SITE: TVA Kingston Fossil
BREAK: 2.2
OTHER:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
Science and Ecosystem Support Division
Enforcement and Investigations Branch
980 College Station Road
Athens, Georgia 30605-2720

January 9, 2009

4SESD-EIB

MEMORANDUM

SUBJECT: TVA-Kingston Plant QAPP
Kingston, TN
SESD Project Numbers 09-0175

FROM: Timothy Simpson, Environmental Scientist
Superfund and Air Section

THRU: Mike Bowden, Chief
Superfund and Air Section

TO: Leslie Sims, OSC
Emergency Response and Removal Branch
Superfund Division

Attached is the final report for the TVA-Kingston Plant Emergency Response. Potable water samples were collected for total metals, dissolved metals, and total suspended solids on December 30, 2008. If you have any questions, please call me at (706) 355-8736.

Attachment

cc: Steve Spurlin

10644910

REGION 4
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
SCIENCE AND ECOSYSTEM SUPPORT DIVISION

Site Investigation Report
TVA-Kingston Plant
Kingston, Roane County, Tennessee
Project Identification Number: 09-0175

On-Scene Coordinator:
Leslie Sims
Superfund Division
61 Forsyth Street, SW
Atlanta, Georgia 30303-8909

SESD Project Leader:
Tim Simpson
Science and Ecosystem Support Division
980 College Station Road
Athens, GA 30605

Project: TVA-Kingston, Kingston, TN
SESD Project Identification Number: 09-0175

Approving Official:

Mike Bowden, Chief, Air and Superfund Section

Signature _____ Date 1/8/09

Project Leader:

Timothy Simpson, Environmental Scientist, Air and Superfund Section

Signature _____ Date 01/08/2009

SAMPLING INVESTIGATION REPORT
TVA-KINGSTON
KINGSTON, TENNESSEE
SESD PROJECT IDENTIFICATION NUMBER 09-0175

Introduction

During the week of December 29, 2008 representatives of the United States Environmental Protection Agency (U.S EPA), Region 4, Science and Ecosystem Support Division (SESD), collected potable water samples from municipal and residential water systems as part of the emergency response at the TVA-Kingston Plant in Kingston, TN. The investigation was requested by Terry Stilman, On-Scene Coordinator, Superfund Division, EPA Region 4, Atlanta, Georgia.

The following personnel participated in the investigations:

Name	Organization	Duties
Tim Simpson	Reg. 4 EPA/SESD	Project Leader, Sampler
Don Fortson	ILS	FORMs, Sampler

Site Background

The TVA-Kingston Plant is located in Roane County, Tennessee. The potable water sampling request was due to the release of wet coal ash from an on-site ash pond. Several million cubic feet of fly ash and water were released on to land adjacent to the plant and into the nearby Clinch and Emory Rivers on Monday, December 22, 2008. The initial release of materials from the plant's retention pond created a tidal wave of water and ash which destroyed several homes and ruptured a major gas line in a neighborhood located adjacent to the plant.

Sampling Investigation Summary

On December 30, 2008, SESD collected potable water samples from 4 residential properties and 3 municipal water treatment facilities. Samples were collected for total metals, dissolved meals, and total suspended solids (TSS) analyses. Samples of the raw untreated intake water and finished treated water were collected from the Kingston, Rockwood, and Cumberland Water Plants.

Prior to sample collection, the potable water was monitored for temperature, specific conductance, pH, and turbidity. The water parameter data are summarized in Table 2. It should be noted that residential sample 993 is not a private well sample. It was determined, after sample collection, that the residential property had been connected to the City of Kingston water system on December 29, 2008.

Analytical data were compared to National Primary Drinking Water Regulations Maximum Contaminant Levels (MCLs). MCLs are defined as the highest level of a contaminant level that is allowed in drinking water. MCLs are enforceable standards.

Sampling and Analytical Methodology

Sample collection activities were in accordance with the SESD Operating Procedure for Potable Water Supply Sampling, SESDPROC-305-R2. Samples collected for dissolved metals were filtered in the field using a disposable 0.45 micron filter.

In addition, the field investigation was conducted in accordance with the following procedures:

- SESDPROC-005-R1, Sample and Evidence Management
- SESDPROC-100-R2, Field pH Measurement
- SESDPROC-101-R2 , Field Specific Conductance
- SESDPROC-102-R2, Field Temperature Measurement
- SESDPROD-103-R2, Field Turbidity
- SESDPROC-110-R2, Global Positioning System
- SESDPROC-010-R3, Logbooks
- SESDPROC-209-R1, Packing, Marking, Labeling, and Shipping of Environmental and Waste Samples

All samples were analyzed at the SESD laboratory in Athens, GA. Analyses were in accordance with the U.S. EPA, Region 4, *Analytical Support Branch Laboratory Operations and Quality Control Manual*, February, 2008. The analytical methods are listed in the Final Analytical Reports in Appendix A.

Analytical Results: Total and Dissolved Metals

Metals data for this investigation are summarized in Tables 3-4. It should be noted that Tables 3-4 summarize the results only for metals with an established MCL. Samples listed in Table 3 were collected at the four residential properties. Samples listed in Table 4 were collected at the three water treatment plants.

The complete SESD laboratory analytical data reports, with all metals data and data qualifiers, are found in Appendix A.

Residential Samples

Metals were not detected above MCLs in any of the samples collected on December 30, 2008. The following metals (with MCLs) were not detected in the samples collected from the residential properties: mercury, arsenic, beryllium, cadmium, selenium, and thallium. Antimony (3.0 ug/L) was detected in sample 1015, but was below the 6.0 ug/L MCL. Sample 1015 also contained chromium. The level of chromium detected (16 ug/L) was below the 100 ug/L MCL. Antimony and chromium were not detected in any other samples collected during the investigation.

Levels of barium ranged from 26 ug/L to 120 ug/L. The levels detected were below the 2000 ug/L MCL. Levels of copper detected ranged from 16J ug/L to 46J ug/L. This is below the copper action level of 1300 ug/L. Levels of lead detected ranged from 1.3 ug/L to 7.2 ug/L. This is below the MCL action level of 15 ug/L.

Water Treatment System Samples

Metals were not detected above MCLs in any of the samples collected on December 30, 2008. The following metals (with MCLs) were not detected in the samples collected from the water treatment systems: mercury, antimony, arsenic, beryllium, cadmium, chromium, lead, selenium, and thallium. Levels of barium detected ranged from 17J to 27 ug/L. The levels detected were below the 2000 ug/L MCL. Levels of copper detected ranged from 11J to 25 ug/L. This is below the copper action level of 1300 ug/L.

Analytical Results: TSS

Total suspended solids were not detected in ten of eleven samples collected. TSS was detected (5.7 mg/L) in residential well sample 1015. It should be noted that there is no MCL for total suspended solids. The complete SESD laboratory analytical data reports for TSS, with all data qualifiers, appears in Appendix A.

Quality Assurance Results

Quality assurance (QA) samples in the form of split samples (samples KWT4AX and KWT4ADX) and a nitric acid preservative blank (sample QAPB1) were collected during the sampling investigations. The analytical results for the split samples compare well with the results reported for the primary sample. The overall close comparison of the two split samples is indicative of good performance by the laboratory.

Metals were not detected in the preservative blank. This indicates that there was no cross contamination from the nitric acid preservative used during the sampling event.

References

1 U.S. EPA, Region 4, SESD, Analytical Support Branch Laboratory Operations and Quality Assurance Manual, February 12, 2008.

DATA TABLES
TVA-KINGSTON
KINGSTON, ROANE COUNTY, TN

TABLE 1
SAMPLE LOCATIONS – TVA-KINGSTON
12/30/2008
TVA-KINGSTON
KINGSTON, ROANE COUNTY, TN

Station ID	Sample ID	Analyses
Residential Sampling Stations		
1015	1015	Total Metals, TSS
	1015D	Dissolved Metals
1007	1007	Total Metals, TSS
	1007D	Dissolved Metals
993	993	Total Metals, TSS
	993D	Dissolved Metals
937	937	Total Metals, TSS
	937D	Dissolved Metals
Kingston Water Treatment Plant		
King1 (Raw Water)	KWT1A	Total Metals, TSS
	KWT1AD	Dissolved Metals
King1 (Treated Water)	KWT2A	Total Metals, TSS
	KWT2AD	Dissolved Metals
Rockwood Water Treatment Plant		
King3 (Raw Water)	KWT3A	Total Metals, TSS
	KWT3AD	Dissolved Metals
King3 (Treated Water)	KWT4A	Total Metals, TSS
	KWT4AX	Total Metals, TSS (Split Sample)
	KWT4AD	Dissolved Metals
	KWT4ADX	Dissolved Metals (Split Sample)
Cumberland Water Treatment Plant		
King5 (Raw Water)	KWT5A	Total Metals, TSS
	KWT5AD	Dissolved Metals
King5 (Treated Water)	KWT6A	Total Metals, TSS
	KWT6AD	Dissolved Metals
Quality Control Sample		
Preservative Blank	QAPB1	Total Metals

TABLE 2
WATER PARAMETERS
12/30/2008
TVA-KINGSTON
KINGSTON, ROANE COUNTY, TN

Station ID	Sample ID	Temperature (Degrees C)	pH (Standard Units)	SpecificConductance (uS/cm)	Turbidity (NTU)
Residential Sampling Stations					
1015	1015	12.4	6.81	307	6.22
1007	1007	15.5	8.31	1212	7.12
993	993	8.8	7.19	239	0.51
937	937	13.6	7.40	395	0.83
Kingston Water Treatment Plant					
King1	KWT1A	10.9	7.37	180.5	6.94
King1	KWT2A	10.5	7.29	199.1	0.17
Rockwood Water Treatment Plant					
King3	KWT3A	9.5	7.87	206.7	2.79
King3	KWT4A KWT4AX	10.7	7.1	219	0.32
Cumberland Water Treatment Plant					
King5	KWT5A	8.9	7.16	111.4	8.73
King5	KWT6A	10.2	6.74	127.5	0.28

TABLE 3
METALS DATA
RESIDENTIAL PROPERTIES
12/30/2008
TVA-KINGSTON
KINGSTON, ROAN COUNTY, TN

Station ID	Sample ID	Mercury (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Beryllium (ug/L)	Cadmium (ug/L)	Chromium (ug/L)	Copper (ug/L)	Lead (ug/L)	Selenium (ug/L)	Thallium (ug/L)
	MCL	**2**	**6**	**10**	**2000**	**4**	**5**	**100**	**1300***	**15***	**50**	**2**
1015	1015	0.10U	3.0	1.0U	69	3.0U	0.5U	16	32J	7.2	2.0U	1.0U
	1015D	0.10U	1.0U	1.0U	73	3.0U	0.5U	5.0U	10U	1.0U	2.0U	1.0U
1007	1007	0.10U	1.0U	1.0U	73	3.0U	0.50U	5.0U	16J	1.0U	2.0U	1.0U
	1007D	0.10U	1.0U	1.0U	71	3.0U	0.50U	5.0U	10U	1.0U	2.0U	1.0U
993**	993	0.10U	1.0U	1.0U	26	3.0U	0.50U	5.0U	46J	2.4	2.0U	1.0U
	993D	0.10U	1.0U	1.0U	26	3.0U	0.50U	5.0U	41 J	1.3	2.0U	1.0U
937	937	0.10U	1.0U	1.0U	120	3.0U	0.50U	5.0U	10U	1.0U	2.0U	1.0U
	937D	0.10U	1.0U	1.0U	120	3.0U	0.50U	5.0U	10U	10U	2.0U	1.0U

U - The analyte was not detected at or above the reporting limit.
J - The identification of the analyte is acceptable; the reported value is an estimate.
* The MCLs for copper and lead are regulated by a treatment technique that requires systems to control the corrosiveness of their water. The action level for copper is 1300 ug/L. The action level for lead is 15 ug/L.
** - City of Kingston water system.

TABLE 4
METALS DATA
MUNICIPAL TREATMENT FACILITIES
12/30/2008
TVA-KINGSTON
KINGSTON, ROAN COUNTY, TN

Station ID	Sample ID	Mercury (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Barium (ug/L)	Beryllium (ug/L)	Cadmium (ug/L)	Chromium (ug/L)	Copper (ug/L)	Lead (ug/L)	Selenium (ug/L)	Thallium (ug/L)
	MCL	2	6	10	2000	4	5	100	1300*	15*	50	2
King1	KWT1A	0.10U	1.0U	1.0U	19J	3.0U	0.50U	5.0U	11J	1.0U	2.0U	1.0U
	KWTIAD	0.10U	1.0U	1.0U	18J	3.0U	0.50U	5.0U	10U	1.0U	2.0U	1.0U
	KWT2A	0.10U	1.0U	1.0U	17J	3.0U	0.50U	5.0U	11J	1.0U	2.0U	1.0U
	KWT2AD	0.10U	1.0U	1.0U	17J	3.0U	0.50U	5.0U	12J	1.0U	2.0U	1.0U
King3	KWT3A	0.10U	1.0U	1.0U	27	3.0U	0.50U	5.0U	10U	1.0U	2.0U	1.0U
	KWT3AD	0.10U	1.0U	1.0U	23	3.0U	0.50U	5.0U	10U	1.0U	2.0U	1.0U
	KWT4A	0.10U	1.0U	1.0U	27	3.0U	0.50U	5.0U	10U	1.0U	2.0U	1.0U
	KWT4AX	0.10U	1.0U	1.0U	25	3.0U	0.50U	5.0U	10U	1.0U	2.0U	1.0U
	KWT4AD	0.10U	1.0U	1.0U	25	3.0U	0.50U	5.0U	10U	1.0U	2.0U	1.0U
	KWT4ADX	0.10U	1.0U	1.0U	26	3.0U	0.50U	5.0U	10U	1.0U	2.0U	1.0U
King5	KWT5A	0.10U	1.0U	1.0U	22	3.0U	0.50U	5.0U	25	1.0U	2.0U	1.0U
	KWT5AD	0.10U	1.0U	1.0U	20	3.0U	0.50U	5.0U	22	1.0U	2.0U	1.0U
	KWT6A	0.10U	1.0U	1.0U	22	3.0U	0.50U	5.0U	10U	1.0U	2.0U	1.0U
	KWT6AD	0.10U	1.0U	1.0U	21	3.0U	0.50U	5.0U	10U	1.0U	2.0U	1.0U

U - The analyte was not detected at or above the reporting limit.
J - The identification of the analyte is acceptable; the reported value is an estimate.
* The MCLs for copper and lead are regulated by a treatment technique that requires systems to control the corrosiveness of their water. The action level for copper is 1300 ug/L. The action level for lead is 15 ug/L.

APPENDIX A
ANALYTICAL DATA REPORTS
TVA-KINGSTON
KINGSTON, ROANE COUNTY, TN

Metals Analytical Data Reports (09-0175) (27 Total Pages)
TSS Analytical Data Reports (09-0175) (15 Total Pages)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

January 7, 2009

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 09-0175, TVA Kingston Fossil Plant
Superfund Remedial

FROM: Jenny Scifres
ASB Inorganic Chemistry Section Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Timothy Simpson

This report is being reissued to correct sample descriptive information that was not accepted by the Region 4 Data Archival and ReTrieval (D.A.R.T.) system. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Total Metals (TMTL)	
Total Mercury	EPA 245.1
Total Metals	EPA 200.7
Total Metals	EPA 200.8

Report Narrative for Work Order E085301, Project: 09-0175

01/02/09 JS Metals: Some of the dissolved metals are slightly higher than totals for the same station ID.

01/06/09 JS Metals: Report reissued for sample ID corrections for DART. No laboratory results were changed.

01/07/09 JS Metals: Report reissued for sample ID corrections for DART. No laboratory results were changed.

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 90 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 90-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 90-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 90 days

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

SAMPLES INCLUDED IN THIS REPORT

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
QAPB1	E085301-01	Preservative Blank	12/30/08 17:35	12/31/08 10:03
1007	E085301-02	Potable Water	12/30/08 09:20	12/31/08 10:03
1007D	E085301-03	Potable Water	12/30/08 09:20	12/31/08 10:03
1015	E085301-04	Potable Water	12/30/08 11:23	12/31/08 10:03
1015D	E085301-05	Potable Water	12/30/08 11:23	12/31/08 10:03
937	E085301-06	Potable Water	12/30/08 10:56	12/31/08 10:03
937D	E085301-07	Potable Water	12/30/08 10:56	12/31/08 10:03
993	E085301-08	Potable Water	12/30/08 10:14	12/31/08 10:03
993D	E085301-09	Potable Water	12/30/08 10:14	12/31/08 10:03
KWT1A	E085301-10	Potable Water	12/30/08 14:30	12/31/08 10:03
KWT1AD	E085301-11	Potable Water	12/30/08 14:30	12/31/08 10:03
KWT2A	E085301-12	Potable Water	12/30/08 14:48	12/31/08 10:03
KWT2AD	E085301-13	Potable Water	12/30/08 14:48	12/31/08 10:03
KWT3A	E085301-14	Potable Water	12/30/08 17:25	12/31/08 10:03
KWT3AD	E085301-15	Potable Water	12/30/08 17:25	12/31/08 10:03
KWT4A	E085301-16	Potable Water	12/30/08 17:05	12/31/08 10:03
KWT4AD	E085301-17	Potable Water	12/30/08 17:05	12/31/08 10:03
KWT4ADX	E085301-18	Potable Water	12/30/08 17:05	12/31/08 10:03
KWT4AX	E085301-19	Potable Water	12/30/08 17:05	12/31/08 10:03
KWT5A	E085301-20	Potable Water	12/30/08 16:02	12/31/08 10:03
KWT5AD	E085301-21	Potable Water	12/30/08 16:02	12/31/08 10:03
KWT6A	E085301-22	Potable Water	12/30/08 16:10	12/31/08 10:03
KWT6AD	E085301-23	Potable Water	12/30/08 16:10	12/31/08 10:03

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QR-1	MRL verification recovery less than lower control limits.
QR-2	MRL verification recovery greater than upper control limits.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: QAPB1 **Lab ID:** E085301-01

Station ID: **Matrix:** Preservative Blank

Date Collected: 12/30/08 17:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	12/31/08	12/31/08	EPA 245.1
7429-90-5	Aluminum	100 U, J, QR-1		ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	5.0 U, J, QR-1		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	250 U		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	250 U		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	1000 U		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	1000 U		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U, J, QR-1		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: 1007
Station ID: 1007

Lab ID: E085301-02
Matrix: Potable Water

Date Collected: 12/30/08 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10	U	ug/L	0.10	12/31/08	12/31/08	EPA 245.1
7429-90-5	Aluminum	100	U, J, QR-1	ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	73		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	21000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	16	J, QR-2	ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	120		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	7800		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	7.6		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	2900		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	230000		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	340		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0	U, J, QR-1	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	15		ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: 1007D
Station ID: 1007

Lab ID: E085301-03
Matrix: Potable Water

Date Collected: 12/30/08 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	12/31/08	12/31/08	EPA 245.1
7429-90-5	Aluminum	100 U, J, QR-1		ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	71		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	18000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	7800		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	3100		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	240000		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	330		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U, J, QR-1		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: 1015
Station ID: 1015

Lab ID: E085301-04
Matrix: Potable Water

Date Collected: 12/30/08 11:23

CAS Number	Analyte	Results, Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U	ug/L	0.10	12/31/08	12/31/08	EPA 245.1
7429-90-5	Aluminum	100 U, J, QR-1	ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	3.0	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	69	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U	ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	28000	ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	16	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	32 J, QR-2	ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	1000	ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	7.2	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	8000	ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	580	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U	ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	3200	ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U	ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	15000	ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	400	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U	ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U, J, QR-1	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	48	ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: 1015D
Station ID: 1015

Lab ID: E085301-05
Matrix: Potable Water

Date Collected: 12/30/08 11:23

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10	U	ug/L	0.10	12/31/08	12/31/08	EPA 245.1
7429-90-5	Aluminum	100	U, J, QR-1	ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	73		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	30000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10	U	ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	480		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	8700		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	610		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	3400		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	16000		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	430		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0	U, J, QR-1	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	45		ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: 937
Station ID: 937

Lab ID: E085301-06
Matrix: Potable Water

Date Collected: 12/30/08 10:56

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	12/31/08	12/31/08	EPA 245.1
7429-90-5	Aluminum	100	U, J, QR-1	ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	120		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	57000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	8200		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	29		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	2100		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	11000		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	360		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U	J, QR-1	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: 937D
Station ID: 937

Lab ID: E085301-07
Matrix: Potable Water

Date Collected: 12/30/08 10:56

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10	U	ug/L	0.10	12/31/08	12/31/08	EPA 245.1
7429-90-5	Aluminum	100	U, J, QR-1	ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	120		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	56000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10	U	ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100	U	ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	7900		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	23		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	2100		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	12000		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	360		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0	U, J, QR-1	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	10	U	ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: 993
Station ID: 993

Lab ID: E085301-08
Matrix: Potable Water

Date Collected: 12/30/08 10:14

CAS Number	Analyte	Results, Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U	ug/L	0.10	12/31/08	12/31/08	EPA 245.1
7429-90-5	Aluminum	100 U, J, QR-1	ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	26	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U	ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	23000	ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	46 J, QR-2	ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U	ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	2.4	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	6900	ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	5.0 U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U	ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	2300	ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U	ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	9200	ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	67	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U	ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U, J, QR-1	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	42	ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: 993D
Station ID: 993

Lab ID: E085301-09
Matrix: Potable Water

Date Collected: 12/30/08 10:14

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	12/31/08	12/31/08	EPA 245.1
7429-90-5	Aluminum	100	U, J, QR-1	ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	26		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	23000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	41	J, QR-2	ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.3		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	7100		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	2200		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	9100		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	66		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U	J, QR-1	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	39		ug/L	10	12/31/08	1/01/09	EPA 200.7

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D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT1A
Station ID: KING1
Lab ID: E085301-10
Matrix: Potable Water
Date Collected: 12/30/08 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	12/31/08	12/31/08	EPA 245.1
7429-90-5	Aluminum	210 J	QR-1	ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	19 J	QR-1	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	18000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	11 J	QR-2	ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	260		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	4400		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	38		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	2300		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	10000		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	67		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U, J	QR-1	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	31		ug/L	10	12/31/08	1/01/09	EPA 200.7

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D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT1AD
Station ID: KING1

Lab ID: E085301-11
Matrix: Potable Water

Date Collected: 12/30/08 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	12/31/08	12/31/08	EPA 245.1
7429-90-5	Aluminum	100 U, J, QR-1		ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	18 J, QR-1		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	18000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	4200		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	5.9		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	2300		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	10000		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	66		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U, J, QR-1		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	25		ug/L	10	12/31/08	1/01/09	EPA 200.7

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D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT2A
Station ID: KING1

Lab ID: E085301-12
Matrix: Potable Water

Date Collected: 12/30/08 14:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10	U	ug/L	0.10	1/01/09	1/01/09	EPA 245.1
7429-90-5	Aluminum	100	U, J, QR-1	ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	17	J, QR-1	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	17000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	11	J, QR-2	ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100	U	ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	4100		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	2100		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	14000		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	63		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0	U, J, QR-1	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	10	U	ug/L	10	12/31/08	1/01/09	EPA 200.7

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D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT2AD
Station ID: KING1

Lab ID: E085301-13
Matrix: Potable Water

Date Collected: 12/30/08 14:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	1/01/09	1/01/09	EPA 245.1
7429-90-5	Aluminum	100	U, J, QR-1	ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	17	J, QR-1	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	17000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	12	J, QR-2	ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	4300		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	2200		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	14000		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	65		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U	J, QR-1	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT3A
Station ID: KING3

Lab ID: E085301-14
Matrix: Potable Water

Date Collected: 12/30/08 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	1/01/09	1/01/09	EPA 245.1
7429-90-5	Aluminum	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	27		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	21000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	6700		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	8.4		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	1800		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	7600		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	64		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	26		ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT3AD
Station ID: KING3

Lab ID: E085301-15
Matrix: Potable Water

Date Collected: 12/30/08 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10	U	ug/L	0.10	1/01/09	1/01/09	EPA 245.1
7429-90-5	Aluminum	100	U	ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	23		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50	U	ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	22000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10	U	ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100	U	ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	7000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10	U	ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	2000		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0	U	ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	7700		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	66		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0	U	ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	25		ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT4A
Station ID: KING3

Lab ID: E085301-16
Matrix: Potable Water

Date Collected: 12/30/08 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	1/01/09	1/01/09	EPA 245.1
7429-90-5	Aluminum	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	27		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	23000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	7300		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	1900		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	8700		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	67		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	23		ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT4AD
Station ID: KING3

Lab ID: E085301-17
Matrix: Potable Water

Date Collected: 12/30/08 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	1/01/09	1/01/09	EPA 245.1
7429-90-5	Aluminum	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	25		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	22000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	7200		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	2100		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	8500		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	65		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	23		ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT4ADX
Station ID: KING3

Lab ID: E085301-18
Matrix: Potable Water

Date Collected: 12/30/08 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	1/01/09	1/01/09	EPA 245.1
7429-90-5	Aluminum	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	26		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	22000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	7100		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	1800		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	8400		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	63		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	24		ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT4AX
Station ID: KING3

Lab ID: E085301-19
Matrix: Potable Water

Date Collected: 12/30/08 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	1/01/09	1/01/09	EPA 245.1
7429-90-5	Aluminum	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	25		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	22000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	7300		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	1800		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	8400		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	65		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	23		ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT5A
Station ID: KING5

Lab ID: E085301-20
Matrix: Potable Water

Date Collected: 12/30/08 16:02

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	1/01/09	1/01/09	EPA 245.1
7429-90-5	Aluminum	360		ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	22		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	10000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	25		ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	410		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	4200		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	45		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	1300		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	2700		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	29		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	9.4		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 09-0175
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Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT5AD
Station ID: KING5

Lab ID: E085301-21
Matrix: Potable Water

Date Collected: 12/30/08 16:02

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	1/01/09	1/01/09	EPA 245.1
7429-90-5	Aluminum	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	20		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	10000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	22		ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	4200		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	43		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	1300		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	2800		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	29		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7

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Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT6A
Station ID: KING5

Lab ID: E085301-22
Matrix: Potable Water

Date Collected: 12/30/08 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	1/01/09	1/01/09	EPA 245.1
7429-90-5	Aluminum	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	22		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	11000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	4300		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	36		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	1400		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	6200		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	29		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	13		ug/L	10	12/31/08	1/01/09	EPA 200.7

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Total Metals

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT6AD
Station ID: KING5

Lab ID: E085301-23
Matrix: Potable Water

Date Collected: 12/30/08 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10 U		ug/L	0.10	1/01/09	1/01/09	EPA 245.1
7429-90-5	Aluminum	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7440-36-0	Antimony	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-38-2	Arsenic	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-39-3	Barium	21		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-41-7	Beryllium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-43-9	Cadmium	0.50 U		ug/L	0.50	12/31/08	1/01/09	EPA 200.8
7440-70-2	Calcium	10000		ug/L	250	12/31/08	1/01/09	EPA 200.7
7440-47-3	Chromium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-48-4	Cobalt	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-50-8	Copper	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7439-89-6	Iron	100 U		ug/L	100	12/31/08	1/01/09	EPA 200.7
7439-92-1	Lead	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7439-95-4	Magnesium	4200		ug/L	250	12/31/08	1/01/09	EPA 200.7
7439-96-5	Manganese	36		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7439-98-7	Molybdenum	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-02-0	Nickel	10 U		ug/L	10	12/31/08	1/01/09	EPA 200.7
7440-09-7	Potassium	1300		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7782-49-2	Selenium	2.0 U		ug/L	2.0	12/31/08	1/01/09	EPA 200.8
7440-22-4	Silver	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-23-5	Sodium	6000		ug/L	1000	12/31/08	1/01/09	EPA 200.7
7440-24-6	Strontium	28		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-28-0	Thallium	1.0 U		ug/L	1.0	12/31/08	1/01/09	EPA 200.8
7440-31-5	Tin	15 U		ug/L	15	12/31/08	1/01/09	EPA 200.7
7440-32-6	Titanium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-62-2	Vanadium	5.0 U		ug/L	5.0	12/31/08	1/01/09	EPA 200.7
7440-65-5	Yttrium	3.0 U		ug/L	3.0	12/31/08	1/01/09	EPA 200.7
7440-66-6	Zinc	14		ug/L	10	12/31/08	1/01/09	EPA 200.7

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Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

January 6, 2009

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 09-0175, TVA Kingston Fossil Plant
Superfund Remedial

FROM: Jenny Scifres
ASB Inorganic Chemistry Section Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Timothy Simpson

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:
Classical/Nutrient Analyses (CNA)	
Solids	SM 2540D

Report Narrative for Work Order E085301, Project: 09-0175

01/02/09 JS Metals: Some of the dissolved metals are slightly higher than totals for the same station ID.

01/06/09 JS Metals: Report reissued for sample ID corrections for DART. No laboratory results were changed.

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 90 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 90-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 90-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 90 days

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
1007	E085301-02	Potable Water	12/30/08 09:20	12/31/08 10:03
1015	E085301-04	Potable Water	12/30/08 11:23	12/31/08 10:03
937	E085301-06	Potable Water	12/30/08 10:56	12/31/08 10:03
993	E085301-08	Potable Water	12/30/08 10:14	12/31/08 10:03
KWT1A	E085301-10	Potable Water	12/30/08 14:30	12/31/08 10:03
KWT2A	E085301-12	Potable Water	12/30/08 14:48	12/31/08 10:03
KWT3A	E085301-14	Potable Water	12/30/08 17:25	12/31/08 10:03
KWT4A	E085301-16	Potable Water	12/30/08 17:05	12/31/08 10:03
KWT4AX	E085301-19	Potable Water	12/30/08 17:05	12/31/08 10:03
KWT5A	E085301-20	Potable Water	12/30/08 16:02	12/31/08 10:03
KWT6A	E085301-22	Potable Water	12/30/08 16:10	12/31/08 10:03

DATA QUALIFIER DEFINITIONS

U The analyte was not detected at or above the reporting limit.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Classical/Nutrient Analyses

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: 1007
Station ID: 1007

Lab ID: E085301-02
Matrix: Potable Water

Date Collected: 12/30/08 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642818	Total Suspended Solids	4.0	U	mg/L	4.0	12/31/08	12/31/08	SM 2540D

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Classical/Nutrient Analyses

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: 1015
Station ID: 1015

Lab ID: E085301-04
Matrix: Potable Water

Date Collected: 12/30/08 11:23

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642818	Total Suspended Solids	5.7		mg/L	4.0	12/31/08	12/31/08	SM 2540D

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Classical/Nutrient Analyses

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: 937
Station ID: 937

Lab ID: E085301-06
Matrix: Potable Water

Date Collected: 12/30/08 10:56

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642818	Total Suspended Solids	4.0	U	mg/L	4.0	12/31/08	12/31/08	SM 2540D

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Classical/Nutrient Analyses

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: 993
Station ID: 993

Lab ID: E085301-08
Matrix: Potable Water

Date Collected: 12/30/08 10:14

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642818	Total Suspended Solids	4.0	U	mg/L	4.0	12/31/08	12/31/08	SM 2540D

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Classical/Nutrient Analyses

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT1A
Station ID: KING1

Lab ID: E085301-10
Matrix: Potable Water

Date Collected: 12/30/08 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642818	Total Suspended Solids	4.0	U	mg/L	4.0	12/31/08	12/31/08	SM 2540D

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Classical/Nutrient Analyses

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT2A
Station ID: KING1

Lab ID: E085301-12
Matrix: Potable Water

Date Collected: 12/30/08 14:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642818	Total Suspended Solids	4.0	U	mg/L	4.0	12/31/08	12/31/08	SM 2540D

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Classical/Nutrient Analyses

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT3A
Station ID: KING3

Lab ID: E085301-14
Matrix: Potable Water

Date Collected: 12/30/08 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642818	Total Suspended Solids	4.0	U	mg/L	4.0	12/31/08	12/31/08	SM 2540D

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 09-0175
Project: 09-0175, TVA Kingston Fossil Plant - Reported by Jenny Scifres

Classical/Nutrient Analyses

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT4A
Station ID: KING3

Lab ID: E085301-16
Matrix: Potable Water

Date Collected: 12/30/08 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642818	Total Suspended Solids	4.0	U	mg/L	4.0	12/31/08	12/31/08	SM 2540D

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Classical/Nutrient Analyses

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT4AX
Station ID: KING3

Lab ID: E085301-19
Matrix: Potable Water

Date Collected: 12/30/08 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642818	Total Suspended Solids	4.0	U	mg/L	4.0	12/31/08	12/31/08	SM 2540D

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Classical/Nutrient Analyses

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT5A
Station ID: KING5

Lab ID: E085301-20
Matrix: Potable Water

Date Collected: 12/30/08 16:02

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642818	Total Suspended Solids	4.0	U	mg/L	4.0	12/31/08	12/31/08	SM 2540D

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Classical/Nutrient Analyses

Project: 09-0175, TVA Kingston Fossil Plant

Sample ID: KWT6A
Station ID: KING5

Lab ID: E085301-22
Matrix: Potable Water

Date Collected: 12/30/08 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642818	Total Suspended Solids	4.0	U	mg/L	4.0	12/31/08	12/31/08	SM 2540D