

Project Name: C&SF: CERP Wastewater Reuse Technology Pilot
Project ID: 3902 (CERP Project WBS # 37)
Lead Agency: USACE / SFWMD
Authority: WRDA 2000 (*pilot project*)
Funding Source: Federal/State

Strategic Plan Goal(s) Addressed: Primary: 3-C.2 Secondary: 2-A.3

Measurable Output(s): 3,500 acres of wetlands restored and created

April 1999 (Restudy) Project Synopsis: The original concept addresses water quality issues associated with discharging reclaimed water into natural areas such as the West Palm Beach Water Catchment Area, Biscayne National Park, and the Bird Drive Basin as well as determine the level of superior treatment and the appropriate methodologies for that treatment. A series of studies will be conducted to help determine the level of treatment needed.

Current Project Synopsis: Pilot facilities will be constructed to determine the ecological effects of using superior, advanced treated reuse water to replace and augment freshwater flows to Biscayne Bay and to determine the level of superior, advanced treatment required to prevent degradation of freshwater and estuarine wetlands and Biscayne Bay. The constituents of concern in wastewater will be identified and the ability of superior, advanced treatment to remove those constituents will be determined.

In addition, a pilot facility will be constructed to treat wastewater from the east central regional wastewater treatment facility using improved wastewater treatment processes to remove nitrogen and phosphorus. After treatment, the wastewater will be used toward restoring 1,500 acres of wetlands and to recharge wetlands surrounding the city of West Palm Beach’s well field. A portion of the treated wastewater will be used for recharge of a residential lake system surrounding the city’s well field and a Palm Beach County well field.

Besides serving as a pilot project for wetlands-based water reclamation, this feature will reduce a portion of the city’s dependence on surface water from Lake Okeechobee during dry or drought events. Another 2,000 acres of wetlands would be created or restored. Other benefits include aquifer recharge and replenishment, reduction of water disposed in deep injection wells and a reduction of stormwater discharge to tide.

Current Status: This project is planned for in the future; and has not yet begun.

Est. Cost: \$ 37,049,000

Project Schedule: TBD

Detailed Project Budget Information (rounded):

Wastewater Reuse Technology Pilot	Expenditures Thru FY 2009
USACE	\$1,208,234
SFWMD	\$667,774
Total	\$1,876,008

Project 3902 C&SF: CERP Wastewater Reuse Technology Pilot Page 1 of 2

Hyperlink: http://www.evergladesplan.org/pm/projects/proj_37_wastewater_pilot.cfm

Contact: Pauline Acosta, Everglades Section Chief, Everglades Division, USACE
Pauline.M.Acosta@usace.army.mil

Source: Original project description summarized from the *Central and Southern Florida Project Comprehensive Review Study (Restudy) (1999)*. Cost estimate information is updated to reflect current price levels in October 2009 dollars. Actual expenditures include all federal expenditures through FY09 (Sept, 2009) and sponsor verified and recorded in kind credit through 4th quarter FY07.

Additional Information:

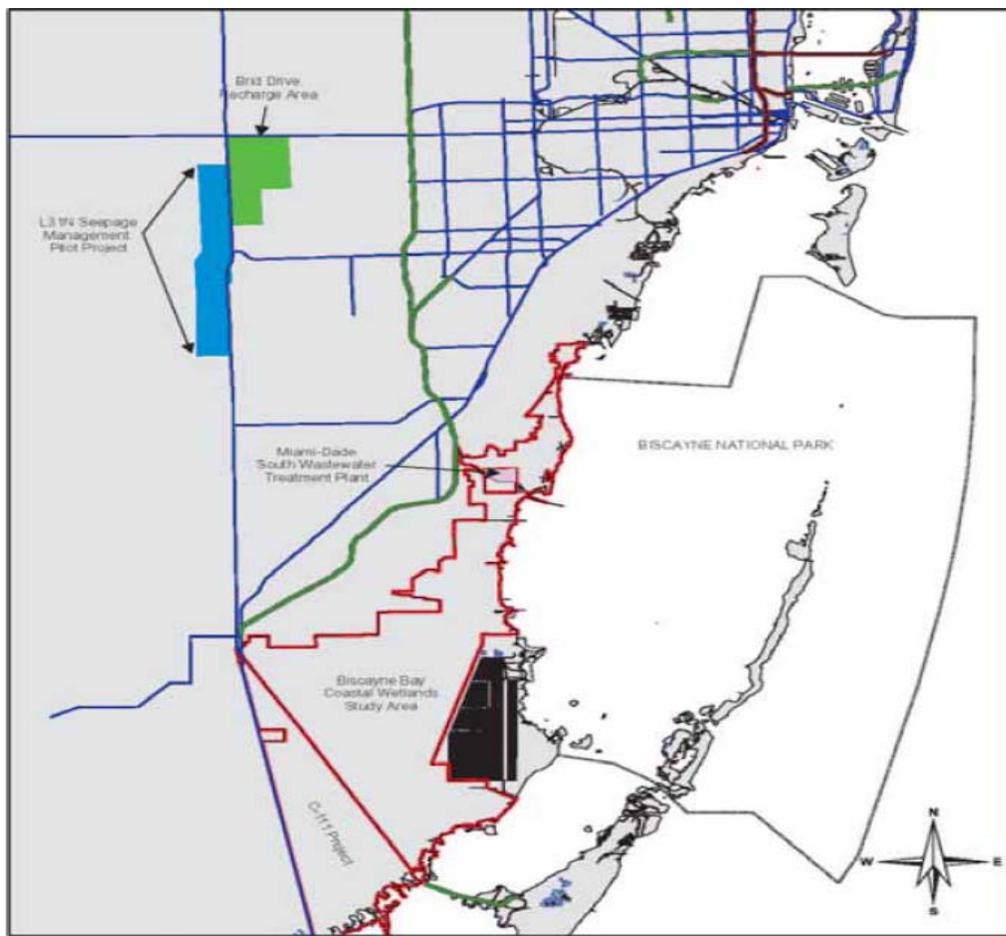


FIGURE B-1: PRELIMINARY PROJECT STUDY AREA