



TRITECH CIVIL ENVIRONMENTAL, PC

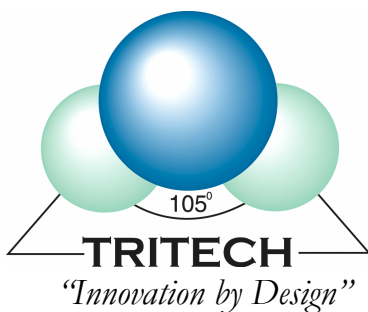
Wastewater Treatment Plant Upgrade

Planning, Engineering, & Surveying

This project, completed in 1997, consisted of design and construction phase services for an upgrade to the existing 3 MGD conventional activated sludge wastewater treatment plant in Raeford. The modifications included administrative building modifications (doors, windows, HVAC, and office space), installation of a fine bubble diffused aeration system in four aeration basins, a 4300 scfm centrifugal blower, a 4000 gpm influent pump and installation of adjustable frequency controls on two other existing influent pumps, 30-inch gravity interceptor, flow measurement, new chemical feed building with chlorine feed facilities, and a new electrical service to the plant. Considerable attention was given during design and in the construction phase to assuring operation of the existing facilities and compliance with the NPDES permit during construction. The improvements were intended to upgrade the plant such that an increase in capacity to 4 MGD could be obtained with the installation of sulfur dioxide feed equipment for dechlorination. Authorization to construct was obtained from the Division of Water Quality. The total construction cost of the project was approximately \$1,300,000.

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