

BISCAYNE BAY AND SOUTHEASTERN EVERGLADES ECOSYSTEM RESTORATION (BBSEER) PROJECT

Overview

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Jacksonville District

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Purpose and Agenda

Purpose: Provide a summarized overview of the Biscayne Bay and Southeastern Everglades Ecosystem Restoration (BBSEER) project

Agenda:

- Background
- PMP Development
- Scope
- Schedule
- Budget
- Path Forward

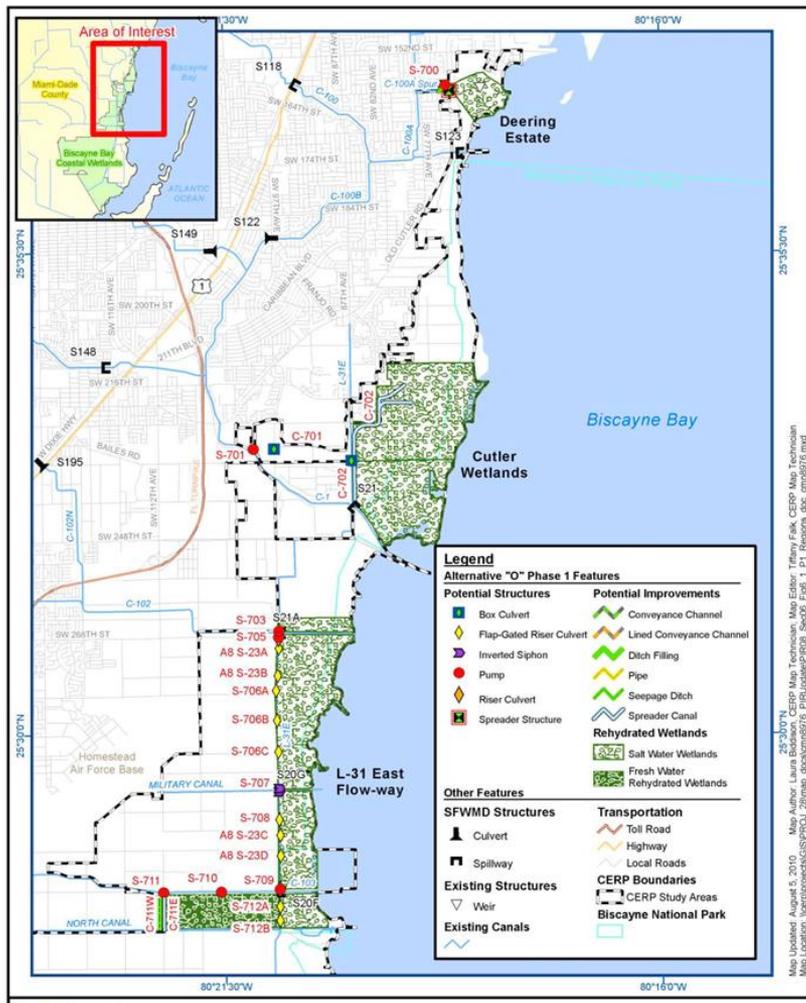


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Background

Biscayne Bay Coastal Wetlands Phase 1 (BBCW)



Authorized: WRRDA 2014

- Project Sponsor: SFWMD
- Scope
 - Deering Estates
 - Cutler Wetlands
 - L-31 Flow-way improvements
- Scheduled Completion: 2022
- Project Cost: \$211,800,000
- Cost Share: 50/50



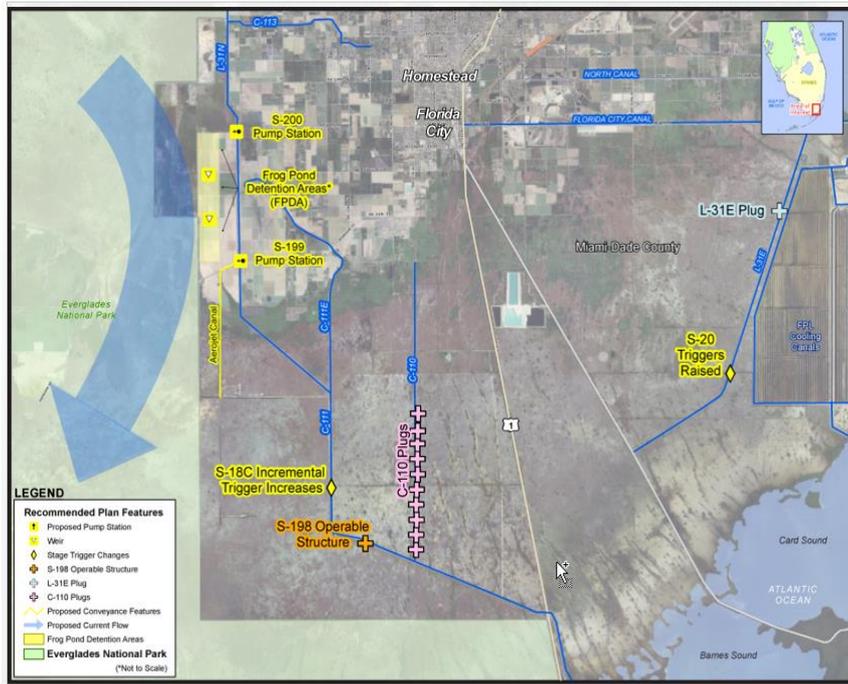
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Background

C-111 Spreader Canal Western (C-111 SCW)

Authorized: WRRDA 2014



- **Project Sponsor: SFWMD**
- **Scope**
 - **Hydraulic ridge** – two new pump stations (S-200 and S-199) and two new retention areas (Frog Pond Detention Area and Aerojet Canal)
 - Additional features include plugs in the C-110 and L-31E, and operational changes at S-18C and S-20
- **Scheduled Completion: 2023**
- **Project Cost: \$174,560,000**
- **Cost Share: 50/50**



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PMP Development: Scope Schedule Budget



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PMP Development

Summary Timeline

SFWMD requested PMP development	Jan 2019
SFWMD requested BBCW2 and C-111 ESC	Jul 2019
Draft PMP presented to BBRRCT	Jul 2019
Draft PMP comments received	Sep 2019
USACE/SFWMD in-person scoping meeting	Feb 2020
Draft PMP with revised scope disseminated	Apr 2020
Final PMP scheduled for approval	May 2020
PIR kick-off scheduled	Jul 2020



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PMP Development

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..

Biscayne 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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*Project Scope

The purpose of the project is to improve the quantity, potential quality, timing and distribution of freshwater to Biscayne Bay, including Card Sound and Barnes Sound and Biscayne National Park, to improve of natural coastal glades habitat in the Model Lands and Southern Glades, and to improve resiliency of these coastal habitats in light of seal level change.

The BBSEER study will consider changed conditions, reassess prior assumptions, and use new information that was unavailable during the BBCW1 and C-111 SCW studies. These changes include the well documented increase locally in sea level rise rate, future sea level projections, the results of ongoing monitoring and new scientific information from the last 15 years on Biscayne Bay and adjoining areas, revised engineering and C&SF system operations in place or in process that will be in place, as well as other existing programs that would provide synergy to this effort.

In addition to BBCW Phase 2 and C-111 SCE components, the scope of the study will include other CERP components that contribute flow to Biscayne Bay, the Model Lands, and/or the Southern Glades area to include:

- South Miami Dade County Reuse
- West Miami Dade Reuse
- North Lake Belt

**Project scope will be further defined during development of the PIR*



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Objectives

1. **Improve** freshwater and estuarine habitat, including estuarine nursery habitat along the shoreline.
2. **Restore and improve** quantity, quality, timing, distribution of freshwater to Biscayne Bay, including Biscayne National Park, and in the wetlands of the Eastern Panhandle of ENP, Southern Glades, and Model Lands.
3. **Improve** connectivity between Biscayne Bay coastal wetlands, the Model Lands, and Southern Glades.
4. **Restore** nearshore and saltwater wetland salinity regimes to the extent practicable.
5. **Increase** resiliency of coastal habitats in southeastern Miami-Dade County to sea level change (SLC) and other consequences of climate change.

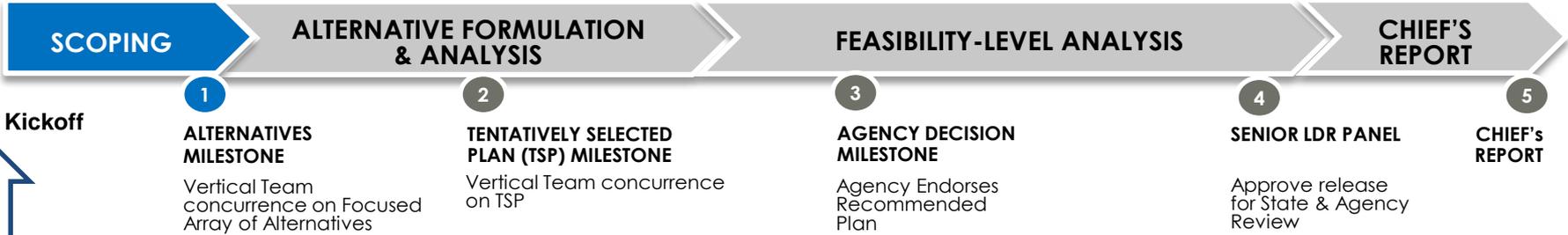


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36 Month Schedule

SMART PLANNING PROCESS



Kickoff

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BBSEER Phase 2 IS HERE

ACTIVITY	BASELINE	*SCHEDULE
Kickoff	Jul 2020	Jul 2020
1 - Alternatives Milestone	Apr 2021	Apr 2021
2 - Tentative Selected Plan Milestone	Oct 2021	Oct 2021
3 - Agency Decision Milestone	Apr 2022	Apr 2022
4 - Senior Leaders Panel Briefing	Mar 2023	Mar 2023
5 - Chief's Report	Jul 2023	Jul 2023

**The Schedule will be revised from the Baseline as the project goes forward*



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36 Month Budget

Fiscal Year	USACE Projected	SFWMD Projected
2020	\$83,000	\$84,000
2021	\$625,000	\$630,000
2022	\$707,000	\$736,000
2023	\$85,000	\$50,000
Total	\$1,500,000	\$1,500,000

Budget to complete Project Implementation Report (PIR)
 Budget will be further refined along with scope refinement

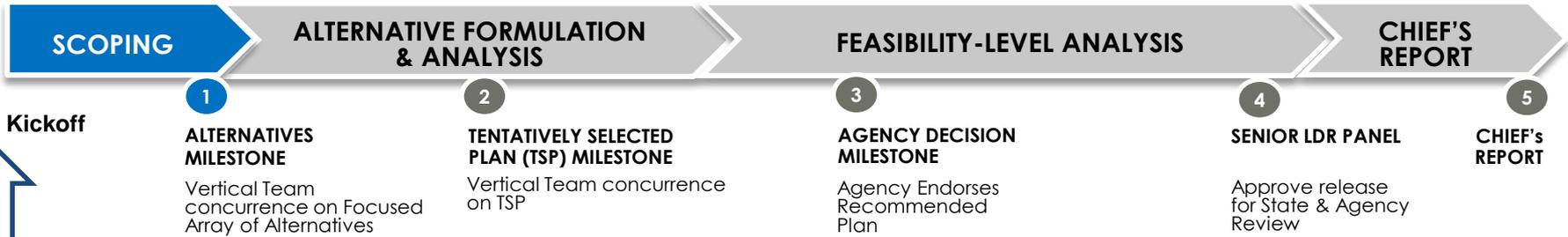


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54 Month Schedule

EXPANDED PROCESS



Kickoff
 BBSEER Phase 2 IS HERE

ACTIVITY	BASELINE	SCHEDULE
Kickoff	Jul 2020	Jul 2020
1 - Alternatives Milestone	Oct 2021	Oct 2021
2 - Tentative Selected Plan Milestone	Dec 2023	Dec 2023
3 - Agency Decision Milestone	Oct 2024	Oct 2024
4 - Senior Leaders Panel Briefing	Mar 2025	Mar 2025
5 - Chief's Report	Jul 2025	Jul 2025



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54 Month Budget

Fiscal Year	USACE Projected	SFWMD Projected
2020	\$104,000	\$104,000
2021	\$600,000	\$600,000
2022	\$600,000	\$600,000
2023	\$500,000	\$500,000
2024	\$300,000	\$300,000
2025	\$85,000	\$50,000
Total	\$2,250,000	\$2,250,000

Budget to complete Project Implementation Report (PIR)
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Path Forward

Remaining Efforts:

- Performance measure development
- Modeling tools identified and/or developed



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QUESTIONS?

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