

**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 complete 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'.

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

**Current Status:** Civil Works Review Board approval on the final PIR/NEPA for Phase 1 was received in December 2011. The Record of Decision and subsequent transmission to Congress occurred in September 2012. BBCW was authorized in WRRDA 2014. Execution of the Project Partnership Agreement (PPA) PPA is scheduled for FY15.

**Est. Cost:**                 \$ 210,942,115 (Phase 1)  
                                      \$ 277,279,309 (Phase 2)

**Project Schedule:**

2010                   Phase 1 state expedited construction began.  
2012                   Phase 1 state expedited construction expected to be physically complete.  
TBD                   Phase 2

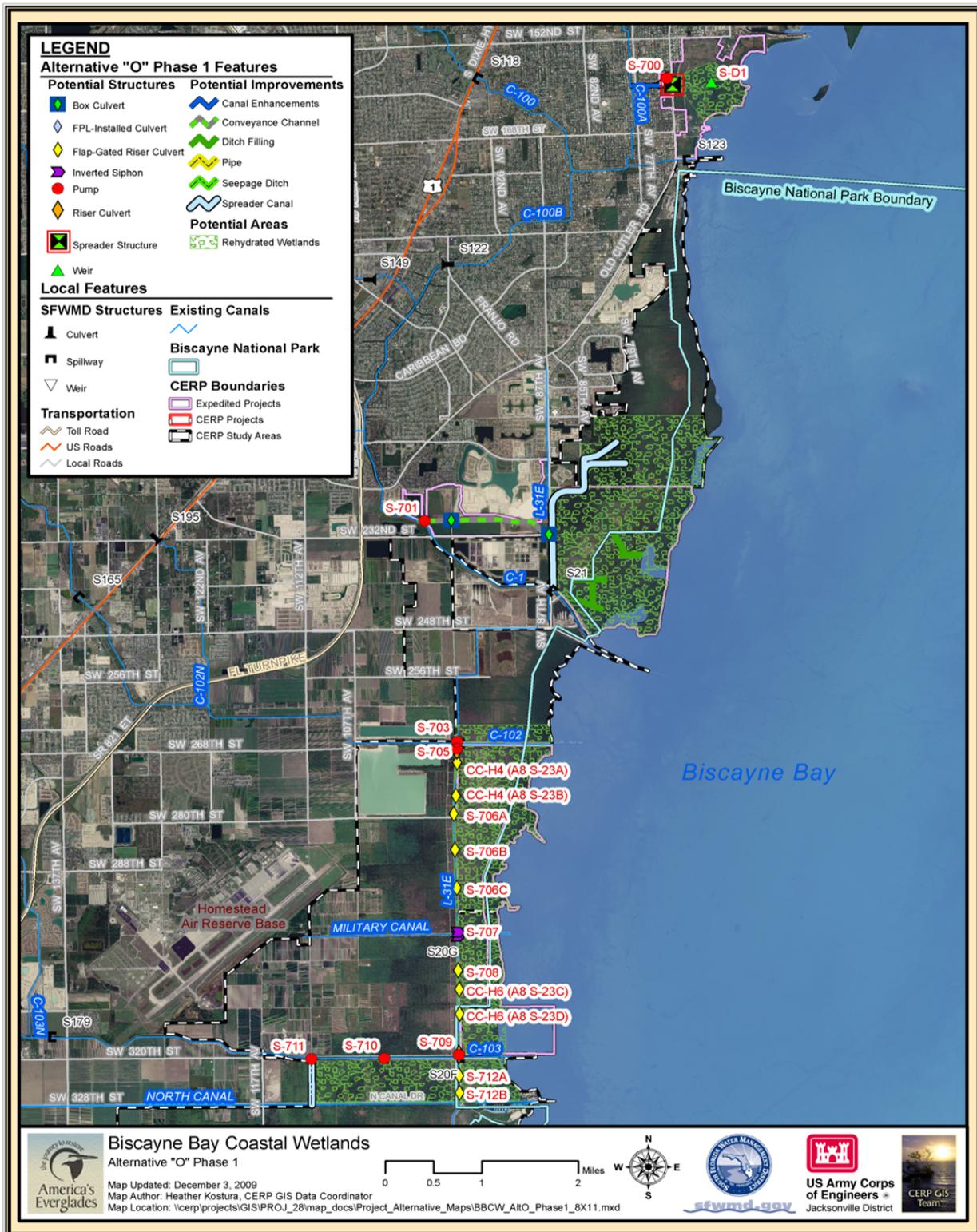
**Detailed Project Budget Information (rounded):**

<b>Biscayne Bay Coastal Wetlands</b>	<b>Obligations Thru FY 2013</b>
USACE	\$12,083,838
SFWMD	\$11,194,946
<b>Total</b>	<b>\$23,278,784</b>

**Hyperlinks:**           [http://www.evergladesplan.org/pm/projects/proj\\_28\\_biscayne\\_bay.cfm](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 2011 dollars. Actual expenditures include all federal expenditures through FY11 (July, 2011) and sponsor verified and approved in kind credit through 2nd quarter FY11. Current status information summarized from draft PIR and AFB briefing documentation.



**Program Name:** Infrastructure  
**Project Name:** C&SF: CERP - Biscayne Bay Coastal Wetlands Phase I (FFF) (OPE)  
**Project ID:** 2309A (Formerly project ID 1410A) (CERP Project WBS# 28) (PS# 100561)  
**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 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 components - Deering Estate Flow-way, Cutler Flow-way 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 of the L-31E Culverts was completed in June 2010. Construction of the Deering Estate component was completed January 2012. This portion of the project is currently in operation and monitoring is being conducted for ecological, water quality, and hydrometeorological effects of the project. A number of early ecological benefits have resulted from this portion of the project's implementation.

**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:** FY16 (subject to funding availability for the Cutler Flow-way Component)

**Actual Expenditures to date by SFWMD\*\*:**

	Thru 2007	2008	2009	2010*	2011 (as of 6/15/11)	2012 (7/11 - 6/12)	2013	TOTAL
SFWMD	\$7,493,990	\$726,412	\$ 65,243	\$ 1,488,613	\$1,960,522	\$3,355,285	\$100,024	\$15,190,089

\* Updated as of September 30, 2010.

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

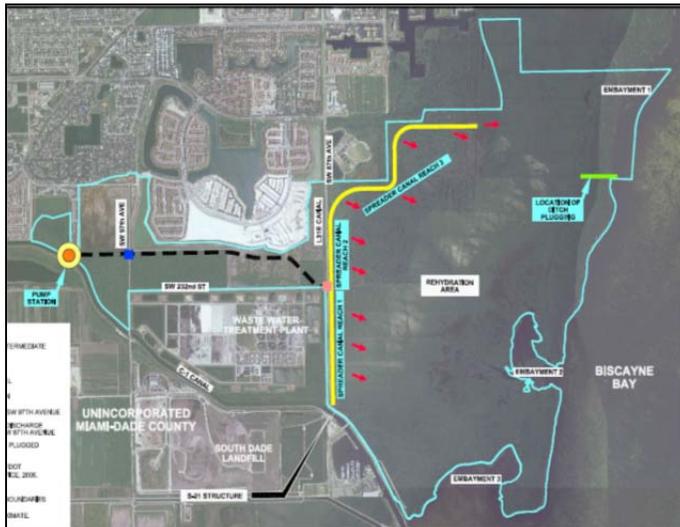
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[http://www.sfwmd.gov/portal/page/portal/xrepository/sfwmd\\_repository\\_pdf/bisc\\_coastal\\_wtlnds\\_proj\\_update.pdf](http://www.sfwmd.gov/portal/page/portal/xrepository/sfwmd_repository_pdf/bisc_coastal_wtlnds_proj_update.pdf)

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L-31E Culverts Component



Biscayne Bay Coastal Wetlands Phase I Cutler Flow-way Component



### Deering Estate Features