

Tubbs Mountain #1 Force Main and Pump Station

Renewable Water Resources (ReWa), Greenville County, SC

Project Overview

The Tubbs Mountain #1 Force Main and Pump Station Project is located on the eastern side of Travelers Rest. This new system replaced an aging pump station that was struggling to handle incoming flows and requiring extensive maintenance and operator attention.



Project Description

The Tubbs Mountain #1 project included the installation of a new 800 gpm station utilizing duplex series-mounted self-priming pumps, 10,600 linear feet of force main (10" DIP/PVC and 12" HDPE), and 1525 linear feet of 18" gravity sewer.

Rogers & Callcott Services and Results

Basin Study – Rogers & Callcott was engaged by ReWa to conduct a study for the Tubbs Mountain #1 Pump Station to evaluate existing gravity sewers, pump station, and force main facilities and identify options to meet current and future sewer service demands. The study resulted in recommendations of replacing the existing pump station with a higher capacity facility and installing a new force main and gravity sewer to divert flow to a trunk sewer with sufficient available capacity. This flow diversion would also restore significant capacity at the Travelers Rest East Pump Station, which received the existing station flow.

System Design – Rogers & Callcott surveyed the site required for the pump station and surveyed the route of the force main and gravity sewer. The design was complicated by the need to build on the small existing pump station site while maintaining full operation and routing the force main through developed areas of Travelers Rest. Rogers & Callcott designed the facilities using AutoCAD software.

Permitting – Rogers & Callcott prepared applications for the wastewater and stormwater permits and acquired them on behalf of ReWa from the South Carolina Department of Health and Environmental Control. Rogers & Callcott also acquired South Carolina Department of Transportation encroachment permits and coordinated with other agencies as required.

Construction Observation – Rogers & Callcott observed construction of the pump station, force main, and gravity sewer, coordinated the final inspection by the South Carolina Department of Health and Environmental Control, and followed demolition of the abandoned pump station.

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Cost: \$2.25M