



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
KNOXVILLE ENVIRONMENTAL FIELD OFFICE

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May 15th, 2023

Anderson County Water Authority
Mr. Jack Shelton, Chairman
P.O. Box 70
Clinton, TN 37716

RE: **Compliance Evaluation Inspection-Filter Backwash Permit**
Anderson County Water Authority, Elza Water Treatment Plant
NPDES Permit No. TN0073235
Anderson County

Dear Mr. Shelton:

On March 28th, 2023, Sarah Snyder, Erich Webber, and Jenna Williams from the Division of Water Resources (The Division) visited the Anderson County Water Authority Elza Water Treatment Plant and performed a Compliance Evaluation Inspection (CEI) of the NPDES filter backwash water permit TN0073235. The inspection covered the time-period from February 2021- March 2023. The Division would like to thank Mr. Jon Martin and Mr. Jeremiah Sweat for their curtesy and assistance during and following the inspection.

As a result of the inspection the following comments, deficiencies, and/or recommendations have been noted:

1. Site Review

NPDES Permit # TN0073253 authorizes Anderson County Water Authority's Elza Water Treatment Plant (WTP) to discharge filter backwash and other wash water from Outfall 001 into the Clinch River at mile 52.5. A Discharge sign was posted as required alongside the river. The permit was issued February 18th, 2021 and will expire August 31st, 2025.

Anderson County Water Authority operates a conventional filtration water treatment plant with of an average production of 1.94 million gallons per day consisting of flocculation, sedimentation, and mixed media filters. Treatment includes sodium hypochlorite, a polymer coagulant, phosphate corrosion inhibitor, and the addition of fluoride. Chlorine is added pre and post filtration. Fluoride and the phosphate corrosion inhibitor are also added post filtration.

Construction to expand the basin was going on during the inspection. Water held in the pond was did not appear to be affected from the work going on surrounding it. The Division does request that ACWA notify the Knoxville Field Office when the basin rehab project has finished.

2. Records & Reports

Monthly Discharge Monitoring Reports (DMRs) have been submitted on time and no permit exceedances occurred in the inspection period. Total residual chlorine and pH are analyzed on-site. Reagents for Chlorine analysis were in date and the pH meter is calibrated before use. Total suspended solids, Aluminum and settable solids are sent to a contract lab capable of performing the analysis using an approved 40CFR136 Method.

General Observations, Comments, and/or Other Recommendations

Again, I would like to thank facility personnel for their assistance and courtesy. If you have any questions or need additional information, please contact me at the Knoxville Environmental Field Office. My telephone number is (865) 347-4849 and email is Jenna.Williams@tn.gov.

Sincerely,



Jenna Williams, Environmental Protection Specialist
Knoxville Environmental Field Office
Division of Water Resources

cc: Mr. Larry Clowers, General Manager and Distribution System Operator, ACWA (e-copy)
Mr. Jeff Elliott, Chief Water Treatment Operator, ACWA (e-copy)
Mr. John Mitchell, Superintendent, ACWA (e-copy)
Mr. Jeremiah Sweat, Compliance Officer, ACWA (e-copy)