

July 7, 2003

Mr. Larry F. Cook, Jr.
Solid Waste Field Supervisor
Knoxville Environmental Field Office
Division of Solid Waste Management
Tennessee Department of Environment
and Conservation
2700 Middlebrook Pike, Suite 220
Knoxville, Tennessee 37921-5602

TENNESSEE VALLEY AUTHORITY (TVA) – KINGSTON FOSSIL PLANT (KIF) – ASH
DISPOSAL AREA – IDL 73-0094 – GROUNDWATER MONITORING DATA

Dear Mr. Cook:

Please find enclosed semiannual groundwater monitoring data collected between December 2000 and January 2003 at designated monitoring wells surrounding the subject facility (Enclosures 1 through 5). Data for each semiannual sampling event are presented in a separate enclosure containing the following information:

5. A table summarizing sample analytical results for the 17 required Appendix I inorganic constituents along with measured groundwater elevations at each well measured prior to sampling.
6. The laboratory analytical report for groundwater samples.
7. A copy of the sample custody record.
8. A groundwater potentiometric surface map based on water level measurements made in monitoring wells prior to sampling.

Overall, sampling results for the December 2000 to January 2003 period indicate that none of the constituent concentrations observed in any of the monitoring well samples exceeded maximum contaminant limits (MCL).

As discussed at our May 28, 2002 meeting with you and your staff, we plan to perform two years of quarterly baseline monitoring of the facility beginning in June 2003. These data will be used to establish statistical testing methods and limits for the groundwater detection monitoring program scheduled to commence in June 2005.

I certify this information was prepared by a system designed to ensure qualified personnel properly gathered and evaluated the information submitted. The information submitted is to the best of my knowledge and belief true, accurate, and complete.

Mr. Larry F. Cook, Jr.
Page 2
July 7, 2003

If you have any questions, please call Amos Smith in Chattanooga at (423) 751-3522 or Linda Campbell at (865) 717-2157.

Gordon G. Park
Manager, Permitted Programs
Environmental Affairs
5D Lookout Place

ALS:SMF
Enclosures
cc (Enclosures):

J. M. Boggs, LAB 2C-N
E. L. Deskins, KFP 1A-KST
J. D. Milligan, HB 2A-C
J. W. Shipp, MR 2T-C
B. B. Walton, ET 11A-K (w/o Enclosures)
EDMS, EB 5G-C

Prepared by J. Mark Boggs, reviewed by Amos L. Smith

Q:\media\files\solid waste\general\Kif_data_report_jun03 als.doc



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

July 7, 2003

Mr. Larry F. Cook, Jr.
Solid Waste Field Supervisor
Knoxville Environmental Field Office
Division of Solid Waste Management
Tennessee Department of Environment
and Conservation
2700 Middlebrook Pike, Suite 220
Knoxville, Tennessee 37921-5602

**TENNESSEE VALLEY AUTHORITY (TVA) – KINGSTON FOSSIL PLANT (KIF) – ASH
DISPOSAL AREA – IDL 73-0094 – GROUNDWATER MONITORING DATA**

Dear Mr. Cook:

Please find enclosed semiannual groundwater monitoring data collected between December 2000 and January 2003 at designated monitoring wells surrounding the subject facility (Enclosures 1 through 5). Data for each semiannual sampling event are presented in a separate enclosure containing the following information:

1. A table summarizing sample analytical results for the 17 required Appendix I inorganic constituents along with measured groundwater elevations at each well measured prior to sampling.
2. The laboratory analytical report for groundwater samples.
3. A copy of the sample custody record.
4. A groundwater potentiometric surface map based on water level measurements made in monitoring wells prior to sampling.

Overall, sampling results for the December 2000 to January 2003 period indicate that none of the constituent concentrations observed in any of the monitoring well samples exceeded maximum contaminant limits (MCL).

As discussed at our May 28, 2002 meeting with you and your staff, we plan to perform two years of quarterly baseline monitoring of the facility beginning in June 2003. These data will be used to establish statistical testing methods and limits for the groundwater detection monitoring program scheduled to commence in June 2005.

I certify this information was prepared by a system designed to ensure qualified personnel properly gathered and evaluated the information submitted. The information submitted is to the best of my knowledge and belief true, accurate, and complete.

Mr. Larry F. Cook, Jr.

Page 2

July 7, 2003

If you have any questions, please call Amos Smith in Chattanooga at (423) 751-3522 or Linda Campbell at (865) 717-2157.

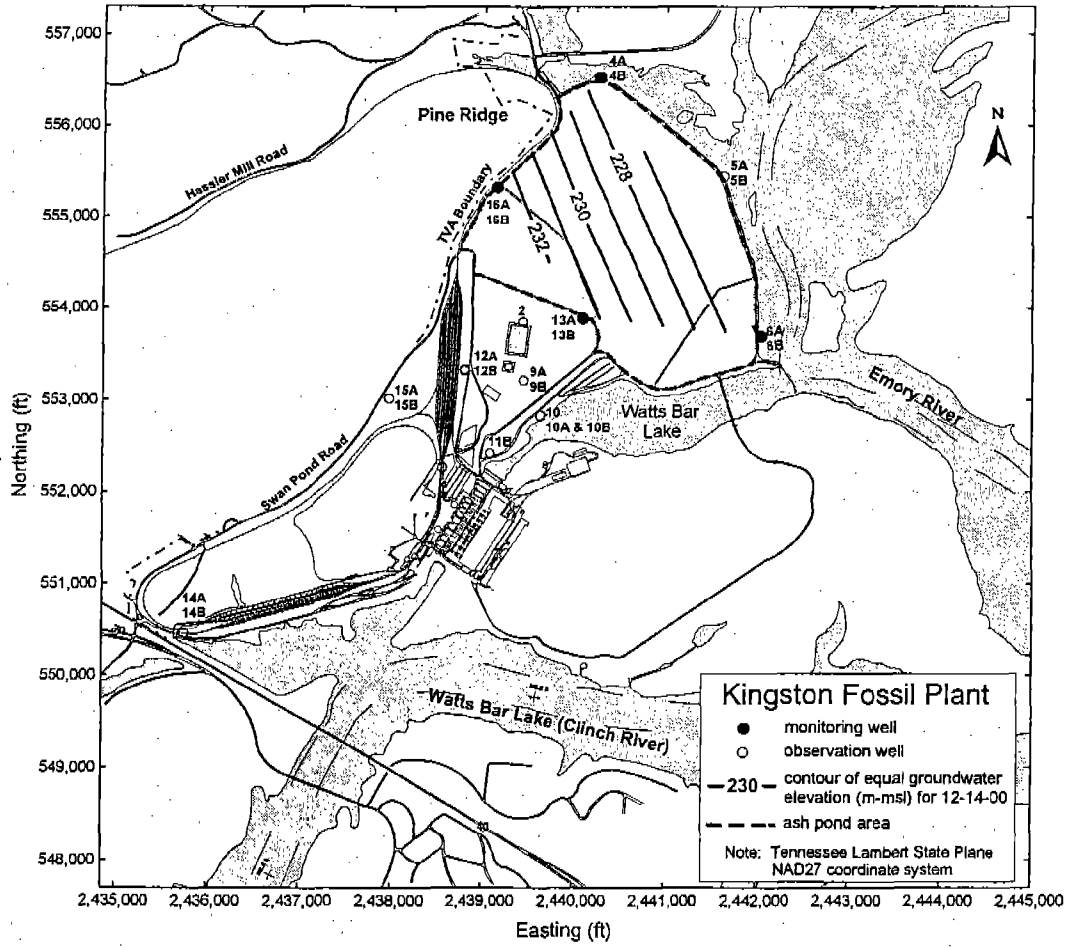
Gordon G. Park

Gordon G. Park
Manager, Permitted Programs
Environmental Affairs
5D Lookout Place

Enclosures

ENCLOSURE 1

**Kingston Fossil Plant
Ash Disposal Area (IDL 73-0094)
December 2000 Groundwater Monitoring Data**



Kingston Fossil Plant							EPA	Comparison			
December 14, 2000 Groundwater Samples							MCL	to MCL			
Analytical Results for Appendix I Inorganic Constituents								L = less than			
								G = greater than			
Constituent	Units	Well No.				EPA MCL	Well No.				
		4B	6A	13B	16A ^b		4B	6A	13B	16A	
		downgradient	downgradient	downgradient	upgradient						
Antimony	µg/L	<2	<2	<2	<2	6	L	L	L	L	
Arsenic	µg/L	2	3	<1	<1	50	L	L	L	L	
Barium	µg/L	160	34	280	52	2,000	L	L	L	L	
Beryllium	µg/L	<1	<1	<1	<1	4	L	L	L	L	
Cadmium	µg/L	<0.1	0.83	<0.1	<0.1	5	L	L	L	L	
Chromium	µg/L	2.7	1.7	<1	<1	100	L	L	L	L	
Cobalt	µg/L	5.8	2.2	<1	<1	--	--	--	--	--	
Copper	µg/L	<10	10	<10	<10	1,000	L	L	L	L	
Fluoride	µg/L	160	<100	200	460	4,000	L	L	L	L	
Lead	µg/L	6.5	6.2	<1	<1	50	L	L	L	L	
Mercury	µg/L	<0.2	<0.2	<0.2	<0.2	2	L	L	L	L	
Nickel	µg/L	27	2	1	2.5	--	--	--	--	--	
Selenium	µg/L	<1	<1	<1	<1	50	L	L	L	L	
Silver	µg/L	<10	<10	<10	<10	100	L	L	L	L	
Thallium	µg/L	<2	<2	<2	<2	2	L	L	L	L	
Vanadium	µg/L	<10	<10	<10	<10	--	--	--	--	--	
Zinc	µg/L	28	32	<10	<10	5,000	L	L	L	L	
Water Level Elev.	m-msl	227.37	225.9	231.55	232.76						
<i>a - method detection limit</i>											
<i>b - reported concentrations are averages of duplicate samples.</i>											
<i>c - assumed UPL equal to 90th percentile of TVA valley-wide groundwater measurements</i>											

GW?
RCRA
1088

TENNESSEE VALLEY AUTHORITY WATER MANAGEMENT
ENVIRONMENTAL CHEMISTRY ANALYSIS REQUEST AND CUSTODY RECORD

FORM CONTROL # 17875

PROJECT ID KINGSTON GROUND WATER

LAB USE ONLY

TEST IDC'S #ICPW1, #ICPW2, DIGICP, SBW, ASW, CDW, CRW, COW, PBW, NIW, SEW, TLW, DIGHGA, HGW, DIGCVA, K-W, NAW, OLW, FLW, SO4W, #TSS, #TDS, TICW

DATE RECEIVED 12/20/00 DAYS DUE 1/5/01

PROJECT LEADER SRA LIF=00120150 NO. LABELS 3

REFERENCE: WORKPLAN OTHER

ACCT NO. _____

DATE REQUIRED _____

RESULTS TO _____

LAB USE ONLY	FIELD ID	SAMPLE DESCRIPTION	SAMPLE MATRIX	DATE/TIME COLLECTED	NO. OF BOTTLES	ADDITIONAL IDC'S
<u>13812</u>	<u>KSW-4B-1214-MP</u>	<u>GROUND WATER</u>	<u>H2O</u>	<u>12/14/00</u>	<u>3</u>	
<u>13813</u>	<u>KSW-6A-1214</u>	<u>"</u>	<u>"</u>	<u>1650</u>	<u>3</u>	
<u>13814</u>	<u>KSW-13B-1214</u>	<u>"</u>	<u>"</u>	<u>1505</u>	<u>3</u>	
<u>13815</u>	<u>KSW-16A-1214.D1</u>	<u>"</u>	<u>"</u>	<u>1555</u>	<u>3</u>	
<u>13816</u>	<u>KSW-16A-1214.D2</u>	<u>"</u>	<u>"</u>	<u>1555</u>	<u>3</u>	
<u>13817</u>	<u>EQUIPMENT BLANK</u>	<u>Super Q Alum Perist. Pump</u>	<u>"</u>	<u>1645</u>	<u>3</u>	

FIELD COMMENTS _____

ANALYSIS REQUESTED per workplan M, MIN, TIC

SUBMITTED BY [Signature] DATE/TIME _____ LABORATORY COMMENTS _____

RECEIVED BY _____ DATE/TIME _____

DISTRIBUTION OF COPIES
1 - LABORATORY 2 - RETURN TO REQUESTOR 3 - RETAINED BY REQUESTOR

TVA 30488 (RG-WM 3-94)

ADP
PAGE 1 OF 1


**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**
**1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

 Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

 Customer Address: Mark Boggs, LAB 2C-N
Charles McEntyre, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Location Code: KIF-4B

Field ID: Kingston Well 4B-1214-MP

Sample Description: GROUNDWATER

Sample ID: AA13812

LRF ID: 00120150

Matrix: Water

Reg: RCRA

Date Collected: 12/14/2000

Time Collected: 16:29 EST

Date Received: 12/20/2000

Time Received: 12:49

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis	Analysis	Analyst	Method
					Date	Time		Reference
Aluminum, Total	7429-90-5	1.6	mg/L	0.05	12/22/2000	18:11	WEB	EPA 6010B
Antimony, Total	7440-36-0	< MDL	mg/L	0.002	01/11/2001	1:50	ALP	EPA 7041A
Arsenic, Total	7440-38-2	0.002	mg/L	0.001	01/04/2001	19:19	ALP	EPA 7060A
Barium, Total	7440-39-3	0.16	mg/L	0.01	12/22/2000	18:11	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	12/22/2000	18:11	WEB	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	12/22/2000	18:11	WEB	EPA 6010B
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	01/05/2001	21:21	ALP	EPA 7131A
Calcium, Total	7440-70-2	130	mg/L	0.1	12/22/2000	18:11	WEB	EPA 6010B
Chloride, Total	16887-00-6	9.	mg/L	1.	01/05/2001	13:43	GMP	EPA 325.2
Chromium, Total	7440-47-3	0.0027	mg/L	0.001	01/03/2001	13:37	ALP	EPA 7191
Cobalt, Total	7440-48-4	0.0058	mg/L	0.001	01/08/2001	15:29	ALP	EPA 7201
Copper, Total	7440-50-8	< MDL	mg/L	0.01	12/22/2000	18:11	WEB	EPA 6010B
Filterable Residue		610.	mg/L	10.	12/20/2000	8:46	HTH	EPA 160.1
Fluoride, Total	16984-48-8	0.16	mg/L	0.1	12/21/2000	13:24	GMP	EPA 340.2
Inorganic Carbon, Total		23.	mg/L	1.	12/28/2000	10:16	ALB	ASTM477988
Iron, Total	7439-89-6	3.2	mg/L	0.01	12/22/2000	18:11	WEB	EPA 6010B
Lead, Total	7439-92-1	0.0065	mg/L	0.001	01/04/2001	10:20	ALP	EPA 7421
Magnesium, Total	7439-95-4	11	mg/L	0.01	12/22/2000	18:11	WEB	EPA 6010B
Manganese, Total	7439-96-5	7.4	mg/L	0.005	12/22/2000	18:11	WEB	EPA 6010B
Mercury, Total	7439-97-6	< MDL	mg/L	0.0002	01/02/2001	16:30	ALB	EPA 7470A
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	12/22/2000	18:11	WEB	EPA 6010B
Nickel, Total	7440-02-0	0.027	mg/L	0.001	01/04/2001	16:17	ALP	EPA 7521
Non-Filterable Residue		29.	mg/L	1.	12/21/2000	9:09	HTH	EPA 160.2
Potassium, Total	7440-09-7	8.1	mg/L	0.1	01/04/2001	17:53	ALP	EPA 7610
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/05/2001	9:52	ALP	EPA 7740
Silver, Total	7440-22-4	< MDL	mg/L	0.01	12/22/2000	18:11	WEB	EPA 6010B
Sodium, Total	7440-23-5	2.4	mg/L	0.1	01/04/2001	15:53	ALP	EPA 7770
Strontium, Total	7440-24-6	0.25	mg/L	0.05	12/22/2000	18:11	WEB	EPA 6010B
Sulfate, Total	14808-79-8	270.	mg/L	1.	01/10/2001	13:14	GMP	EPA 375.4
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/10/2001	8:51	ALP	EPA 7841
Tin, Total	7440-31-5	< MDL	mg/L	0.05	12/22/2000	18:11	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	12/22/2000	18:11	WEB	EPA 6010B
Zinc, Total	7440-66-6	0.028	mg/L	0.01	12/22/2000	18:11	WEB	EPA 6010B



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**

**1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

**Data Report Number 030501-10070
Report of Result STANDARD**

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, LAB 2C-N
Charles McEntyre, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Location Code: KIF-4B

Field ID: Kingston Well 4B-1214-MP

Sample Description: GROUNDWATER

Sample ID: AA13812 **LRF ID:** 00120150

Matrix: Water **Reg:** RCRA

Date Collected: 12/14/2000

Time Collected: 16:29 EST

Date Received: 12/20/2000

Time Received: 12:49

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
---------	-------------------------	--------	-------	------------------	---------------	---------------	---------	------------------

Sample Comments: Latitude:
Longitude:



TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
 1101 Market Street, PSC 1B-C
 Chattanooga, Tennessee 37402-2801

Shipping Address:
 Chickamauga Power Service Center
 North Side Chickamauga Reservation
 Chattanooga, Tennessee 37415

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Customer Address: Mark Boggs, LAB 2C-N
 Charles McEntyre, CST17B-C
 Phone: Debbie Nunn, HB 2A-C
 Fax : Not Available
 E-Mail: Not Available

Sample ID: AA13813 LRF ID: 00120150
 Matrix: Water Reg: RCRA
 Date Collected: 12/14/2000
 Time Collected: 16:50 EST
 Date Received: 12/20/2000
 Time Received: 12:49
 Project Manager: Scott R. McNabb

Location Code: KIF-6A

Field ID: Kingston Well 6A-1214

Sample Description: GROUNDWATER

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	0.20	mg/L	0.05	12/22/2000	18:14	WEB	EPA 6010B
Antimony, Total	7440-36-0	< MDL	mg/L	0.002	01/11/2001	1:57	ALP	EPA 7041A
Arsenic, Total	7440-38-2	0.003	mg/L	0.001	01/04/2001	19:37	ALP	EPA 7060A
Barium, Total	7440-39-3	0.034	mg/L	0.01	12/22/2000	18:14	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	12/22/2000	18:14	WEB	EPA 6010B
Boron, Total	7440-42-8	0.51	mg/L	0.2	12/22/2000	18:14	WEB	EPA 6010B
Cadmium, Total	7440-43-9	0.00083	mg/L	0.0001	01/05/2001	21:27	ALP	EPA 7131A
Calcium, Total	7440-70-2	210	mg/L	0.1	12/22/2000	18:14	WEB	EPA 6010B
Chloride, Total	16887-00-6	8.	mg/L	1.	01/05/2001	13:43	GMP	EPA 325.2
Chromium, Total	7440-47-3	0.0017	mg/L	0.001	01/03/2001	13:43	ALP	EPA 7191
Cobalt, Total	7440-48-4	0.0022	mg/L	0.001	01/08/2001	15:35	ALP	EPA 7201
Copper, Total	7440-50-8	0.01	mg/L	0.01	12/22/2000	18:14	WEB	EPA 6010B
Filterable Residue		1000.	mg/L	10.	12/20/2000	8:47	HTH	EPA 160.1
Fluoride, Total	16984-48-8	< MDL	mg/L	0.1	12/21/2000	13:24	GMP	EPA 340.2
Inorganic Carbon, Total		17.	mg/L	1.	12/28/2000	10:23	ALB	ASTM477988
Iron, Total	7439-89-6	120	mg/L	0.01	12/22/2000	18:14	WEB	EPA 6010B
Lead, Total	7439-92-1	0.0062	mg/L	0.001	01/04/2001	10:27	ALP	EPA 7421
Magnesium, Total	7439-95-4	26	mg/L	0.01	12/22/2000	18:14	WEB	EPA 6010B
Manganese, Total	7439-96-5	23	mg/L	0.005	12/22/2000	18:14	WEB	EPA 6010B
Mercury, Total	7439-97-6	< MDL	mg/L	0.0002	01/02/2001	16:37	ALB	EPA 7470A
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	12/22/2000	18:14	WEB	EPA 6010B
Nickel, Total	7440-02-0	0.002	mg/L	0.001	01/04/2001	16:23	ALP	EPA 7521
Non-Filterable Residue		24.	mg/L	1.	12/21/2000	9:10	HTH	EPA 160.2
Potassium, Total	7440-09-7	18	mg/L	0.1	01/04/2001	17:55	ALP	EPA 7610
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/05/2001	9:58	ALP	EPA 7740
Silver, Total	7440-22-4	< MDL	mg/L	0.01	12/22/2000	18:14	WEB	EPA 6010B
Sodium, Total	7440-23-5	8.4	mg/L	0.1	01/04/2001	15:54	ALP	EPA 7770
Strontium, Total	7440-24-6	1.3	mg/L	0.05	12/22/2000	18:14	WEB	EPA 6010B
Sulfate, Total	14808-79-8	520.	mg/L	1.	01/10/2001	13:14	GMP	EPA 375.4
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/10/2001	2:42	ALP	EPA 7841
Tin, Total	7440-31-5	0.072	mg/L	0.05	12/22/2000	18:14	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	12/22/2000	18:14	WEB	EPA 6010B
Zinc, Total	7440-66-6	0.032	mg/L	0.01	12/22/2000	18:14	WEB	EPA 6010B



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Data Report Number 030501-10070
Report of Result STANDARD

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, LAB 2C-N
Charles McEntyre, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Location Code: KIF-6A

Field ID: Kingston Well 6A-1214

Sample Description: GROUNDWATER

Sample ID: AA13813 LRF ID: 00120150

Matrix: Water Reg: RCRA

Date Collected: 12/14/2000

Time Collected: 16:50 EST

Date Received: 12/20/2000

Time Received: 12:49

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
---------	-------------------------	--------	-------	------------------	---------------	---------------	---------	------------------

Sample Comments: Latitude:
Longitude:
Strontium value corrected 11/28/2001.



**TENNESSEE VALLEY AUTHORITY
 CENTRAL LABORATORIES SERVICES
 1101 Market Street, PSC 1B-C
 Chattanooga, Tennessee 37402-2801**

Shipping Address:
 Chickamauga Power Service Center
 North Side Chickamauga Reservation
 Chattanooga, Tennessee 37415

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Customer Address: Mark Boggs, LAB 2C-N
 Charles McEntyre, CST17B-C
 Phone: Debbie Nunn, HB 2A-C
 Fax : Not Available
 E-Mail: Not Available

Sample ID: AA13814 LRF ID: 00120150
 Matrix: Water Reg: RCRA
 Date Collected: 12/14/2000
 Time Collected: 15:05 EST
 Date Received: 12/20/2000
 Time Received: 12:49
 Project Manager: Scott R. McNabb

Location Code: KIF-13B

Field ID: Kingston Well 13B-1214

Sample Description: GROUNDWATER

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	< MDL	mg/L	0.05	12/22/2000	18:21	WEB	EPA 6010B
Antimony, Total	7440-36-0	< MDL	mg/L	0.002	01/11/2001	2:04	ALP	EPA 7041A
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	01/04/2001	19:40	ALP	EPA 7060A
Barium, Total	7440-39-3	0.28	mg/L	0.01	12/22/2000	18:21	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	12/22/2000	18:21	WEB	EPA 6010B
Boron, Total	7440-42-8	0.28	mg/L	0.2	12/22/2000	18:21	WEB	EPA 6010B
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	01/05/2001	21:33	ALP	EPA 7131A
Calcium, Total	7440-70-2	11	mg/L	0.1	12/22/2000	18:21	WEB	EPA 6010B
Chloride, Total	16887-00-6	2.	mg/L	1.	01/05/2001	13:43	GMP	EPA 325.2
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/03/2001	13:49	ALP	EPA 7191
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	01/08/2001	15:38	ALP	EPA 7201
Copper, Total	7440-50-8	< MDL	mg/L	0.01	12/22/2000	18:21	WEB	EPA 6010B
Filterable Residue		220.	mg/L	10.	12/20/2000	8:48	HTH	EPA 160.1
Fluoride, Total	16984-48-8	0.20	mg/L	0.1	12/21/2000	13:24	GMP	EPA 340.2
Inorganic Carbon, Total		43.	mg/L	1.	12/28/2000	10:30	ALB	ASTM477988
Iron, Total	7439-89-6	0.05	mg/L	0.01	12/22/2000	18:21	WEB	EPA 6010B
Lead, Total	7439-92-1	< MDL	mg/L	0.001	01/10/2001	8:59	ALP	EPA 7421
Magnesium, Total	7439-95-4	1.7	mg/L	0.01	12/22/2000	18:21	WEB	EPA 6010B
Manganese, Total	7439-96-5	0.054	mg/L	0.005	12/22/2000	18:21	WEB	EPA 6010B
Mercury, Total	7439-97-6	< MDL	mg/L	0.0002	01/02/2001	16:39	ALB	EPA 7470A
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	12/22/2000	18:21	WEB	EPA 6010B
Nickel, Total	7440-02-0	0.001	mg/L	0.001	01/04/2001	16:29	ALP	EPA 7521
Non-Filterable Residue		< MDL	mg/L	1.	12/21/2000	9:10	HTH	EPA 160.2
Potassium, Total	7440-09-7	2.6	mg/L	0.1	01/04/2001	17:56	ALP	EPA 7610
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/05/2001	10:05	ALP	EPA 7740
Silver, Total	7440-22-4	< MDL	mg/L	0.01	12/22/2000	18:21	WEB	EPA 6010B
Sodium, Total	7440-23-5	75	mg/L	0.1	01/04/2001	15:55	ALP	EPA 7770
Strontium, Total	7440-24-6	0.24	mg/L	0.05	12/22/2000	18:21	WEB	EPA 6010B
Sulfate, Total	14808-79-8	4.	mg/L	1.	01/10/2001	13:14	GMP	EPA 375.4
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/10/2001	9:04	ALP	EPA 7841
Tin, Total	7440-31-5	< MDL	mg/L	0.05	12/22/2000	18:21	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	12/22/2000	18:21	WEB	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	12/22/2000	18:21	WEB	EPA 6010B

¹ Chemical Abstracts Service Registry Number ² Method Detection Limit



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Data Report Number 030501-10070

Report of Result STANDARD

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, LAB 2C-N
Charles McEntyre, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Location Code: KIF-13B

Field ID: Kingston Well 13B-1214

Sample Description: GROUNDWATER

Sample ID: AA13814

LRF ID: 00120150

Matrix: Water

Reg: RCRA

Date Collected: 12/14/2000

Time Collected: 15:05 EST

Date Received: 12/20/2000

Time Received: 12:49

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
---------	-------------------------	--------	-------	------------------	---------------	---------------	---------	------------------

Sample Comments: Latitude:
Longitude:
Strontium value corrected 11/28/2001.
Barium value was confirmed through
redigestion and reanalysis.



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Data Report Number 030501-10070

Report of Result STANDARD

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, LAB 2C-N
Charles McEntyre, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Sample ID: AA13815 LRF ID: 00120150
Matrix: Water Reg: RCRA
Date Collected: 12/14/2000
Time Collected: 15:55 EST
Date Received: 12/20/2000
Time Received: 12:49
Project Manager: Scott R. McNabb

Location Code: KIF-16A

Field ID: Kingston Well 16A-1214D1

Sample Description: GROUNDWATER

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	0.10	mg/L	0.05	12/22/2000	18:28	WEB	EPA 6010B
Antimony, Total	7440-36-0	< MDL	mg/L	0.002	01/11/2001	2:10	ALP	EPA 7041A
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	01/04/2001	19:47	ALP	EPA 7060A
Barium, Total	7440-39-3	0.052	mg/L	0.01	12/22/2000	18:28	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	12/22/2000	18:28	WEB	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	12/22/2000	18:28	WEB	EPA 6010B
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	01/05/2001	21:39	ALP	EPA 7131A
Calcium, Total	7440-70-2	47	mg/L	0.1	12/22/2000	18:28	WEB	EPA 6010B
Chloride, Total	16887-00-6	1.	mg/L	1.	01/05/2001	13:43	GMP	EPA 325.2
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/03/2001	13:55	ALP	EPA 7191
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	01/08/2001	15:42	ALP	EPA 7201
Copper, Total	7440-50-8	< MDL	mg/L	0.01	12/22/2000	18:28	WEB	EPA 6010B
Filterable Residue		240.	mg/L	10.	12/20/2000	8:41	HTH	EPA 160.1
Fluoride, Total	16984-48-8	0.46	mg/L	0.1	12/21/2000	13:24	GMP	EPA 340.2
Inorganic Carbon, Total		37.	mg/L	1.	12/28/2000	10:37	ALB	ASTM477988
Iron, Total	7439-89-6	0.91	mg/L	0.01	12/22/2000	18:28	WEB	EPA 6010B
Lead, Total	7439-92-1	< MDL	mg/L	0.001	01/04/2001	10:39	ALP	EPA 7421
Magnesium, Total	7439-95-4	10	mg/L	0.01	12/22/2000	18:28	WEB	EPA 6010B
Manganese, Total	7439-96-5	1.4	mg/L	0.005	12/22/2000	18:28	WEB	EPA 6010B
Mercury, Total	7439-97-6	< MDL	mg/L	0.0002	01/02/2001	16:41	ALB	EPA 7470A
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	12/22/2000	18:28	WEB	EPA 6010B
Nickel, Total	7440-02-0	0.001	mg/L	0.001	01/04/2001	16:35	ALP	EPA 7521
Non-Filterable Residue		3.	mg/L	1.	12/21/2000	9:11	HTH	EPA 160.2
Potassium, Total	7440-09-7	2.3	mg/L	0.1	01/04/2001	17:57	ALP	EPA 7610
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/05/2001	10:11	ALP	EPA 7740
Silver, Total	7440-22-4	< MDL	mg/L	0.01	12/22/2000	18:28	WEB	EPA 6010B
Sodium, Total	7440-23-5	15	mg/L	0.1	01/04/2001	15:57	ALP	EPA 7770
Strontium, Total	7440-24-6	0.30	mg/L	0.05	12/22/2000	18:28	WEB	EPA 6010B
Sulfate, Total	14808-79-8	50.	mg/L	1.	01/10/2001	13:14	GMP	EPA 375.4
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/10/2001	9:11	ALP	EPA 7841
Tin, Total	7440-31-5	< MDL	mg/L	0.05	12/22/2000	18:28	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	12/22/2000	18:28	WEB	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	12/22/2000	18:28	WEB	EPA 6010B

Data Report Number 030501-10070
Report of Result STANDARD



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Phone: (423) 876 - 4318 - Fax: (423) 876 - 4137

Customer Address: Mark Boggs, LAB 2C-N
Charles McEntyre, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Location Code: KIF-16A

Field ID: Kingston Well 16A-1214D1

Sample Description: GROUNDWATER

Sample ID: AA13815 **LRF ID:** 00120150

Matrix: Water **Reg:** RCRA

Date Collected: 12/14/2000

Time Collected: 15:55 EST

Date Received: 12/20/2000

Time Received: 12:49

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
---------	-------------------------	--------	-------	------------------	---------------	---------------	---------	------------------

Sample Comments: Latitude:
Longitude:
Strontium value corrected 11/28/2001.



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Data Report Number 030501-10070
Report of Result STANDARD

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, LAB 2C-N
Charles McEntyre, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Sample ID: AA13816 LRF ID: 00120150
Matrix: Water Reg: RCRA
Date Collected: 12/14/2000
Time Collected: 15:55 EST
Date Received: 12/20/2000
Time Received: 12:49
Project Manager: Scott R. McNabb

Location Code: KIF-16A

Field ID: Kingston Well 16A-1214D2

Sample Description: GROUNDWATER

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	0.11	mg/L	0.05	12/22/2000	18:30	WEB	EPA 6010B
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	01/11/2001	2:17	ALP	EPA 7041A
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	01/04/2001	19:53	ALP	EPA 7060A
Barium, Total	7440-39-3	0.052	mg/L	0.01	12/22/2000	18:30	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	12/22/2000	18:30	WEB	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	12/22/2000	18:30	WEB	EPA 6010B
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	01/05/2001	21:45	ALP	EPA 7131A
Calcium, Total	7440-70-2	47	mg/L	0.1	12/22/2000	18:30	WEB	EPA 6010B
Chloride, Total	16887-00-6	1.	mg/L	1.	01/05/2001	13:43	GMP	EPA 325.2
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/03/2001	14:01	ALP	EPA 7191
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	01/08/2001	15:45	ALP	EPA 7201
Copper, Total	7440-50-8	< MDL	mg/L	0.01	12/22/2000	18:30	WEB	EPA 6010B
Filterable Residue		230.	mg/L	10.	12/20/2000	8:44	HTH	EPA 160.1
Fluoride, Total	16984-48-8	0.46	mg/L	0.1	12/21/2000	13:24	GMP	EPA 340.2
Inorganic Carbon, Total		37.	mg/L	1.	12/28/2000	10:44	ALB	ASTM477988
Iron, Total	7439-89-6	0.95	mg/L	0.01	12/22/2000	18:30	WEB	EPA 6010B
Lead, Total	7439-92-1	< MDL	mg/L	0.001	01/10/2001	9:06	ALP	EPA 7421
Magnesium, Total	7439-95-4	10	mg/L	0.01	12/22/2000	18:30	WEB	EPA 6010B
Manganese, Total	7439-96-5	1.4	mg/L	0.005	12/22/2000	18:30	WEB	EPA 6010B
Mercury, Total	7439-97-6	< MDL	mg/L	0.0002	01/02/2001	16:44	ALB	EPA 7470A
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	12/22/2000	18:30	WEB	EPA 6010B
Nickel, Total	7440-02-0	0.004	mg/L	0.001	01/04/2001	16:42	ALP	EPA 7521
Non-Filterable Residue		3.	mg/L	1.	12/21/2000	9:12	HTH	EPA 160.2
Potassium, Total	7440-09-7	2.3	mg/L	0.1	01/04/2001	17:59	ALP	EPA 7610
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/05/2001	10:17	ALP	EPA 7740
Silver, Total	7440-22-4	< MDL	mg/L	0.01	12/22/2000	18:30	WEB	EPA 6010B
Sodium, Total	7440-23-5	15	mg/L	0.1	01/04/2001	15:58	ALP	EPA 7770
Strontium, Total	7440-24-6	0.30	mg/L	0.05	12/22/2000	18:30	WEB	EPA 6010B
Sulfate, Total	14808-79-8	45.	mg/L	1.	01/10/2001	13:14	GMP	EPA 375.4
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/10/2001	9:18	ALP	EPA 7841
Tin, Total	7440-31-5	< MDL	mg/L	0.05	12/22/2000	18:30	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	12/22/2000	18:30	WEB	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	12/22/2000	18:30	WEB	EPA 6010B



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Data Report Number 030501-10070
Report of Result STANDARD

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, LAB 2C-N
Charles McEntyre, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Location Code: KIF-16A

Field ID: Kingston Well 16A-1214D2

Sample Description: GROUNDWATER

Sample ID: AA13816 **LRF ID:** 00120150

Matrix: Water **Reg:** RCRA

Date Collected: 12/14/2000

Time Collected: 15:55 EST

Date Received: 12/20/2000

Time Received: 12:49

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
---------	-------------------------	--------	-------	------------------	---------------	---------------	---------	------------------

Sample Comments: Latitude:
Longitude:
Strontium value corrected 11/28/2001.



TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
 1101 Market Street, PSC 1B-C
 Chattanooga, Tennessee 37402-2801

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:
 Chickamauga Power Service Center
 North Side Chickamauga Reservation
 Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, LAB 2C-N
 Charles McEntyre, CST17B-C
 Phone: Not Available
 Fax : Not Available
 E-Mail: Not Available

Sample ID: AA13817 LRF ID: 00120150
 Matrix: Water Reg: RCRA
 Date Collected: 12/14/2000
 Time Collected: 16:45 EST
 Date Received: 12/20/2000
 Time Received: 12:49
 Project Manager: Scott R. McNabb

Location Code: KIF

Field ID: EQUIPMENT BLANK

Sample Description: SUPER Q THRU PERIST PUMP

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	< MDL	mg/L	0.05	12/22/2000	18:33	WEB	EPA 6010B
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	01/05/2001	10:12	ALP	EPA 7041A
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	01/04/2001	19:57	ALP	EPA 7060A
Barium, Total	7440-39-3	< MDL	mg/L	0.01	12/22/2000	18:33	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	12/22/2000	18:33	WEB	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	12/22/2000	18:33	WEB	EPA 6010B
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	01/05/2001	21:52	ALP	EPA 7131A
Calcium, Total	7440-70-2	< MDL	mg/L	0.1	12/22/2000	18:33	WEB	EPA 6010B
Chloride, Total	16887-00-6	< MDL	mg/L	1.	01/05/2001	13:43	GMP	EPA 325.2
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/03/2001	14:07	ALP	EPA 7191
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	01/08/2001	15:48	ALP	EPA 7201
Copper, Total	7440-50-8	< MDL	mg/L	0.01	12/22/2000	18:33	WEB	EPA 6010B
Filterable Residue		< MDL	mg/L	10.	12/20/2000	8:45	HTH	EPA 160.1
Fluoride, Total	16984-48-8	< MDL	mg/L	0.1	12/21/2000	13:24	GMP	EPA 340.2
Inorganic Carbon, Total		< MDL	mg/L	1.	12/28/2000	10:51	ALB	ASTM477988
Iron, Total	7439-89-6	< MDL	mg/L	0.01	12/22/2000	18:33	WEB	EPA 6010B
Lead, Total	7439-92-1	< MDL	mg/L	0.001	01/04/2001	10:52	ALP	EPA 7421
Magnesium, Total	7439-95-4	< MDL	mg/L	0.01	12/22/2000	18:33	WEB	EPA 6010B
Manganese, Total	7439-96-5	< MDL	mg/L	0.005	12/22/2000	18:33	WEB	EPA 6010B
Mercury, Total	7439-97-6	< MDL	mg/L	0.0002	01/02/2001	16:46	ALB	EPA 7470A
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	12/22/2000	18:33	WEB	EPA 6010B
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	01/04/2001	16:48	ALP	EPA 7521
Non-Filterable Residue		< MDL	mg/L	1.	12/21/2000	9:13	HTH	EPA 160.2
Potassium, Total	7440-09-7	< MDL	mg/L	0.1	01/04/2001	18:00	ALP	EPA 7610
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/05/2001	10:23	ALP	EPA 7740
Silver, Total	7440-22-4	< MDL	mg/L	0.01	12/22/2000	18:33	WEB	EPA 6010B
Sodium, Total	7440-23-5	< MDL	mg/L	0.1	01/04/2001	15:59	ALP	EPA 7770
Strontium, Total	7440-24-6	< MDL	mg/L	0.05	12/22/2000	18:33	WEB	EPA 6010B
Sulfate, Total	14808-79-8	< MDL	mg/L	1.	01/10/2001	13:14	GMP	EPA 375.4
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/10/2001	9:25	ALP	EPA 7841
Tin, Total	7440-31-5	< MDL	mg/L	0.05	12/22/2000	18:33	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	12/22/2000	18:33	WEB	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	12/22/2000	18:33	WEB	EPA 6010B



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Data Report Number 030501-10070
Report of Result STANDARD

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, LAB 2C-N
Charles McEntyre, CST17B-C
Phone: Not Available
Fax : Not Available
E-Mail: Not Available

Location Code: KIF

Field ID: EQUIPMENT BLANK

Sample Description: SUPER Q THRU PERIST PUMP

Sample ID: AA13817 LRF ID: 00120150

Matrix: Water Reg: RCRA

Date Collected: 12/14/2000

Time Collected: 16:45 EST

Date Received: 12/20/2000

Time Received: 12:49

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
---------	-------------------------	--------	-------	------------------	---------------	---------------	---------	------------------

Sample Comments: None

Central Laboratories Services data report number 030501-100704 was electronically approved using Labworks

Enterprise Version 4.6, Build 253 on 04/30/2002 at 17:25 by Scott R. McNabb

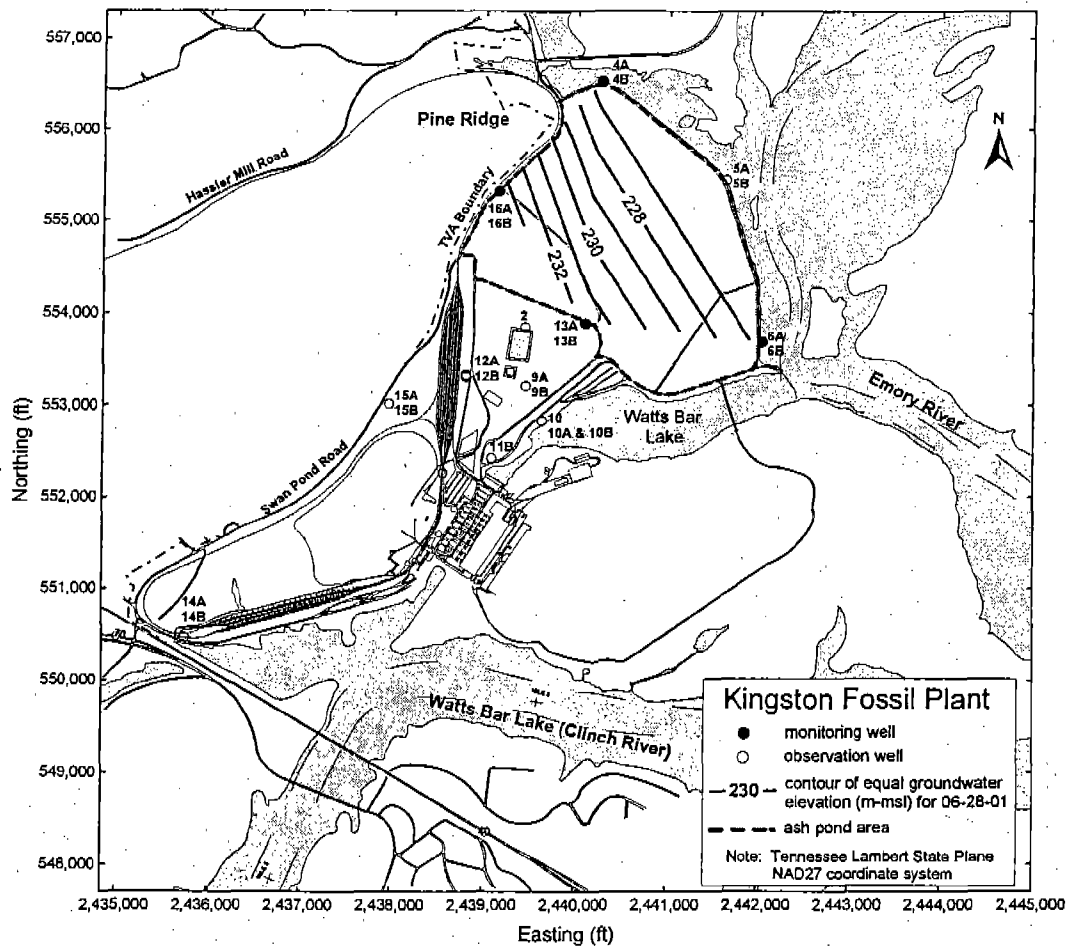
Vanessa L. Ramey, Lab Director
Pamela L. Whitt, Product Manager
David M. Varnell, Product Manager
Ricardo I. Gilbert, Senior Analytical Chemist

This report contains sample results for the following samples, Login Reference File number: 00120150

AA13812
AA13813
AA13814
AA13815
AA13816
AA13817

ENCLOSURE 2

**Kingston Fossil Plant
Ash Disposal Area (IDL 73-0094)
June 2001 Groundwater Monitoring Data**



Kingston Fossil Plant						EPA	Comparison			
June 28, 2001 Groundwater Samples						MCL	to MCL			
Analytical Results for Appendix I Inorganic Constituents							L = less than			
							G = greater than			
Constituent	Units	Well No.					Well No.			
		4B	6A	13B	16A ^b		4B	6A	13B	16A
		downgradient	downgradient	downgradient	upgradient					
Antimony	µg/L	<1	<1	<1	<1	6	L	L	L	L
Arsenic	µg/L	<1	<1	<1	<1	50	L	L	L	L
Barium	µg/L	56	51	290	59	2,000	L	L	L	L
Beryllium	µg/L	<1	<1	<1	<1	4	L	L	L	L
Cadmium	µg/L	0.18	2.2	<0.1	<0.14	5	L	L	L	L
Chromium	µg/L	<1	<1	<1	<1	100	L	L	L	L
Cobalt	µg/L	11	5.6	<1	<1	--	--	--	--	--
Copper	µg/L	12	<10	<10	<10	1,000	L	L	L	L
Fluoride	µg/L	160	<100	190	455	4,000	L	L	L	L
Lead	µg/L	<1	15	<1	<1.5	50	L	L	L	L
Mercury	µg/L	<0.2	<0.2	<0.2	<0.2	2	L	L	L	L
Nickel	µg/L	2	<1	<1	<1	--	--	--	--	--
Selenium	µg/L	<1	<1	<1	<1	50	L	L	L	L
Silver	µg/L	<10	<10	<10	<10	100	L	L	L	L
Thallium	µg/L	<2	<2	<2	<2	2	L	L	L	L
Vanadium	µg/L	<10	<10	<10	<10	--	--	--	--	--
Zinc	µg/L	11	56	<10	<10.5	5,000	L	L	L	L
Water Level Elev.	m-msl	225.5	225.79	231.65	233.51					
<i>a - method detection limit</i>										
<i>b - reported concentrations are averages of duplicate samples.</i>										
<i>c - assumed UPL equal to 90th percentile of TVA valley-wide groundwater measurements</i>										



TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
 1101 Market Street, CC 1A-C
 Chattanooga, Tennessee 37402-2801

Customer Address: Mark Boggs, LAB 2C-N
 Jack Milligan, CST17B-C
 Phone: Debbie Nunn, HB 2A-C
 Fax : Not Available
 E-Mail: Wells

Location Code: KIF-4B

Field ID: Kingston Well 4B

Sample Description: KSW-4B-062801-MP

Sample ID: AB06590

LRF ID: 01070020

Matrix: Water

Reg: RCRA

Date Collected: 06/28/2001

Time Collected: 10:51 EST

Date Received: 07/03/2001

Time Received: 9:12

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	0.33	mg/L	0.05	07/12/2001	16:08	WEB	EPA 6010B
Calcium, Total	7440-70-2	230	mg/L	0.1	07/12/2001	16:08	WEB	EPA 6010B
Copper, Total	7440-50-8	0.012	mg/L	0.01	07/12/2001	16:08	WEB	EPA 6010B
Iron, Total	7439-89-6	1.0	mg/L	0.01	07/12/2001	16:08	WEB	EPA 6010B
Magnesium, Total	7439-95-4	20	mg/L	0.01	07/12/2001	16:08	WEB	EPA 6010B
Manganese, Total	7439-96-5	1.2	mg/L	0.005	07/12/2001	16:08	WEB	EPA 6010B
Zinc, Total	7440-66-6	0.011	mg/L	0.01	07/12/2001	16:08	WEB	EPA 6010B
Barium, Total	7440-39-3	0.056	mg/L	0.01	07/12/2001	16:08	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	07/12/2001	16:08	WEB	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	07/12/2001	16:08	WEB	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	07/12/2001	16:08	WEB	EPA 6010B
Silicon, Total	7440-21-3	8.4	mg/L	0.02	07/12/2001	16:08	WEB	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	07/12/2001	16:08	WEB	EPA 6010B
Strontium, Total	7440-24-6	< MDL	mg/L	0.05	07/12/2001	16:08	WEB	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	07/12/2001	16:08	WEB	EPA 6010B
Titanium, Total	7440-32-6	0.0096	mg/L	0.005	07/12/2001	16:08	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	07/12/2001	16:08	WEB	EPA 6010B
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	07/11/2001	19:45	ALP	EPA 7060A
Cadmium, Total	7440-43-9	0.00018	mg/L	0.0001	07/18/2001	9:25	ALP	EPA 7131A
Chloride, Total	16887-00-6	4.	mg/L	1.	07/25/2001	11:35	GMP	EPA 325.2
Cobalt, Total	7440-48-4	0.011	mg/L	0.001	07/20/2001	10:47	ALP	EPA 7201
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	07/11/2001	20:05	ALP	EPA 7191
Fluoride, Total	16984-48-8	0.16	mg/L	0.1	07/26/2001	14:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0002	07/10/2001	13:00	ALB	EPA 7470A
Potassium, Total	7440-09-7	11	mg/L	0.1	07/06/2001	13:51	ALP	EPA 7610
Sodium, Total	7440-23-5	6.4	mg/L	0.1	07/06/2001	11:56	ALP	EPA 7770
Nickel, Total	7440-02-0	0.002	mg/L	0.001	07/10/2001	13:08	ALP	EPA 7521
Lead, Total	7439-92-1	< MDL	mg/L	0.001	07/10/2001	9:42	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	07/11/2001	15:02	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	07/13/2001	10:14	ALP	EPA 7740
Sulfate, Total	14808-79-8	580.	mg/L	1.	07/10/2001	12:00	GMP	EPA 375.4
Filterable Residue		1000.	mg/L	10.	07/03/2001	10:00	ADP	EPA 160.1
Inorganic Carbon, Total		70.	mg/L	1.	07/17/2001	14:13	ALB	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	07/22/2001	19:09	ALP	EPA 7841
Non-Filterable Residue		10.	mg/L	1.	07/03/2001	9:46	ADP	EPA 160.2



**TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
1101 Market Street, CC 1A-C
Chattanooga, Tennessee 37402-2801**

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Wells

Location Code: KIF-4B

Field ID: Kingston Well 4B

Sample Description: KSW-4B-062801-MP

Sample ID: AB06590 **LRF ID:** 01070020

Matrix: Water **Reg:** RCRA

Date Collected: 06/28/2001

Time Collected: 10:51 EST

Date Received: 07/03/2001

Time Received: 9:12

Project Manager: Scott R. McNabb

<u>Analyte</u>	<u>CAS Number¹</u>	<u>Result</u>	<u>Units</u>	<u>MDL²</u>	<u>Analysis Date</u>	<u>Analysis Time</u>	<u>Analyst</u>	<u>Method Reference</u>
----------------	-------------------------------	---------------	--------------	------------------------	----------------------	----------------------	----------------	-------------------------

Sample Comments: Latitude:
Longitude:



TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
 1101 Market Street, CC 1A-C
 Chattanooga, Tennessee 37402-2801

Customer Address: Mark Boggs, LAB 2C-N
 Jack Milligan, CST17B-C
 Phone: Debbie Nunn, HB 2A-C
 Fax : Not Available
 E-Mail: Wells

Sample ID: AB06591 LRF ID: 01070020
 Matrix: Water Reg: RCRA
 Date Collected: 06/28/2001
 Time Collected: 14:51 EST
 Date Received: 07/03/2001
 Time Received: 9:12
 Project Manager: Scott R. McNabb

Location Code: KIF-6A

Field ID: Kingston Well 6A

Sample Description: KSW-6A-062801

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis	Analysis	Analyst	Method
					Date	Time		Reference
Aluminum, Total	7429-90-5	0.085	mg/L	0.05	07/12/2001	16:10	WEB	EPA 6010B
Calcium, Total	7440-70-2	250	mg/L	0.1	07/12/2001	16:10	WEB	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	07/12/2001	16:10	WEB	EPA 6010B
Iron, Total	7439-89-6	160	mg/L	0.01	07/12/2001	16:10	WEB	EPA 6010B
Magnesium, Total	7439-95-4	34	mg/L	0.01	07/12/2001	16:10	WEB	EPA 6010B
Manganese, Total	7439-96-5	39	mg/L	0.005	07/12/2001	16:10	WEB	EPA 6010B
Zinc, Total	7440-66-6	0.056	mg/L	0.01	07/12/2001	16:10	WEB	EPA 6010B
Barium, Total	7440-39-3	0.051	mg/L	0.01	07/12/2001	16:10	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	07/12/2001	16:10	WEB	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	07/12/2001	16:10	WEB	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	07/12/2001	16:10	WEB	EPA 6010B
Silicon, Total	7440-21-3	17	mg/L	0.02	07/12/2001	16:10	WEB	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	07/12/2001	16:10	WEB	EPA 6010B
Strontium, Total	7440-24-6	< MDL	mg/L	0.05	07/12/2001	16:10	WEB	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	07/12/2001	16:10	WEB	EPA 6010B
Titanium, Total	7440-32-6	0.0065	mg/L	0.005	07/12/2001	16:10	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	07/12/2001	16:10	WEB	EPA 6010B
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	07/11/2001	19:52	ALP	EPA 7060A
Cadmium, Total	7440-43-9	0.0022	mg/L	0.0001	07/18/2001	9:31	ALP	EPA 7131A
Chloride, Total	16887-00-6	7.	mg/L	1.	07/25/2001	11:35	GMP	EPA 325.2
Cobalt, Total	7440-48-4	0.0056	mg/L	0.001	07/20/2001	10:53	ALP	EPA 7201
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	07/11/2001	20:11	ALP	EPA 7191
Fluoride, Total	16984-48-8	< 0.1	mg/L	0.1	07/26/2001	14:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0002	07/10/2001	13:00	ALB	EPA 7470A
Potassium, Total	7440-09-7	20	mg/L	0.1	07/06/2001	13:52	ALP	EPA 7610
Sodium, Total	7440-23-5	8.9	mg/L	0.1	07/06/2001	11:58	ALP	EPA 7770
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	07/10/2001	13:13	ALP	EPA 7521
Lead, Total	7439-92-1	0.015	mg/L	0.001	07/10/2001	9:47	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	07/11/2001	15:08	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	07/23/2001	11:06	ALP	EPA 7740
Sulfate, Total	14808-79-8	1300.	mg/L	1.	07/10/2001	12:00	GMP	EPA 375.4
Filterable Residue		2200.	mg/L	10.	07/03/2001	10:01	ADP	EPA 160.1
Inorganic Carbon, Total		29.	mg/L	1.	07/17/2001	14:19	ALB	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	07/22/2001	19:16	ALP	EPA 7841
Non-Filterable Residue		42.	mg/L	1.	07/03/2001	9:47	ADP	EPA 160.2

07/30/2001

Page 3 of 13

¹ Chemical Abstracts Service Registry Number² Method Detection Limit



**TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
1101 Market Street, CC 1A-C
Chattanooga, Tennessee 37402-2801**

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Wells

Location Code: KIF-6A

Field ID: Kingston Well 6A

Sample Description: KSW-6A-062801

Sample ID: AB06591 **LRF ID:** 01070020

Matrix: Water **Reg:** RCRA

Date Collected: 06/28/2001

Time Collected: 14:51 EST

Date Received: 07/03/2001

Time Received: 9:12

Project Manager: Scott R. McNabb

<u>Analyte</u>	<u>CAS Number¹</u>	<u>Result</u>	<u>Units</u>	<u>MDL²</u>	<u>Analysis Date</u>	<u>Analysis Time</u>	<u>Analyst</u>	<u>Method Reference</u>
----------------	-------------------------------	---------------	--------------	------------------------	----------------------	----------------------	----------------	-------------------------

Sample Comments: Co was confirmed through complete reanalysis.



**TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY**

1101 Market Street, CC 1A-C
Chattanooga, Tennessee 37402-2801

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Wells

Sample ID: AB06592 LRF ID: 01070020

Matrix: Water Reg: RCRA

Date Collected: 06/28/2001

Time Collected: 13:42 EST

Date Received: 07/03/2001

Time Received: 9:12

Location Code: KIF-13B

Field ID: Kingston Well 13B

Project Manager: Scott R. McNabb

Sample Description: KSW-13B-062801

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	< MDL	mg/L	0.05	07/12/2001	16:13	WEB	EPA 6010B
Calcium, Total	7440-70-2	11	mg/L	0.1	07/12/2001	16:13	WEB	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	07/12/2001	16:13	WEB	EPA 6010B
Iron, Total	7439-89-6	0.075	mg/L	0.01	07/12/2001	16:13	WEB	EPA 6010B
Magnesium, Total	7439-95-4	1.6	mg/L	0.01	07/12/2001	16:13	WEB	EPA 6010B
Manganese, Total	7439-96-5	0.057	mg/L	0.005	07/12/2001	16:13	WEB	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	07/12/2001	16:13	WEB	EPA 6010B
Barium, Total	7440-39-3	0.29	mg/L	0.01	07/12/2001	16:13	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	07/12/2001	16:13	WEB	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	07/12/2001	16:13	WEB	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	07/12/2001	16:13	WEB	EPA 6010B
Silicon, Total	7440-21-3	6.7	mg/L	0.02	07/12/2001	16:13	WEB	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	07/12/2001	16:13	WEB	EPA 6010B
Strontium, Total	7440-24-6	< MDL	mg/L	0.05	07/12/2001	16:13	WEB	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	07/12/2001	16:13	WEB	EPA 6010B
Titanium, Total	7440-32-6	< MDL	mg/L	0.005	07/12/2001	16:13	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	07/12/2001	16:13	WEB	EPA 6010B
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	07/11/2001	19:58	ALP	EPA 7060A
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	07/18/2001	9:37	ALP	EPA 7131A
Chloride, Total	16887-00-6	2.	mg/L	1.	07/25/2001	11:35	GMP	EPA 325.2
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	07/20/2001	10:58	ALP	EPA 7201
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	07/11/2001	20:17	ALP	EPA 7191
Fluoride, Total	16984-48-8	0.19	mg/L	0.1	07/26/2001	14:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0002	07/10/2001	13:00	ALB	EPA 7470A
Potassium, Total	7440-09-7	2.6	mg/L	0.1	07/06/2001	13:53	ALP	EPA 7610
Sodium, Total	7440-23-5	65	mg/L	0.1	07/06/2001	12:57	ALP	EPA 7770
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	07/10/2001	13:18	ALP	EPA 7521
Lead, Total	7439-92-1	< MDL	mg/L	0.001	07/10/2001	9:53	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	07/11/2001	15:14	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	07/13/2001	10:26	ALP	EPA 7740
Sulfate, Total	14808-79-8	5.	mg/L	1.	07/10/2001	12:00	GMP	EPA 375.4
Filterable Residue		230.	mg/L	10.	07/03/2001	10:02	ADP	EPA 160.1
Inorganic Carbon, Total		43.	mg/L	1.	07/17/2001	14:26	ALB	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	07/22/2001	19:22	ALP	EPA 7841
Non-Filterable Residue		< MDL	mg/L	1.	07/03/2001	9:47	ADP	EPA 160.2

07/30/2001

Page 5 of 13

¹ Chemical Abstracts Service Registry Number

² Method Detection Limit



**TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
1101 Market Street, CC 1A-C
Chattanooga, Tennessee 37402-2801**

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Wells

Location Code: KIF-13B

Field ID: Kingston Well 13B

Sample Description: KSW-13B-062801

Sample ID: AB06592

LRF ID: 01070020

Matrix: Water

Reg: RCRA

Date Collected: 06/28/2001

Time Collected: 13:42 EST

Date Received: 07/03/2001

Time Received: 9:12

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis	Analysis	Method
					Date	Time	Analyst

Sample Comments: Ca and Ba were confirmed through complete reanalysis.



TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
 1101 Market Street, CC 1A-C
 Chattanooga, Tennessee 37402-2801

Customer Address: Mark Boggs, LAB 2C-N
 Jack Milligan, CST17B-C
 Phone: Debbie Nunn, HB 2A-C
 Fax : Not Available
 E-Mail: Wells

Location Code: KIF-16A

Field ID: Kingston Well 16A

Sample Description: KSW-16A-062801-D1

Sample ID: AB06593

LRF ID: 01070020

Matrix: Water

Reg: RCRA

Date Collected: 06/28/2001

Time Collected: 15:47 EST

Date Received: 07/03/2001

Time Received: 9:12

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	2.5	mg/L	0.05	07/12/2001	16:15	WEB	EPA 6010B
Calcium, Total	7440-70-2	43	mg/L	0.1	07/12/2001	16:15	WEB	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	07/12/2001	16:15	WEB	EPA 6010B
Iron, Total	7439-89-6	3.5	mg/L	0.01	07/12/2001	16:15	WEB	EPA 6010B
Magnesium, Total	7439-95-4	9.7	mg/L	0.01	07/12/2001	16:15	WEB	EPA 6010B
Manganese, Total	7439-96-5	1.2	mg/L	0.005	07/12/2001	16:15	WEB	EPA 6010B
Zinc, Total	7440-66-6	0.011	mg/L	0.01	07/12/2001	16:15	WEB	EPA 6010B
Barium, Total	7440-39-3	0.06	mg/L	0.01	07/12/2001	16:15	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	07/12/2001	16:15	WEB	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	07/12/2001	16:15	WEB	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	07/12/2001	16:15	WEB	EPA 6010B
Silicon, Total	7440-21-3	10	mg/L	0.02	07/12/2001	16:15	WEB	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	07/12/2001	16:15	WEB	EPA 6010B
Strontium, Total	7440-24-6	< MDL	mg/L	0.05	07/12/2001	16:15	WEB	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	07/12/2001	16:15	WEB	EPA 6010B
Titanium, Total	7440-32-6	0.037	mg/L	0.005	07/12/2001	16:15	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	07/12/2001	16:15	WEB	EPA 6010B
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	07/11/2001	20:05	ALP	EPA 7060A
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	07/18/2001	9:44	ALP	EPA 7131A
Chloride, Total	16887-00-6	1.	mg/L	1.	07/25/2001	11:35	GMP	EPA 325.2
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	07/20/2001	11:04	ALP	EPA 7201
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	07/11/2001	20:23	ALP	EPA 7191
Fluoride, Total	16984-48-8	0.46	mg/L	0.1	07/26/2001	14:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0002	07/10/2001	13:00	ALB	EPA 7470A
Potassium, Total	7440-09-7	2.5	mg/L	0.1	07/06/2001	13:55	ALP	EPA 7610
Sodium, Total	7440-23-5	15	mg/L	0.1	07/06/2001	12:00	ALP	EPA 7770
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	07/10/2001	13:24	ALP	EPA 7521
Lead, Total	7439-92-1	< MDL	mg/L	0.001	07/10/2001	9:58	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	07/11/2001	15:20	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	07/13/2001	10:32	ALP	EPA 7740
Sulfate, Total	14808-79-8	48.	mg/L	1.	07/10/2001	12:00	GMP	EPA 375.4
Filterable Residue		250.	mg/L	10.	07/03/2001	10:03	ADP	EPA 160.1
Inorganic Carbon, Total		36.	mg/L	1.	07/17/2001	14:32	ALB	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	07/22/2001	19:29	ALP	EPA 7841
Non-Filterable Residue		72.	mg/L	1.	07/03/2001	9:48	ADP	EPA 160.2

07/30/2001

Page 7 of 13

¹ Chemical Abstracts Service Registry Number

² Method Detection Limit



**TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
1101 Market Street, CC 1A-C
Chattanooga, Tennessee 37402-2801**

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Wells

Location Code: KIF-16A

Field ID: Kingston Well 16A

Sample Description: KSW-16A-062801-D1

Sample ID: AB06593 **LRF ID:** 01070020

Matrix: Water **Reg:** RCRA

Date Collected: 06/28/2001

Time Collected: 15:47 EST

Date Received: 07/03/2001

Time Received: 9:12

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis	Analysis	Method
					Date	Time	Analyst

Sample Comments: Latitude:
Longitude:



TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
 1101 Market Street, CC 1A-C
 Chattanooga, Tennessee 37402-2801

Customer Address: Mark Boggs, LAB 2C-N
 Jack Milligan, CST17B-C
 Phone: Debbie Nunn, HB 2A-C
 Fax: Not Available
 E-Mail: Wells

Location Code: KIF-16A
 Field ID: Kingston Well 16A

Sample Description: KSW-16A-062801-D2

Sample ID: AB06594 LRF ID: 01070020
 Matrix: Water Reg: RCRA
 Date Collected: 06/28/2001
 Time Collected: 15:47 EST
 Date Received: 07/03/2001
 Time Received: 9:12
 Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	2.2	mg/L	0.05	07/12/2001	16:18	WEB	EPA 6010B
Calcium, Total	7440-70-2	43	mg/L	0.1	07/12/2001	16:18	WEB	EPA 6010B
Copper, Total	7440-50-8	<MDL	mg/L	0.01	07/12/2001	16:18	WEB	EPA 6010B
Iron, Total	7439-89-6	3.1	mg/L	0.01	07/12/2001	16:18	WEB	EPA 6010B
Magnesium, Total	7439-95-4	9.6	mg/L	0.01	07/12/2001	16:18	WEB	EPA 6010B
Manganese, Total	7439-96-5	1.2	mg/L	0.005	07/12/2001	16:18	WEB	EPA 6010B
Zinc, Total	7440-66-6	<MDL	mg/L	0.01	07/12/2001	16:18	WEB	EPA 6010B
Barium, Total	7440-39-3	0.058	mg/L	0.01	07/12/2001	16:18	WEB	EPA 6010B
Beryllium, Total	7440-41-7	<MDL	mg/L	0.001	07/12/2001	16:18	WEB	EPA 6010B
Boron, Total	7440-42-8	<MDL	mg/L	0.2	07/12/2001	16:18	WEB	EPA 6010B
Molybdenum, Total	7439-98-7	<MDL	mg/L	0.02	07/12/2001	16:18	WEB	EPA 6010B
Silicon, Total	7440-21-3	10	mg/L	0.02	07/12/2001	16:18	WEB	EPA 6010B
Silver, Total	7440-22-4	<MDL	mg/L	0.01	07/12/2001	16:18	WEB	EPA 6010B
Strontium, Total	7440-24-6	<MDL	mg/L	0.05	07/12/2001	16:18	WEB	EPA 6010B
Tin, Total	7440-31-5	<MDL	mg/L	0.05	07/12/2001	16:18	WEB	EPA 6010B
Titanium, Total	7440-32-6	0.034	mg/L	0.005	07/12/2001	16:18	WEB	EPA 6010B
Vanadium, Total	7440-62-2	<MDL	mg/L	0.01	07/12/2001	16:18	WEB	EPA 6010B
Arsenic, Total	7440-38-2	<MDL	mg/L	0.001	07/11/2001	20:12	ALP	EPA 7060A
Cadmium, Total	7440-43-9	0.00018	mg/L	0.0001	07/18/2001	9:50	ALP	EPA 7131A
Chloride, Total	16887-00-6	1.	mg/L	1.	07/25/2001	11:35	GMP	EPA 325.2
Cobalt, Total	7440-48-4	<MDL	mg/L	0.001	07/20/2001	12:45	ALP	EPA 7201
Chromium, Total	7440-47-3	<MDL	mg/L	0.001	07/11/2001	20:29	ALP	EPA 7191
Fluoride, Total	16984-48-8	0.45	mg/L	0.1	07/26/2001	14:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	<MDL	mg/L	0.0002	07/10/2001	13:00	ALB	EPA 7470A
Potassium, Total	7440-09-7	2.5	mg/L	0.1	07/06/2001	13:56	ALP	EPA 7610
Sodium, Total	7440-23-5	15	mg/L	0.1	07/06/2001	12:02	ALP	EPA 7770
Nickel, Total	7440-02-0	<MDL	mg/L	0.001	07/10/2001	13:29	ALP	EPA 7521
Lead, Total	7439-92-1	0.002	mg/L	0.001	07/10/2001	10:03	ALP	EPA 7421
Antimony, Total	7440-36-0	<MDL	mg/L	0.001	07/11/2001	15:26	ALP	EPA 7041A
Selenium, Total	7782-49-2	<MDL	mg/L	0.001	07/13/2001	10:38	ALP	EPA 7740
Sulfate, Total	14808-79-8	47.	mg/L	1.	07/10/2001	12:00	GMP	EPA 375.4
Filterable Residue		250.	mg/L	10.	07/03/2001	10:04	ADP	EPA 160.1
Inorganic Carbon, Total		35.	mg/L	1.	07/17/2001	14:38	ALB	ASTM477988
Thallium, Total	7440-28-0	<MDL	mg/L	0.002	07/22/2001	19:49	ALP	EPA 7841
Non-Filterable Residue		68.	mg/L	1.	07/03/2001	9:48	ADP	EPA 160.2

07/30/2001

Page 9 of 13

¹ Chemical Abstracts Service Registry Number² Method Detection Limit



**TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
1101 Market Street, CC 1A-C
Chattanooga, Tennessee 37402-2801**

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax: Not Available
E-Mail: Wells

Location Code: KIF-16A

Field ID: Kingston Well 16A

Sample Description: KSW-16A-062801-D2

Sample ID: AB06594 **LRF ID:** 01070020

Matrix: Water **Reg:** RCRA

Date Collected: 06/28/2001

Time Collected: 15:47 EST

Date Received: 07/03/2001

Time Received: 9:12

Project Manager: Scott R. McNabb

<u>Analyte</u>	<u>CAS Number¹</u>	<u>Result</u>	<u>Units</u>	<u>MDL²</u>	<u>Analysis Date</u>	<u>Analysis Time</u>	<u>Analyst</u>	<u>Method Reference</u>
----------------	-------------------------------	---------------	--------------	------------------------	----------------------	----------------------	----------------	-------------------------

Sample Comments: None



TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
 1101 Market Street, CC 1A-C
 Chattanooga, Tennessee 37402-2801

Customer Address: Mark Boggs, LAB 2C-N
 Jack Milligan, CST17B-C
 Phone: Debbie Nunn, HB 2A-C
 Fax : Not Available
 E-Mail: Wells

Sample ID: AB06595 LRF ID: 01070020

Matrix: Water Reg: RCRA

Date Collected: 06/28/2001

Time Collected: 17:00 EST

Date Received: 07/03/2001

Time Received: 9:12

Location Code: KIF

Field ID: EQUIPMENT BLANK

Sample Description: EQUIPMENT BLANK

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis	Analysis	Analyst	Method
					Date	Time		Reference
Aluminum, Total	7429-90-5	< MDL	mg/L	0.05	07/12/2001	16:20	WEB	EPA 6010B
Calcium, Total	7440-70-2	< MDL	mg/L	0.1	07/12/2001	16:20	WEB	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	07/12/2001	16:20	WEB	EPA 6010B
Iron, Total	7439-89-6	< MDL	mg/L	0.01	07/12/2001	16:20	WEB	EPA 6010B
Magnesium, Total	7439-95-4	< MDL	mg/L	0.01	07/12/2001	16:20	WEB	EPA 6010B
Manganese, Total	7439-96-5	< MDL	mg/L	0.005	07/12/2001	16:20	WEB	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	07/12/2001	16:20	WEB	EPA 6010B
Barium, Total	7440-39-3	< MDL	mg/L	0.01	07/12/2001	16:20	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	07/12/2001	16:20	WEB	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	07/12/2001	16:20	WEB	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	07/12/2001	16:20	WEB	EPA 6010B
Silicon, Total	7440-21-3	< MDL	mg/L	0.02	07/12/2001	16:20	WEB	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	07/12/2001	16:20	WEB	EPA 6010B
Strontium, Total	7440-24-6	< MDL	mg/L	0.05	07/12/2001	16:20	WEB	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	07/12/2001	16:20	WEB	EPA 6010B
Titanium, Total	7440-32-6	< MDL	mg/L	0.005	07/12/2001	16:20	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	07/12/2001	16:20	WEB	EPA 6010B
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	07/11/2001	20:18	ALP	EPA 7060A
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	07/18/2001	9:56	ALP	EPA 7131A
Chloride, Total	16887-00-6	< MDL	mg/L	1.	07/25/2001	11:35	GMP	EPA 325.2
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	07/20/2001	12:51	ALP	EPA 7201
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	07/11/2001	20:35	ALP	EPA 7191
Fluoride, Total	16984-48-8	< 0.1	mg/L	0.1	07/26/2001	14:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0002	07/10/2001	13:00	ALB	EPA 7470A
Potassium, Total	7440-09-7	< MDL	mg/L	0.1	07/06/2001	13:57	ALP	EPA 7610
Sodium, Total	7440-23-5	< MDL	mg/L	0.1	07/06/2001	12:03	ALP	EPA 7770
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	07/10/2001	13:34	ALP	EPA 7521
Lead, Total	7439-92-1	< MDL	mg/L	0.001	07/10/2001	10:08	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	07/11/2001	15:32	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	07/13/2001	10:44	ALP	EPA 7740
Sulfate, Total	14808-79-8	< 1.	mg/L	1.	07/10/2001	12:00	GMP	EPA 375.4
Filterable Residue		< MDL	mg/L	10.	07/03/2001	10:05	ADP	EPA 160.1
Inorganic Carbon, Total		< MDL	mg/L	1.	07/17/2001	14:44	ALB	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	07/22/2001	19:55	ALP	EPA 7841
Non-Filterable Residue		< MDL	mg/L	1.	07/03/2001	9:49	ADP	EPA 160.2

07/30/2001

Page 11 of 13

¹ Chemical Abstracts Service Registry Number

² Method Detection Limit



**TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
1101 Market Street, CC 1A-C
Chattanooga, Tennessee 37402-2801**

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Wells

Location Code: KIF

Field ID: EQUIPMENT BLANK

Sample Description: EQIPMENT BLANK

Sample ID: AB06595

LRF ID: 01070020

Matrix: Water

Reg: RCRA

Date Collected: 06/28/2001

Time Collected: 17:00 EST

Date Received: 07/03/2001

Time Received: 9:12

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
---------	-------------------------	--------	-------	------------------	---------------	---------------	---------	------------------

Sample Comments: None

Environmental Chemistry Laboratory data report number 010730-160538 was electronically approved using Labworks

Enterprise Version 4.6, Build 253 on 07/30/2001 at 14:43 by Scott R. McNabb

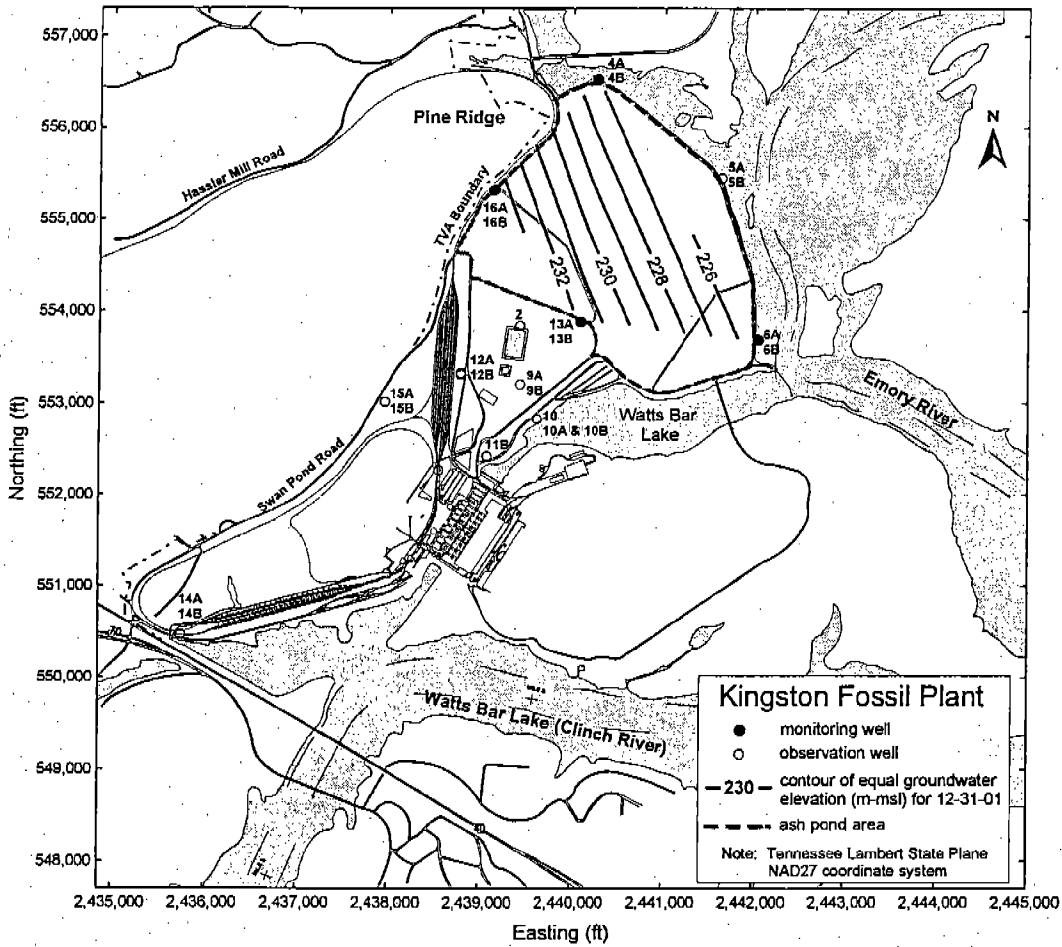
Vanessa L. Ramey, Lab Director
Pamela L. Whitt, Project Manager
Scott R. McNabb, Project Manager
Lisabeth R. Pearson, Quality Assurance Specialist

This report contains sample results for the following samples, Login Reference File number: 01070020

AR06590
AR06591
AR06592
AR06593
AR06594
AR06595

ENCLOSURE 3

**Kingston Fossil Plant
Ash Disposal Area (IDL 73-0094)
December 2001 Groundwater Monitoring Data**



FP6-ENVAFF-FY02

RCRA

108%

TENNESSEE VALLEY AUTHORITY WATER MANAGEMENT
ENVIRONMENTAL CHEMISTRY ANALYSIS REQUEST AND CUSTODY RECORD

FORM CONTROL # 16825

PROJECT ID KINGSTON GROUND WATER

LAB USE ONLY

REFERENCE: WORKPLAN OTHER
ACCT NO.

TEST IDC'S
KICPW1, KICPW2, DTGICP, SBW, ASW, CDW, CRW, COW, PRW,
NINW, SEW, TFW, DZGWA, KSW, NAW, CLW, FLW, GOWW, #TSS,
#TDS, TICW, HGW, DIGEVA

DATE REQUIRED 02/02/02

DATE RECEIVED 1-3-02

DAYS DUE 1-24-02

RESULTS TO Mark Boss

PROJECT LEADER Sam LIF=02010016

NO. LABELS 3

LAB USE ONLY LAB ID	FIELD ID	SAMPLE DESCRIPTION	SAMPLE MATRIX	DATE/TIME COLLECTED	NO. OF BOTTLES	ADDITIONAL IDC'S
HC00036	KSW-4B-123101	GROUND WATER	H ₂ O	12/31/01	3	
00057	KSW-6A-123101	"	"	1530	3	
00058	KSW-13B-123101-D1	"	"	1446	3	
00059	KSW-13B-123101-DZ	"	"	"	3	
00060	KSW-16A-123101-	"	"	1372	3	
00061	EQUIPMENT BLANK	Spiked	"	1500	3	

FIELD COMMENTS

ANALYSIS REQUESTED M MN TIC

SUBMITTED BY *James G. Johnson*

DATE/TIME 01/02/02

LABORATORY COMMENTS

RECEIVED BY

DATE/TIME

DISTRIBUTION OF COPIES
1 - LABORATORY 2 - RETURN TO REQUESTOR 3 - RETAINED BY REQUESTOR

TVA 30488 (RG-WM 3-94)

LWU
JAN 3 '02 10:30 OF 1
PAGE



TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
 1101 Market Street, PSC 1B-C
 Chattanooga, Tennessee 37402-2881

Customer Address: Mark Boggs, LAB 2C-N
 Jack Milligan, CST17B-C
 Phone: Debbie Nunn, HB 2A-C
 Fax: Not Available
 E-Mail: Wells

Location Code: KIF-4B

Field ID: KSW-4B-123101

Sample Description: GROUNDWATER

Sample ID: AC00056

LRF ID: 02010016

Matrix: Water

Reg: RCRA

Date Collected: 12/31/2001

Time Collected: 15:15 EST

Date Received: 01/03/2002

Time Received: 10:38

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	0.59	mg/L	0.05	01/09/2002	15:23	WEB	EPA 6010B
Calcium, Total	7440-70-2	190	mg/L	0.1	01/09/2002	15:23	WEB	EPA 6010B
Copper, Total	7440-50-8	0.01	mg/L	0.01	01/09/2002	15:23	WEB	EPA 6010B
Iron, Total	7439-89-6	1.3	mg/L	0.01	01/09/2002	15:23	WEB	EPA 6010B
Magnesium, Total	7439-95-4	17	mg/L	0.01	01/09/2002	15:23	WEB	EPA 6010B
Manganese, Total	7439-96-5	1.9	mg/L	0.005	01/09/2002	15:23	WEB	EPA 6010B
Zinc, Total	7440-66-6	0.017	mg/L	0.01	01/09/2002	15:23	WEB	EPA 6010B
Barium, Total	7440-39-3	0.033	mg/L	0.01	01/09/2002	15:23	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	01/09/2002	15:23	WEB	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	01/09/2002	15:23	WEB	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	01/09/2002	15:23	WEB	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	01/09/2002	15:23	WEB	EPA 6010B
Srortium, Total	7440-24-6	0.36	mg/L	0.05	01/09/2002	15:23	WEB	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	01/09/2002	15:23	WEB	EPA 6010B
Titanium, Total	7440-32-6	< MDL	mg/L	0.005	01/09/2002	15:23	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	01/09/2002	15:23	WEB	EPA 6010B
Arsenic, Total	7440-38-2	0.0042	mg/L	0.001	01/07/2002	12:08	ALP	EPA 7060A
Cadmium, Total	7440-43-9	0.0010	mg/L	0.0001	01/11/2002	10:15	ALP	EPA 7131A
Chloride, Total	16887-00-6	4.8	mg/L	1.	01/24/2002	17:29	GMP	EPA 325.2
Cobalt, Total	7440-48-4	0.0022	mg/L	0.001	01/08/2002	16:31	ALP	EPA 7201
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/07/2002	14:37	ALP	EPA 7191
Fluoride, Total	16984-48-8	0.13	mg/L	0.1	01/15/2002	10:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	01/15/2002	14:33	ALB	EPA 7470A
Potassium, Total	7440-09-7	5.3	mg/L	0.1	01/07/2002	9:03	ALP	EPA 7610
Sodium, Total	7440-23-5	4.7	mg/L	0.1	01/04/2002	11:57	ALP	EPA 7770
Nickel, Total	7440-02-0	0.0033	mg/L	0.001	01/09/2002	10:27	ALP	EPA 7521
Lead, Total	7439-92-1	< MDL	mg/L	0.001	01/09/2002	17:24	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	01/09/2002	12:41	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/10/2002	14:43	ALP	EPA 7740
Sulfate, Total	14808-79-8	400.	mg/L	1.	01/15/2002	13:00	GMP	EPA 375.4
Filterable Residue		780.	mg/L	10.	01/04/2002	14:59	AJH	EPA 160.1
Inorganic Carbon, Total		38.	mg/L	1.	01/15/2002	11:40	ALB	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/10/2002	16:34	ALP	EPA 7841
Non-Filterable Residue		73.	mg/L	1.	01/04/2002	8:07	AJH	EPA 160.2



**TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2881**

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Wells

Location Code: KIF-4B

Field ID: KSW-4B-123101

Sample Description: GROUNDWATER

Sample ID: AC00056 **LRF ID:** 02010016

Matrix: Water **Reg:** RCRA

Date Collected: 12/31/2001

Time Collected: 15:15 EST

Date Received: 01/03/2002

Time Received: 10:38

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
---------	-------------------------	--------	-------	------------------	---------------	---------------	---------	------------------

Sample Comments: Latitude:
Longitude:



TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
 1101 Market Street, PSC 1B-C
 Chattanooga, Tennessee 37402-2881

Customer Address: Mark Boggs, LAB 2C-N
 Jack Milligan, CST17B-C
 Phone: Debbie Nunn, HB 2A-C
 Fax : Not Available
 E-Mail: Wells

Location Code: KIF-6A
 Field ID: KSW-6A-123101

Sample Description: GROUNDWATER

Sample ID: AC00057 LRF ID: 02010016
 Matrix: Water Reg: RCRA
 Date Collected: 12/31/2001
 Time Collected: 15:30 EST
 Date Received: 01/03/2002
 Time Received: 10:38
 Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	0.18	mg/L	0.05	01/09/2002	15:26	WEB	EPA 6010B
Calcium, Total	7440-70-2	210	mg/L	0.1	01/09/2002	15:26	WEB	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	01/09/2002	15:26	WEB	EPA 6010B
Iron, Total	7439-89-6	360	mg/L	0.01	01/09/2002	15:26	WEB	EPA 6010B
Magnesium, Total	7439-95-4	43	mg/L	0.01	01/09/2002	15:26	WEB	EPA 6010B
Manganese, Total	7439-96-5	65	mg/L	0.005	01/09/2002	15:26	WEB	EPA 6010B
Zinc, Total	7440-66-6	0.10	mg/L	0.01	01/09/2002	15:26	WEB	EPA 6010B
Barium, Total	7440-39-3	0.033	mg/L	0.01	01/09/2002	15:26	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	01/09/2002	15:26	WEB	EPA 6010B
Boron, Total	7440-42-8	0.78	mg/L	0.2	01/09/2002	15:26	WEB	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	01/09/2002	15:26	WEB	EPA 6010B
Silver, Total	7440-22-4	0.04	mg/L	0.01	01/09/2002	15:26	WEB	EPA 6010B
Strontium, Total	7440-24-6	0.96	mg/L	0.05	01/09/2002	15:26	WEB	EPA 6010B
Tin, Total	7440-31-5	0.11	mg/L	0.05	01/09/2002	15:26	WEB	EPA 6010B
Titanium, Total	7440-32-6	< MDL	mg/L	0.005	01/09/2002	15:26	WEB	EPA 6010B
Vanadium, Total	7440-62-2	0.02	mg/L	0.01	01/09/2002	15:26	WEB	EPA 6010B
Arsenic, Total	7440-38-2	0.011	mg/L	0.001	01/07/2002	12:14	ALP	EPA 7060A
Cadmium, Total	7440-43-9	0.0011	mg/L	0.0001	01/08/2002	16:23	ALP	EPA 7131A
Chloride, Total	16887-00-6	6.4	mg/L	1.	01/24/2002	17:29	GMP	EPA 325.2
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	01/08/2002	16:37	ALP	EPA 7201
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/07/2002	14:47	ALP	EPA 7191
Fluoride, Total	16984-48-8	< MDL	mg/L	0.1	01/15/2002	10:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	01/15/2002	14:35	ALB	EPA 7470A
Potassium, Total	7440-09-7	14.	mg/L	0.1	01/07/2002	9:05	ALP	EPA 7610
Sodium, Total	7440-23-5	9.2	mg/L	0.1	01/04/2002	11:58	ALP	EPA 7770
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	01/09/2002	15:44	ALP	EPA 7521
Lead, Total	7439-92-1	0.0033	mg/L	0.001	01/09/2002	17:29	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	01/09/2002	12:48	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/10/2002	8:42	ALP	EPA 7740
Sulfate, Total	14808-79-8	1700.	mg/L	1.	01/15/2002	13:00	GMP	EPA 375.4
Filterable Residue		2900.	mg/L	10.	01/04/2002	15:00	AJH	EPA 160.1
Inorganic Carbon, Total		66.	mg/L	1.	01/15/2002	11:47	ALB	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/10/2002	16:41	ALP	EPA 7841
Non-Filterable Residue		45.	mg/L	1.	01/04/2002	8:07	AJH	EPA 160.2

01/29/2002

Page 3 of 11

¹ Chemical Abstracts Service Registry Number² Method Detection Limit



**TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2881**

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Wells

Location Code: KIF-6A

Field ID: KSW-6A-123101

Sample Description: GROUNDWATER

Sample ID: AC00057

Matrix: Water

Date Collected: 12/31/2001

Time Collected: 15:30 EST

Date Received: 01/03/2002

Time Received: 10:38

Project Manager: Scott R. McNabb

LRF ID: 02010016

Reg: RCRA

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
---------	-------------------------	--------	-------	------------------	---------------	---------------	---------	------------------

Sample Comments: Latitude:
Longitude:



TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
 1101 Market Street, PSC 1B-C
 Chattanooga, Tennessee 37402-2881

Customer Address: Mark Boggs, LAB 2C-N
 Jack Milligan, CST17B-C
 Phone: Debbie Nunn, HB 2A-C
 Fax: Not Available
 E-Mail: Wells

Sample ID: AC00058 LRF ID: 02010016
 Matrix: Water Reg: RCRA
 Date Collected: 12/31/2001
 Time Collected: 14:46 EST
 Date Received: 01/03/2002
 Time Received: 10:38
 Project Manager: Scott R. McNabb

Location Code: KIF-13B

Field ID: KSW-13B-123101-D1

Sample Description: GROUNDWATER

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis	Analysis	Analyst	Method
					Date	Time		Reference
Aluminum, Total	7429-90-5	<MDL	mg/L	0.05	01/09/2002	15:30	WEB	EPA 6010B
Calcium, Total	7440-70-2	12	mg/L	0.1	01/09/2002	15:30	WEB	EPA 6010B
Copper, Total	7440-50-8	<MDL	mg/L	0.01	01/09/2002	15:30	WEB	EPA 6010B
Iron, Total	7439-89-6	0.061	mg/L	0.01	01/09/2002	15:30	WEB	EPA 6010B
Magnesium, Total	7439-95-4	1.7	mg/L	0.01	01/09/2002	15:30	WEB	EPA 6010B
Manganese, Total	7439-96-5	0.061	mg/L	0.005	01/09/2002	15:30	WEB	EPA 6010B
Zinc, Total	7440-66-6	<MDL	mg/L	0.01	01/09/2002	15:30	WEB	EPA 6010B
Barium, Total	7440-39-3	0.30	mg/L	0.01	01/09/2002	15:30	WEB	EPA 6010B
Beryllium, Total	7440-41-7	<MDL	mg/L	0.001	01/09/2002	15:30	WEB	EPA 6010B
Boron, Total	7440-42-8	<MDL	mg/L	0.2	01/09/2002	15:30	WEB	EPA 6010B
Molybdenum, Total	7439-98-7	<MDL	mg/L	0.02	01/09/2002	15:30	WEB	EPA 6010B
Silver, Total	7440-22-4	<MDL	mg/L	0.01	01/09/2002	15:30	WEB	EPA 6010B
Strontium, Total	7440-24-6	0.24	mg/L	0.05	01/09/2002	15:30	WEB	EPA 6010B
Tin, Total	7440-31-5	<MDL	mg/L	0.05	01/09/2002	15:30	WEB	EPA 6010B
Titanium, Total	7440-32-6	<MDL	mg/L	0.005	01/09/2002	15:30	WEB	EPA 6010B
Vanadium, Total	7440-62-2	<MDL	mg/L	0.01	01/09/2002	15:30	WEB	EPA 6010B
Arsenic, Total	7440-38-2	<MDL	mg/L	0.001	01/07/2002	12:21	ALP	EPA 7060A
Cadmium, Total	7440-43-9	0.0001	mg/L	0.0001	01/08/2002	15:05	ALP	EPA 7131A
Chloride, Total	16887-00-6	1.5	mg/L	1.	01/24/2002	17:29	GMP	EPA 325.2
Cobalt, Total	7440-48-4	<MDL	mg/L	0.001	01/08/2002	16:43	ALP	EPA 7201
Chromium, Total	7440-47-3	<MDL	mg/L	0.001	01/07/2002	14:57	ALP	EPA 7191
Fluoride, Total	16984-48-8	0.17	mg/L	0.1	01/15/2002	10:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	<MDL	mg/L	0.0001	01/15/2002	14:37	ALB	EPA 7470A
Potassium, Total	7440-09-7	1.8	mg/L	0.1	01/07/2002	9:21	ALP	EPA 7610
Sodium, Total	7440-23-5	65.	mg/L	0.1	01/07/2002	8:13	ALP	EPA 7770
Nickel, Total	7440-02-0	<MDL	mg/L	0.001	01/09/2002	15:51	ALP	EPA 7521
Lead, Total	7439-92-1	0.001	mg/L	0.001	01/09/2002	17:35	ALP	EPA 7421
Antimony, Total	7440-36-0	<MDL	mg/L	0.001	01/09/2002	12:55	ALP	EPA 7041A
Selenium, Total	7782-49-2	<MDL	mg/L	0.001	01/10/2002	8:23	ALP	EPA 7740
Sulfate, Total	14808-79-8	3.9	mg/L	1.	01/15/2002	13:00	GMP	EPA 375.4
Filterable Residue		240.	mg/L	10.	01/04/2002	15:00	AJH	EPA 160.1
Inorganic Carbon, Total		44.	mg/L	1.	01/15/2002	11:53	ALB	ASTM477988
Thallium, Total	7440-28-0	<MDL	mg/L	0.002	01/10/2002	16:48	ALP	EPA 7841
Non-Filterable Residue		<MDL	mg/L	1.	01/04/2002	8:08	AJH	EPA 160.2

01/29/2002

Page 5 of 11

¹ Chemical Abstracts Service Registry Number² Method Detection Limit



**TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2881**

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Wells

Location Code: KIF-13B

Field ID: KSW-13B-123101-D1

Sample Description: GROUNDWATER

Sample ID: AC00058 **LRF ID:** 02010016
Matrix: Water **Reg:** RCRA
Date Collected: 12/31/2001
Time Collected: 14:46 EST
Date Received: 01/03/2002
Time Received: 10:38
Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
---------	-------------------------	--------	-------	------------------	---------------	---------------	---------	------------------

Sample Comments: Ca, Ba, Sr and TDS were confirmed through reanalysis.



TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
 1101 Market Street, PSC 1B-C
 Chattanooga, Tennessee 37402-2881

Customer Address: Mark Boggs, LAB 2C-N
 Jack Milligan, CST17B-C
 Phone: Debbie Nunn, HB 2A-C
 Fax : Not Available
 E-Mail: Wells

Sample ID: AC00059

LRF ID: 02010016

Matrix: Water

Reg: RCRA

Date Collected: 12/31/2001

Time Collected: 14:46 EST

Date Received: 01/03/2002

Time Received: 10:38

Location Code: KIF-13B

Field ID: KSW-13B-123101-D2

Sample Description: GROUNDWATER

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	< MDL	mg/L	0.05	01/09/2002	15:33	WEB	EPA 6010B
Calcium, Total	7440-70-2	12	mg/L	0.1	01/09/2002	15:33	WEB	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	01/09/2002	15:33	WEB	EPA 6010B
Iron, Total	7439-89-6	0.046	mg/L	0.01	01/09/2002	15:33	WEB	EPA 6010B
Magnesium, Total	7439-95-4	1.7	mg/L	0.01	01/09/2002	15:33	WEB	EPA 6010B
Manganese, Total	7439-96-5	0.055	mg/L	0.005	01/09/2002	15:33	WEB	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	01/09/2002	15:33	WEB	EPA 6010B
Barium, Total	7440-39-3	0.29	mg/L	0.01	01/09/2002	15:33	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	01/09/2002	15:33	WEB	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	01/09/2002	15:33	WEB	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	01/09/2002	15:33	WEB	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	01/09/2002	15:33	WEB	EPA 6010B
Strontium, Total	7440-24-6	0.24	mg/L	0.05	01/09/2002	15:33	WEB	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	01/09/2002	15:33	WEB	EPA 6010B
Titanium, Total	7440-32-6	< MDL	mg/L	0.005	01/09/2002	15:33	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	01/09/2002	15:33	WEB	EPA 6010B
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	01/07/2002	12:27	ALP	EPA 7060A
Cadmium, Total	7440-43-9	0.0003	mg/L	0.0001	01/08/2002	15:11	ALP	EPA 7131A
Chloride, Total	16887-00-6	1.6	mg/L	1.	01/24/2002	17:29	GMP	EPA 325.2
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	01/08/2002	16:49	ALP	EPA 7201
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/07/2002	15:07	ALP	EPA 7191
Fluoride, Total	16984-48-8	0.18	mg/L	0.1	01/15/2002	10:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	01/15/2002	14:39	ALB	EPA 7470A
Potassium, Total	7440-09-7	1.8	mg/L	0.1	01/07/2002	9:22	ALP	EPA 7610
Sodium, Total	7440-23-5	65.	mg/L	0.1	01/07/2002	8:14	ALP	EPA 7770
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	01/09/2002	10:46	ALP	EPA 7521
Lead, Total	7439-92-1	< MDL	mg/L	0.001	01/09/2002	17:40	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	01/09/2002	13:01	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/10/2002	8:29	ALP	EPA 7740
Sulfate, Total	14808-79-8	4.3	mg/L	1.	01/15/2002	13:00	GMP	EPA 375.4
Filterable Residue		230.	mg/L	10.	01/04/2002	15:01	AJH	EPA 160.1
Inorganic Carbon, Total		44.	mg/L	1.	01/15/2002	11:59	ALB	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/10/2002	16:54	ALP	EPA 7841
Non-Filterable Residue		< MDL	mg/L	1.	01/04/2002	8:08	AJH	EPA 160.2



**TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2881**

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Wells

Location Code: KIF-13B

Field ID: KSW-13B-123101-D2

Sample Description: GROUNDWATER

Sample ID: AC00059

LRF ID: 02010016

Matrix: Water

Reg: RCRA

Date Collected: 12/31/2001

Time Collected: 14:46 EST

Date Received: 01/03/2002

Time Received: 10:38

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
---------	-------------------------	--------	-------	------------------	---------------	---------------	---------	------------------

Sample Comments: Ca, Ba, and Sr were confirmed through reanalysis.



TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
 1101 Market Street, PSC 1B-C
 Chattanooga, Tennessee 37402-2881

Customer Address: Mark Boggs, LAB 2C-N
 Jack Milligan, CST17B-C
 Phone: Debbie Nunn, HB 2A-C
 Fax: Not Available
 E-Mail: Wells

Location Code: KIF-16A

Field ID: KSW-16A-123101

Sample Description: GROUNDWATER

Sample ID: AC00060

LRF ID: 02010016

Matrix: Water

Reg: RCRA

Date Collected: 12/31/2001

Time Collected: 13:52 EST

Date Received: 01/03/2002

Time Received: 10:38

Project Manager: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	0.053	mg/L	0.05	01/09/2002	15:44	WEB	EPA 6010B
Calcium, Total	7440-70-2	45	mg/L	0.1	01/09/2002	15:44	WEB	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	01/09/2002	15:44	WEB	EPA 6010B
Iron, Total	7439-89-6	0.81	mg/L	0.01	01/09/2002	15:44	WEB	EPA 6010B
Magnesium, Total	7439-95-4	9.9	mg/L	0.01	01/09/2002	15:44	WEB	EPA 6010B
Manganese, Total	7439-96-5	1.2	mg/L	0.005	01/09/2002	15:44	WEB	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	01/09/2002	15:44	WEB	EPA 6010B
Barium, Total	7440-39-3	0.043	mg/L	0.01	01/09/2002	15:44	WEB	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	01/09/2002	15:44	WEB	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	01/09/2002	15:44	WEB	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	01/09/2002	15:44	WEB	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	01/09/2002	15:44	WEB	EPA 6010B
Strontium, Total	7440-24-6	0.29	mg/L	0.05	01/09/2002	15:44	WEB	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	01/09/2002	15:44	WEB	EPA 6010B
Titanium, Total	7440-32-6	< MDL	mg/L	0.005	01/09/2002	15:44	WEB	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	01/09/2002	15:44	WEB	EPA 6010B
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	01/07/2002	12:33	ALP	EPA 7060A
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	01/08/2002	15:17	ALP	EPA 7131A
Chloride, Total	16887-00-6	1.0	mg/L	1.	01/24/2002	17:29	GMP	EPA 325.2
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	01/08/2002	16:55	ALP	EPA 7201
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/07/2002	16:40	ALP	EPA 7191
Fluoride, Total	16984-48-8	0.44	mg/L	0.1	01/15/2002	10:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	01/15/2002	14:41	ALB	EPA 7470A
Potassium, Total	7440-09-7	1.5	mg/L	0.1	01/07/2002	9:09	ALP	EPA 7610
Sodium, Total	7440-23-5	15.	mg/L	0.1	01/04/2002	12:03	ALP	EPA 7770
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	01/09/2002	15:57	ALP	EPA 7521
Lead, Total	7439-92-1	< MDL	mg/L	0.001	01/09/2002	17:45	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	01/09/2002	13:08	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/08/2002	9:57	ALP	EPA 7740
Sulfate, Total	14808-79-8	22.	mg/L	1.	01/15/2002	13:00	GMP	EPA 375.4
Filterable Residue		260.	mg/L	10.	01/04/2002	15:01	AJH	EPA 160.1
Inorganic Carbon, Total		39.	mg/L	1.	01/15/2002	12:05	ALB	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/10/2002	17:01	ALP	EPA 7841
Non-Filterable Residue		2.	mg/L	1.	01/04/2002	8:08	AJH	EPA 160.2



**TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL CHEMISTRY LABORATORY
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2881**

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax: Not Available
E-Mail: Wells

Location Code: KIF-16A

Field ID: KSW-16A-123101

Sample Description: GROUNDWATER

Sample ID: AC00060

Matrix: Water

Date Collected: 12/31/2001

Time Collected: 13:52 EST

Date Received: 01/03/2002

Time Received: 10:38

Project Manager: Scott R. McNabb

LRF ID: 02010016

Reg: RCRA

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
---------	-------------------------	--------	-------	------------------	---------------	---------------	---------	------------------

Sample Comments: None

Environmental Chemistry Laboratory data report number 020129-154630 was electronically approved using Labworks

Enterprise Version 4.6, Build 253 on 01/28/2002 at 18:06 by Scott R. McNabb

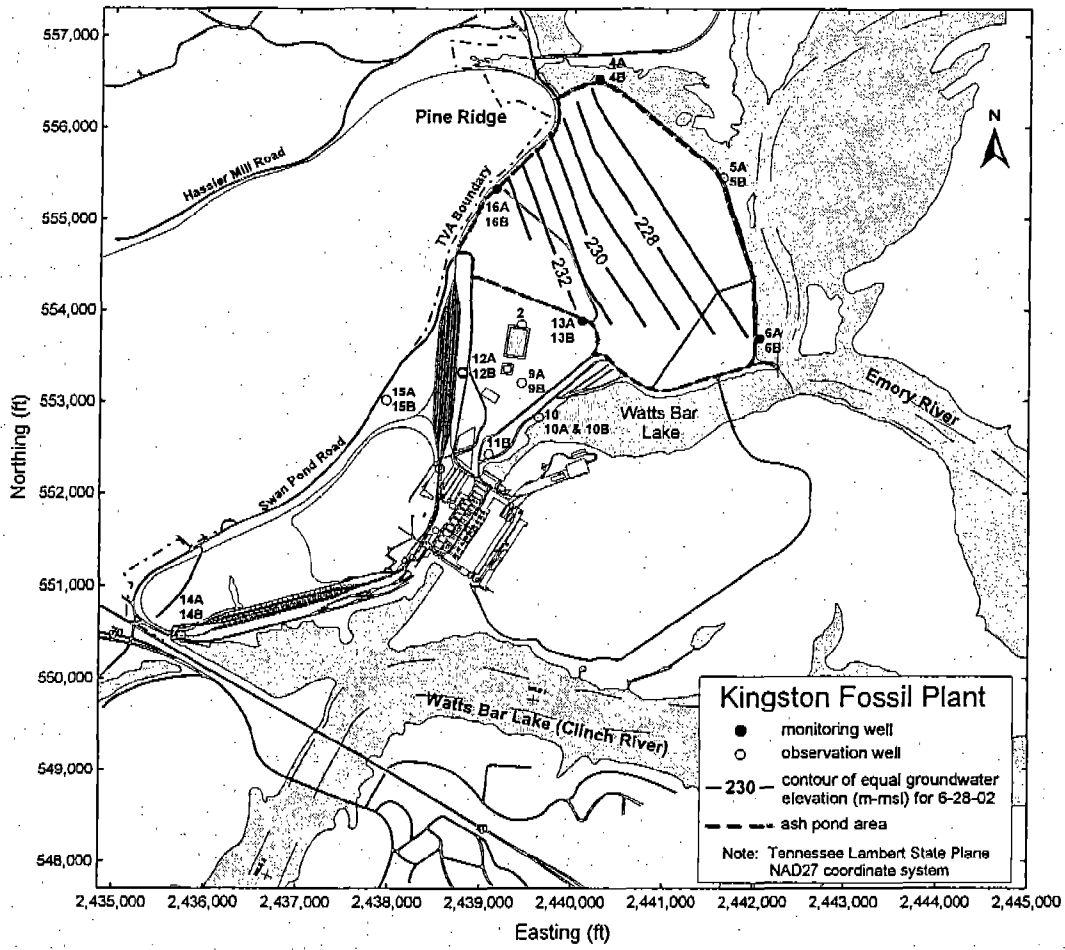
Vanessa L. Ramey, Lab Director
Pamela L. Whitt, Project Manager
Scott R. McNabb, Project Manager
Lisabeth R. Pearson, Quality Assurance Specialist

This report contains sample results for the following samples, Login Reference File number: 02010016

AC00056
AC00057
AC00058
AC00059
AC00060

ENCLOSURE 4

**Kingston Fossil Plant
Ash Disposal Area (IDL 73-0094)
June 2002 Groundwater Monitoring Data**



Kingston Fossil Plant							EPA	Comparison			
June 28, 2002 Groundwater Samples							MCL	to MCL			
Analytical Results for Appendix I Inorganic Constituents								L = less than			
								G = greater than			
Constituent	Units	Well No.				EPA MCL	Well No.				
		4B	6A	13B	16A ^b		4B	6A	13B	16A	
		downgradient	downgradient	downgradient	upgradient						
Antimony	µg/L	<1	<1	<1	<1	6	L	L	L	L	
Arsenic	µg/L	<1	8	2	<1	50	L	L	L	L	
Barium	µg/L	55	28	30	50	2,000	L	L	L	L	
Beryllium	µg/L	<1	<1	<1	<1	4	L	L	L	L	
Cadmium	µg/L	<0.1	0.77	<0.1	<0.1	5	L	L	L	L	
Chromium	µg/L	3	3	<1	<1	100	L	L	L	L	
Cobalt	µg/L	23	14	<1	<1	--	--	--	--	--	
Copper	µg/L	10	<10	<10	<10	1,000	L	L	L	L	
Fluoride	µg/L	0.11	<0.1	0.18	0.44	4,000	L	L	L	L	
Lead	µg/L	<1	2.6	<1	<1	50	L	L	L	L	
Mercury	µg/L	<0.1	<0.1	<0.1	<0.1	2	L	L	L	L	
Nickel	µg/L	7	11	<1	<1	--	--	--	--	--	
Selenium	µg/L	<1	<1	<1	<1	50	L	L	L	L	
Silver	µg/L	<10	<10	<10	<10	100	L	L	L	L	
Thallium	µg/L	<2	<2	<2	<2	2	L	L	L	L	
Vanadium	µg/L	<10	<10	<10	<10	--	--	--	--	--	
Zinc	µg/L	<10	60	<10	<10	5,000	L	L	L	L	
Water Level Elev.	m-msl	226.409	226.658	231.862	233.784						
<i>a - method detection limit</i>											
<i>b - reported concentrations are averages of duplicate samples.</i>											
<i>c - assumed UPL equal to 90th percentile of TVA valley-wide groundwater measurements</i>											

FPG-ENVAFF-FY02
RCRA

108% TENNESSEE VALLEY AUTHORITY WATER MANAGEMENT
ENVIRONMENTAL CHEMISTRY ANALYSIS REQUEST AND CUSTODY RECORD

FORM CONTROL # 4310

PROJECT ID KINGSTON GROUNDWATER
REFERENCE: WORKPLAN OTHER
ACCT NO. _____
DATE REQUIRED 8/1/02
RESULTS TO MARK BIGGS
LAB - N

LAB USE ONLY
TEST IDC'S \$ICPW1, \$ICPW2, DTGICP, NAW K-W HGW DTGCA
SBW, ASW, CDW, CRW, POW, PBW, NIK, SEW, TLW, DTGCA
CLW, FLW, SO4W, #ISS, #TDS, #PCW, #TKW, NH3/W, NO3
DATE RECEIVED 7-2-02 DAYS DUE 7-17-02
PROJECT LEADER SRL LIF = 02070025 NO. LABELS 4

LAB USE ONLY LAB ID	FIELD ID	SAMPLE DESCRIPTION	SAMPLE MATRIX	DATE/TIME COLLECTED	NO. OF BOTTLES	ADDITIONAL IDC'S
<u>AC10574</u>	<u>KSW-4B-062802</u>	<u>GROUNDWATER</u>	<u>H2O</u>	<u>06/25/02 1105</u>	<u>4</u>	
<u>10575</u>	<u>KSW-6A-062802</u>			<u>" 1320</u>	<u>4</u>	
<u>10576</u>	<u>KSW-13B-062802</u>			<u>" 1344</u>	<u>4</u>	
<u>10577</u>	<u>KSW-16A-062802</u>			<u>" 1455</u>	<u>4</u>	
<u>10578</u>	<u>KSW-16A-062802 DUP</u>			<u>" 1455</u>	<u>4</u>	
<u>10579</u>	<u>EQUIPMENT BLANK</u>	<u>Special Yarn Sample Equipment</u>	<u>H2O</u>	<u>" 1400</u>	<u>4</u>	

FIELD COMMENTS _____
ANALYSIS REQUESTED per workplan - including Ammonia, Nitrate/Nitrite, TKN

Generator Statement of RCRA Laboratory Sample Regulatory Status
As generator of this material, I have disclosed to TVA Environmental Chemistry all know of the regulatory status of the sample(s) in regard to the definitions in 40 CFR part 261 s part C, Characteristics of Hazardous Waste and sub part D, Lists of Hazardous Waste v are outside the scope of the analyses requested.
Signed _____ Date _____
(Generator)

SUBMITTED BY [Signature] DATE/TIME 07/01/02
RECEIVED BY _____ DATE/TIME _____

LABORATORY COMMENTS _____
LW0
JUL 2 2002 10:47

DISTRIBUTION OF COPIES
1 - LABORATORY 2 - RETURN TO REQUESTOR 3 - RETAINED BY REQUESTOR
TVA 30488 (1-1999)

PAGE 1 OF 1



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Data Report No 020729-13
Report of Re STD_SORT

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Phone: (423) 697 - 4318 • Fax: (423) 697 - 4137

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Location Code: KIF-4B

Field ID: KSW-4B-062802

Sample Description: GROUNDWATER

Sample I AC10574

LRF ID: 02070025

Matri Water

Reg: RCRA

Date Collec 06/28/2002

Time Collec 11:05 EST

Date Receiv 07/02/2002

Time Receiv 10:47

Project Man: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	0.23	mg/L	0.05	07/24/2002	17:49	LMJ	EPA 6010B
Calcium, Total	7440-70-2	230	mg/L	0.1	07/24/2002	17:49	LMJ	EPA 6010B
Copper, Total	7440-50-8	0.01	mg/L	0.01	07/24/2002	17:49	LMJ	EPA 6010B
Iron, Total	7439-89-6	0.55	mg/L	0.01	07/24/2002	17:49	LMJ	EPA 6010B
Magnesium, Total	7439-95-4	21	mg/L	0.01	07/24/2002	17:49	LMJ	EPA 6010B
Manganese, Total	7439-96-5	1.3	mg/L	0.005	07/24/2002	17:49	LMJ	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	07/24/2002	17:49	LMJ	EPA 6010B
Barium, Total	7440-39-3	0.055	mg/L	0.01	07/19/2002	15:16	LMJ	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	07/19/2002	15:16	LMJ	EPA 6010B
Boron, Total	7440-42-8	0.89	mg/L	0.2	07/19/2002	15:16	LMJ	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	07/19/2002	15:16	LMJ	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	07/19/2002	15:16	LMJ	EPA 6010B
Strontium, Total	7440-24-6	0.53	mg/L	0.05	07/19/2002	15:16	LMJ	EPA 6010B
Tin, Total	7440-31-5	0.83	mg/L	0.05	07/19/2002	15:16	LMJ	EPA 6010B
Titanium, Total	7440-32-6	0.01	mg/L	0.005	07/19/2002	15:16	LMJ	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	07/19/2002	15:16	LMJ	EPA 6010B
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	07/09/2002	18:11	ALP	EPA 7060A
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	07/11/2002	18:55	ALP	EPA 7131A
Chloride, Total	16887-00-6	4.6	mg/L	1.	07/17/2002	14:35	ADP	EPA 325.2
Cobalt, Total	7440-48-4	0.023	mg/L	0.001	07/10/2002	9:51	ALP	EPA 7201
Chromium, Total	7440-47-3	0.003	mg/L	0.001	07/08/2002	20:34	ALP	EPA 7191
Fluoride, Total	16984-48-8	0.11	mg/L	0.1	07/16/2002	17:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	07/10/2002	14:35	ALB	EPA 7470A
Potassium, Total	7440-09-7	7.6	mg/L	0.1	07/13/2002	17:37	ALP	EPA 7610
Sodium, Total	7440-23-5	5.5	mg/L	0.1	07/13/2002	15:07	ALP	EPA 7770
Nickel, Total	7440-02-0	0.007	mg/L	0.001	07/25/2002	8:41	ALP	EPA 7521
Lead, Total	7439-92-1	< MDL	mg/L	0.001	07/19/2002	11:53	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	07/15/2002	16:13	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	07/11/2002	1:42	ALP	EPA 7740
Sulfate, Total	14808-79-8	390	mg/L	1.	07/17/2002	9:50	JMT	EPA 375.4
Filterable Residue		930.	mg/L	10.	07/03/2002	13:27	JAN	EPA 160.1
Inorganic Carbon, Total		90.	mg/L	1.	07/16/2002	15:38	ADP	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	07/15/2002	13:34	ALP	EPA 7841
Non-Filterable Residue		8.	mg/L	1.	07/03/2002	10:01	JAN	EPA 160.2
Total Kjeldahl Nitrogen		0.41	mg/L	0.02	07/22/2002	16:03	GMP	EPA 351.2

07/29/2002

Page 1 of 11

¹ Chemical Abstracts Service Registry Number ² Method Detection Limit



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Data Report No 020729-13
Report of Re STD_SORT

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Phone: (423) 697 - 4318 • Fax: (423) 697 - 4137

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Location Code: KIF-4B

Field ID: KSW-4B-062802

Sample Description: GROUNDWATER

Sample I AC10574

LRF ID: 02070025

Matri Water

Reg: RCRA

Date Collec 06/28/2002

Time Collec 11:05 EST

Date Receiv 07/02/2002

Time Receiv 10:47

Project Man: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Ammonia as N	7664-41-7	0.18	mg/L	0.01	07/05/2002	14:06	ADP	EPA 350.1
Nitrate-Nitrite as N		< MDL	mg/L	0.01	07/05/2002	14:06	ADP	EPA 353.2

Sample Comments: Latitude:
Longitude:



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Phone: (423) 697 - 4318 • Fax: (423) 697 - 4137

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Sample I AC10575 LRF ID: 02070025
Matri Water Reg: RCRA

Date Collec: 06/28/2002
Time Collec: 15:20 EST
Date Receiv: 07/02/2002
Time Receiv: 10:47

Location Code: KIF-6A

Field ID: KSW-6A-062802

Sample Description: GROUNDWATER

Project Man: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	0.42	mg/L	0.05	07/24/2002	17:53	LMJ	EPA 6010B
Calcium, Total	7440-70-2	190	mg/L	0.1	07/24/2002	17:53	LMJ	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	07/24/2002	17:53	LMJ	EPA 6010B
Iron, Total	7439-89-6	370	mg/L	0.1	07/24/2002	17:53	LMJ	EPA 6010B
Magnesium, Total	7439-95-4	40	mg/L	0.01	07/24/2002	17:53	LMJ	EPA 6010B
Manganese, Total	7439-96-5	60	mg/L	0.005	07/24/2002	17:53	LMJ	EPA 6010B
Zinc, Total	7440-66-6	0.06	mg/L	0.01	07/24/2002	17:53	LMJ	EPA 6010B
Barium, Total	7440-39-3	0.028	mg/L	0.01	07/02/2002	15:41	LRP	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	07/02/2002	15:41	LRP	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	07/02/2002	15:41	LRP	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	07/02/2002	15:41	LRP	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	07/02/2002	15:41	LRP	EPA 6010B
Strontium, Total	7440-24-6	0.067	mg/L	0.05	07/02/2002	15:41	LRP	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	07/02/2002	15:41	LRP	EPA 6010B
Titanium, Total	7440-32-6	0.0092	mg/L	0.005	07/02/2002	15:41	LRP	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	07/02/2002	15:41	LRP	EPA 6010B
Arsenic, Total	7440-38-2	0.008	mg/L	0.001	07/09/2002	18:17	ALP	EPA 7060A
Cadmium, Total	7440-43-9	0.00077	mg/L	0.0001	07/11/2002	19:01	ALP	EPA 7131A
Chloride, Total	16887-00-6	7.0	mg/L	1.	07/17/2002	14:35	ADP	EPA 325.2
Cobalt, Total	7440-48-4	0.014	mg/L	0.001	07/10/2002	9:57	ALP	EPA 7201
Chromium, Total	7440-47-3	0.003	mg/L	0.001	07/08/2002	20:44	ALP	EPA 7191
Fluoride, Total	16984-48-8	< MDL	mg/L	0.1	07/16/2002	17:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	07/10/2002	14:37	ALB	EPA 7470A
Potassium, Total	7440-09-7	9.6	mg/L	0.1	07/13/2002	17:38	ALP	EPA 7610
Sodium, Total	7440-23-5	5.4	mg/L	0.1	07/13/2002	15:08	ALP	EPA 7770
Nickel, Total	7440-02-0	0.011	mg/L	0.001	07/25/2002	8:46	ALP	EPA 7521
Lead, Total	7439-92-1	0.0026	mg/L	0.001	07/24/2002	13:40	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	07/23/2002	14:08	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	07/11/2002	1:49	ALP	EPA 7740
Sulfate, Total	14808-79-8	1500	mg/L	1.	07/17/2002	9:50	JMT	EPA 375.4
Filterable Residue		2500.	mg/L	10.	07/03/2002	13:28	JAN	EPA 160.1
Inorganic Carbon, Total		27.	mg/L	1.	07/16/2002	15:45	ADP	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	07/15/2002	13:40	ALP	EPA 7841
Non-Filterable Residue		68.	mg/L	1.	07/03/2002	10:01	JAN	EPA 160.2
Total Kjeldahl Nitrogen		7.6	mg/L	0.02	07/22/2002	16:03	GMP	EPA 351.2



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Data Report Nu 020729-13
Report of Re STD_SORT

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Phone: (423) 697 - 4318 • Fax: (423) 697 - 4137

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Location Code: KIF-6A

Field ID: KSW-6A-062802

Sample Description: GROUNDWATER

Sample I AC10575 LRF ID: 02070025
Matri Water Reg: RCRA
Date Collec: 06/28/2002
Time Collec: 15:20 EST
Date Receiv: 07/02/2002
Time Receiv: 10:47
Project Man: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Ammonia as N	7664-41-7	7.6	mg/L	0.01	07/05/2002	14:06	ADP	EPA 350.1
Nitrate-Nitrite as N		< MDL	mg/L	0.01	07/05/2002	14:06	ADP	EPA 353.2

Sample Comments: Latitude:
Longitude:



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Phone: (423) 697 - 4318 • Fax: (423) 697 - 4137

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Sample I AC10576 LRF ID: 02070025
Matri Water Reg: RCRA

Date Collec 06/28/2002
Time Collec 13:44 EST
Date Receiv 07/02/2002
Time Receiv 10:47

Location Code: KIF-13B

Field ID: KSW-13B-062802

Sample Description: GROUNDWATER

Project Man: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	< MDL	mg/L	0.05	07/24/2002	17:57	LMJ	EPA 6010B
Calcium, Total	7440-70-2	12	mg/L	0.1	07/24/2002	17:57	LMJ	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	07/24/2002	17:57	LMJ	EPA 6010B
Iron, Total	7439-89-6	0.05	mg/L	0.01	07/24/2002	17:57	LMJ	EPA 6010B
Magnesium, Total	7439-95-4	1.7	mg/L	0.01	07/24/2002	17:57	LMJ	EPA 6010B
Manganese, Total	7439-96-5	0.051	mg/L	0.005	07/24/2002	17:57	LMJ	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	07/24/2002	17:57	LMJ	EPA 6010B
Barium, Total	7440-39-3	0.03	mg/L	0.01	07/02/2002	15:45	LRP	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	07/02/2002	15:45	LRP	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	07/02/2002	15:45	LRP	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	07/02/2002	15:45	LRP	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	07/02/2002	15:45	LRP	EPA 6010B
Strontium, Total	7440-24-6	0.069	mg/L	0.05	07/02/2002	15:45	LRP	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	07/02/2002	15:45	LRP	EPA 6010B
Titanium, Total	7440-32-6	0.0095	mg/L	0.005	07/02/2002	15:45	LRP	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	07/02/2002	15:45	LRP	EPA 6010B
Arsenic, Total	7440-38-2	0.002	mg/L	0.001	07/09/2002	18:24	ALP	EPA 7060A
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	07/11/2002	19:06	ALP	EPA 7131A
Chloride, Total	16887-00-6	1.6	mg/L	1.	07/17/2002	14:35	ADP	EPA 325.2
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	07/12/2002	17:48	ALP	EPA 7201
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	07/08/2002	20:54	ALP	EPA 7191
Fluoride, Total	16984-48-8	0.18	mg/L	0.1	07/16/2002	17:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	07/10/2002	14:40	ALB	EPA 7470A
Potassium, Total	7440-09-7	1.5	mg/L	0.1	07/13/2002	17:39	ALP	EPA 7610
Sodium, Total	7440-23-5	49	mg/L	0.1	07/13/2002	15:55	ALP	EPA 7770
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	07/26/2002	10:53	ALP	EPA 7521
Lead, Total	7439-92-1	< MDL	mg/L	0.001	07/24/2002	13:46	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	07/15/2002	16:26	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	07/11/2002	1:55	ALP	EPA 7740
Sulfate, Total	14808-79-8	3.0	mg/L	1.	07/17/2002	9:50	JMT	EPA 375.4
Filterable Residue		220.	mg/L	10.	07/03/2002	13:29	JAN	EPA 160.1
Inorganic Carbon, Total		46.	mg/L	1.	07/16/2002	15:51	ADP	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	07/15/2002	13:47	ALP	EPA 7841
Non-Filterable Residue		< MDL	mg/L	1.	07/03/2002	10:01	JAN	EPA 160.2
Total Kjeldahl Nitrogen		0.13	mg/L	0.02	07/22/2002	16:03	GMP	EPA 351.2



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Data Report Nu 020729-13
Report of Re STD_SORT

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Phone: (423) 697 - 4318 • Fax: (423) 697 - 4137

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Location Code: KIF-13B
Field ID: KSW-13B-062802

Sample Description: GROUNDWATER

Sample I AC10576 LRF ID: 02070025
Matri Water Reg: RCRA
Date Collec: 06/28/2002
Time Collec: 13:44 EST
Date Receiv: 07/02/2002
Time Receiv: 10:47
Project Man: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Ammonia as N	7664-41-7	0.11	mg/L	0.01	07/05/2002	14:06	ADP	EPA 350.1
Nitrate-Nitrite as N		< MDL	mg/L	0.01	07/05/2002	14:06	ADP	EPA 353.2

Sample Comments: Latitude:
Longitude:



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Data Report No. 020729-13
Report of Re STD_SORT

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Phone: (423) 697 - 4318 • Fax: (423) 697 - 4137

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Sample I AC10577 LRF ID: 02070025
Matri Water Reg: RCRA

Date Collec: 06/28/2002
Time Collec: 14:55 EST
Date Receiv: 07/02/2002
Time Receiv: 10:47

Location Code: KIF-16A

Field ID: KSW-16A-062802

Sample Description: GROUNDWATER

Project Man: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	0.28	mg/L	0.05	07/24/2002	18:10	LMJ	EPA 6010B
Calcium, Total	7440-70-2	43	mg/L	0.1	07/24/2002	18:10	LMJ	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	07/24/2002	18:10	LMJ	EPA 6010B
Iron, Total	7439-89-6	1.0	mg/L	0.01	07/24/2002	18:10	LMJ	EPA 6010B
Magnesium, Total	7439-95-4	10	mg/L	0.01	07/24/2002	18:10	LMJ	EPA 6010B
Manganese, Total	7439-96-5	1.2	mg/L	0.005	07/24/2002	18:10	LMJ	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	07/24/2002	18:10	LMJ	EPA 6010B
Barium, Total	7440-39-3	0.05	mg/L	0.01	07/19/2002	15:29	LMJ	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	07/19/2002	15:29	LMJ	EPA 6010B
Boron, Total	7440-42-8	0.28	mg/L	0.2	07/19/2002	15:29	LMJ	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	07/19/2002	15:29	LMJ	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	07/19/2002	15:29	LMJ	EPA 6010B
Strontium, Total	7440-24-6	0.31	mg/L	0.05	07/19/2002	15:29	LMJ	EPA 6010B
Tin, Total	7440-31-5	0.38	mg/L	0.05	07/19/2002	15:29	LMJ	EPA 6010B
Titanium, Total	7440-32-6	0.007	mg/L	0.005	07/19/2002	15:29	LMJ	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	07/19/2002	15:29	LMJ	EPA 6010B
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	07/09/2002	18:31	ALP	EPA 7060A
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	07/11/2002	19:12	ALP	EPA 7131A
Chloride, Total	16887-00-6	1.1	mg/L	1.	07/17/2002	14:35	ADP	EPA 325.2
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	07/09/2002	0:48	ALP	EPA 7201
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	07/08/2002	21:03	ALP	EPA 7191
Fluoride, Total	16984-48-8	0.44	mg/L	0.1	07/16/2002	17:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	07/10/2002	14:45	ALB	EPA 7470A
Potassium, Total	7440-09-7	1.3	mg/L	0.1	07/13/2002	17:41	ALP	EPA 7610
Sodium, Total	7440-23-5	12	mg/L	0.1	07/13/2002	15:11	ALP	EPA 7770
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	07/25/2002	8:57	ALP	EPA 7521
Lead, Total	7439-92-1	< MDL	mg/L	0.001	07/27/2002	17:48	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	07/15/2002	16:33	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	07/11/2002	2:02	ALP	EPA 7740
Sulfate, Total	14808-79-8	44	mg/L	1.	07/17/2002	9:50	JMT	EPA 375.4
Filterable Residue		230.	mg/L	10.	07/03/2002	13:30	JAN	EPA 160.1
Inorganic Carbon, Total		39.	mg/L	1.	07/16/2002	15:57	ADP	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	07/15/2002	13:54	ALP	EPA 7841
Non-Filterable Residue		6.	mg/L	1.	07/03/2002	10:02	JAN	EPA 160.2
Total Kjeldahl Nitrogen		0.44	mg/L	0.02	07/22/2002	16:03	GMP	EPA 351.2

07/29/2002

Page 7 of 11

¹ Chemical Abstracts Service Registry Number ² Method Detection Limit

Data Report Nu 020729-13

Report of Re STD_SORT



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Phone: (423) 697 - 4318 • Fax: (423) 697 - 4137

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Location Code: KIF-16A

Field ID: KSW-16A-062802

Sample Description: GROUNDWATER

Sample I AC10577

LRF ID: 02070025

Matri Water

Reg: RCRA

Date Collec: 06/28/2002

Time Collec: 14:55 EST

Date Receiv: 07/02/2002

Time Receiv: 10:47

Project Man: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Ammonia as N	7664-41-7	0.44	mg/L	0.01	07/05/2002	14:06	ADP	EPA 350.1
Nitrate-Nitrite as N		< MDL	mg/L	0.01	07/05/2002	14:06	ADP	EPA 353.2

Sample Comments: Latitude:
Longitude:



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Phone: (423) 697 - 4318 • Fax: (423) 697 - 4137

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Sample I AC10578 LRF ID: 02070025
Matri Water Reg: RCRA

Date Collec 06/28/2002
Time Collec 14:55 EST
Date Receiv 07/02/2002
Time Receiv 10:47

Location Code: KIF-16A

Field ID: KSW-16A-062802-DUP

Sample Description: GROUNDWATER

Project Man: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	0.28	mg/L	0.05	07/24/2002	18:14	LMJ	EPA 6010B
Calcium, Total	7440-70-2	43	mg/L	0.1	07/24/2002	18:14	LMJ	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	07/24/2002	18:14	LMJ	EPA 6010B
Iron, Total	7439-89-6	0.98	mg/L	0.01	07/24/2002	18:14	LMJ	EPA 6010B
Magnesium, Total	7439-95-4	10	mg/L	0.01	07/24/2002	18:14	LMJ	EPA 6010B
Manganese, Total	7439-96-5	1.2	mg/L	0.005	07/24/2002	18:14	LMJ	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	07/24/2002	18:14	LMJ	EPA 6010B
Barium, Total	7440-39-3	0.05	mg/L	0.01	07/19/2002	15:33	LMJ	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	07/19/2002	15:33	LMJ	EPA 6010B
Boron, Total	7440-42-8	0.27	mg/L	0.2	07/19/2002	15:33	LMJ	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	07/19/2002	15:33	LMJ	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	07/19/2002	15:33	LMJ	EPA 6010B
Strontium, Total	7440-24-6	0.31	mg/L	0.05	07/19/2002	15:33	LMJ	EPA 6010B
Tin, Total	7440-31-5	0.38	mg/L	0.05	07/19/2002	15:33	LMJ	EPA 6010B
Titanium, Total	7440-32-6	0.0064	mg/L	0.005	07/19/2002	15:33	LMJ	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	07/19/2002	15:33	LMJ	EPA 6010B
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	07/09/2002	18:38	ALP	EPA 7060A
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	07/11/2002	19:18	ALP	EPA 7131A
Chloride, Total	16887-00-6	1.2	mg/L	1.	07/17/2002	14:35	ADP	EPA 325.2
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	07/09/2002	0:54	ALP	EPA 7201
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	07/08/2002	21:13	ALP	EPA 7191
Fluoride, Total	16984-48-8	0.44	mg/L	0.1	07/16/2002	17:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	07/10/2002	14:47	ALB	EPA 7470A
Potassium, Total	7440-09-7	1.4	mg/L	0.1	07/13/2002	17:42	ALP	EPA 7610
Sodium, Total	7440-23-5	12	mg/L	0.1	07/13/2002	15:13	ALP	EPA 7770
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	07/25/2002	9:02	ALP	EPA 7521
Lead, Total	7439-92-1	0.0037	mg/L	0.001	07/24/2002	13:51	ALP	EPA 7421
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	07/15/2002	16:39	ALP	EPA 7041A
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	07/11/2002	2:09	ALP	EPA 7740
Sulfate, Total	14808-79-8	42	mg/L	1.	07/17/2002	9:50	JMT	EPA 375.4
Filterable Residue		230.	mg/L	10.	07/03/2002	13:31	JAN	EPA 160.1
Inorganic Carbon, Total		38.	mg/L	1.	07/16/2002	16:03	ADP	ASTM477988
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	07/15/2002	14:01	ALP	EPA 7841
Non-Filterable Residue		6.	mg/L	1.	07/03/2002	10:02	JAN	EPA 160.2
Total Kjeldahl Nitrogen		0.41	mg/L	0.02	07/22/2002	16:03	GMP	EPA 351.2

Data Report Nu 020729-13
Report of Re STD_SORT



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Phone: (423) 697 - 4318 • Fax: (423) 697 - 4137

Customer Address: Mark Boggs, LAB 2C-N
Jack Milligan, CST17B-C
Phone: Debbie Nunn, HB 2A-C
Fax : Not Available
E-Mail: Not Available

Location Code: KIF-16A

Field ID: KSW-16A-062802-DUP

Sample Description: GROUNDWATER

Sample I AC10578

LRF ID: 02070025

Matri Water

Reg: RCRA

Date Collec: 06/28/2002

Time Collec: 14:55 EST

Date Receiv: 07/02/2002

Time Receiv: 10:47

Project Man: Scott R. McNabb

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Ammonia as N	7664-41-7	0.44	mg/L	0.01	07/05/2002	14:06	ADP	EPA 350.1
Nitrate-Nitrite as N		< MDL	mg/L	0.01	07/05/2002	14:06	ADP	EPA 353.2

Sample Comments: Latitude:
Longitude:

Environmental Chemistry Laboratory data report number 020729-134352 was electronically approved using Labworks

Enterprise Version 4.6, Build 253 on 07/29/2002 at 13:19 by Lisabeth R. Pearson

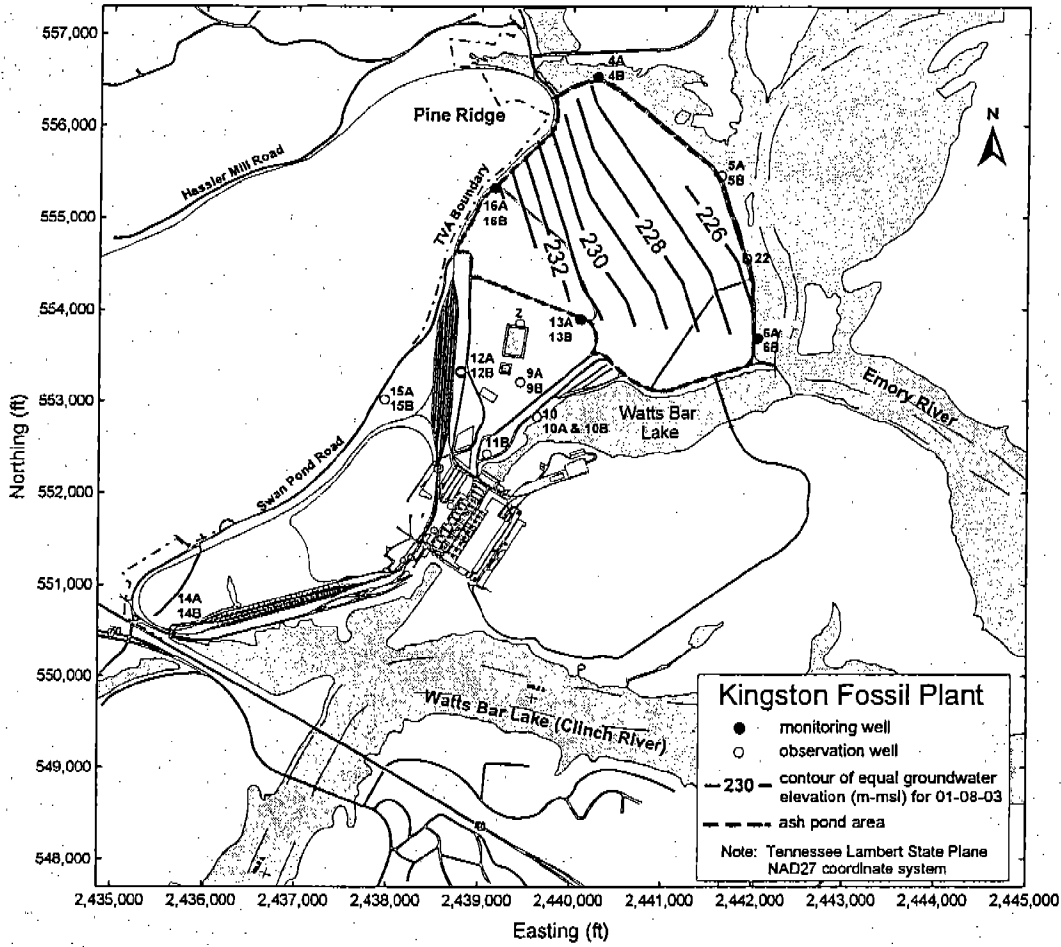
Vanessa L. Ramey, Lab Director
Pamela L. Whitt, Project Manager
Lisabeth R. Pearson, Quality Assurance Specialist
Ricardo I. Gilbert, Senior Analytical Chemist

This report contains sample results for the following samples, Login Reference File number: 02070025

AC10574
AC10575
AC10576
AC10577
AC10578

ENCLOSURE 5

**Kingston Fossil Plant
Ash Disposal Area (IDL 73-0094)
January 2003 Groundwater Monitoring Data**



Data Report Number: 30214-102228

Report of Results: Environmental



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga
Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs
LAB-N
Phone 865-632-1894
Fax : Not Available
E-Mail: jmboggs@tva.gov

Sample ID: AD00702 LRF ID: 03010156

Matrix: Water Reg: RCRA

Date Collected: 01/08/2003

Time Collected: 17:17 EST

Date Received: 01/13/2003

Time Received: 11:13

Location Code: KIF

Field ID: KSW-4B-010803

Project Manager: Lisabeth R. Pearson

Sample Description: GROUNDWATER

Analyte	CAS Number	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	1.7	mg/L	0.05	01/18/2003	19:14	LMJ	EPA 6010B
Calcium, Total	7440-70-2	170	mg/L	0.1	01/18/2003	19:14	LMJ	EPA 6010B
Copper, Total	7440-50-8	0.01	mg/L	0.01	01/18/2003	19:14	LMJ	EPA 6010B
Iron, Total	7439-89-6	2.9	mg/L	0.01	01/18/2003	19:14	LMJ	EPA 6010B
Magnesium, Total	7439-95-4	15	mg/L	0.01	01/18/2003	19:14	LMJ	EPA 6010B
Manganese, Total	7439-96-5	1.9	mg/L	0.005	01/18/2003	19:14	LMJ	EPA 6010B
Zinc, Total	7440-66-6	0.01	mg/L	0.01	01/18/2003	19:14	LMJ	EPA 6010B
Barium, Total	7440-39-3	0.06	mg/L	0.01	01/24/2003	17:12	LMJ	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	01/24/2003	17:12	LMJ	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	01/24/2003	17:12	LMJ	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	01/24/2003	17:12	LMJ	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	01/24/2003	17:12	LMJ	EPA 6010B
Strontium, Total	7440-24-6	0.38	mg/L	0.05	01/24/2003	17:12	LMJ	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	01/24/2003	17:12	LMJ	EPA 6010B
Titanium, Total	7440-32-6	< MDL	mg/L	0.005	01/24/2003	17:12	LMJ	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	01/24/2003	17:12	LMJ	EPA 6010B
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	01/16/2003	11:21	ALP	EPA 7041A
Arsenic, Total	7440-38-2	0.004	mg/L	0.001	01/18/2003	16:14	ALP	EPA 7060A
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	01/18/2003	16:15	ALP	EPA 7131A
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/15/2003	10:10	ALP	EPA 7191
Cobalt, Total	7440-48-4	0.0048	mg/L	0.001	01/24/2003	14:54	ALP	EPA 7201
Lead, Total	7439-92-1	< MDL	mg/L	0.001	01/15/2003	18:42	ALP	EPA 7421
Nickel, Total	7440-02-0	0.0079	mg/L	0.001	01/17/2003	19:20	ALP	EPA 7521
Selenium, Total	7782-49-2	0.0022	mg/L	0.001	01/15/2003	10:08	ALP	EPA 7740
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/24/2003	11:02	ALP	EPA 7841
Potassium, Total	7440-09-7	6.5	mg/L	0.1	01/29/2003	13:36	ALP	EPA 7610
Sodium, Total	7440-23-5	6.	mg/L	0.1	01/24/2003	9:12	ALP	EPA 7770
Chloride, Total	16887-00-6	3.6	mg/L	1.	01/24/2003	14:36	GMP	EPA 325.2
Fluoride, Total	16984-48-8	0.15	mg/L	0.1	01/28/2003	13:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	01/21/2003	14:34	ALB	EPA 7470A
Sulfate, Total	14808-79-8	270	mg/L	1.	01/22/2003	10:00	GMP	EPA 375.4
Filterable Residue		690.	mg/L	10.	01/14/2003	9:16	AJH	EPA 160.1
Non-Filterable Residue		72.	mg/L	1.	01/14/2003	7:23	AJH	EPA 160.2
Inorganic Carbon, Total		64.	mg/L	1.	01/24/2003	14:45	ADP	ASTM477988
Ammonia as N	7664-41-7	< MDL	mg/L	0.01	01/14/2003	11:25	ADP	EPA 350.1

02/14/2003

Page 1 of 14

¹ Chemical Abstracts Service Registry Number ² Method Detection Limit

TVA-00026602



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**

**1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**
Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Data Report Number: 30214-102228
Report of Results: Environmental

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga
Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs
LAB-N
Phone 865-632-1894
Fax : Not Available
E-Mail: jmboggs@tva.gov

Location Code: KIF

Field ID: KSW-4B-010803

Sample Description: GROUNDWATER

Sample ID: AD00702 **LRF ID:** 03010156
Matrix: Water **Reg:** RCRA

Date Collected: 01/08/2003

Time Collected: 17:17 EST

Date Received: 01/13/2003

Time Received: 11:13

Project Manager: Lisabeth R. Pearson

Analyte	CAS Number	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Nitrate-Nitrite as N		0.02	mg/L	0.01	01/14/2003	13:48	ADP	EPA 353.2
Total Kjeldahl Nitrogen		0.49	mg/L	0.02	01/16/2003	14:01	GMP	EPA 351.2

Sample Comments: None

Data Report Number: 30214-102228

Report of Results: Environmental



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**

1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:

Chickamauga Power Service Center

North Side Chickamauga

Reservation

Chattanooga, Tennessee 37415

Customer Address: Mark Boggs

LAB-N

Phone 865-632-1894

Fax : Not Available

E-Mail: jmboggs@tva.gov

Sample ID: AD00703

LRF ID: 03010156

Matrix: Water

Reg: RCRA

Date Collected: 01/08/2003

Time Collected: 16:50 EST

Date Received: 01/13/2003

Time Received: 11:13

Location Code: KIF

Field ID: KSW-6A-010803

Project Manager: Lisabeth R. Pearson

Sample Description: GROUNDWATER

Analyte	CAS Number	Result	Units	MDL ²	Analysis Analysis		Method	
					Date	Time	Analyst	Reference
Barium, Total	7440-39-3	0.04	mg/L	0.01	01/24/2003	17:15	LMJ	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	01/24/2003	17:15	LMJ	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	01/24/2003	17:15	LMJ	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	01/24/2003	17:15	LMJ	EPA 6010B
Silver, Total	7440-22-4	0.04	mg/L	0.01	01/24/2003	17:15	LMJ	EPA 6010B
Strontium, Total	7440-24-6	1.1	mg/L	0.05	01/24/2003	17:15	LMJ	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	01/24/2003	17:15	LMJ	EPA 6010B
Titanium, Total	7440-32-6	< MDL	mg/L	0.005	01/24/2003	17:15	LMJ	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	01/24/2003	17:15	LMJ	EPA 6010B
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	01/16/2003	11:28	ALP	EPA 7041A
Arsenic, Total	7440-38-2	0.006	mg/L	0.001	01/18/2003	16:20	ALP	EPA 7060A
Cadmium, Total	7440-43-9	0.0014	mg/L	0.0001	01/18/2003	16:20	ALP	EPA 7131A
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/15/2003	10:20	ALP	EPA 7191
Cobalt, Total	7440-48-4	0.0066	mg/L	0.001	01/24/2003	15:00	ALP	EPA 7201
Lead, Total	7439-92-1	< MDL	mg/L	0.001	01/15/2003	18:47	ALP	EPA 7421
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	01/17/2003	19:26	ALP	EPA 7521
Selenium, Total	7782-49-2	0.0041	mg/L	0.001	01/15/2003	10:14	ALP	EPA 7740
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/24/2003	11:09	ALP	EPA 7841
Potassium, Total	7440-09-7	16	mg/L	0.1	01/29/2003	13:37	ALP	EPA 7610
Sodium, Total	7440-23-5	8.4	mg/L	0.1	01/24/2003	9:13	ALP	EPA 7770
Chloride, Total	16887-00-6	6.7	mg/L	1.	01/24/2003	14:36	GMP	EPA 325.2
Fluoride, Total	16984-48-8	< MDL	mg/L	0.1	01/28/2003	13:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	01/21/2003	14:36	ALB	EPA 7470A
Sulfate, Total	14808-79-8	990	mg/L	1.	01/22/2003	10:00	GMP	EPA 375.4
Filterable Residue		1700.	mg/L	10.	01/14/2003	9:16	AJH	EPA 160.1
Non-Filterable Residue		55.	mg/L	1.	01/14/2003	7:23	AJH	EPA 160.2
Inorganic Carbon, Total		28.	mg/L	1.	01/24/2003	14:56	ADP	ASTM477988
Ammonia as N	7664-41-7	3.6	mg/L	0.01	01/14/2003	11:25	ADP	EPA 350.1
Nitrate-Nitrite as N		0.03	mg/L	0.01	01/14/2003	13:48	ADP	EPA 353.2
Total Kjeldahl Nitrogen		3.8	mg/L	0.02	01/16/2003	14:01	GMP	EPA 351.2
Aluminum, Total	7429-90-5	0.86	mg/L	0.05	01/18/2003	19:18	LMJ	EPA 6010B
Calcium, Total	7440-70-2	170	mg/L	0.1	01/18/2003	19:18	LMJ	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	01/18/2003	19:18	LMJ	EPA 6010B
Iron, Total	7439-89-6	230	mg/L	0.1	01/18/2003	19:18	LMJ	EPA 6010B
Magnesium, Total	7439-95-4	27	mg/L	0.01	01/18/2003	19:18	LMJ	EPA 6010B

02/14/2003

Page 3 of 14

¹ Chemical Abstracts Service Registry Number ² Method Detection Limit

TVA-00026604



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**

**1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Data Report Number: 30214-102228

Report of Results: Environmental

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga
Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs
LAB-N
Phone 865-632-1894
Fax : Not Available
E-Mail: jmboggs@tva.gov

Location Code: KIF

Field ID: KSW-6A-010803

Sample Description: GROUNDWATER

Sample ID: AD00703 **IRF ID:** 03010156

Matrix: Water **Reg:** RCRA

Date Collected: 01/08/2003

Time Collected: 16:50 EST

Date Received: 01/13/2003

Time Received: 11:13

Project Manager: Lisabeth R. Pearson

Analyte	CAS Number	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Manganese, Total	7439-96-5	35	mg/L	0.005	01/18/2003	19:18	LMJ	EPA 6010B
Zinc, Total	7440-66-6	0.34	mg/L	0.01	01/18/2003	19:18	LMJ	EPA 6010B

Sample Comments: None

Data Report Number: 30214-102228
 Report of Results: Environmental



TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
 1101 Market Street, PSC 1B-C
 Chattanooga, Tennessee 37402-2801
 Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:
 Chickamauga Power Service Center
 North Side Chickamauga
 Reservation
 Chattanooga, Tennessee 37415

Customer Address: Mark Boggs
 LAB-N
 Phone 865-632-1894
 Fax : Not Available
 E-Mail: jmboggs@tva.gov

Sample ID: AD00704 LRF ID: 03010156
 Matrix: Water Reg: RCRA
 Date Collected: 01/08/2003
 Time Collected: 15:27 EST
 Date Received: 01/13/2003
 Time Received: 11:13
 Project Manager: Lisabeth R. Pearson

Location Code: KIF

Field ID: KSW-13B-010803

Sample Description: GROUNDWATER

Analyte	CAS Number	Result	Units	MDL ²	Analysis Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	< MDL	mg/L	0.05	01/18/2003	19:21	LMJ	EPA 6010B
Calcium, Total	7440-70-2	12	mg/L	0.1	01/18/2003	19:21	LMJ	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	01/18/2003	19:21	LMJ	EPA 6010B
Iron, Total	7439-89-6	0.12	mg/L	0.01	01/18/2003	19:21	LMJ	EPA 6010B
Magnesium, Total	7439-95-4	1.6	mg/L	0.01	01/18/2003	19:21	LMJ	EPA 6010B
Manganese, Total	7439-96-5	0.059	mg/L	0.005	01/18/2003	19:21	LMJ	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	01/18/2003	19:21	LMJ	EPA 6010B
Barium, Total	7440-39-3	0.31	mg/L	0.01	01/24/2003	17:26	LMJ	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	01/24/2003	17:26	LMJ	EPA 6010B
Boron, Total	7440-42-8	0.2	mg/L	0.2	01/24/2003	17:26	LMJ	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	01/24/2003	17:26	LMJ	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	01/24/2003	17:26	LMJ	EPA 6010B
Strontium, Total	7440-24-6	0.25	mg/L	0.05	01/24/2003	17:26	LMJ	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	01/24/2003	17:26	LMJ	EPA 6010B
Titanium, Total	7440-32-6	< MDL	mg/L	0.005	01/24/2003	17:26	LMJ	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	01/24/2003	17:26	LMJ	EPA 6010B
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	01/16/2003	11:35	ALP	EPA 7041A
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	01/18/2003	16:27	ALP	EPA 7060A
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	01/18/2003	16:26	ALP	EPA 7131A
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/15/2003	10:29	ALP	EPA 7191
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	01/24/2003	15:06	ALP	EPA 7201
Lead, Total	7439-92-1	< MDL	mg/L	0.001	01/15/2003	18:53	ALP	EPA 7421
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	01/17/2003	19:33	ALP	EPA 7521
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/15/2003	10:20	ALP	EPA 7740
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/24/2003	11:15	ALP	EPA 7841
Potassium, Total	7440-09-7	2.2	mg/L	0.1	01/29/2003	13:39	ALP	EPA 7610
Sodium, Total	7440-23-5	62	mg/L	0.1	01/28/2003	13:46	ALP	EPA 7770
Chloride, Total	16887-00-6	1.5	mg/L	1.	01/24/2003	14:36	GMP	EPA 325.2
Fluoride, Total	16984-48-8	0.18	mg/L	0.1	01/28/2003	13:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	01/21/2003	14:38	ALB	EPA 7470A
Sulfate, Total	14808-79-8	3.5	mg/L	1.	01/22/2003	10:00	GMP	EPA 375.4
Filterable Residue		230.	mg/L	10.	01/14/2003	9:17	AJH	EPA 160.1
Non-Filterable Residue		2.	mg/L	1.	01/14/2003	7:23	AJH	EPA 160.2
Inorganic Carbon, Total		47.	mg/L	1.	01/24/2003	15:08	ADP	ASTM477988
Ammonia as N	7664-41-7	0.13	mg/L	0.01	01/14/2003	11:25	ADP	EPA 350.1



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**

**1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**
Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Data Report Number: 30214-102228
Report of Results: Environmental

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga
Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs
LAB-N
Phone 865-632-1894
Fax : Not Available
E-Mail: jmboggs@tva.gov

Location Code: KIF

Field ID: KSW-13B-010803

Sample Description: GROUNDWATER

Sample ID: AD00704 LRF ID: 03010156

Matrix: Water Reg: RCRA

Date Collected: 01/08/2003

Time Collected: 15:27 EST

Date Received: 01/13/2003

Time Received: 11:13

Project Manager: Lisabeth R. Pearson

Analyte	CAS Number	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Nitrate-Nitrite as N		< MDL	mg/L	0.01	01/14/2003	13:48	ADP	EPA 353.2
Total Kjeldahl Nitrogen		0.15	mg/L	0.02	01/16/2003	14:01	GMP	EPA 351.2

Sample Comments: None

Data Report Number: 30214-102228

Report of Results: Environmental


**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**
**1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:

Chickamauga Power Service Center

North Side Chickamauga

Reservation

Chattanooga, Tennessee 37415

Customer Address: Mark Boggs
LAB-N
Phone 865-632-1894
Fax : Not Available
E-Mail: jmboggs@tva.gov

Sample ID: AD00705 LRF ID: 03010156

Matrix: Water Reg: RCRA

Date Collected: 01/08/2003

Time Collected: 15:27 EST

Date Received: 01/13/2003

Time Received: 11:13

Location Code: KIF

Field ID: KSW-13B-010803-DUP

Sample Description: GROUNDWATER

Project Manager: Lisabeth R. Pearson

Analyte	CAS Number	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	< MDL	mg/L	0.05	01/18/2003	19:25	LMJ	EPA 6010B
Calcium, Total	7440-70-2	12	mg/L	0.1	01/18/2003	19:25	LMJ	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	01/18/2003	19:25	LMJ	EPA 6010B
Iron, Total	7439-89-6	0.08	mg/L	0.01	01/18/2003	19:25	LMJ	EPA 6010B
Magnesium, Total	7439-95-4	1.6	mg/L	0.01	01/18/2003	19:25	LMJ	EPA 6010B
Manganese, Total	7439-96-5	0.054	mg/L	0.005	01/18/2003	19:25	LMJ	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	01/18/2003	19:25	LMJ	EPA 6010B
Barium, Total	7440-39-3	0.32	mg/L	0.01	01/24/2003	17:30	LMJ	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	01/24/2003	17:30	LMJ	EPA 6010B
Boron, Total	7440-42-8	0.2	mg/L	0.2	01/24/2003	17:30	LMJ	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	01/24/2003	17:30	LMJ	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	01/24/2003	17:30	LMJ	EPA 6010B
Strontium, Total	7440-24-6	0.25	mg/L	0.05	01/24/2003	17:30	LMJ	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	01/24/2003	17:30	LMJ	EPA 6010B
Titanium, Total	7440-32-6	< MDL	mg/L	0.005	01/24/2003	17:30	LMJ	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	01/24/2003	17:30	LMJ	EPA 6010B
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	01/16/2003	11:41	ALP	EPA 7041A
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	01/18/2003	16:34	ALP	EPA 7060A
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	01/18/2003	16:33	ALP	EPA 7131A
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/15/2003	10:39	ALP	EPA 7191
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	01/24/2003	15:12	ALP	EPA 7201
Lead, Total	7439-92-1	< MDL	mg/L	0.001	01/15/2003	18:58	ALP	EPA 7421
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	01/17/2003	19:39	ALP	EPA 7521
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/15/2003	10:26	ALP	EPA 7740
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/24/2003	11:22	ALP	EPA 7841
Potassium, Total	7440-09-7	2.2	mg/L	0.1	01/29/2003	13:40	ALP	EPA 7610
Sodium, Total	7440-23-5	72	mg/L	0.1	01/28/2003	13:48	ALP	EPA 7770
Chloride, Total	16887-00-6	1.6	mg/L	1.	01/24/2003	14:36	GMP	EPA 325.2
Fluoride, Total	16984-48-8	0.19	mg/L	0.1	01/28/2003	13:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	01/21/2003	14:45	ALB	EPA 7470A
Sulfate, Total	14808-79-8	3.7	mg/L	1.	01/22/2003	10:00	GMP	EPA 375.4
Filterable Residue		220.	mg/L	10.	01/14/2003	9:17	AJH	EPA 160.1
Non-Filterable Residue		< MDL	mg/L	1.	01/14/2003	7:23	AJH	EPA 160.2
Inorganic Carbon, Total		47.	mg/L	1.	01/24/2003	15:19	ADP	ASTM477988
Ammonia as N	7664-41-7	0.13	mg/L	0.01	01/14/2003	11:25	ADP	EPA 350.1

02/14/2003

Page 7 of 14

¹ Chemical Abstracts Service Registry Number ² Method Detection Limit

TVA-00026608

Data Report Number: 30214-102228
Report of Results: Environmental



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801
Phone: (423) 876 - 4318 - Fax: (423) 876 - 4137

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga
Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs
LAB-N
Phone 865-632-1894
Fax : Not Available
E-Mail: jmboggs@tva.gov

Location Code: KIF
Field ID: KSW-13B-010803-DUP
Sample Description: GROUNDWATER

Sample ID: AD00705 LRF ID: 03010156
Matrix: Water Reg: RCRA
Date Collected: 01/08/2003
Time Collected: 15:27 EST
Date Received: 01/13/2003
Time Received: 11:13
Project Manager: Lisabeth R. Pearson

Analyte	CAS Number	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Nitrate-Nitrite as N		< MDL	mg/L	0.01	01/14/2003	13:48	ADP	EPA 353.2
Total Kjeldahl Nitrogen		0.17	mg/L	0.02	01/16/2003	14:01	GMP	EPA 351.2

Sample Comments: None

Data Report Number: 30214-102228

Report of Results: Environmental



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES
1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga
Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs
LAB-N
Phone 865-632-1894
Fax : Not Available
E-Mail: jmboggs@tva.gov

Location Code: KIF

Field ID: KSW-16A-010803

Sample Description: GROUNDWATER

Sample ID: AD00706

LRF ID: 03010156

Matrix: Water

Reg: RCRA

Date Collected: 01/08/2003

Time Collected: 16:30 EST

Date Received: 01/13/2003

Time Received: 11:13

Project Manager: Lisabeth R. Pearson

Analyte	CAS Number	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	< MDL	mg/L	0.05	01/18/2003	19:28	LMJ	EPA 6010B
Calcium, Total	7440-70-2	42	mg/L	0.1	01/18/2003	19:28	LMJ	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	01/18/2003	19:28	LMJ	EPA 6010B
Iron, Total	7439-89-6	0.84	mg/L	0.01	01/18/2003	19:28	LMJ	EPA 6010B
Magnesium, Total	7439-95-4	9.0	mg/L	0.01	01/18/2003	19:28	LMJ	EPA 6010B
Manganese, Total	7439-96-5	1.2	mg/L	0.005	01/18/2003	19:28	LMJ	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	01/18/2003	19:28	LMJ	EPA 6010B
Barium, Total	7440-39-3	0.05	mg/L	0.01	01/24/2003	17:33	LMJ	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	01/24/2003	17:33	LMJ	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	01/24/2003	17:33	LMJ	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	01/24/2003	17:33	LMJ	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	01/24/2003	17:33	LMJ	EPA 6010B
Strontium, Total	7440-24-6	0.29	mg/L	0.05	01/24/2003	17:33	LMJ	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	01/24/2003	17:33	LMJ	EPA 6010B
Titanium, Total	7440-32-6	< MDL	mg/L	0.005	01/24/2003	17:33	LMJ	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	01/24/2003	17:33	LMJ	EPA 6010B
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	01/16/2003	11:48	ALP	EPA 7041A
Arsenic, Total	7440-38-2	0.006	mg/L	0.001	01/18/2003	16:41	ALP	EPA 7060A
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	01/18/2003	16:39	ALP	EPA 7131A
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/15/2003	10:49	ALP	EPA 7191
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	01/24/2003	15:18	ALP	EPA 7201
Lead, Total	7439-92-1	< MDL	mg/L	0.001	01/15/2003	19:04	ALP	EPA 7421
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	01/17/2003	19:45	ALP	EPA 7521
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/15/2003	10:32	ALP	EPA 7740
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/24/2003	11:29	ALP	EPA 7841
Potassium, Total	7440-09-7	2.1	mg/L	0.1	01/29/2003	13:41	ALP	EPA 7610
Sodium, Total	7440-23-5	17	mg/L	0.1	01/24/2003	9:18	ALP	EPA 7770
Chloride, Total	16887-00-6	< MDL	mg/L	1.	01/24/2003	14:36	GMP	EPA 325.2
Fluoride, Total	16984-48-8	0.42	mg/L	0.1	01/28/2003	13:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	01/21/2003	14:46	ALB	EPA 7470A
Sulfate, Total	14808-79-8	40	mg/L	1.	01/22/2003	10:00	GMP	EPA 375.4
Filterable Residue		220.	mg/L	10.	01/14/2003	9:18	AJH	EPA 160.1
Non-Filterable Residue		4.	mg/L	1.	01/14/2003	7:23	AJH	EPA 160.2
Inorganic Carbon, Total		39.	mg/L	1.	01/24/2003	15:30	ADP	ASTM477988
Ammonia as N	7664-41-7	0.45	mg/L	0.01	01/14/2003	11:25	ADP	EPA 350.1

02/14/2003

Page 9 of 14

¹ Chemical Abstracts Service Registry Number ² Method Detection Limit

TVA-00026610



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**

**1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Data Report Number: 30214-102228

Report of Results: Environmental

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga
Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs
LAB-N
Phone 865-632-1894
Fax : Not Available
E-Mail: jmboggs@tva.gov

Location Code: KIF

Field ID: KSW-16A-010803

Sample Description: GROUNDWATER

Sample ID: AD00706 LRF ID: 03010156

Matrix: Water Reg: RCRA

Date Collected: 01/08/2003

Time Collected: 16:30 EST

Date Received: 01/13/2003

Time Received: 11:13

Project Manager: Lisabeth R. Pearson

Analyte	CAS Number	Result	Units	MDL ²	Analysis		Method	
					Date	Time	Analyst	Reference
Nitrate-Nitrite as N		< MDL	mg/L	0.01	01/14/2003	13:48	ADP	EPA 353.2
Total Kjeldahl Nitrogen		0.44	mg/L	0.02	01/16/2003	14:01	GMP	EPA 351.2

Sample Comments: None



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**

**1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

**Data Report Number: 30214-102228
Report of Results: Environmental**

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga
Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs
LAB-N
Phone 865-632-1894
Fax : Not Available
E-Mail: jmboggs@tva.gov

Location Code: KIF

Field ID: KSW-22-010803

Sample Description: GROUNDWATER

Sample ID: AD00707 **LRF ID:** 03010156

Matrix: Water **Reg:** RCRA

Date Collected: 01/08/2003

Time Collected: 12:50 EST

Date Received: 01/13/2003

Time Received: 11:13

Project Manager: Lisabeth R. Pearson

Analyte	CAS Number	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Ammonia as N	7664-41-7	0.73	mg/L	0.01	01/14/2003	11:25	ADP	EPA 350.1
Nitrate-Nitrite as N		< MDL	mg/L	0.01	01/14/2003	13:48	ADP	EPA 353.2
Total Kjeldahl Nitrogen		0.74	mg/L	0.02	01/16/2003	14:01	GMP	EPA 351.2

Sample Comments: None

Data Report Number: 30214-102228

Report of Results: Environmental



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**

1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga
Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs
LAB-N
Phone 865-632-1894
Fax : Not Available
E-Mail: jmboggs@tva.gov

Sample ID: AD00708 LRF ID: 03010156

Matrix: Water Reg: RCRA

Date Collected: 01/08/2003

Time Collected: 15:45 EST

Date Received: 01/13/2003

Time Received: 11:13

Location Code: KIF

Field ID: EQUIPMENT BLANK

Project Manager: Lisabeth R. Pearson

Sample Description: GROUNDWATER

Analyte	CAS Number	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Aluminum, Total	7429-90-5	< MDL	mg/L	0.05	01/18/2003	19:32	LMJ	EPA 6010B
Calcium, Total	7440-70-2	< MDL	mg/L	0.1	01/18/2003	19:32	LMJ	EPA 6010B
Copper, Total	7440-50-8	< MDL	mg/L	0.01	01/18/2003	19:32	LMJ	EPA 6010B
Iron, Total	7439-89-6	0.04	mg/L	0.01	01/18/2003	19:32	LMJ	EPA 6010B
Magnesium, Total	7439-95-4	< MDL	mg/L	0.01	01/18/2003	19:32	LMJ	EPA 6010B
Manganese, Total	7439-96-5	< MDL	mg/L	0.005	01/18/2003	19:32	LMJ	EPA 6010B
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	01/18/2003	19:32	LMJ	EPA 6010B
Barium, Total	7440-39-3	< MDL	mg/L	0.01	01/24/2003	17:37	LMJ	EPA 6010B
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	01/24/2003	17:37	LMJ	EPA 6010B
Boron, Total	7440-42-8	< MDL	mg/L	0.2	01/24/2003	17:37	LMJ	EPA 6010B
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	01/24/2003	17:37	LMJ	EPA 6010B
Silver, Total	7440-22-4	< MDL	mg/L	0.01	01/24/2003	17:37	LMJ	EPA 6010B
Strontium, Total	7440-24-6	< MDL	mg/L	0.05	01/24/2003	17:37	LMJ	EPA 6010B
Tin, Total	7440-31-5	< MDL	mg/L	0.05	01/24/2003	17:37	LMJ	EPA 6010B
Titanium, Total	7440-32-6	< MDL	mg/L	0.005	01/24/2003	17:37	LMJ	EPA 6010B
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	01/24/2003	17:37	LMJ	EPA 6010B
Antimony, Total	7440-36-0	< MDL	mg/L	0.001	01/16/2003	11:55	ALP	EPA 7041A
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	01/20/2003	13:40	ALP	EPA 7060A
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	01/18/2003	16:45	ALP	EPA 7131A
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	01/15/2003	14:06	ALP	EPA 7191
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	01/24/2003	15:24	ALP	EPA 7201
Lead, Total	7439-92-1	< MDL	mg/L	0.001	01/15/2003	19:09	ALP	EPA 7421
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	01/27/2003	15:50	ALP	EPA 7521
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	01/15/2003	10:38	ALP	EPA 7740
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	01/24/2003	11:36	ALP	EPA 7841
Potassium, Total	7440-09-7	< MDL	mg/L	0.1	01/29/2003	13:42	ALP	EPA 7610
Sodium, Total	7440-23-5	< MDL	mg/L	0.1	01/24/2003	9:18	ALP	EPA 7770
Chloride, Total	16887-00-6	< MDL	mg/L	1.	01/24/2003	14:36	GMP	EPA 325.2
Fluoride, Total	16984-48-8	< MDL	mg/L	0.1	01/28/2003	13:00	GMP	EPA 340.2
Mercury, Total	7439-97-6	< MDL	mg/L	0.0001	01/21/2003	14:48	ALB	EPA 7470A
Sulfate, Total	14808-79-8	< MDL	mg/L	1.	01/22/2003	10:00	GMP	EPA 375.4
Filterable Residue		< MDL	mg/L	10.	01/14/2003	9:16	AJH	EPA 160.1
Non-Filterable Residue		1.	mg/L	1.	01/14/2003	7:23	AJH	EPA 160.2
Inorganic Carbon, Total		< MDL	mg/L	1.	01/24/2003	15:42	ADP	ASTM477988
Ammonia as N	7664-41-7	< MDL	mg/L	0.01	01/14/2003	11:25	ADP	EPA 350.1

02/14/2003

Page 12 of 14

¹ Chemical Abstracts Service Registry Number² Method Detection Limit

TVA-00026613



**TENNESSEE VALLEY AUTHORITY
CENTRAL LABORATORIES SERVICES**

**1101 Market Street, PSC 1B-C
Chattanooga, Tennessee 37402-2801**

Phone: (423) 876 - 4318 • Fax: (423) 876 - 4137

Data Report Number: 30214-102228

Report of Results: Environmental

Shipping Address:
Chickamauga Power Service Center
North Side Chickamauga
Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs
LAB-N
Phone 865-632-1894
Fax : Not Available
E-Mail: jmboggs@tva.gov

Location Code: KIF

Field ID: EQUIPMENT BLANK

Sample Description: GROUNDWATER

Sample ID: AD00708 **LRF ID:** 03010156

Matrix: Water **Reg:** RCRA

Date Collected: 01/08/2003

Time Collected: 15:45 EST

Date Received: 01/13/2003

Time Received: 11:13

Project Manager: Lisabeth R. Pearson

Analyte	CAS Number	Result	Units	MDL ²	Analysis		Analyst	Method Reference
					Date	Time		
Nitrate-Nitrite as N		< MDL	mg/L	0.01	01/14/2003	13:48	ADP	EPA 353.2
Total Kjeldahl Nitrogen		0.02	mg/L	0.02	01/16/2003	14:01	GMP	EPA 351.2

Sample Comments: None

Data Report Number: 30214-102228
Report of Results: Environmental

Central Laboratories Services data report number 030214-102228 was electronically approved using Labworks

Enterprise Version 4.6, Build 253 on 01/31/2003 at 16:36 by Pamela L. Whitt

Vanessa L. Ramey, Lab Director
Pamela L. Whitt, Project Manager
Lisabeth R. Pearson, Quality Assurance Specialist
Ricardo I. Gilbert, Senior Analytical Chemist

This report contains sample results for the following samples, Login Reference File number: 03010156

- AD00702
- AD00703
- AD00704
- AD00705
- AD00706
- AD00707
- AD00708