

**Roane County Environmental Review Board (RCERB)  
July 7, 2011 Meeting Minutes (Approved August 4, 2011)**

**Members Present:**

Riley Collins, Student  
Bruce Kimmel, Chairman  
Mary Anne Koltowich, Recorder  
Frank Kornegay  
Brian Niekerk  
Gail Okulczyk  
Dave Reichle, Vice Chairman

**Members Absent:**

Hailey Caldwell, Student

**Guests:**

Warren Kocher, Roane County Planning Commission  
Dale Rector, Deputy Director, TDEC DOE  
James Smith, Roane County Citizen

**Agenda: Approved (see attached)**

**Public Comments:**

Warren Kocher, Roane County Planning Commission.

- The loss of state planners is making it more difficult for the Planning Commission to perform certain activities. It is currently unable to obtain maps and provide map updates. Frank Kornegay suggested the Planning Commission request help from a community college (e.g., Roane State); an instructor can make it a class project to perform CAD updates or as-built drawings to the county's maps. Mr. Kocher appreciated this suggestion and will take it back to the Planning Commission for further action.
- It is also more difficult to obtain interpretation on state regulations.

**Proceedings:**

The July 7, 2011 meeting of the RCERB was called to order at 6:00 pm by Chairman Bruce Kimmel.

- 1) Approval of June 2, 2011 RCERB Meeting Minutes: A motion was made and seconded to approve the June 2, 2011 RCERB meeting minutes as presented during the meeting. The minutes had previously been reviewed via e-mail and comments were incorporated. A vote was taken, and the motion was approved.
- 2) Program: Mr. Dale Rector, TDEC DOE Oversight – Update on DOE Oak Ridge Reservation (ORR) Groundwater Monitoring Results and Activities)

Dale Rector first “played” as game of trivial pursuit with the RCERB using facts from the ORNL/TM-10269 report entitled “History of Disposal of Radioactive Wastes into the Ground at Oak Ridge National Laboratory.” Many of the questions were answered correctly, and several educational points were made.

Mr. Rector then presented information included in a handout entitled “Jones Island, NRDA, DOE Cleanup/Budget, Tennessee Department of Environment and Conservation, DOE Oversight Division.” This is an update to a previous RCERB meeting with TDEC last year when it became known there were wells across the Clinch River on private lands with sampling results exhibiting constituents of concern, possibly from migrating contamination from the ORR. The following represents a summary of the information provided.

- **TDEC Groundwater Exit Pathway Monitoring**

TDEC monitors springs and wells on and off the ORR as part of its DOE oversight activities. Some of the springs and wells off the ORR are used for drinking and other household purposes. Analytical results from sampling these springs and wells are compared to national primary and secondary drinking water regulations.

- **Melton Valley Groundwater Exit Pathway Monitoring**

- DOE reported contamination in Picket Wells in 2007 and TDEC has concentrated off-site groundwater monitoring across the Clinch River. The area is underlain by fractured shales, siltstones, and limestones. The bedrock is covered by residual soils and alluvium near the Clinch River. Near-surface solid/liquid waste disposal was extensive in Maryville Limestone and subordinate in Nolichucky Shale, Rutledge Limestone, and Rogersville Shale.
- Hydrofracture injection of liquid/sludge waste in cement occurred at depths of 800 – 1,000 feet in Pumpkin Valley Shale.
- Some of offsite Melton Valley wells are exhibiting high pH, sodium (Na), and Selenium (Se) values (primary USEPA MCL exceeded or water is caustic enough to be classified as hazardous waste). These wells are typically the deeper wells (600 feet).
- Some of the DOE offsite monitoring wells are also exhibiting significant levels of volatile organics, including, but not limited to butanone, acetone, chloroform, and toluene).

- **Analytical Results for Residential Wells**

- One residential well, Hound Dog #2, exhibits multiple contaminants of concern, including numerous volatile organics.
- Some of the residential wells, from both Bethel and Melton Valleys, show elevated pH levels.

- **DOE ORR Natural Resource Damage Assessment (NRDA) Status June 16, 2011**

- The NRDA is managed by the Trustee Council, which works together under a Memorandum of Understanding (MOU), and comprises representatives from the State of TN, TDEC; DOE; TVA; and U.S. Department of Interior (DOI), U.S. Fish and Wildlife Service.
- Settled Claim-Lower Watts Bar: An Agreed Order on Consent (AOC) between DOE and the State with TVA and DOI concurrence was signed October 6, 2010. The AOC settled a \$6-9 million claim for natural resource injuries to Lower Watts Bar Reservoir. It provides compensation through 1) a 3,000 acre Black Oak Ridge Conservation Easement and 2) \$50,000 for recreational fishing restoration projects (currently working with the other Trustees to plan and implement).
- Balance of the ORR: The Trustee Council is working to gather data for evaluation of groundwater, ecological, and other recreational resource losses for the remaining balance of the reservation. The Trustee Council will work with Industrial Economics, Inc. to identify and fill any data gaps necessary for the evaluation. Once the evaluation is complete, it will be released for public review prior to finalization.

- **TDEC Perspective on ORR Cleanup Progress and Budget:**

- FAA was signed in 1991
- Off-site contamination is first priority
- There are final RODS for Watts Bar, Clinch River, South Campus, and East Fork Poplar Creek

- Effort is now focused on source removal while assuring no uncontrolled off-site contaminant migration
  - Numerous Interim RODS and removal actions are in place to address soils and structures'
  - Groundwater actions are planned for future RODs
  - The FFA was expanded in 2008 to include IFDP
  - Current funding proposals are considered insufficient to meet FFA App. E and J schedules
  - TDEC and EPA are in dispute with DOE
- The RCERB thanked Mr. Dale Rector for his insightful and educational program. The RCERB plans to continue with these updates in the future

3) Roundtable Discussions

- a. Riley Collins discussed ideas regarding a program for the Roane County High School to collect recyclables, such as plastic bottles, aluminum cans, and paper. He suggested having separate receptacles and providing teachers with paper boxes. He emphasized that activities be focused on making it easy for the students to want to recycle. It was suggested that a planning meeting be set up with Mr. Ralph Stewart, Manager of Solid Waste Disposal, for the county. Gail Okulczyk volunteered to facilitate this meeting.
- b. It was suggested the RCERB draft a County Resolution to request DOE Oak Ridge to expand its well monitoring program for the Bethel and Melton Valleys to install/include wells of depths of 1100-1300 feet. This is due to the disposal of wastes through the hydrofracture process at depths of 1000 feet. This resolution would also include for DOE to ensure residents in the affected and close-by areas (now and in the future) have water piped in. This would help ensure the health of the public and may help mitigate further migration of contaminants. It was also recommended this resolution include disposition of residential well Hound Dog #2 to either properly develop, use, and control this well or permanently seal and cap it.

4) Upcoming Programs:

**August 2011** – Chairman Bruce Kimmel desires to reserve this meeting to work on resolutions and plan future activities for the RCERB. Due to receiving excellent programs from guest speakers, the RCERB has had limited time during the meetings to further discuss concerns and issues within the county.

**Future** – It was suggested to invite R.H. (Dick) Kettelle to be a program speaker to discuss the hydrogeological features that exist in areas affected by contamination migration (e.g., DOE ORR).

7:30 pm - Adjourn

Respectfully Submitted,  
 Mary Anne Koltowich  
 2011-2012 Roane County ERB Recorder

Attachment: July 7, 2011 Agenda

Meeting Agenda July 7, 2011; 6:00 P.M.  
Roane County Environmental Review Board

- 6:00 Call to Order
- 6:01 Approval of Agenda
- 6:05 Approval of June 2, 2011 RCERB Meeting Minutes
- 6:10 Public comment time
- 6:15 **Program** – Mr. Dale Rector, Deputy Director, TDEC DOE Oversight  
Update on DOE Oak Ridge Reservation (ORR) groundwater monitoring results and activities
- 7:15 (or defer due to time restraints) Roundtable Discussions
- A) Ideas and actions to help encourage high school students, in particular, and younger grades also to recycle in the schools – Hailey Caldwell and Riley Collins
  - B) New Business

Documents for Review/Comment: Previously transmitted 6/16/11; comments due 7/5/11

- 1) Dike C Buttress, Segment B Work Plan (185 pages) -  
[http://www.tva.gov/kingston/admin\\_record/pdf/TC/TC172.pdf](http://www.tva.gov/kingston/admin_record/pdf/TC/TC172.pdf)
- 2) Intake Channel Bridge Removal Work Plan (12 pages) -  
[http://www.tva.gov/kingston/admin\\_record/pdf/TC/TC169.pdf](http://www.tva.gov/kingston/admin_record/pdf/TC/TC169.pdf)
- 3) Intake Channel Causeway Removal Work Plan (15 pages) -  
[http://www.tva.gov/kingston/admin\\_record/pdf/TC/TC171.PDF](http://www.tva.gov/kingston/admin_record/pdf/TC/TC171.PDF)
- 4) Siphon Installation/Diffuser Removal Work Plan (12 pages) -  
[http://www.tva.gov/kingston/admin\\_record/pdf/TC/TC170.pdf](http://www.tva.gov/kingston/admin_record/pdf/TC/TC170.pdf)

7:30 adjourn