

BISCAYNE BAY COASTAL WETLANDS (BBCW) PROJECT

Project Update

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17 October 2018



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BISCAYNE BAY COASTAL WETLANDS

Purpose and Agenda

The purpose of this briefing is to provide an overview and update on the status of the Biscayne Bay Coastal Wetlands (BBCW) project.

Agenda:

- 1) Project Overview
- 2) Current Status
- 3) Path Forward



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BISCAYNE BAY COASTAL WETLANDS Project Overview

- **Authorized: WRRDA 2014**
- **Project Sponsor: SFWMD**
- **Cost Share: 50/50**

- **Estimated Total Cost: \$204,900,000**
- **Estimated Federal Cost: \$102,450,000**
- **Estimated non-Federal Federal Cost: \$102,450,000**

- **Total allocation through FY 2018: \$111,476,000**
- **Total remaining to complete: \$93,424,000**

- **FY18 Allocation: \$0**
- **FY19 President's Budget / Budget: \$0**

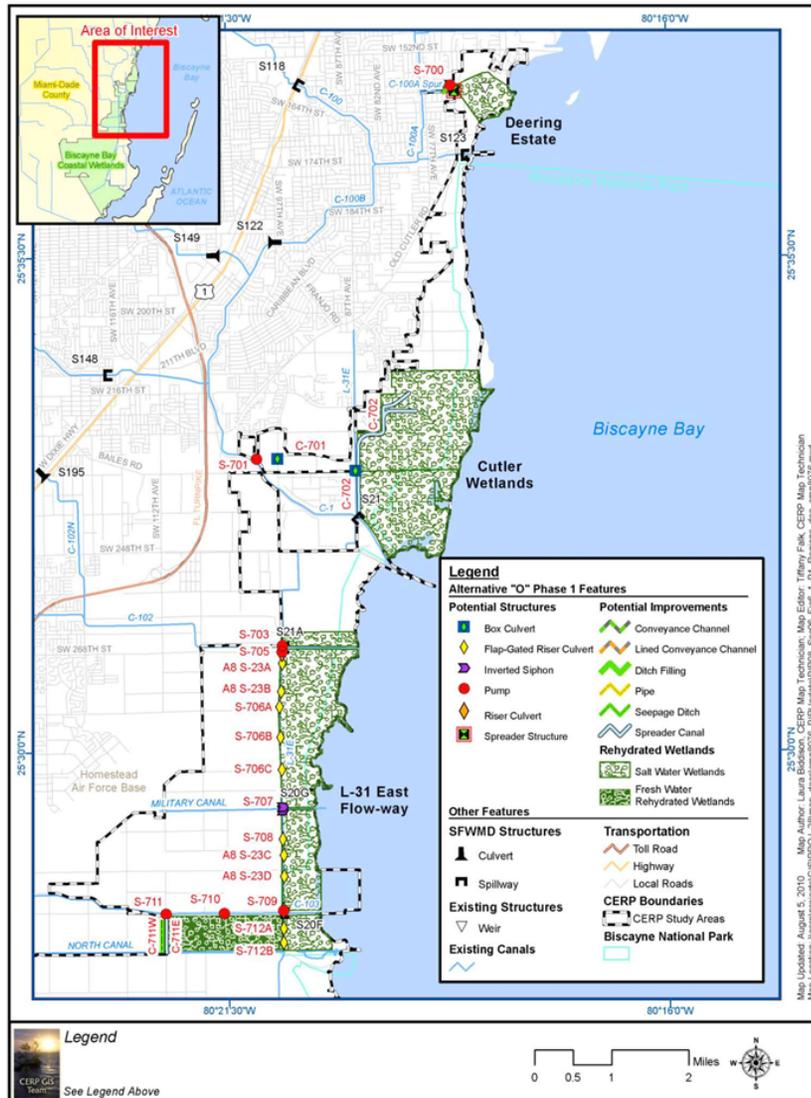
- **Scheduled completion: 2022**



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BISCAYNE BAY COASTAL WETLANDS Project Purpose



- Improve delivery efficiency within Biscayne National Park
- Redistribute freshwater flow and minimize point source discharges
- Preserve and restore natural coastal wetlands habitat
- Re-establish connectivity between coastal and adjacent wetlands
- Deliver fresh water to historical tidal creeks
- Hydrate areas (tidal wetlands) susceptible to hypersaline conditions during extended dry periods
- Improve near shore salinity regimes and re-establish productive nursery habitat

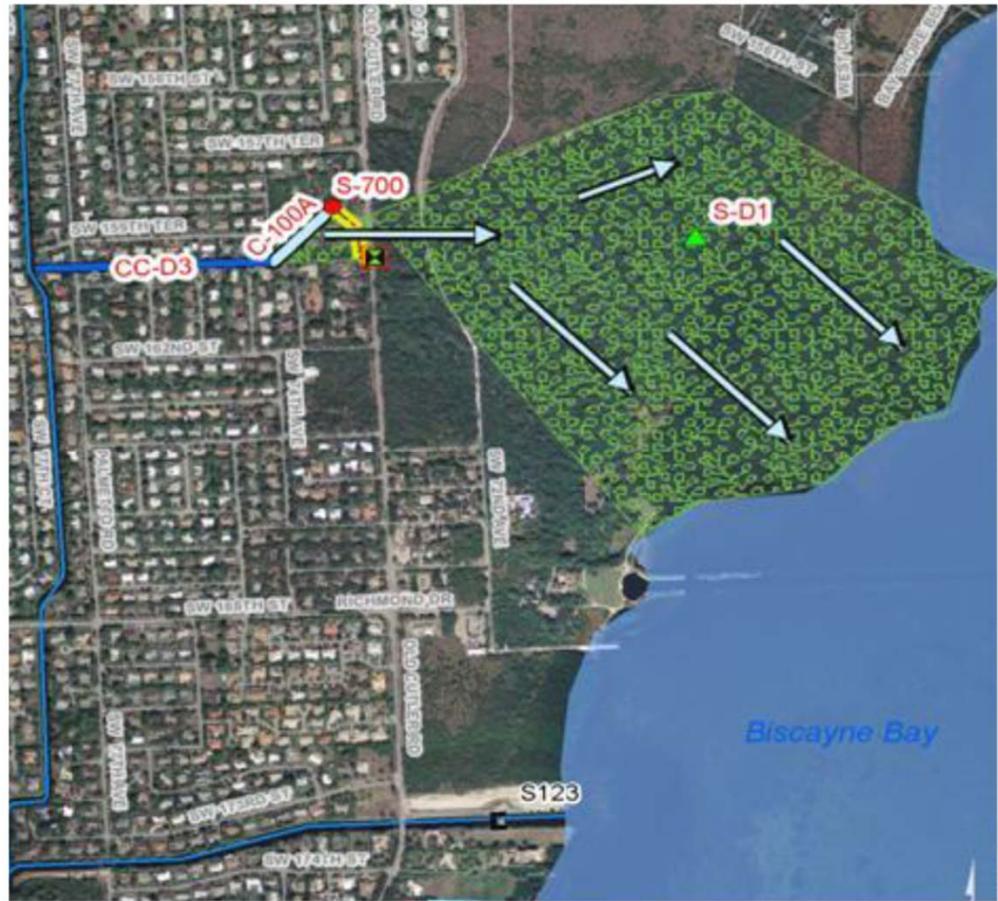


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BISCAYNE BAY COASTAL WETLANDS

Deering Estates



Construction Completed April 2012

- 190 acres of freshwater wetlands benefit from freshwater rehydration.
- Hydroperiods in target freshwater wetlands will increase from ~ 70 to 200 days per year.
- Improved oyster bars, submerged aquatic vegetation, wetland vegetation, and associated biota.
- Increased abundance of fish and abundance and diversity of seagrasses.
- Improved habitat for alligators and juvenile crocodiles.
- Produce high-functioning grassy wetlands that will serve as critical habitat to prey fish and wading birds.
- Out of the total available 22,500 acres of saltwater wetlands, this project will increase saltwater wetland function from 1,002 habitat units to 7,398 habitat units (net of 6,396 acres of functionality).



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BISCAYNE BAY COASTAL WETLANDS

L-31 East Flowway



Provides ecosystem restoration benefits by distributing freshwater flows along the coast and near shore, including Biscayne National Park.



Construction Period 2016-2021

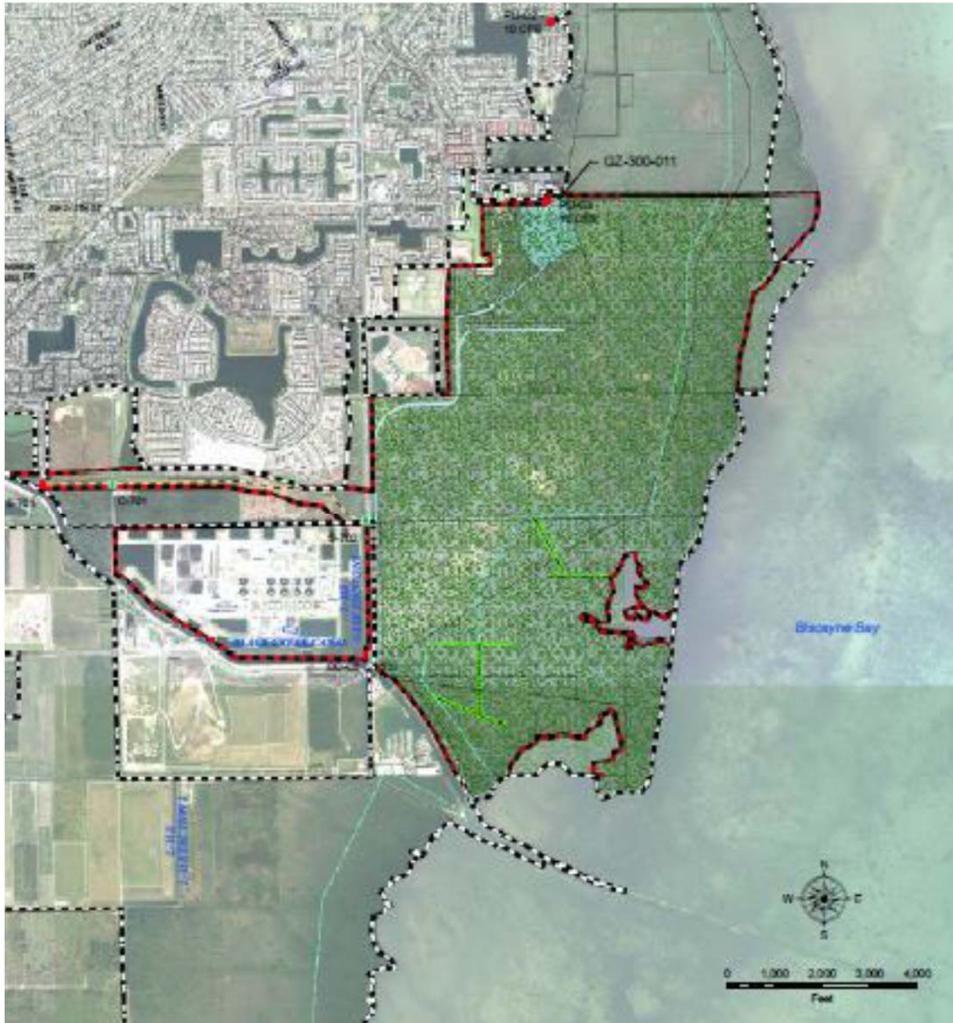


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Cutler Wetlands



Features include a 400 cfs pump, culverts, a canal, and restoration of the Lennar Flow-way:

- Intake Canal, S-701 (40 cfs)
- Pump Station, S-701 (400 cfs).
- Concrete-lined Channel, C-701.
- Spreader Channel, C-702.
- Culvert crossing at 87th Avenue and 97th Avenue.
- Mosquito control ditch plugs.

Construction to Commence in 2020



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Interagency Collaboration

Miami-Dade County owns and provides the use of 1,254 acres of land for the project via an agreement with South Florida Water Management District..

The Biscayne Bay National Park supports all efforts to rehydrate the park and is specifically interested in improved water quality to Biscayne Bay.

The National Oceanic and Atmospheric Association (NOAA) supports ecological monitoring activities to measure success of the progress against other projects of CERP.

The Corps/SFWMD funds the project effort and will cost share in O&M as a CERP project.

The DOI strongly supports efforts of construction and participates through ecological monitoring to detect and monitor oysters, submerged aquatic vegetation, estuarine fishes and salinity.



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BISCAYNE BAY COASTAL WETLANDS

Construction Status

Contract	Items within the Contract	Construction Schedule
Contract 1 Deering Estate (SFWMD)	<ul style="list-style-type: none"> • C-100A Spur Canal Extension (intake canal), 580 linear feet (LF). • S-700 Pump Station (100 cfs) • 560 LF – 60-inch Concrete Pipe • Culvert Crossing at Old Cutler Road (75 LF) • Outflow Structure • Wetland (2.5 acres) 	Construction Complete
Contract 2 L-31E Flow-way Culverts (SFWMD)	<ul style="list-style-type: none"> • Four (4) CMP culverts with flap gates and manatee barriers (50 LF long) 	Construction Complete
Contract 3 L-31E Flow-way North of North Canal (USACE)	<ul style="list-style-type: none"> • Two (2) CMP culverts with flap gates and manatee barriers (S-712A & B) 	Construction Complete
Contract 4 Four (4) Culverts in L-31E (SFWMD)	<ul style="list-style-type: none"> • Project Culverts S-706A, B, & C, and S-708 	Construction Complete
Contract 4 L-31E Flow-way (USACE)	<ul style="list-style-type: none"> • Pump Station, S-709 (40 cfs) • Project Culvert-S-709 at C-103 and L-31E Canal intersection 	Award in FY19
Contract 5 L-31 E Flow-way North Canal Wetlands (USACE)	<ul style="list-style-type: none"> • Pump Station, S-703 (50 cfs) • Pump Stations, S-705 (100 cfs) • Pump Station, S-710 (40 cfs) • Pump Stations, S-711 (40 cfs) • Spreader Canal, SC-711E • Seepage Collection Ditch, C-711W 	Award in FY20
Contract 6 Cutler Wetlands (SFWMD)	<ul style="list-style-type: none"> • Intake Canal, S-701 • Pump Station, S-701 (400 cfs) • Cement Lined Channel, C-701 • Spreader Channel, C-702 • Culvert crossing at 87th Avenue • Culvert Crossing at 97th Avenue • Mosquito control ditch plugs 	Award in FY20 (SFWMD)



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Remaining Efforts

Phase 1

- Complete construction of L-31 East Flowway
 - USACE Contract 4 and Contract 5
- Complete construction of Cutler Wetlands
 - SFWMD Design
 - SFWMD Construction

Phase 2

- Project Implementation Report scheduled for initiation in FY21



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