



Carbonero Lift Station Scotts Valley, California

Civil Engineering



Client Reference:

Scott Hamby, Public Works Director
City of Scotts Valley
700 Lundy Lane
Scotts Valley, CA 95066
(831) 438-0732

Budget: \$600,000

The Carbonero sewer lift station is one of the largest lift stations in the City of Scotts Valley wastewater system.

The upgrade of the Carbonero Lift Station was challenging for a number of reasons. The excavation for the new wet well was approximately 17-ft deep, the lift station is located immediately adjacent to an existing commercial/industrial building, there were very constrained size and geometry availability for the new equipment and pumping capacity needed to be provided continuously for the duration of construction. The existing lift station was a duplex system whereas the upgrade, constructed in 2007, was a triplex Flygt system, with each submersible pump capable of handling the peak flow of approximately 1,000 gpm @ 25ft TDH, and a total pumping capacity of 2,500 gpm.

Other improvements for the lift station included a T-Lock wet well liner, ultrasonic level control with float back-up, high temperature, seal failure, and low liquid level shut-off and alarm, mix-flush valve, provisions for emergency by-pass pumping, magmeter, standby diesel generator, and SCADA system.