

KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

June 14-20, 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

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WEEKLY REPORT

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HIGHLIGHTS

- Cumulatively, just over 3,484,360 cubic yards of ash have been removed from the river and east of Dike 2.
- To date, 266 unit trains have been loaded and approximately 2,548,900 tons of ash has been transported to Uniontown, Alabama.

SAFETY

Program Summary

- Eleven (11) site specific HSE orientations were conducted for the week – 1,586 to date. Thirty-eight Site Safety Orientation refresher sessions have been conducted to date.
- Five (5) Safety Observation Reports submitted for the week: 1,167 to date; 1,117 have been closed.
- Effective immediately, a mobile water station vehicle will travel periodically throughout the Exclusion Zone and will provide cold water and a short break area for employees who need relief from the heat.
- The last recordable injury was an insect bite to a SWS employee on May 13, 2010.

Incidents:

- June 16, 2010 – A worker was stung by a bee. She went to First Aid as a precaution and then reported back to work. An exterminator was called and the area was sprayed.
- June 16, 2010 – Prior to beginning work, a MACTEC worker had a low blood sugar issue and was taken to First Aid. It was noted that the worker had not taken her medication over the last few days. This was a non-work related issue.
- June 17, 2010 – Due to the heat, a MACTEC worker became a bit light-headed. He was taken to First Aid and rested for a while and then returned to work.
- June 18, 2010 – A REE occurred when less than three (3) gallons of biodegradable hydraulic fluid was released from Dredge Shirley. This was caused when a hydraulic line broke while cutting hard rock. The fluid was immediately cleaned up and the dredge was back in operation five hours later.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Mayes Construction continued installation of the offsite utilities with 79% complete.
- Removal of ash from the north point and Bob Summer's Road began.

ASH DREDGING & PROCESSING

- A total of 42,134 cy of ash were removed from the river this week by Severson. Dredging continued east of Dike 2 with two dredges. One of the dredges moved into the river to complete the pass adjacent to the old ash berm and the rookery.
- Demobilization of the filter press area continues.
- Work continued dipping from the rim ditch and sluice trench and dredging from the ash pond. The rim ditch is being allowed to fill to support eventual pulling of the sheet pile wall. Lime treatment at the sluice trench continued and treated ash was hauled directly to the trains for disposal.
- Efforts continued in the ballfield to move ash to the tracks and to dry the windrows.

ASH DISPOSITION

- Loaded and transported 7 unit trains again this week.
- Have loaded and transported 266 unit trains for a total of approximately 2,548,900 tons.
- The weekly inspections of the rail in the yard will continue and the recommendations evaluated and necessary work will be scheduled for completion.
- Continued monitoring moisture content of the ash and placing polymer in rail cars prior to shipping to Alabama.
- Working with the plant to minimize the impact of the delivery of coal trains and the departure of ash trains.

CENOSPHERE RECOVERY

- Completed cenosphere recovery from locations in the Tennessee River.
- Completed removing additional docks and piers from 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, the Skimmer Wall Debris Removal contractor, completed 90% of the rigging on the third and final caisson. Removal is scheduled for Tuesday, June 22nd. Once the removal is completed, Aquarius will then start removal of the concrete beams from the bottom of the Intake Channel.

DIKE REINFORCEMENT

- Construction on Segment C was suspended until November 2010.
- Approximately 2310 feet of buttress or 40.5% of Phase I have been completed.
- The gap created by leaving the dredge lines in place has been filled. The dredge lines were removed.
- Stantec will continue to complete design efforts for Segments A & B.
- Jacobs will continue 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 14th, and Friday, June 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.
- Noteworthy results are reported below for Fixed River Location samples collected between 04/02/2010 and 05/28/2010. Comparisons to the F&AL are performed for dissolved concentrations only.
 - On the Tennessee River, arsenic was detected in 12 of 22 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. Dissolved copper was detected in a sample collected on May 21, 2010 at a concentration (0.0232 mg/L) exceeding the F&AL (0.011 mg/L).
 - On the Clinch River, arsenic was detected in 66 of 74 samples at concentrations well below the TDWS and F&AL. Selenium was detected in 6 of 74 samples. Thallium was detected in 1 of 74 samples. All thallium detections exceed the TWQC (0.00024 mg/L).
 - On the Emory River, Arsenic was detected in 65 of 92 samples and selenium was detected in 12 of 92 samples. All concentrations were less than the TDWS and F&AL. Thallium was detected in five samples. All thallium detections exceed the TWQC (0.00024 mg/L). Dissolved copper was detected in 51 samples, one concentration collected at ERM 12.2 exceeded the F&AL. Lead was detected in 56 samples, one concentration (0.00569 mg/L) collected at ERM 2.1 exceeded the TDWS (0.005 mg/L).
- 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.

Sediment Sampling

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

Air Sampling

- Air monitoring results, including fixed-station and real-time monitoring results are below ambient air quality criteria. 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.
- Turtle trapping and sampling occurred last week and will be continuing over the next several weeks.

Non-Routine Sampling

- Monthly railcar sampling was conducted on June 17th.

FINAL REMEDIATION

- The Public Comment Period on the Embayment/Dredge Cell Action Memorandum closed on June 18th; no request for extension of that public comment period was received.

DREDGE CELL

- Received EPA/TDEC review comments on the 90% design for the Central Dredge Cell Working Platform.
- Continued ash recontouring in the Central Dredge Cell in preparation for construction of the working platform.

EMBAYMENT ASH PROCESS

- Civil Projects continued with the ash consolidation continued in the north embayment.
- Diversion road construction and interim paving was completed. The public started using the road on June 17th.
- Swan Pond Circle Road bridge underpass erection contract was awarded to Midstate Construction, Livingston, Tennessee.

COMMUNICATIONS

Communications

- Posted to Website: Weekly Report, Weekly Area Resident Update, and comments regarding order from TDEC.
- Continued to edit addendum to the Community Involvement Plan with information about the Engineering Evaluation/Cost Analysis and Action Memorandum.
- Sent weekly update to members of the public who have signed up to receive it.
- Continued to handle calls from the news media.
- Picked up and delivered special edition Dredge Report to commemorate the end of time critical work and reopening of Emory River.
- Worked on new edition of Dredge Report for site and plant employees.

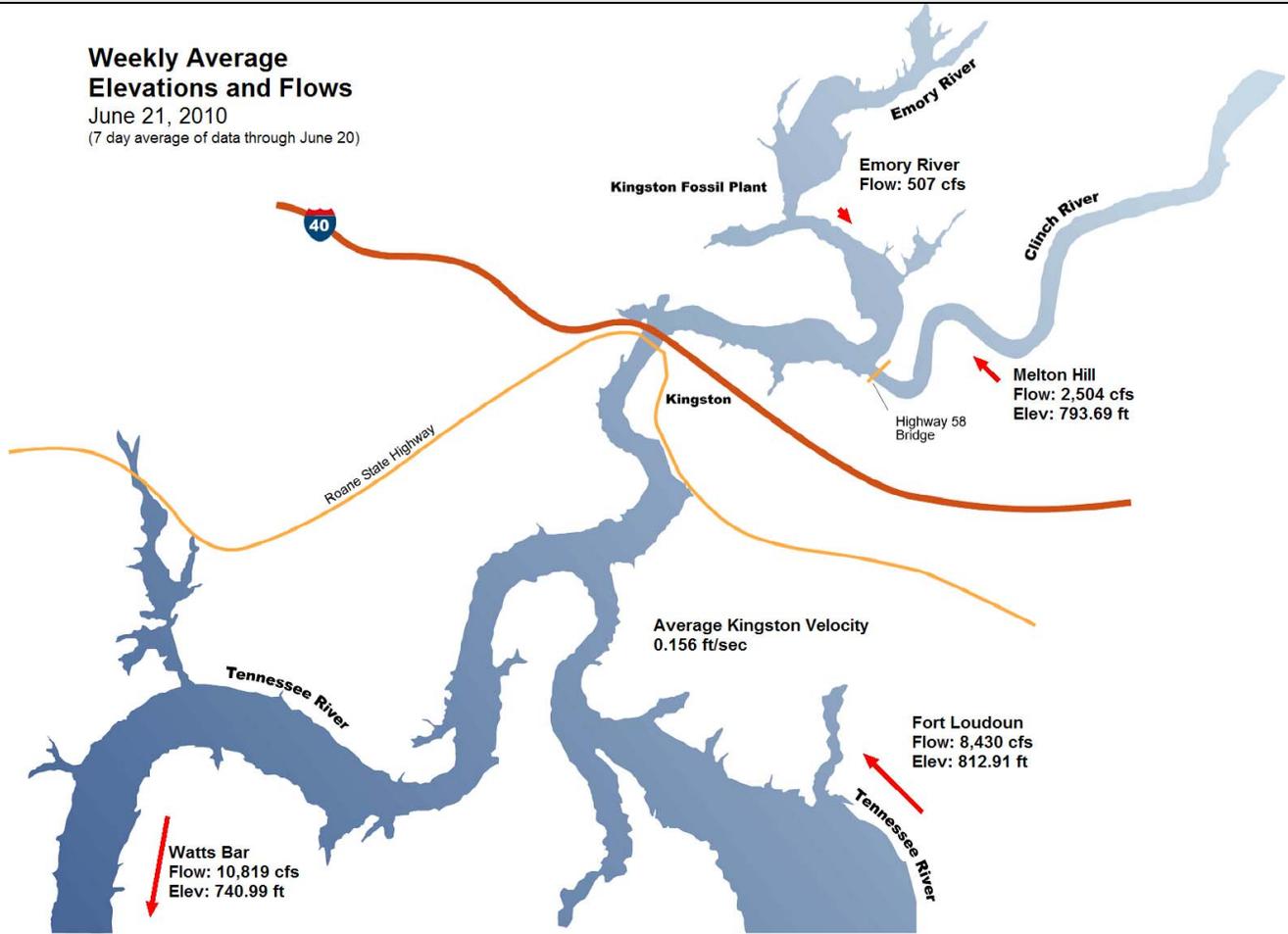
Outreach

- Provided updates on site activities to the Community Advisory Group.
- Updated Administrative Record with work plans and relevant documents.
- Added transcript of May 20 public meeting to webpage and administrative record.
- Continued to respond to calls and visits from residents.
- Updated message boards along Swan Pond Road announcing road construction areas.
- Responded to CAG questions raised during CAG public meeting.
- Worked on Kingston Ash Recovery Project Site update column for Roane County News.
- Updated site bulletin boards with safety and site information.
- Distributed "Emory River Reopening" hats to site workers at various locations.

RIVER OPERATIONS

Weekly Average Elevations and Flows

June 21, 2010
(7 day average of data through June 20)



MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
06/21	0800	Environmental Group Meeting (ICP Conference Room)
06/21	1000	Aquatic Resources Studies (Team Room)
06/21	1000	Profile Interim Cover Presentation (ICP Conference Room)
06/21	1200	MACTEC Safety Meeting (Trailer 1 Meeting Room)
06/21	1300	Jacobs Senior Managers Meeting (ICP Conference Room)
06/21	1300	Environmental Staff Meeting (Team Room)
06/21	1400	Schedule Updates (Old ICP Conference Room)
06/22	0930	BCP Meeting (ICP Conference Room)
06/22	0930	Communications (Team Room)
06/22	1000	TVA Communications (Team Room)
06/22	1000	Supply Chain (Old ICP Conference Room)
06/22	1100	Jacobs All Hands Meeting (ICP Conference Room)
06/22	1100	Plant Ash Meeting (Team Room)
06/22	1330	Dredge Team Meeting (ICP Conference Room)
06/22	1400	Safety Reporting (Team Room)
06/22	1400	Claro Dredge Cell Concept (Trailer 1 Meeting Room)
06/22	1500	Skimmer Wall Update with Aquarius (Old ICP Conference Room)
06/23	1000	Environmental Update (Team Room)
06/23	1000	Perimeter Dike Wall (Trailer 1 Meeting Room)
06/23	1100	MRC Environmental & Safety Meeting (ICP Conference Room)
06/23	1300	Jacobs Cost Containment Report (Team Room)
06/23	1330	Test America Weekly Call (Conference Call)
06/23	1430	Data Management Meeting (ICP Conference Room)
06/24	0900	IG/Sevenson Meeting (ICP Conference Room)
06/24	1000	Pace Telephone (Conference Call)
06/24	1000	TDEC Presentation Planning Meeting (Team Room)
06/24	1130	HSE Staff Meeting (Old ICP Conference Room)
06/24	1300	Jacobs OPR (ICP Conference Room)
06/24	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 14-20, 2010		Field Report	
Safety				Weekly Total	Cumulative Total
Near Misses				0	50
First Aid Incidents				0	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)		752	107,339
Total		Tons of Light Debris		0	959.57
Cenosphere Slurry		Gallons		180,000	14,250,000
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time	--	--	246,300	
TVA	Air – Fixed	2,331	--	3,437	
TVA	Surface/Utility Water	3,957	34,285	167,254	
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 18, 2010					
Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards (including mechanical dredging)			42,134	2,725,519
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			68,500	2,548,900

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 21st

