

TRITECH CIVIL ENVIRONMENTAL, PC

Groundwater Treatment Systems

*Planning, Engineering, &
Surveying*



**TRITECH CIVIL
ENVIRONMENTAL, PC**

401 Commerce Place
Asheboro, NC 27203

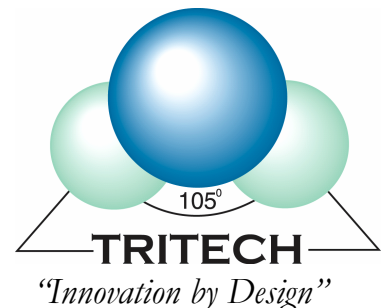
Phone: 336-498-1060

Fax: 336-498-1070

Email: pmbrower@tritechcivil.com

Website: www.tritechcivil.com

**Water Treatment Plant
Clarifier Tube Settler Addition
Selma, North Carolina**



TRITECH CIVIL ENVIRONMENTAL, PC

Water Treatment Plant Upgrade

Planning, Engineering, & Surveying

This project, completed in 2000, consisted of planning, design, and construction phase services for upgrades and emergency repairs to Selma's existing 1 MGD ground water treatment plant. With EEC, Inc., Trittech completed bench-scale treatability tests and well characterization studies to address severe iron and calcite scaling in the plant pumps and piping. Based on the bench studies, contract documents were prepared for renovating the existing aerator, a new rapid mix and flocculation tank, relocating chemical feed points, and tube settler addition in the existing settling basin. During construction, Trittech solicited equipment procurement bids, reviewed transmittals from vendors, observed installations, and assisted with initial start-up. The total construction cost of the project was approximately \$300,000. Due to raw water variability, Trittech/EEC completed further treatability tests to determine suitable control protocols for feeding potassium permanganate and polymer to enhanced iron removal, pH control, and operation regimes.

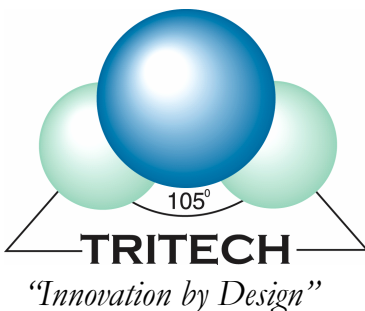
Reference information:

Bruce Radford, Manager

Joe Price, FC

Town of Apex 919-362-7300

Town of Selma 919-965-9841



401 Commerce Place
P. O. Box 4127
Asheboro, NC 27204-4127
Email: mrstout@tritechcivil.com
Website: www.tritechcivil.com

Phone: 336-498-1060
Phone: 336-672-5253
Fax: 336-498-1070