

TVA Kingston Coal Ash Release

Fact Sheet



Revised as of May 20, 2010

The Tennessee Department of Environment and Conservation continues to work in cooperation with the U.S. Environmental Protection Agency to provide oversight at the TVA Kingston spill site and to ensure the provisions in the TDEC Commissioner's Order are fully met. The department provides updates on progress at the site in monthly newsletters, on the website at www.tn.gov/environment/kingston, and through involvement in public meetings, among other tools.

- **TVA ACTION MEMORANDUM RELEASED**

TVA released its Action Memorandum on Tuesday, May 18, 2010. The Action Memo was approved by the U.S. Environmental Protection Agency in consultation with the Tennessee Department of Environment and Conservation. The cleanup plan requires restoration of the Swan Pond Embayment and requires TVA to permanently store on-site all of the ash being removed from the embayment area in an engineered perimeter dike. The dike will be constructed in the same footprint as the failed dredge cells, but will be re-engineered and reinforced. The subsurface layers will consist of overlapping soil-cement columns extending 60-70 feet below the ground, with an above-surface soil berm.

The final height of the disposal area will be approximately 30 feet lower than the previous landfill. Once the ash disposal is completed, the site will be covered with two feet of clay, topsoil and vegetation. It will be regularly inspected for stability and will undergo long-term groundwater monitoring.

The cleanup plan outlined in the Action Memorandum is one of three alternatives proposed earlier this year as part of the Engineering Evaluation/Cost Analysis Report (EE/CA). Public comment was solicited as part of the EE/CA process and TVA's responses to comments are an appendix to the Action Memo. A link to the document is available on TDEC's website at http://tn.gov/environment/kingston/community_guidance.shtml. TVA is accepting public comments on the Action Memo itself through June 18.

- **DREDGING AND RIVER CLOSURE UPDATE**

Dredging in the river has wound down and now consists of removal of identified pockets of ash. Currently, there are two mechanical dredges between Emory River Mile (ERM) 6.0 and ERM 4.0, and four hydraulic dredges between ERM 4.0 and ERM 1.9. The hydraulic dredges have dredge lines across the river, which can be hazardous to recreational users. Therefore, the decision was made that in the interest of public safety, the river closure would be extended until 7 a.m. on Saturday, May 29, 2010. This will give the dredging contractor time to complete work with the hydraulic dredges, then pull the dredge lines to the south dock for removal from the river.

The mechanical dredges are barge-mounted and excavated material is placed on another barge. Relocation of this equipment will take minimal time and all dredging that is impacting the public's access to the river is expected to be completed by the end of the day on Friday, May 28.

A link to the river advisory is available on EPA's website at <http://www.epakingstontva.com/default.aspx>.

- **AIR MONITORING STATION RELOCATION COMPLETED**

One of the activities taking place under the non-time critical cleanup phase is the excavation of ash and the segregation of clean water from dirty water in the North Embayment (Berkshire Slough). TVA submitted, and EPA and TDEC approved, a work plan for this activity. Air Monitoring Station Number 6 was moved to the north end of the North

Embayment to better monitor work in the area. It is now Air Monitoring Station Number 13.

The North Embayment work plan, and the memo regarding the relocation of the air monitoring station, is available on the TDEC website at www.tn.gov/environment/kingston, then click on "Community Guidance." The documents are also available on EPA's TVA Kingston website, www.epakingstontva.com.

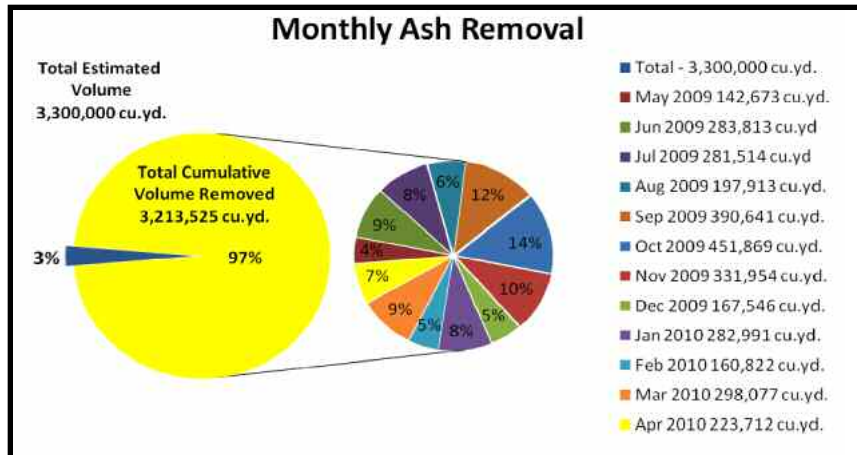
• SITE STATISTICS UPDATE

Approximately 3.2 million cubic yards of the estimated 3.3 million cubic yards of the ash released into the Emory River and Swan Pond Embayment have been recovered and removed from the water. River dredging operations and excavating from dry areas continues on-site. Approximately 1.6 million cubic yards have been shipped off-site by rail for disposal in an approved landfill in Alabama.

Time Critical Ash Removal

Goal = 3.3 million cubic yards by Spring 2010 at 10,000 cubic yards/day removal rate.
4/31/10 (YTD) = 3,213,525 cubic yards (2,454,676 from river and 758,849 from embayment)
4/1-31/10 = 223,712 cubic yards removed in 26 workdays = 8,604 cubic yards daily average

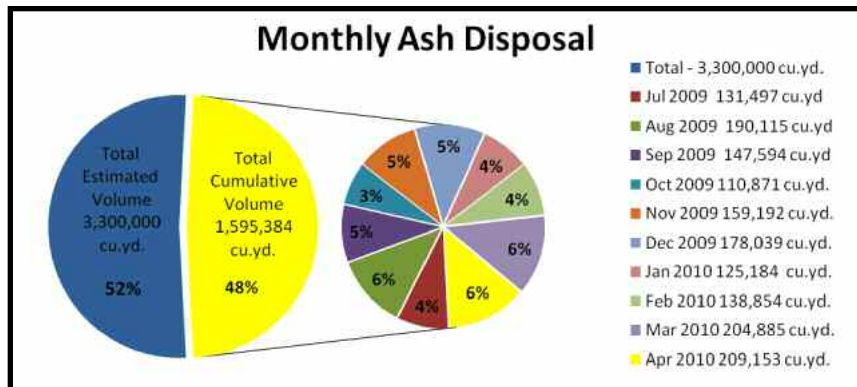
Estimated completion of time critical ash removal is May 2010 based on 86,475 cubic yards remaining at a removal rate of 5,000 cubic yards per day (six workdays per week).



Time Critical Ash Disposal

Goal = 3.3 million cubic yards disposed off-site by Fall 2010 at 10,000 cubic yards/day shipping rate
4/31/10 (YTD) = Shipped 1,595,384 cubic yards (converted using 1.3 tons per cubic yard)
4/1-31/10 = Shipped 209,153 cubic yards in 26 workdays = 8,044 cubic yards daily average

Estimated completion of time critical ash disposal is December 2010 based on 1,704,616 cubic yards remaining at 10,000 cubic yards/day shipping rate (six workdays per week).



- **SITE SAFETY**

With dredging nearing completion, some activities guided by the “time critical” process have begun demobilization. TVA’s safety officers are reviewing demobilization plans and overseeing the process to ensure all the work is done in compliance with the Site Health and Safety Plan.

- **GYPSUM STILLING POND UPDATE**

Unrelated to the ash spill, but related to the ongoing operations at the Kingston Fossil Plant, the installation of the liner in the gypsum stilling pond, also referred to as the stormwater pond, is now complete. TVA submitted, and TDEC has reviewed and approved, as-built documentation for the gypsum stilling pond. It is now cleared for use.

- **COMMUNITY ACTIVITIES**

TDEC continues to attend and participate in the Long Term Recovery Committee and the Community Action Group meetings along with EPA and TVA. A schedule of upcoming community outreach events for the Kingston Ash Recovery Site, in which TDEC will participate, is as follows:

May 20, 2010 – Public Meeting, Roane County High School, 5:30 p.m.

- **MONTHLY UPDATES**

TDEC is compiling a monthly update as an additional tool to provide the community with information related to TDEC’s role in the ongoing monitoring and cleanup at the TVA Kingston site. The newsletter is available the middle of each month on TDEC’s TVA Kingston Update website at www.tn.gov/environment/kingston.

Interested parties may also request an e-mail copy by contacting Ask.TDEC@tn.gov and including “TVA Kingston Monthly Newsletter” in the subject line.

CONTACT INFORMATION

If you have any questions or need additional information, please feel free to call TDEC’s On-scene Coordinator at the Kingston Recovery Site, Barbara Scott. You can reach her at 865-230-1211, or by e-mail at Barbara.Scott@tn.gov.

TDEC has additional information and monitoring data on the department’s TVA Kingston Update Web page at www.tn.gov/environment/kingston.

