



Walnut Creek Water Reclamation Facility

**PROJECT PROFILE
CONSTRUCTION**

CLIENT
Henry County Water &
Sewerage Authority

COMPLETE WASTEWATER TREATMENT PLANT UPGRADE

McDonough, GA

SITUATION:

Population growth, prevailing regional drought conditions and a high ratio of peak flow to average daily flow were factors in the development of this state of the art wastewater treatment and water reuse facility.

SOLUTION:

Layne performed all work required to construct the complete Walnut Creek WRF Phase 2 Expansion. This is a 3 MGD contact stabilization wastewater treatment and recycling facility. The project consisted of:

- + Influent Pump Station pump
- + Odor Control System
- + Two 100-foot diameter Final Clarifiers
- + Aeration basin with fine bubble diffusers
- + Aeration Blower
- + Advanced Thermophilic Aerobic Digestion structure and equipment
- + Return and Waste-activated Sludge Pumping
- + Sludge Dewatering System additions
- + Rotary Drum Thickener
- + Yard piping, electrical, instrumentation and controls
- + SCADA system
- + Security system.

Layne worked with the owner's operations staff and the engineer to construct the new facilities while maintaining process treatment in the existing process train.

SERVICES EMPLOYED:

- + Wastewater Treatment Plant Construction
- + Pump Station Construction
- + Pipeline Construction

