

Project Name: **Lewisburg Wastewater Treatment Plant Upgrades**

Utility Name and Location: **City of Lewisburg
Lewisburg, Tennessee**

Key Personnel: J. Gregory Davenport, P.E.
J. Roy Wauford, Jr., P.E.
Stephen C. Lee, P.E.
Robert S. Qualman, Jr., P.E.

Project Description: This project is the second major renovation of this plant by J.R. Wauford & Company since 1985 and includes a 17.0 MGD headworks expansion, 10 MG prestressed concrete inflow holding tank, new primary clarifier, conversion of the twin biological towers from series to parallel operation, two new final clarifiers with phosphorous precipitation, ultraviolet disinfection, and denitrification filters. This plant is being designed for full BOD removal, full nitrification, full denitrification, and chemical phosphorous removal. This project results in a biological design capacity of 6.0 MGD and a hydraulic design capacity of 17.0 MGD. The effluent discharges to Big Rock Creek which has a 7Q10 flow of zero cfs requiring strict discharge limitation. **Biosolids are dewatered to approximately 18% solids by a rotary style Fournier press and then stabilized by mixing with cement kiln dust producing an exceptional quality Class "A" product.**

Construction Cost: \$13,228,777

Date of Completion: June 2013

Engineering Services: Planning, Detailed Design, Bidding and Award, Construction Administration, and Resident Observation



**Rotary Style Sludge Press by Fournier Industries
Lewisburg Wastewater Treatment Plant
Lewisburg, Tennessee**



**Cement Kiln Dust Cake Sludge Processor
Lewisburg Wastewater Treatment Plant
Lewisburg, Tennessee**