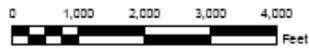


KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT June 7-13, 2010

Aerial Image of Kingston Ash Slide (03/19/2010)



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Date of map imagery: 03/19/2010

Tennessee Valley Authority
Geographic Information & Engineering

Prepared by:
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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

June 7-13, 2010

HIGHLIGHTS

- Cumulatively, just over 3,446,990 cubic yards of ash have been removed from the river and east of Dike 2.
- To date, 259 unit trains have been loaded and approximately 2,480,400 tons of ash has been transported to Uniontown, Alabama.

SAFETY

Program Summary

- 12 site specific HSE orientations were conducted for the week – 1,575 to date. 38 Site Safety Orientation refresher sessions were conducted – 38 to date.
- 4 Safety Observation Reports submitted for the week: 1,162 to date; 1,114 have been closed.
- The last recordable injury was an insect bite to a SWS employee on May 13, 2010.

Incidents:

- June 8, 2010 – A MACTEC employee was taken to First Aid with a minor scrape on his arm.
- June 9, 2010 – A Wilco employee slipped on the tracks of his vehicle. As a precaution he was sent for x-rays to be checked out. No medication was given.
- June 9, 2010 - A Severson employee working in the decon area was taken to first aid with a bee sting.
- June 10, 2010 – A CP mechanic strained his shoulder while checking the oil in a vehicle. He was given Advil at First Aid and returned to work.
- June 10, 2010 – Approximately one gallon of hydraulic fluid leaked from a mixer at the lime stabilization area. This is not an REE. The fluid was cleaned up immediately.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Ash generated from time-critical activities was removed from the west storage area to the trains.
- Mayes Construction continued installation of the offsite utilities with 78% complete.

ASH DREDGING & PROCESSING

- A total of 31,144 cy of ash were removed from the river this week by Severson. Dredging continues east of Dike 2 with two dredges. The north-south ash berm between the north point and the rookery has been removed.
- Demobilization of the filter press area continues.
- Work continued dipping from the rim ditch and sluice trench and dredging from the ash pond. Lime treatment at the sluice trench continued and treated ash was hauled directly to the trains for disposal.
- Vibecoring in the area east of Dike 2, off the north dock, and along the berm and rookery occurred this week to confirm final areas of dredging.
- Efforts continued in the ballfield to move ash to the tracks and to dry the windrows. Several rains this week were handled successfully with just minor maintenance to the roads. Much of the ballfield has been emptied.

ASH DISPOSITION

- Loaded and transported 7 unit trains this week.
- Have loaded and transported 259 unit trains for a total of approximately 2,480,400 tons.
- Completed the repair of the major maintenance issues of the rail in the rail yard. The weekly inspections will continue and recommendations evaluated and necessary work will be scheduled and completed.
- Continued monitoring moisture content of the ash and placing polymer in rail cars prior to shipping to Alabama.

CENOSPHERE RECOVERY

- River crews worked in the Tennessee River to address four known problem areas.
- Crews began removing additional docks and piers in the Emory River.

- On site crews worked on removing cenospheres from intake channel and the ponds.
- Other onsite ponds and discharge ponds remain in good shape.

SKIMMER WALL

- Aquarius Marine LLC, Skimmer Wall debris removal contractor, completed the lift and decon of the second of three caissons on Monday, June 7th.
- Aquarius is in the process of mechanically dredging ash off the third caisson and has started rigging for removal. Removal is currently scheduled for June 17th.

DIKE REINFORCEMENT

- Construction on Segment C continues. The designed buttress slope for this segment is 6:1 and pushes the construction further out into the water. A plan was developed to use a conveyor system to place material out in the water. However, with the potential work stoppage, the conveyor system was placed on hold. The buttress can still be constructed with current equipment, but progress is slower.
- Material testing of the #2 was placed on hold until a decision can be made on the potential work stoppage.
- Buttress construction is about 37% complete.
- Continued to review Segments A & B drawings.
- Continued to monitor the dikes at Kingston on a daily basis.

ROUTINE MONITORING

Surface Water Sampling

- Routine surface water samples were collected at 10 fixed locations on the Emory, Clinch, and Tennessee Rivers on Monday, June 7th, and Friday, June 11th. Due to lightning in the area, sampling was curtailed on Friday afternoon and the Clinch river fixed locations (CRM 4.0 and CRM 5.5) were not sampled.
- 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.
- Noteworthy results are reported below for Fixed River Location samples collected between 04/02/2010 and 05/17/2010. Comparisons to the F&AL are performed for dissolved concentrations only.
 - On the Tennessee River, arsenic was detected in 8 of 17 samples and selenium was detected in one sample. Arsenic and selenium concentrations were both well below the TDWS and F&AL criteria. Thallium was not detected in any Tennessee River sample.
 - On the Clinch River, arsenic was detected in 59 of 62 samples and selenium was detected in 5 of 62 samples at concentrations well below the TDWS and F&AL criteria. Thallium was detected in 1 of 62 samples. The lone thallium result was above the Tennessee Water Quality Criteria (TWQC).
 - On the Emory River, arsenic was detected in 57 of 77 samples and selenium was detected in 5 of 77 samples. All results were below the TDWS and F&AL criteria. Selenium was detected in five samples at concentrations less than the TDWS and F&AL. Thallium was detected in 4 of 77 samples. All thallium results exceeded the TWQC.
- 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 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 continued routinely twice per week at two locations along the Swan Pond Embayment drainage ditches.

Sediment Sampling

- Vibecore sampling in support of dredging operations continued in the mouth of the embayment.

Air Sampling

- The majority of air monitoring results, including fixed-station and real-time monitoring results are below ambient air quality criteria. Where instantaneous PM10 measurements above 150 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) were recorded, they were associated with wood fires or around railroad and utility work.
- TVA currently operates six real-time PM2.5 instruments: a tapered element oscillating microbalance (TEOM) PM2.5 instrument at Lakeshore Drive (PS07); and PM2.5 Beta Attenuation Monitors (BAM) at the northern-most reach of proposed work in the North Embayment (PS13); PS05; PS07; PS08 and PS09. When the revised Air Monitoring Plan is approved, the TEOM will be converted to PM10 and relocated to PS09. PM2.5 average measurements at all

stations for the past week were below the action level of 26 ug/m³ averaged over a 24-hour period.

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

- Monitoring of activity at bird boxes continues, including sampling eggs and hatchlings. A number of hatchlings were shipped to a laboratory for analysis.
- Turtle trapping and sampling occurred last week and will be continuing over the next several weeks.

Non-Routine Sampling

- None to report.

FINAL REMEDIATION

- Submitted to EPA and TDEC the final Leaching Test Plan; and received EPA approval of that plan.
- Submitted to EPA the updated Surface Water Monitoring Plan and Site Dust Control and Air Monitoring Plan.

DREDGE CELL

- Resolved Jacobs' comments with Stantec on the 60% design for the Central Dredge Cell Ash Stacking and on the 90% design for the Central Dredge Cell Working Platform.
- Completed a kickoff for the design of the North Dredge Cell (Dike C) Perimeter Containment.
- Continued ash recontouring in the Central Dredge Cell in preparation for construction of the working platform.

EMBAYMENT ASH PROCESS

- Ash consolidation continued in the north embayment by Civil Projects.
- Diversion road and haul road construction continued by Civil Projects with paving of the diversion road scheduled for June 16th and 17th.
- Swan Pond Circle Road underpass bridge construction continued with offsite fabrication of pre-stressed girders and design of reinforced earth panels being completed.

COMMUNICATIONS

Communications

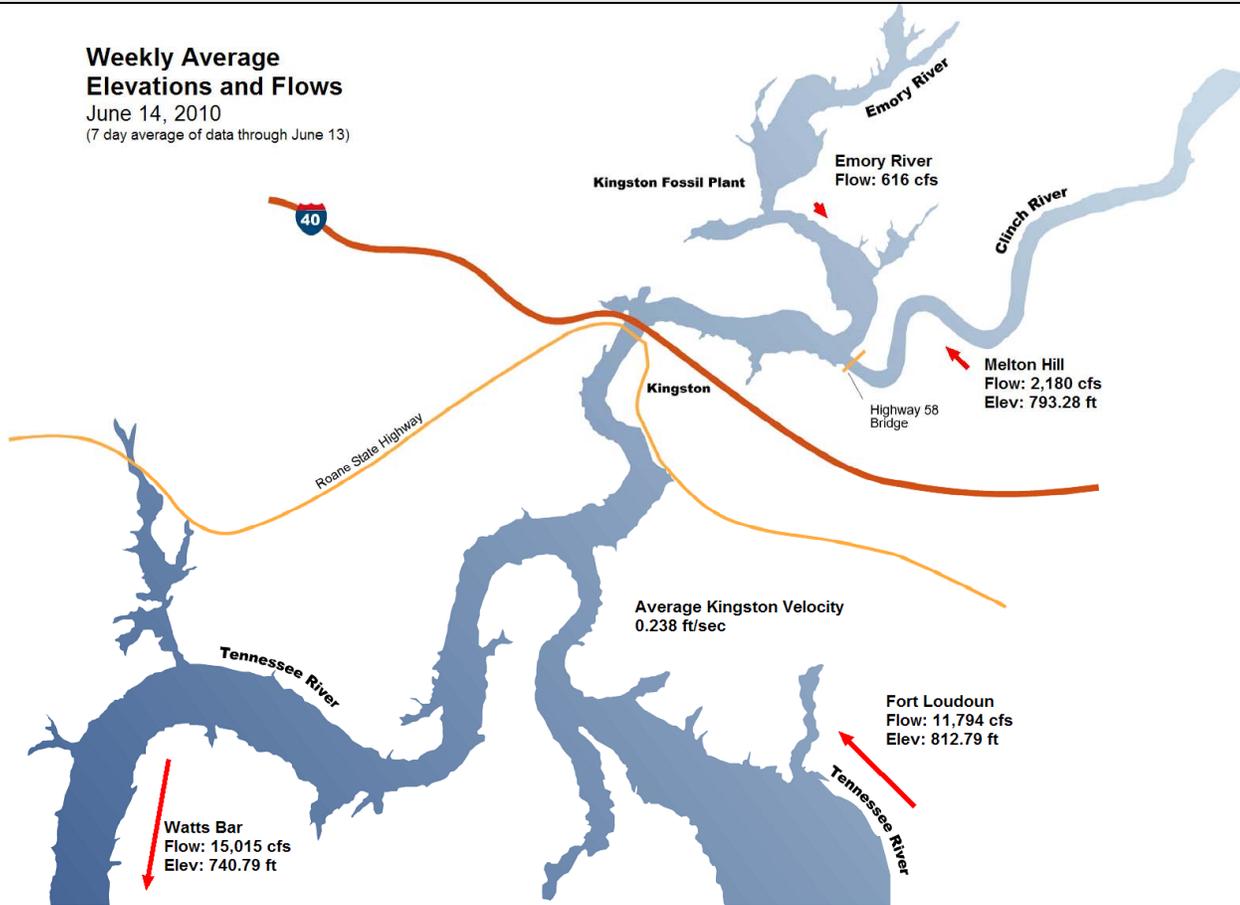
- Posted to Website: Weekly Report and Weekly Area Resident Update, CAG Public Meeting information, presentations and video of May 20 Public Meeting, and no-wake zone change update.
- Continued to work on addendum to the Community Involvement Plan with information about the Engineering Evaluation/Cost Analysis.
- Sent weekly update to members of the public who have signed up to receive it.
- Continued to handle calls from the news media.
- Worked on special edition Dredge Report to commemorate the end of time critical work and reopening of Emory River.
- Submitted Kingston Ash Recovery Project update column to the Roane County News.
- Submitted time-critical and non time-critical work plan ads for public comment to Roane County News and The Shopper for publication.

Outreach

- Provided updates on site activities to the Community Advisory Group.
- Held Availability Session at the Kingston Outreach Center.
- Attended CAG Public Meeting at the Roane County Courthouse.
- Updated Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.
- Updated message boards along Swan Pond Road announcing Availability Session.
- Worked on Kingston Ash Recovery Project Site update column for Roane County News.
- Updated site bulletin boards with safety and site information.

RIVER OPERATIONS

Weekly Average Elevations and Flows
June 14, 2010
(7 day average of data through June 13)



MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
06/14	0730	Dredge Meeting (ICP Conference Room)
06/14	0800	Environmental Group Meeting (ICP Conference Room)
06/14	1000	Aquatic Resources Studies (Team Room)
06/14	1000	Rail Yard Meeting (Trailer 1 Meeting Room)
06/14	1100	Closing Swan Pond Road (ICP Conference Room)
06/14	1200	MACTEC Safety Meeting (Trailer 1 Meeting Room)
06/14	1300	Environmental Staff Meeting (Team Room)
06/14	1400	Schedule Updates (Old ICP Conference Room)
06/14	1500	Cell Phone Use for Trailer Complex (Old ICP Conference Room)
06/15	0930	BCP Meeting (ICP Conference Room)
06/15	0930	Communications (Team Room)
06/15	1000	TVA Communications (Team Room)
06/15	1100	Bridge Construction Supplier Review (ICP Conference Room)
06/15	1100	Plant Ash Meeting (Team Room)
06/15	1400	Bridge Construction Supplier Review (Team Room)
06/15	1330	Dredge Team Meeting (ICP Conference Room)
06/16	0900	Non-Time-Critical Weekly Meeting (ICP Conference Room)
06/16	1000	Jacobs Cost Containment Report (Team Room)
06/16	1100	MRC Environmental & Safety Meeting (ICP Conference Room)
06/16	1330	Test America Weekly Call (Conference Call)
06/16	1430	Data Management Meeting (ICP Conference Room)
06/16	1500	Environmental Update (Team Room)
06/17	1000	Pace Telephone (Conference Call)
06/17	1130	HSE Staff Meeting (ICP Conference Room)
06/17	1300	CSMRT Meeting (Old ICP Conference Room)
06/17	1400	SOP Meeting (Team Room)
Daily	0730	TVA Monitoring Wells Meeting (Trailer 1 Meeting Room)
Daily	0730	Site Safety Orientation (Old ICP Conference Room)
Daily	1100	MACTEC Daily Reconciliation Meeting (Trailer 1 Meeting Room)
Daily	1500	Continuation of Dredge Progress & Contingency Plan (ICP Conference Room)
Mon-Thur	1600	Planning Meeting (ICP Conference Room)
Daily	1630	Ash Disposal Daily Recap (Team Room)

Kingston Recovery Project		Date: June 7-13, 2010		Field Report	
Safety				Weekly Total	Cumulative Total
Near Misses				2	50
First Aid Incidents				3	37
Recordable Incidents				0	11
Recordable 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)		675	106,587
Total		Tons of Light Debris		0	959.57
Cenosphere Slurry		Gallons		60,000	14,070,000
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time (as of 6/4/10)	--	--	236,895	
TVA	Air – Fixed (as of 6/4/10)	2,258	--	3,281	
TVA	Surface/Utility Water	3,932	34,421	166,245	
TVA	Ground Water (spring and well)	95	1,099	4,409	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	266	448	3,325	
TVA	Biota	1,049	2,469	27,117	
*Week ending June 11, 2010					
Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards (including mechanical dredging)			31,144	2,688,143
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume			0	758,849
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume			0	73,000**
Ash Disposal	Estimated Tons			72,700	2,480,400

NOTE: Total dredged from the river has been adjusted to include ongoing survey adjustments and all of Severson (current dredging contractor), TransAsh (prior dredging contractor), mechanical dredged from Severson and Aquarius, and TVA reported hydraulic and mechanical dredging to date.

Ash Loading to Trains - Weekly as of June 14th

