

KINGSTON ASH RECOVERY PROJECT WEEKLY REPORT

November 1-7, 2010

Aerial Image of Kingston Ash Slide (10/21/2010)



Date of imagery: 10/21/2010
Surrounding area: 07/23/2010

Tennessee Valley Authority
Geographic Information & Engineering

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KINGSTON ASH RECOVERY PROJECT

WEEKLY REPORT

November 1-7, 2010

HIGHLIGHTS

- To date, 395 unit trains have been loaded, and over 3.8 million tons of ash have been transported to the landfill in Uniontown, Alabama.
- Construction on Segment C resumed with buttressing of the bench area. Approximately 120' of bench was completed. The project is 40% complete.

SAFETY

- Two (2) site specific HSE orientations were conducted for the week – 1,729 to date. One hundred ninety-seven (197) HSE site orientation refresher courses have been conducted to date.
- Seventeen (17) Safety Observation Reports were submitted for the week – 1,537 to date; 1,529 have been closed.
- No incidents or injuries reported.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Continued recovering cenospheres from the onsite ponds.
- Mayse Construction completed installing utilities to the approaches of Swan Pond Circle Road underpass bridge. The utility project is 99% complete.

ASH DREDGING & PROCESSING

- Jacobs continued preparation of the On Scene Coordinator (OSC) Report for the time-critical removal action.

ASH DISPOSITION

- Six (6) unit trains were loaded and transported this week.
- Due to the cold and wet weather forecast, polymer addition to all rail cars was initiated during the week.
- Continued to work with the Plant to minimize the impact of the delivery of coal trains, limestone cars, ammonia cars, and the loaded and empty ash trains.
- The MACTEC demobilization plan has been approved by EPA. The heavy equipment demobilization work package was submitted by MACTEC and approved. Two additional demobilization related work packages are being processed for approval.
- The fourth demobilization planning meeting was held on November 2nd and the action item list updated for progress to date.

SKIMMER WALL

- Aquarius Marine, LLC completed setting of concrete panels in place in Bay #1 and #2 of the Skimmer Wall and setting caisson #3 sheet piling template. Caisson #3 Tremie concrete pour is scheduled for Friday, November 12th. The project is 65% complete.

DIKE REINFORCEMENT

- Stantec continued to work on finalizing design efforts for the buttress.
- Jacobs continued to monitor the dikes at Kingston on a daily basis.

ROUTINE MONITORING

Surface Water Sampling

- The final round of sampling for the river system engineering evaluation/cost analysis (EE/CA) surface water sampling task was completed on Tuesday, October 19th, and Wednesday, October 20th, at 11 locations on the Emory, Clinch and Tennessee Rivers. This task is also incorporated into the approved Non-Time-Critical Removal Action (NTCRA) Surface Water Monitoring Plan that became effective with the completion of all ash removal activities on the Emory River. In consideration of toxicity testing laboratory schedules, the final round of bulk water sampling for toxicity testing was performed on November 2nd. Surface water sampling for all other analyses specified in the EE/CA sampling and analysis plan is complete
- Automated samplers have been deployed at two locations in the Clinch River, three locations in the Emory River, and in the Swan Pond Embayment Clean Water Ditch in accordance with the NTCRA Surface Water Monitoring Plan. The samplers on the Emory and Clinch Rivers will be activated whenever local rainfall exceeds 1.0" in a 24-hour period and/or flow on the Emory River at Oakdale exceeds 10,000 cubic feet per second (cfs). The automated sampler in Swan Pond Embayment is activated whenever local rainfall exceeds 0.5" in a 24-hour period. There were no rainfall events during the week of November 1 that required activation of the automatic samplers.
- Swan Pond Embayment surface water sampling continues routinely once per week at two locations along the Swan Pond Embayment drainage. A weekly Stilling Pond sample is also being collected.

Sediment Sampling

- None to report.

Air Sampling

- All air monitoring results from TVA air samplers were below the current Ambient Air Monitoring Plan (AAMP) action levels.
- TVA operates five PM2.5 Beta Attenuation Monitors (BAMs) and one PM10 Tapered Element Oscillating Microbalance (TEOM) 24/7 at fixed stations encircling the KRP. These monitors output hourly gravimetric PM concentrations. BAM gravimetric PM concentrations are posted to the KRP regulator's webpage. TVA also collects filters for PM2.5 gravimetric lab analysis from one BGI sampler, filters for metals analyses from two HiVolume PM10 samplers and two Total Suspended Particulate (TSP) samplers, and filters for silica analysis from two low volume SKC samplers. All the filter samplers are 24-hour samples, located at PS07 (peninsula next to east embayment), and follow the 1/3 day EPA air quality schedule.

Data Management

- Electronic data deliverables are flowing into the Equis database.
- Data validation continues for electronic data packages received from the laboratories.
- Migration of data from the TVA Equis to the EPA SCRIBE database is ongoing.

Biota Sampling

- Raccoon sampling continues in conjunction with the University of Tennessee.

River System EE/CA Sampling and Analysis

- Ash deposition and submerged sediment sampling was initiated on October 18th, beginning in the Tennessee River. Sampling will continue into the month of December.

Non-Routine Sampling

- None to report.

DREDGE CELL

- Civil Projects continued to stack ash in the central Dredge Cell on Monday and Tuesday; wet weather prevented ash stacking the remainder of the week.

PLANT ASH DISPOSITION

- Civil Projects operated the sluice trench and ash pond areas to process plant-generated ash for disposal.

EMBAYMENT ASH PROCESS

- MidState Construction/Rogers placed asphalt on Swan Pond Circle Road and grooved the bridge deck. Tom Hamby, Roane County Highway Commissioner, inspected the road and bridge construction and found all acceptable. Mr. Hamby agreed to accept the road and bridge as soon as the guardrails are installed and striping has been completed next week.
- TVA Civil Projects continued to excavate ash from the Middle Embayment and hauled to the Dredge Cell.
- TVA Civil Projects continued to perform ash consolidation in the North Embayment areas.

COMMUNICATIONS

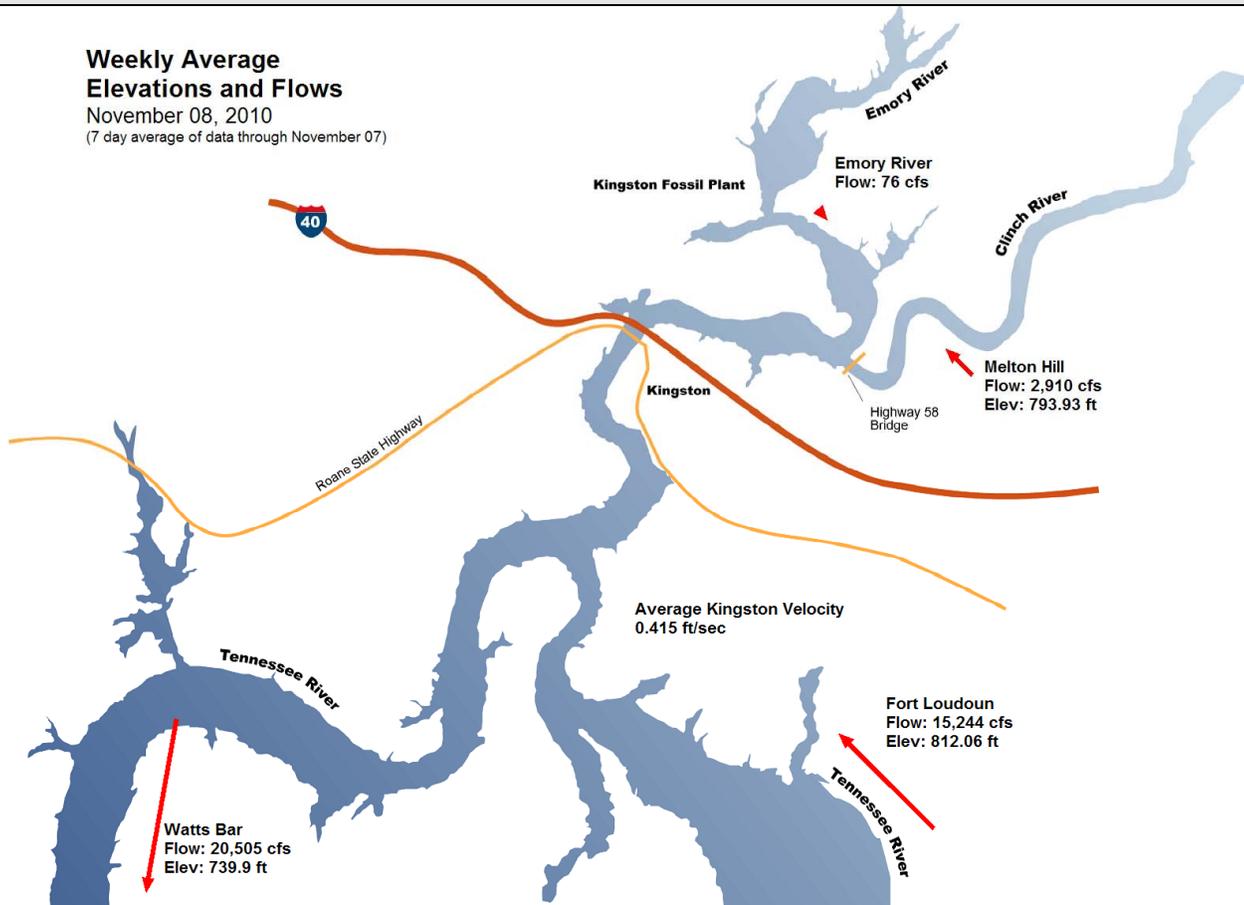
Communications

- Posted to the website: Scrubber Resuming Service Notice, Bridge Construction Information Update, Weekly Report and Weekly Area Resident Update.
- Sent the weekly update to the CAG, public officials and members of the public who have signed up to receive weekly emails.

Outreach

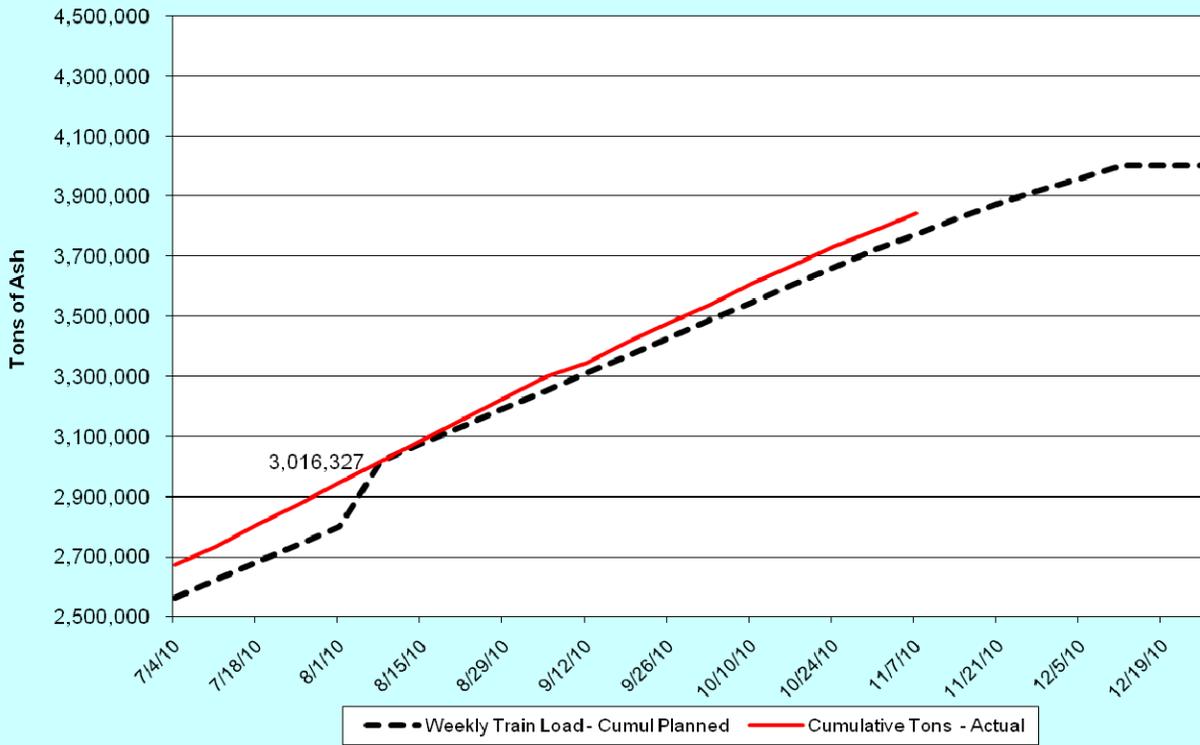
- Provided updates to employees, customers, residents, and public officials of site activities.
- Continued planning for the second in a series of classes as part of site Educational Initiative at Roane County and Harriman High Schools.
- Held TVA's Day of Caring in association with the Combined Federal Campaign. Volunteers painted at Ridgeview Resources for Living in Harriman.
- Continued preparation for site luncheon to mark the end of train shipments to Alabama.
- Updated the Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.

RIVER OPERATIONS



| Kingston Recovery Project | | Date: November 1-7, 2010 | | Field Report | |
|--|---|--------------------------|------------------|---------------------|------------------------------|
| Safety | | | | Weekly Total | FY - Cumulative Total |
| Near Misses | | | | 0 | 0 |
| First Aid Incidents | | | | 0 | 0 |
| Recordable Incidents | | | | 0 | 0 |
| Recordable Lost Time Incidents | | | | 0 | 0 |
| Environmental | | | | | |
| Org | Matrix | Samples* | Analyses* | Results* | |
| TVA | Air - Real-Time (Final) | -- | -- | 267,188 | |
| TVA | Air - Fixed | 3,300 | -- | 4,836 | |
| TVA | Surface/Utility Water | 4,896 | 43,036 | 209,563 | |
| TVA | Ground Water (spring and well) | 128 | 1,413 | 5,781 | |
| TVA | Ash | 78 | 104 | 1,689 | |
| TVA | Soil/Sediment | 307 | 586 | 4,486 | |
| TVA | Biota | 2,129 | 4,614 | 56,799 | |
| *Week Ending 11/04/10 | | | | | |
| Ash Removal | Time-Critical | | | Weekly Total | Cumulative Total |
| River Dredging | | | | NA | 2,772,786 |
| East of Dike 2 | | | | NA | 736,691 |
| Ash Movement to Ballfield | Time-Critical | | | | |
| Sluice Trench | Estimated CY (modified to an in-place volume) | | | 8,130 | 138,898 |
| West Storage | Estimated CY (modified to an in-place volume) | | | 0 | 198,664 |
| Dredge Cell (Cell 1) | Estimated CY (modified to an in-place volume) | | | 30,731 | 362,862 |
| Dredge Cell (Test Embankment Cell 3) | Estimated CY (modified to an in-place volume) | | | 0 | 147,816 |
| Lateral Expansion (Cell 4) | Estimated CY (modified to an in-place volume) | | | 0 | 38,190 |
| Ash Excavation (Mid-Embay to Ballfield) | Estimated CY (modified to an in-place volume) | | | 0 | 2,000 |
| Ash Disposal | Time-Critical | | | Weekly Total | Cumulative Total |
| Ash Disposal | Estimated Tons | | | 43,760 | 3,837,874 |
| Ash Removal / Excavation | Non-Time-Critical | | | Weekly Total | Cumulative Total |
| Middle Embayment | Estimated CY (modified to an in-place volume) | | | 12,533 | 218,559 |
| North Embayment | Estimated CY (modified to an in-place volume) | | | 0 | 0 |
| From Dredge Cell | Estimated CY (modified to an in-place volume) | | | 0 | 7,150 |
| From West Storage (TC) | Estimated CY (modified to an in-place volume) | | | 0 | 23,896 |
| From Mid-Embay to Ballfield | Estimated CY (modified to an in-place volume) | | | 0 | 2,000 |
| Ash Stacking | Non-Time-Critical | | | Weekly Total | Cumulative Total |
| Subgrade Recontouring Central Dredge Cell (Cell 3) | Estimated CY (modified to an in-place compacted volume) | | | 0 | 41,444 |
| Ash Stacking Central/North Dredge Cell (Cells 2 & 3) | Estimated CY (modified to an in-place compacted volume) | | | 10,554 | 175,293 |

Ash Loading to Trains - Weekly
as of November 7th



Ash Excavation from Embayments - Weekly
as of November 7th

