

KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

August 2-8, 2010

Aerial Image of Kingston Ash Slide (06/23/2010)



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Date of map imagery: 06/23/2010

Tennessee Valley Authority
Geographic Information & Engineering

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Issue (Date/Time)
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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

August 2-8, 2010

HIGHLIGHTS

- The project achieved a milestone last week - over three million (3,000,000) tons of ash has been shipped offsite.
- To date, 312 unit trains have been loaded and approximately 3,016,600 tons of ash has been transported to Uniontown, Alabama.

SAFETY

Program Summary

- Four (4) site specific HSE orientations were conducted for the week – 1,647 to date. Thirty-seven (37) HSE site orientation refresher courses were conducted for the week - 196 to date.
- No Safety Observation Reports were submitted for the week – 1,198 to date; 1,177 have been closed.
- Twenty-six (26) WBGT (Wet Bulb Globe Thermometer) weather alerts were issued last week. These are issued to alert supervisors of the current heat level so they can evaluate their crews for physical effort, PPE requirements and acclimation to determine appropriate maximum stay times and associated work/rest regimens.
- The last recordable injury, an insect bite, occurred on August 2, 2010.

Recordable Incident:

- August 2, 2010 – A CP employee was stung by an insect while putting on his gloves. Initially, he did not require treatment; however, the next day he complained of pain and swelling in his right hand and forearm. He was taken to the First Aid Clinic for evaluation. He was treated and advised to report back the following morning if no improvement. The next morning, he was still experiencing pain and there was swelling in the right forearm. The employee was taken to a medical clinic by a CP safety officer. A stinger was removed from the affected area and medication was prescribed for infection.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Mayes Construction continued installation of the offsite utilities with 90% complete.
- Continued recovering cenospheres from the onsite ponds. Responded to outreach calls as received.
- Aquarius Marine resumed mechanical dredging of Bob Summers Road area of the east embayment to complete the ash removal in that area. Dredging is planned to be completed by the middle of next week.

ASH DREDGING & PROCESSING

- Major components of the filter presses have been decontaminated and demobilized.
- Received final approval of the cantilever wall work package.
- Began removal of sheet pile at the north end of the Rim Ditch.
- Decontamination of TVA material barge continued.
- Began loading the dredge discharge pipe into sea containers and removing from site.
- Decontamination and demobilization of miscellaneous materials continued.

ASH DISPOSITION

- Loaded and transported seven (7) unit trains again this week.
- Continuing to monitor the rail in the yard for alignment issues due to the high temperatures.
- Continued monitoring moisture content of the ash and placing polymer in rail cars prior to shipping to Alabama. The moisture content is such that we are continuing to ship some cuts of cars without polymer.
- Continuing to work with the plant to minimize the impact of the delivery of coal trains, limestone cars, ammonia cars, and the loaded and empty ash trains. Coordinated the delivery of 6 coal trains last week, which were required to meet the demands for plant production.

SKIMMER WALL

- Aquarius Marine LLC, the Skimmer Wall Removal contractor has completed mechanically dredging the Intake Channel skimmer area for ash and debris. The debris removal work is 100% complete and was completed on August 3, 2010. The Skimmer Wall reconstruction is scheduled to start on September 13, 2010.
- TVA, Jacobs, and Worley Parsons are working to get the Design Change Notice (DCN) issued so construction drawings can be issued by August 16, 2010.

DIKE REINFORCEMENT

- Construction on Segment C is suspended until November 2010.
- Stantec continued to work on finalizing design efforts for the buttress
- Jacobs 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, August 2nd, and Friday, August 6th.
- Surface water analytical results are compared to the Tennessee Drinking Water Standards (TDWS), the Ambient Water Quality Criteria for Fish and Aquatic Life (F&AL) and to the Tennessee Water Quality Criteria (TWQC) 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 06/01/2010 and 07/26/2010. Comparisons to the F&AL are performed for dissolved concentrations only.
 - On the Tennessee River, arsenic was detected in 18 of 18 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 77 of 77 samples and selenium detected in 3 of 77 samples at concentrations well below the TDWS and F&AL. Total and dissolved thallium was detected in 4 of 77 samples. Thallium detections were near the limit of detection but exceeded the TWQC (0.00024 mg/L).
 - On the Emory River, arsenic was detected in 101 of 103 samples and selenium was detected in 40 of 103 samples. All detected arsenic and selenium concentrations were less than the TDWS and F&AL. Thallium was detected in 48 of 103 samples. Again, all thallium concentrations were near the limit of detection but exceeded the TWQC.
- Swan Pond Embayment surface water sampling continued routinely twice per week at two locations along the Swan Pond Embayment drainage.
- Final positioning and test activation of automated samplers in the Emory and Clinch Rivers; and in the Swan Pond Embayment have been performed in preparation for implementation of the Non-Time Critical Surface Water Monitoring Plan.

Sediment Sampling

- None to report.

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 work in the North Embayment (PS13); PS05; PS07; PS08 and PS09. With regulator approval of the revised Air Monitoring Plan, the TEOM is being 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

- Turtle trapping and sampling will be continuing over the next several weeks.
- TVA sample management and quality assurance staff are working with the biota analytical lab to improve sample

throughput and prioritize samples for analysis.

Non-Routine Sampling

- None to report.

RIVER RESTORATION

- Continued installation of monitoring wells.
- Continued lab analysis of ash leachability tests.
- Completed geotechnical testing (e.g. permeability and effective porosity) on ash and Shelby tube samples.

DREDGE CELL

- Continued re-contouring in the Central Dredge Cell. TVA and regulators approved the revised work plan for re-contouring as an interim step until TVA and Stantec meet with regulators on August 23rd for approval of a new design approach.
- The Deep Soil Mixing Pilot Test contractor completed six of eleven holes and is in the process of relocating the drill rig to complete the remaining five holes by the middle of next week.

PLANT ASH DISPOSITION

- Civil Projects operated the rim ditch, sluice trench, and ash pond areas to remove plant-generated ash and process it for disposal.

EMBAYMENT ASH PROCESS

- Civil Projects continued the ash consolidation in the north embayment. It is 80% complete.
- Civil Projects continued installation of the underpass foundation wall panels and rock fill. It is 55% complete.

COMMUNICATIONS

Communications

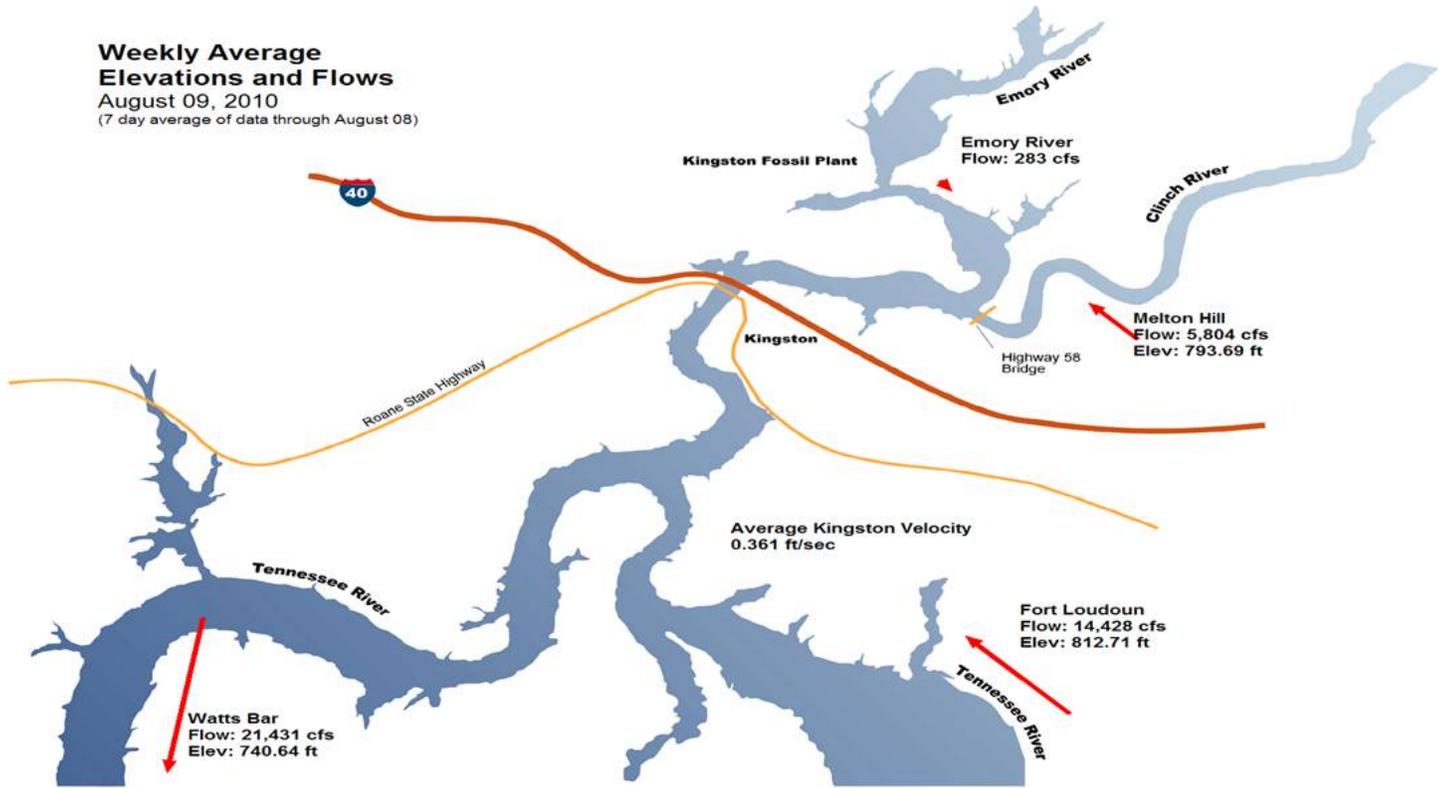
- Posted to Website: Weekly Report and Weekly Area Resident Update.
- Sent weekly update to the CAG and one to members of the public who have signed up to receive it.
- Provided site tour for Fishing Channel videographer and History Channel (Modern Marvels) film crew.
- Finished and delivered new issue of *Inside the Cell* newsletter for site and plant employees.
- Assisted with research and editing of the On Scene Coordinator Report.
- Submitted site update column to Roane County News for publication.
- Finished newspaper ad for Roane County News and The Shopper for time-critical work plan public comment period.

Outreach

- Provided updates to employees, customers, residents, and public officials on site activities.
- Met with Roane County High School Principal concerning an educational initiative.
- Updated Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.
- Prepared draft summaries of changes that will occur in monitoring plans.

RIVER OPERATIONS

**Weekly Average
Elevations and Flows**
August 09, 2010
(7 day average of data through August 08)



MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
08/09	0800	Environmental Meeting (ICP Conference Room)
08/09	0900	Building Ash Trains Across Swan Pond Road (Team Room)
08/09	1000	Aquatic Resources Studies (Team Room)
08/09	1100	Jacobs Senior Managers Meeting (ICP Conference Room)
08/09	1300	Environmental Staff Meeting (Team Room)
08/09	1300	Cagley Meeting (Old ICP Conference Room)
08/09	1400	Schedule Updates (ICP Conference Room)
08/09	1500	Business Plan Update (Team Room)
08/10	0800	Odom Meeting (Old ICP Conference Room)
08/10	0930	BCP Meeting (ICP Conference Room)
08/10	0930	Kammeyer Meeting (Trailer 1 Meeting Room)
08/10	0930	Communications (Team Room)
08/10	1000	TVA Weekly Communications Meeting (Team Room)
08/10	1300	Rules and Procedures (Team Room)
08/11	0800	Odom Meeting (ICP Conference Room)
08/11	0900	Non-Time-Critical Weekly Meeting (ICP Conference Room)
08/11	1000	Utilities Progress Meeting #7 (Team Room)
08/11	1100	MRC Meeting (ICP Conference Room)
08/11	1300	TVA, Jacobs, Stantec Status/Issues Meeting (ICP Conference Room)
08/11	1330	Test America Weekly Call (Conference Call)
08/11	1430	Data Management Meeting (ICP Conference Room)
08/12	1000	Performance Review (ICP Conference Room)
08/12	1000	Pace Telephone (Conference Call)
08/12	1130	HSE Staff Meeting (ICP Conference Room)
08/12	1300	Accident Investigations (Team Room)
08/12	1330	Mid-State Construction Kickoff Meeting (Old ICP Conference Room)
08/12	1400	OSC Report (ICP Conference Room)
08/12	1400	SOP Meeting (Team Room)
Daily	0730	TVA Monitoring Wells Meeting (Trailer 1 Meeting Room)
Mon & Thur	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: August 2 - 8, 2010		Field Report	
Safety				Weekly Total	Cumulative Total
Near Misses				0	26
First Aid Incidents				0	65
Recordable Incidents				1	18
Recordable Lost Time Incidents				0	12
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time (final)	--	--	267,188	
TVA	Air – Fixed (final)	2,560	--	3,791	
TVA	Surface/Utility Water	4,311	37,856	183,630	
TVA	Ground Water (spring and well)	113	1,305	5,296	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	268	447	3,368	
TVA	Biota	1,224	2,841	31,889	
*Week ending August 5, 2010					
Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards (including mechanical dredging)			0	2,762,105
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			67,000	3,016,600

Note: River dredging was completed on June 28, 2010.

Ash Loading to Trains - Weekly as of August 8th

