

KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

July 5 - 11, 2010

Aerial Image of Kingston Ash Slide (05/19/2010)



Date of map imagery: 05/19/2010

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Tennessee Valley Authority
Geographic Information & Engineering

Prepared by:
Mary McDermott

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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

July 5-11, 2010

HIGHLIGHTS

- To date, 284 unit trains have been loaded and approximately 2,734,700 tons of ash has been transported to Uniontown, Alabama.
- The Deep Soil Mixing Pilot Project contractor, RECON SERVICES, started mobilizing equipment onsite. Drilling is planned to start Wednesday, July 14th.

SAFETY

Program Summary

- Six (6) site specific HSE orientations were conducted for the week – 1,616 to date. Eighty (80) site specific HSE orientation refresher sessions have been conducted to date.
- No Safety Observation Reports were submitted for the week – 1,177 to date; 1,124 have been closed.
- Fifteen (15) 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. Three (3) thunderstorm/lightning alerts were issued.
- The last recordable injury was an insect bite to a SWS employee on May 13, 2010.

First Aid

- July 10, 2010 – While exiting the cab of an articulating dump truck which was to be loaded by the clamshell at the skimmer wall dock, a worker twisted his ankle. The individual reported to First Aid. Ice was applied and his foot was elevated. No further treatment was necessary. The individual will report back to First Aid on July 12th to confirm no further treatment is required.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Mayes Construction continued installation of the offsite utilities with 83% complete.
- Continued recovering cenospheres from the onsite ponds. Responded to outreach calls as received.
- Continued to dry ash in the ballfield and move time-critical ash from the west storage areas to the trains.

ASH DREDGING & PROCESSING

- Removed the Adelyn from the river and began dismantling the dredge.
- Continued decontamination and demobilization activities on the filter presses and on heavy equipment.
- Received approval for the last hydraulic dredging concurrence form.
- Submitted a plan to TVA to complete the removal of Bob Summers Road using Aquarius Marine and their equipment.

ASH DISPOSITION

- Loaded and transported 6 unit trains this week. The project site was shut down on Monday, July 5, in honor of Independence Day.
- The rail in the yard is being monitored continuously for alignment issues considering the high temperatures.
- Continued monitoring moisture content of the ash and placing polymer in rail cars prior to shipping to Alabama.
- 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.

SKIMMER WALL

- Aquarius Marine LLC, the Skimmer Wall Debris Removal contractor is dredging in the skimmer wall area. A 50-foot path of ash and concrete beams is being removed to clear an area for rebuilding the wall.

DIKE REINFORCEMENT

- Construction on Segment C is suspended until November 2010.
- MACTEC continued installation of piezometers along Dike C as part of AECOM's recommendations. Lightening and mechanical problems prevented the completion of activities this week. The wells should be completed next week.
- Stantec continued to work on finalizing design effort 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 Friday, July 9th. Routine samples were not collected on Monday, July 5th, as operations were shut down for the Independence Day holiday observance.
- Triggered by local rainfall exceeding 1.0", surface water samples were collected on Saturday July 10 at all 10 fixed locations. The automated sampler at ERM 0.5 was also activated.
- 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 05/04/2010 and 06/04/2010. Comparisons to the F&AL are performed for dissolved concentrations only.
 - On the Tennessee River, arsenic was detected in 12 of 13 samples and selenium (dissolved) 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 previously reported as detected in one sample exceeding the F&AL was determined to be a non-detect during data validation.
 - On the Clinch River, arsenic was detected in 40 of 40 samples and selenium detected in 3 of 40 samples at concentrations well below the TDWS and F&AL. Total and dissolved thallium was detected in 1 of 40 samples and exceeded the TWQC (0.00024 mg/L).
 - On the Emory River, arsenic was detected in 43 of 49 samples and selenium was detected in 10 of 49 samples. Two detected arsenic concentrations exceeded the TDWS. All detected selenium concentrations were less than the TDWS and F&AL. Thallium was detected in 4 of 49 samples and all detected concentrations exceeded the TWQC. Dissolved copper was detected in 28 of 49 samples with one concentration collected at ERM 12.2 reported as exceeding the F&AL rejected during validation. Lead was detected in 32 of 49 samples, with one sample from ERM 2.1 exceeding the TDWS.
- Swan Pond Embayment surface water sampling continued routinely twice per week at two locations along the Swan Pond Embayment drainage. Additional Embayment sampling occurred on July 10, triggered by local rainfall exceeding 0.5".

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 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.
- EPA Region 4 is currently reviewing the revised Air Monitoring Plan. Approval is expected by the end of this week.
- Mobile real-time PM10 sampling continues in the surrounding community. All measurements were normal with the exception of measurements associated with residential burning.

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

- Waste oil drums were sampled for disposition.

FINAL REMEDIATION

- No update this week.

DREDGE CELL

- Stantec is working on establishing design criteria and design concepts for the Working Platform, Ash Tracking, and Perimeter Containment.
- Continued ash re-contouring in the Central Dredge Cell to build the subgrade for the Working Platform.

PLANT ASH DISPOSITION

- Civil Projects operated the Rim Ditch, Sluice Trench, and Ash Pond areas to remove plant-generated ash and prepare it for disposal.

EMBAYMENT ASH PROCESS

- Civil Projects continued the ash consolidation in the North Embayment with over 70% complete.
- Continued excavation of Swan Pond Circle Road underpass and received notification from Earthtec, foundation contractor, that pre-cast foundation panels will start delivery on July 21st.

COMMUNICATIONS**Communications**

- Posted to Website: Weekly Report and Weekly Area Resident Update.
- 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 new Dredge Report for site and plant employees.
- Edited and submitted ad copy for time-critical and non-time-critical work plans comment period to be published in the Roane County News and The Shopper.
- Conducted a meeting with representatives from communications, environmental and creative services on website redesign and accessibility.

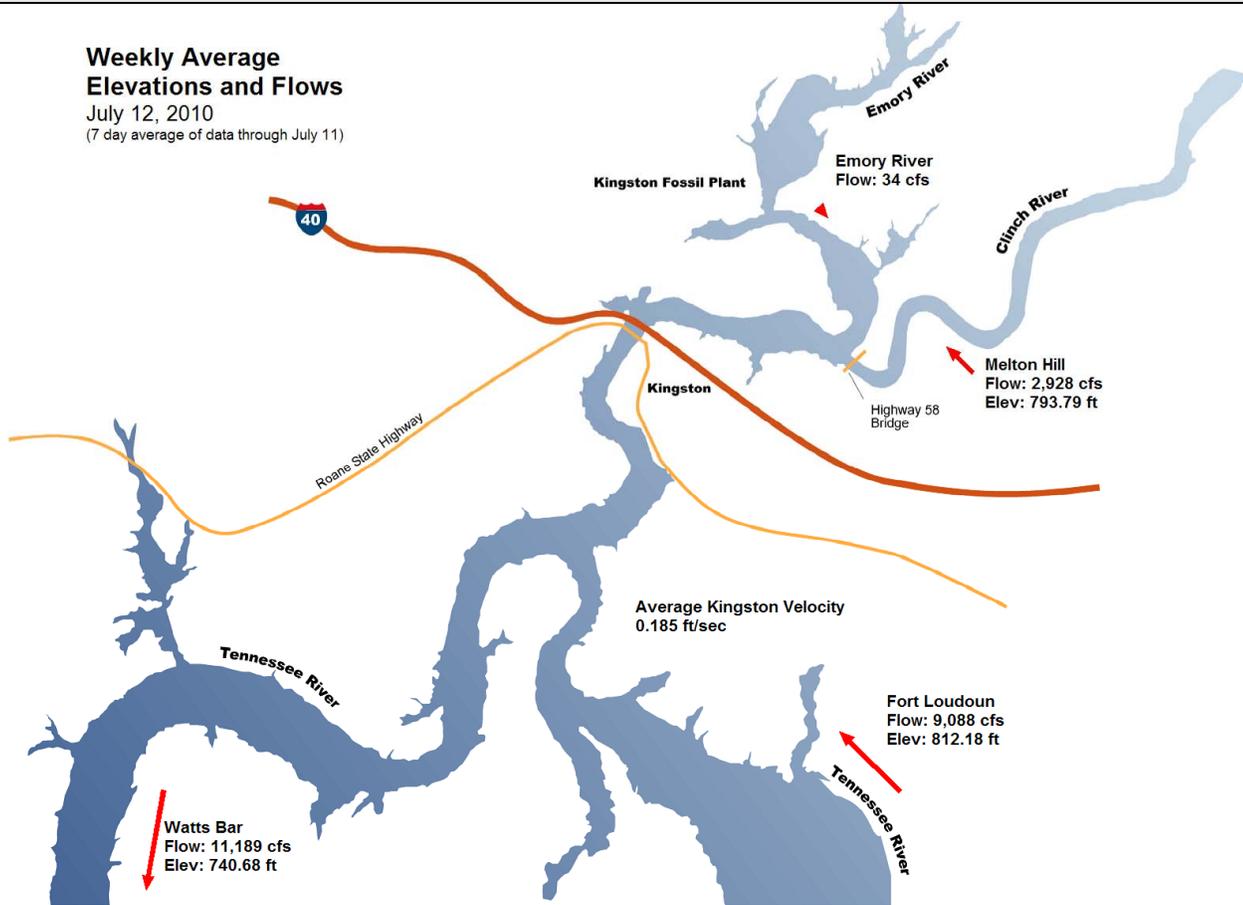
Outreach

- Provided updates to employees, customers, residents, and public officials on site activities.
- 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 road construction areas.

RIVER OPERATIONS

Weekly Average Elevations and Flows

July 12, 2010
(7 day average of data through July 11)



MEETINGS/CONFERENCE CALLS

Date	Time	Subject
07/12	0800	Environmental Meeting (ICP Conference Room)
07/12	0900	Biological Samples Meeting (Team Room)
07/12	1000	FCN/FCR/RFI Review Process (ICP Conference Room)
07/12	1000	Aquatic Resources Studies (Team Room)
07/12	1100	Jacobs Senior Managers Meeting (ICP Conference Room)
07/12	1300	DSM Pilot Test Contractor Kickoff (ICP Conference Room)
07/12	1300	Environmental Staff Meeting (Team Room)
07/12	1400	TVA/Jacobs/Stantec – Dredge Cell Design/Construction Meeting (ICP Conference Room)
07/13	0900	Forecasting (Trailer 1 Meeting Room)
07/13	0930	Ash Removal Indicators (ICP Conference Room)
07/13	0930	Communications (Team Room)
07/13	0930	Load and Transportation (Old ICP Conference Room)
07/13	1000	TVA Communications (Team Room)
07/13	1300	Rules and Procedures (Team Room)
07/13	1400	Schedule Updates (ICP Conference Room)
07/14	1100	MRC Meeting (ICP Conference Room)
07/14	1330	Test America Weekly Call (Conference Call)
07/14	1400	SOP Meeting (Team Room)
07/14	1430	Data Management Meeting (ICP Conference Room)
07/15	0900	Kingston Update (Team Room)
07/15	0900	Capturing Additional Sample Related Information (Downstairs – 173 Lakeshore)
07/15	1000	Pace Telephone (Conference Call)
07/15	1130	HSE Staff Meeting (ICP Conference Room)
07/15	1300	CSMRT (Old ICP Conference Room)
07/15	1500	Aquarius Marine Progress Meeting (Old ICP Conference Room)
07/16	0900	Brookshire Camera Installation (Downstairs – 173 Lakeshore)
Daily	0730	TVA Monitoring Wells Meeting (Trailer 1 Meeting Room)
Mon & Thur	0730	Site Safety Orientation (Old ICP Conference Room)
Daily	1500	Continuation of Dredge Progress & Contingency Plan (ICP Conference Room)
Tue & Thur	1600	Planning Meeting (ICP Conference Room)
Daily	1630	Ash Disposal Daily Recap (Team Room)

Kingston Recovery Project		Date: July 5-11, 2010		Field Report	
Safety				Weekly Total	Cumulative Total
Near Misses				0	50
First Aid Incidents				1	38
Recordable Incidents				0	11
Recordable Lost Time Incidents				0	12
Environmental					
Org	Matrix	Samples*	Analyses*	Results*	
TVA	Air - Real-Time	--	--	258,418	
TVA	Air – Fixed	2,402	--	3,520	
TVA	Surface/Utility Water	3,985	34,504	168,321	
TVA	Ground Water (spring and well)	95	1,099	4,409	
TVA	Ash	78	104	1,689	
TVA	Soil/Sediment	267	445	3,342	
TVA	Biota	1,048	2,467	27,090	
*Week ending July 8, 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			62,900	2,734,700

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 4reported hydraulic and mechanical dredging to date.

Ash Loading to Trains - Weekly as of July 12th

