

KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT March 15-21, 2010

Aerial Image of Kingston Ash Slide (01/11/2010)



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Date of map imagery: 01/11/2010

Tennessee Valley Authority
E&T - Environmental Resources
Geographic Information & Engineering

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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

MARCH 15-21, 2010

HIGHLIGHTS

- Cumulatively, just over 2,889,150 cubic yards of ash have been removed from the river and east of Dike 2.
- To date, 181 unit trains, with a total of approximately 1,712,900 tons, have been loaded and transported to Alabama.
- Began utilizing Ash Track 3 for loading operations. All switching operations of rail cars from the yard to the loading tracks are now occurring from the south side of the plant. There are no switches of rail cars across Swan Pond Road except inbound empty and outbound loaded trains.
- TVA's Kingston Ash Recovery Project General Manager presented EE/CA information to Rockwood Rotary and Roane County Educators.
- TVA's Kingston Ash Recovery Project Environmental Manager gave a project update to the Bradley County, TN Chamber of Commerce.

SAFETY

Program Summary

- SORs from the Site Wide Safety Stand Down are continuing to be processed. All the SORs have been documented and nearly half of the SORs for the Stand Down have been resolved.
- 31 site specific HSE orientations were conducted for the week – 1,383 to date.
- 14 Safety Observation Reports submitted for the week: 745 to date; 649 of which have been closed.

Recordable Incidents

- No recordable incidents occurred this week. The last recordable incident occurred on March 2, 2010 (19 days).

Non-Recordable Incidents

- First Aid – March 17th. A Severson worker's hand was pinched during pipe assembly involving a 90-degree angled pipe. The worker received first aid treatment and an x-ray to evaluate the hand condition. No work restrictions.
- Other – March 19th. An RSI boat operator hit a dredge line while traveling on the river. USCG has recommended that markers be placed at least every 75 ft. on each dredge line in the river.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Lime treatment in the east embayment continued on day and night shifts. Roughly 23,350 cy of ash were treated and moved from the area to storage.
- Another 7,125 cy of ash east of Dike 2 was removed and hauled to storage or to the trains. This is the last of the stored material from east of Dike 2.
- The offsite utilities contractor, Mayse Construction, continued construction of 10" Kingston Utility Board water line and Harriman Utility Board water and gas lines.
- Design specifications on Swan Pond Circle Road underpass foundation were completed and the RFP was issued for design and fabrication.

ASH DREDGING & PROCESSING

- A total of 50,997 cy of ash were removed from the river this week using an assortment of 5 dredges. All dredges are operational.
- The removal of Weir 1 continued through the weekend. The rock was taken to the ballfield for use on roads.
- Work continued dipping from the trenches and using the filter presses.
- Construction of a platform into the lateral expansion area was completed this week. Dipping from the area onto the platform began this week.
- An amphibious trackhoe continued dipping from the ash pond onto the west bank.
- Lime treatment of sluice trench material was reinstated on Friday of this week.
- Work was completed on cutting and grading roads in the ballfield to elevations allowing drainage.

ASH DISPOSITION

- Began utilizing Ash Track 3 for loading operations. Since Wednesday afternoon, all switching operations of rail cars to supply cars to the loading tracks have occurred from the south side of the plant. There are no switches of rail cars across Swan Pond Road except inbound empty and outbound loaded trains.
- Loaded 6 and transported 5 unit trains this week.
- Have loaded 182 and transported 181 unit trains for a total of approximately 1,712,900 tons.
- Heavy rains in Alabama shut down the unloading operations for one day during the week.
- Continued inspection, maintenance, and repair of the rail in the rail yard.
- Continued monitoring moisture content of the ash and placing polymer in rail cars prior to shipping to Alabama.

CENOSPHERE RECOVERY

- Boat crews worked three outreach calls along the Tennessee River.
- One boat crew manned the southern boom in the Emory River.
- The rivers appear to be in good shape with limited debris and cenospheres.
- A crew assisted with the removal and installation of an osprey nest on the Skimmer Wall.
- Large amounts of cenospheres continued to collect in the Ash Pond as a result of dredging activities. Crews worked to keep the weir areas clean.

SKIMMER WALL

- Aquarius Marine, the Skimmer Wall debris removal contractor, is in the process of moving equipment to the site from Cincinnati, Ohio. Arrival is projected for March 31st.
- Skimmer Wall design drawings for the replacement wall were issued by Worley Parsons on March 19th.

DIKE REINFORCEMENT

- Dike C Buttress work continued. Approximately 1,200 feet of buttress has been completed.
- No safety incidents this week. Crews remain involved and proactive with the safety program. As work activities shift crews have been taking time to walk the new site conditions.
- CP has begun using an amphibious excavator to relocate ash to an area where the dredges can more easily remove the material. To assist with the time critical removal, crews will remove ash from an area greater than is required to construct the buttress.
- CP has been working with Severson on relocating dredge pipe that is on Dike C. The crews relocated pipe to areas where the buttress has already been completed. The relocation will ease the construction complexity as the project moves forward.
- Continued to monitor the dikes at Kingston on a daily basis.

ROUTINE MONITORING

Surface Water Sampling

- Routine surface water monitoring at the ten fixed river locations occurred on Monday, March 15th, and Friday, March 18th.
- Surface water analytical results are compared to the Tennessee Drinking Water Standards (TDWS) and the Ambient Water Quality Criteria for Fish and Aquatic Life (F&AL) to establish a reference point for evaluating the potential significance of the data. Although the most impacted section of the Emory River has been closed to public use, the Emory, Clinch, and Tennessee Rivers are classified for use for Recreation and as a source for Domestic Water Supplies. However, closure of the most impacted reach of the Emory River during the ash recovery operation must be considered in these comparisons.
- Noteworthy results are reported below for Fixed River Location samples collected between 01/04/2010 and 02/19/2010. Comparisons to the F&AL are performed for dissolved concentrations only.
 - On the Tennessee River, the detectable arsenic concentrations were well below the TDWS. Selenium was not detected in any samples.
 - On the Clinch River, arsenic was detected in all samples at concentrations well below the TDWS and F&AL. Selenium was detected in 1 of 53 samples below the TDWS and F&AL.
 - On the Emory River, one detected concentration of arsenic exceeded the TDWS but was less than the F&AL. Selenium was detected in 3 of 13, with all concentrations less than the TDWS and F&AL.
- Daily monitoring of dredge plumes continued. TVA and EPA continued the compilation of turbidity measurement data from the mouth of the Emory River to ERM 4.0. The data are being compiled and plotted on Mondays and Wednesdays to determine that turbidity curtain placement is effective to prevent any adverse trends as the dredging

operation continues.

- Plumes in the vicinity of dredging operations contain large amounts of suspended ash that settle out quickly and are not representative of overall water quality in the Emory River. Comparing Plume results to those from Fixed Station Locations provides an indication of the effectiveness of silt curtains and other Best Management Practices (BMPs) employed by the project
- Swan Pond Embayment surface water sampling continues routinely twice per week at two locations along the Swan Pond Embayment drainage ditches. Sampling occurred on Tuesday, March 16th, and Thursday March 18th.

Sediment Sampling

- A vibecore crew collected core samples for cesium characterization at three additional locations in the KIF intake channel.

Air Sampling

- The majority of air monitoring results, including fixed-station and real-time monitoring results continue below ambient air quality criteria.
- TVA's real-time tapered element oscillating microbalance (TEOM) PM2.5 instrument is operating at the Lakeshore Drive (PS07) air monitoring location. Overall, PM2.5 measurements for the past week were well below the action level of 26 micrograms per cubic meter.
- Additional real-time instruments have been ordered.
- EPA is planning to collect co-located samples at two of the TVA air monitoring stations. Logistics are under review by site EPA staff.

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

- Preparations are underway for TVA's spring amphibian sample collection.

Non-Routine Sampling

- Sampling was completed for characterization of used oil drums and drums containing absorbent pads to support disposition of these items.
- Monthly samples were collected from rail cars for TCLP, paint filter testing, and radium-228/radium-226.

FINAL REMEDIATION

- Public comment period continues through April 5th on the EE/CA and Action Memorandum.
- Waiting for comments on the Removal Action Work Plan.
- Beginning preparation on work plans for ash removal from embayment and ash stacking in Dredge Cell.

DREDGE CELL

- The buttress required on the west side of the test embankment was completed this week allowing a restart of stacking later in the week. Ash treated in the east embayment and ash from the relic area were used to fill the test cells.
- Stantec issued the revised design of the Subgrade Working Platform for the Dredge Cell Central Area on March 19th. The design is under review.
- Stantec issued Deep Soil Mixing Program Criteria for a pilot test in the Dredge Cell. It is being reviewed and an RFP is being prepared for work to be performed.

COMMUNICATIONS

Communications

- Posted to Web site: Weekly Report, Weekly Area Resident Update information, and conducted Web site information update.
- Prepared news release on Swan Pond Circle lane closures and submitted to Roane County News.
- Prepared column requesting public comment on the EE/CA for Roane County News.
- Delivered Dredge Report to site and plant employees.
- Updated bulletin boards around the site with new information.
- Surveyed new locations for bulletin boards and safety signs.
- Sent weekly update to members of the public who have signed up to receive it.

- Continued to handle calls from the news media.

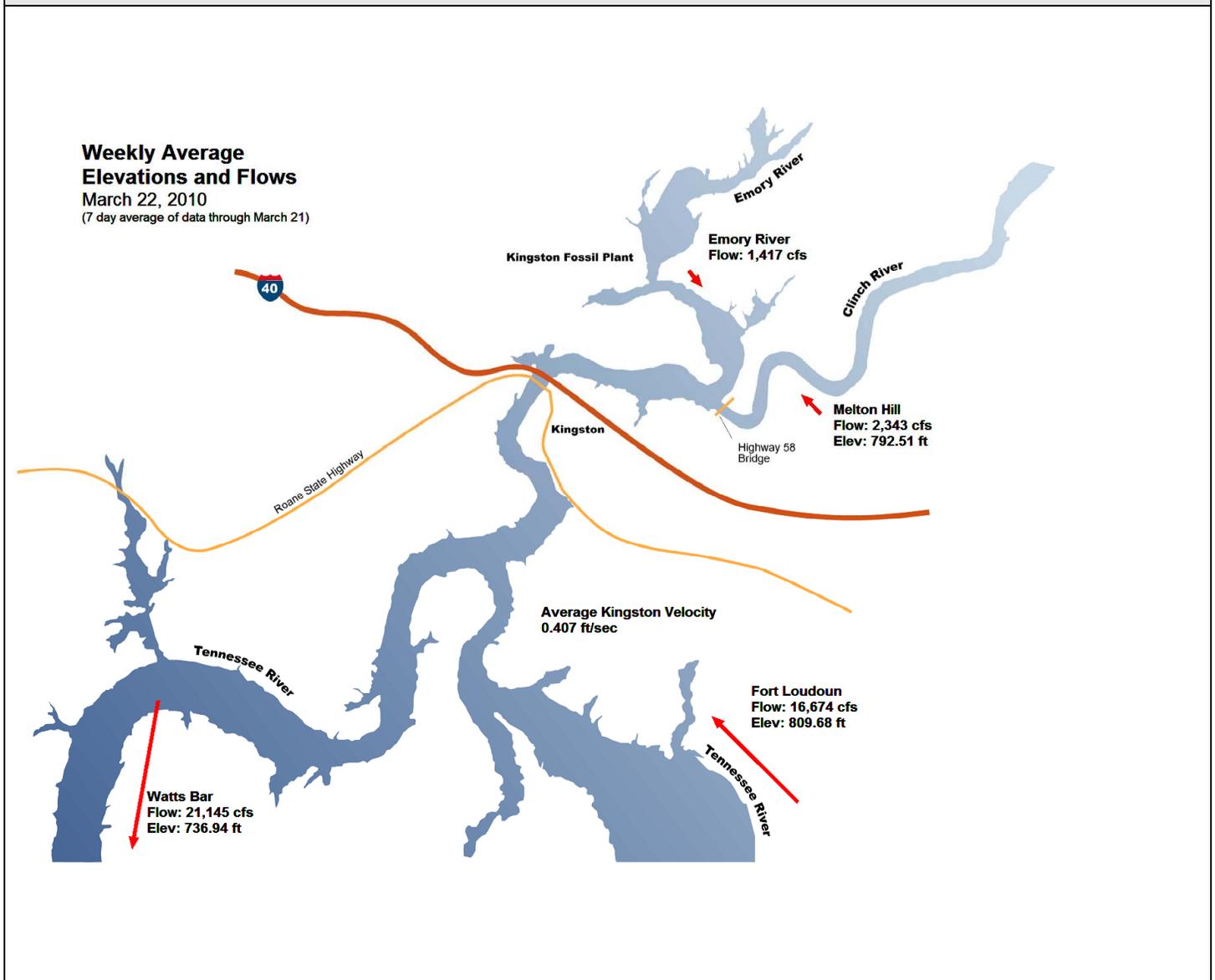
Outreach

- TVA's Kingston Ash Recovery Project General Manager presented EE/CA information to Rockwood Rotary and Roane County Educators.
- Attended and presented information at the Roane County Long Term Recovery Committee.
- TVA's Kingston Ash Recovery Project Environmental Manager gave a project update to the Bradley County, TN Chamber of Commerce.
- Provided various updates on utility installation and site activities to the Community Advisory Group.
- Updated Administrative Record with work plans.
- Worked with Kingston Library to consolidate Administrative Record to a more manageable location within the library.
- Participated in CAG tour and briefing of the Ash Recovery Site.
- Continued to respond to calls and visits from residents.
- Continued to gather comments on various administrative record documents.

Government/Valley Relations

- Sent site update to public officials.
- Set up site briefing for Shelby County District Attorney.

RIVER OPERATIONS



MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
03/22	0730	Environmental Meeting (ICP Conference Room)
03/22	0800	QAPP Training (ICP Conference Room)
03/22	0900	Dike C Buttress Intake Channel (ICP Conference Room)
03/22	1000	Aquatic Resources Studies (Team Room)
03/22	1200	MACTEC Safety Meeting (Trailer 1 Meeting Room)
03/22	1300	Environmental Staff Meeting (ICP Conference Room)
03/22	1300	TLSA (Team Room)
03/22	1300	Stantec Meeting (Trailer 1 Meeting Room)
03/22	1400	Schedule Updates (ICP Conference Room)
03/22	1400	Safety Value (Team Room)
03/22	1500	Kick Off Meeting Removal Action (Team Room)
03/23	0800	Dredge Cell Test Embankment (ICP Conference Room)
03/23	0930	BCP Meeting (ICP Conference Room)
03/23	0930	Communications (Team Room)
03/23	1000	TVA Communications (Team Room)
03/23	1030	KIF Dredge Cell Closure Issue Discussion (ICP Conference Room)
03/23	1300	Project Head Count Meeting (Team Room)
03/23	1330	Dredge Team Meeting (Old ICP Conference Room)
03/23	1330	Programs and Activities (Trailer 1 Meeting Room)
03/23	1430	Jacobs OPR (Old ICP Conference Room)
03/24	0800	Time Critical Weekly Meeting (ICP Conference Room)
03/24	0900	Data Management Meeting (ICP Conference Room)
03/24	0930	Kingston Cost Tracking (Team Room)
03/24	1100	MRC Environmental & Safety Meeting (ICP Conference Room)
03/24	1300	Status Project (ICP Conference Room)
03/24	1330	Test America Weekly Call (Conference Call)
03/24	1400	Q3 Re-Baseline Estimates & Schedule Meeting (ICP Conference Room)
03/25	0730	Environmental Meeting (ICP Conference Room)
03/25	0900	LTD Project Controls (Team Room)
03/25	1000	RECON Presentation (ICP Conference Room)
03/25	1000	Pace Telephone (Conference Call)
03/25	1130	HSE Staff Meeting (ICP Conference Room)
03/25	1400	SOP Meeting (Team Room)
03/26	0900	Jacobs Senior Managers Meeting (ICP Conference Room)
03/26	1100	Unloading Ash in Uniontown (Trailer 1 Meeting Room)
Daily	0730	Site Safety Orientation (Old Team Room)
Daily	0900	MACTEC Daily Reconciliation (Trailer 1 Meeting Room)
Daily	1600	Planning Meeting (ICP Conference Room)
Daily	1630	Ash Disposal Daily Recap (Team Room)

Kingston Recovery Project		Date:	March 15-21, 2010		Field Report
Safety*			Weekly Total	Cumulative Total	
Near Misses			0	38	
First Aid Incidents			1	31	
Recordable Incidents			0	9	
Lost Time Incidents			0	12	
Cenosphere/Debris Removal			Weekly Total	Cumulative Total	
Outreach	Light Debris Removal – Land (bags)		0	18,867	
Divisions A, B,C,D Cleanup	Division Shoreline Cleanup (bags)		1,242	97,943	
Total	Tons of Light Debris		0	959.57	
Cenosphere Slurry	Gallons		168,000	12,468,000	
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time	--	--	185,021	
TVA	Air – Fixed	1,838	--	2,560	
TVA	Surface/Utility Water	3,264	27,698	135,541	
TVA	Ground Water (spring and well)	78	879	3,377	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	155	292	2,840	
TVA	Biota	845	1,863	21,262	
*Week ending 03/19/2010					
Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards thru March 21, 2010 (see Note)			50,997	2,227,423
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume			30,475	661,729
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume			0	73,000**
Ash Disposal	Estimated Tons			70,200	1,712,900

NOTE: Total dredged from the river has been adjusted to include ongoing survey adjustments and all of TransAsh and TVA reported hydraulic and mechanical dredging to date.

Ash Loading to Trains - Weekly as of March 21st

