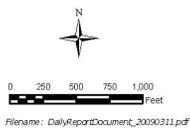


KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

July 6 – 12 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

July 6 - 12, 2009

HIGHLIGHTS

- Removed over 60,000 cubic yards of ash from the river via dredging.
- Removed over 22,000 cubic yards east of Dike 2.
- Began preparing a new approved temporary storage area west of Dike 2.
- Shipped approximately 34,000 tons of ash via rail offsite.
- TSS levels in the discharge from the embayment have dropped from 600-9000 mg/L to around 10 mg/L since the settling basins were put in operation last week.

INFRASTRUCTURE/ASH MANAGEMENT

Engineering

- Continuing electrical design for the car wash – working with TVA on electrical requirements.
- CTI (Utilities Engineer) continuing the engineering of the utility enhancements.
- Issued numerous task orders in support of the site HAZWOPER requirements.

Utilities

- No construction activities at this time.

Water Management

- Continued excavating the clean water ditch from east of Dike 2 to the river.
- Worked in the East Embayment constructing the clean water ditch. Stockpiling ash on the south side of the embayment to be moved for disposal.
- Continued work on the dirty water ditches in the north embayment.
- 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

- 5 acres of Flexterra applied this week.
- 365 acres of Flexterra applied since January 31, 2009
- Continuing operating water trucks on roads and around ash piles as needed for dust control.
- Evaluating results of calcium chloride that was applied along the roads on Dike C as a test to determine possible long term use. Short term results are positive. Looking at potentially applying to other roads.
- Working with TVA personnel on additional short and long term remedies for dust control – seeding, alternatives to Flexterra, and misters.

Ash East of Dike 2

- Continued moving ash from east of Dike 2 to storage areas. Moved approximately 22,300 in-place cubic yards this week.
- Began preparation of the new temporary storage area west of Dike 2.

Miscellaneous

- Continued installation of snow fence, signage, and support areas in preparation for implementation of the HAZWOPER site.
- Continued building the new construction entrance off of Swan Pond Road.
- HAZWOPER requirements in full force – more stringent requirements for personnel and vehicles entering and exiting the site. Have both personnel and equipment decontamination stations strategically located around the site.
- Redesigned support areas adjacent to air monitoring station 7 to address EPA/TDEC concerns.

ASH DREDGING & PROCESSING

- Worked through issues pertaining to draft contract with the new dredging and processing contractor and Severson Environmental Services. Contract expected to be signed by July 13, 2009.

- Severson continued mobilization including a trailer, heavy equipment, and a conveyor system they will be testing for ash transport.
- Removed approximately 57,399 CY from the River by hydraulic dredging and approximately 2,954 CY from the River via mechanical dredging
- Issued work order to CPG so they can begin dipping ash (via both a crane and dragline) from the sluice trench beginning July 13, 2009.
- Advanced discussions with Geosyntec and Severson in attempt to finalize a design for Rim Ditch repairs.
- Submitted Draft Work Plan and received TVA comments for Severson's plan to add weirs to the Rim Ditch in an effort to increase solids settling in anticipation of increased dredging volumes.

ASH DISPOSITION

- Continuing to load rail cars and ship the ash to the landfill in Alabama.
- Loaded and moved 4 - 85 car unit trains this week. Continuing to work to refine the systems required to efficiently move the ash to the landfill.
- Loading approximately 100 tons of ash per rail car.
- Have loaded and transported and unloaded in the landfill approximately 34,000 tons of ash.
- MACTEC and Norfolk Southern continuing to work together on design of a tarp for the rail cars.
- Work continues to improve rail car loading rate.

CENOSPHERE RECOVERY

- Utilized a long reach excavator to remove cenospheres from the sluice channel.
- VAC trucks on plant were reduced to one TVA operated vacuum truck.
- Continued to work down stream in the area of Tennessee River Marker TRM-548, as well as areas in the Clinch and the Emory.
- The EPA, with the assistance of the Coast Guard, is patrolling the rivers for cenospheres. The EPA provided a map of the locations having some amounts of cenospheres. The locations are being incorporated into the existing outreach procedure.
- Residential outreach calls continue to come in at about one per day. Response time to these calls is approximately one day. The major effort is focused on tracking and collecting cenospheres from locations identified by the EPA.
- Received and set up the second barge set purchased by TVA.
- Set up a pump at the plant intake to remove cenospheres from this area. There are still several issues with the setup, but it is hoped that by using the pump in this location, the vacuum truck assigned to this area can now move to other locations around the ponds.

SKIMMER WALL

- Monitored turbidity data for the week with no significant spikes of turbidity in the intake channel or in the discharge.
- Final drawings have been submitted to the Plant for sign-off. There are several questions regarding the impact of the caissons on flow in the intake channel. It is hoped to have these questions answered for the Plant next week.

DIKE REINFORCEMENT

- Continued working on final report for Dike C stability.
- Continued working on the stability report for Dike D and Dike 2.
- Continued to monitor the eleven seeps along Dike C. It appears the seeps are stable. With the lack of rains over the past several days, the seeps are shrinking in size. Monitoring of the seeps will continue.
- Coordinated on site meetings between the Bureau of Reclamation (BOR) and TVA's geotechnical subcontractors, Stantec and Geosyntec. The BOR seemed satisfied with actions taken and await the report on dike stability scheduled to be available July 24th.
- BOR looked at the seeps and concurred that TVA was taking due diligence with the monitoring and agreed the monitoring could be reduced to weekly. Internal discussions will need to be conducted as to when monitoring will be reduced to weekly.

ROUTINE MONITORING

Surface Water Sampling

- Routine surface water fixed station monitoring occurred on Monday, Wednesday, and Friday, July 6th, 9th, and 10th. Samples for nutrient analyses continued with the weekly sampling event performed on Wednesday. Through June 22nd, there have been no ash-related constituents detected above any criteria (i.e., ambient water quality, domestic water supply). Since the May 4, 2009 Emory River high flow event, the total suspended solids (TSS) concentrations have been consistently less than 20 mg/L.
- Monitoring of surface water from dredging plumes and at the embayment continued on a daily basis. Since the settling basins have been put in operation, the TSS in the discharge has dropped from the hundreds to 10 mg/L or less.
- A revised Surface Water Sampling Plan is in preparation pursuant to approval of the Action Memo.

Air Sampling

- All air monitoring results, including fixed-station and real-time monitoring, continue to have results below ambient air quality criteria. One exceedence of the 150 µg/m³ ambient air particulate standard was recorded by a real-time instrument on July 9 at the intersection of Highway 70 and Swan Pond Road. The measurement is not believed to be site-related and the data and observations are being evaluated further.
- Four proposals were received on July 8th for the re-bid of the air monitoring contract and are under evaluation.
- The air monitoring plan is under revision to reflect comments from TDEC and EPA.

Data Management

- The priority list for data validation is being worked off and is on track to be completed in support of the EE/CA activities.
- Electronic data packages continue to be received from the metals re-analysis of surface water samples collected in January and February 2009. This data set is nearly complete for verification.
- Data validation continues for electronic data packages received from the laboratories. As verified packages are received, they are being posted to the password protected website for regulator review.

Biota

- Several fish that did not survive the East Embayment relocation operation are being prepared for shipment to Pace Laboratories. Splits will be prepared for analysis by ORNL and TWRA.

FINAL REMEDIATION

- Draft sections for the non-time critical work plan were developed and assembled. These included sections on data collected to date and screening level ecological and human health risk assessments.
- Additional questions from TDEC were answered on the embankment test plan in the failed dredge cell. Still waiting on approval of the test plan.

SAFETY

- 87 site specific HSE orientations conducted for the week, 472 to date.
- 1 Safety Observation Report submitted for the week; 70 to date; 47 of which have been closed.
- Week 7 of Hazwoper training complete, 283 personnel trained to date.
- Hazwoper site control measures being utilized and refined. Overall site control measures and improvements are effective. Further improvements expected as issues are identified and resolved.
- July 11: First aid incident reported as a result of an individual falling while trying to handle a light weight trailer for movement. Minor abrasions treated by on site EMT.
- June 11: First aid incident reported when truck driver fell while starting to step into the cab of the dump truck he was driving for the day. The bottom step broke loose from the truck as he placed his right foot onto the step. His elbows and knees struck the truck frame before he hit the ground. Minor bruising and scrapes treated by the on site EMT.

COMMUNICATIONS

Communications

- Posted to TVA's Kingston Webpage: Updated Air Sampling Results, Updated Water Sampling Results, and ORAU Issues Call for Proposals for Coal Ash Research.
- Continued to handle daily calls from the news media.

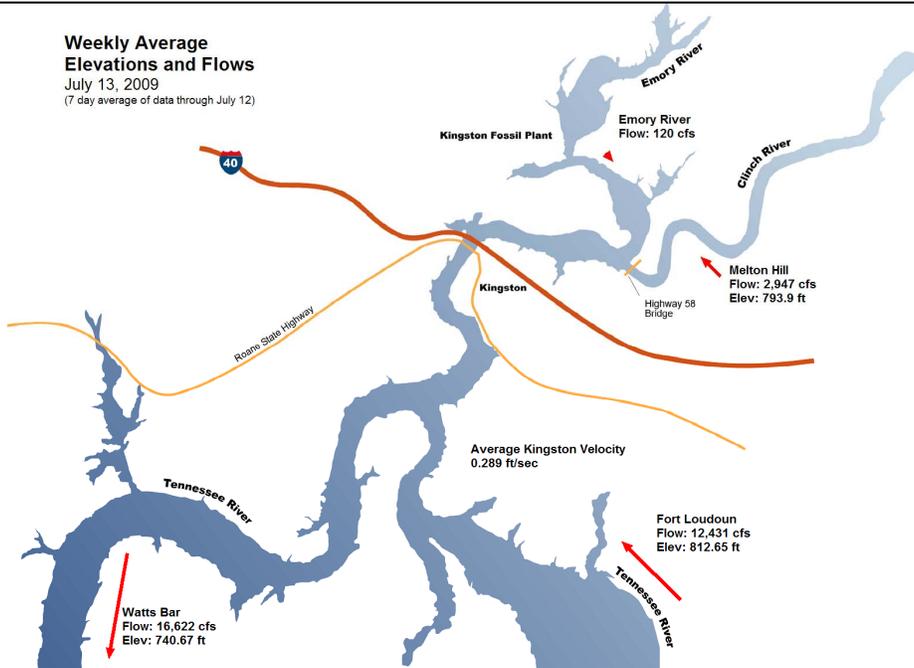
Outreach

- Installed new electronic traffic sign on Swan Pond Circle.
- 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

- Conducted briefing and tour for Association of Tennessee Valley Governments.

RIVER OPERATIONS



MEETINGS/CONFERENCE CALLS

Date	Time	Subject
07/13	0800	Time Critical Meeting (ICP Conference Room)
07/14	1000	Project Managers Weekly Meeting (Team Room)
07/14	1300	Weekly Dredging Meeting (Team Room)
07/14	1400	Dike Stability Meeting (Team Room)
07/15	0800	Time Critical Meeting (ICP Conference Room)
07/15	1100	Communications Meeting (ICP Conference Room)
07/16	0900	Dredge Cell Test Team Meeting (ICP Conference Room)
07/16	1130	HSE Staff Meeting (ICP Conference Room)
07/16	1400	Ash Disposal Ops Weekly Meeting (ICP Conference Room)
07/17	0800	Time Critical Meeting (ICP Conference Room)
07/17	0900	Infrastructure Weekly Meeting (Team Room)
Daily	1200	Ammonia Training (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)	759	70,240
Total	Tons of Light Debris	0	959.57
Cenosphere Slurry (gallons)		30,000	6,175,500

Environmental					
Org	Matrix	Weekly Samples Collected	Total # of Samples Collected to date	Sample results	
				received	Verified
TVA	Air - Real-Time (6/29 - 7/2)	5,706	69,868	69,868	69,868
TVA	Air – Analytical (6/29 - 7/2)	12	1479	1,387	1,039
TVA	Surface/Utility Water	76	1,962	1,816	198
TVA	Ground Water (spring and well)	0	24	29	2
TVA	Ash	21	194	160	50
TVA	Soil/Sediment	0	79	126	9

Ash Dredging & Excavation				Weekly Total	Cumulative Total
River	Estimated Cubic Yards			60,353	417,852
Ash Pond	Estimated Cubic Yards			0	45,000
Stilling Pond	Estimated Cubic Yards			1,058	20,116
Ash Excavation (east of Dike 2)	Estimated Cubic Yards **Modified to an in-place volume				93,100**
Ash Excavation (other)	Estimated Cubic Yards **Modified to an in-place volume			0	73,000**
Ash Disposal	Estimated Tons			33,915	50,230

