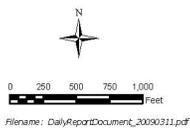


KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

July 27 – August 2, 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
GE&R - ER&S
Geographic Information & Engineering

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Mary McDermott

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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

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HIGHLIGHTS

- The clean water ditch in the east embayment was completed.
- Moved 13,000 cubic yards of ash from east of Dike 2 to the ash loading area.
- Began installation of sheet piling along rim ditch to stabilize the shore as well as weirs in the ditch to control hydraulics.
- Continued major dredging mobilization activity.
- Transported approximately 43,000 cubic yards of ash offsite.

SAFETY

Incidents

- July 27 – A MACTEC employee suffered a finger laceration from a sharp edge of a railcar. This was the second incident in three weeks. The Jacobs CM and MACTEC PM developed an enhanced inspection process to identify railcars that present cut hazards to personnel lining them. In addition, cut resistant gloves have been procured and are in use by lining crews.
- July 29 – A Norfolk Southern employee received a recordable injury to his mouth when he was apparently struck accidentally by his co-worker while he was trying to remove an airline from a railcar. His hand slipped and struck the individual in the mouth / face. Report is still pending from NS. Notification was made per TVA requirements.
- July 30 – A property damage incident occurred to a flatbed trailer being offloaded by Severson. The equipment operator attempted to remove dunnage from the trailer with an excavator and put gouges into the trailer and damaged the side rail of the truck. The operator was removed from the site.
- July 31 – A MACTEC employee lining rail cars fell when they stepped out of their JLG and struck the edge of the rail spur with their back. The individual was evaluated by the on site paramedic and released to normal duty. This is classified as a first aid at this time.

Site Safety Activities

- 38 site specific HSE orientations conducted for the week, 621 to date.
- 37 Safety Observation Report submitted for the week; 140 to date; 56 of which have been closed.
- Received several SORs related to improper work practices regarding HAZWOPER controls. These include smoking, eating and drinking in exclusion zones or vehicles. This has continued to be a trend and needs to be addressed consistently across the site.
- Noted 3 serious "line of fire" observations on site last week deemed imminent hazards, all three of these issues were stopped immediately. Everyone on site should be looking for these type of concerns and if observed immediately intervene since they are classified as imminent hazards.
- These include the following:
 - Maintenance crew working under tracks of amphibious excavator by rolling machine to the edge of a hill and allowing the tracks to hang off the side of the hill. (Stopped by Jacobs safety)
 - Sheet-piling foreman standing on tracks of excavator while equipment was in operation driving piles. When operator went to move machine, foreman would step into the cab of the excavator and hang onto the sides of the cab. (Stopped by Jacobs / SES safety)
 - Welder tacking sheet piles together in fall zone of next sheet being hoisted into position for driving. (Stopped by Jacobs / SES safety)

INFRASTRUCTURE/ASH MANAGEMENT

Engineering

- CTI (Utilities Engineer) completed the engineering of the utility enhancements. The Utility Boards of

Harriman and Kingston are reviewing the design, with approvals expected early next week. The plans will then be sent to the state for their review and approval.

- Continuing electrical design for the car wash – working with TVA on electrical requirements.

Utilities

- No construction activities at this time.

Water Management

- Continued removing the stockpile of ash from the east embayment. Removed the plug to open the clean water ditch to the river.
- Continued work on the dirty water ditches in the north embayment, which includes excavating the ditch and installing rock on the bottom and sides for slope stabilization since the area contains a lot of sand.
- Continued installation of check dams and re-contouring of area for effective water management/drainage.
- Performed Storm Water Pollution Prevention Plan (SWPPP) inspections as required.

Dust/Erosion Control

- 2 acres of Flexterra applied this week.
- 387 acres of Flexterra applied since January 31, 2009.
- Continuing operating water trucks on roads and around ash piles as needed for dust control.
- Determining what roads to apply calcium chloride for dust control protection. It appears to be working well along the roads on Dike C where it was tested.
- Had numerous vendors in to demonstrate their products. They ranged from short to long term remedies for dust control and vegetation. Evaluations are on-going to determine the best products for our use.

Miscellaneous

- Continued moving ash from east of Dike 2 to storage areas. Moved approximately 13,000 in-place cubic yards this week.
- Continued installation of parking lots for craft and support areas for the HAZWOPER site.
- Continued building the new construction entrance off of Swan Pond Road. Continued utilizing this entrance for deliveries.
- Reworking the middle plant road to remove the sharp curve, making it safer to travel. Paving of areas will continue as weather permits.

ASH DREDGING & PROCESSING

- Nearly completed (over 95%) the installation of the improved Rim Ditch working platform (designed to safely support excavation equipment).
- Mobilized the installation rig and began installation of the sheet pile wall on the west edge of the Rim Ditch. Completed over 700 linear feet of the 1,800' long structure.
- Mobilized the installation rig and began installation of the sheet pile weirs in the Rim Ditch. Nearly completed the 120' required.
- Hooked up the new Ellicott 670 dredge to the pipeline in advance of resuming dredge activities this week.
- Continued beveling and began welding steel pipe for the 20" dredge (Little Rock).
- Received various materials and equipment including crane mats, steel sheet piles, and dredge pipe.
- Continued dipping the Sluice Trench with a crane and clamshell bucket and hauled this ash to the ball field.
- Began dipping the Rim Ditch in advance of resuming dredge operations this week.
- Performed most of the baseline bathymetry and survey activities in advance of resuming dredging.
- Continued demobilization of TransAsh and Southern Shores. Decontaminated equipment and transported numerous equipment off site including the dredge "Clyde", articulating trucks, excavators, spuds and spud wells, and other marine equipment.

ASH DISPOSITION

- Loaded and moved 5 trains this week. Continuing to work to refine the systems required to efficiently move the ash here in Kingston as well as Alabama.
- Have loaded and transported to the landfill approximately 43,000 tons of ash this week, for a total of approximately 180,000 tons.
- Both the loading and unloading contractors have each successfully loaded and unloaded an 85 car unit train in approximately 10 hours. The entire team is working towards successfully loading and unloading 110 car unit trains in the near future.

- Loading was suspended for two days during the week due to heavy rains and wet conditions in the storage area.

CENOSPHERE RECOVERY

- Outreach calls from local residents are minimal. The focus remains on addressing EPA identified sites in non-residential areas.
- All six barge units were working out of the Blue Springs Marina in the area of Tennessee River Mile 548. The crews worked through the weekend.
- The TVA tug and barge mounted excavator is assisting the barge crews down river.
- Continued collecting cenospheres on site around the ash and still ponds.

SKIMMER WALL

- Worley Parson provided a cost estimate for question resolution and design support for skimmer wall construction. The PR will be submitted early next week.
- Continued to work with Worley Parson and TVA plant personnel on addressing navigation lighting on the new skimmer wall.

DIKE REINFORCEMENT

- On Tuesday, July 28th, Stantec presented updated information on dike stability at the Kingston site. Although the factor of safety for global stability remains around 1.5, Stantec has lowered their modeled factor of safety for localized areas of the Dike C. The lower factor of safety is driven by TVA's desire to eliminate the potential for sloughing along the slopes. In most cases, sloughing would be considered a maintenance issue, but TVA has decided that measures need to be implemented to prevent sloughing at Kingston. The resulting localized factors of safety range from 1.13 to 1.39.
- Stantec has proposed armoring the dike system with riprap to eliminate the potential for sloughing. TVA and Jacobs has asked Stantec to model some alternative scenarios to see if a reduced effort might work. The initial estimate for the riprap work was several million dollars. A meeting is scheduled for next Tuesday to discuss modeling results and develop a plan forward.
- All dikes at Kingston will be monitored on a daily basis.
- Continued to monitor the eleven seeps along Dike C. The seeps are being formally monitored once per week. Seep conditions remain stable.

ROUTINE MONITORING

Surface Water Sampling

- Routine surface water fixed station monitoring occurred on Monday, Wednesday, and Friday, July 27th, 29th, and 31st. Samples for nutrient analyses continued with the weekly sampling event performed on Wednesday. Through July 14th, 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 been consistently less than 20 mg/L.
- Due to heavy rainfall overnight on Saturday, August 1st, additional samples were collected from the embayment locations on Sunday, August 2nd. TSS are consistently around 10 mg/L.

Sediment Sampling

- Bottom surveys of ash deposits in the Emory, Clinch, and Tennessee Rivers continued the week of July 27. Field crews are using the new TVA bottom profile instrument coupled with visual observations to fine-tune the data acquisition process. Initial bounding surveys have been completed and the work will shift to tighter control to develop maps of the ash deposits.
- Toward the end of the week, a weighted core sampler will be deployed on a specially-configured TVA pontoon boat to collect deeper sediment samples for visual comparisons and laboratory analyses.

Air Sampling

- All air monitoring results, including fixed-station and real-time monitoring results continue below ambient air quality criteria.
- The real-time TEOM PM2.5 instrument has been installed and is operating at the Lakeshore Drive (PS07) air monitoring location. Work will continue the week of August 3 to fine-tune the operations and data reporting capabilities of this instrument. This fulfills a commitment made to EPA and TDEC following the

audit of the TVA air monitoring program performed the week of June 29, 2009.

Data Management

FINAL REMEDIATION

- TVA reviewed the work plan for the non-time critical work. Efforts continue on the engineering and on the risk assessments for the EE/CA .
- The base layer for the test in the dredge cell continues to be constructed. Relic ash material is being used to fill in low areas near the test site.

COMMUNICATIONS

Communications

- Posted to TVA's Kingston Webpage: House Subcommittee on Water Resources and Environment Hearing, Air Sampling Results Updated, Fish Test Results Updated, Weekly Report Added.
- Tour of site with reporter from Birmingham National Radio.
- Continued to handle daily calls from the news media.

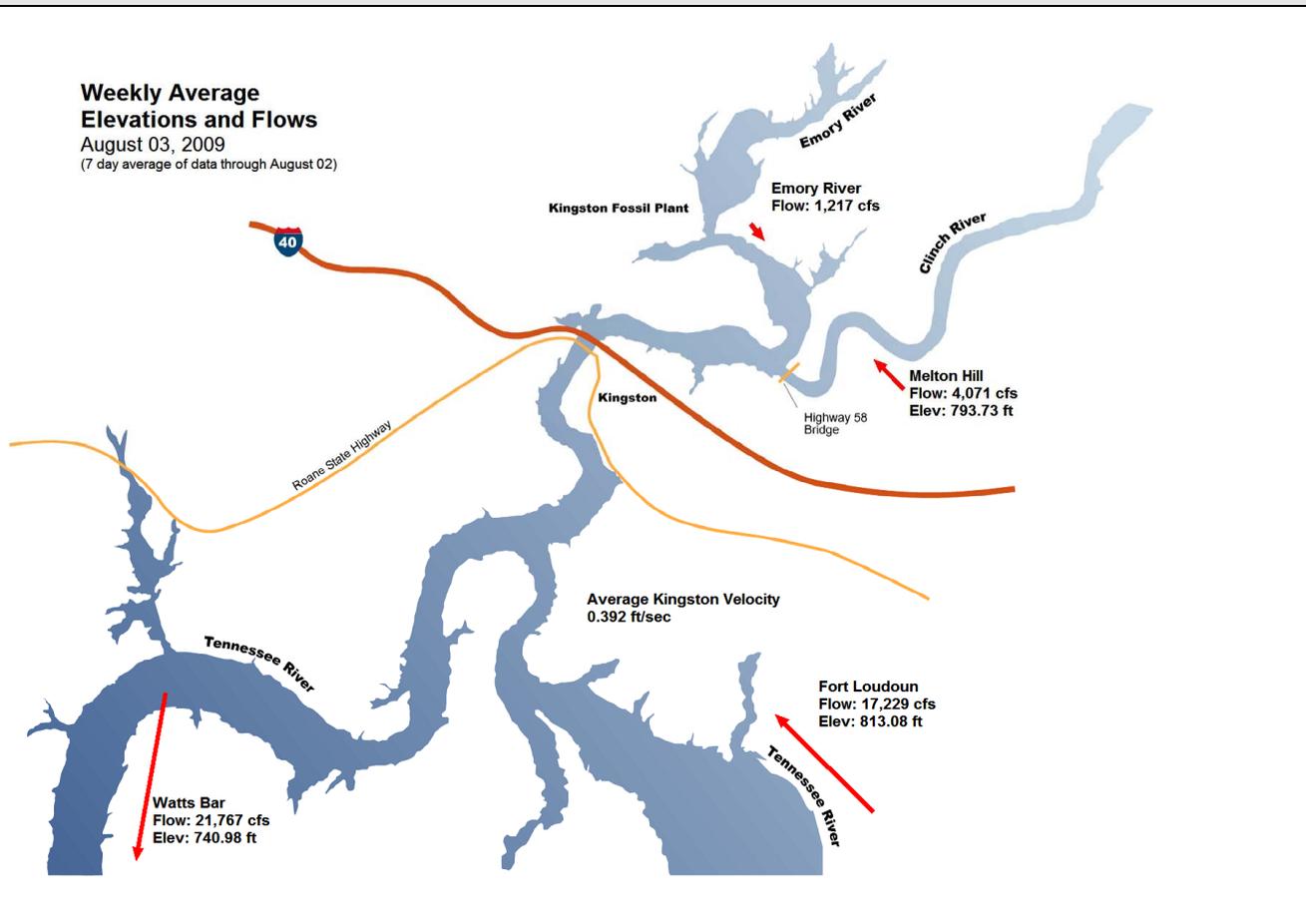
Outreach

- Met with individual residents about property and operations issues.
- Continued appraisals and offers on properties TVA is willing to purchase.
- Continued to handle calls and visits from residents.
- Responded to Congressional Inquiries and TVAINFO letters about residents.

Valley/Government Relations

- Attended and presented at Long Term Recovery Committee
- Tour of site for Cumberland County Commission
- Tour of site for Kingston City Council

RIVER OPERATIONS

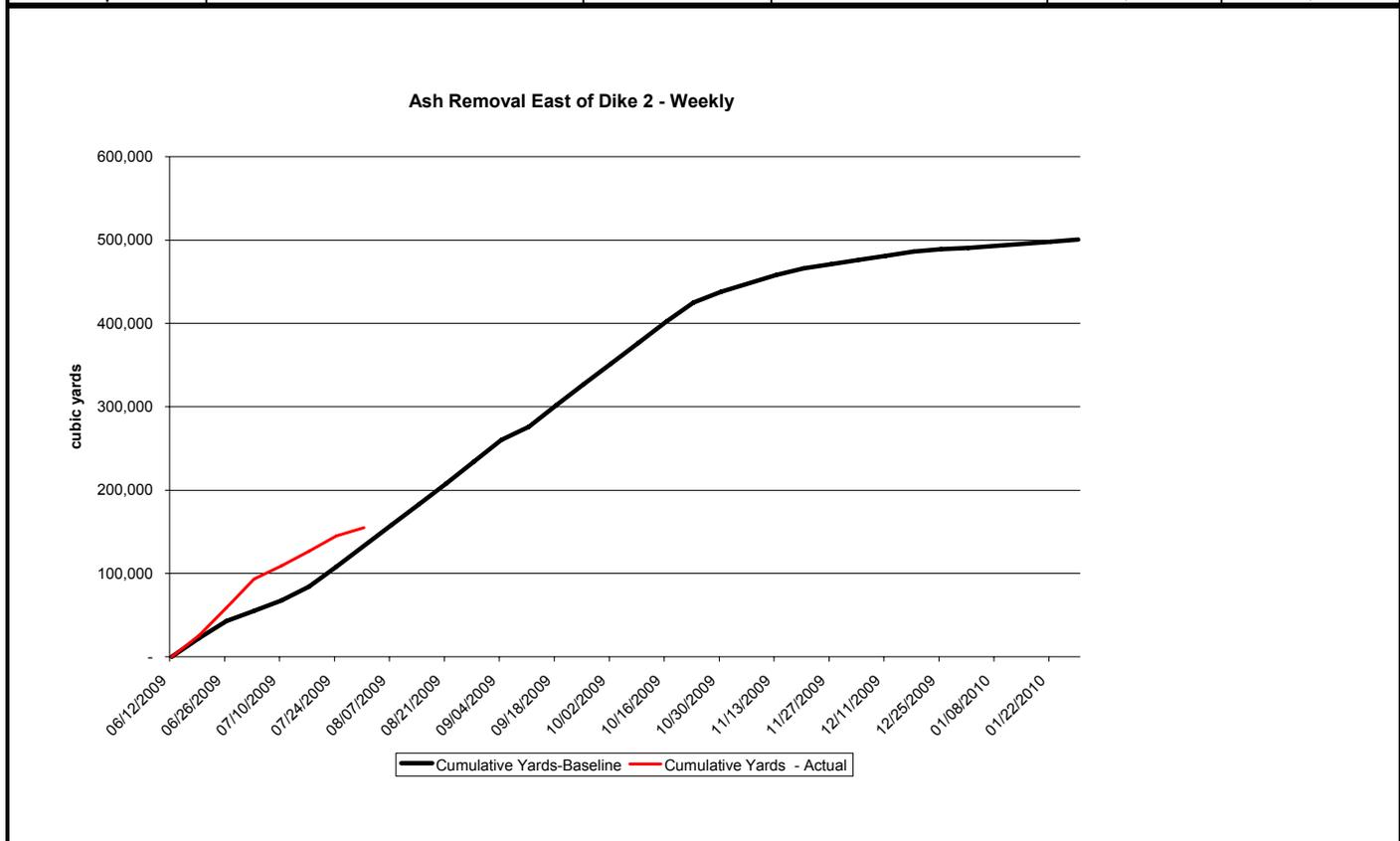


MEETINGS/CONFERENCE CALLS		
Date	Time	Subject
08/03	0730	Environmental Meeting (ICP Conference Room)
08/03	0800	Time Critical Meeting (ICP Conference Room)
08/03	1000	Aquatic Resources Study (Team Room)
08/03	1300	Dredge Team Meeting (Team Room)
08/03	1330	CPG & Site Works (ICP Conference Room)
08/04	0900	EMS Meeting (Team Room)
08/04	0930	Congressman Davis Briefing (ICP Conference Room)
08/04	1000	Project Managers Weekly Meeting (Team Room)
08/04	1330	Dike Stability Presentation (ICP Conference Room)
08/05	0800	Data Management Meeting (ICP Conference Room)
08/05	0900	KIF Recovery Staff Meeting (ICP Conference Room)
08/05	1300	Air Monitoring Data Management (Team Room)
08/05	1400	Mule Training (ICP Conference Room)
08/06	0730	Environmental Meeting (ICP Conference Room)
08/06	0800	Time Critical Meeting (ICP Conference Room)
08/06	0900	Paul LaPointe Meeting (ICP Conference Room)
08/06	0900	KIF SOP Meeting (Team Room)
08/06	1030	Fly Ash Technology (Team Room)
08/06	1030	Data Management Meeting (ICP Conference Room)
08/06	1130	HSE Staff Meeting (ICP Conference Room)
08/06	1300	Planning for 110 Cars Per Day Shipment (ICP Conference Room)
08/06	1300	Jacobs Senior Staff Meeting (Team Room)
08/07	0900	Infrastructure Weekly Meeting (Team Room)
Daily	0730	Site Safety Orientation (Team Room)
Daily	1600	Planning Meeting (ICP Conference Room)
Daily	1700	Cenosphere Recovery Meeting (Team Room)

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)	830	73,439
Total	Tons of Light Debris	0	959.57
Cenosphere Slurry (gallons)		189,000	6,481,500

Environmental					
Org	Matrix	Weekly Samples Collected	Total # of Samples Collected to date	Sample results	
				received	Verified
TVA	Air - Real-Time (7/24 - 30)	3,951	81,604	81,604	81,604
TVA	Air – Analytical (7/24 - 30)	12	1,507	1,423	1,039
TVA	Surface/Utility Water	68	2,197	1987	198
TVA	Ground Water (spring and well)	2	26	29	2
TVA	Ash	30	304	282	50
TVA	Soil/Sediment	0	79	126	9

Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards			0	473,146
Ash Pond	Estimated Cubic Yards			0	45,000
Stilling Pond	Estimated Cubic Yards			0	24,350
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume			13,000	159,500**
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume			0	73,000**
Ash Disposal	Estimated Tons			43,000	180,400



River Dredging - Weekly

