



Kingston Monthly Update

January 15, 2010

The Tennessee Department of Environment and Conservation (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. We welcome feedback from the community regarding this report and its usefulness so we may evolve it to meet the community's needs. The newsletter will be available the middle of each month on TDEC's TVA Kingston Update Web site at www.tn.gov/environment/Kingston. Interested parties may also request an email copy by contacting Ask.TDEC@tn.gov and including "TVA Kingston Monthly Newsletter" in the subject line.

GYPSUM POND UPDATE

As included in the Dec. 17, 2009 Monthly Update, the department's Division of Water Pollution Control issued a Notice of Violation on Nov. 25, 2009, for a loss of water from the Flue Gas Desulfurization Stormwater Pond. This pond is sometimes referred to as the gypsum stilling pond, and it is separate from the gypsum pond itself. The NOV cites TVA for failing to make timely notification of a possible leak as required by permit, and for an unpermitted discharge. It requires investigation and corrective action. The department has received investigative information from TVA titled, "Storm Water Pond Leakage Evaluation," and "Storm Water Detention Pond Liner Design." These documents have been reviewed and approved. They are available for public viewing on the Community Guidance page of TDEC's TVA Kingston Update Web page at www.tn.gov/environment/kingston/community_guidance.shtml. As indicated previously, the NOV is posted on the same Web page.

Additionally, prior to using the gypsum pond itself, which is sometimes referred to as the gypsum disposal area, TVA must submit and TDEC must approve a Construction Quality Assurance report. This report is a third-party engineering report certifying the structure is built in accordance with the solid waste permit requirements. TVA submitted a CQA report, and TDEC requested additional information to complete the review. TDEC's Division of Solid Waste Management will complete the CQA report review once the additional information is received.

The gypsum pond cannot be used until the complete CQA is received and approved. The stilling pond cannot be used until corrective action plans are implemented. Corrective action includes the installation of a liner.

The gypsum pond and stilling pond are unrelated to the ash spill, but related to ongoing operations at the Kingston facility. Emissions will continue through the use of the tall stacks when the plant is in production until the gypsum system is approved for use.

SITE RESPONSES TO COLD TEMPERATURES

In response to recent cold temperatures, the TVA Kingston facility went online beginning Jan. 3, 2010. A member of the Department of Environment and Conservation's Division of Air Pollution Control was present at the start up. Some limited rust scale was observed on TVA property. TDEC personnel did not find evidence of deposition off TVA property.

Dusting of dry, frozen ash has been a concern with the recent cold temperatures. In order to combat this, TVA has been spraying Flexterra at the site. Water trucks' piping systems have been heat wrapped to combat freezing so the ash could continue to be sprayed. The wheel washer, which had experienced some issues with freezing, was moved under a tent to provide some insulation.

Additionally, off-site disposal has slowed with the onslaught of freezing temperatures in Alabama. There is a backlog of trains waiting to be washed at the Perry County landfill. Trains cannot be sent back to Tennessee for reuse without being properly washed.

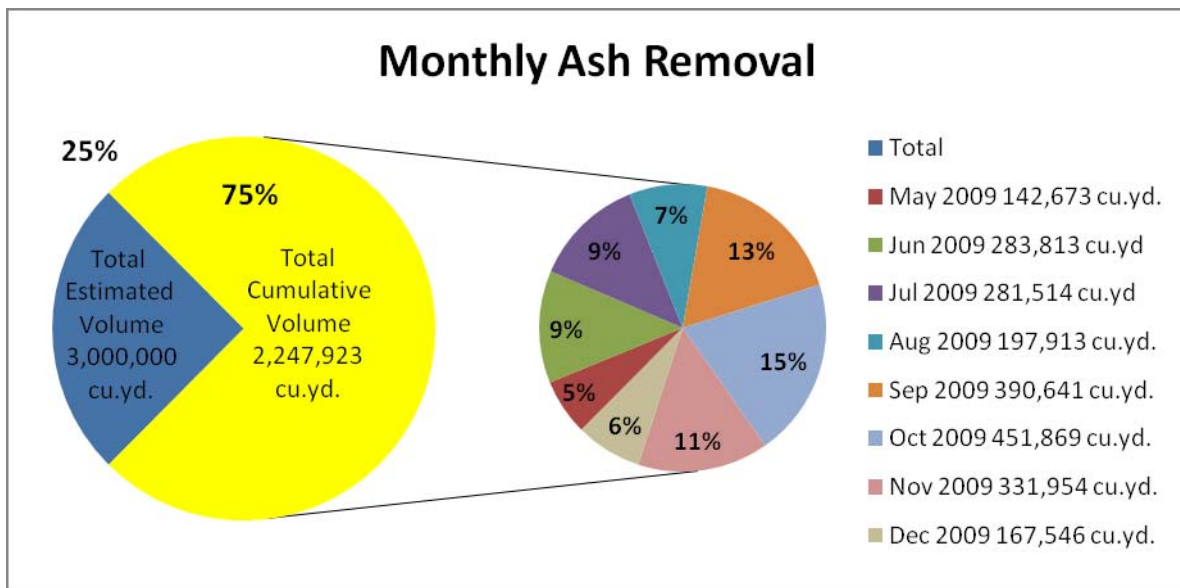
SITE STATISTICS UPDATE

More than 2.2 million cubic yards of the estimated three million cubic yards of the ash released into the Emory River and Swan Pond Embayment has been recovered and removed from the water. River dredging operations and excavating from dry areas continues on-site. Approximately 917,308 cubic yards has been shipped off-site by rail for disposal in an approved landfill in Alabama.

Time Critical Ash Removal

Goal = 3 million cubic yards by Spring 2010 at 15,000 cubic yards/day removal rate
12/31/09 (YTD) = 2,247,923 cubic yards (1,689,494 from river and 558,429 from embayment)
12/1-31/09 = 167,546 cubic yards removed in 21 workdays = 7,978 cubic yards daily average

Estimated completion of time critical ash removal is March 2010 based on 752,077 cubic yards remaining at a removal rate of 15,000 cubic yards per day (six workdays per week).



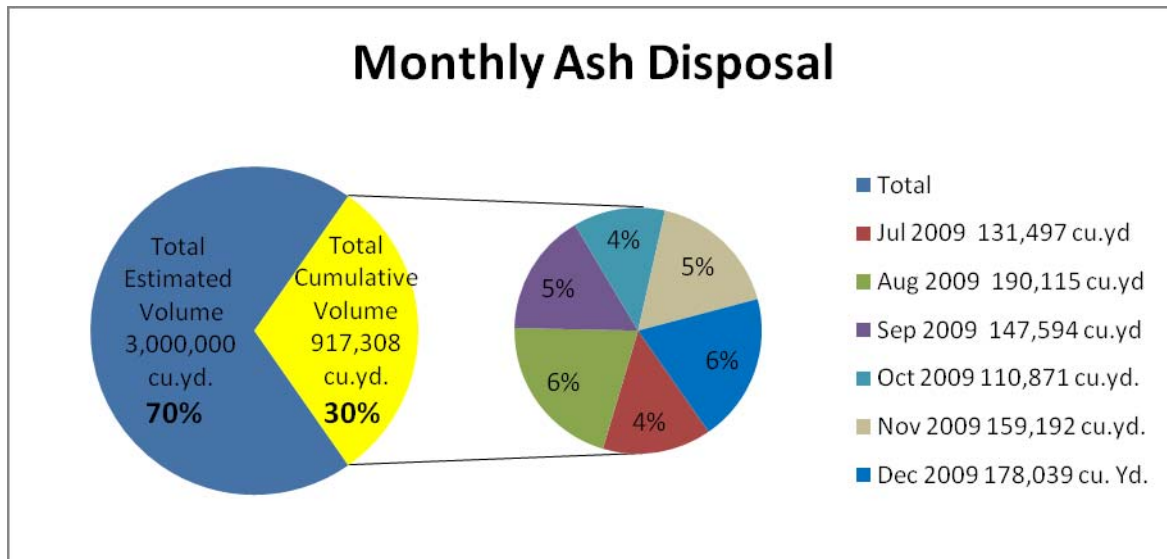
Time Critical Ash Disposal

Goal = 3 million cubic yards disposed off-site by Fall 2010 at 10,000 cubic yards/day shipping rate

11/30/09 (YTD) = Shipped 917,308 cubic yards (converted using 1.3 tons/cubic yards)

11/1-30/09 = Shipped 178,039 cubic yards in 21 work days = 8,478 cubic yards daily average

Estimated completion of time critical ash disposal is September 2010 based on 2,082,692 cubic yards remaining at 10,000 cubic yards/ day shipping rate (six workdays per week).



NOTE: Disposal numbers misreported in tons rather than cubic yards in previous report. TDEC is tracking total quantities of ash removed and ash sent for disposal off-site in cubic yards for comparison purposes.

LONG TERM RECOVERY PHASE

As communicated previously, the Emory River ash removal is referred to as a "time critical" action under EPA's Administrative Order. The next, or "non-time critical," phase will focus on removing the remaining ash from embayments, sloughs, tributaries and ground surface and also closing the failed landfill. TDEC has communicated to TVA the department's expectation that ash removal and restoration of the waters of the state will continue without interruption during the transition from time critical to non-time critical actions.

On October 21, 2009, EPA published the Engineering Evaluation and Cost Analysis (EE/CA) work plan that describes the remedy alternatives. A "Summary of Response to Comments" on the EE/CA work plan is expected to be released in the coming weeks. The EE/CA report will also be available for public comment shortly. The report includes the cleanup alternatives from the work plan, as well as information on cleanup costs and schedules. When ready, these reports will be available on EPA's Kingston Web site as well as TVA's Kingston Web site.

ADDITIONAL TDEC PERSONNEL ON-SITE

The department has phased out its office at the Roane County Health Department and has moved the two staff members who worked in that office to the Kingston site to work with the department's On-Scene Coordinator to monitor plant operations, gypsum landfill issues and data management. They will continue to perform twice-a-week sampling of the Emory and Clinch Rivers and weekly sampling of drinking water plants. Since the Roane County Health Department site was no longer being utilized by the public, the department determined the best use of the personnel staffing that office was at the site itself. Department personnel from both the Central Office in Nashville and Knoxville Environmental Field Office will continue to be thoroughly involved in cleanup and regulatory oversight activities as well.

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 community outreach events for the Kingston Ash Recovery Site, in which TDEC participates, is as follows:

January 19, 2010 – CAG Meeting – 6:30 p.m. Bluff Road Location

January 26, 2010 – Public Meeting – 5:30 p.m. Roane County High School

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 email 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.