

KINGSTON ASH RECOVERY PROJECT

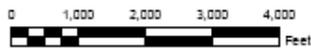
WEEKLY REPORT

April 19 - 25, 2010

Aerial Image of Kingston Ash Slide (02/27/2010)



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Date of map imagery: 02/27/2010

Tennessee Valley Authority
Geographic Information & Engineering

Prepared by:
Mary McDermott

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WEEKLY REPORT

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HIGHLIGHTS

- Cumulatively, just over 3,149,200 cubic yards of ash have been removed from the river and east of Dike 2.
- The project achieved another milestone this week – over two million tons of fly ash have been loaded and transported to Alabama. To date, 212 unit trains have been loaded and just over two million tons of ash has been transported to Uniontown, Alabama.

SAFETY

Program Summary

- 9 site specific HSE orientations were conducted for the week – 1,486 to date.
- 44 Safety Observation Reports submitted for the week: 1,064 to date; 1,001 have been closed.

Near Miss

- April 24, 2010 – While working in the north embayment, a CP subcontractor amphibious excavator started taking on water. The operator was picked up by boat and taken to shore. There were no injuries. The excavator worked its way out of the embayment the following day.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Samples were taken in the east embayment to confirm completion of this area.
- Small areas of ash next to Bob Summers Road were removed.
- The offsite utilities contractor, Mayse Construction, continued excavation, borings, and installation of the 10" Kingston Utility Board water line, Harriman Utility Board water and gas lines, and AT&T conduit along Swan Pond Road, Swan Pond Circle, Hassler Mill Road, and Highway 70. Utilities restoration is 52% complete; enhancements are 45% complete; and the project is 60% complete.

ASH DREDGING & PROCESSING

- A total of 48,325 cy of ash was removed from the river this week by Severson.
- Mechanical dredging north of the site continued this week. Vibecore samples are being taken before the dredges to continue to help define where dredging should occur. Ash is being taken to the lateral expansion area for storage.
- Work continued dipping from the rim ditch and sluice trench.
- Support was provided to Aquarius to offload their barges from the skimmer wall removal project.
- Efforts continued in the ballfield to move ash to the tracks and to dry the windrows.

ASH DISPOSITION

- Loaded and transported 6 unit trains this week.
- Have loaded and transported 212 unit trains for a total of approximately 2,005,049 tons.
- Heavy rains and high winds both in Kingston and at the landfill in Uniontown impacted operations Saturday and in Kingston again on Sunday.
- Continued inspection, maintenance, and repair of the rail in the rail yard. The repair work includes replacing rail and ties, installing rail anchors, checking and re-gauging rail, and identifying additional ties for replacement.
- Continued monitoring moisture content of the ash and placing polymer in rail cars prior to shipping to Alabama.

CENOSPHERE RECOVERY

- Boat crews removed boom from the Tennessee and Clinch Rivers in anticipation of the fishing tournament to be held April 21st to April 24th.
- Crews worked in the Emory River along the eastern shoreline cleaning cenospheres and debris.
- One boat crew manned the southern boom in the Emory River.
- Kept crews out of the Clinch and Tennessee as much as possible during the fishing tournament. Crews inspected the

parks areas from land.

- 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 LLC, the Skimmer Wall debris removal contractor, continued exploratory dredging along the Skimmer Wall area. Aquarius has located all three caissons and is in the process of cleaning around them. Attempts are planned for trying to raise a caisson next week.
- The Skimmer Wall Reconstruction bidders provided questions and answers were provided for bids to be submitted April 30, 2010.

DIKE REINFORCEMENT

- Dike C Buttress work continued. Focus for the week was removal of ash from south of the Rookery. About 95% of the ash has been removed. Waiting on the dredge to return and clean a small area.
- Buttress construction is about 23% complete. Crews have begun placing filter in the water. Progress has been slow as crews learn how to best place materials. It is anticipated that buttress construction can increase to about 50 feet per day once the new system is established.
- TVA sent Segment C drawings to the EPA for review and comment.
- Stantec provided Segment Design drawings for initial review and comment. Stantec is recommending not placing buttress in the area of the bridge and diffuser pipes in the intake channel.
- 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, April 19th, and Friday, April 23rd. The automated sampler at Emory River Mile (ERM) 0.5 was activated on April 24th around 2100 hours, triggered by a local rainfall exceeding 1.0".
- 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 03/10/2010 and 04/09/2010. Comparisons to the F&AL are performed for dissolved concentrations only.
 - On the Tennessee River, the arsenic was detected in 2 of 13 samples at concentrations well below the TDWS and F&AL. Selenium was not detected in any samples.
 - On the Clinch River, arsenic was detected in 49 of 50 samples at concentrations well below the TDWS and F&AL. Thallium was detected in 2 of 50 samples at concentrations above the Tennessee Water Quality Criteria (TWQC). Selenium was not detected in any samples.
 - On the Emory River, arsenic was detected in 39 of 61 samples with all concentrations less than the TDWS and the F&AL. Lead was detected in 40 of 62 samples with one result exceeding the TDWS. Selenium was detected in two samples at concentrations less than the TDWS and F&AL. Thallium was detected in 9 of 62 samples, with all results exceeding the TWQC.
- 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. Additional samples were collected on April 25th, triggered by local rainfall exceeding 0.5".

Sediment Sampling

- Vibecore sampling continues in support of dredging operations and Dike C reinforcement.

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 (ug/m³) were recorded, they were associated with wood fires or around railroad and utility work.
- 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 ug/m³.
- The first real-time PM2.5 Beta Attenuation Monitor (BAM) was installed at the northern-most reach of proposed work in the North Embayment (PS13). Additional BAM instruments will be installed over the next few weeks at several other air monitoring stations.
- 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

- Osprey, heron, and Canada goose egg collection continues.
- Bird box deployment was completed.

Non-Routine Sampling

- Several drums with used oil were re-sampled due to initial spurious results.

FINAL REMEDIATION

- A draft Comment Response Summary was transmitted to EPA which indicated TVA's responses to TDEC and EPA on the draft Sampling and Analysis Plan for the River System Investigation.

DREDGE CELL

- TVA Supply Chain and evaluation team reviewed the Deep Soil Mixing Pilot Project bids, with award planned for next week.

COMMUNICATIONS

Communications

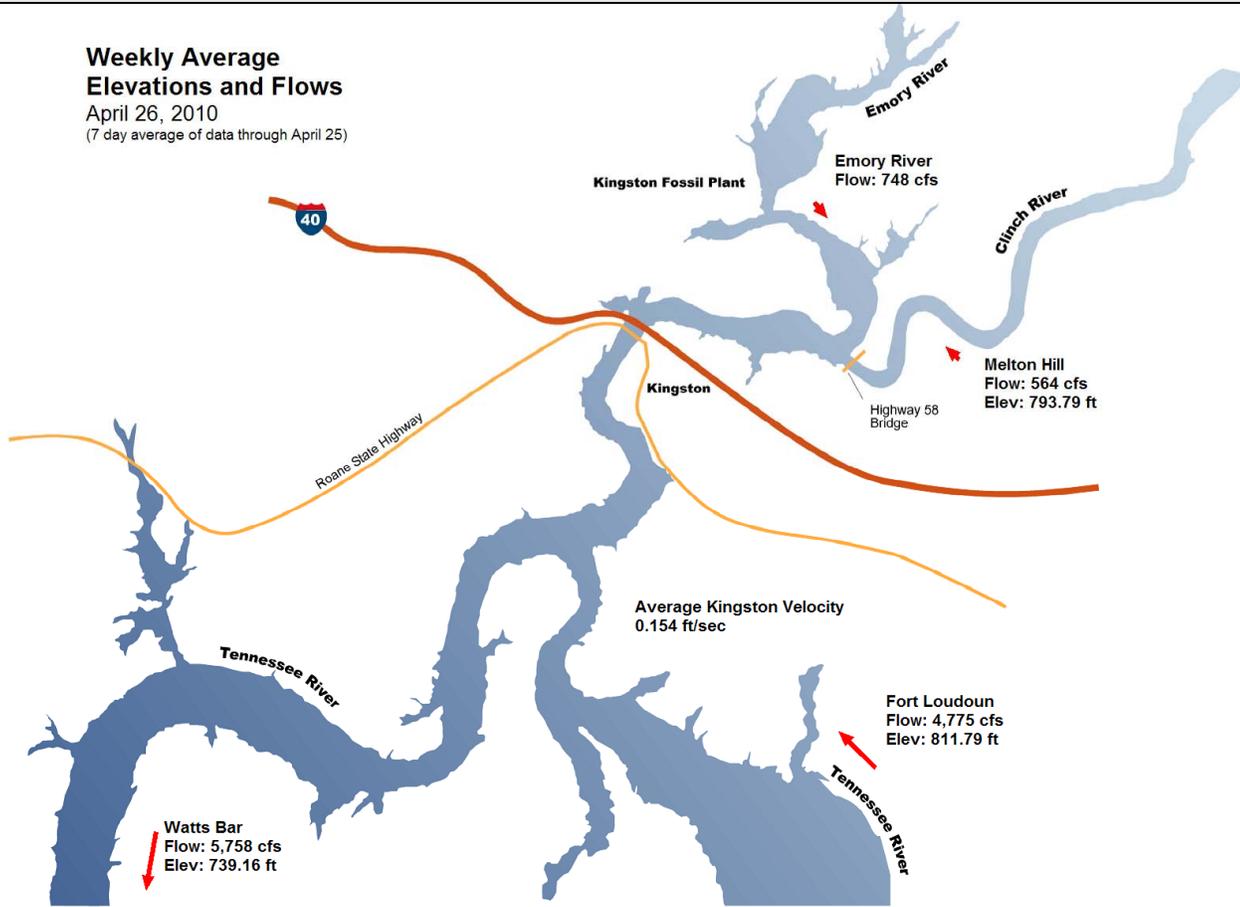
- Posted to Web site: Weekly Report and Weekly Area Resident Update information.
- Prepared draft ad for public meeting.
- Continued to work on addendum to the Community Involvement Plan with information about the Engineering Evaluation/Cost Analysis.
- Sent weekly update to members of the public who have signed up to receive it.
- Continued to handle calls from the news media.
- Finalized articles for upcoming Dredge Report.

Outreach

- Provided updates on site activities to the Community Advisory Group.
- Updated Administrative Record with work plans.
- Continued to respond to calls and visits from residents.
- Updated message boards along Swan Pond Road as appropriate.
- Worked on Kingston Ash Recovery Project Site update column for Roane County News.

RIVER OPERATIONS

**Weekly Average
Elevations and Flows**
April 26, 2010
(7 day average of data through April 25)



MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
04/26	0800	Environmental Group Meeting (ICP Conference Room)
04/26	0900	Dike C Buttress Intake Channel (ICP Conference Room)
04/26	0930	5 Mile Curve on Loop Track Meeting (Trailer 1 Meeting Room)
04/26	1000	Aquatic Resources Studies (Team Room)
04/26	1000	10" Dredge Meeting (Team Room)
04/26	1200	MACTEC Safety Meeting (Trailer 1 Meeting Room)
04/26	1300	Environmental Staff Meeting (ICP Conference Room)
04/26	1300	Readiness Review Central Contour & Bypass Road (Team Room)
04/26	1400	Schedule Updates (ICP Conference Room)
04/27	0800	JMJ Associates (Trailer #1 Meeting Room)
04/27	0800	SPCC/Waste Management Training (ICP Conference Room)
04/27	0930	Communications (Team Room)
04/27	1000	TVA Communications (Team Room)
04/27	1100	Jacobs Monthly All Hands Meeting (ICP Conference Room)
04/27	1330	Dredge Team Meeting (ICP Conference Room)
04/28	0800	JMJ Associates (Trailer 1 Meeting Room)
04/28	0900	Non-Time-Critical Weekly Meeting (ICP Conference Room)
04/28	0900	Business Services Library (Team Room)
04/28	1100	MRC Environmental & Safety Meeting (ICP Conference Room)
04/28	1330	Test America Weekly Call (Conference Call)
04/28	1400	Construction Sequence (Old ICP Conference Room)
04/28	1430	Data Management Meeting (ICP Conference Room)
04/29	0800	JMJ Associates (Trailer #1 Meeting Room)
04/29	0900	Stantec Re-Baseline Estimates (ICP Conference Room)
04/29	1000	Pace Telephone (Conference Call)
04/29	1130	HSE Staff Meeting (ICP Conference Room)
04/29	1300	SPCC/Waste Management Training (ICP Conference Room)
04/29	1400	SOP Meeting (Team Room)
04/29	1530	Aquarius Progress Meeting (Team Room)
04/30	0900	Jacobs Senior Managers Meeting (ICP Conference Room)
Daily	0730	TVA Monitoring Wells Meeting (Trailer 1 Meeting Room)
Daily	0730	Site Safety Orientation (Old ICP Conference Room)
Mon-Thur	1600	Planning Meeting (ICP Conference Room)
Daily	1630	Ash Disposal Daily Recap (Team Room)

Kingston Recovery Project		Date: April 19-25, 2010		Field Report	
Safety				Weekly Total	Cumulative Total
Near Misses				1	43
First Aid Incidents				0	32
Recordable Incidents				0	10
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)		390	101,950
Total		Tons of Light Debris		0	959.57
Cenosphere Slurry		Gallons		144,000	13,458,000
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time	--	--	207,791	
TVA	Air – Fixed	2,023	--	2,819	
TVA	Surface/Utility Water	3,606	31,248	151,590	
TVA	Ground Water (spring and well)	85	969	3,799	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	207	371	2,973	
TVA	Biota	958	2,164	24,266	
*Week ending 04/16/2010					
Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards (see Note)			50,310	2,390,360
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume			8200	758,849
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume			0	73,000**
Ash Disposal	Estimated Tons			73,119	2,005,049

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 April 26th

