



**Water Resources
Research Center**

University of Missouri-Columbia

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July 23, 2015

Mr. John Holmes
Allstate Consultants
3312 LeMone Industrial Blvd.
Columbia, MO 65201

Dear John,

The East Locust Creek Reservoir (ELCR) offers a unique opportunity to create a model for future lakes and can be used to develop better methods to protect this lake and the public from potential contaminants. We are interested in working with you (the North Central Missouri Regional Water Commission and Allstate Consultants) in establishing a study area to address potential environmental concerns. By being able to study the reservoir before and after construction, one can determine any variations and the causes. Results from this research would benefit not only this reservoir but can be applied statewide and have national implications. Possible topics include enhanced data acquisition for streams and flows, including nutrients, pathogens, toxins and chemical contaminants, carbon life cycle analysis of this lake water compared to the other options and alternatives evaluated in the Preliminary Engineering Report, and for the Army Corp of Engineers permits and Supplemental Environmental Impact Statement, etc.

It is understood that there is only "one" water and it will have multiple uses in its life cycle. All of those need to be considered as we make decisions. This includes energy, food and water needs and their interactions. It is critical that the "Smart Lake Approach", that the project team has been using, be expanded to include the generation of the type of data necessary to properly implement the Lake Authority Legislation controls granted by the state on this water and to further evaluate their impacts on the lake and the potential benefits its brings to the watershed health and downstream environment.

We hope that MU's Missouri Water Resources Research Center will be able to work with the North Central Missouri Regional Water Commission and Allstate Consultants on this project. You have a wealth of talented engineers and teaming with MU's Missouri Water Resources Research Center will provide us with the expertise necessary to provide unique data for the reservoir, state and nation.

Sincerely,

Tom Clevenger
Professor Emeritus
Missouri Water Resources Research Center

Baolin Deng
Director
Missouri Water Resources Research Center