

*TEI Qualifications and Experience*

## Emeralda Marsh Restoration Project

**Location:** Lake County, Florida  
**Client:** St Johns River WMD  
**Contact:** Mr. Cliff Gandy, Program Manager  
386.329.4500  
**Value:** \$585,200



**Description:** In October 2006, TEI was awarded an annual contract with SJRWMD for their Annual Civil Works Projects. In February 2007 TEI was issued a work order for construction associated with the Emerald Marsh Interim Restoration Project in the Upper Ocklawaha River Basin, Lake County, Florida.



The purpose of the District's Emerald Marsh program is to restore hydrologic conditions in the area more similar to those occurring before drainage and use for decades as organic muck farms. By balancing short-term and long-term goals, a dynamic ecosystem is being returned to the area, which is located between Lakes Yale and Griffin.

The objective of the project was to increase conveyance and provide flood control protection for adjacent properties by widening and deepening an existing ditch, and installing related infrastructure. The ditch was cleaned of vegetation and the muck soils were excavated to target dimensions using long reach trackhoes on crane mats to insure safety to environment and staff. Habitat islands were created from excavated material, and a pump station pad and facility pad were constructed for an alum injection system. In addition, the major culvert under Emerald Island Road was repaired by installing a 32-inch HCPE slipliner inside the existing 36" culvert, and installing a large concrete inlet box and slide gate on the upstream side of the culvert. A de-watering system was designed, implemented and maintained during the duration of the project.

**Equipment:** Longreach and standard trackhoes, backhoe loader, track loader, and dump trucks.

