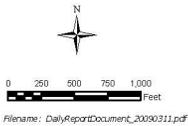


# KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

May 4 - 10, 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

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Issue (Date/Time)  
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# KINGSTON ASH RECOVERY PROJECT

## WEEKLY REPORT

May 4 - 10, 2009

### HIGHLIGHTS

- The wet weather slowed activities on the Storm Water Management system.
- 5-year flood on the Emory River released cenospheres that were entrained with upstream debris. Extra equipment and staff were brought on board to support downstream river cleanup.
- The high water damaged river equipment and limited river dredging quantities to 4,000 cubic yards. Another 12,000 cubic yards was removed from the Ash Pond.
- A land and rail transportation test was held under a variety of weather conditions. Much was learned about ash containment needs in the rail cars.
- The design of the rail spur began and is nearly complete.
- Community interviews began by interviewing elected officials this week.

### INFRASTRUCTURE/ASH MANAGEMENT

#### Engineering

- Working on the engineering and Design Change Notice (DCN) for the installation of the car wash.
- Obtaining survey for the utility enhancement design.

#### Roads

- Surveyors staked out the ramp on Dike C at the Skimmer Wall laydown area in preparation of the construction.

#### Utilities

- No construction activity at this time.

#### Water Management

- Most of the week's activities were impacted due to the rain event over the weekend. Much of the activity for the week centered on pumping water from the work areas to support getting crews back to work.
- No work was performed at Sediment Ponds 1A and 2A. To date, approximately 51,600 cubic yards of ash have been hauled from the Sediment Ponds to the Ash Processing Area.
- A minimal amount of excavation work was performed on the clean water ditches in the north embayment area.
- Performed Storm Water Pollution Prevention Plan (SWPPP) inspections as required.

#### Dust/Erosion Control

- No Flexterra was applied during this week; all regular dust control activities were impacted by the weather.
- 291.4 acres of Flexterra applied since January 31, 2009.
- Gibbons Farms on site to support the application of the Soiltac utilized on the fly ash that was shipped by rail to the disposal sites.
- Continuing to work with TVA personnel on additional short and long term remedies for dust control – seeding, alternatives to Flexterra.

### ASH DREDGING & PROCESSING

#### Environmental Data Collection

- Continued daily TSS monitoring at KIF NPDES 001. The May monthly average through Thursday May 8 is 11.44 mg/L.
- Dredge plume monitoring was performed Thursday through Saturday, May 7-May 9.
- Field staff collected samples from the Stilling Pond for grain size analysis to plan for the dredging of the Stilling Pond.

### **Dredging**

- High water volumes on Monday, May 4, resulted in equipment damage.
- River dredging cumulative to date volume: 106,000 cubic yards; 4,000 cubic yards were removed this week.
- Ash Settling Pond dredging continued as a day shift activity with approximately 12,000 cubic yards of material removed from the pond last week.

### **Ash Processing**

- The Ash Processing and Storage area contains approximately 160,000 CY of fly ash. A portion of the storage stockpile was utilized in support of the loading and disposal test.

## **ASH DISPOSITION**

- A vendor loading and transportation test was held this week. Two vendors tested several railcar lining systems in all types of weather. Several cars were not sent for disposal as a result of concerns over potential leaking in transit however, a total of 21 cars were sent offsite to two disposal locations. One train was held in transit for concerns over the tarps. Lessons learned so far include a need to line cars and provide cover.
- The design for the railspur was nearly completed by the design/build vendor. Excavation permits are being developed to allow commencement of construction this week. Some modifications to roads, utilities, and the guard shack will be needed once the design is received.

## **CENOSPHERE RECOVERY**

- Heavy rain on Sunday May 3<sup>rd</sup> created extremely high water flows down the Emory River. The flow carried a large amount of natural river debris (trees, branches, trash) and released cenospheres from the ash. Most of the booms along the river lost their anchors and needed to be put back in place.
- Recalled 10 crew members, three vacuum trucks and two barge-mounted vacuum units to support the increased work.
- Obtained a barge-mounted excavator to remove the large amounts of river debris to allow cenospheres to be recovered.
- Once the booms were re-established, work began on cleaning up the waterfront park in Kingston.

## **SKIMMER WALL**

- No significant activity. The high water limited dredging.

## **DIKE REINFORCEMENT**

- Stantec has completed 41 of the 74 proposed borings for analyzing dike stability. Poor weather slowed progress. There are two crews working on collecting data.
- Data from a scour investigation along Dike – C was forwarded to Stantec for review. The investigation showed no scouring in the lower section of Dike-C. Another round of data will be collected next week to see if the heavy rain fall events have changed bottom conditions.
- Data from ground line surveys was forwarded to Stantec. Data from the surveys should help refine the model and may increase the projected factor of safety for the dike. Start of work on placing a ramp along Dike C and improving the lower embankment road were delayed last week due to weather conditions.
- A notification to the regulators stating a need to remove trees and replace riprap along the lower section of Dike C was sent to TDEC this week.

## **ROUTINE MONITORING**

### **Surface Water Sampling**

- Routine surface water fixed station monitoring occurred on Tuesday, May 5, and Friday, May 8. The monitoring was postponed on Monday, May 4, due to high water safety concerns and again postponed on Wednesday, May 6, due to weather conditions.

- Periodic collection of Emory River water at ERM 12.2 continues for shipment to the laboratory in Florida that is performing toxicity testing on ash samples collected from the Emory River.

#### **Air Sampling**

- Fixed-location and real-time monitoring continued with no results above standards reported.

#### **Data Management**

- Electronic data packages continue to be received from the metals re-analysis of surface water samples collected in January and February 2009.
- Data validation continues for electronic data packages received from the laboratories. As they are received, the verified packages are being posted to the password protected website for regulator review.

### **FINAL REMEDIATION**

#### **Engineering (Dredge Cell)**

- Evaluation of costs of various base material for the test cells is underway.

#### **Documentation**

- No significant activity. A scoping meeting with the EPA RPM will soon be scheduled.

### **SAFETY**

- 32 site specific HSE orientations conducted for the week, 150 to date.
- 7 Safety Observation Reports submitted for the week; 37 to date; 19 of which have been closed.
- Completed a 60-day Safety Evaluation Report (SER). The in-brief was held on 5/5/09; and the out-brief on May 6, 2009. Final report is pending; a revisit will be scheduled for approximately 2 months.
- Began updating the Site Wide Safety and Health Plan per the Hazardous Waste Operations and Emergency Response requirements outlined in 29 CFR 1910.120. An RFP for training per these requirements was completed and should be issued this week.

### **COMMUNICATIONS**

#### **Stakeholders**

- Completed response letters to Mike Farmer's letters re: (2) Long Range Recovery Committee Communications (3) Long Term Recovery Committee request for 15% payment.
- Continued scheduling CIP interviews and followed up with confirmation letters.
- Began Community Involvement Plan interviews of public officials.
- Provided answers to Long Term Recovery Committee questions at May 6 committee meeting.

#### **Communications**

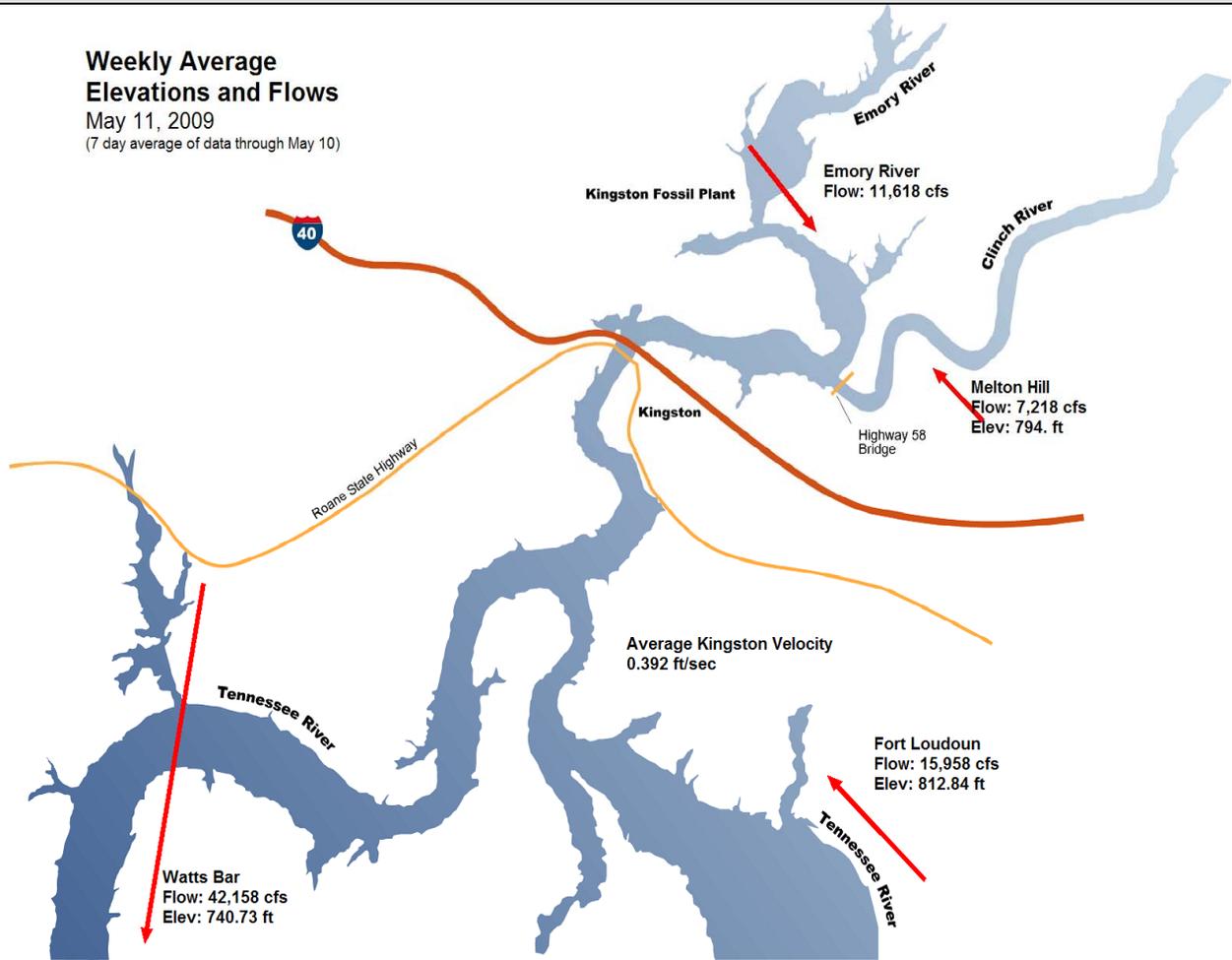
- Implemented Ash Load Test Communications Plan, including notifying key stakeholders, issuing Fact Sheet, and shooting video and photos.
- Developed Draft News Release and coordinated with EPA Region 4 Communications for announcement of EPA Order and Agreement.
- Began planning for Root Cause Analysis Announcement.
- Posted to TVA's Kingston Webpage: Emory River update regarding flooding, Air Sampling Results, Ash Loading Test Update, and Water Sampling Results Update.

#### **Outreach Events**

- Continued appraisals, offers and closings on properties TVA is willing to purchase.

## RIVER OPERATIONS

**Weekly Average  
Elevations and Flows**  
May 11, 2009  
(7 day average of data through May 10)



### Meetings/Conference Calls

Date	Time	Subject
05/11	1500	EPA/TDEC/TVA Telecon
05/13	0900	KIF Recovery Staff Meeting (ICP Conference Room)
05/15	1500	Executive Telecon

**Safety Status/Personnel Casualty Summary**

	Since Last Report	Adjustments To Previous Op Period	Total Involved
First Aid	0	0	8
Recordable Incidents	0	0	2
Lost/Restricted Time Incident	0	0	0

**Cenosphere/Debris Removal**

		Quantity	
Recovered Materials		Weekly Total	Cumulative Total
Outreach	Light Debris Removal – Land (bags)	0	18,867
Divisions A, B,C,D Cleanup	Division shoreline cleanup (bags)	2,485	49,096
Total	TONS OF LIGHT DEBRIS	0	835.23
Cenosphere Slurry (gallons)		213,000	4,727,500

**Environmental**

Org	Matrix	Weekly Samples Collected	Total # of Samples Collected to date	Sample results	
				received	verified
TVA	Air (Real-Time)	1,921	41,068	41,068	41,068
TVA	Air (Analytical)	19	1,357	1,259	1,039
TVA	Surface/Utility Water	42	1,288	1,179	198
TVA	Ground Water (spring and well)	0	5	5	2
TVA	Ash	0	81	80	50
TVA	Soil/Sediment	4	63	59	9

<b>Dredging</b>				Weekly Total	Cumulative Total
River	Estimated Cubic Yards			4,334	106,000
Ash Pond	Estimated Cubic Yards			12,000	45,000