

**Water Resources Board
Draft Meeting Minutes
September 29, 2016**

Board Members in Attendance: Earl Bush (County Judge Executives); Steve Coleman (KY Farm Bureau); Lloyd Cress, Jr. (KY League of Cities); John Dix (KRWA); Peter Goodmann (Proxy, EEC, Director DOW); Kevin Jeffries (Soil and Water Conservation Districts); Tom McKee (LRC); Kevin Rogers (KY Chamber of Commerce); Lance Terrell (Proxy, KDA); Steve Workman (Proxy, UK)

Board Members Absent: Dr. Nancy Cox (UK); Ryan Quarles (Commissioner Dept. of Agriculture); Charles Snavely (EEC Secretary);

Others in Attendance: Lowell Atchley (LRC); Jory Becker (DOW); Joe Cain (KY Farm Bureau); Bill Caldwell (KDOW); Annette Dupont-Ewing (KMUA); Carey Johnson (DOW); Samantha Kaiser (DOW); Jim Kipp (KWRRD); Gary Larimore (KRWA); Haley McCoy (EEC); Kate Shanks (KY Chamber of Commerce); Chuck Taylor (KGS)

The meeting began at 1:05 p.m.

Call Meeting to Order and Roll Call of Board Members

Peter Goodmann called the meeting to order and led the roll call of Board members.

Introduction of Guests

Guests introduced themselves.

Approve Minutes of August 29, 2016

No changes were made to the meeting minutes from August.

Presentation by Chuck Taylor, Head, Water Resources Section, Kentucky Geological Survey – Overview of Kentucky's Aquifers- The Framework for Groundwater Availability & Priority Groundwater Data and Research Needs- KGS Perspective

Mr. Taylor gave a Power Point presentation regarding groundwater aquifers. He discussed several different types of aquifers and how porosity and permeability factors in storage capacity and flow rate. Characteristic of an ideal aquifer include the extraction rate and quantity of water needed for use; water quality suitable for intended uses; highly porous, permeable, and mostly homogenous geological material; geographic extensiveness; good saturated thickness and below elevation for base-level drainage; and enough recharge and groundwater storage to main sustainability. Kentucky is a topographically and geologically diverse state, which makes its aquifers equally as diverse. Due to different flow rates and paths of groundwater, this affects groundwater recharge, residence time, and quality. Kentucky's six aquifer systems by physiographic region are Jackson Purchase, Western Coal Field, Ohio River Alluvium, Mississippian Plateau Karst, Inner Bluegrass Karst, and Eastern Coal Field. Many aquifers are highly productive, but water quality may not be suitable. The diversity and complexity of fractured and karst aquifers contribute to difficulty in mapping aquifers, quantifying their hydrologic properties, and assessing groundwater availability.

All groundwater data collected in Kentucky is accessible by the Groundwater Data Repository (GWDR). KGS identified four priority groundwater data and research needs: (1) Kentucky needs a statewide long-term groundwater observation network (KGON). KGS is currently working to rebuild the KGON, but long-term maintenance, expansion, or enhancement of the network and data-collection activities will require additional outside funding and partnership. (2) More quantitative data on aquifer yield and hydraulic properties. KGS has preliminary data from the Jackson Purchase Area, but additional well monitoring and data collection is needed. (3) Aquifer delineation and mapping, improved groundwater availability assessment, and resource development and management. Currently DOW and KGS are working on a proposal for a pilot-scale project for aquifers used by permitted groundwater suppliers. A publicly-accessible aquifer test archive database will be accessible in the future through a KGS website currently being built. (4) Development of improved groundwater management tools. This may involve the creation of groundwater flow models or well-hydraulic response simulation tools that can help predict groundwater availability and sustainability. This objective will depend on data from previous items discussed.

Due to time constraints, the presentation by Peter Goodmann, Director, DOW, and Bill Caldwell, Scientist, DOW— *A Kentucky Water Resources Plan* will be given at the next meeting.

Action Items and Reports

There were no additional details to discuss. The sub-committee will meet prior to the next meeting to prioritize projects.

Open Discussion for Board Members

The Board again indicated interest in a presentation on funding sources, and to discuss the differences between State Cost Share Funds (SCS) and State Revolving Funds (SRF). A member from the Army Corps of Engineers will be invited to a future meeting. During that same meeting the Board would also like to discuss jurisdiction of the waters of the Commonwealth. The Board would like to discuss how the Water Resources Development Act will affect Kentuckians if the bill passes.

Public Comment Period

No public comments were made.

Next Meeting 1:00 PM – October 31, 2016 Training Room C

The meeting adjourned at 3:22 p.m.