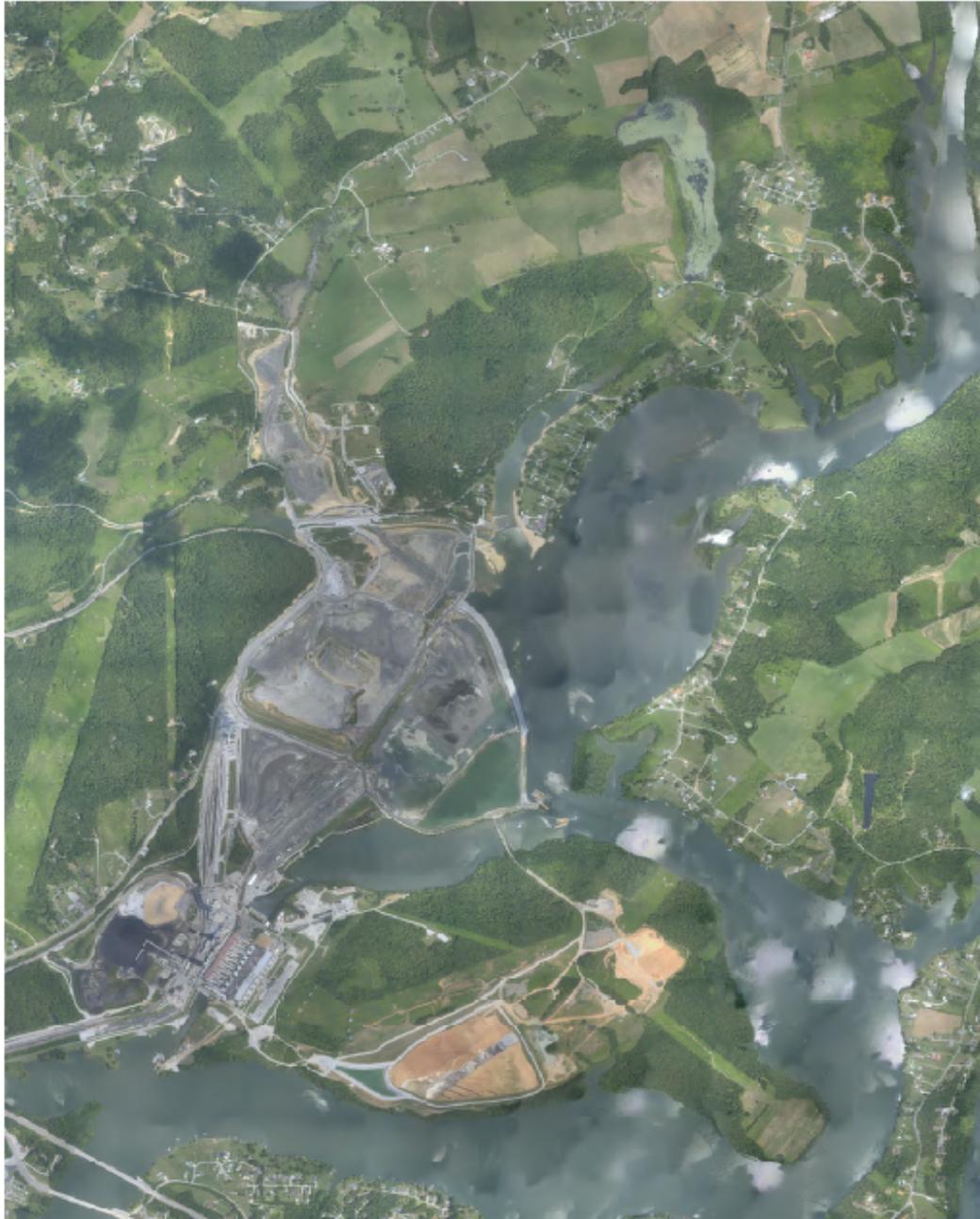


KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

August 16-22, 2010

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



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0 1,000 2,000 3,000 4,000
Feet

Date of map imagery: 06/23/2010

Tennessee Valley Authority
Geographic Information & Engineering

Prepared by:
Mary McDermott

Issue (Date/Time)
08/24/2010 10:51:58 AM

KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

August 16-22, 2010

HIGHLIGHTS

- To date, 326 unit trains have been loaded and approximately 3,159,800 tons of ash have been transported to Uniontown, Alabama.
- No incidents or injuries during the week.
- ORAU presented the results of the medical screening program. The results did not show any physical health effects related to the fly ash.

SAFETY

Program Summary

- Eleven (11) site specific HSE orientations were conducted for the week – 1,676 to date. One hundred ninety-six (196) HSE site orientation refresher courses have been conducted to date.
- Thirty-one (31) Safety Observation Reports were submitted for the week – 1,244 to date; 1,214 have been closed.
- Thirteen (13) 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.
- No incidents or injuries last week. The last recordable injury, an insect bite, occurred on August 2, 2010.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Mayes Construction continued installation of the offsite utilities with 92% 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 of Bob Summers Road area was completed on August 19th.

ASH DREDGING & PROCESSING

- Sheet pile removal continues along the Rim Ditch.
- Sheet pile being decontaminated at the press pad.
- One office trailer and three Conex boxes demobilized
- Decontamination and demobilization of miscellaneous materials continued.
- Completed mechanical dredging at Bob Summers Road.

ASH DISPOSITION

- Loaded and transported seven (7) unit trains again this week.
- Continued monitoring the rail in the yard for alignment issues considering the high temperatures we are experiencing.
- Continued monitoring moisture content of the ash and determined that the moisture content is such that we are shipping trains without polymer.
- Continued 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 six (6) coal trains last week, which were required to meet the demands for plant production.

SKIMMER WALL

- The Skimmer Wall reconstruction is scheduled to start on September 13, 2010.
- TVA, Jacobs, and Worley-Parsons are reviewing the Skimmer Wall Design to complete the design process for issuance of construction drawings. The review is scheduled to be completed by August 25th.
- Advance drawings issued to Aquarius for fabrication purpose on August 16.

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 16, and Friday, August 20. Routine monitoring is anticipated to continue for one additional week as some ash cleanup in the vicinity of the South Dock may be needed.
- Dredge plume monitoring continued in the vicinity of mechanical dredging.
- 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.

Sediment Sampling

- Vibecore sampling continued in support of the mechanical dredging operation.

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 PM_{2.5} instruments: a tapered element oscillating microbalance (TEOM) PM_{2.5} instrument at Lakeshore Drive (PS07); and PM_{2.5} 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. PM_{2.5} 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 well installation and development; planning for aquifer testing (flowmeter) and geoprobe investigation in the Dredge Cell & Ash Pond.
- Continued development of fate and transport flow model.

DREDGE CELL

- Continued re-contouring in the Central Dredge Cell. TVA and Stantec will meet with regulators on August 23rd for approval of a new design approach.
- Prepared 60% removal design package for Interim Ash Stacking and Instrumentation Plan
- Prepared presentation of Dredge Cell design strategy for discussions with TDEC and EPA on August 23, including analysis of additional groundwater mounding model scenarios.
- Continued subgrade preparation in Dredge Cell per revised Work Plan.

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 83% complete.
- Civil Projects continued installation of the underpass foundation wall panels and rock fill. The panel and foundation rock fill installation is 99% complete.
- The underpass bridge erection contractor, Midstate Construction, mobilized on August 16 and formed and placed concrete for the first bridge abutment on August 20.

COMMUNICATIONS

Communications

- Posted to Website: Weekly Report, ORAU Medical Screening Results, Embayment/Dredge Cell Action Memorandum Responsiveness Summary and Weekly Area Resident Update.
- Sent weekly update to the CAG and members of the public who have signed up to receive weekly emails.
- Began working on new issue of *Inside the Cell* newsletter for site and plant employees.
- Worked on site "no access" signs to be placed along Dike C area.
- Received EPA's comments on the updated Community Involvement Plan. These will be implemented and resubmitted next week.

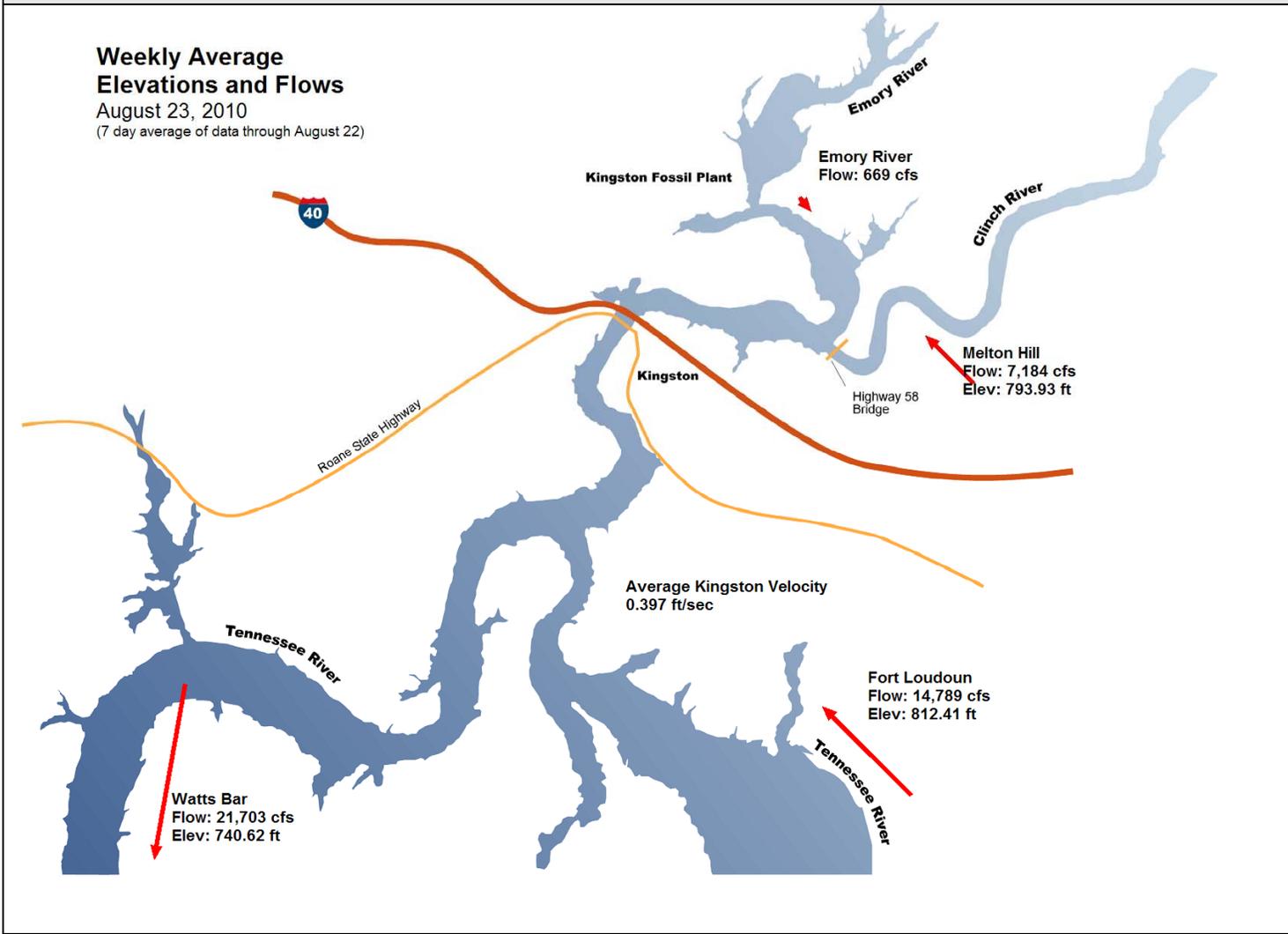
Outreach

- Provided updates to employees, customers, residents, and public officials on site activities.
- Worked on materials to be used for students at local high schools as part of the educational initiative.
- Met with Harriman High School principal about the educational initiative TVA is undertaking.
- Conducted first team meeting with potential presenters for the educational initiative.
- Put up signage for the shelving project at Kingston Library to house hard copy of Administrative Record.
- Worked with Roane County High School on scheduling September public meeting.
- Updated Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.

RIVER OPERATIONS

Weekly Average Elevations and Flows

August 23, 2010
(7 day average of data through August 22)



MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
08/23	0800	Environmental Meeting (ICP Conference Room)
08/23	0900	Procurement Meeting (Team Room)
08/23	0930	KRP Performance Review Dry Run (ICP Conference Room)
08/23	1300	Environmental Staff Meeting (Team Room)
08/23	1400	Schedule Updates (ICP Conference Room)
08/24	0930	BCP Meeting (ICP Conference Room)
08/24	0930	Communications (Team Room)
08/24	1000	TVA Weekly Communications Meeting (Team Room)
08/24	1000	MACTEC Discussion (Trailer 1 Meeting Room)
08/24	1130	Norfolk Southern Appreciation Luncheon (ICP Conference Room)
08/24	1300	Kingston Master Plan for CCPs (Team Room)
08/24	1500	New Kingston Lieutenant Intro (ICP Conference Room)
08/25	0900	Non-Time-Critical Weekly Meeting (ICP Conference Room)
08/25	1100	MRC Meeting (ICP Conference Room)
08/25	1300	TVA, Jacobs, Stantec Status/Issues Meeting (ICP Conference Room)
08/25	1330	Test America Weekly Call (Conference Call)
08/25	1430	Data Management Meeting (ICP Conference Room)
08/26	0930	Project Performance Review Meeting (ICP Conference Room)
08/26	1000	Pace Telephone (Conference Call)
08/26	1130	HSE Staff Meeting (ICP Conference Room)
08/26	1300	Jacobs OPR (ICP Conference Room)
08/26	1400	OSC Report (ICP Conference Room)
08/26	1400	SOP Meeting (Team Room)
08/26	1430	QA Leadership Team (Old ICP Conference Room)
08/27	0900	Stantec Quarterly Meeting (ICP Conference Room)
08/27	1300	Dotson Meeting (ICP Conference 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 16-22, 2010		Field Report	
Safety				Weekly Total	Cumulative Total
Near Misses				0	26
First Aid Incidents				0	74
Recordable Incidents				0	18
Recordable Lost Time Incidents				0	12
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time (final)	--	--	267,188	
TVA	Air – Fixed (final)	2,571	--	3,847	
TVA	Surface/Utility Water	4,367	38,356	185,929	
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	1,270	2,922	33,170	
*Week ending August 19, 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			72,100	3,159,800

Ash Loading to Trains - Weekly as of August 22nd

