BOONE PROJECT UPDATE

Volume 2, No. 33
October 4, 2016

Lead Dam Safety Engineer Carol Ford checks a piezometer, which measures pressure and depth of groundwater

TVA to Test Grout Effectiveness in November

Lake levels will fluctuate during testing

Local residents and businesses will get to see visible evidence of progress on the Boone Dam Repair this fall as lake levels will be temporarily lowered and raised to test the effectiveness of grout installed over the past several months. Weather conditions permitting, starting November 14, we will be moving the lake level between 1350 and 1355 feet above sea level, the lower and upper limits of the current operating guide. The lake will then return to its current level of about 1352 feet by November 30,

During testing, we'll be carefully monitoring our extensive network of sensors and comparing results to readings we took before the work began. The data collected will help us finalize plans for remaining repair work.

Exact timing for the lake level changes will be posted on the Boone website and the @BooneRepair Twitter feed.

Construction Update: Project Prepares for High Mobility Grouting Phase

With the planned November effectiveness testing of the low mobility grouting work, we are already looking forward to the next phase of the project: high mobility grouting (HMG) testing. HMG has a much thinner consistency than the LMG (think chocolate milk vs. thick toothpaste) so it can make its way into smaller spaces in the earthen embankment's geology. The combination of the two types of grout will help make the embankment "waterproof" and prevent the kind of seepage that was detected in October 2014. It's all a part of repairing Boone Dam so we can restore the lake to normal levels while continuing to ensure the safety of the public.

Satellite tanks store pre-mixed grout before it is pumped into boreholes

Creating Future Fish Habitats, Preventing Shoreline Erosion

We continue to receive questions about the vegetation that has grown on the exposed banks of Boone Lake during the lower water levels. Although some consider it a problem, the vegetation is actually doing two positive things:

1. It benefits future fish populations by creating spawning areas and fisheries of the future. Fishermen, like the one in the photo at left, are commenting about the larger catches they are seeing on the lake.
2. It helps control soil erosion along the shoreline while that area is exposed.

If desired, property owners are allowed to mow and maintain their properties. If you have questions on how to best manage shoreline vegetation on your property, we've developed on online brochure at: https://tva.com/Newsroom/Boone-Dam-Project/Boone-Exposed-Lakebed-An-Owners-Guide.

Boone Dam Engineering Manager Addresses State Conference

Boone Dam Manager of Civil Engineering Patrick Kiser recently spoke at the annual meeting of the American Council of Engineering Companies of Tennessee & Tennessee Society of Professional Engineers' State Conference in Nashville. Patrick told the more than 100 attendees that instruments used at Boone Dam are critical for both data collection and maintaining safety of our workers and the downstream public. He provided the group an overview of the site and ongoing remediation work at Boone Dam.

Boone Dam Civil Engineering Manager Patrick Kiser

New Community News Updates! Remember, we'll keep you informed in between monthly editions of this newsletter through the new "Community News" section of the Boone website. We'll also update the @BooneRepair Twitter feed and, if needed, provide special newsletter editions. You can always e-mail us questions at boonelake@tva.gov, or stop by the TVA Community Relations trailer at the intersection of Boone Dam and Minga Roads.

How to Receive Regular Updates *"The Boone Dam Update"* is published monthly to help keep TVA's stakeholders informed on the activities associated with repairing the earthen embankment at Boone Dam. These updates and other information are available at TVA's website: Boone Repair and via email distribution.

If you'd like to be included on the Boone Update email distribution list, please visit Boone Repair and submit your email address where you see "Sign up below to get weekly updates via email." Learn more the Boone Project and other TVA activities on Facebook at http://www.Facebook.com/TVA and on twitter @BooneRepair.

If you wish to unsubscribe to this newsletter, please reply to this e-mail with the word "UNSUBSCRIBE."