

**USDA Rural Development &
Texas Department of Agriculture
Water Treatment Plant & Raw Water Pumping
Facilities - City of Malakoff, Texas
Project ID: 721479**



This project was undertaken to address a deficiency in water production capacity. A new surface water treatment plant with raw water pump station and pipeline was installed.

Improvements included an intake structure in the lake, a raw water pump station, 2 miles of 10" raw water force main, access road to the pump station, concrete clarifier, yard piping, three concrete gravity multi-media filters, filter transfer pumps, MIOX (brine generation of free chlorine) injection system, process monitors (turbidity, pH, chlorine, free chlorine), flow meters, headloss gauges, 600,000 gallon bolted galvanized steel ground storage tank, three high service pumps (one 40 HP and two 100 Hp), one 25 HP backwash pump, liquid chemical storage tanks with containment, office with lab and laboratory equipment, SCADA system, metal building, handicapped accessible sidewalks and office / restroom, liquid ammonium sulfate (LAS) injection for chloramines production, two concrete sludge lagoons, man proof chainlink fence, and site work.

The final cost of the WTP project was \$1,626,324.70. The final cost for the raw water project was \$524,064.70. The total construction cost for both projects was therefore \$2,150,389.40.

This project was funded through a 75% grant / 25% loan from Rural Development and a \$250,000 grant from TDA. The total project cost was \$2,600,000.00.

Services provided by Hayter Engineering are listed at right.

Construction began in October of 2003 and was completed in December of 2004.

CLIENT

City of Malakoff, Texas

CONTACTS

Pat Isaacson, (former Mayor of City of Malakoff)

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City of Malakoff

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CONSTRUCTION COST

\$2,150,389.00

SERVICES PROVIDED:

Financial Application

Design Surveys

Design

Bid & Award

Construction Review