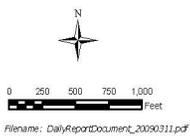


KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

September 14 - 20, 2009



Legend	
— Dike #2	— Skimmer Wall
— Dike C	— Weir # 1
— Dike D	 Proposed Dredge Segment
	 Ash Processing Facility

Date of map imagery: Feb. 25, 2009

Tennessee Valley Authority
OE&R - ER&S
Geographic Information & Engineering

Prepared by:
Mary McDermott

Issue (Date/Time)
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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

September 14 - 20, 2009

HIGHLIGHTS

- Considerable rain fell beginning September 15th and continued through the week. Flood stage was not reached in the Emory.
- Moved approximately 40,000 cy of ash from September 14-20 east of Dike 2.
- Dredged 62,214 cy of ash from September 7-13 from the Emory River.
- Moved 4 unit trains offsite for approximately 39,560 tons of ash.

SAFETY

Program Summary

- 7 site specific HSE orientations conducted for the week, 763 to date.
- 12 Safety Observation Reports submitted for the week; 290 to date; 218 of which have been closed. (Jump in SOR numbers to date is a result of including the Safety Coaching Visit findings in the SOR database. Next week the TLSA findings will be included as well.)
- The draft to Rev 04 of the Site Wide Safety and Health Plan was completed and will be distributed for internal review the week September 21st. Internal review will include TVA corporate HSE, TVA program management and Jacobs management staff. One week will be allowed for internal review. The document will then be distributed to subcontractors and regulators for review. Estimated distribution of the final document will be the week of October 19th.

Incidents

- September 12 – A Severson / Matteson dredge (Little Rock) was bumped by the work barge being used to pull anchors. When the dredge was struck it resulted in damage to a coolant line resulting in the release of approximately 100 gallons of coolant. The coolant was 80% water with the remaining 20% being a 50/50 mix of ethylene glycol and water. Overall quantity released was 10 gallons of ethylene glycol. This is not an RQ. Determination on whether this is an REE is still pending.
- September 18 – A Civil Projects laborer was backing a TVA Vehicle, TV-37943 (Ford F-350 Super Duty), near the South Wheel Wash Area and Backed his TVA Vehicle into a parked vehicle belonging to TVA Police, (Ford Explorer TV-47634). TVA Police were parked working the controlled access post. There were no injuries as a result of this incident and limited damage to the TVA Police Vehicle.
- September 18 – A MACTEC technician became stuck in the ash at the south end of rail spur #1. The individual was working in the area attempting to obtain moisture content readings in the ash when his feet became stuck. In the process of freeing himself, one leg became stuck up to his hip. The individual had to be freed by shoveling the ash away from his leg until he could pull himself free.

INFRASTRUCTURE/ASH MANAGEMENT

- Moved just under 40,000 cy of ash from east of Dike 2 to west of Dike 2. Used the wet ash storage areas for the latter part of the week due to heavy rainfall.
- Began hauling ash out of the area near Dike C once the temporary haul road was completed mid-week.
- Continued re-contouring ash in the north embayment.
- Applied 3 acres of Flexterra for dust control.
- Received permission from TVA to begin construction of the Offsite Utility work to replace the Harriman Utility Board and Kingston Utility Board water, gas and effluent lines destroyed by the ash spill. Preparation of RFP for bids to do the construction work will begin next week.
- Performed Storm Water Pollution Prevention Plan inspections, maintained HAZWOPER controls, and applied water to roads for dust control.

ASH DREDGING & PROCESSING

- The weekly dredging total for September 7-13 was 62,214 cy. Through September 13th, the Severson hydraulic dredged volume is estimated at 229,603 cubic yards and the total dredged from the river is at 624,231 cubic yards.

- The McKenzie 14" dredge operated 117.3 hours during the period. Availability for the week was 98%. Bathymetric survey data for the McKenzie has been processed through September 18th.
- The Little Rock 20" dredge operated 78.8 hours during the week. Availability for the week was 66%. Main source of down time was to replace the main engine coolant system. The hull flow coolant system was damaged when the dredge was bumped by a service barge. Bathymetric survey data for the Little Rock has been processed through September 11th. The Little Rock is currently dredging in an area with ash to the surface and surveys have not been possible due to the congested travel areas.
- Dredging from the Ash Pond was performed for 17 hours by TVA and discharged 6,192 yards to the Rim Ditch.
- Severson collected NTU and TSS samples on weekdays from the Sluice Trench discharge. Results indicate that the desired recovery is not being achieved. Severson was requested to implement changes to improve ash recovery in the Rim Ditch/ Sluice Trench system.
- Pipeline installation continued for a dedicated pipeline for the TVA 14" dredge with fusion welding of the 16" HDPE pipe current with deliveries.
- Pipeline installation was initiated for a dedicated pipeline for the new Severson 16" dredge with fusion welding of the 20" HDPE pipe current with deliveries at week's end.
- Several truck loads of materials for the new 16" dredge arrived on site. The last two loads are due in early next week.

ASH DISPOSITION

- Loaded and moved 4 unit trains this week. Were unable to load three days due to rain.
- Have loaded and transported 65 unit trains to date.
- Loaded and transported approximately 39,560 tons of ash this week, for a total of approximately 578,460 tons.
- Began maintenance work in the rail yard which included re-gauging rail and replacing both switch and rail ties.
- Continued evaluations on bids for installing two additional rail spurs to support railcar loading operations and signal crossing on plant main track middle crossing.

CENOSPHERE RECOVERY

- Outreach calls from local residents are minimal.
- The TVA tug and barge mounted excavator continued debris removal. The tug was assisted by SWS boat crews.
- The three barge mounted vacuum units worked in Division A removing cenospheres. Cenospheres from the dredging area and remaining ash east of dike C continue to generate cenospheres. Rains throughout the week increased the amount of cenospheres coming from the ash.
- Began work on constructing a new cenosphere collection pit at the end of the rim ditch to remove cenospheres before they enter the sluice channel. Sediment removal from the sluice channel has made cenosphere recovery difficult and has lead to an increase in the amount of cenospheres in the Ash Pond. The collection point at the end of the rim ditch should improve cenosphere management in the ash pond.

SKIMMER WALL

- Continued evaluations on the Contractor Bids for the Underwater Salvage Operations for the Excavator and Skimmer Wall Debris Removal from the river.
- Planning for the Skimmer Wall Replacement operations, including dredging and debris removal operations continued, with a Interactive Planning Session scheduled for Wednesday, September 23rd, involving project, KIF Plant, and compliance personnel from TVA and Jacobs.

DIKE REINFORCEMENT

- Stantec provided the design for the northern section of the Dike C buttress. The design will be incorporated into a work plan and issued to TVA and EPA for review next week.
- Discussed construction of the buttress in the intake channel with TVA River operations. Model used to construct the diffuser system will be used to model the impacts of the buttress in the intake on the flow to the plant.
- Jacobs continued to monitor the dikes at Kingston on a daily basis.

ROUTINE MONITORING

Surface Water Sampling

- Routine surface water fixed station monitoring occurred on Monday, September 14th, (due to the holiday) and Friday, September 18th. Samples for nutrient analyses were also collected on Monday, September 14th. Due to a >1.0 inch rainfall event, the fixed stations were also sampled on Thursday, September 17th. Through August 23, there have been no ash-related constituents detected above any criteria (i.e., ambient water quality, domestic water supply) for the three constituents of primary interest (arsenic, selenium, mercury). Since the May 4, 2009 Emory River high flow event, the total suspended solids (TSS) concentrations have consistently averaged less than 20 mg/L.
- Daily monitoring of dredge plumes continues. The highest plume turbidity measurement recorded to date was 347 NTU. Since aggressive dredging began, arsenic has been detected in five plume samples (data through August 27th) above the Tennessee Drinking Water Standard (TDWS), with a maximum in one sample of 0.024 mg/L. Selenium has not been detected in any of these plume samples.
- Swan Pond Embayment surface water sampling continues twice weekly at two locations along the Swan Pond Embayment drainage ditches. Since the tie-in off the Embayment settling basins, TSS results from samples collected at the settling basin effluent and from the clean water ditch average below 20 mg/L. Total and dissolved arsenic and selenium concentrations have declined as the settling basins and clean water ditch have come on line. The arsenic concentrations sporadically exceed the Tennessee Drinking Water Standard (TDWS), but are below the Aquatic Water Quality Standard (AWQS). Selenium concentrations are well below the TDWS, but continue to be, on average, above the AWQS.

Sediment Sampling

- A vendor crew demonstrated a Vibracore sediment on Tuesday and Wednesday, September 15th and 16th. Based on the demonstration, TVA procured the unit and is using it to perform visual verification of sub-bottom profile data.
- Sub-bottom data continue to be reduced and interpreted and the sub-bottom crew continues profile work along the Emory, Clinch, and Tennessee Rivers.

Air Sampling

- All air monitoring results, including fixed-station and real-time monitoring results continue below ambient air quality criteria.
- TVA's real-time TEOM PM2.5 instrument is operating at the Lakeshore Drive (PS07) air monitoring location. Data for this instrument are available on the regulator-only website.

FINAL REMEDIATION

- Work continues on addressing comments for the work plan. A comment response form was submitted to EPA and TDEC on September 18th.
- Engineering and risk assessment activities continue for the dredge cell/embayment EE/CA.

DREDGE CELL

- Just over 8000 cy of ash were placed in the test area until the rains made the area too wet for continued work.
- Relic material was brought into the drainage area early in the week. Rains beginning Tuesday made conditions too unsafe to continue relic material movement the rest of the week.

COMMUNICATIONS

Communications

- Press conference and announcement of Roane County Economic Development Foundation.
- Published public notice re: extension of public comment period for Action Memorandum and Administrative Record
- Finalized and printed Dredge Report.
- Scheduled and published notice of October 1 public meeting.
- Posted to TVA's Kingston Webpage: Weekly Progress Report, Economic Development Funds to Support Kingston Recovery, Water Test Results Updated, Coal Burn Test.
- Continued to handle daily calls from the news media.

Outreach

- Submitted TAP to EPA.
- Met with individual residents about property and operations issues.

- Continued to handle calls and visits from residents.
- Responded to Congressional Inquiries and TVAINFO letters about residents.

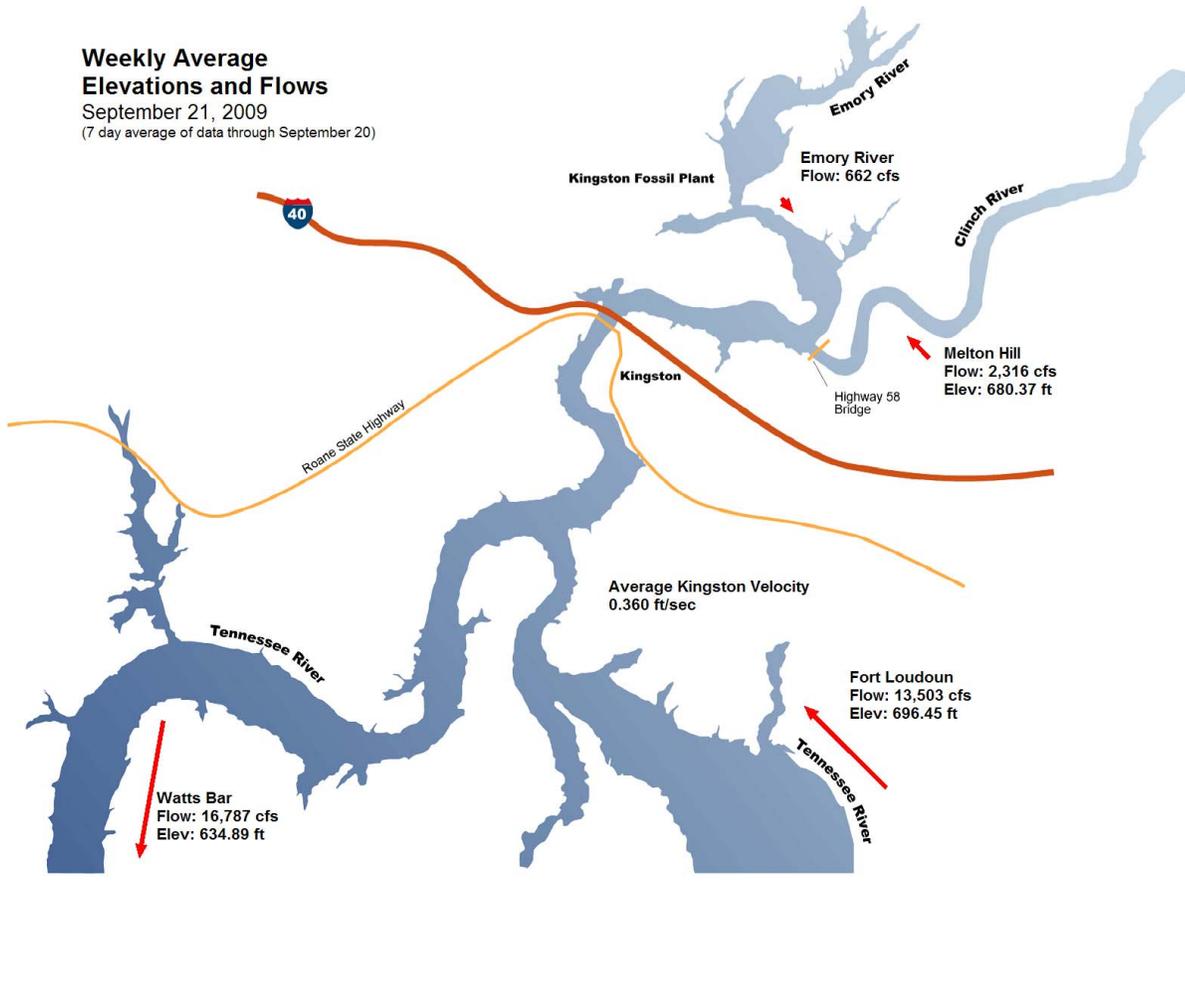
Valley/Government Relations

- Announcement of Roane County Economic Development Foundation
- First meeting of Roane County Economic Development Foundation and announcement of first projects to be funded.

RIVER OPERATIONS

Weekly Average Elevations and Flows

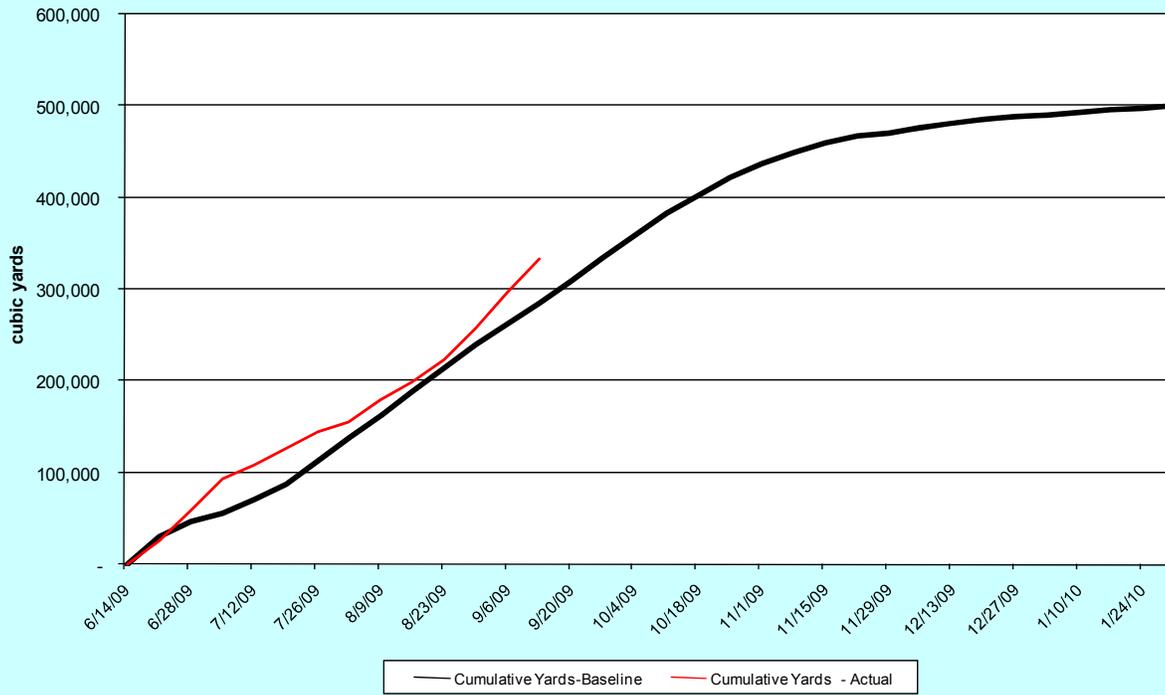
September 21, 2009
(7 day average of data through September 20)



MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
09/21	0730	Environmental Meeting (ICP Conference Room)
09/21	0900	Dike C Buttress Intake Channel (ICP Conference Room)
09/21	1000	Aquatic Resources Studies (Team Room)
09/22	0930	Kingston Meeting (Team Room)
09/22	1100	Jacobs Monthly All Hands Meeting (ICP Conference Room)
09/22	1700	Sevenson Dredge Recovery Meeting (Team Room)
09/23	0800	Time Critical Weekly Meeting (ICP Conference Room)
09/23	0900	Data Management Meeting (ICP Conference Room)
09/23	1000	Skimmer Wall Salvage & Installation Meeting (ICP Conference Room)
09/23	1330	Test America Weekly Call (Conference Call)
09/23	1400	MRC Environmental & Safety Meeting (Team Room)
09/24	0730	Environmental Meeting (ICP Conference Room)
09/24	0900	KIF SOP Meeting (Team Room)
09/24	1000	Pace Telecon (Conference Call)
09/24	1030	Data Management Meeting (Team Room)
09/24	1130	HSE Staff Meeting (ICP Conference Room)
09/24	1300	Jacobs Senior Staff Meeting (ICP Conference Room)
09/24	1700	Sevenson Dredge Recovery Meeting (Team Room)
09/25	1000	Alliance Hall (Team Room)
Daily	0730	Site Safety Orientation (Team Room)
Daily	1600	Planning Meeting (ICP Conference Room)

Kingston Recovery Project		Date: September 14-20, 2009		Field Report	
Safety			Weekly Total	Cumulative Total	
First Aid Incidents			0	18	
Recordable Incidents			0	6	
Lost Time Incidents			0	2	
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)	775	79,610	
Total		Tons of Light Debris	0	959.57	
Cenosphere Slurry (gallons)			216,000	7,562,500	
Environmental					
Org	Matrix	Weekly Samples Collected	Total # of Samples Collected to date	Sample results	
				received	Verified
TVA	Air - Real-Time (totals thru 9/13)	4,232	105,771	105,771	105,771
TVA	Air – Analytical (wkly results not available due to transition to new contractor)	0	1,547	1,455	1,439
TVA	Surface/Utility Water	72	2,657	2,507	198
TVA	Ground Water (spring and well)	0	32	33	2
TVA	Ash	0	352	393	50
TVA	Soil/Sediment	0	141	224	9
Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards (9/7-9/13)			62,214	624,231
Ash Pond	Estimated Cubic Yards			6,192	140,392
Stilling Pond	Estimated Cubic Yards			0	24,350
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume			39,928	373,428
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume			0	73,000**
Ash Disposal	Estimated Tons			39,560	578,460

**Ash Removal East of Dike 2 - Weekly
as of September 20th**



**River Dredging - Weekly
as of Sept. 13th**

