

# KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT November 22-28, 2010

Aerial Image of Kingston Ash Slide (10/21/2010)



Date of imagery: 10/21/2010  
Surrounding area: 07/23/2010

Tennessee Valley Authority  
Geographic Information & Engineering

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# KINGSTON ASH RECOVERY PROJECT

## WEEKLY REPORT

November 22-28, 2010

### HIGHLIGHTS

- To date, 412 unit trains have been loaded, and approximately 3,985,600 million tons of ash have been transported to the landfill in Uniontown, Alabama. It is anticipated that ash shipments to Alabama will end next week.

### SAFETY

- Two (2) site specific HSE orientations were conducted for the week – 1,741 to date. One hundred ninety-seven (197) HSE site orientation refresher courses have been conducted to date.
- One (1) Safety Observation Reports were submitted for the week – 1,561 to date; 1,553 have been closed.
- No incidents or injuries reported.

### INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Continued recovering cenospheres from the onsite ponds.
- Mayse Construction is preparing material to start installing utility lines across Swan Pond Circle Road Underpass Bridge next week.
- Mayse is continuing demobilization of other activities not associated with the Swan Pond Circle Road Underpass.

### ASH DREDGING & PROCESSING

- Jacobs continued preparation of the On Scene Coordinator (OSC) Report for the time-critical removal action.

### ASH DISPOSITION

- Loaded and transported five (5) unit trains this week.
- Addition of polymer to rail cars continued throughout the week for moisture control.
- Continued to work with the plant to minimize the impact of the delivery of coal trains, limestone cars, ammonia cars, and the loaded and empty ash trains.
- MACTEC demobilization plan has been approved by EPA. All demobilization related work packages have been submitted by MACTEC and approved. The first major piece of equipment was demobilized this week.
- Phillips & Jordan has unloaded and placed all ash from the ash cycle unit trains through unit train 409. Train 410 has arrived and been inspected at Uniontown.
- All required empties for Kingston loading have been delivered to Kingston and the return of rail cars to Norfolk Southern service has begun. A final inspection checklist is being used. The first train of 122 cars cleaned and inspected with checklist documentation has been released to Norfolk Southern,
- Norfolk Southern is performing final mechanical inspections of the first 122 rail cars returned in Birmingham.

### SKIMMER WALL

- Aquarius Marine, LLC trimmed sheet piling on the caissons and prepared for caisson cap pours next week.

### DIKE REINFORCEMENT

- Due to the short week, only about 50' of buttress was completed this week. Construction is at 43% complete.
- Jacobs continued to monitor the dikes at Kingston on a daily basis.

## ROUTINE MONITORING

### Surface Water Sampling

- Surface water sampling for all analyses specified in the EE/CA sampling and analysis plan is complete.
- Automated samplers have been deployed at two locations in the Clinch River, three locations in the Emory River, and in the Swan Pond Embayment Clean Water Ditch in accordance with the NTCRA Surface Water Monitoring Plan. The samplers on the Emory and Clinch Rivers will be activated whenever local rainfall exceeds 1.0" in a 24-hour period and/or flow on the Emory River at Oakdale exceeds 10,000 cubic feet per second (cfs). The automated sampler in Swan Pond Embayment is activated whenever local rainfall exceeds 0.5" in a 24-hour period.
- On Monday, November 22, a test run of all automated samplers was performed following tubing change out. All samplers performed successfully as programmed.
- There were rainfall events exceeding 0.5" in a 24-hour period on Tuesday, November 23, and Friday, November 26, that required activation of the Swan Pond Embayment automatic samplers. Neither rainfall event exceeded the criteria to trigger sampling from the Emory and Clinch River automated samplers.
- Swan Pond Embayment surface water sampling continues routinely once per week at two locations along the Swan Pond Embayment drainage. A weekly Stilling Pond sample is also being collected.

### Air Sampling

- All air monitoring results from TVA air samplers were below the current Ambient Air Monitoring Plan (AAMP) action levels.
- TVA operates five PM2.5 Beta Attenuation Monitors (BAMs) and one PM10 Tapered Element Oscillating Microbalance (TEOM) 24/7 at fixed stations encircling the KRP. These monitors output hourly gravimetric PM concentrations. BAM gravimetric PM concentrations are posted to the KRP regulator's webpage. TVA also collects filters for PM2.5 gravimetric lab analysis from one BGI sampler, filters for metals analyses from two HiVolume PM10 samplers and two Total Suspended Particulate (TSP) samplers, and filters for silica analysis from two low volume SKC samplers. All the filter samplers are 24-hour samples, located at PS07 (peninsula next to east embayment), and follow the 1/3 day EPA air quality schedule.

### Data Management

- Electronic data deliverables are flowing into the Equis database.
- Data validation continues for electronic data packages received from the laboratories.

### Biota Sampling

- Raccoon sampling at background locations continues in conjunction with the University of Tennessee.
- Removal of tree swallow bird boxes continues.

### River System EE/CA Sampling and Analysis

- Ash deposition and submerged sediment sampling was initiated on October 18. Sampling for ash deposits and submerged sediments has been completed in the two Tennessee River reaches. Sampling continues in the Clinch River. Ash deposit and submerged sediment sampling will continue into the month of December.

### Non-Routine Sampling

- None to report.

## DREDGE CELL

- Due to the persistent wet conditions of the ash in the embayment and the Thanksgiving holidays, very little ash was stacked in the former Dredge Cell during the week.

## PLANT ASH DISPOSITION

- Civil Projects operated the sluice trench and ash pond areas to process plant-generated ash for disposal.

## EMBAYMENT ASH PROCESS

- TVA Civil Projects excavated and hauled ash from the North Embayment to the Ballfield for drying operations.

## COMMUNICATIONS

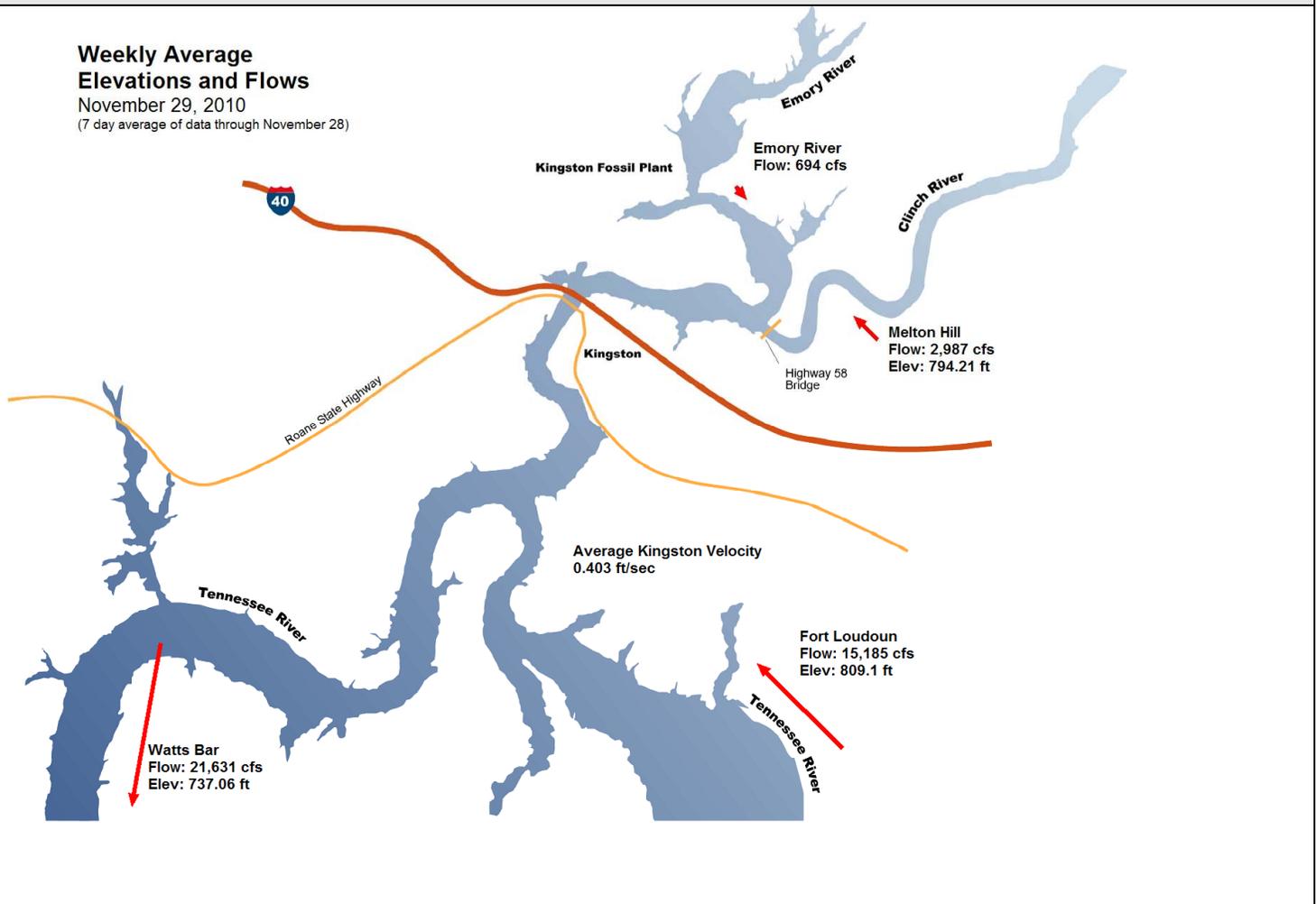
### Communications

- Posted to Website: Integrity Evaluation of Dike 2 for Extreme Rainfall Events fact sheet, Weekly Report, and Weekly Area Resident Update.
- Sent weekly update to the CAG, public officials and members of the public who have signed up to receive weekly emails.
- Submitted copy of the next edition of *Inside the Cell* newsletter for printing.

### Outreach

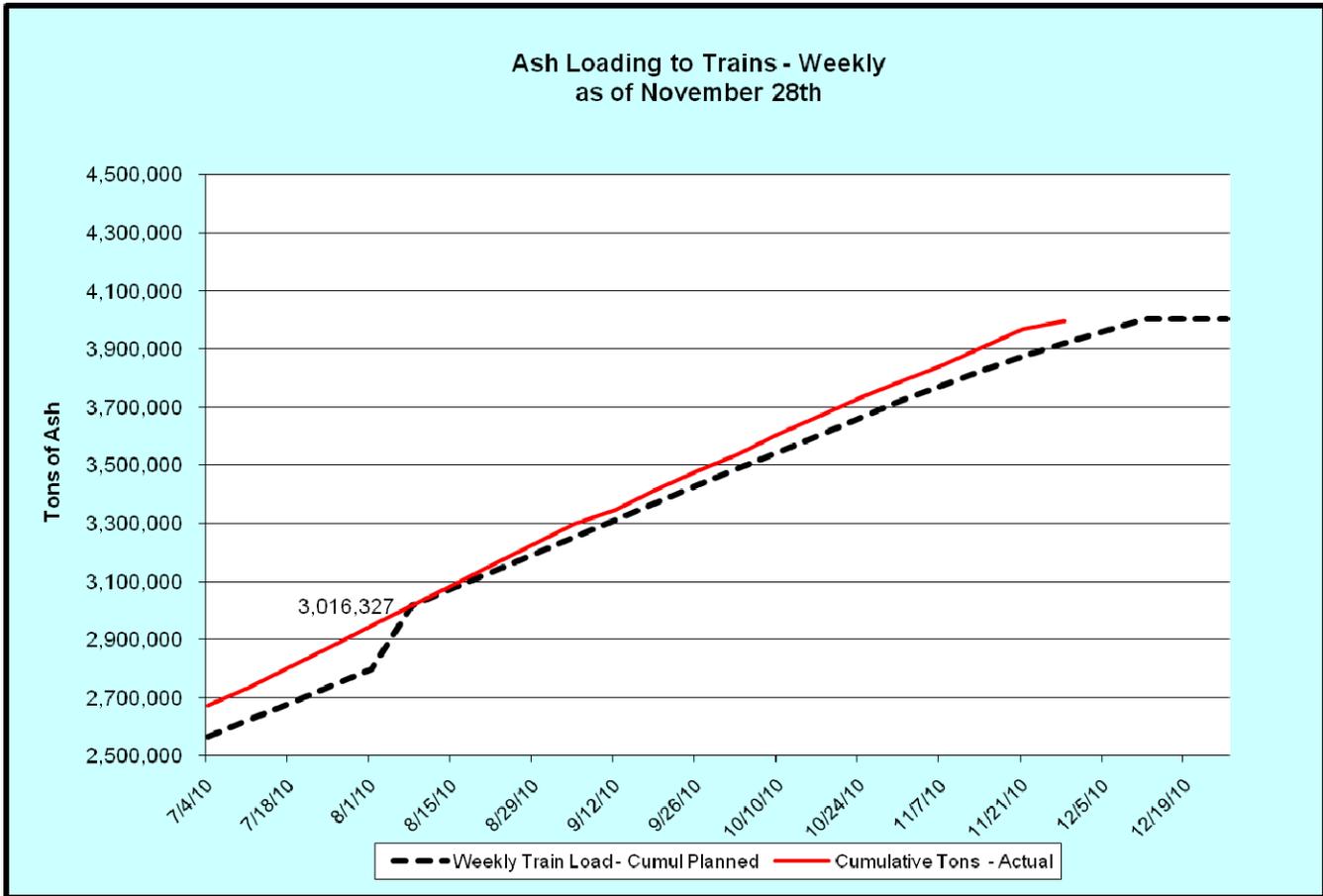
- Provided updates to employees, customers, residents, and public officials on site activities.
- Conducted first in a series of classes as part of site Educational Initiative at Rockwood High School.
- Arranged site briefing and helicopter tour for newly elected officials as well as the editor of the Knoxville News Sentinel.
- Updated the Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.

## RIVER OPERATIONS

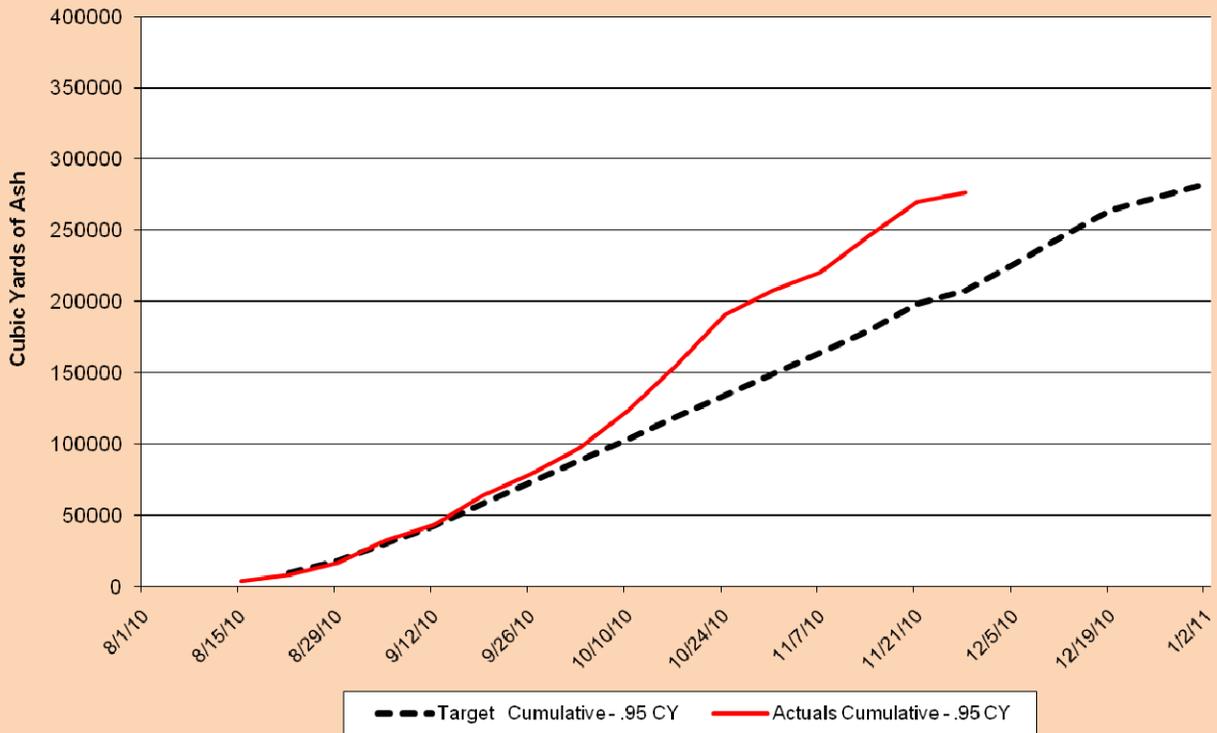


Kingston Recovery Project		Date: November 22-28, 2010		Field Report	
<b>Safety</b>				<b>Weekly Total</b>	<b>FY - Cumulative Total</b>
Near Misses				0	0
First Aid Incidents				0	0
Recordable Incidents				0	0
Recordable Lost Time Incidents				0	0
<b>Environmental</b>					
<b>Org</b>	<b>Matrix</b>	<b>Samples*</b>	<b>Analyses*</b>	<b>Results*</b>	
TVA	Air - Real-Time (Final)	--	--	267,188	
TVA	Air – Fixed	3,467	--	5,020	
TVA	Surface/Utility Water	4,970	43,464	211,867	
TVA	Ground Water (spring and well)	136	1,476	6,047	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	307	586	4,490	
TVA	Biota	2,368	5,181	63,297	
*Week Ending 11/24/10					
<b>Ash Removal</b>	<b>Time-Critical</b>			<b>Weekly Total</b>	<b>Cumulative Total</b>
River Dredging				NA	2,772,786
East of Dike 2				NA	736,691
<b>Ash Movement to Ballfield</b>	<b>Time-Critical</b>				
Sluice Trench	Estimated CY (modified to an in-place volume)			0	146,234
West Storage	Estimated CY (modified to an in-place volume)			0	198,664
Dredge Cell (Cell 1)	Estimated CY (modified to an in-place volume)			38,112	454,849
Dredge Cell (Test Embankment Cell 3)	Estimated CY (modified to an in-place volume)			0	147,816
Lateral Expansion (Cell 4)	Estimated CY (modified to an in-place volume)			0	41,078
Ash Excavation (Mid-Embay to Ballfield)	Estimated CY (modified to an in-place volume)			0	2,000
<b>Ash Disposal</b>	<b>Time-Critical</b>			<b>Weekly Total</b>	<b>Cumulative Total</b>
Ash Disposal	Estimated Tons			41,182	3,985,598
<b>Ash Removal / Excavation</b>	<b>Non-Time-Critical</b>			<b>Weekly Total</b>	<b>Cumulative Total</b>
Middle Embayment	Estimated CY (modified to an in-place volume)			0	238,953
North Embayment	Estimated CY (modified to an in-place volume)			0	0
From Dredge Cell	Estimated CY (modified to an in-place volume)			0	7,150
From West Storage (TC)	Estimated CY (modified to an in-place volume)			0	23,896
From Mid-Embay to Ballfield	Estimated CY (modified to an in-place volume)			6,249	29,818
From North Embay to Ballfield	Estimated CY (modified to an in-place volume)			7,733	7,733
From Mid Embay to Lateral Expansion	Estimated CY (modified to an in-place volume)			1,442	1,442

Ash Stacking	Non-Time-Critical			Weekly Total	Cumulative Total
Subgrade Recontouring Central Dredge Cell (Cell 3)	Estimated CY (modified to an in-place compacted volume)			0	41,444
Ash Stacking Central/North Dredge Cell (Cells 2 & 3)	Estimated CY (modified to an in-place compacted volume)			405	196,427
Ash Placement in Temporary Storage	Estimated CY (modified to an in-place compacted volume)			7,210	32,290



**Ash Excavation from Embayments - Weekly  
as of November 28th**



**PERSONNEL BECOMING AVAILABLE JANUARY 1, 2011**

Steve Arington  
 Steve Baumgardner  
 John R. (Bob) Crawford  
 Joel Ross  
 Jason Welch