



**STATE OF TENNESSEE  
DEPARTMENT OF HEALTH  
ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL  
Lab Services - Jackson Regional Lab  
Jackson, TN 38301  
731-426-0686

TDH: Lab Services KRL  
Lab Services - Knoxville Regional Lab  
Knoxville, TN 37920  
865-549-5201

TDH: Lab Services NCL  
Lab Services - Nashville Central Lab  
Nashville, TN 37243  
615-262-6300

**Sent To:** Greg Denton  
TDEC-WPC  
6th Floor, L & C Tower Annex  
401 Church Street  
Nashville, TN 37243-1534


Michael Atchley  
TDEC-WPC  
Knoxville FO  
3711 Middlebrook Pike  
Knoxville, TN 37921

**Lab ID:** K00002255  
Knoxville Regional Laboratory

**Sampling Agency:** TDEC: Division of Water Pollution Control

**Billing Code:** 327.34-20

This is to certify that the following results were determined using good laboratory practices and in accordance with federal or state approved methodologies.

  
Analytical Supervisor

**Lab-Sample Number:** K00002255001  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 12.1  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 1  
**Station No.:** EMORY012.1RO  
**Date/Time Collected:** 03/31/2009 10:30  
**Sampler's Name:** Justin Fisher  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:** 04/10/2009  
**Date/Time Received:** 03/31/2009 14:50  
**Received By:** S Staller

**Field Determinations**  
**pH:** 7.69 pH Units  
**Chlorine, residual:**  
**Conductivity:** 44 uMHO  
**Temperature:** 11.38  
**Dissolved Oxygen:** 12.08 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	11	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	12	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/1/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	4/3/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** K00002255002  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 2.1  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 2  
**Station No.:** EMORY002.1RO  
**Date/Time Collected:** 03/31/2009 11:23  
**Sampler's Name:** Justin Fisher  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:** 04/10/2009  
**Date/Time Received:** 03/31/2009 14:50  
**Received By:** S Staller

**Field Determinations**  
**pH:** 7.22 pH Units  
**Chlorine, residual:**  
**Conductivity:** 55 uMHO  
**Temperature:** 11.06  
**Dissolved Oxygen:** 11.23 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	19	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	18	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Setttable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/1/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	110	mg/L	10	10	A Peebles	4/3/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** K00002255003  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 2.1  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 2  
**Station No.:** EMORY002.1RO-FD  
**Date/Time Collected:** 03/31/2009 11:23  
**Sampler's Name:** Justin Fisher  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:** 04/10/2009  
**Date/Time Received:** 03/31/2009 14:50  
**Received By:** S Staller

**Field Determinations**  
**pH:** 7.22 pH Units  
**Chlorine, residual:**  
**Conductivity:** 55 uMHO  
**Temperature:** 11.06  
**Dissolved Oxygen:** 11.23 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	20	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	18	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/1/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	99	mg/L	10	10	A Peoples	4/3/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** K00002255004  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 2.1  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 2  
**Station No.:** EMORY002.1RO-FB  
**Date/Time Collected:** 03/31/2009 11:23  
**Sampler's Name:** Justin Fisher  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:** 04/10/2009  
**Date/Time Received:** 03/31/2009 14:50  
**Received By:** S Staller

**Field Determinations**  
**pH:** 7.22 pH Units  
**Chlorine, residual:**  
**Conductivity:** 55 uMHO  
**Temperature:** 11.06  
**Dissolved Oxygen:** 11.23 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	U	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	U	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	4/3/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** K00002255005  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 1.7  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 3  
**Station No.:** EMORY001.7RO  
**Date/Time Collected:** 03/31/2009 11:40  
**Sampler's Name:** Justin Fisher  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:** 04/10/2009  
**Date/Time Received:** 03/31/2009 14:50  
**Received By:** S Staller

**Field Determinations**  
**pH:** 7.01 pH Units  
**Chlorine, residual:**  
**Conductivity:** 41 uMHO  
**Temperature:** 10.75  
**Dissolved Oxygen:** 11.63 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	12	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	13	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/1/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peoples	4/3/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** K00002255006  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 0.1  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 4  
**Station No.:** EMORY000.1RO  
**Date/Time Collected:** 03/31/2009 11:53  
**Sampler's Name:** Justin Fisher  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:** 04/10/2009  
**Date/Time Received:** 03/31/2009 14:50  
**Received By:** S Staller

**Field Determinations**  
**pH:** 6.99 pH Units  
**Chlorine, residual:**  
**Conductivity:** 42 uMHO  
**Temperature:** 11.42  
**Dissolved Oxygen:** 11.43 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	12	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	11	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	0.3	ml/L	0.10	0.10	P Leathers	4/1/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	80	mg/L	10	10	A Peebles	4/3/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** K00002255007  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Clinch River mile 2.3 near Hwy 70 bridge  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 5  
**Station No.:** CLINC002.3RO  
**Date/Time Collected:** 03/31/2009 12:08  
**Sampler's Name:** Justin Fisher  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:** 04/10/2009  
**Date/Time Received:** 03/31/2009 14:50  
**Received By:** S Staller

**Field Determinations**  
**pH:** 7.26 pH Units  
**Chlorine, residual:**  
**Conductivity:** 82 uMHO  
**Temperature:** 12.34  
**Dissolved Oxygen:** 11.33 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	35	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	28	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/1/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	4/3/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

<b>Lab-Sample Number:</b>	K00002255008	<b>Field Determinations</b>	
<b>Project Name:</b>	TVA-Ash Spill	<b>pH:</b>	7.79      pH Units
<b>Sample Description:</b>	Clinch River mile 4.5 near Sugar Grove Valley R	<b>Chlorine, residual:</b>	
<b>Sampler Project Name:</b>	TVA Ash Spill	<b>Conductivity:</b>	209      uMHO
<b>Project Site No.:</b>	6	<b>Temperature:</b>	12.41
<b>Station No.:</b>	CLINC004.5RO	<b>Dissolved Oxygen:</b>	11.58      mg/L
<b>Date/Time Collected:</b>	03/31/2009 12:21	<b>Other:</b>	
<b>Sampler's Name:</b>	Justin Fisher	<b>Flow:</b>	CFS
<b>County:</b>	ROANE - 73		
<b>Sample Matrix:</b>	Water		
<b>EFO:</b>	Knoxville		
<b>Sampling Agency:</b>	TDEC-WPC		
<b>Billing Code:</b>	327.34-20		
<b>Send Report To:</b>	TDEC-WPC		
<b>Agency Invoiced:</b>	TDEC-WPC		
<b>Priority Date:</b>	04/10/2009		
<b>Date/Time Received:</b>	03/31/2009 14:50		
<b>Received By:</b>	S Staller		

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	110	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	80	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/1/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	4/3/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**



**STATE OF TENNESSEE  
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ENVIRONMENTAL LABORATORIES**

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Knoxville, TN 37920  
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6th Floor, L & C Tower Annex  
401 Church Street  
Nashville, TN 37243-1534

Michael Atchley  
TDEC-WPC  
Knoxville FO  
3711 Middlebrook Pike  
Knoxville, TN 37921

**Lab ID:** K00002255  
Knoxville Regional Laboratory

**Sampling Agency:** TDEC: Division of Water Pollution Control

**Billing Code:** 327.34-20

## **Preliminary Report**

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b> K00002255001 <b>Project Name:</b> TVA-Ash Spill <b>Sample Description:</b> Emory River mile 12.1 <b>Sampler Project Name:</b> TVA Ash Spill <b>Project Site No.:</b> 1 <b>Station No.:</b> EMORY012.1RO <b>Date/Time Collected:</b> 03/31/2009 10:30 <b>Sampler's Name:</b> Justin Fisher <b>County:</b> ROANE - 73 <b>Sample Matrix:</b> Water <b>EFO:</b> Knoxville <b>Sampling Agency:</b> TDEC-WPC <b>Billing Code:</b> 327.34-20 <b>Send Report To:</b> TDEC-WPC <b>Agency Invoiced:</b> TDEC-WPC <b>Priority Date:</b> 04/10/2009 <b>Date/Time Received:</b> 03/31/2009 14:50 <b>Received By:</b> S Staller	<b>Field Determinations</b> <b>pH:</b> 7.69      pH Units <b>Chlorine, residual:</b> <b>Conductivity:</b> 44      uMHO <b>Temperature:</b> 11.38 <b>Dissolved Oxygen:</b> 12.08      mg/L <b>Other:</b> <b>Flow:</b> CFS
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TEST: Digestion Metals		METHOD: EPA 200.2					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Digestion Metals	04/02/2009				A Bass	4/2/2009	

TEST: ICP		METHOD: EPA 200.7					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Iron	290	µg/L	2.9	10	A Bass	4/2/2009	

TEST: ICP-MS		METHOD: EPA 200.8					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Aluminum	200	µg/L	6.4	10	M Pattanayek	4/7/2009	
Antimony	3.2	µg/L	0.33	1	M Pattanayek	4/7/2009	
Arsenic	U	µg/L	0.93	5	M Pattanayek	4/7/2009	
Barium	25	µg/L	2.5	5	M Pattanayek	4/7/2009	
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/7/2009	
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009	
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009	
Copper	1.5	µg/L	0.38	1	M Pattanayek	4/7/2009	
Lead	0.21J	µg/L	0.10	1	M Pattanayek	4/7/2009	
Lithium	0.55J	µg/L	0.23	1	M Pattanayek	4/7/2009	
Manganese	33	µg/L	0.42	1	M Pattanayek	4/7/2009	
Nickel	1.6	µg/L	0.25	1	M Pattanayek	4/7/2009	
Selenium	U	µg/L	1.3	5	M Pattanayek	4/7/2009	
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/8/2009	
Thallium	0.41J	µg/L	0.03	1	M Pattanayek	4/7/2009	
Vanadium	14	µg/L	3.4	5	M Pattanayek	4/7/2009	
Zinc	6.1	µg/L	1.9	5	M Pattanayek	4/7/2009	

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b>	K00002255001	<b>Field Determinations</b>		
<b>Project Name:</b>	TVA-Ash Spill	<b>pH:</b>	7.69	pH Units
<b>Sample Description:</b>	Emory River mile 12.1	<b>Chlorine, residual:</b>		
<b>Sampler Project Name:</b>	TVA Ash Spill	<b>Conductivity:</b>	44	uMHO
<b>Project Site No.:</b>	1	<b>Temperature:</b>	11.38	
<b>Station No.:</b>	EMORY012.1RO	<b>Dissolved Oxygen:</b>	12.08	mg/L
<b>Date/Time Collected:</b>	03/31/2009 10:30	<b>Other:</b>		
<b>Sampler's Name:</b>	Justin Fisher	<b>Flow:</b>		CFS
<b>County:</b>	ROANE - 73			
<b>Sample Matrix:</b>	Water			
<b>EFO:</b>	Knoxville			
<b>Sampling Agency:</b>	TDEC-WPC			
<b>Billing Code:</b>	327.34-20			
<b>Send Report To:</b>	TDEC-WPC			
<b>Agency Invoiced:</b>	TDEC-WPC			
<b>Priority Date:</b>	04/10/2009			
<b>Date/Time Received:</b>	03/31/2009 14:50			
<b>Received By:</b>	S Staller			

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL  
MDL - Method Detection Limit  
MQL - Method Quantitation Limit  
U - Undetected

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b> K00002255002	<b>Field Determinations</b>
<b>Project Name:</b> TVA-Ash Spill	<b>pH:</b> 7.22      pH Units
<b>Sample Description:</b> Emory River mile 2.1	<b>Chlorine, residual:</b>
<b>Sampler Project Name:</b> TVA Ash Spill	<b>Conductivity:</b> 55      uMHO
<b>Project Site No.:</b> 2	<b>Temperature:</b> 11.06
<b>Station No.:</b> EMORY002.1RO	<b>Dissolved Oxygen:</b> 11.23      mg/L
<b>Date/Time Collected:</b> 03/31/2009 11:23	<b>Other:</b>
<b>Sampler's Name:</b> Justin Fisher	<b>Flow:</b> CFS
<b>County:</b> ROANE - 73	
<b>Sample Matrix:</b> Water	
<b>EFO:</b> Knoxville	
<b>Sampling Agency:</b> TDEC-WPC	
<b>Billing Code:</b> 327.34-20	
<b>Send Report To:</b> TDEC-WPC	
<b>Agency Invoiced:</b> TDEC-WPC	
<b>Priority Date:</b> 04/10/2009	
<b>Date/Time Received:</b> 03/31/2009 14:50	
<b>Received By:</b> S Staller	

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/02/2009				A Bass	4/2/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	2000	µg/L	2.9	10	A Bass	4/2/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	4100	µg/L	160.0	250	M Pattanayek	4/8/2009
Antimony	3.8	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	11	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	110	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	0.63J	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Copper	10	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	5.7	µg/L	0.10	1	M Pattanayek	4/7/2009
Lithium	4.9	µg/L	0.23	1	M Pattanayek	4/7/2009
Manganese	62	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	5.9	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/7/2009
Silver	0.09J	µg/L	0.03	0.25	M Pattanayek	4/8/2009
Thallium	0.38J	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	32	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	12	µg/L	1.9	5	M Pattanayek	4/7/2009

# Preliminary Report

**Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.**

<b>Lab-Sample Number:</b> K00002255002	<b>Field Determinations</b>
<b>Project Name:</b> TVA-Ash Spill	<b>pH:</b> 7.22      pH Units
<b>Sample Description:</b> Emory River mile 2.1	<b>Chlorine, residual:</b>
<b>Sampler Project Name:</b> TVA Ash Spill	<b>Conductivity:</b> 55      uMHO
<b>Project Site No.:</b> 2	<b>Temperature:</b> 11.06
<b>Station No.:</b> EMORY002.1RO	<b>Dissolved Oxygen:</b> 11.23      mg/L
<b>Date/Time Collected:</b> 03/31/2009 11:23	<b>Other:</b>
<b>Sampler's Name:</b> Justin Fisher	<b>Flow:</b> CFS
<b>County:</b> ROANE - 73	
<b>Sample Matrix:</b> Water	
<b>EFO:</b> Knoxville	
<b>Sampling Agency:</b> TDEC-WPC	
<b>Billing Code:</b> 327.34-20	
<b>Send Report To:</b> TDEC-WPC	
<b>Agency Invoiced:</b> TDEC-WPC	
<b>Priority Date:</b> 04/10/2009	
<b>Date/Time Received:</b> 03/31/2009 14:50	
<b>Received By:</b> S Staller	

<b>TEST: Mercury</b>		<b>METHOD: EPA 245.1</b>				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b> K00002255003 <b>Project Name:</b> TVA-Ash Spill <b>Sample Description:</b> Emory River mile 2.1 <b>Sampler Project Name:</b> TVA Ash Spill <b>Project Site No.:</b> 2 <b>Station No.:</b> EMORY002.1RO-FD <b>Date/Time Collected:</b> 03/31/2009 11:23 <b>Sampler's Name:</b> Justin Fisher <b>County:</b> ROANE - 73 <b>Sample Matrix:</b> Water <b>EFO:</b> Knoxville <b>Sampling Agency:</b> TDEC-WPC <b>Billing Code:</b> 327.34-20 <b>Send Report To:</b> TDEC-WPC <b>Agency Invoiced:</b> TDEC-WPC <b>Priority Date:</b> 04/10/2009 <b>Date/Time Received:</b> 03/31/2009 14:50 <b>Received By:</b> S Staller	<b>Field Determinations</b> <b>pH:</b> 7.22      pH Units <b>Chlorine, residual:</b> <b>Conductivity:</b> 55      uMHO <b>Temperature:</b> 11.06 <b>Dissolved Oxygen:</b> 11.23      mg/L <b>Other:</b> <b>Flow:</b> CFS
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TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/02/2009				A Bass	4/2/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	1900	µg/L	2.9	10	A Bass	4/2/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	3600	µg/L	160.0	250	M Pattanayek	4/8/2009
Antimony	4.2	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	10	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	110	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	0.69J	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Copper	9.7	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	5.5	µg/L	0.10	1	M Pattanayek	4/7/2009
Lithium	5.0	µg/L	0.23	1	M Pattanayek	4/7/2009
Manganese	61	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	5.7	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/7/2009
Silver	0.07J	µg/L	0.03	0.25	M Pattanayek	4/8/2009
Thallium	0.64J	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	33	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	11	µg/L	1.9	5	M Pattanayek	4/7/2009

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b> K00002255003	<b>Field Determinations</b>
<b>Project Name:</b> TVA-Ash Spill	<b>pH:</b> 7.22      pH Units
<b>Sample Description:</b> Emory River mile 2.1	<b>Chlorine, residual:</b>
<b>Sampler Project Name:</b> TVA Ash Spill	<b>Conductivity:</b> 55      uMHO
<b>Project Site No.:</b> 2	<b>Temperature:</b> 11.06
<b>Station No.:</b> EMORY002.1RO-FD	<b>Dissolved Oxygen:</b> 11.23      mg/L
<b>Date/Time Collected:</b> 03/31/2009 11:23	<b>Other:</b>
<b>Sampler's Name:</b> Justin Fisher	<b>Flow:</b> CFS
<b>County:</b> ROANE - 73	
<b>Sample Matrix:</b> Water	
<b>EFO:</b> Knoxville	
<b>Sampling Agency:</b> TDEC-WPC	
<b>Billing Code:</b> 327.34-20	
<b>Send Report To:</b> TDEC-WPC	
<b>Agency Invoiced:</b> TDEC-WPC	
<b>Priority Date:</b> 04/10/2009	
<b>Date/Time Received:</b> 03/31/2009 14:50	
<b>Received By:</b> S Staller	

<b>TEST: Mercury</b>	<b>METHOD: EPA 245.1</b>					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL  
 MDL - Method Detection Limit  
 MQL - Method Quantitation Limit  
 U - Undetected

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b> K00002255004 <b>Project Name:</b> TVA-Ash Spill <b>Sample Description:</b> Emory River mile 2.1 <b>Sampler Project Name:</b> TVA Ash Spill <b>Project Site No.:</b> 2 <b>Station No.:</b> EMORY002.1RO-FB <b>Date/Time Collected:</b> 03/31/2009 11:23 <b>Sampler's Name:</b> Justin Fisher <b>County:</b> ROANE - 73 <b>Sample Matrix:</b> Water <b>EFO:</b> Knoxville <b>Sampling Agency:</b> TDEC-WPC <b>Billing Code:</b> 327.34-20 <b>Send Report To:</b> TDEC-WPC <b>Agency Invoiced:</b> TDEC-WPC <b>Priority Date:</b> 04/10/2009 <b>Date/Time Received:</b> 03/31/2009 14:50 <b>Received By:</b> S Staller	<b>Field Determinations</b> <b>pH:</b> 7.22      pH Units <b>Chlorine, residual:</b> <b>Conductivity:</b> 55      uMHO <b>Temperature:</b> 11.06 <b>Dissolved Oxygen:</b> 11.23      mg/L <b>Other:</b> <b>Flow:</b> CFS
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TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/02/2009				A Bass	4/2/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	U	µg/L	2.9	10	A Bass	4/2/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	U	µg/L	6.4	10	M Pattanayek	4/7/2009
Antimony	3.2	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	1.4J	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	U	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Copper	U	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	U	µg/L	0.10	1	M Pattanayek	4/7/2009
Lithium	U	µg/L	0.23	1	M Pattanayek	4/7/2009
Manganese	U	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	U	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	1.8J	µg/L	1.3	5	M Pattanayek	4/7/2009
Silver	0.05J	µg/L	0.03	0.25	M Pattanayek	4/8/2009
Thallium	0.03J	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	14	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	7.3	µg/L	1.9	5	M Pattanayek	4/7/2009

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b>	K00002255004	<b>Field Determinations</b>	
<b>Project Name:</b>	TVA-Ash Spill	<b>pH:</b>	7.22      pH Units
<b>Sample Description:</b>	Emory River mile 2.1	<b>Chlorine, residual:</b>	
<b>Sampler Project Name:</b>	TVA Ash Spill	<b>Conductivity:</b>	55      uMHO
<b>Project Site No.:</b>	2	<b>Temperature:</b>	11.06
<b>Station No.:</b>	EMORY002.1RO-FB	<b>Dissolved Oxygen:</b>	11.23      mg/L
<b>Date/Time Collected:</b>	03/31/2009    11:23	<b>Other:</b>	
<b>Sampler's Name:</b>	Justin Fisher	<b>Flow:</b>	CFS
<b>County:</b>	ROANE - 73		
<b>Sample Matrix:</b>	Water		
<b>EFO:</b>	Knoxville		
<b>Sampling Agency:</b>	TDEC-WPC		
<b>Billing Code:</b>	327.34-20		
<b>Send Report To:</b>	TDEC-WPC		
<b>Agency Invoiced:</b>	TDEC-WPC		
<b>Priority Date:</b>	04/10/2009		
<b>Date/Time Received:</b>	03/31/2009    14:50		
<b>Received By:</b>	S Staller		

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	//

J - Estimated value between MDL and MQL  
MDL - Method Detection Limit  
MQL - Method Quantitation Limit  
U - Undetected

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b> K00002255005 <b>Project Name:</b> TVA-Ash Spill <b>Sample Description:</b> Emory River mile 1.7 <b>Sampler Project Name:</b> TVA Ash Spill <b>Project Site No.:</b> 3 <b>Station No.:</b> EMORY001.7RO <b>Date/Time Collected:</b> 03/31/2009 11:40 <b>Sampler's Name:</b> Justin Fisher <b>County:</b> ROANE - 73 <b>Sample Matrix:</b> Water <b>EFO:</b> Knoxville <b>Sampling Agency:</b> TDEC-WPC <b>Billing Code:</b> 327.34-20 <b>Send Report To:</b> TDEC-WPC <b>Agency Invoiced:</b> TDEC-WPC <b>Priority Date:</b> 04/10/2009 <b>Date/Time Received:</b> 03/31/2009 14:50 <b>Received By:</b> S Staller	<b>Field Determinations</b> <b>pH:</b> 7.01      pH Units <b>Chlorine, residual:</b> <b>Conductivity:</b> 41      uMHO <b>Temperature:</b> 10.75 <b>Dissolved Oxygen:</b> 11.63      mg/L <b>Other:</b> <b>Flow:</b> CFS
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TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/02/2009				A Bass	4/2/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	320	µg/L	2.9	10	A Bass	4/2/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	190	µg/L	12.8	20	M Pattanayek	4/8/2009
Antimony	3.1	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	1.2J	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	27	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Copper	2.7	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	0.39J	µg/L	0.10	1	M Pattanayek	4/7/2009
Lithium	0.52J	µg/L	0.23	1	M Pattanayek	4/7/2009
Manganese	35	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	1.4	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	2.0J	µg/L	1.3	5	M Pattanayek	4/7/2009
Silver	0.03J	µg/L	0.03	0.25	M Pattanayek	4/8/2009
Thallium	U	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	16	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	6.9	µg/L	1.9	5	M Pattanayek	4/7/2009

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b> K00002255005	<b>Field Determinations</b>
<b>Project Name:</b> TVA-Ash Spill	<b>pH:</b> 7.01      pH Units
<b>Sample Description:</b> Emory River mile 1.7	<b>Chlorine, residual:</b>
<b>Sampler Project Name:</b> TVA Ash Spill	<b>Conductivity:</b> 41      uMHO
<b>Project Site No.:</b> 3	<b>Temperature:</b> 10.75
<b>Station No.:</b> EMORY001.7RO	<b>Dissolved Oxygen:</b> 11.63      mg/L
<b>Date/Time Collected:</b> 03/31/2009 11:40	<b>Other:</b>
<b>Sampler's Name:</b> Justin Fisher	<b>Flow:</b> CFS
<b>County:</b> ROANE - 73	
<b>Sample Matrix:</b> Water	
<b>EFO:</b> Knoxville	
<b>Sampling Agency:</b> TDEC-WPC	
<b>Billing Code:</b> 327.34-20	
<b>Send Report To:</b> TDEC-WPC	
<b>Agency Invoiced:</b> TDEC-WPC	
<b>Priority Date:</b> 04/10/2009	
<b>Date/Time Received:</b> 03/31/2009 14:50	
<b>Received By:</b> S Staller	

<b>TEST: Mercury</b>		<b>METHOD: EPA 245.1</b>				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	//

J - Estimated value between MDL and MQL  
 MDL - Method Detection Limit  
 MQL - Method Quantitation Limit  
 U - Undetected

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b> K00002255006 <b>Project Name:</b> TVA-Ash Spill <b>Sample Description:</b> Emory River mile 0.1 <b>Sampler Project Name:</b> TVA Ash Spill <b>Project Site No.:</b> 4 <b>Station No.:</b> EMORY000.1RO <b>Date/Time Collected:</b> 03/31/2009 11:53 <b>Sampler's Name:</b> Justin Fisher <b>County:</b> ROANE - 73 <b>Sample Matrix:</b> Water <b>EFO:</b> Knoxville <b>Sampling Agency:</b> TDEC-WPC <b>Billing Code:</b> 327.34-20 <b>Send Report To:</b> TDEC-WPC <b>Agency Invoiced:</b> TDEC-WPC <b>Priority Date:</b> 04/10/2009 <b>Date/Time Received:</b> 03/31/2009 14:50 <b>Received By:</b> S Staller	<b>Field Determinations</b> <b>pH:</b> 6.99 pH Units <b>Chlorine, residual:</b> <b>Conductivity:</b> 42 uMHO <b>Temperature:</b> 11.42 <b>Dissolved Oxygen:</b> 11.43 mg/L <b>Other:</b> <b>Flow:</b> CFS
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TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/02/2009				A Bass	4/2/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	1500	µg/L	2.9	10	A Bass	4/2/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	920	µg/L	128.0	200	M Pattanayek	4/8/2009
Antimony	3.3	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	2.8J	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	61	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	0.28J	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Copper	6.3	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	2.6	µg/L	0.10	1	M Pattanayek	4/7/2009
Lithium	2.6	µg/L	0.23	1	M Pattanayek	4/7/2009
Manganese	91	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	3.8	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/7/2009
Silver	0.03J	µg/L	0.03	0.25	M Pattanayek	4/8/2009
Thallium	0.08J	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	22	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	12	µg/L	1.9	5	M Pattanayek	4/7/2009

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b>	K00002255006	<b>Field Determinations</b>		
<b>Project Name:</b>	TVA-Ash Spill	<b>pH:</b>	6.99	pH Units
<b>Sample Description:</b>	Emory River mile 0.1	<b>Chlorine, residual:</b>		
<b>Sampler Project Name:</b>	TVA Ash Spill	<b>Conductivity:</b>	42	uMHO
<b>Project Site No.:</b>	4	<b>Temperature:</b>	11.42	
<b>Station No.:</b>	EMORY000.1RO	<b>Dissolved Oxygen:</b>	11.43	mg/L
<b>Date/Time Collected:</b>	03/31/2009 11:53	<b>Other:</b>		
<b>Sampler's Name:</b>	Justin Fisher	<b>Flow:</b>		CFS
<b>County:</b>	ROANE - 73			
<b>Sample Matrix:</b>	Water			
<b>EFO:</b>	Knoxville			
<b>Sampling Agency:</b>	TDEC-WPC			
<b>Billing Code:</b>	327.34-20			
<b>Send Report To:</b>	TDEC-WPC			
<b>Agency Invoiced:</b>	TDEC-WPC			
<b>Priority Date:</b>	04/10/2009			
<b>Date/Time Received:</b>	03/31/2009 14:50			
<b>Received By:</b>	S Staller			

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b> K00002255007	<b>Field Determinations</b>
<b>Project Name:</b> TVA-Ash Spill	<b>pH:</b> 7.26      pH Units
<b>Sample Description:</b> Clinch River mile 2.3 near Hwy 70 bridge	<b>Chlorine, residual:</b>
<b>Sampler Project Name:</b> TVA Ash Spill	<b>Conductivity:</b> 82      uMHO
<b>Project Site No.:</b> 5	<b>Temperature:</b> 12.34
<b>Station No.:</b> CLINC002.3RO	<b>Dissolved Oxygen:</b> 11.33      mg/L
<b>Date/Time Collected:</b> 03/31/2009 12:08	<b>Other:</b>
<b>Sampler's Name:</b> Justin Fisher	<b>Flow:</b> CFS
<b>County:</b> ROANE - 73	
<b>Sample Matrix:</b> Water	
<b>EFO:</b> Knoxville	
<b>Sampling Agency:</b> TDEC-WPC	
<b>Billing Code:</b> 327.34-20	
<b>Send Report To:</b> TDEC-WPC	
<b>Agency Invoiced:</b> TDEC-WPC	
<b>Priority Date:</b> 04/10/2009	
<b>Date/Time Received:</b> 03/31/2009 14:50	
<b>Received By:</b> S Staller	

<b>TEST: Digestion Metals</b>	<b>METHOD: EPA 200.2</b>
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ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/02/2009				A Bass	4/2/2009

<b>TEST: ICP</b>	<b>METHOD: EPA 200.7</b>
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ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	450	µg/L	2.9	10	A Bass	4/2/2009

<b>TEST: ICP-MS</b>	<b>METHOD: EPA 200.8</b>
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ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	370	µg/L	12.8	20	M Pattanayek	4/8/2009
Antimony	3.2	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	U	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	32	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Copper	1.8	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	0.42J	µg/L	0.10	1	M Pattanayek	4/7/2009
Lithium	1.4	µg/L	0.23	1	M Pattanayek	4/7/2009
Manganese	45	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	1.7	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/7/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/8/2009
Thallium	U	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	14	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	5.4	µg/L	1.9	5	M Pattanayek	4/7/2009

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b>	K00002255007	<b>Field Determinations</b>	
<b>Project Name:</b>	TVA-Ash Spill	<b>pH:</b>	7.26      pH Units
<b>Sample Description:</b>	Clinch River mile 2.3 near Hwy 70 bridge	<b>Chlorine, residual:</b>	
<b>Sampler Project Name:</b>	TVA Ash Spill	<b>Conductivity:</b>	82      uMHO
<b>Project Site No.:</b>	5	<b>Temperature:</b>	12.34
<b>Station No.:</b>	CLINC002.3RO	<b>Dissolved Oxygen:</b>	11.33      mg/L
<b>Date/Time Collected:</b>	03/31/2009    12:08	<b>Other:</b>	
<b>Sampler's Name:</b>	Justin Fisher	<b>Flow:</b>	CFS
<b>County:</b>	ROANE - 73		
<b>Sample Matrix:</b>	Water		
<b>EFO:</b>	Knoxville		
<b>Sampling Agency:</b>	TDEC-WPC		
<b>Billing Code:</b>	327.34-20		
<b>Send Report To:</b>	TDEC-WPC		
<b>Agency Invoiced:</b>	TDEC-WPC		
<b>Priority Date:</b>	04/10/2009		
<b>Date/Time Received:</b>	03/31/2009    14:50		
<b>Received By:</b>	S Staller		

TEST: Mercury

METHOD: EPA 245.1

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b> K00002255008	<b>Field Determinations</b>
<b>Project Name:</b> TVA-Ash Spill	<b>pH:</b> 7.79      pH Units
<b>Sample Description:</b> Clinch River mile 4.5 near Sugar Grove Valley R	<b>Chlorine, residual:</b>
<b>Sampler Project Name:</b> TVA Ash Spill	<b>Conductivity:</b> 209      uMHO
<b>Project Site No.:</b> 6	<b>Temperature:</b> 12.41
<b>Station No.:</b> CLINC004.5RO	<b>Dissolved Oxygen:</b> 11.58      mg/L
<b>Date/Time Collected:</b> 03/31/2009 12:21	<b>Other:</b>
<b>Sampler's Name:</b> Justin Fisher	<b>Flow:</b> CFS
<b>County:</b> ROANE - 73	
<b>Sample Matrix:</b> Water	
<b>EFO:</b> Knoxville	
<b>Sampling Agency:</b> TDEC-WPC	
<b>Billing Code:</b> 327.34-20	
<b>Send Report To:</b> TDEC-WPC	
<b>Agency Invoiced:</b> TDEC-WPC	
<b>Priority Date:</b> 04/10/2009	
<b>Date/Time Received:</b> 03/31/2009 14:50	
<b>Received By:</b> S Staller	

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/02/2009				A Bass	4/2/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	330	µg/L	2.9	10	A Bass	4/2/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	180	µg/L	6.4	10	M Pattanayek	4/7/2009
Antimony	3.2	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	U	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	35	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	U	µg/L	0.11	1	M.Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Copper	1.4	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	0.29J	µg/L	0.10	1	M Pattanayek	4/7/2009
Lithium	2.5	µg/L	0.23	1	M Pattanayek	4/7/2009
Manganese	32	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	1.8	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/7/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/8/2009
Thallium	U	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	14	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	3.1J	µg/L	1.9	5	M Pattanayek	4/7/2009

# Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

<b>Lab-Sample Number:</b>	K00002255008	<b>Field Determinations</b>		
<b>Project Name:</b>	TVA-Ash Spill	<b>pH:</b>	7.79	pH Units
<b>Sample Description:</b>	Clinch River mile 4.5 near Sugar Grove Valley R	<b>Chlorine, residual:</b>		
<b>Sampler Project Name:</b>	TVA Ash Spill	<b>Conductivity:</b>	209	uMHO
<b>Project Site No.:</b>	6	<b>Temperature:</b>	12.41	
<b>Station No.:</b>	CLINC004.5RO	<b>Dissolved Oxygen:</b>	11.58	mg/L
<b>Date/Time Collected:</b>	03/31/2009 12:21	<b>Other:</b>		
<b>Sampler's Name:</b>	Justin Fisher	<b>Flow:</b>		CFS
<b>County:</b>	ROANE - 73			
<b>Sample Matrix:</b>	Water			
<b>EFO:</b>	Knoxville			
<b>Sampling Agency:</b>	TDEC-WPC			
<b>Billing Code:</b>	327.34-20			
<b>Send Report To:</b>	TDEC-WPC			
<b>Agency Invoiced:</b>	TDEC-WPC			
<b>Priority Date:</b>	04/10/2009			
<b>Date/Time Received:</b>	03/31/2009 14:50			
<b>Received By:</b>	S Staller			

TEST: Mercury

METHOD: EPA 245.1

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected