



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

July 14, 2006

Mr. David Fugate, P.G.
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TENNESSEE VALLEY AUTHORITY – KINGSTON FOSSIL PLANT – ASH DISPOSAL AREA – IDL
73-0094 – JUNE 2006 GROUNDWATER MONITORING REPORT

Dear Mr. Fugate:

Please find enclosed the groundwater monitoring report for samples collected June 6, 2006 at designated compliance wells surrounding the subject facility. Laboratory data from the analyses of samples collected during this monitoring event is summarized in Table 1. Analytical results indicate there were no primary MCL or statistical exceedences in any of the samples.

Other supporting information with this submittal includes:

- A description of groundwater conditions at the time of sampling including a potentiometric surface map based on water-level measurements made on June 6, 2006 in wells located in vicinity of the facility (Figure 1).
- Field Data Sheets (Appendix A).
- Sample custody record (Appendix B).
- Laboratory Data Sheets (Appendix C).

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.

If you have questions regarding the report, please contact Amos Smith at (423) 751-3522 or Linda Campbell at (865) 717-2157.

A handwritten signature in black ink, appearing to read "Steven C. Strunk".
Steven C. Strunk
Acting Manager of Permitted Programs
Environmental Affairs
5D Lookout Place

Enclosures

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

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**Tennessee Valley Authority
Kingston Fossil Plant
Ash Disposal Area (IDL 73-0094)**

**GROUNDWATER MONITORING REPORT
JUNE 2006 SAMPLING EVENT**

Prepared by



J. Mark Boggs, PG (3671)

**Tennessee Valley Authority
Knoxville, Tennessee**

July 14, 2006

TABLE OF CONTENTS

	Page
INTRODUCTION.....	1
GROUNDWATER SAMPLING.....	1
ANALYTICAL RESULTS.....	2
STATISTICAL EVALUATION.....	2
HYDROGEOLOGIC CONDITIONS	2
CONCLUSIONS.....	5

APPENDICES

- A. Field Data Sheets
- B. Sample Custody Record
- C. Laboratory Data Sheets

LIST OF TABLES

1. June 6, 2006 Groundwater Monitoring Results.....	3
2. Groundwater Levels Measured June 6, 2006	5

LIST OF FIGURES

1. Groundwater Potentiometric Surface on June 6, 2006	6
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INTRODUCTION

This report contains groundwater monitoring results for samples collected on June 6, 2006 from the four designated compliance wells surrounding the Kingston Fossil Plant (KIF) ash disposal area. These data represent the second set of compliance monitoring data for the facility following two years of quarterly baseline monitoring. Groundwater samples were analyzed by the TVA Environmental Chemistry Laboratory, an EPA-certified laboratory. Sample collection and laboratory analyses were performed in accordance with Tennessee Department of Conservation and Environment (TDEC) Rule 1200-1-7-.04 and the facility groundwater monitoring plan approved by TDEC (August 1996).

GROUNDWATER SAMPLING

Groundwater sampling was performed by J.E. Stockburger and S.W. Hickman at upgradient well 16A and downgradient wells 4B, 6A and 13B. Dedicated Grundfos Rediflow submersible pumps were used for purging and sampling all wells. Duplicate samples were collected from well 13B, and an equipment blank was collected after well 6A. Field parameters (i.e., temperature, specific conductance, pH, dissolved oxygen, and oxidation-reduction potential) were monitored during well purging using a flow-through cell and calibrated instruments. Each well was considered properly evacuated when field parameters remained stable during purging a minimum of two well volumes or the well was purged to dryness. Field data sheets are included in Appendix A.

Please note that no samples of leachate were collected from the disposal facility. As described in the Facility Operations Manual, engineering measures incorporated in the facility design should result in minimal ash leachate production. Therefore, leachate sampling is not included in the approved groundwater monitoring plan.

Immediately following collection, samples were transferred to new sample bottles provided by the laboratory with appropriate preservatives, where applicable. The samples were then sealed, labeled, recorded on a custody form, and placed in an iced cooler for transport. Samples were delivered to the TVA Environmental Chemistry Laboratory on June 9. A copy of the sample custody form is given in Appendix B.

ANALYTICAL RESULTS

Groundwater samples were analyzed for the 17 required inorganic constituents specified in Appendix I of TDEC Rule 1200-1-7. Laboratory results completed on June 30 are summarized in Table 1. The laboratory report presented in Appendix C includes analytical methods and detection limits for each constituent. Constituent concentrations reported for all samples were below drinking water maximum contaminant limits (MCL).

All analytical testing was performed within recommended sample holding times. There were no detections of the required 17 inorganic constituents in the equipment blank.

STATISTICAL EVALUATION

Statistical analysis of the sample analytical data was performed using non-parametric prediction intervals (NPI) applied on an introwell basis. A description of the NPI method, the rationale for its selection, and specifics regarding application to the KIF facility groundwater detection monitoring program in the July 25, 2005 monitoring report. The analytical results presented in Table 1 indicate that none of the constituent concentrations for any of the groundwater samples exceed statistical upper prediction limits (UPL).

HYDROGEOLOGIC CONDITIONS

The Kingston plant site is located in the Valley and Ridge physiographic province of the Appalachian Highlands region. This region is characterized by a sequence of long narrow ridges and valleys trending northeast-southwest. In general, ridges are formed by relatively resistant sandstone, limestone, and dolomite units while the valleys are underlain by soluble limestone and easily weathered shale. The controlling structural feature of the site is a series of northeast-striking thrust faults which has forced older Cambrian and Ordovician rocks over younger units. Bedrock dips southeast at angles ranging from a few degrees to about 90 degrees.

The ash pond area is immediately underlain by Quaternary alluvium ranging in thickness from about 1.5 m along a portion of the northern perimeter of the site to maximum of

Table 1. June 6, 2006 Groundwater Monitoring Results

Parameter	Units	Analytical Results for Appendix 1 Inorganic Constituents						Upper Prediction Limit	MCL	Comparison to UPL ^a
		4B downgradient	6A downgradient	13B ^b downgradient	16A upgradient	4B upgradient	6A upgradient	13B upgradient		
Antimony	$\mu\text{g/L}$	< 3	4	< 3	< 3	6	6	6	6	L
Arsenic	$\mu\text{g/L}$	< 1	3	< 1	< 1	10	14	10	50	L
Barium	$\mu\text{g/L}$	50	90	395	50	2000	2000	2000	2,000	L
Beryllium	$\mu\text{g/L}$	< 1	< 1	< 1	< 1	4	4	4	4	L
Cadmium	$\mu\text{g/L}$	0.3	0.1	< 0.1	< 0.1	5	5	5	5	L
Chromium	$\mu\text{g/L}$	5	1	< 1	< 1	100	100	100	100	L
Cobalt	$\mu\text{g/L}$	1	< 1	< 1	< 1	23	17	6	--	L
Copper	$\mu\text{g/L}$	100	< 10	< 10	< 10	1000	1000	1000	1,000	L
Fluoride	$\mu\text{g/L}$	160	< 100	185	470	4000	4000	4000	4,000	L
Lead	$\mu\text{g/L}$	1	< 1	< 1	< 1	15	15	15	50	L
Mercury	$\mu\text{g/L}$	< 0.1	< 0.1	< 0.1	< 0.1	2	2	2	2	L
Nickel	$\mu\text{g/L}$	5	< 1	< 1	< 1	100	100	100	--	L
Selenium	$\mu\text{g/L}$	< 1	< 1	< 1	< 1	50	50	50	50	L
Silver	$\mu\text{g/L}$	< 10	< 10	< 10	< 10	100	190	100	100	L
Thallium	$\mu\text{g/L}$	< 2	2	< 2	< 2	2	2	2	2	L
Vanadium	$\mu\text{g/L}$	< 10	< 10	< 10	< 10	10	150	10	--	L
Zinc	$\mu\text{g/L}$	50	< 10	< 10	< 10	5000	5000	5000	5,000	L

a - "L" = less than or equal to UPL, "G" = greater than UPL.

b - reported concentrations are averages of duplicate samples

c - assumed UPL equal to 90th percentile of TVA valley-wide groundwater measurements

20 m on the western boundary. The alluvial deposits are unconsolidated and lenticular, and consist of clay, silt, and sand with occasional gravel. A thin layer of residuum is occasionally present directly above bedrock. The residuum is typically composed of clay and silt with weathered fissile shale fragments.

Bedrock beneath the alluvial deposits at the disposal site is primarily represented by the Conasauga Group (middle to upper Cambrian age). The only exception is a small area along the northern margin of the site underlain by the Rome formation (lower Cambrian age). Specific geologic units within the Conasauga Group represented at the site include the Nolichucky, Maryville, Rogersville, Rutledge, and Pumpkin Valley formations. These formations are locally of low water-producing capacity, and predominantly consist of shale with interbedded siltstone, limestone, and conglomerate. Total thickness of the Conasauga Group beneath the site is unknown but is estimated to be approximately 450 meters. The Rome formation is generally composed of interbedded shale, sandstone, and siltstone. The elevation of the top of rock in the ash pond area is relatively uniform, varying from approximately 213 to 218 m-MSL. Outside this area the bedrock surface rises steeply to the west and southwest. The lower bedrock terrace corresponding to the disposal area represents an erosion surface associated with the ancestral Emory River.

Groundwater movement at the site generally follows topography with groundwater flowing eastward and southeastward from Pine Ridge toward the reservoir. Groundwater originating on, or flowing beneath, the ash pond area ultimately discharges to the reservoir without traversing private property.

Groundwater levels measured in site monitoring wells on June 6 prior to sample collection are presented in Table 2. The groundwater potentiometric surface derived from these measurements is shown on Figure 1. Groundwater generally flows eastward across the ash disposal area toward the reservoir. An average hydraulic gradient of approximately 0.0073 is estimated between the western and eastern boundaries of the disposal area. The shallow alluvial aquifer underlying the ash disposal area exhibits a mean horizontal hydraulic conductivity of 0.006 m/d. The local Darcy flux is therefore estimated to be approximately 4.4×10^{-5} m/d.



Figure 1. Groundwater Potentiometric Surface on June 6, 2006

Table 2. Groundwater Levels Measured on June 6, 2006

Well No.	Top of Casing Elevation (m)	Depth to Water (m)	Water Elevation (m mls)	Well Bottom Depth (m)
4B	230.72	3.97	226.75	12.72
6A	230.13	3.44	226.69	8.88
13B	234.85	2.78	232.07	25.68
16A	234.26	0.16	234.10	20.16

CONCLUSIONS

Groundwater analytical data for the June 6 sampling event showed no statistical evidence of groundwater contamination from the ash disposal area. Concentrations of the 17 Appendix I inorganic constituents were below MCLs in all samples.

APPENDIX A
FIELD DATA SHEETS

Preliminary Groundwater Data Field Worksheet

Project Site <i>K-1 NASHVILLE</i>	Wet Number 4B	Purge Date Year 1988 Month 06 Day 22	Sheet 1 of 1																																																																																																																											
Bottom to Water (m) 12.97 Bottom of Well (m) 12.72 Well Diameter (mm) 4164	Survey Reader <i>JES</i>	Field Crew <i>BLW/T</i>																																																																																																																												
Depth of Screen <input checked="" type="checkbox"/> Open Bore Hole	Sample Type <i>KIP 6066</i>	<input checked="" type="checkbox"/> Unfiltered <input type="checkbox"/> Filtered <input type="checkbox"/> Both Filter Type and Size																																																																																																																												
(1.37) 4164	12.82 4164																																																																																																																													
Bottom of Well 12.72 m	Depth to Water 12.97 m	Volume Factor 1.07	Wet Volume 76.9 L	Total Purge Volume 141.9 L	Actual Purge Volume 93 L																																																																																																																									
Purge Pump: <input type="checkbox"/> Bladder <input checked="" type="checkbox"/> Cartridge <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/> Dedicated Other Test: <i>Deoxygenated</i> <i>No filter</i>	Sample Pump: <input checked="" type="checkbox"/> Bladder <input checked="" type="checkbox"/> Cartridge <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/> Dedicated Other Test:																																																																																																																													
<p>Notes and WG Observations</p> <table border="1"> <thead> <tr> <th>Time</th> <th>CT</th> <th>Pump Rate (L/min)</th> <th>Depth to Water (m)</th> <th>Pump Depth (m)</th> <th>Temp (°C)</th> <th>pH</th> <th>DO (mg/L)</th> <th>EC (µS/cm)</th> <th>OPP (mV)</th> <th>Turbidity (NTU)</th> </tr> </thead> <tbody> <tr><td>9:31</td><td>7:41</td><td>12.5</td><td>15.6</td><td>6.6</td><td>6.2</td><td>84.1</td><td>5.9</td><td></td><td></td><td></td></tr> <tr><td>9:33</td><td>7:41</td><td>7.6</td><td>12.5</td><td>15.7</td><td>6.6</td><td>6.1</td><td>1527</td><td>321</td><td></td><td></td></tr> <tr><td>9:38</td><td>7:20</td><td>7.6</td><td>15.8</td><td>6.6</td><td>6.3</td><td>1516</td><td>342</td><td></td><td></td><td></td></tr> <tr><td>10:47</td><td>7:2</td><td>12.5</td><td>15.6</td><td>15.7</td><td>6.6</td><td>7.1</td><td>1474</td><td></td><td></td><td></td></tr> <tr><td>10:51</td><td>7:30</td><td>12.5</td><td>16.2</td><td>6.6</td><td>6.6</td><td>3.4</td><td>1632</td><td>360</td><td></td><td></td></tr> <tr><td>10:54</td><td>7:31</td><td>12.5</td><td>16.2</td><td>6.6</td><td>7.7</td><td>1461</td><td>345</td><td></td><td></td><td></td></tr> <tr><td>11:02</td><td>7:31</td><td>7.6</td><td>12.5</td><td>17.3</td><td>6.6</td><td>3.7</td><td>1626</td><td>360</td><td></td><td></td></tr> <tr><td>11:16</td><td>7:34</td><td>12.5</td><td>16.3</td><td>16.3</td><td>6.6</td><td>4.4</td><td>1633</td><td>334</td><td></td><td></td></tr> <tr><td>11:22</td><td>7:2</td><td>12.5</td><td>16.9</td><td>6.6</td><td>6.3</td><td>1031</td><td>317</td><td></td><td></td><td></td></tr> <tr><td>11:46</td><td>7:25</td><td>12.5</td><td>17.5</td><td>6.6</td><td>6.3</td><td>1122</td><td>362</td><td></td><td></td><td></td></tr> </tbody> </table>						Time	CT	Pump Rate (L/min)	Depth to Water (m)	Pump Depth (m)	Temp (°C)	pH	DO (mg/L)	EC (µS/cm)	OPP (mV)	Turbidity (NTU)	9:31	7:41	12.5	15.6	6.6	6.2	84.1	5.9				9:33	7:41	7.6	12.5	15.7	6.6	6.1	1527	321			9:38	7:20	7.6	15.8	6.6	6.3	1516	342				10:47	7:2	12.5	15.6	15.7	6.6	7.1	1474				10:51	7:30	12.5	16.2	6.6	6.6	3.4	1632	360			10:54	7:31	12.5	16.2	6.6	7.7	1461	345				11:02	7:31	7.6	12.5	17.3	6.6	3.7	1626	360			11:16	7:34	12.5	16.3	16.3	6.6	4.4	1633	334			11:22	7:2	12.5	16.9	6.6	6.3	1031	317				11:46	7:25	12.5	17.5	6.6	6.3	1122	362			
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Remarks: *Deoxygenated*Reviewed By: *JES* Survey Reader: *JES* Data: *JES* Project Leader: *JES* Date: *JES*

Sample Collector: <i>JES</i>	Sample Readings									
Sample Date: 10/12/88 Time: 12:45	4164	12.5	15.6	6.6	6.7	1474	321	34	32	1527
Sample Type: <input checked="" type="checkbox"/> Bladder <input type="checkbox"/> Cartridge <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/> Dedicated Other Test:	Analytic	Pump Rate	Depths	Purge	Temp	pH	DO	EC	OPP	Turbidity
Analyzer: <i>JES</i>	Time	Rate	Water	Depth	Temp	pH	mg/L	µS/cm	mV	NTU
Analyzer: <i>JES</i>	10/12/88	12.5 L/min	4164	12.5 m	16.3	6.6	3.7	1626	360	360
Additional Sample Data										
Analyst: <i>JES</i>	4164	12.5	17.3	6.6	7.7	1461	345	34	32	1633
Date Analyzed: 10/12/88	4164	12.5	16.3	6.6	4.4	1031	317	31	30	1527
Time Analyzed: 12:45	4164	12.5	16.9	6.6	6.3	1122	362	36	35	1516
Turbidity (NTU): <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Highly Turbid	Time: 10/12/88	Time: 10/12/88	Time: 10/12/88	Time: 10/12/88	Time: 10/12/88	Time: 10/12/88	Time: 10/12/88	Time: 10/12/88	Time: 10/12/88	Time: 10/12/88
Bottles Required: <input checked="" type="checkbox"/> Periodic <input type="checkbox"/> Minerals <input type="checkbox"/> Periodic <input type="checkbox"/> Others (list):	1	1	1	1	1	1	1	1	1	1
Days: <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 7 <input type="checkbox"/> 14 <input type="checkbox"/> 30 <input type="checkbox"/> 60 <input type="checkbox"/> 90 <input type="checkbox"/> 120 <input type="checkbox"/> 180 <input type="checkbox"/> 240 <input type="checkbox"/> 360 <input type="checkbox"/> 540 <input type="checkbox"/> 720 <input type="checkbox"/> 1080 <input type="checkbox"/> 1440 <input type="checkbox"/> 2160 <input type="checkbox"/> 3240 <input type="checkbox"/> 4320 <input type="checkbox"/> 6480 <input type="checkbox"/> 9720 <input type="checkbox"/> 14520 <input type="checkbox"/> 21780 <input type="checkbox"/> 32670 <input type="checkbox"/> 48500 <input type="checkbox"/> 72750 <input type="checkbox"/> 109125 <input type="checkbox"/> 1636875 <input type="checkbox"/> 24553125 <input type="checkbox"/> 368296875 <input type="checkbox"/> 5524453125 <input type="checkbox"/> 82866796875 <input type="checkbox"/> 1242996484375 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Preliminary Groundwater Data Field Worksheet

Project Name KINGSTON		Well Number GA	Purge Data Yrs 06 Wells 06 Days 06							
Depth to Water (ft) 344	Bottom of Well (ft) 334	Well Diameter (in) 102	Survey Leader JES							
1 Depth of Screen <input checked="" type="checkbox"/> Open Bare Hole		Field Crew SCH								
100	100	100	<input checked="" type="checkbox"/> Unfiltered <input type="checkbox"/> Filtered <input type="checkbox"/> Both Filter Type and Size							
8.47	To 8.92	100	8.92-100 KIC-GA-660606							
(Bottom of Well)	Depth to Water	x Volume Factor	Net Volume							
388	3.44 mft	8.157 l/m	441 882 78							
Purge Pump: <input type="checkbox"/> Bladder <input checked="" type="checkbox"/> Cartridge <input type="checkbox"/> Peristaltic <input type="checkbox"/> Dedicated Other Well										
Sample Pump: <input type="checkbox"/> Bladder <input checked="" type="checkbox"/> Cartridge <input type="checkbox"/> Peristaltic <input type="checkbox"/> Dedicated Other Well										
Notes and WQ Observations	ETC	Pump Rate (l/min)	Depth to Water (ft)	Pump Depth (ft)	Temp (°C)	pH	DO mg/L	CONC ppm	4-4000 ppm	Turbidity NTU
Buglin Purge	100	10	344	344	-	-	-	-	-	
	9.02	8	344	344	17.2	6.2	0.2	4848	3.7	
	9.167	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.202	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.237	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.272	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.307	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.342	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.377	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.412	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.447	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.482	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.517	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.552	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.587	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.622	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.657	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.692	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.727	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.762	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.8	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.835	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.87	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.905	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.94	8	344	344	17.4	6.0	0.4	5608	3.6	
	9.975	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.01	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.045	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.08	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.115	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.15	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.185	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.22	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.255	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.29	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.325	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.36	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.4	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.435	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.47	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.505	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.54	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.575	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.61	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.645	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.68	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.715	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.75	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.785	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.82	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.855	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.89	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.925	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.96	8	344	344	17.4	6.0	0.4	5608	3.6	
	10.995	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.03	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.065	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.1	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.145	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.18	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.215	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.25	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.285	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.32	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.355	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.39	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.425	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.46	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.495	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.53	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.565	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.6	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.635	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.67	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.705	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.74	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.775	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.81	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.845	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.88	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.915	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.95	8	344	344	17.4	6.0	0.4	5608	3.6	
	11.985	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.02	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.055	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.09	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.125	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.16	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.195	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.23	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.265	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.3	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.335	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.37	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.405	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.44	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.475	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.51	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.545	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.58	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.615	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.65	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.685	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.72	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.755	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.79	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.825	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.86	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.895	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.93	8	344	344	17.4	6.0	0.4	5608	3.6	
	12.965	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.0	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.035	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.07	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.105	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.14	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.175	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.21	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.245	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.28	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.315	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.35	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.385	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.42	8	344	344	17.4	6.0	0.4	5608	3.6	
	13.455	8	344	344	17.4	6.0	0.4	5608	3.6	

Preliminary Groundwater Data Field Worksheet

Библиография

Reviewed By

Summary

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Additional Sample Data

Analyst:	2000	2000	2000	2000	2000	2000	2000	2000
Date Analyzed:	4-15	4-15	4-16	4-16	4-16	4-16	4-16	4-16
Test:	Month	Day	Total Alk.	Mineral Acidity	CO ₂ Acidity	Well Diameter	Vol. Factor	
	Year	Hour	mEq/L	mEq/L	mEq/L	in.	cu. in.	
Turbidity (see)	<input checked="" type="checkbox"/> Clear		(EPA 810.1)	(EPA 810.1)	(EPA 805.1)	(EPA 805.1)	(EPA 805.1)	
	<input type="checkbox"/> Turbid		Time	Time	Time	12.7	0.5 cu. in.	
	<input type="checkbox"/> Slightly Turbid		Initial	Final	Initial	51	18 cu. in.	
	<input checked="" type="checkbox"/> Highly Turbid		Total	Diff. Min.	Total	98	45 cu. in.	
Bottles Required:	Permeate	Mineral	Phenol	Others (list)				
Color:	<input type="checkbox"/> BOD	<input type="checkbox"/> TOC	<input type="checkbox"/> Metals	<input type="checkbox"/> Bio Mineral	<input type="checkbox"/> Fecal			
Odor:	<input type="checkbox"/> COD	<input type="checkbox"/> TDS	<input type="checkbox"/> Bio Metals	<input type="checkbox"/> Nutrient	<input type="checkbox"/> TSS/TDS			

Distribution: (1) Original - Beta Mont. (2) Pink - Gossy Luster

Preliminary Groundwater Data Field Worksheet

Project Site KINGSZ	Well Number 164 04068	Purge Date Year 86 Month 06 Day 26	Sheet 1 of 1							
Depth to Water (ft) Bottom of Well (ft) Wall Diameter (in.) Survey Leader 600 1105 240 1154 4198	Field Crew Smith									
<input checked="" type="checkbox"/> Depth to Bottom of Open Bore Hole										
16.98	26.03	4.842	<input checked="" type="checkbox"/> Unfiltered <input type="checkbox"/> Filtered <input type="checkbox"/> Both After Temperature & pH							
Bottom of Well	Depth to Water	No. Core Factor	Well Volume	Target Charge Volume	Action Charge Volume					
16.98	26.03	2.027	46.5	81	12 > 4198					
Purge Pump <input type="checkbox"/> Bladder	<input checked="" type="checkbox"/> Siphonage	<input type="checkbox"/> Peristaltic	<input checked="" type="checkbox"/> Dedicated	Other (list)						
Sample Pump <input type="checkbox"/> Bladder	<input checked="" type="checkbox"/> Centrifugal	<input type="checkbox"/> Peristaltic	<input checked="" type="checkbox"/> Dedicated	Other (list)						
Notes and WD Observations		Pump Rate L/min.	Depth to Water ft	Pump Depth ft	Temp °C	pH	DO mg/L	COND µS/cm	EC-DRP mg/L	Turbidity NTU
Begin Purge 164-6 →		16.6	26.67							
		16.7	26.67	16.6	6.5	6.5	342	342	342	
		16.8	26.67	16.4	6.9	6.2	344	344	344	
		16.9	26.67	16.3	7.1	6.1	345	345	345	
		17.0	26.67	16.2	7.3	6.0	346	346	346	
		17.1	26.67	16.1	7.5	5.9	347	347	347	
		17.2	26.67	16.0	7.7	5.8	348	348	348	
		17.3	26.67	15.9	7.9	5.7	349	349	349	
		17.4	26.67	15.8	8.1	5.6	350	350	350	
		17.5	26.67	15.7	8.3	5.5	351	351	351	
		17.6	26.67	15.6	8.5	5.4	352	352	352	
		17.7	26.67	15.5	8.7	5.3	353	353	353	
		17.8	26.67	15.4	8.9	5.2	354	354	354	
		17.9	26.67	15.3	9.1	5.1	355	355	355	
		18.0	26.67	15.2	9.3	5.0	356	356	356	
		18.1	26.67	15.1	9.5	4.9	357	357	357	
		18.2	26.67	15.0	9.7	4.8	358	358	358	
		18.3	26.67	14.9	9.9	4.7	359	359	359	
		18.4	26.67	14.8	10.1	4.6	360	360	360	
		18.5	26.67	14.7	10.3	4.5	361	361	361	
		18.6	26.67	14.6	10.5	4.4	362	362	362	
		18.7	26.67	14.5	10.7	4.3	363	363	363	
		18.8	26.67	14.4	10.9	4.2	364	364	364	
		18.9	26.67	14.3	11.1	4.1	365	365	365	
		19.0	26.67	14.2	11.3	4.0	366	366	366	
		19.1	26.67	14.1	11.5	3.9	367	367	367	
		19.2	26.67	14.0	11.7	3.8	368	368	368	
		19.3	26.67	13.9	11.9	3.7	369	369	369	
		19.4	26.67	13.8	12.1	3.6	370	370	370	
		19.5	26.67	13.7	12.3	3.5	371	371	371	
		19.6	26.67	13.6	12.5	3.4	372	372	372	
		19.7	26.67	13.5	12.7	3.3	373	373	373	
		19.8	26.67	13.4	12.9	3.2	374	374	374	
		19.9	26.67	13.3	13.1	3.1	375	375	375	
		20.0	26.67	13.2	13.3	3.0	376	376	376	
		20.1	26.67	13.1	13.5	2.9	377	377	377	
		20.2	26.67	13.0	13.7	2.8	378	378	378	
		20.3	26.67	12.9	13.9	2.7	379	379	379	
		20.4	26.67	12.8	14.1	2.6	380	380	380	
		20.5	26.67	12.7	14.3	2.5	381	381	381	
		20.6	26.67	12.6	14.5	2.4	382	382	382	
		20.7	26.67	12.5	14.7	2.3	383	383	383	
		20.8	26.67	12.4	14.9	2.2	384	384	384	
		20.9	26.67	12.3	15.1	2.1	385	385	385	
		21.0	26.67	12.2	15.3	2.0	386	386	386	
		21.1	26.67	12.1	15.5	1.9	387	387	387	
		21.2	26.67	12.0	15.7	1.8	388	388	388	
		21.3	26.67	11.9	15.9	1.7	389	389	389	
		21.4	26.67	11.8	16.1	1.6	390	390	390	
		21.5	26.67	11.7	16.3	1.5	391	391	391	
		21.6	26.67	11.6	16.5	1.4	392	392	392	
		21.7	26.67	11.5	16.7	1.3	393	393	393	
		21.8	26.67	11.4	16.9	1.2	394	394	394	
		21.9	26.67	11.3	17.1	1.1	395	395	395	
		22.0	26.67	11.2	17.3	1.0	396	396	396	
		22.1	26.67	11.1	17.5	0.9	397	397	397	
		22.2	26.67	11.0	17.7	0.8	398	398	398	
		22.3	26.67	10.9	17.9	0.7	399	399	399	
		22.4	26.67	10.8	18.1	0.6	400	400	400	
		22.5	26.67	10.7	18.3	0.5	401	401	401	
		22.6	26.67	10.6	18.5	0.4	402	402	402	
		22.7	26.67	10.5	18.7	0.3	403	403	403	
		22.8	26.67	10.4	18.9	0.2	404	404	404	
		22.9	26.67	10.3	19.1	0.1	405	405	405	
		23.0	26.67	10.2	19.3	-0.1	406	406	406	
		23.1	26.67	10.1	19.5	-0.2	407	407	407	
		23.2	26.67	10.0	19.7	-0.3	408	408	408	
		23.3	26.67	9.9	19.9	-0.4	409	409	409	
		23.4	26.67	9.8	20.1	-0.5	410	410	410	
		23.5	26.67	9.7	20.3	-0.6	411	411	411	
		23.6	26.67	9.6	20.5	-0.7	412	412	412	
		23.7	26.67	9.5	20.7	-0.8	413	413	413	
		23.8	26.67	9.4	20.9	-0.9	414	414	414	
		23.9	26.67	9.3	21.1	-0.8	415	415	415	
		24.0	26.67	9.2	21.3	-0.7	416	416	416	
		24.1	26.67	9.1	21.5	-0.6	417	417	417	
		24.2	26.67	9.0	21.7	-0.5	418	418	418	
		24.3	26.67	8.9	21.9	-0.4	419	419	419	
		24.4	26.67	8.8	22.1	-0.3	420	420	420	
		24.5	26.67	8.7	22.3	-0.2	421	421	421	
		24.6	26.67	8.6	22.5	-0.1	422	422	422	
		24.7	26.67	8.5	22.7	0.0	423	423	423	
		24.8	26.67	8.4	22.9	0.1	424	424	424	
		24.9	26.67	8.3	23.1	0.2	425	425	425	
		25.0	26.67	8.2	23.3	0.3	426	426	426	
		25.1	26.67	8.1	23.5	0.4	427	427	427	
		25.2	26.67	8.0	23.7	0.5	428	428	428	
		25.3	26.67	7.9	23.9	0.6	429	429	429	
		25.4	26.67	7.8	24.1	0.7	430	430	430	
		25.5	26.67	7.7	24.3	0.8	431	431	431	
		25.6	26.67	7.6	24.5	0.9	432	432	432	
		25.7	26.67	7.5	24.7	1.0	433	433	433	
		25.8	26.67	7.4	24.9	1.1	434	434	434	
		25.9	26.67	7.3	25.1	1.2	435	435	435	
		26.0	26.67	7.2	25.3	1.3	436	436	436	
		26.1	26.67	7.1	25.5	1.4	437	437	437	
		26.2	26.67	7.0	25.7	1.5	438	438	438	
		26.3	26.67	6.9	25.9	1.6	439	439	439	
		26.4	26.67	6.8	26.1	1.7	440	440	440	
		26.5	26.67	6.7	26.3	1.8	441	441	441	
		26.6	26.67	6.6	26.5	1.9	442	442	442	
		26.7	26.67	6.5	26.7	2.0	443	443	443	
		26.8	26.67	6.4	26.9	2.1	444	444	444	
		26.9	26.67	6.3	27.1	2.2	445	445	445	
		27.0	26.67	6.2	27.3	2.3	446	446	446	
		27.1	26.67	6.1	27.5	2.4	447	447	447	
		27.2	26.67	6.0	27.7	2.5	448	448	448	
		27.3	26.67	5.9	27.9	2.6	449	449	449	
		27.4	26.67	5.8	28.1	2.7	450	450	450	
		27.5	26.67	5.7	28.3	2.8	451	451	451	
		27.6	26.67	5.6	28.5	2.9	452	452	452	
		27.7	26.67	5.5	28.7	3.0	453	453	453	
		27.8	26.67	5.4	28.9	3.1	454	454	454	
		27.9	26.67	5.3	29.1	3.2	455	455	455	
		28.0	26.67	5.2	29.3	3.3	456	456	456	
		28.1	26.67	5.1	29.5	3.4	457	457	457	
		28.2	26.67	5.0	29.7	3.5	458	458	458	
		28.3	26.67	4.9	29.9	3.6	459	459	459	
		28.4	26.67	4.8	30.1	3.7	460	460	460	
		28.5	26.67	4.7	30.3	3.8	461	461	461	
		28.6	26.67	4.6	30.5	3.9	462	462	462	
		28.7	26.67	4.5	30.7	4.0	463	463		

APPENDIX B

SAMPLE CUSTODY RECORD

RCG 4

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

FORM 24748
CONTROL #

Generator Statement of RCRA Laboratory Sample Regulatory Status
As generator of this material, I have disclosed to TVA Environmental Chemistry all knowledge of the regulatory status of the sample(s) in regard to the definitions in 40 CFR part 261, subpart C, Characteristics of Hazardous Waste and sub part Q, List of Hazardous Waste which are outside the scope of the analyses requested.

FIELD COMMENTS -

ANALYSIS REQUEST

— (Generator)

100

LABORATORY COMMENTS

Jean Wiles DATETIME 6/9/06 10:39

JUN 10 1970

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

APPENDIX C
LABORATORY DATA SHEETS



**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, WT 9C-K
 Debbie Nunn, MR 2U-C
 Phone: Not Available
 Fax : Not Available
 E-Mail: GroundwaterWells; EDM

Location Code: KIF-4B

Field ID: KIF-4B-060606

Sample Description: KIF GROUNDWATER

Sample ID: AG40191 **LRF ID:** 06060160
Matrix: Water **Reg:** RCRA

Date Collected: 06/06/2006

Time Collected: 10:14 EST

Date Received: 06/09/2006

Time Received: 10:39

Project Manager: Ricardo I. Gilbert

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	0.9	mg/L	0.2	06/16/2006	12:58	LMJ	EPA 6010
Ammonia as N	7664-41-7	0.09	mg/L	0.01	06/15/2006	12:07	ADP	EPA 350.1
Antimony, Total	7440-36-0	< MDL	mg/L	0.003	06/27/2006	13:58	JBR	EPA 7041
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	06/22/2006	4:43	ABM	EPA 7060A
Barium, Total	7440-39-3	0.05	mg/L	0.01	06/16/2006	12:58	LMJ	EPA 6010
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	06/16/2006	12:58	LMJ	EPA 6010
Boron, Total	7440-42-8	< MDL	mg/L	0.2	06/16/2006	12:58	LMJ	EPA 6010
Cadmium, Total	7440-43-9	0.0003	mg/L	0.0001	06/27/2006	10:52	JBR	EPA 7131
Calcium, Total	7440-70-2	200	mg/L	0.3	06/16/2006	12:58	LMJ	EPA 6010
Chloride, Total	16887-00-6	5.0	mg/L	1.	06/22/2006	14:59	GMP	EPA 325.2
Chromium, Total	7440-47-3	0.005	mg/L	0.001	06/22/2006	22:14	ABM	EPA 7191
Cobalt, Total	7440-48-4	0.001	mg/L	0.001	06/22/2006	17:36	JBR	EPA 7201
Copper, Total	7440-50-8	0.10	mg/L	0.01	06/16/2006	12:58	LMJ	EPA 6010
Filterable Residue		860.	mg/L	10.	06/13/2006	15:07	AJH	EPA 160.1
Fluoride, Total	16984-48-8	0.16	mg/L	0.1	06/22/2006	15:00	GMP	EPA 340.2
Inorganic Carbon, Total		67	mg/L	1.	06/15/2006	8:29	ADP	ASTM477988
Iron, Total	7439-89-6	2.0	mg/L	0.03	06/16/2006	12:58	LMJ	EPA 6010
Lead , Total	7439-92-1	0.001	mg/L	0.001	06/26/2006	17:40	JBR	EPA 7421
Magnesium, Total	7439-95-4	18	mg/L	0.03	06/16/2006	12:58	LMJ	EPA 6010
Manganese, Total	7439-96-5	1.2	mg/L	0.005	06/16/2006	12:58	LMJ	EPA 6010
Mercury, Total	7439-97-6	<MDL	mg/L	0.0001	06/21/2006	10:58	CLS	EPA 7470
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	06/16/2006	12:58	LMJ	EPA 6010
Nickel, Total	7440-02-0	0.005	mg/L	0.001	06/22/2006	20:13	ABM	EPA 7521
Nitrate-Nitrite as N		0.21	mg/L	0.01	06/15/2006	19:26	ADP	EPA 353.2
Non-Filterable Residue		25.	mg/L	1.	06/12/2006	9:59	AJH	EPA 160.2
Potassium, Total	7440-09-7	8.8	mg/L	0.1	06/28/2006	10:39	JBR	EPA 7610
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	06/26/2006	11:40	JBR	EPA 7740
Silver, Total	7440-22-4	< MDL	mg/L	0.01	06/16/2006	12:58	LMJ	EPA 6010
Sodium, Total	7440-23-5	7.3	mg/L	0.1	06/28/2006	11:27	JBR	EPA 7770
Strontium, Total	7440-24-6	0.40	mg/L	0.05	06/16/2006	12:58	LMJ	EPA 6010
Sulfate, Total	14808-79-8	390	mg/L	1.	06/20/2006	14:19	GMP	EPA 375.4
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	06/27/2006	16:57	JBR	EPA 7841
Total Kjeldahl Nitrogen		0.30	mg/L	0.02	06/20/2006	16:00	GMP	EPA 351.2
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	06/16/2006	12:58	LMJ	EPA 6010
Zinc, Total	7440-66-6	0.05	mg/L	0.01	06/16/2006	12:58	LMJ	EPA 6010

Data Report Number: 060630-153147
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, WT 9C-K
Debbie Nunn, MR 2U-C
Phone: Not Available
Fax: Not Available
E-Mail: GroundwaterWells; EDM

Location Code: KIF-4B

Field ID: KIF-4B-060606

Sample Description: KIF GROUNDWATER

Sample ID: AG40191 **LRF ID:** 06060160
Matrix: Water **Reg:** RCRA

Date Collected: 06/06/2006
Time Collected: 10:14 EST
Date Received: 06/09/2006
Time Received: 10:39

Project Manager: Ricardo I. Gilbert

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
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Sample Comments: None

\$ICPW2 - SCRATCH SI, SN, TI



**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
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 Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, WT 9C-K
 Debbie Nunn, MR 2U-C
Phone: Not Available
Fax : Not Available
E-Mail: GroundwaterWells; EDM

Location Code: KIF-6A

Field ID: KIF-6A-060606

Sample Description: KIF GROUNDWATER

Sample ID: AG40192 **LRF ID:** 06060160

Matrix: Water **Reg:** RCRA

Date Collected: 06/06/2006

Time Collected: 13:26 EST

Date Received: 06/09/2006

Time Received: 10:39

Project Manager: Ricardo I. Gilbert

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	< MDL	mg/L	0.2	06/16/2006	13:02	LMJ	EPA 6010
Ammonia as N	7664-41-7	18	mg/L	0.01	06/15/2006	12:07	ADP	EPA 350.1
Antimony, Total	7440-36-0	0.004	mg/L	0.003	06/27/2006	14:04	JBR	EPA 7041
Arsenic, Total	7440-38-2	0.003	mg/L	0.001	06/22/2006	4:48	ABM	EPA 7060A
Barium, Total	7440-39-3	0.09	mg/L	0.01	06/16/2006	13:02	LMJ	EPA 6010
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	06/16/2006	13:02	LMJ	EPA 6010
Boron, Total	7440-42-8	0.7	mg/L	0.2	06/16/2006	13:02	LMJ	EPA 6010
Cadmium, Total	7440-43-9	0.0001	mg/L	0.0001	06/27/2006	10:57	JBR	EPA 7131
Calcium, Total	7440-70-2	240	mg/L	0.3	06/16/2006	13:02	LMJ	EPA 6010
Chloride, Total	16887-00-6	7.3	mg/L	1.	06/22/2006	14:59	GMP	EPA 325.2
Chromium, Total	7440-47-3	0.001	mg/L	0.001	06/22/2006	22:21	ABM	EPA 7191
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	06/22/2006	17:42	JBR	EPA 7201
Copper, Total	7440-50-8	< MDL	mg/L	0.01	06/16/2006	13:02	LMJ	EPA 6010
Filterable Residue		5500.	mg/L	10.	06/13/2006	15:08	AJH	EPA 160.1
Fluoride, Total	16984-48-8	< MDL	mg/L	0.1	06/22/2006	15:00	GMP	EPA 340.2
Inorganic Carbon, Total		110	mg/L	1.	06/15/2006	8:36	ADP	ASTM477988
Iron, Total	7439-89-6	1100	mg/L	0.03	06/16/2006	13:02	LMJ	EPA 6010
Lead , Total	7439-92-1	< MDL	mg/L	0.001	06/26/2006	17:45	JBR	EPA 7421
Magnesium, Total	7439-95-4	85	mg/L	0.03	06/16/2006	13:02	LMJ	EPA 6010
Manganese, Total	7439-96-5	200	mg/L	0.005	06/16/2006	13:02	LMJ	EPA 6010
Mercury, Total	7439-97-6	<MDL	mg/L	0.0001	06/21/2006	11:10	CLS	EPA 7470
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	06/16/2006	13:02	LMJ	EPA 6010
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	06/22/2006	20:18	ABM	EPA 7521
Nitrate-Nitrite as N		< MDL	mg/L	0.01	06/15/2006	19:26	ADP	EPA 353.2
Non-Filterable Residue		120.	mg/L	1.	06/12/2006	9:59	AJH	EPA 160.2
Potassium, Total	7440-09-7	8.4	mg/L	0.1	06/28/2006	10:44	JBR	EPA 7610
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	06/26/2006	11:45	JBR	EPA 7740
Silver, Total	7440-22-4	< MDL	mg/L	0.01	06/16/2006	13:02	LMJ	EPA 6010
Sodium, Total	7440-23-5	10	mg/L	0.1	06/28/2006	11:32	JBR	EPA 7770
Strontium, Total	7440-24-6	0.71	mg/L	0.05	06/16/2006	13:02	LMJ	EPA 6010
Sulfate, Total	14808-79-8	3000	mg/L	1.	06/20/2006	14:32	GMP	EPA 375.4
Thallium, Total	7440-28-0	0.002	mg/L	0.002	06/27/2006	17:03	JBR	EPA 7841
Total Kjeldahl Nitrogen		17	mg/L	0.02	06/20/2006	16:00	GMP	EPA 351.2
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	06/16/2006	13:02	LMJ	EPA 6010
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	06/16/2006	13:02	LMJ	EPA 6010

06/30/2006

Page 3 of 14

¹ Chemical Abstracts Service Registry Number

² Method Detection Limit

Data Report Number: 060630-153147
Report of Results: Environmental



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Shipping Address:
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North Side Chickamauga Reservation
Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, WT 9C-K
Debbie Nunn, MR 2U-C
Phone: Not Available
Fax : Not Available
E-Mail: GroundwaterWells; EDM

Location Code: KIF-6A

Field ID: KIF-6A-060606

Sample Description: KIF GROUNDWATER

Sample ID: AG40192 **LRF ID:** 06060160

Matrix: Water **Reg:** RCRA

Date Collected: 06/06/2006

Time Collected: 13:26 EST

Date Received: 06/09/2006

Time Received: 10:39

Project Manager: Ricardo I. Gilbert

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
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Sample Comments: None



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 Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, WT 9C-K
 Debbie Nunn, MR 2U-C
 Phone: Not Available
 Fax : Not Available
 E-Mail: GroundwaterWells; EDM

Location Code: KIF-13B

Field ID: KIF-13B-060606

Sample Description: KIF GROUNDWATER

Sample ID: AG40193 **LRF ID:** 06060160

Matrix: Water **Reg:** RCRA

Date Collected: 06/06/2006

Time Collected: 12:50 EST

Date Received: 06/09/2006

Time Received: 10:39

Project Manager: Ricardo I. Gilbert

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	< MDL	mg/L	0.2	06/16/2006	13:09	LMJ	EPA 6010
Ammonia as N	7664-41-7	0.16	mg/L	0.01	06/15/2006	12:07	ADP	EPA 350.1
Antimony, Total	7440-36-0	< MDL	mg/L	0.003	06/27/2006	14:10	JBR	EPA 7041
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	06/22/2006	4:54	ABM	EPA 7060A
Barium, Total	7440-39-3	0.40	mg/L	0.01	06/16/2006	13:09	LMJ	EPA 6010
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	06/16/2006	13:09	LMJ	EPA 6010
Boron, Total	7440-42-8	< MDL	mg/L	0.2	06/16/2006	13:09	LMJ	EPA 6010
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	06/27/2006	11:03	JBR	EPA 7131
Calcium, Total	7440-70-2	16	mg/L	0.3	06/16/2006	13:09	LMJ	EPA 6010
Chloride, Total	16887-00-6	2.8	mg/L	1.	06/22/2006	14:59	GMP	EPA 325.2
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	06/22/2006	22:27	ABM	EPA 7191
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	06/22/2006	17:47	JBR	EPA 7201
Copper, Total	7440-50-8	< MDL	mg/L	0.01	06/16/2006	13:09	LMJ	EPA 6010
Filterable Residue		250.	mg/L	10.	06/13/2006	15:08	AJH	EPA 160.1
Fluoride, Total	16984-48-8	0.18	mg/L	0.1	06/22/2006	15:00	GMP	EPA 340.2
Inorganic Carbon, Total		54	mg/L	1.	06/15/2006	8:42	ADP	ASTM477988
Iron, Total	7439-89-6	0.12	mg/L	0.03	06/16/2006	13:09	LMJ	EPA 6010
Lead , Total	7439-92-1	< MDL	mg/L	0.001	06/26/2006	17:50	JBR	EPA 7421
Magnesium, Total	7439-95-4	2.2	mg/L	0.03	06/16/2006	13:09	LMJ	EPA 6010
Manganese, Total	7439-96-5	0.085	mg/L	0.005	06/16/2006	13:09	LMJ	EPA 6010
Mercury, Total	7439-97-6	<MDL	mg/L	0.0001	06/21/2006	11:12	CLS	EPA 7470
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	06/16/2006	13:09	LMJ	EPA 6010
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	06/22/2006	20:24	ABM	EPA 7521
Nitrate-Nitrite as N		< MDL	mg/L	0.01	06/15/2006	19:26	ADP	EPA 353.2
Non-Filterable Residue		< MDL	mg/L	1.	06/12/2006	9:59	AJH	EPA 160.2
Potassium, Total	7440-09-7	3.5	mg/L	0.1	06/28/2006	10:47	JBR	EPA 7610
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	06/26/2006	11:51	JBR	EPA 7740
Silver, Total	7440-22-4	< MDL	mg/L	0.01	06/16/2006	13:09	LMJ	EPA 6010
Sodium, Total	7440-23-5	81	mg/L	0.1	06/28/2006	11:40	JBR	EPA 7770
Strontium, Total	7440-24-6	0.31	mg/L	0.05	06/16/2006	13:09	LMJ	EPA 6010
Sulfate, Total	14808-79-8	1.1	mg/L	1.	06/20/2006	14:45	GMP	EPA 375.4
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	06/27/2006	17:08	JBR	EPA 7841
Total Kjeldahl Nitrogen		0.18	mg/L	0.02	06/20/2006	16:00	GMP	EPA 351.2
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	06/16/2006	13:09	LMJ	EPA 6010
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	06/16/2006	13:09	LMJ	EPA 6010

Data Report Number: 060630-153147
Report of Results: Environmental



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Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, WT 9C-K
Debbie Nunn, MR 2U-C
Phone: Not Available
Fax: Not Available
E-Mail: GroundwaterWells; EDM

Location Code: KIF-13B

Field ID: KIF-13B-060606

Sample Description: KIF GROUNDWATER

Sample ID: AG40193 **LRF ID:** 06060160

Matrix: Water **Reg:** RCRA

Date Collected: 06/06/2006

Time Collected: 12:50 EST

Date Received: 06/09/2006

Time Received: 10:39

Project Manager: Ricardo I. Gilbert

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
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Sample Comments: Chloride data confirmed.
K data confirmed by historical data.

Data Report Number: 060630-153147
 Report of Results: Environmental



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 Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, WT 9C-K
 Debbie Nunn, MR 2U-C
 Phone: Not Available
 Fax : Not Available
 E-Mail: GroundwaterWells; EDM

Location Code: KIF-13B

Field ID: KIF-13B-060606-DUP

Sample Description: KIF GROUNDWATER

Sample ID: AG40194 **LRF ID:** 06060160

Matrix: Water **Reg:** RCRA

Date Collected: 06/06/2006

Time Collected: 12:50 EST

Date Received: 06/09/2006

Time Received: 10:39

Project Manager: Ricardo I. Gilbert

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	< MDL	mg/L	0.2	06/16/2006	13:14	LMJ	EPA 6010
Ammonia as N	7664-41-7	0.13	mg/L	0.01	06/15/2006	12:07	ADP	EPA 350.1
Antimony, Total	7440-36-0	< MDL	mg/L	0.003	06/27/2006	14:15	JBR	EPA 7041
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	06/22/2006	4:59	ABM	EPA 7060A
Barium, Total	7440-39-3	0.39	mg/L	0.01	06/16/2006	13:14	LMJ	EPA 6010
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	06/16/2006	13:14	LMJ	EPA 6010
Boron, Total	7440-42-8	< MDL	mg/L	0.2	06/16/2006	13:14	LMJ	EPA 6010
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	06/27/2006	11:08	JBR	EPA 7131
Calcium, Total	7440-70-2	16	mg/L	0.3	06/16/2006	13:14	LMJ	EPA 6010
Chloride, Total	16887-00-6	2.8	mg/L	1.	06/22/2006	14:59	GMP	EPA 325.2
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	06/22/2006	22:33	ABM	EPA 7191
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	06/22/2006	17:52	JBR	EPA 7201
Copper, Total	7440-50-8	< MDL	mg/L	0.01	06/16/2006	13:14	LMJ	EPA 6010
Filterable Residue		240	mg/L	10.	06/13/2006	15:09	AJH	EPA 160.1
Fluoride, Total	16984-48-8	0.19	mg/L	0.1	06/22/2006	15:00	GMP	EPA 340.2
Inorganic Carbon, Total		50	mg/L	1.	06/15/2006	8:48	ADP	ASTM477988
Iron, Total	7439-89-6	0.10	mg/L	0.03	06/16/2006	13:14	LMJ	EPA 6010
Lead , Total	7439-92-1	< MDL	mg/L	0.001	06/26/2006	17:56	JBR	EPA 7421
Magnesium, Total	7439-95-4	2.1	mg/L	0.03	06/16/2006	13:14	LMJ	EPA 6010
Manganese, Total	7439-96-5	0.08	mg/L	0.005	06/16/2006	13:14	LMJ	EPA 6010
Mercury, Total	7439-97-6	<MDL	mg/L	0.0001	06/21/2006	11:15	CLS	EPA 7470
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	06/16/2006	13:14	LMJ	EPA 6010
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	06/22/2006	20:29	ABM	EPA 7521
Nitrate-Nitrite as N		< MDL	mg/L	0.01	06/15/2006	19:26	ADP	EPA 353.2
Non-Filterable Residue		< MDL	mg/L	1.	06/12/2006	9:59	AJH	EPA 160.2
Potassium, Total	7440-09-7	3.4	mg/L	0.1	06/28/2006	10:49	JBR	EPA 7610
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	06/26/2006	11:57	JBR	EPA 7740
Silver, Total	7440-22-4	< MDL	mg/L	0.01	06/16/2006	13:14	LMJ	EPA 6010
Sodium, Total	7440-23-5	79	mg/L	0.1	06/28/2006	11:42	JBR	EPA 7770
Strontium, Total	7440-24-6	0.31	mg/L	0.05	06/16/2006	13:14	LMJ	EPA 6010
Sulfate, Total	14808-79-8	1.0	mg/L	1.	06/20/2006	14:58	GMP	EPA 375.4
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	06/27/2006	17:14	JBR	EPA 7841
Total Kjeldahl Nitrogen		0.16	mg/L	0.02	06/20/2006	16:00	GMP	EPA 351.2
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	06/16/2006	13:14	LMJ	EPA 6010
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	06/16/2006	13:14	LMJ	EPA 6010

06/30/2006

Page 7 of 14

¹ Chemical Abstracts Service Registry Number

² Method Detection Limit

Data Report Number: 060630-153147
Report of Results: Environmental



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Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, WT 9C-K
Debbie Nunn, MR 2U-C

Phone: Not Available

Fax: Not Available

E-Mail: GroundwaterWells; EDM

Location Code: KIF-13B

Field ID: KIF-13B-060606-DUP

Sample Description: KIF GROUNDWATER

Sample ID: AG40194

LRF ID: 06060160

Matrix: Water

Reg: RCRA

Date Collected: 06/06/2006

Time Collected: 12:50 EST

Date Received: 06/09/2006

Time Received: 10:39

Project Manager: Ricardo I. Gilbert

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
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Sample Comments: None

Chloride data confirmed.

K data confirmed by historical data.



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 Chattanooga, Tennessee 37415

Customer Address: Mark Boggs, WT 9C-K
 Debbie Nunn, MR 2U-C
 Phone: Not Available
 Fax : Not Available
 E-Mail: GroundwaterWells; EDM

Sample ID: AG40195 **LRF ID:** 06060160

Matrix: Water **Reg:** RCRA

Date Collected: 06/06/2006

Time Collected: 12:20 EST

Date Received: 06/09/2006

Time Received: 10:39

Location Code: KIF-16A

Field ID: KIF-16A-060606

Sample Description: KIF GROUNDWATER

Project Manager: Ricardo I. Gilbert

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	0.4	mg/L	0.2	06/16/2006	13:18	LMJ	EPA 6010
Ammonia as N	7664-41-7	0.45	mg/L	0.01	06/15/2006	12:07	ADP	EPA 350.1
Antimony, Total	7440-36-0	< MDL	mg/L	0.003	06/27/2006	14:21	JBR	EPA 7041
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	06/22/2006	5:05	ABM	EPA 7060A
Barium, Total	7440-39-3	0.05	mg/L	0.01	06/16/2006	13:18	LMJ	EPA 6010
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	06/16/2006	13:18	LMJ	EPA 6010
Boron, Total	7440-42-8	< MDL	mg/L	0.2	06/16/2006	13:18	LMJ	EPA 6010
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	06/27/2006	11:26	JBR	EPA 7131
Calcium, Total	7440-70-2	41	mg/L	0.3	06/16/2006	13:18	LMJ	EPA 6010
Chloride, Total	16887-00-6	< MDL	mg/L	1.	06/22/2006	14:59	GMP	EPA 325.2
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	06/22/2006	22:39	ABM	EPA 7191
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	06/22/2006	18:17	JBR	EPA 7201
Copper, Total	7440-50-8	< MDL	mg/L	0.01	06/16/2006	13:18	LMJ	EPA 6010
Filterable Residue		230.	mg/L	10.	06/13/2006	15:09	AJH	EPA 160.1
Fluoride, Total	16984-48-8	0.47	mg/L	0.1	06/22/2006	15:00	GMP	EPA 340.2
Inorganic Carbon, Total		38	mg/L	1.	06/15/2006	8:55	ADP	ASTM477988
Iron, Total	7439-89-6	1.1	mg/L	0.03	06/16/2006	13:18	LMJ	EPA 6010
Lead , Total	7439-92-1	< MDL	mg/L	0.001	06/26/2006	19:09	JBR	EPA 7421
Magnesium, Total	7439-95-4	8.7	mg/L	0.03	06/16/2006	13:18	LMJ	EPA 6010
Manganese, Total	7439-96-5	1.2	mg/L	0.005	06/16/2006	13:18	LMJ	EPA 6010
Mercury, Total	7439-97-6	<MDL	mg/L	0.0001	06/21/2006	11:22	CLS	EPA 7470
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	06/16/2006	13:18	LMJ	EPA 6010
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	06/22/2006	20:35	ABM	EPA 7521
Nitrate-Nitrite as N		< MDL	mg/L	0.01	06/15/2006	19:26	ADP	EPA 353.2
Non-Filterable Residue		10.	mg/L	1.	06/12/2006	9:59	AJH	EPA 160.2
Potassium, Total	7440-09-7	2.9	mg/L	0.1	06/28/2006	10:50	JBR	EPA 7610
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	06/26/2006	12:16	JBR	EPA 7740
Silver, Total	7440-22-4	< MDL	mg/L	0.01	06/16/2006	13:18	LMJ	EPA 6010
Sodium, Total	7440-23-5	16	mg/L	0.1	06/28/2006	11:43	JBR	EPA 7770
Strontium, Total	7440-24-6	0.29	mg/L	0.05	06/16/2006	13:18	LMJ	EPA 6010
Sulfate, Total	14808-79-8	34	mg/L	1.	06/20/2006	15:11	GMP	EPA 375.4
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	06/27/2006	17:19	JBR	EPA 7841
Total Kjeldahl Nitrogen		0.52	mg/L	0.02	06/20/2006	16:00	GMP	EPA 351.2
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	06/16/2006	13:18	LMJ	EPA 6010
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	06/16/2006	13:18	LMJ	EPA 6010

Data Report Number: 060630-153147
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Debbie Nunn, MR 2U-C
Phone: Not Available
Fax : Not Available
E-Mail: GroundwaterWells; EDM

Location Code: KIF-16A

Field ID: KIF-16A-060606

Sample Description: KIF GROUNDWATER

Sample ID: AG40195 **LRF ID:** 06060160

Matrix: Water **Reg:** RCRA

Date Collected: 06/06/2006

Time Collected: 12:20 EST

Date Received: 06/09/2006

Time Received: 10:39

Project Manager: Ricardo I. Gilbert

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
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Sample Comments: None

Data Report Number: 060630-153147
Report of Results: Environmental



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Customer Address: Mark Boggs, WT 9C-K
Debbie Nunn, MR 2U-C
Phone: Not Available
Fax : Not Available
E-Mail: GroundwaterWells; EDM

Location Code: KIF-22

Field ID: KIF-22-060606

Sample Description: KIF GROUNDWATER

Sample ID: AG40196 LRF ID: 06060160

Matrix: Water Reg: RCRA

Date Collected: 06/06/2006

Time Collected: 10:52 EST

Date Received: 06/09/2006

Time Received: 10:39

Project Manager: Ricardo I. Gilbert

Analyst	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Ammonia as N	7664-41-7	0.83	mg/L	0.01	06/15/2006	12:07	ADP	EPA 350.1
Nitrate-Nitrite as N		< MDL	mg/L	0.01	06/15/2006	19:26	ADP	EPA 353.2
Total Kjeldahl Nitrogen		0.88	mg/L	0.02	06/20/2006	16:00	GMP	EPA 351.2

Sample Comments: None

Data Report Number: 060630-153147
Report of Results: Environmental



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Customer Address: Mark Boggs, WT 9C-K
Debbie Nunn, MR 2U-C
Phone: Not Available
Fax : Not Available
E-Mail: GroundwaterWells; EDM

Sample ID: AG40197 LRF ID: 06060160
Matrix: Water Reg: RCRA
Date Collected: 06/06/2006
Time Collected: 13:30 EST
Date Received: 06/09/2006
Time Received: 10:39

Location Code: KIF

Field ID: EQUIPMENT BLANK

Sample Description: SUPER Q THRU EQUIPMENT

Project Manager: Ricardo I. Gilbert

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
Aluminum, Total	7429-90-5	< MDL	mg/L	0.2	06/16/2006	13:22	LMJ	EPA 6010
Ammonia as N	7664-41-7	< MDL	mg/L	0.01	06/15/2006	12:07	ADP	EPA 350.1
Antimony, Total	7440-36-0	< MDL	mg/L	0.003	06/27/2006	14:27	JBR	EPA 7041
Arsenic, Total	7440-38-2	< MDL	mg/L	0.001	06/22/2006	5:10	ABM	EPA 7060A
Barium, Total	7440-39-3	< MDL	mg/L	0.01	06/16/2006	13:22	LMJ	EPA 6010
Beryllium, Total	7440-41-7	< MDL	mg/L	0.001	06/16/2006	13:22	LMJ	EPA 6010
Boron, Total	7440-42-8	< MDL	mg/L	0.2	06/16/2006	13:22	LMJ	EPA 6010
Cadmium, Total	7440-43-9	< MDL	mg/L	0.0001	06/27/2006	11:31	JBR	EPA 7131
Calcium, Total	7440-70-2	< MDL	mg/L	0.3	06/16/2006	13:22	LMJ	EPA 6010
Chloride, Total	16887-00-6	< MDL	mg/L	1.	06/22/2006	14:59	GMP	EPA 325.2
Chromium, Total	7440-47-3	< MDL	mg/L	0.001	06/22/2006	22:45	ABM	EPA 7191
Cobalt, Total	7440-48-4	< MDL	mg/L	0.001	06/22/2006	18:22	JBR	EPA 7201
Copper, Total	7440-50-8	< MDL	mg/L	0.01	06/16/2006	13:22	LMJ	EPA 6010
Filterable Residue		< MDL	mg/L	10.	06/13/2006	15:10	AJH	EPA 160.1
Fluoride, Total	16984-48-8	< MDL	mg/L	0.1	06/22/2006	15:00	GMP	EPA 340.2
Inorganic Carbon, Total		< MDL	mg/L	1.	06/15/2006	9:08	ADP	ASTM477988
Iron, Total	7439-89-6	< MDL	mg/L	0.03	06/16/2006	13:22	LMJ	EPA 6010
Lead , Total	7439-92-1	< MDL	mg/L	0.001	06/26/2006	19:14	JBR	EPA 7421
Magnesium, Total	7439-95-4	< MDL	mg/L	0.03	06/16/2006	13:22	LMJ	EPA 6010
Manganese, Total	7439-96-5	< MDL	mg/L	0.005	06/16/2006	13:22	LMJ	EPA 6010
Mercury, Total	7439-97-6	<MDL	mg/L	0.0001	06/21/2006	11:24	CLS	EPA 7470
Molybdenum, Total	7439-98-7	< MDL	mg/L	0.02	06/16/2006	13:22	LMJ	EPA 6010
Nickel, Total	7440-02-0	< MDL	mg/L	0.001	06/22/2006	20:40	ABM	EPA 7521
Nitrate-Nitrite as N		< MDL	mg/L	0.01	06/15/2006	18:10	ADP	EPA 353.2
Non-Filterable Residue		< MDL	mg/L	1.	06/12/2006	9:59	AJH	EPA 160.2
Potassium, Total	7440-09-7	0.1	mg/L	0.1	06/28/2006	10:52	JBR	EPA 7610
Selenium, Total	7782-49-2	< MDL	mg/L	0.001	06/26/2006	12:22	JBR	EPA 7740
Silver, Total	7440-22-4	< MDL	mg/L	0.01	06/16/2006	13:22	LMJ	EPA 6010
Sodium, Total	7440-23-5	< MDL	mg/L	0.1	06/28/2006	11:44	JBR	EPA 7770
Strontium, Total	7440-24-6	< MDL	mg/L	0.05	06/16/2006	13:22	LMJ	EPA 6010
Sulfate, Total	14808-79-8	< MDL	mg/L	1.	06/20/2006	15:24	GMP	EPA 375.4
Thallium, Total	7440-28-0	< MDL	mg/L	0.002	06/27/2006	17:25	JBR	EPA 7841
Total Kjeldahl Nitrogen		< MDL	mg/L	0.02	06/20/2006	16:00	GMP	EPA 351.2
Vanadium, Total	7440-62-2	< MDL	mg/L	0.01	06/16/2006	13:22	LMJ	EPA 6010
Zinc, Total	7440-66-6	< MDL	mg/L	0.01	06/16/2006	13:22	LMJ	EPA 6010

06/30/2006

Page 12 of 14

¹ Chemical Abstracts Service Registry Number

² Method Detection Limit

TVA-00026645

Data Report Number: 060630-153147
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, WT 9C-K
Debbie Nunn, MR 2U-C

Phone: Not Available

Fax: Not Available

E-Mail: GroundwaterWells; EDM

Location Code: KIF

Field ID: EQUIPMENT BLANK

Sample Description: SUPER Q THRU EQUIPMENT

Sample ID: AG40197

LRF ID: 06060160

Matrix: Water

Reg: RCRA

Date Collected: 06/06/2006

Time Collected: 13:30 EST

Date Received: 06/09/2006

Time Received: 10:39

Project Manager: Ricardo I. Gilbert

Analyte	CAS Number ¹	Result	Units	MDL ²	Analysis Date	Analysis Time	Analyst	Method Reference
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Sample Comments: None

Data Report Number: 060630-153147
Report of Results: Environmental

Central Laboratories Services data report number 060630-153147 was electronically approved using Labworks Enterprise Version 5.7, Build 255 on 06/30/2006 at 2:29:00 PM by Ricardo I. Gilbert

Vanessa L. Ramey, Lab Director
Lisa D. Ortiz, Department Manager
James W. Dillard, Product Manager
Ricardo I. Gilbert, Senior Analytical Chemist

This report contains sample results for the following samples, Login Reference File number: 06060160

<u>Sample ID</u>	<u>Field ID</u>
AG40191	KIF-4B-060606
AG40192	KIF-6A-060606
AG40193	KIF-13B-060606
AG40194	KIF-13B-060606-DUP
AG40195	KIF-16A-060606
AG40196	KIF-22-060606
AG40197	EQUIPMENT BLANK