



Maple Creek Wastewater Treatment Plant Upgrade

Greer Commission of Public Works

The Maple Creek WWTP is an activated sludge, sequencing batch reactor (SBR) process. Engineering services included planning, preliminary design, permitting, design, construction administration, and funding assistance to upgrade the Maple Creek WWTP from 4.5 MGD to 5.0 MGD.

Scope:

- New 18 MGD influent pump station expandable to 25 MGD, using variable frequency pumping
- New headworks with fine screens and vortex grit removal system
- 0.5 MG influent online equalization basin with floating aerators and mixers
- 6.5 MG influent offline equalization basin with floating aerators
- Effluent equalization
- Upgrade of the gaseous chlorine disinfection system to a UV disinfection system
- 4.5 MW standby/peak shaving power generating station
- PLC based plant control system communicating over a fiber optic network using a star configuration

The Project: Entire Project
 Preliminary Engineering Report
 Field Location Survey
 Final Design
 Construction Services

Estimated Cost: \$12,867,500
 Contract Value: \$12,311,480

Estimated Contract Time: 600 days
 Contract Period: 680 days

Principal Contractor: Crowder Construction Company, Inc.

