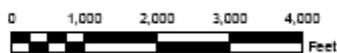


# KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

March 21-27, 2011

Aerial Image of Kingston Ash Slide (02/16/2011)



Date of imagery: 02/16/2011

Filename: Image016\_20110216\_011.pdf

Tennessee Valley Authority  
Geographic Information & Engineering

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Issue (Date/Time)  
03/29/2011 4:15:34 PM

# KINGSTON ASH RECOVERY PROJECT

## WEEKLY REPORT

March 21-27, 2011

<b>HIGHLIGHTS</b>
<ul style="list-style-type: none"> <li>Completed approximately 4,100 feet of Dike C buttress work; it is now 77% complete.</li> <li>TVA Civil Projects stacked 25,115 CY in the Dredge Cell.</li> </ul>
<b>SAFETY</b>
<ul style="list-style-type: none"> <li>Twelve (12) site specific HSE orientations were conducted for the week – 1,838 to date. One hundred ninety-nine (199) HSE site orientation refresher courses have been conducted to date.</li> <li>Six (6) Safety Observation Reports were submitted for the week – 1,756 to date; 1,754 have been closed.</li> <li>The last recordable incident occurred on December 22, 2010.</li> </ul>
<b>INFRASTRUCTURE/ASH MANAGEMENT</b>
<ul style="list-style-type: none"> <li>Efforts for site maintenance, dust control, and HAZWOPER control continued.</li> <li>Continued recovering cenospheres from the onsite ponds.</li> </ul>
<b>STILLING POND DREDGING</b>
<ul style="list-style-type: none"> <li>No activity.</li> </ul>
<b>TIME CRITICAL ASH DISPOSITION</b>
<ul style="list-style-type: none"> <li>Continued revisions to the OSC Report for the time-critical removal action in conjunction with EPA.</li> <li>Project closure documentation and records turnover are underway.</li> </ul>
<b>ASH SLURRY &amp; POND TSS CONTROL</b>
<ul style="list-style-type: none"> <li>TVA Civil Projects' dragline did not operate during the week.</li> <li>TSS sampling was performed throughout the ash slurry system and used to control polymer addition rates</li> <li>Stilling Pond TSS averaged 6.8 for the week and polymer addition rates were reduced to the minimum level.</li> </ul>
<b>BALLFIELD OPERATION</b>
<ul style="list-style-type: none"> <li>S &amp; S Railroad Construction continued removal of rails and associated metal parts from the site. <ul style="list-style-type: none"> <li>Work performed by S&amp;S this week was preparation of small parts (spikes, bolts and plates) for scrap haulage. Several truckloads of scrap were hauled.</li> <li>All work was performed without incident or accident.</li> </ul> </li> <li>Lime processed material was hauled from the Ballfield during the week and mass balance calculations indicate that 3,792 cubic yards of ash remain to be removed to return the Ballfield to 770' elevation as of March 27.</li> </ul>
<b>SKIMMER WALL</b>
<ul style="list-style-type: none"> <li>No activity.</li> </ul>
<b>DIKE REINFORCEMENT</b>
<ul style="list-style-type: none"> <li>Completed approximately 4,100 feet of buttress. Calculation for percent complete will now be based on 5,280 feet instead of 5,760 feet. Percent complete is now 77% complete. The length change is related to the reference point for measuring the distance and does not reflect a reduction in overall length to be completed.</li> <li>Working on providing responses to EPA comments on the bridge removal. The contractor is being asked to remove all the piers and is revising the estimate.</li> <li>Continued working on developing final costs for siphon and diffuser work.</li> </ul>

## ROUTINE MONITORING

### Surface Water Sampling

- There were no rainfall events that triggered storm flow sampling for the week ending March 25, 2011.
- Daily pH monitoring was initiated in the Dirty Water Ditch and the Settling Ditch to obtain baseline conditions prior to wall construction pilot testing.

### Air Sampling

- All air monitoring results for the week ending March 25, 2011, from TVA air samplers were below the current Ambient Air Monitoring Plan (AAMP) action levels.

### Data Management

- The first technical memorandum for surface water in support of the NTCRA EECA was submitted to TDEC and EPA on March 23, 2011.
- The NTCRA EECA technical memorandum for amphibians is under internal review.
- The NTCRA EECA technical memorandum for heron, goose, and osprey eggs is under internal review.

### Biota Sampling

- Spring amphibian sampling was completed week of March 25, 2011.

### River System EE/CA Sampling and Analysis

- Ash deposition and submerged sediment sampling continued in Emory River Reach C this week.
- Replenishment water collection continues in from CRM 7.0 in support of the first round of bulk sediment bioassay testing from the Clinch River.

### Non-Routine Sampling

- None to report.

## DREDGE CELL

- Continued ash stacking in the Dredge Cell, and lime treatment in each of 9 lime treatment pits.
- Continued mobilization for the perimeter stabilization demonstration section, including planning documents.
- TVA Civil Projects stacked 25,115 CY in the Dredge Cell for the week.

## LATERAL EXPANSION

- Continued drilling for installation of the new geotechnical instrumentation.

## PLANT ASH DISPOSITION

- TVA Civil Projects' dragline did not operate during the week.

## EMBAYMENT ASH PROCESS

- TVA Civil Projects excavated and hauled 17,416 CY of ash from the North Embayment and 4,570 CY from the Middle 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.
- Updated Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.
- Continued to update and edit On Scene Coordinator report.
- Worked on special edition of *Inside the Cell* newsletter highlighting severe weather actions and evacuation routes.

## Outreach

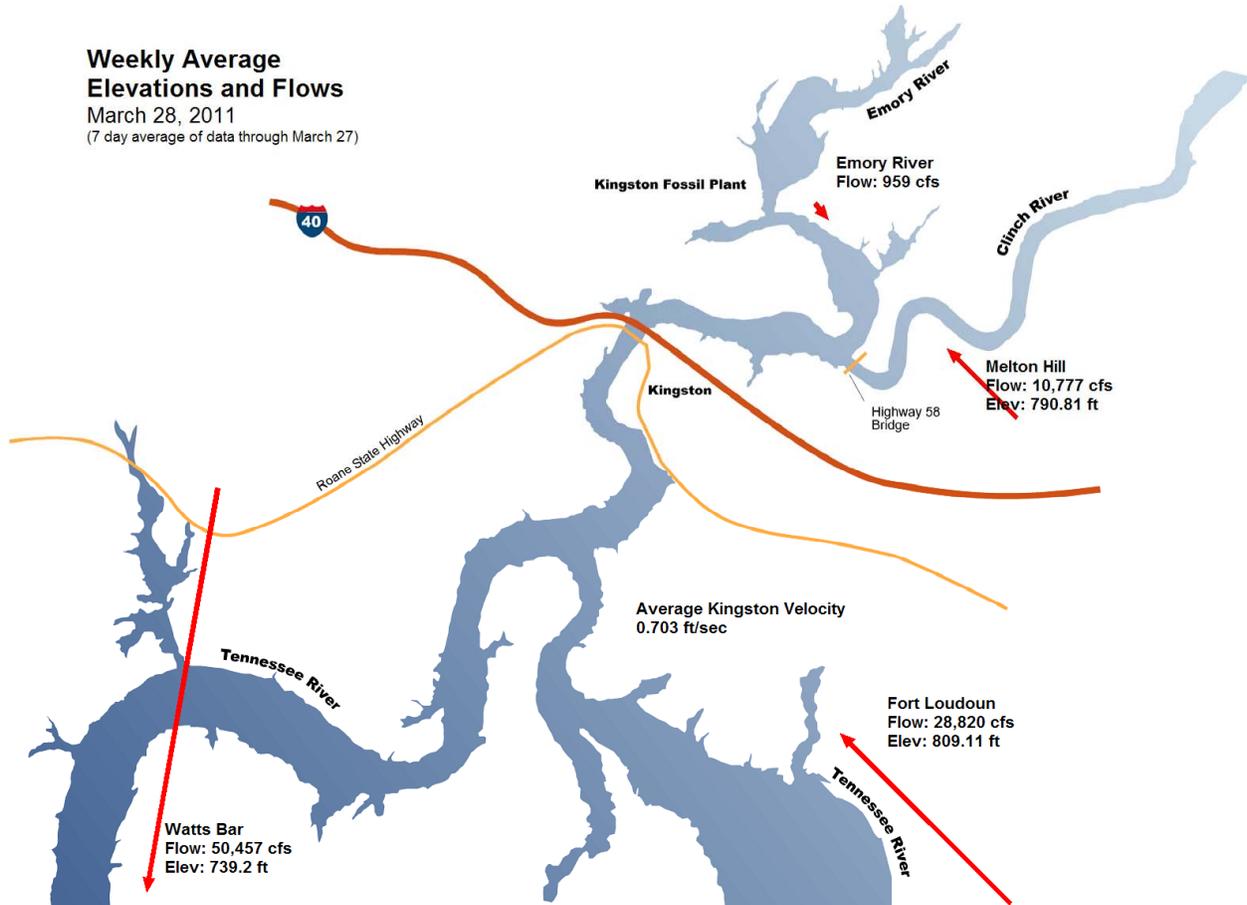
- On Friday, March 25, briefings and tours were provided for the Community Advisory Group and Congressman Chuck Fleischmann and his staff.

## RIVER OPERATIONS

### Weekly Average Elevations and Flows

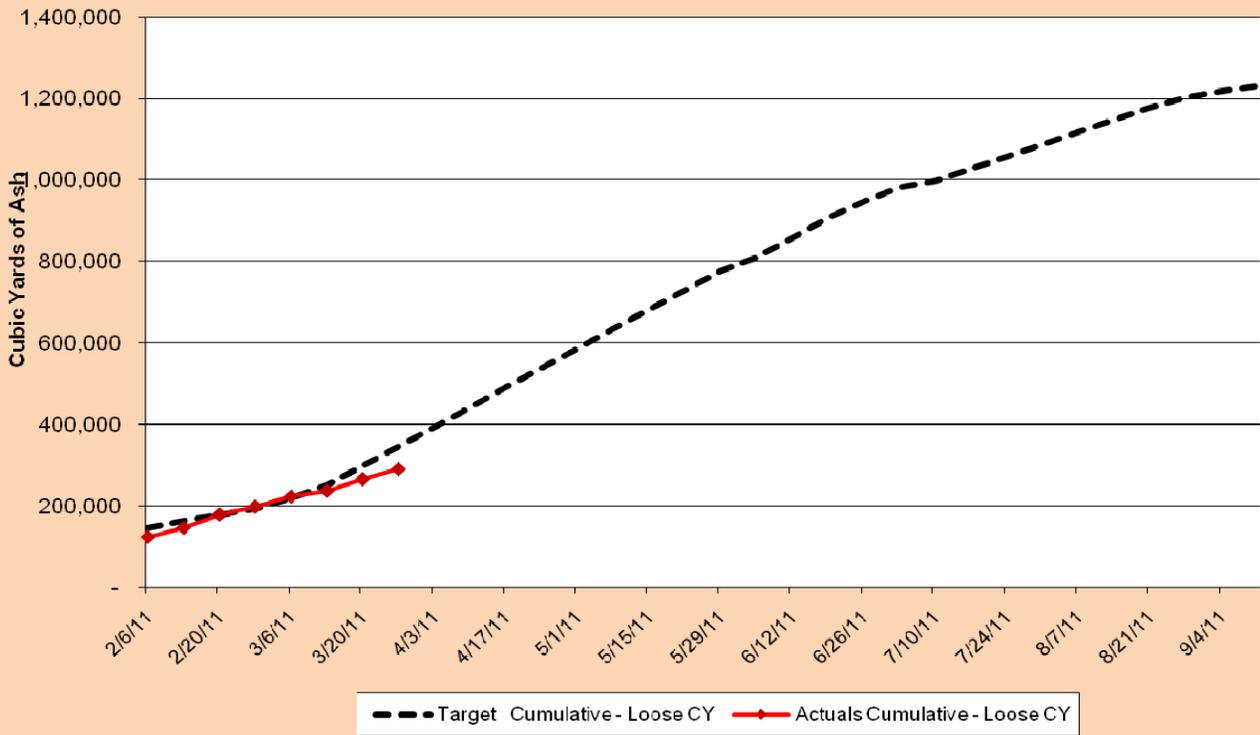
March 28, 2011

(7 day average of data through March 27)



Kingston Ash Recovery Project		Date: March 21-27, 2011		Field Report	
<b>Safety</b>			<b>Weekly Total</b>	<b>FY - Cumulative Total</b>	
Near Misses			0	0	
First Aid Incidents			0	8	
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	4,306	--	6,307	
TVA	Surface/Utility Water	5,265	45,492	222,612	
TVA	Ground Water (spring and well)	176	1,761	7,184	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	617	1,164	8,263	
TVA	Biota	2,489	5,681	67,519	
*Week Ending 03/17/11					
<b>Ash Removal / Excavation</b>	<b>Non-Time-Critical</b>			<b>Weekly Total</b>	<b>Cumulative Total*</b>
From West Storage TC to Dredge Cell	Estimated CY (modified to an in-place volume) Time Critical			0	17,834
Mid Embay to Dredge Cell	Estimated CY (modified to an in-place volume)			4,570	178,272
North Embay to Dredge Cell	Estimated CY (modified to an in-place volume)			10,725	148,416
From Dredge Cell	Estimated CY (modified to an in-place volume)			0	5,336
From Mid-Embay to Ball Field	Estimated CY (modified to an in-place volume)			0	33,871
From North Embay to Ball Field	Estimated CY (modified to an in-place volume)			4,819	45,499
From Mid Embay to Lateral Expansion	Estimated CY (modified to an in-place volume)			0	27,328
From North Embay to Lateral Exp	Estimated CY (modified to an in-place volume)			1,872	8,657
From North Embay to Mid Embayment	Estimated CY (modified to an in-place volume)			0	3,198
<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	30,930
Subgrade Recontouring North Dredge Cell (Cell 2)	Estimated CY (modified to an in-place compacted volume)			0	3,198
Subgrade Recontouring Lateral Expansion (Cell 2)	Estimated CY (modified to an in-place compacted volume)			0	0
Ash Stacking Central/North Dredge Cell (Cells 2 & 3)	Estimated CY (modified to an in-place compacted volume)			25,115	346,316
Ash Stacking South Dredge Cell (Cell 1)	Estimated CY (modified to an in-place compacted volume)			0	0
Ash Stacking Lateral Exp (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 in Temporary Storage	Estimated CY (modified to an in-place compacted volume)			-7,394	29,145

Ash Excavation from North Embayment - Weekly  
as of March 27th



Ash Stacking in Dredge Cell - Weekly  
as of March 27th

