

# KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

December 6-12, 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

December 6-12, 2010

### HIGHLIGHTS

- The initial draft of the On Scene Coordinator Report was submitted for review.

### SAFETY

- Three (3) site specific HSE orientations were conducted for the week – 1,746 to date. One hundred ninety-seven (197) HSE site orientation refresher courses have been conducted to date.
- Twelve (12) Safety Observation Reports were submitted for the week – 1,582 to date; 1,567 have been closed.
- There were three (3) First Aid incidents reported during the week of November 29 – December 3.
- On December 6, 2010, a recordable injury occurred (leg sprain).

### INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Continued recovering cenospheres from the onsite ponds.
- Mayse Construction continued installing the utility lines across Swan Pond Circle Bridge. Work is planned to be completed in mid-December.

### ASH DREDGING & PROCESSING

- Submitted initial draft of the OSC Report for concurrent TVA, EPA review.

### ASH DISPOSITION

- Unloading of the final train by Phillips & Jordan (P&J) was reported complete on December 4, 2010.
- P&J reported that some cleanup work remained with the possibility of a few hundred yards of additional ash being weighed and placed in the landfill.
- MACTEC continued the demobilization work and is on schedule for completion on December 16.
- An all parties planning conference call coordinating ash cycle set closeout issues is being held biweekly
- The return of final trains of empty rail cars to Norfolk Southern service has been completed without incident. Notification of inspection and return to service has been received from NS for 379 rail cars.

### SKIMMER WALL

- Aquarius Marine, LLC continued cleanup and demobilization work.

### DIKE REINFORCEMENT

- Approximately 200 feet of buttress was completed this week. Construction is at 44% 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" 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.
- Automated samplers were re-positioned, all tubing changed out, and functional testing performed, following the high flow event of last week.

- 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 has been suspended, pending a re-evaluation of reference locations.
- Benthic invertebrate sampling was performed on December 6 and 7.

#### **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 January.
- The initiation of seasonally exposed sediment sampling task is being delayed until winter pool levels are reached.

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

- None to report.

### **DREDGE CELL**

- Wet conditions precluded ash stacking during the first part of the week. Beginning Thursday, Dec 9, some wet materials were moved from the Dredge Cell to the Ballfield to dry; hauled drier materials from the North Embayment to the Dredge Cell for stacking.
- Received proposals from nine (9) bidders on the Perimeter Stabilization wall. The team met to evaluate those proposals on the basis of experience, technical approach, management approach, and cost.

### **PLANT ASH DISPOSITION**

- No plant ash recovery or processing activities were performed.
- Free water volume for future plant ash discharge was maintained by dredging CERCLA ash from the Stilling Pond to the Lateral Expansion area.
- Removal of CERCLA ash from the Ballfield to 770' elevation was conducted during the week; stockpiling and windrowing it to dry.

### **EMBAYMENT ASH PROCESS**

- TVA Civil Projects excavated and hauled ash from the North and Embayments in limited amounts due to the wet conditions.

### **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 to receive weekly emails.
- Worked on copy for December *Inside the Cell* newsletter.
- Finalized copy and photos for ad in Roane County News.

## Outreach

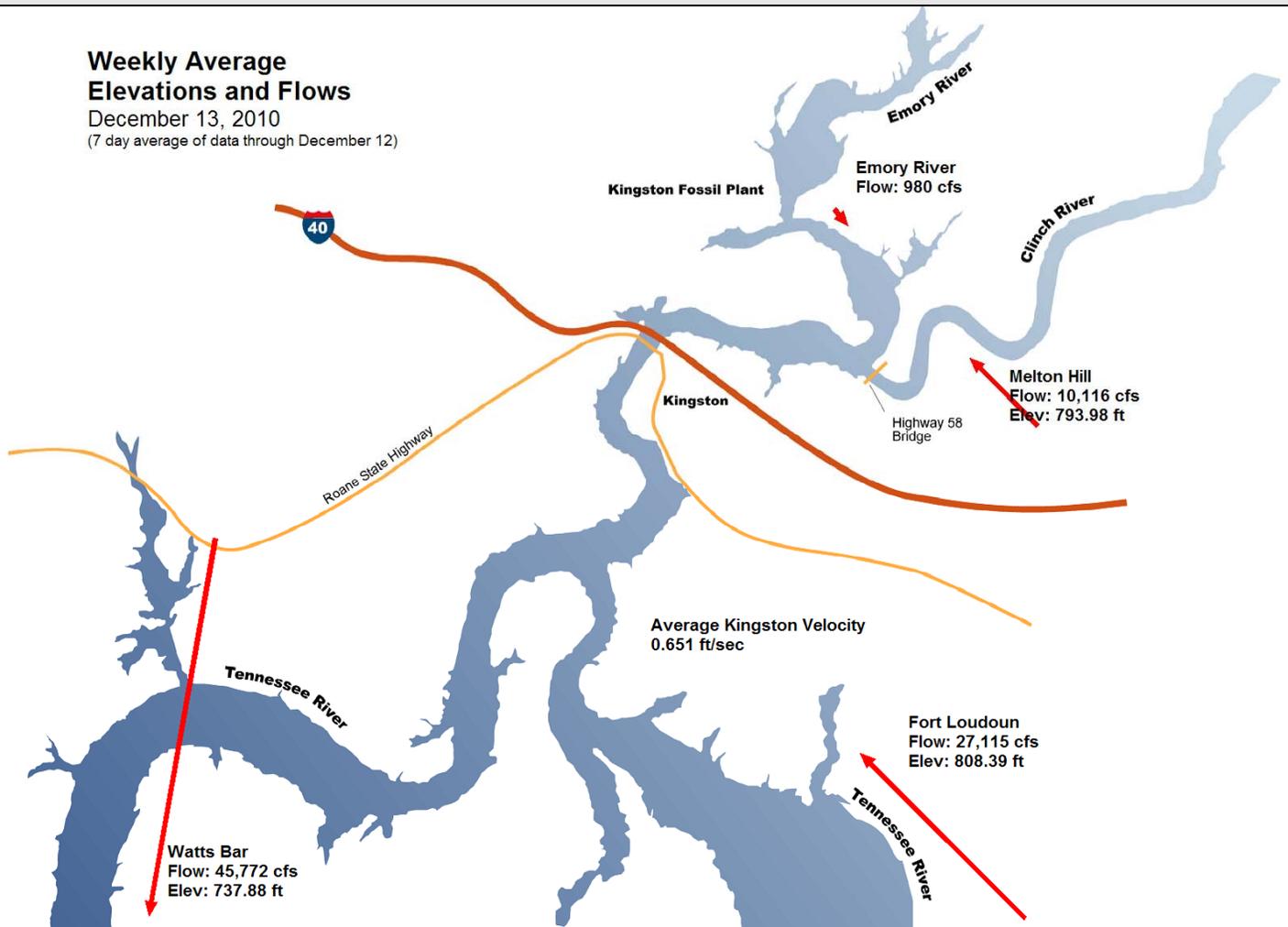
- Provided updates to employees, customers, residents, and public officials on site activities.
- Conducted second session of the Educational Initiative at Harriman High School for more than 200 students.
- Took Boy Scout troop on tour of the plant and ash recovery site
- Updated Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.

## RIVER OPERATIONS

### Weekly Average Elevations and Flows

December 13, 2010

(7 day average of data through December 12)



Kingston Recovery Project		Date: December 6-12, 2010		Field Report	
<b>Safety</b>				<b>Weekly Total</b>	<b>FY - Cumulative Total</b>
Near Misses				0	0
First Aid Incidents				0	3
Recordable Incidents				1	1
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	3,557	--	5,182	
TVA	Surface/Utility Water	5,061	44,007	215,095	
TVA	Ground Water (spring and well)	150	1,530	6,236	
TVA	Ash	77	102	1,673	
TVA	Soil/Sediment	359	753	5,010	
TVA	Biota	2,429	5,318	64,959	
*Week Ending 12/9/10					
<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)			4,075	153,988
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)			0	458,924
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			0	4,021,935
<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)			19,312	19,312
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)			10,116	43,633
From North Embay to Ballfield	Estimated CY (modified to an in-place volume)			0	7,733
From Mid Embay to Lateral Expansion	Estimated CY (modified to an in-place volume)			2,467	4,494

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)			14,010	210,437
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)			15,528	51,832

