

Rivanna Water and Sewer Authority Conducting Cutting Edge Water Treatment Research

September 2009

The Rivanna Water and Sewer Authority (RWSA) has begun research collaboration with the Water Research Foundation of Denver, Colorado in association with Environmental Engineering and Technology of Newport News, Virginia at the South Rivanna Water Treatment Facility. Dr. David Cornwell from EE&T will be the Technical Advisor and Dr. Reckhow of the University of Massachusetts will be conducting advanced analytical analysis. Dr. Miguel Arias of Orica Watercare has provided their proprietary MIEX (magnetic ion exchange resin) and mobile pilot testing unit to conduct the ion exchange research. The project team believes that this research project will provide the first comprehensive evaluation of the impacts of magnetic ion exchange resin on downstream treatment processes at a drinking water treatment facility. Pilot testing will last for five weeks at the South Rivanna Water Treatment Facility and then move to the Scottsville Water Treatment Facility for five weeks to conduct similar research on the smaller water treatment facility.

RWSA operators are also participating in this research. This effort is a part of RWSA's goal to identify cutting edge technology for continuing to advance the quality of drinking water and public health, both within its service area and through information exchange beyond the local area and nationally.



Chad Johnson, South Rivanna Water Facility Treatment Operator sampling research treatment units.



Orica Watercare magnetic ion exchange resin (MIEX) research pilot facility at South Rivanna Water Treatment Facility.

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Contact: Dr. Robert Wichser
Rivanna Water and Sewer Authority
434-977-2970, X155