

# KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

November 8-14, 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 8-14, 2010

### HIGHLIGHTS

- To date, 401 unit trains have been loaded, and approximately 3.9 million tons of ash have been transported to the landfill in Uniontown, Alabama.
- The Swan Pond Circle Road Bridge was completed and opened to traffic at 9:30 am on Wednesday, November 10.

### SAFETY

- Eight (8) site specific HSE orientations were conducted for the week – 1,737 to date. One hundred ninety-seven (197) HSE site orientation refresher courses have been conducted to date.
- Eighteen (18) Safety Observation Reports were submitted for the week – 1,555 to date; 1,545 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 completed installing utilities to the approaches of Swan Pond Circle Road underpass bridge. The utility project is 99% complete.

### ASH DREDGING & PROCESSING

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

### ASH DISPOSITION

- Loaded and transported six (6) unit trains this week.
- The reduction by Norfolk Southern to a 90-car limit per train was lifted on November 9 -- 104 to 106 car trains will be shipped from November 9 forward.
- Addition of polymer to all rail cars continued throughout the week.
- 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's demobilization plan has been approved by EPA. All demobilization related work packages have been submitted by MACTEC and approved.
- A MACTEC demobilization planning meeting is being held weekly and an action item list updated for progress to date.

### SKIMMER WALL

- Aquarius Marine, LLC completed Tremie concrete placement in Skimmer Wall Caisson #3 and completed setting six of eight concrete panels in the second bay.

### DIKE REINFORCEMENT

- Approximately 150' of buttress was completed this week. Construction is at 42% complete.
- Water levels have begun to drop which should improve productivity.
- Quality control test for the sand showed increasing amounts of fines. The Roane County quarry has adjusted their screen and is producing sand that should meet the project needs. Stantec continued to work on finalizing design efforts for the buttress.
- 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. There were no rainfall events during the week of November 8 that required activation of the automatic 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.

### Sediment Sampling

- None to report.

### 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.
- Migration of data from the TVA Equis to the EPA SCRIBE database is ongoing.

### Biota Sampling

- Raccoon sampling at background locations continues in conjunction with the University of Tennessee.

### River System EE/CA Sampling and Analysis

- Ash deposition and submerged sediment sampling was initiated on October 18, beginning in the Tennessee River. Sampling will continue into the month of December.

### Non-Routine Sampling

- None to report.

## DREDGE CELL

- Continued ash stacking, although moisture contents of materials from the embayment were high, which slowed the rate of stacking.
- Held one-on-one meetings with prospective bidders on the perimeter containment wall construction.

## PLANT ASH DISPOSITION

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

## EMBAYMENT ASH PROCESS

- Mid-State construction completed the guardrail installation, stripping, and marking of the bridge and roadway and opened Swan Pond Circle Road to traffic.
- TVA Civil Projects opened access to the North Embayment.

## COMMUNICATIONS

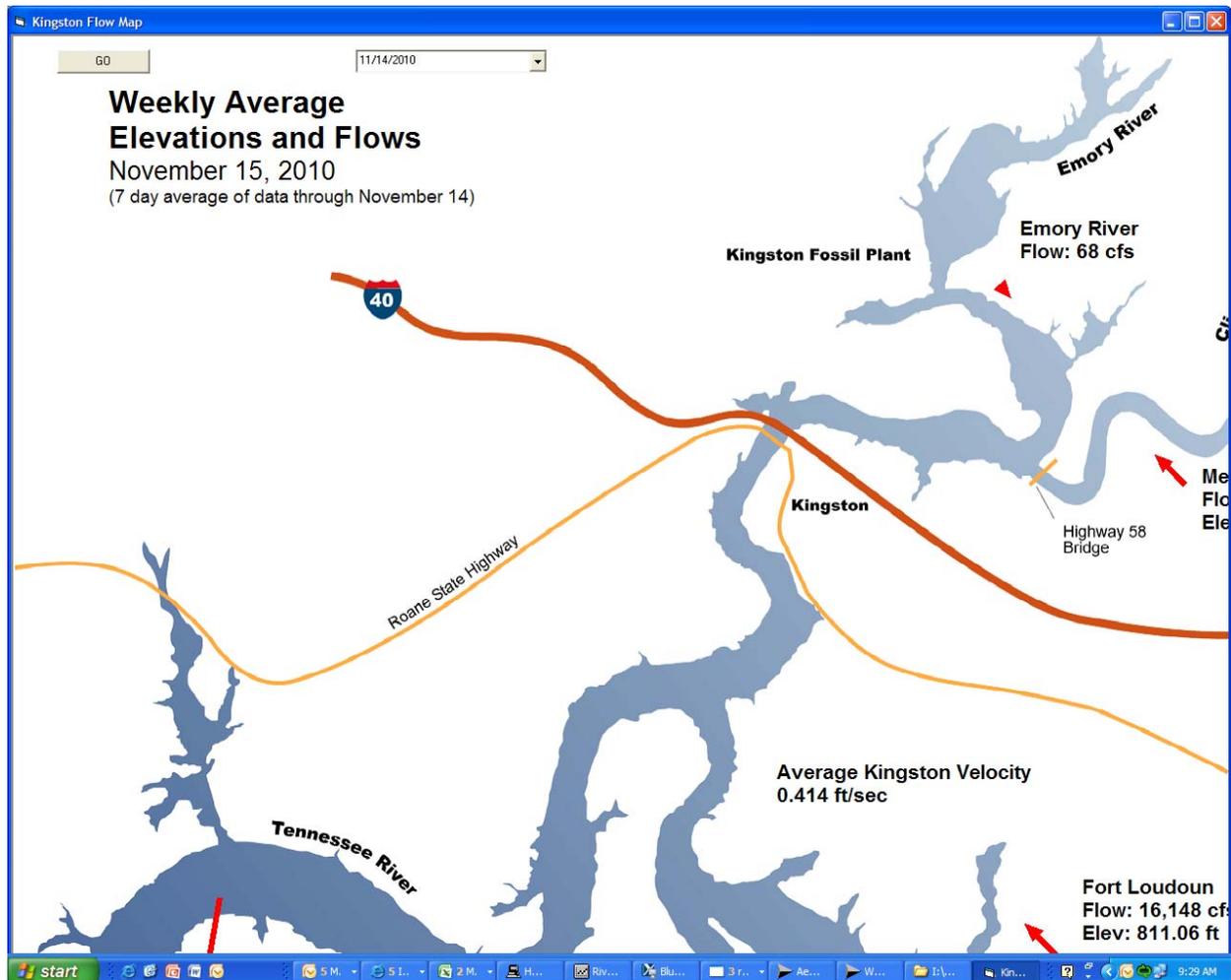
### Communications

- Posted to Website: Weekly Report and Weekly Area Resident Update.
- Sent weekly update to the CAG, public officials and members of the public who have signed up for weekly emails.

### Outreach

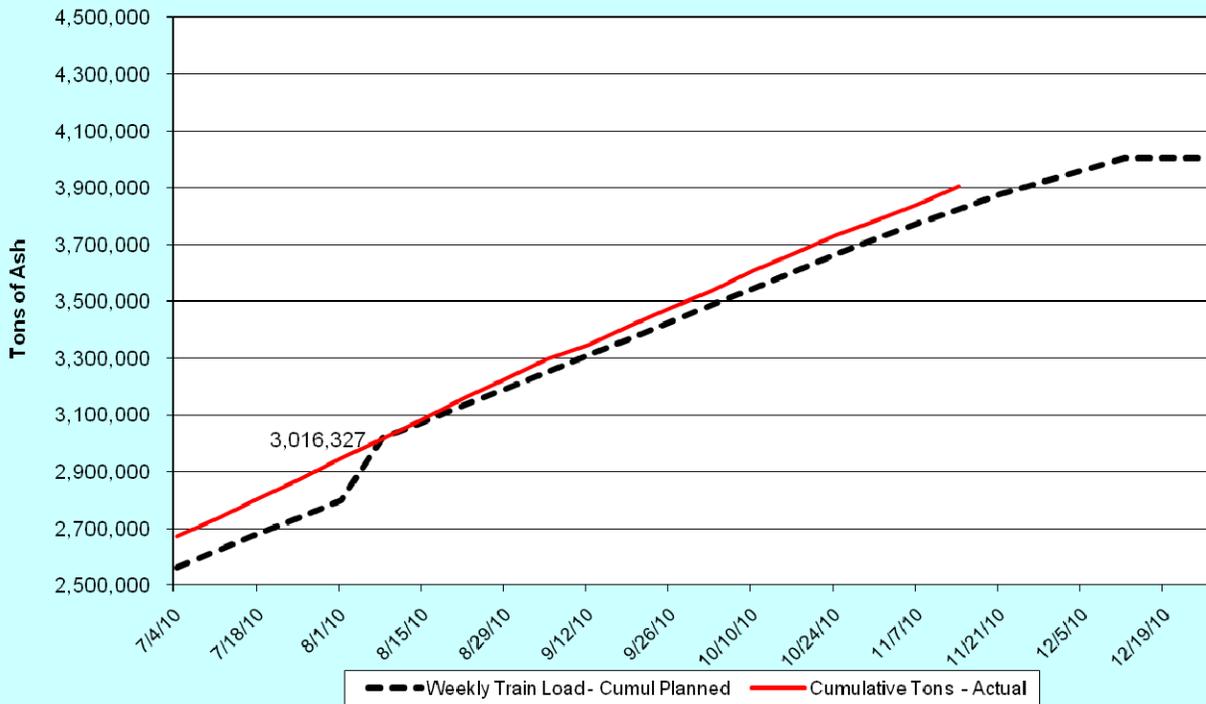
- Provided updates to employees, customers, residents, and public officials on site activities.
- Continued planning for the second in a series of classes as part of the site Educational Initiative at Roane County and Harriman High Schools.
- Met with Rockwood High School representative to present the first in a series of classes as part of the site Educational Initiative.
- Held a site luncheon to mark the end of train shipments of ash to Alabama and to recognize outstanding site safety record.
- 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 8-14, 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	3,355	--	4,911	
TVA	Surface/Utility Water	4,913	43,146	210,448	
TVA	Ground Water (spring and well)	131	1,452	5,964	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	307	586	4,490	
TVA	Biota	2,284	4,973	61,127	
*Week Ending 11/11/10					
<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)			2,550	141,448
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)			28,209	391,071
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)			2,888	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			53,317	3,891,191
<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)			20,394	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)			5,204	7,204
<b>Ash Stacking</b>	<b>Non-Time-Critical</b>			<b>Weekly Total</b>	<b>Cumulative Total</b>
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)			20,729	196,022
Ash Placement in Temporary Storage	Estimated CY (modified to an in-place compacted volume)			982	982

Ash Loading to Trains - Weekly  
as of November 14th



Ash Excavation from Embayments - Weekly  
as of November 14th

