

# PROJECT PROFILE

An Affordable Wastewater Collection Solution for Government Properties

## COTTON HILL CAMPGROUND, GEORGIA

**Problem** The U.S. Army Corps of Engineers (the Corps) planned to update primitive RV sites at Lake Walter F. George with water and electrical service. They wanted to provide sewer hookups as well, but running a traditional sewer line would have been cost prohibitive.

**Solution** The Corps chose an Orenco Effluent Sewer to provide wastewater collection for the RV sites as well as the existing bathroom facilities. The sewer will then connect into a neighboring existing gravity collection system, to convey that wastewater to the Ft. Gaines, Georgia municipal treatment plant.

### Wanted: An Affordable, Low-Maintenance Wastewater System

Cotton Hill Campground is a popular destination for visitors to Lake Walter F. George, near Ft. Gaines, Georgia. The campground is located on a peninsula that jetties out into the lake and includes 94 RV campsites administrated by the U.S. Army Corps of Engineers.

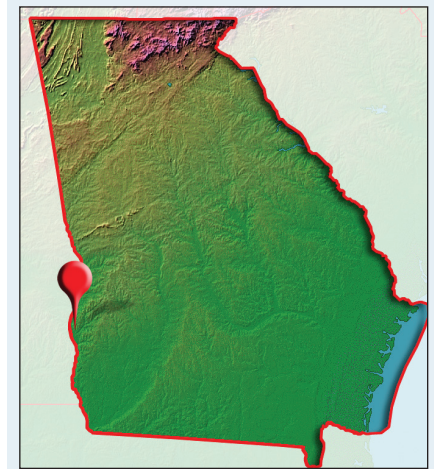


Cotton Hill campsites have always had great views and now enjoy full facility connections. Photo courtesy of CampsitePhotos.com.

## Commercial — Government Market

### Project Summary

#### COTTON HILL CAMPGROUND, GEORGIA



#### Design Parameters

- Campground with 94 RV sites
- Fish wash station
- Bathroom/shower facilities

#### Installation Date

- Summer 2010

#### Primary Treatment

- STEP Collection:
  - Campground:
    - 17 new 1500-gal tanks
    - 17 Orenco STEP pump packages
  - Bathroom/shower facilities:
    - 6 existing collection tanks
    - 6 Orenco pump basin packages

#### Main Lines

- Orenco Effluent Sewer lines discharging into a marine pump station
- Existing municipal gravity sewer lines

#### Secondary Treatment

- Ft. Gaines, GA, conventional treatment plant

#### Controls

- Orenco custom MVP (digital programmable) panels

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**COTTON HILL RV CAMPGROUND, GEORGIA**

The RV sites had no services, and the Corps wanted to upgrade the sites for year-round visitors. They already planned to add water and electrical services and needed an affordable wastewater collection system to complete the package.

The Corps hired PolyEngineering out of Blakely, Georgia to find a solution. Engineer Jeff Jones considered a grinder system, but didn't want to saddle his client with the high maintenance costs he has seen with grinders. He was aware of Orenco Systems' effluent sewer as an alternative and said "It just seemed like a good fit."

Seventeen 1500-gallon tanks were installed, with each tank serving five or six RV sites. Six existing septic tanks serving the restroom facilities were reused, and an Orenco pump basin was installed after each so the bathrooms could tie into the effluent sewer as well. Existing drainfields were retired.



One 1500-gallon tank serves up to 5 or 6 campsites.

Construction is in the early stages. The effluent Sewer main has been designed to run along the campsites and then bore under the lake, for a 1500-foot crossing to a marine pump station. From there, it will connect to an existing gravity sewer system that discharges to the Ft. Gaines municipal treatment plant.

Installation of the system is being coordinated by Anderson Construction Company out of Ft. Gaines, Georgia. The project is funded by the US Army Corps of Engineers through the American Recovery and Reinvestment Act.

**Commercial — Government Market**



Effluent sewer technology can affordably link into existing sewer systems.

For more information about effluent sewers, Orenco Sewers™ and AdvanTex® Treatment Systems, contact Orenco Systems®, Inc.



800-348-9843 • +1 541-459-4449  
www.orenco.com