

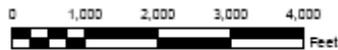
# KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

January 31 – February 6, 2011

Aerial Image of Kingston Ash Slide (12/23/2010)



Filename: ImageOnly\_01301221\_8-11.pdf



Date of imagery: 12/23/2010  
Surrounding area: 02/27/2010

Tennessee Valley Authority  
Geographic Information & Engineering

Prepared by:  
Mary McDermott

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# KINGSTON ASH RECOVERY PROJECT

## WEEKLY REPORT

January 31 – February 6, 2011

### HIGHLIGHTS

- A planning session with TVA, Stantec, and Jacobs was conducted to review upcoming work, identify interface requirements, and discuss ways to streamline the work.

### SAFETY

- Seven (7) site specific HSE orientations were conducted for the week – 1,773 to date. One hundred ninety-eight (198) HSE site orientation refresher courses have been conducted to date.
- Twenty (20) Safety Observation Reports were submitted for the week – 1,650 to date; 1,642 have been closed.
- The last recordable incident occurred on December 22, 2010, when a laborer became stuck in the wet ash and experienced back pain. The incident investigation continues.
- A First Aid incident occurred on February 4 during removal of the rail. An incident investigation was performed. The work protocol and the JSA have been modified as a result of the investigation.

### INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Continued recovering cenospheres from the onsite ponds.
- TVA Civil Projects continued construction of MAP relocation areas and is approximately 90% complete.
- Mayse Construction completed all utility restoration and enhancements, and demobilized from the site.

### STILLING POND DREDGING

- The 10" dredge operated 27.3 hours and removed 5,806 CY from the Stilling Pond. A bathymetric survey is scheduled for February 7, 2011.

### ASH DISPOSITION

- A meeting to review the 2011 rail yard inspection report was held on February 1. Maintenance plans are under development.

### SKIMMER WALL

- Jacobs continued work on the design of the navigation light and as-built drawings for the Skimmer Wall (85% complete).

### DIKE REINFORCEMENT

- Continued buttress construction on Segment A. Approximately 3,120 feet of buttress has been completed.
- Stantec provided revised drawings for buttress construction at the intersection of Dike C and the East Dike to build a truck turnaround in the area.
- A pre-bid meeting for the demolition of the bridge over the intake channel was held. Vendor bids are due February 17, 2011.

### ROUTINE MONITORING

#### Surface Water Sampling

- 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" 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 was a rainfall

event greater than 0.5" on Tuesday February 1, 2011 that triggered storm flow sampling in Swan Pond Embayment only. 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**

- The bird boxes are being repaired in preparation of turning future sampling activity over to Virginia Tech.
- Planning and preparation for spring amphibian sampling is ongoing.

#### **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 Tennessee and Clinch River reaches. Ash deposition sampling will slow over the next two weeks to free up field staff to initiate the sediment bioassay and pore water sampling task.
- Preparation for the bioassay testing was completed this past week. A readiness review to finalize the planning was conducted on February 2. Sampling is scheduled to begin on February, 2011.

#### **Non-Routine Sampling**

- Sediment samples were collected from the Tennessee River for shipment to the US Army Corps of Engineers, Engineer Research and Development Center (ERDC). The samples will be used in support of sediment transport studies being performed by the ERDC.

### **DREDGE CELL**

- Continued to treat wetter material in the Ballfield with lime, and then stacked the lime-treated ash intermixed with untreated ash from the North Embayment in the Central Dredge Cell.
- Removed wetter ash from the Dredge Cell as weather conditions impacted the proofrolled surface.
- Continued drilling of soil borings around the perimeter of the Dredge Cell/Ash Pond to define the bedrock surface. Completed the soil borings for the borrow area investigation.

### **LATERAL EXPANSION AND ASH POND**

- No activity.

### **PLANT ASH DISPOSITION**

- TVA Civil Projects dragline excavated 1,540 CY of bottom ash from the south end of the Sluice Trench.
- S&S Railroad Construction mobilized a six-person crew and began work on removal of Ash Track 2 (AT2) and Ash Track 3 (AT3).
  - A JSA training and review meeting was held on February 1<sup>st</sup>, prior to work starting
  - Work completed during the week was the removal of the rail switches to access AT2 and AT3 from AT1 and replacement with through rail connections. This work isolated AT2 and AT3 from any future train access and maintains access to AT1 from both the North and the South.
  - Removal of rail from AT2 was initiated with approximately 200 feet of rail removed.
  - A first aid incident occurred during rail removal on February 4, and an incident investigation was completed. The work protocol and the JSA have been modified as a result of the investigation.

## EMBAYMENT ASH PROCESS

- TVA Civil Projects excavated and hauled over 6,200 CY of ash material from the North Embayment.

## COMMUNICATIONS

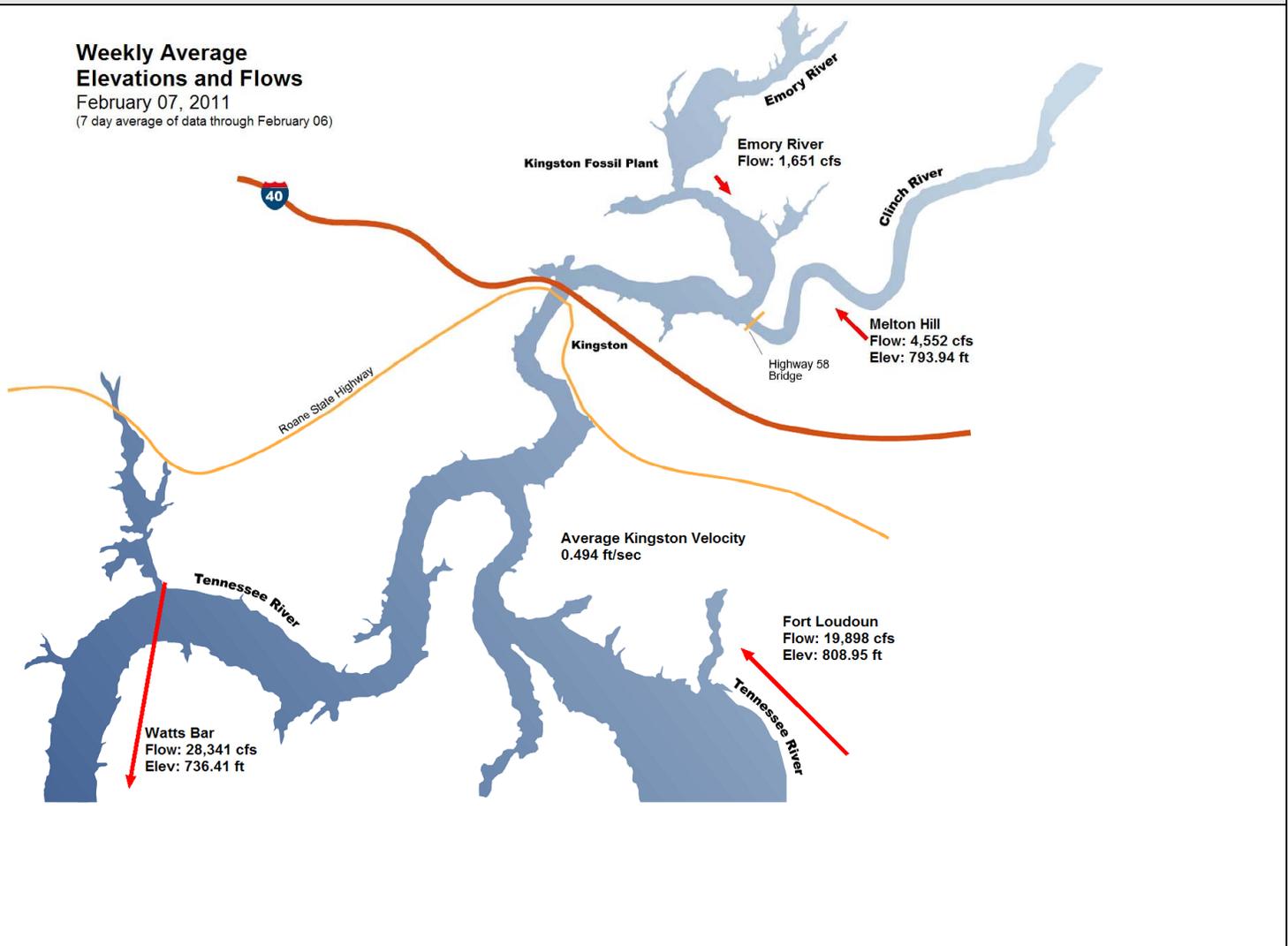
### Communications

- Added Weekly Report and Weekly Area Resident Update to Kingston Ash Recovery website.
- Sent weekly update to the CAG, public officials and members of the public who have signed up to receive weekly emails.
- Delivered January edition of *Inside the Cell* to site and plant employees.
- Updated site bulletin boards with newsletter and current safety information.
- Updated Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.
- Continued work on Power Point presentation for public meeting.

### Outreach

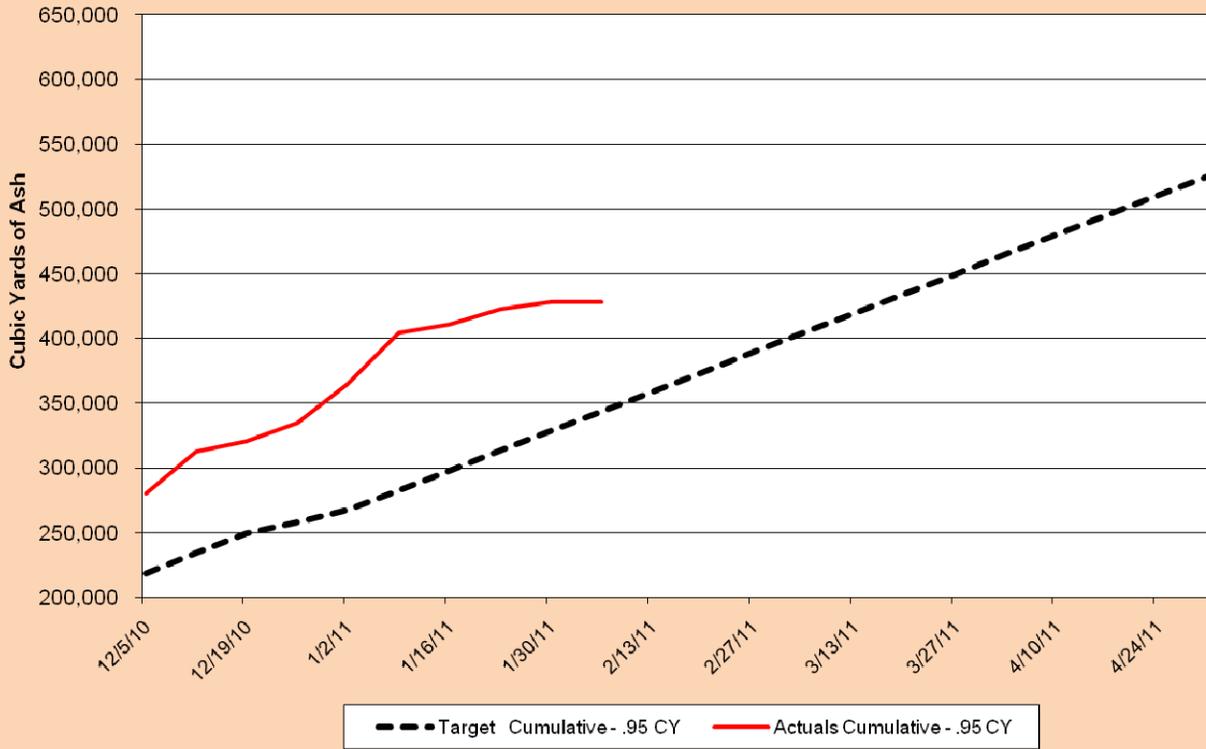
- Continued planning for third class in the series of Educational Initiative for local high schools.
- Provided a site update at the monthly Community Advisory Group meeting.

## RIVER OPERATIONS



Kingston Recovery Project		Date: January 31 – February 6, 2011		Field Report	
<b>Safety</b>				<b>Weekly Total</b>	<b>FY - Cumulative Total</b>
Near Misses				0	0
First Aid Incidents				0	4
Recordable Incidents				0	2
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	3,944	--	5,793	
TVA	Surface/Utility Water	5,119	44,235	216,367	
TVA	Ground Water (spring and well)	163	1,684	6,871	
TVA	Ash	77	102	1,673	
TVA	Soil/Sediment	452	850	5,192	
TVA	Biota	2,354	5,238	63,050	
*Week Ending 01/27/11					
<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)			-5,852	235,421
North Embayment	Estimated CY (modified to an in-place volume)			6,234	91,650
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-Embayment to Ballfield	Estimated CY (modified to an in-place volume)			-334	45,614
From North Embayment to Ballfield	Estimated CY (modified to an in-place volume)			0	18,852
From Mid Embayment to Lateral Expansion	Estimated CY (modified to an in-place volume)			0	35,091
From North Embayment to Lateral Exp	Estimated CY (modified to an in-place volume)			0	6,103
<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)			5,972	277,866
Ash Stacking South Dredge Cell (Cell 1)	Estimated CY (modified to an in-place compacted volume)			0	0
Ash Stacking Lateral Expansion (Cell 4)	Estimated CY (modified to an in-place compacted volume)			0	0
Ash Stacking Ash Pond	Estimated CY (modified to an in-place compacted volume)			0	0
Ash Placement in Temporary Storage	Estimated CY (modified to an in-place compacted volume)			-7043	92,368

Ash Excavation from Embayments - Weekly  
as of February 6th



Ash Stacking in Dredge Cell - Weekly  
as of February 6th

