

# MEMORANDUM

**To:** Board of Directors  
**From:** Gary B. O'Connell, Executive Director  
**Date:** May 14, 2010  
**Re:** RWSA Board Meeting on April 27, 2010 and Related Water  
& Wastewater Updates  
**cc:** James M. Bowling, IV

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Given what is normally in your packets about the Rivanna Water and Sewer Authority (RWSA) approved minutes of two months earlier, I wanted to send you some additional information on some major projects and issues going on at RWSA that ultimately impact the Albemarle County Service Authority (ACSA). Over the next several months some important Water Supply studies will be forthcoming.

## Water Studies Schedule

- Ragged Mountain Dam Engineering Work – The geotechnical and geophysical investigations are complete in areas upstream of the existing dam. Schnabel Engineers are proceeding to prepare an alternatives analysis comparing the cost of an earthen fill dam design, and a preliminary design report with a detailed cost estimate. An additional study has been authorized for Schnabel to evaluate alternative dam heights so that all the data and cost comparisons are available for the final decisions on the dam project. Schnabel will be doing a public presentation on their initial dam design concept at the May 25, 2010 RWSA Board meeting, and at a June 2, 2010 public meeting. The Alternatives Dam Study work will not be available until late June.
- Demand Study - As previously reported to the ACSA Board, RWSA upon motion by Albemarle Supervisor Ken Boyd, approved a \$25,000, 3 month study to review water demand calculations for the future water supply needs. The RWSA staff was asked to come up with a scope of work and to seek a consultant to do such a study in

a short period of time. Data for the demand analysis is already being collected by the RWSA staff, including requests to ACSA for water use information.

- Dredging Feasibility Study - Continues to identify the best method for dredging the South Fork Reservoir, and to identify land sites near the reservoir suitable for processing the removed sediment for beneficial use or land spreading. The report is expected for the June RWSA Board meeting, and a public meeting presentation is being scheduled for June 30, 2010.
- City Funded Study of the Existing Dam + 13' (addition to the current Ragged Mountain Dam) – The study is about to begin in two phases, with the first phase being a condition assessment of the current dam.

### WasteWater

- At the April 27, 2010 meeting the RWSA Board approved a construction project to increase the capability of the Moore's Creek Wastewater Treatment Plan for peak wet weather flow to 45 mgd (million gallons a day; from a current 18 mgd). These phased projects are estimated to cost \$6.9 million.

GBO/dbh

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