

Project Name: C&SF: CERP Biscayne Bay Coastal Wetlands (FFF) (OPE)
Project ID: 2309 (CERP Project WBS # 28)
Lead Agency: USACE / SFWMD
Authority: Not authorized
Funding Source: Federal/State

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

Measurable Output(s): 1,695 acres of restored wetlands

- Saltwater wetlands, acres of lift = 1,242
- Freshwater wetland, acres of lift = 453
- Sensitivity analysis provides a range from 453 to 1,219, depending upon seepage rate used for the calculation. (*Lower number is used in the final CBEEM analysis*).

April 1999 (Restudy) Project Synopsis: Includes pump stations, spreader swales, stormwater treatment areas, flow ways, levees, culverts, and backfilling canals located in southeast Miami-Dade County and covers 13,600 acres from the Deering Estate at C-100C, south to the Florida Power and Light Turkey Point power plant, generally along L-31E. The component Biscayne Bay Coastal Canals as modeled in D-13R and the Critical Project on the L-31E Flowway Redistribution are smaller components of the Biscayne Bay Coastal Wetlands feature.

Current Project Synopsis: The proposed project will replace lost overland flow and partially compensate for the reduction in groundwater seepage by redistributing, through a spreader system, available surface water entering the area from regional canals. The goal is to improve the ecological health of Biscayne Bay (including freshwater wetlands, tidal creeks and near-shore habitat) by adjusting the quantity, quality, timing, and distribution of freshwater entering Biscayne Bay and Biscayne National Park. The primary means to accomplish this goal is through the redistribution of freshwater flow and the expansion and restoration of wetlands adjacent to southwestern Biscayne Bay (in Miami-Dade County) and to maintain sustainable biological communities. Potential sources of water will be identified and evaluated to determine their ability to provide the target flows.

The project will capture, treat, and redistribute freshwater runoff from the watershed into Biscayne Bay, creating more natural water deliveries, expanding spatial extent and connectivity of coastal wetlands, and providing improved recreational opportunities. The proposed changes for freshwater flow are expected to restore or enhance freshwater wetlands, tidal wetlands, and near shore bay habitat. Diversion of canal discharges into coastal wetlands is expected not only to reestablish productive nursery habitat all along the shoreline, but also to reduce the abrupt freshwater discharges that are physiologically stressful to fish and benthic invertebrates in the bay near canal outlets. Improving salinity distribution near the shoreline with sustained lower-than-seawater salinities in tidal wetlands can help to reestablish productive nursery habitat for shrimp and shellfish.

Reviews of the BBCW Adaptive Management Strategy, the Regional Evaluation, and the Monitoring Plan are completed and an alternative formulation briefing (AFB) was held December 2007

In February 2008, it was decided to divide the project into two phases. Phase I consists of design and construction of *three* essential components: (1) Deering Estate Flowway; (2) Cutler Ridge Wetlands; and (3) L-31 East Flow Way to restore the quantity, quality, timing, and distribution of freshwater to the Biscayne Bay and estuary and the Biscayne National Park. Miami- Dade County has already constructed a portion of the proposed Deering Estate Flowway. Phase 2 is expected to address the remaining features of alternative 'O'.

Project 2309 C&SF: CERP Biscayne Bay Coastal Wetlands Page 1 of 4

The SFWMD has been advancing the design and construction of Phase 1 as a state expedited project.

Current Status: Independent Peer Review (external) has been completed and the Draft PIR for Phase 1 was resubmitted in December 2009 to USACE HQ. The PDT is currently completing the final Project Implementation Report (PIR). A Civil Works Review Board on the final PIR/NEPA for Phase 1 is scheduled for August 2010. Dependent on the Chief of Engineers, the Assistant Secretary of the Army (CW) submission to Congress isn't expected before 2011; along with the BCOE of the final plans and specs.

Est. Cost: \$ 457,627,000 (Phase 1 and 2)

Project Schedule:

2010 Phase 1 state expedited construction begun.
2012 Phase 1 construction physically complete.
TBD Phase 2

Detailed Project Budget Information (rounded):

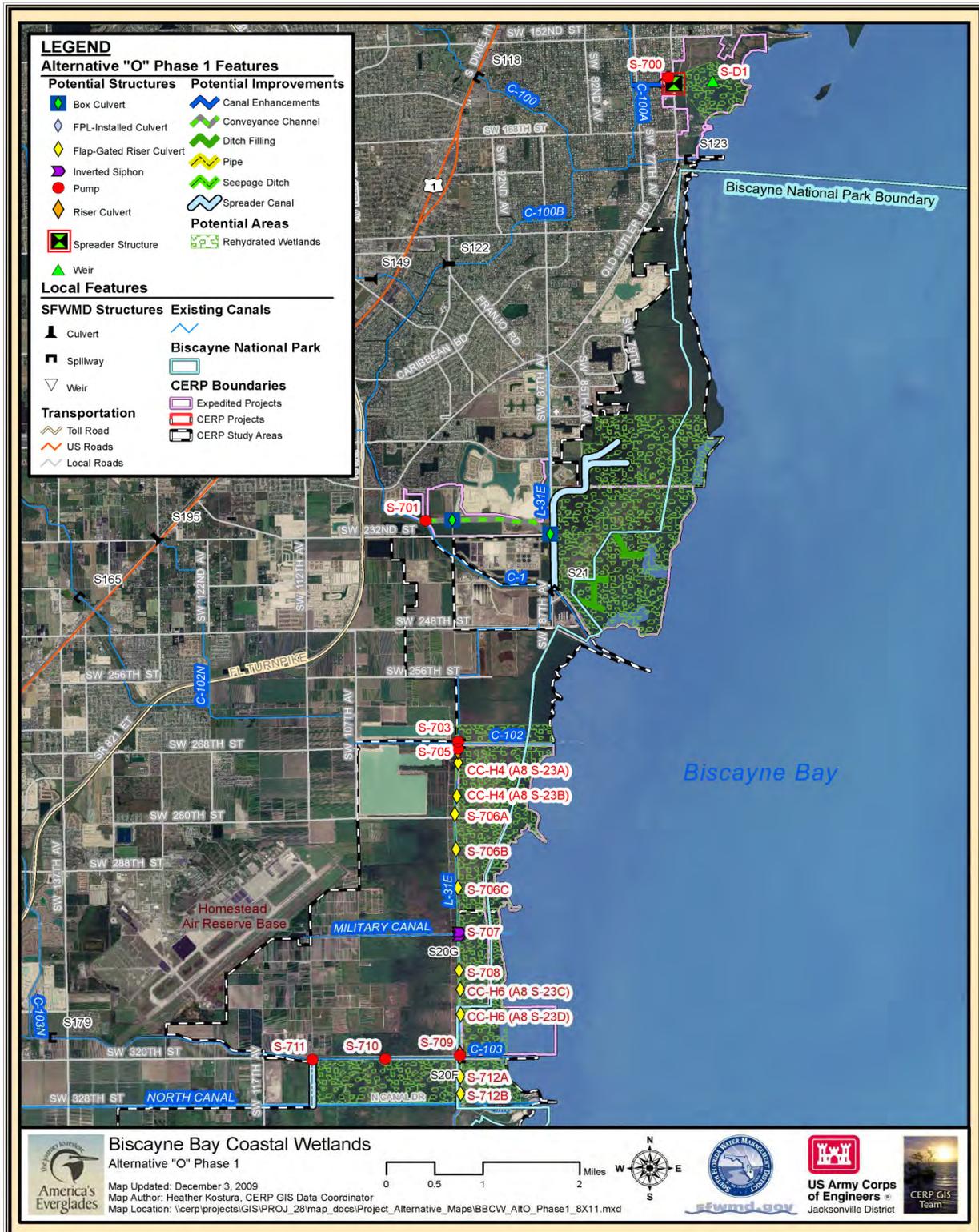
Biscayne Bay Coastal Wetlands	Expenditures Thru FY 2009
USACE	\$9,683,236
SFWMD	\$1,966,238
Total	\$11,649,474

Hyperlinks: http://www.evergladesplan.org/pm/projects/proj_28_biscayne_bay.cfm

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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. Current status information summarized from draft PIR and AFB briefing documentation. Schedule is updated based on the approved *Integrated Delivery Schedule Through 2020* (February 10, 2010).



Program Name Infrastructure
Project Name: C&SF: CERP - Biscayne Bay Coastal Wetlands Phase I (FFF) (OPE) - Expedited Project
Project ID: 2309A (Formerly project ID 1410A) (CERP Project WBS# 28)
Lead Agency: SFWMD
Authority: Memorandum of Agreement Regarding Acceleration of the CERP
Funding Source: State

Strategic Plan Goal(s) Addressed: Other

Measurable Output(s): Freshwater wetland, tidal wetland, near-shore habitat restoration, flood protection, recreation.

Project Synopsis: This SFWMD expedited project is a component of a larger project that will expand and restore the wetlands adjacent to Biscayne Bay in Miami-Dade County, enhancing the ecological health of Biscayne National Park. It will restore natural water flows to Biscayne Bay and Everglades National Park and will improve salinity distribution near the shoreline, which will reestablish productive nursery habitats for shrimp, shell fish and near-shore habitat. This project consists of the design and construction of three essential components - Deering Estates Flow-way, Cutler Ridge Wetlands and L-31E Culverts. Project features include pump stations, canal extensions, conveyance canals, spreader canals, levees, culverts and man-made wetlands.

Current Status: Design is complete. Construction is complete on the L-31E Culverts. A groundbreaking was held for the Deering Estates component in May, 2010. Construction is scheduled to begin in FY11 on the Cutler Flow-way.

Total Estimated Project Cost: \$43, 218,332 (includes design, land management and construction)

Scheduled Construction Start Date: FY09 (funding issues in FY08)

Scheduled Project Completion Date: FY11

Actual Expenditures to date by SFWMD*:

	Thru 2005	2006	2007	2008	2009	Total
SFWMD	\$718,510	\$1,143,559	\$5,631,921	\$726,412	\$65,243	\$8,285,645

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*Credit for accelerated work subject to inclusion in authorized Federal project.