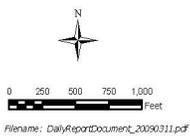


KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

August 31 – September 6, 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

August 31 – September 6, 2009

HIGHLIGHTS

- Excavated just under 40,000 cy of ash east of Dike 2 to storage areas west of Dike 2.
- Loaded and moved 7 unit trains this week for a total of 54 trains to date. Sent two 110-car trains.
- Bureau of Reclamation, TVA, TDEC, and contractors met to discuss buttressing Dike C. Agreements were reached on elements of the design.
- Transitioning to new air sampling contractor continues.
- Dredged approximately 43,900 cy from the river.

SAFETY

Incidents

- September 1 – A very serious Severson near miss / property damage incident occurred when a crew was attempting to remove a steel clad wooden spud on a work barge. The spud broke in half and a 29' piece fell to the deck narrowly missing two personnel.
- September 3 - An environmental non-compliance report was issued as a result of a crew not following proper procedure for discharging water pumped from their empty fuel tank.
- September 5 – Case update: A MACTEC first aid case originally reported on August 24, 2009 has been upgraded to a recordable – DART case. The initial injury reported was a knee laceration; it has since become infected requiring treatment with antibiotics and a recommendation of 7 days off work.

Site Safety Activities

- 12 site specific HSE orientations conducted for the week, 732 to date.
- 5 Safety Observation Reports submitted for the week; 245 to date; 182 of which have been closed.
- The revision 04 update to the Site Wide Safety and Health plan is underway.
- Trilateral Program - The weekly visit was held on Wednesday and covered MACTEC's load-out activity. There were some good discussions with the craft personnel and observations noted for follow-up.

INFRASTRUCTURE/ASH MANAGEMENT

- Moved 39,700 cy of ash from east of Dike 2 to the storage areas west of Dike 2
- Continued re-contouring the north embayment as well as areas proposed for staging of wet ash.
- Performed Storm Water Pollution Prevention Plan inspections.
- Applied 12 acres of Flexterra this week.
- Maintained HAZWOPER and dust control measures.

ASH DREDGING & PROCESSING

- Dredging from the river was performed Monday through Friday on a two shift basis. The Labor Day Weekend was observed by the Severson contractor as per schedule. Total dredged in-situ yards discharged to the Rim Ditch were 43,940 cy since last report.
- The McKenzie 14" dredge operated 97.0 hours during the period and removed 17,761 cubic yards from Segment 1. Survey adjusted through September 4, 2009.
- The Little Rock 20" dredge operated 81.0 hours during the week and removed 26,179 cubic yards from Segment 1. The Little Rock 20" dredge experienced significant down time again this week. A confined space entry was performed to repair a stress crack that was allowing river water to enter the hull and the port diesel fuel cell. Survey adjusted through September 2, 2009.
- Dredging from the Ash Pond was performed for 24.0 hours by TVA and discharged 5,702 yards to the Rim Ditch.
- Rim Ditch operation was continuous throughout the week with settled fly ash dipping performed by two excavators on both shifts and three Excavators required during peak operation. Truck haulage estimate of

Rim Ditch processed yards is 34,884 for the week.

- Sluice Trench dipping during the week was performed by Severson with two excavators for a total of 20 excavator hours, by TVA Clam Shell Crane for 15 hours, and by the TVA dragline for a total of 5 hours. Truck haulage estimate of Sluice Ditch captured ash was 9,792 yards for the week.
- Severson collected NTU and TSS samples on weekdays from the Sluice Trench discharge. A review of their sampling method was performed and indicated that the sample collection method could be improved. The sampling SPA is being modified for the new sample collection method.
- Sampling was performed at 9 locations throughout the ash processing system during the week. Initial results indicate that during the week the Rim ditch was removing 50% of the dredged ash and the Sluice trench another 15%. Sluice trench removal improved after the trench excavation by Severson on Wednesday and the resumption of TVA cleaning.
- Contingency planning to maximize dredging rates was a major work area during the week and several modifications to the dredge plan were implemented. Additional pipelines to facilitate the use of standby and supplemental dredges were designed and pipe ordered with pipeline construction to begin September 8th. The TVA 14" dredge is being readied to install when a pipeline connection is available. Severson has placed an order for a 16" dredge.

ASH DISPOSITION

- Continued to load rail cars and ship the ash to the landfill in Alabama.
- Loaded and moved 7 unit trains this week.
- Have loaded and transported 54 unit trains to date.
- Loaded and transported approximately 67,759 tons of ash this week, for a total of approximately 477,040 tons.
- The test of loading 110 car unit trains went well. Will continue testing next week.

CENOSPHERE RECOVERY

- Outreach calls from local residents are minimal.
- The TVA tug and barge-mounted excavator returned downriver to continue debris removal. The tug was assisted by SWS boat crews.
- Three of the six barge-mounted vacuum units were demobilized. This reduced the number of SWS personnel by 16, which reflects about a 25% reduction.
- The three barge-mounted vacuum units worked in Division A removing cenospheres. There was a noticeable increase in cenospheres over the weekend. The current boom placement worked well in containing the cenospheres in Division A.
- Continued collecting cenospheres on site around the ash, stilling and clean water ponds. Two vacuum trucks are being used in conjunction with CPG activities to assist with the cenosphere recovery. Additional pumps are being used to move cenospheres to collection points.
- Bids for the excavator RFP are due September 9th.

SKIMMER WALL

- Continued to work with Worley Parson and TVA plant personnel on addressing navigation lighting on the new skimmer wall and approving construction drawings.

DIKE REINFORCEMENT

- Continued with the design for the Dike C buttress. Stantec attended a field walk with Civil Projects to finalize the constructability of the Dike C buttress in the Northern Section. The Bureau of Reclamation and TDEC were on the site walk.
- A meeting was held to discuss the use of geotextile instead of sand as part of the Dike C buttress. Discussions are ongoing between BOR and TVA. TVA to resolve determination with the BOR.
- Jacobs continued to monitor the dikes at Kingston on a daily basis. Monitoring includes the previously identified eleven seeps.

ROUTINE MONITORING

Surface Water Sampling

- Routine surface water fixed station monitoring occurred on Monday August 31 and Friday September 4. Samples for nutrient analyses were also collected on Monday August 31. Through August 17, 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.

- 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

- With the resolution of equipment issues, gravity coring will be resumed the week of September 7 to verify results obtained from sub-bottom profiling. In addition, vendor will be at the site the week of September 14 to demonstrate a Vibracore sediment sampler that is under consideration for purchase.
- The sub-bottom profile crew collected data at the mouth of the Little Emory River to determine the presence or absence of ash. The data are being reduced and interpreted, along with data reduction for other surveys.

Air Sampling

- All air monitoring results, including fixed-station and real-time monitoring results continue below ambient air quality criteria.
- Transition to the new air monitoring contractor, Shaw Environmental was completed on September 4. CTEH has demobilized with the exception of one individual who will continue to support data management for an interim period, as the details of migrating data to EPA's Air Quality System (AQS).
- The 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.

Biota Sampling

- A working session to discuss the results of the Oak Ridge National Laboratory (ORNL) fish health/bioaccumulation studies is planned for the week of September 14. Representatives from TVA, TDEC, TWRA, EPA, and USFWS have been invited to attend. This will also provide the opportunity to evaluate objectives for the planned fall sampling events.

FINAL REMEDIATION

- Received EPA and TDEC comments on the non-time critical removal action work plan. Set up a comment resolution discussion for September 8 and 9.
- Work continues on the EE/CA.

DREDGE CELL

- Approximately 21,500 cy of ash were placed in the dredge cell test area. Results continue to show minimal movement of the underlying ash.

COMMUNICATIONS

Communications

- Posted to TVA's Kingston Webpage: Weekly Progress Report, changed air sampling results formats, updated air test results, new photos, ORAU Health Screenings.
- Distributed Dredge Report to site workers.
- Continued to handle daily calls from the news media.

Outreach

- 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.
- Attended CAG meeting.

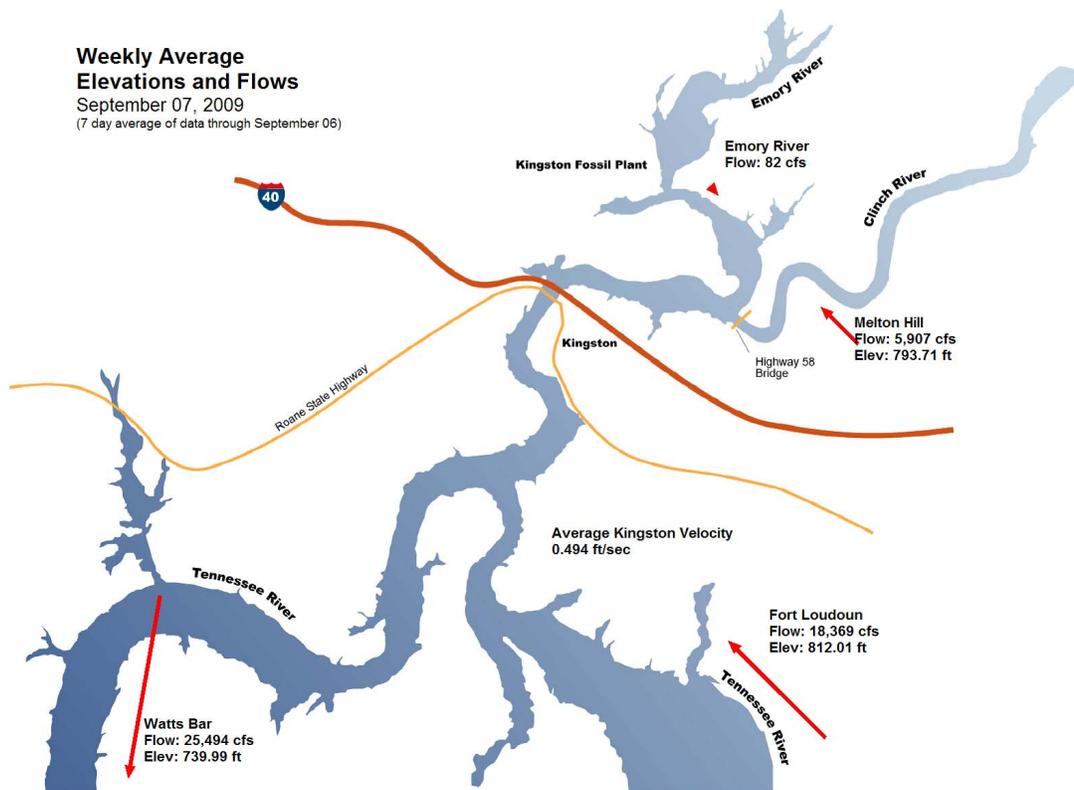
Valley/Government Relations

- Hosted Kingston Mayor Troy Beets and David Conner, Executive Director of the Tennessee County Commissioners Association on a tour of the recovery site.

RIVER OPERATIONS

Weekly Average Elevations and Flows

September 07, 2009
(7 day average of data through September 06)



MEETINGS/CONFERENCE CALLS

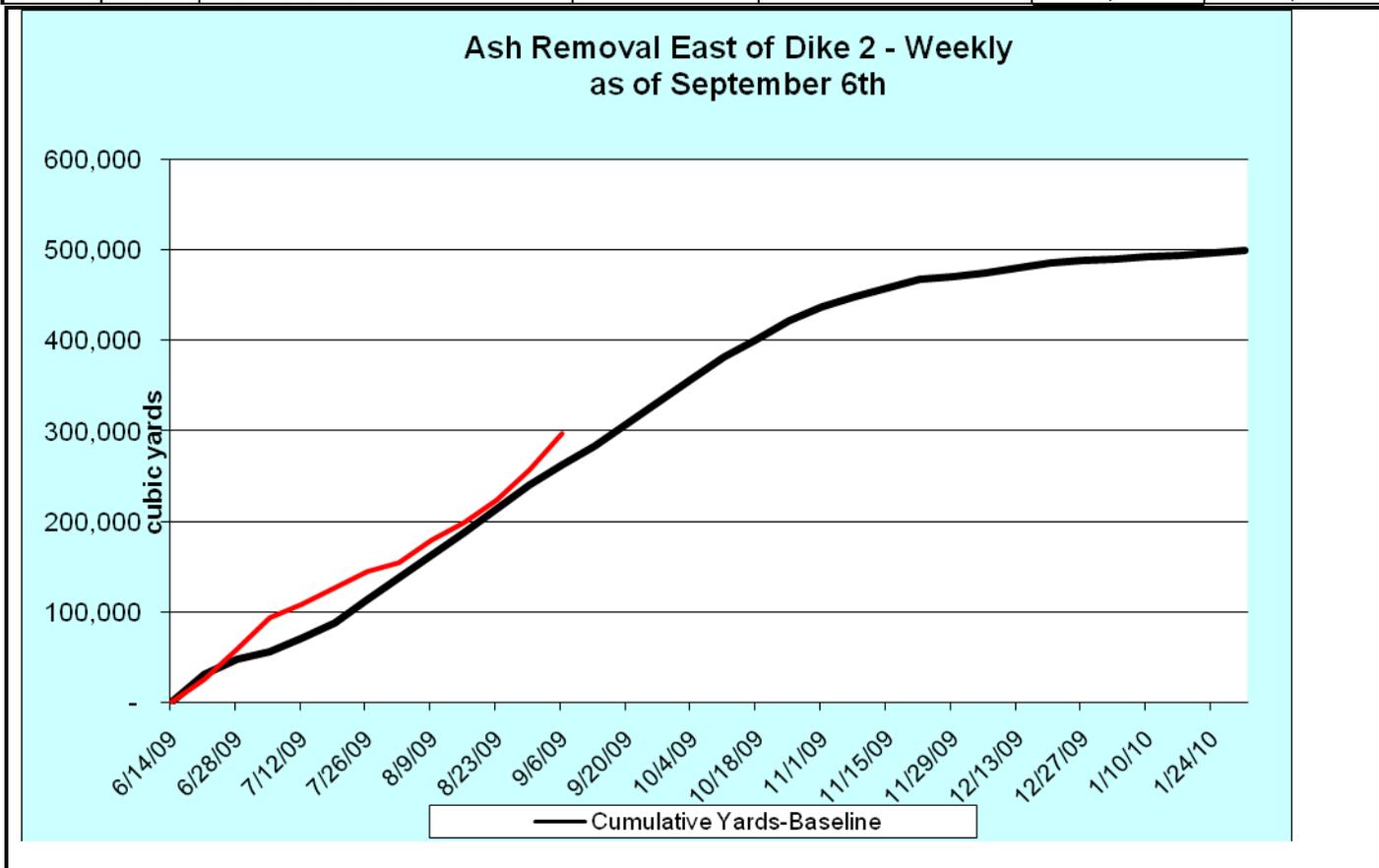
Date	Time	Subject
08	1000	Operation Life Saver Training (ICP Conference Room)
09/09	0800	Time Critical Weekly Meeting (ICP Conference Room)
09/09	0900	Data Management Meeting (ICP Conference Room)
09/09	1330	Test America Weekly Call (Conference Call)
09/09	1700	Pinkerton Training (ICP Conference Room)
09/10	0730	Environmental Meeting (ICP Conference Room)
09/10	0900	KIF SOP Meeting (Team Room)
09/10	1000	Pace Telecon (Conference Call)
09/10	1030	Data Management Meeting (Team Room)
09/10	1130	HSE Staff Meeting (ICP Conference Room)
09/10	1300	Jacobs Senior Staff Meeting (Team Room)
09/10	1400	SOPs (Team Room)
09/10	1530	Loading Coordinating Call (Team Room)
09/11	0800	Operation Life Saver Training (ICP Conference Room)
Daily	0730	Site Safety Orientation (Team Room)
Daily	1600	Planning Meeting (ICP Conference Room)

Kingston Recovery Project Field Report	Date: August 31 – September 6, 2009	Field Report
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Safety		Weekly Total	Cumulative Total
First Aid Incidents		0	19
Recordable Incidents		1	6
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)	580	78,605
Total	Tons of Light Debris	0	959.57
Cenosphere Slurry (gallons)		180,000	7,258,500

Environmental					
Org	Matrix	Weekly Samples Collected	Total # of Samples Collected to date	Sample results	
				received	Verified
TVA	Air - Real-Time (8/28-9/3)	3,007	101,159	101,159	101,159
TVA	Air – Analytical (8/28-9/3)	4	1547	1455	1,039
TVA	Surface/Utility Water	50	2534	2468	198
TVA	Ground Water (spring and well)	6	32	29	2
TVA	Ash	28	352	393	50
TVA	Soil/Sediment	62	141	180	9

Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards (8/28 – 9/4)			43,940	604,000
Ash Pond	Estimated Cubic Yards (8/28 – 9/4)			5,702	80,400
Stilling Pond	Estimated Cubic Yards			0	24,350
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume			39,700	297,800**
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume			0	0
Ash Disposal	Estimated Tons			67,759	477,040



River Dredging - Weekly
as of Sept . 6th

