



## Project Profile

### Water Authority Hits Zero with LayneOX™

Autauga County Water Authority  
Prattville, Alabama



*LayneOx operates as both a classical filter working with an oxidant and as a catalytic media.*

The Autauga County Water Authority has been providing water to residents and businesses for decades and was facing a significant treatment problem. Levels of iron and manganese had risen to unacceptable levels and they were looking for solutions to reduce the contaminants to acceptable levels.

Working through consulting engineer Chambliss Engineering, LLC, the Water Authority called upon Layne Christensen for options. Layne's water treatment engineers reviewed the conditions and tested for samples. They found that water was high in iron (Fe) at 1.25 ppm and manganese (Mn) at 0.10 ppm. Layne engineers recommended installation of a 400 gpm LayneOx filtering system. Because it contains naturally high manganese dioxide content, LayneOx provides a higher adsorption capacity and faster reaction times than other media.

While other systems were considered, the LayneOx system was selected for its efficient iron removal, ease of use and low maintenance requirements. It was appreciated by the Water Authority their crews were not burdened with constant operations and maintenance. The installation process went as planned and LayneOx was soon treating Autauga water. Iron had been reduced from 1.25 ppm to 0.00 ppm, and manganese had been reduced from 0.10 ppm to 0.00 ppm, as well.

#### Owner:

- Autauga County Water Authority, Pikeville, Alabama

#### Engineer:

- Chambliss Engineering, LLC

#### Contacts:

- Doyle Goodman, General Manager
- Bill Van Pelt, Account Manager

#### Completed:

- 2009



*The LayneOx design is less expensive to construct as the improved performance provides financial benefits in the form of a smaller building.*

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Layne Christensen Company  
Water Technologies

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