

**U.S. ARMY CORPS OF ENGINEERS (USACE)  
JACKSONVILLE DISTRICT**

# **SOUTH FLORIDA ECOSYSTEM RESTORATION AND C&SF RESILIENCE PROGRAMS**

**SOUTH FLORIDA RESTORATION TASK FORCE**

**Joint Working Group and Science Coordination Group Meeting**

**Presented by: Eva B. Vélez, P.E. - Chief, Ecosystems Branch**

**6 September 2023**



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**US Army Corps  
of Engineers**

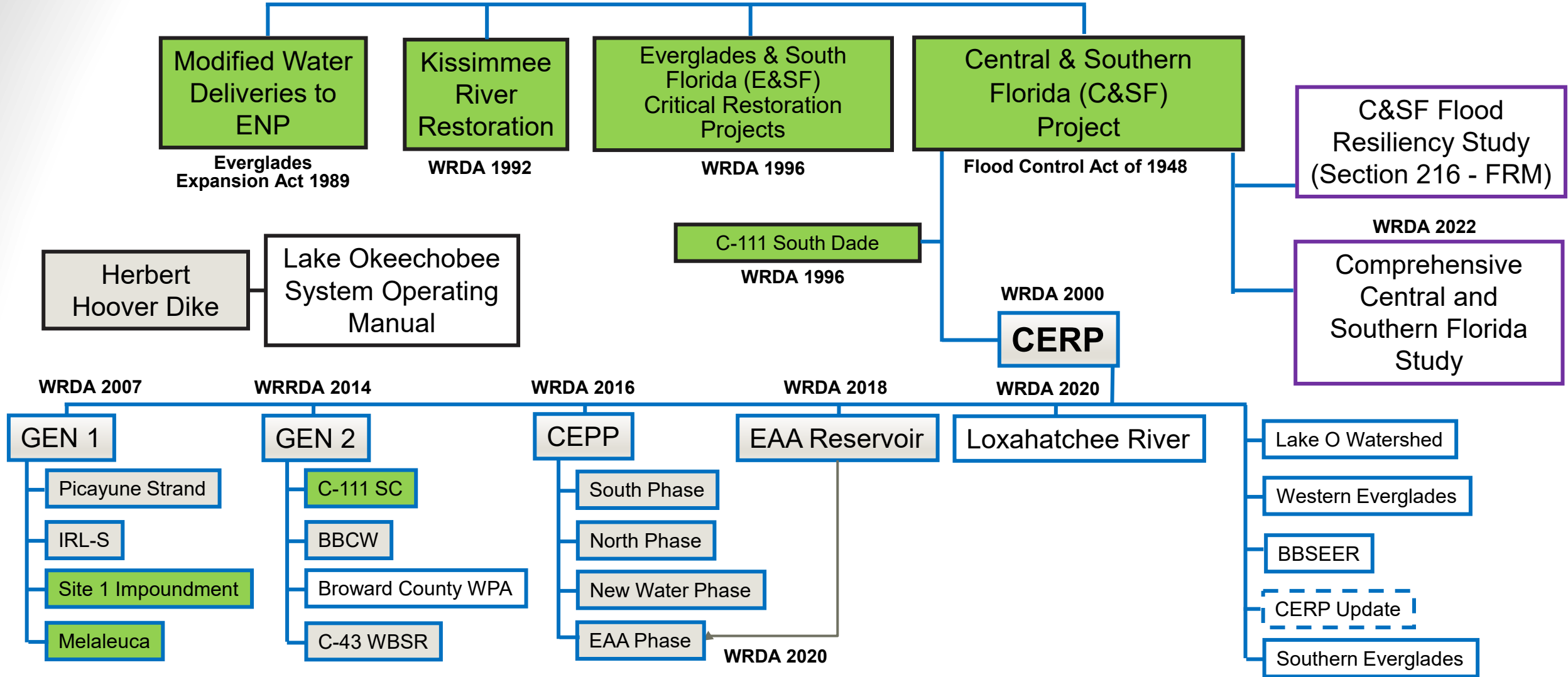


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# SOUTH FLORIDA ECOSYSTEM RESTORATION AND C&SF RESILIENCE PROGRAMS



## PROGRAM STRUCTURE



9/5/2023

  CONSTRUCTION ONGOING   
   CONSTRUCTION COMPLETE, IN OPERATIONS   
   FOUNDATION PROJECTS   
   INVESTIGATIONS

CERP: Comprehensive Everglades Restoration Plan  
 GEN: Generation; linked to Authorization  
 CEPP: Central Everglades Planning Project Legislation Dates = Original Authorization Date



# SOUTH FLORIDA ECOSYSTEM RESTORATION AND C&SF RESILIENCE PROGRAMS

## FY23 EXECUTION FOCUS



 FEASIBILITY    VALIDATION/PACR/OTHER    JOINT OR SFWMD-LED CONSTRUCTION

### ▪ FY23 Appropriations/BIL Funds

#### ▪ Program-level Activities

- ▶ National Academies of Science Review (CISRERP)
- ▶ Interagency Modeling Center (IMC)
- ▶ Integrated Delivery Schedule (IDS)
- ▶ RECOVER (Restoration, Coordination, VERification)
- ▶ Adaptive Assessment and Monitoring
- ▶ CERP Update

#### ▪ Planning

- ▶ Biscayne Bay and Southeastern Everglades Ecosystem Restoration (BBSEER)
- ▶ Lake Okeechobee Watershed Restoration Project (LOWRP)
- ▶ Western Everglades Restoration Project (WERP)
- ▶ Indian River Lagoon – South (IRL-S)
- ▶ Central Everglades Planning Project (CEPP)
- ▶ C&SF Flood Resiliency (Section 216) Study
- ▶ Lake Okeechobee Component A Reservoir (LOCAR)

### ▪ Design and Construction

- ▶ C-111 South Dade (C-111SD)
- ▶ Picayune Strand Restoration (PSRP)
- ▶ Indian River Lagoon – South (IRL-S)
- ▶ Biscayne Bay Coastal Wetlands (BBCW)
- ▶ Central Everglades Planning Project (CEPP)
- ▶ Broward County Water Preserve Areas (BCWPA)
- ▶ C-43 West Basin Storage Reservoir
- ▶ Loxahatchee River Watershed Restoration Project (LRWRP)

### ▪ Water Management and Operations and Maintenance

- ▶ Kissimmee River Restoration (KRR)
- ▶ Indian River Lagoon – South (IRL-S)
- ▶ Modified Water Deliveries, Combined Operational Plan (COP)
- ▶ Lake Okeechobee System Operating Manual (LOSOM)
- ▶ Central Everglades Planning Project Operational Plan
- ▶ C-43/C-44 Reservoirs Operational Plan
- ▶ Operations, Maintenance, Repair, Replacement and Rehabilitation (OMRR&R)



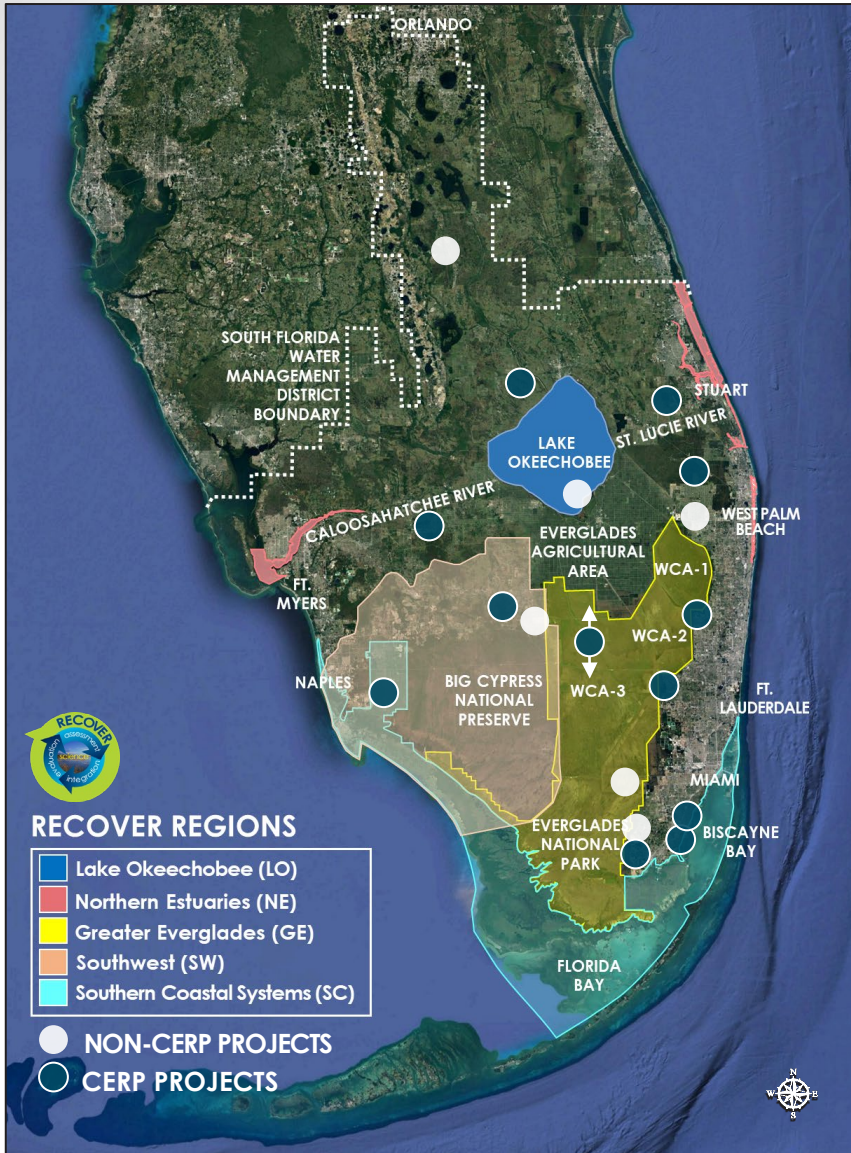


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## FY23 BUDGET OVERVIEW



	INVESTIGATIONS	CONSTRUCTION	OPERATIONS & MAINTENANCE	AUTHORIZING BILL/PRESIDENT'S BUDGET
South Florida Ecosystem Restoration (Annual)	\$0	\$452.332M	\$10.67M	FY23 Omnibus Bill
South Florida Ecosystem Restoration (Supplemental)	\$0	1.097B	\$0	Bipartisan Infrastructure Law (2022)
South Florida Ecosystem Restoration (Annual)	\$0	\$415M	\$12.9M	FY24 President's Budget
<b>FY24 J Sheet, Total Estimated SFER Programmed Construction Cost: \$ 23,617,006,000</b>				
Central and Southern Florida Resiliency Study (Section 216)	\$975K	\$0	\$0	FY22 + FY23 Appropriations
Comprehensive Central and Southern Florida Resilience Study (WRDA22)	\$0	\$0	\$0	New Authority in WRDA22



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# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM PROGRAM-LEVEL ACTIVITIES

*Today's Highlights:*

- Integrated Delivery Schedule (IDS)







# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM | PROGRAM LEVEL ACTIVITIES

## INTEGRATED DELIVERY SCHEDULE



### INTEGRATED DELIVERY SCHEDULE 2022 UPDATE - WORKING DRAFT

The Comprehensive Everglades Restoration Plan (CERP) is the largest coastal ecosystem restoration effort in the world, spanning 16,000 square miles. The program aims to improve the health of the Everglades, a 2.4 million-acre wetland system, and to restore the natural hydroperiod and water quality. The Integrated Delivery Schedule (IDS) is a key tool for managing the program's activities, providing a clear view of the project's progress and ensuring that all components are completed on time. The IDS is updated regularly to reflect changes in the program's scope and priorities. The 2022 update provides a detailed view of the program's activities through 2033, including the start and end dates for each activity, the responsible agency, and the estimated cost. The IDS is a living document that will be updated as the program evolves. The 2022 update is a working draft and is subject to change. The IDS is a key tool for managing the program's activities, providing a clear view of the project's progress and ensuring that all components are completed on time.

Activity	Start Date	End Date	Responsible Agency	Estimated Cost
Design	2022	2023	USACE	\$1,000,000,000
Construction	2023	2033	USACE	\$5,000,000,000
Operation & Maintenance	2023	2033	USACE	\$1,000,000,000

**06 Sept 2023**  
Release draft 2023 IDS Update

**15 Nov 2023**  
Release of Final 2023 IDS Update at Task Force

Activity	Start Date	End Date	Responsible Agency	Estimated Cost
Design	2022	2023	USACE	\$1,000,000,000
Construction	2023	2033	USACE	\$5,000,000,000
Operation & Maintenance	2023	2033	USACE	\$1,000,000,000

**EXPANDING THE RECOVER FOOTPRINT**  
The Comprehensive Everglades Restoration Plan (CERP) is the largest coastal ecosystem restoration effort in the world, spanning 16,000 square miles. The program aims to improve the health of the Everglades, a 2.4 million-acre wetland system, and to restore the natural hydroperiod and water quality. The Integrated Delivery Schedule (IDS) is a key tool for managing the program's activities, providing a clear view of the project's progress and ensuring that all components are completed on time. The IDS is updated regularly to reflect changes in the program's scope and priorities. The 2022 update provides a detailed view of the program's activities through 2033, including the start and end dates for each activity, the responsible agency, and the estimated cost. The IDS is a living document that will be updated as the program evolves. The 2022 update is a working draft and is subject to change. The IDS is a key tool for managing the program's activities, providing a clear view of the project's progress and ensuring that all components are completed on time.





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## SOUTH FLORIDA ECOSYSTEM RESTORATION AND C&SF RESILIENCY PROGRAMS

# PLANNING

### *Today's Highlights:*

- Biscayne Bay and Southeastern Everglades Ecosystem Restoration (BBSEER)
- Lake Okeechobee Watershed Restoration Project (LOWRP)
- Western Everglades Restoration Project (WERP)
- C&SF Flood Resiliency (Section 216) Study

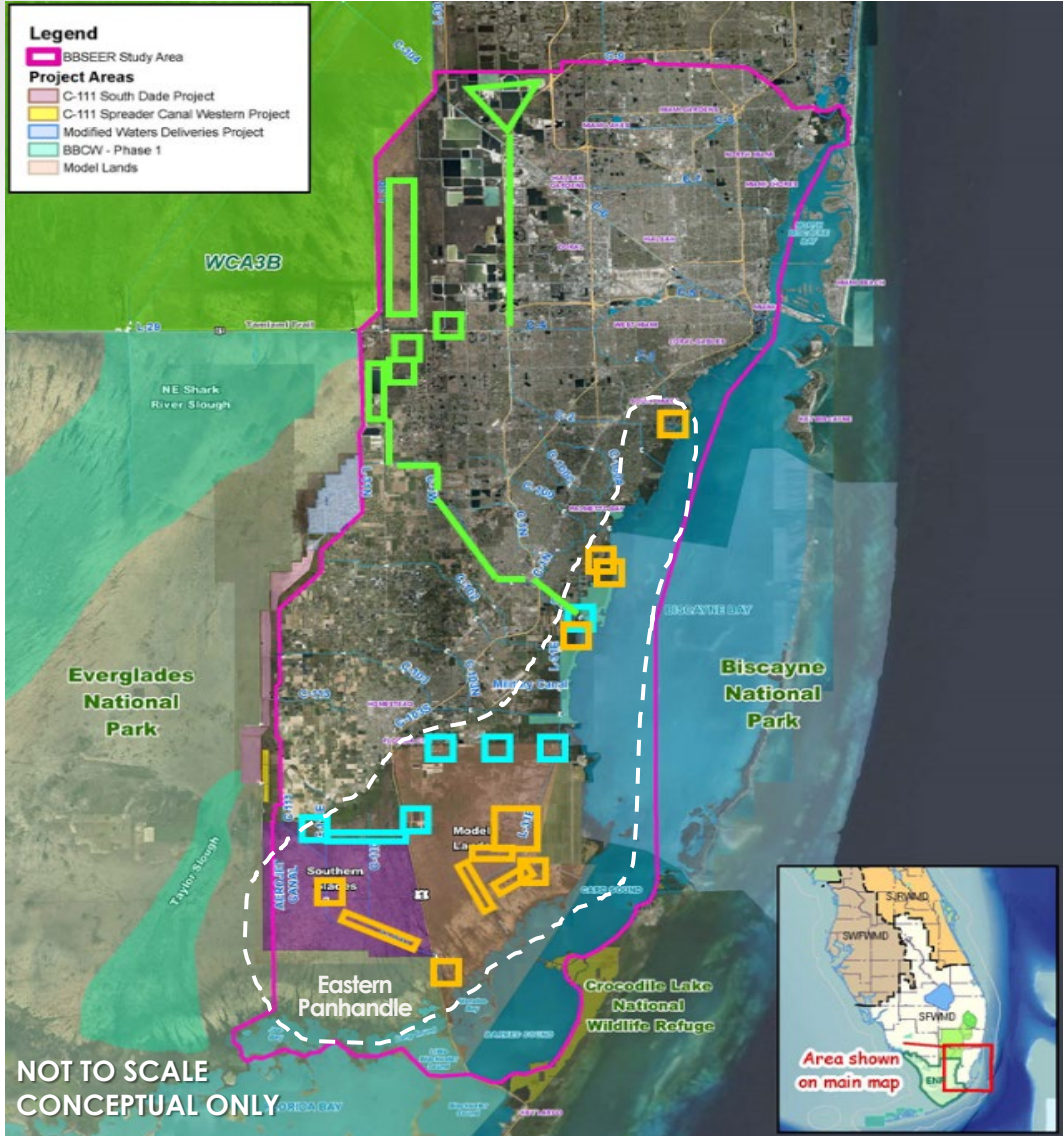




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# BISCAYNE BAY AND SOUTHEASTERN EVERGLADES ECOSYSTEM RESTORATION (BBSEER)



## Study Objectives:

- Improve quantity, timing and distribution of freshwater to **estuarine and nearshore subtidal areas**, including mangrove and seagrass areas.
- Restore freshwater depths, hydroperiods, and flows for dry and wet seasons in **terrestrial wetlands**.
- Restore **connectivity and habitat gradients** in areas compartmentalized by the C&SF system in the Southern Everglades, Model Lands, and Biscayne Bay Coastal Wetlands.
- Increase and restore **ecological resilience** in coastal habitats in southeastern Miami Dade County.

## Status:

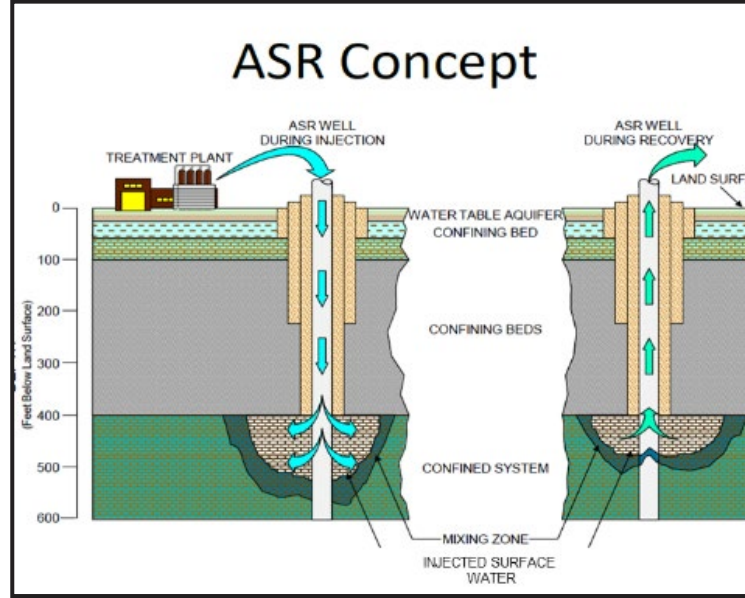
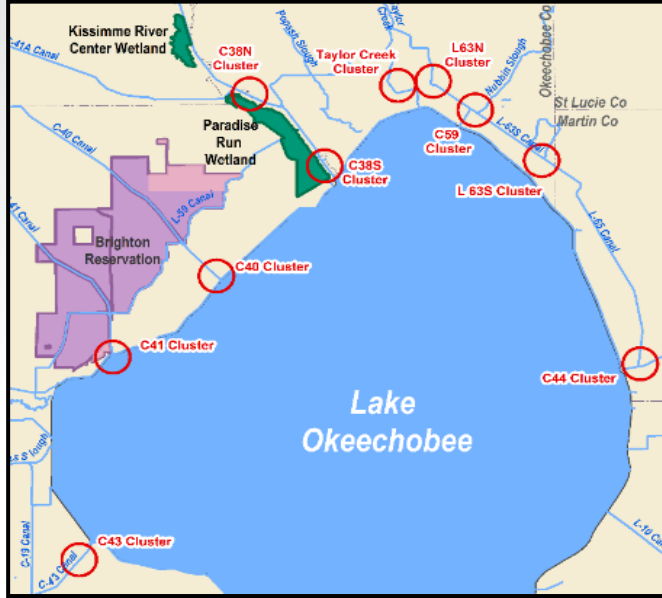
- Continued Engagement with Project Delivery Team (PDT).
- Completed Synthesis of Round 2 Modeling Results.
- Round 3 Alternatives formulated with PDT.
- Next step: Modeling of Round 3, Interagency Modeling Center,





# LAKE OKEECHOBEE WATERSHED RESTORATION PROJECT

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## COMPONENTS:

○ AQUIFER STORAGE AND RECOVERY (ASR) WELLS

■ WETLAND RESTORATION SITES

- Restore hydrology of isolated, riverine wetlands
- Paradise Run: ~ 4,700 acres
- Kissimmee River Center: ~ 1,200 acres
- Recreational facilities

## STATUS:

- Waiver Package for additional study time and budget under review
- First Report: LOWRP Wetlands Restoration Report – Target WRDA 2024
  - Target February 2024 Release of Final PIR/EIS
- Second Report: LOWRP ASR – Pending additional science from USACE Engineering and Research Development Center (ERDC)







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# WESTERN EVERGLADES RESTORATION PROJECT (WERP)



Images Courtesy of Big Cypress National Preserve

## WERP Study Objectives:

- Restore freshwater flow paths, flow volumes and timing, seasonal hydroperiods, and historic distributions of sheetflow to reestablish ecological connectivity and ecological resilience of the historic wetland/upland mosaic.
- Restore water levels to reduce wildfires associated with altered hydrology, which damage the underlying geomorphology and associated ecological conditions of the western Everglades.
- Restore aquatic low nutrient (oligotrophic) conditions to reestablish and sustain native flora and fauna.

## STATUS:

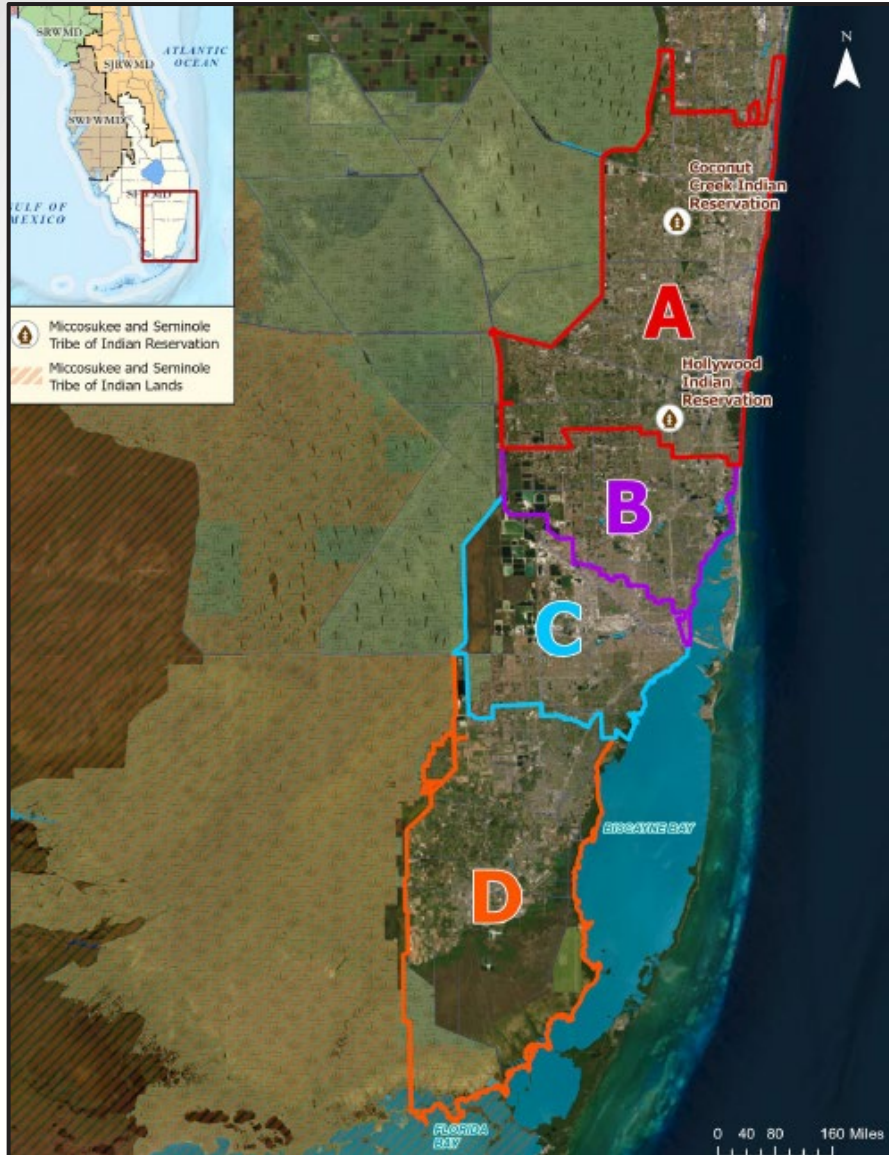
- Tentatively Selected Plan (TSP) updated August 2023 - Alternative Hybrid Natural Flow (HNFR)
- Waiver Package for additional study time and budget under review
- Ongoing Engineering, Policy and Legal review of North Feeder STA feature.
- Ongoing engagement with stakeholders and partners.
- Target late October 2023 Release draft Project Implementation Report (PIR)
- Target WRDA 2024





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# PLANNING: C&SF FLOOD RESILIENCY (SECTION 216) STUDY



## Study Objectives:

- **Reduce flood risks and damages** in Palm Beach, Broward, and Miami-Dade counties resulting from the combination of rainfall runoff, storm surge, high tide and/or high-water table to residences, businesses, and critical infrastructure.
- **Reduce potential life safety risk** in Palm Beach, Broward, and Miami-Dade counties due to flooding as a result of the combination of rainfall runoff, storm surge, high tides and/or water table.

## Status:

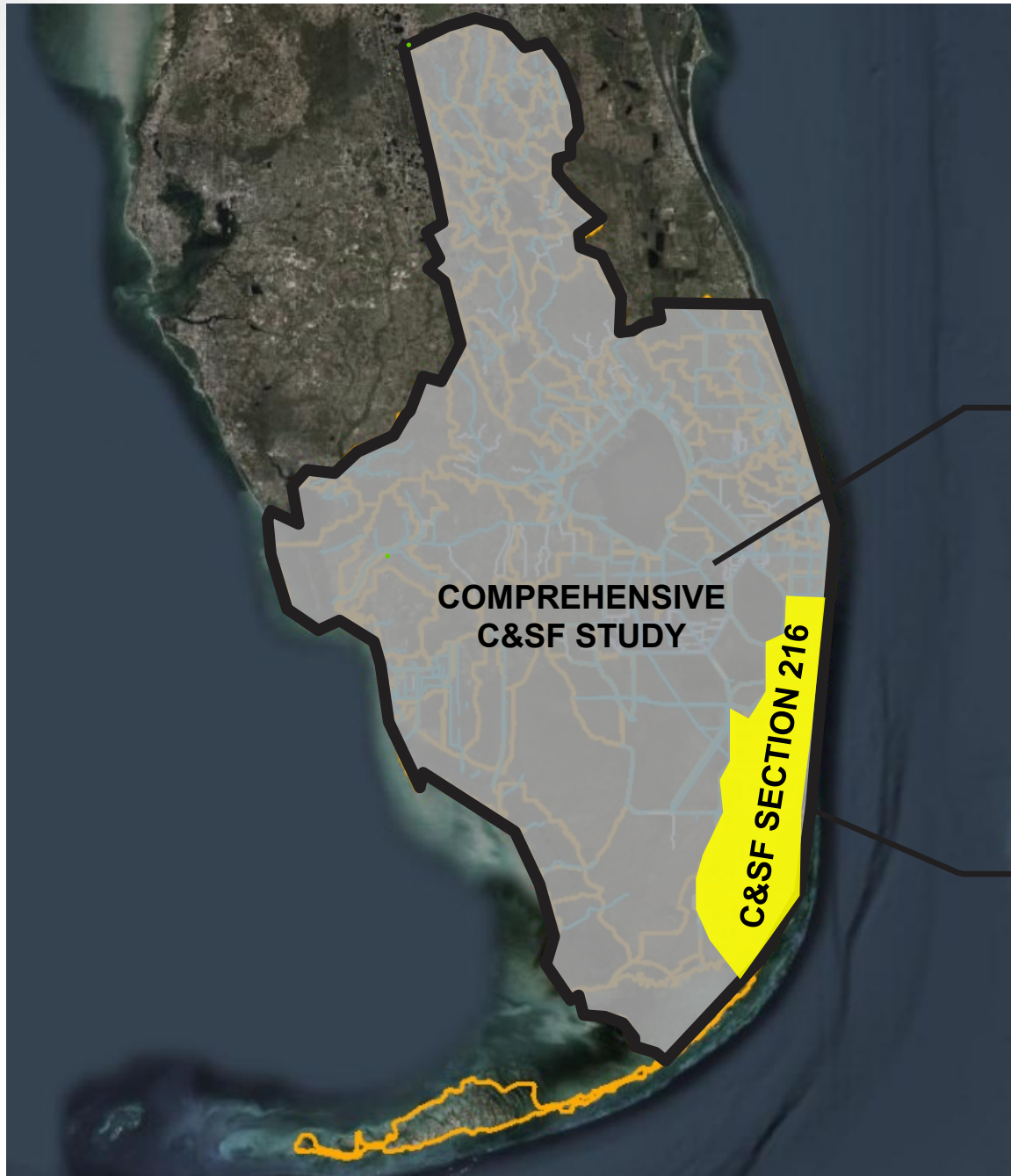
- Four (4) planning focus areas were identified for the study:
  - **Reach A:** Broward and Hillsboro Basins
  - **Reach B:** Little River and Nearby Basins
  - **Reach C:** Miami River and Nearby Basins
  - **Reach D:** South Miami Basins
- July 2023 Final recommended study scope to focus on enhancing the capacity of vulnerable coastal water/salinity control structures and adjacent primary canals.
- Study schedule 4-years and budget of \$11.3M. The study target completion for WRDA 2026.
- Ongoing engagement with stakeholders.



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# C&SF RESILIENCE PROGRAM PLANNING



## WRDA22, Section 8214

*Status: Pending*

### **Comprehensive C&SF Study**

- Multipurpose project focus on short-term and long-term solutions for community resiliency
- Focus on: Flood Risk Management; Water Supply; Ecosystem Restoration; Saltwater Intrusion; Recreation
- 18 counties, inland and coastal areas
- ~9 million population
- ~18,000 square miles
- Multiple Federal projects including CERP

## (Section 216)

*Status: Ongoing*

### **C&SF Flood Resiliency Study**

- Focus on coastal salinity structures for flood resilience
- 4 Planning Reaches / 3 Counties
- Many municipalities
- > 5 million population
- > 1,100 square miles





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# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM DESIGN AND CONSTRUCTION

## *Today's Highlights:*

- Picayune Strand Restoration (PSRP)
- Indian River Lagoon – South (IRL-S)
- Biscayne Bay Coastal Wetlands (BBCW)
- Central Everglades Planning Project (CEPP)
- Broward County Water Preserve Areas (BCWPA)



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# PICAYUNE STRAND RESTORATION PROJECT



Levee Construction – Southwest Protection Feature  
Aug 2023

The project will restore 55,000 acres of native Florida wetlands and uplands.

### **Total Project Benefits:**

- Conveyance of water will restore natural habitat
- Three pump stations: Merritt, Faka Union, and Miller.
- Plugging 48 miles of canals and removing/degrading 260 miles of roads.

### **Under Construction:**

- Miller Tram and Road Removal
- Southwest Conveyance Feature
- Southwest Protection Feature
- Miller Canal Clearing





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# INDIAN RIVER LAGOON – SOUTH PROJECT



C-23/C-24 Stormwater Treatment Area S-432 Box Culvert Construction, Aug 2023

The Indian River Lagoon and St. Lucie Estuary are two of the country's most productive and most threatened estuaries; the project will reconnect and restore natural areas in the headwaters and improve water flow to the river.

### In Design:

- C-23/C-24 North Reservoir - Anticipated award of the first increment of C-23/24 North Reservoir FY24

### Under Construction:

- C-23/C-24 Stormwater Treatment Area





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# BISCAYNE BAY COASTAL WETLANDS



S-709 Pump Station, fully operational, Aug 2023

The project will restore the natural pattern of freshwater inflows to Biscayne Bay.

## Total Project Benefits:

Conveyance and distribution of flows to rehydrate coastal wetlands, reduce point source discharges, and redistribute surface water; improve the ecology of Biscayne Bay.

## Under Construction:

- Pump stations S-703, S-705, S-710, and S-711
- Successful Ribbon Cutting, S-709, August 2023







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# CENTRAL EVERGLADES PLANNING PROJECT



The Central Everglades Planning Project (CEPP) focuses restoration on more natural flows into and through the central and southern Everglades by increasing storage, treatment and conveyance of water south of Lake Okeechobee; removing canals and levees within the central Everglades and retaining water within Everglades National Park.

## Status:

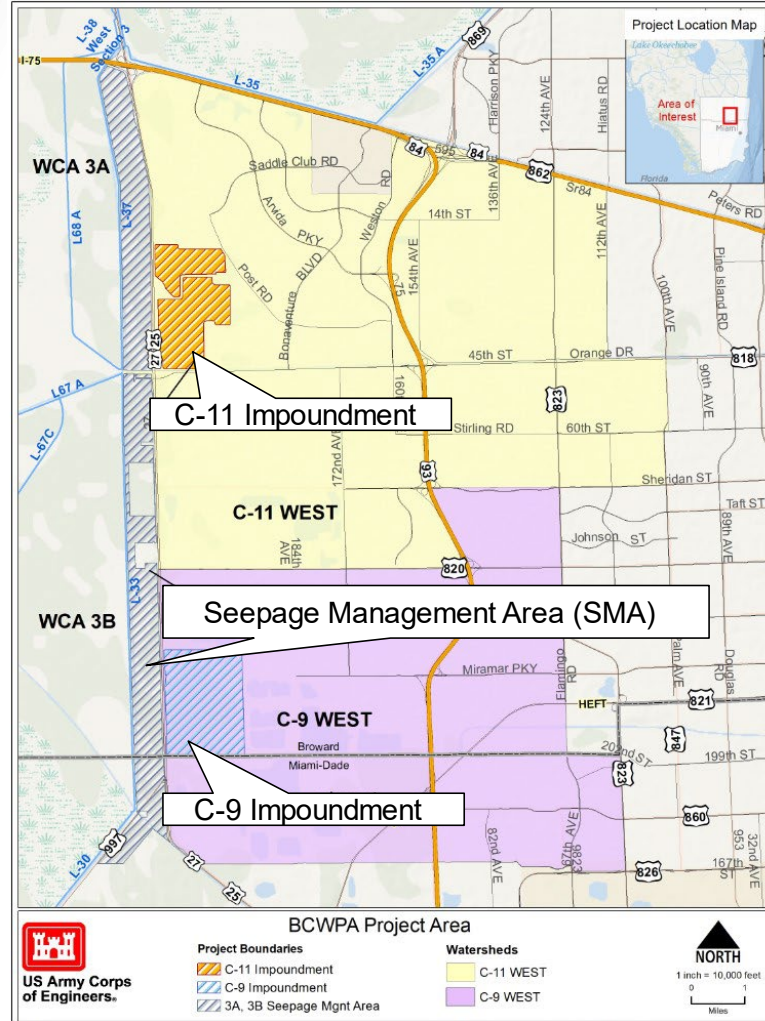
- CEPP Public Informational Meeting held August 25, 2023
  
- CEPP - South:
  - ▶ L-67A structures, *under construction*.
  - ▶ Pump Station S-356, final design ongoing, anticipated contract award FY24.
  - ▶ Gated Spillway S-355W, final design ongoing, anticipated contract award FY24.
  
- CEPP - EAA:
  - ▶ Seepage and Inflow/Outflow Canal, *under construction*.
  - ▶ Reservoir Foundation and Cut-off Wall, *under construction*.
  - ▶ Reservoir Embankment, design ongoing, anticipated contract award FY24.



Everglades Agricultural Area (EAA) Reservoir, Seepage Inflow/Outflow Canal, August 2023



# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM | DESIGN AND CONSTRUCTION BROWARD COUNTY WATER PRESERVE AREAS | C-11 IMPOUNDMENT



## Purpose:

- Reduce runoff from developed areas in western Broward County into Water Conservation Area 3 which flows to the Everglades National Park.
- C-11 Impoundment is key to full operation of CEPP South
- Reduce seepage of water out of the Everglades to developed areas in western Broward County.
- The project will improve fish and wildlife habitat including that of 5 federally-listed species.
- 563,000 acres in Water Conservation Area 3 and 200,000 acres in the greater Everglades will benefit from project implementation.

## Features:

- Final Design of C-11 Impoundment underway. Anticipated award of first increment of construction of C-11 feature in FY24.





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## SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM OPERATIONS

### *Today's Highlights:*

- Kissimmee River Restoration (KRR)
- Indian River Lagoon – South (IRL-S)
- Lake Okeechobee System Operating Manual (LOSOM)
- Central Everglades Planning Project (CEPP) Operational Plan



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# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM | OPERATIONS

## KISSIMMEE RIVER RESTORATION



Restored Kissimmee River



S-69 Weir

The Kissimmee River Restoration (KRR) restores critical floodplain habitat and timing of flows to Lake Okeechobee.

### Total Project Benefits:

- Conveyance of 130,000 acre-feet of natural floodplain storage to slow the flow of water into Lake Okeechobee and reduce the impacts of high-volume discharges into the St. Lucie and Caloosahatchee estuaries.

### Status:

- KRR Headwaters Revitalization: Increment 1 development ongoing.
- S-69 Weir repairs.
- Navigation signage.





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# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM | OPERATIONS

## INDIAN RIVER LAGOON - SOUTH



C-44 Reservoir

### C-44 Reservoir Status

- Operational monitoring and testing period, extended.
- ***In use*** - Operating up to 10-feet, target is a 15-foot holding pool.
- Current operations in accordance with Preliminary Project Operating Manual.
- Addressing seepage in outside canal bank on southwest corner.
- Overall conditions remain normal with no dam safety concerns.



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# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM | OPERATIONS

## LAKE OKEECHOBEE SYSTEM OPERATIONS MANUAL (LOSOM)



- Benefits-focused.
- System with holistic perspective.
- Will use real time knowledge of climate conditions, weather data, climate projections, and system needs to make educated decisions about how releases are made.
- Key seasonal assessment points to analyze the past, the present, and the anticipated/desired future.





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# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM | OPERATIONS

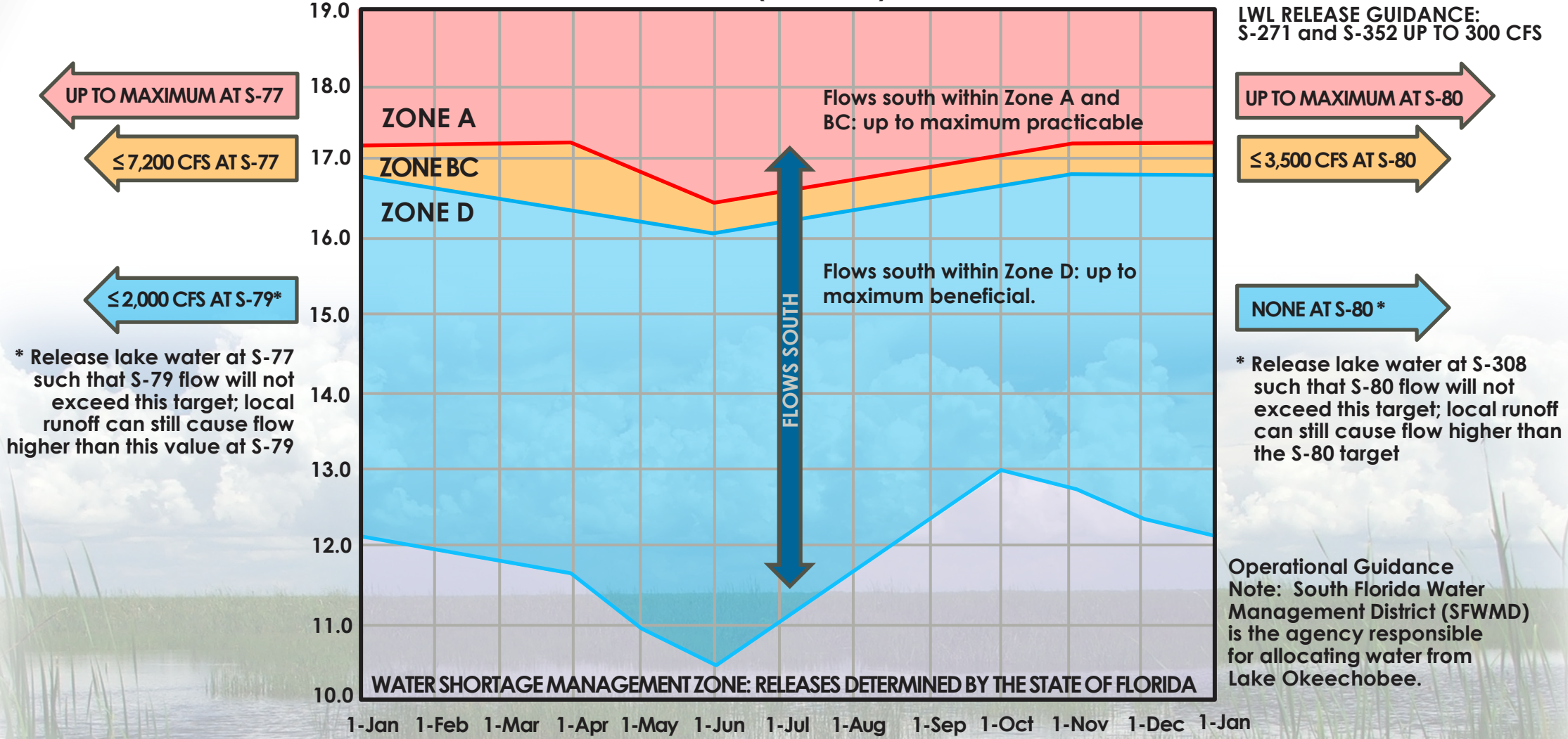
## LOSOM REGULATION SCHEDULE



TO THE ST. LUCIE ESTUARY (SLE) AND LAKE WORTH LAGOON (LWL)

TO THE CALOOSAATCHEE RIVER ESTUARY (CRE)

LAKE LEVELS (FEET, NGVD)



LWL RELEASE GUIDANCE:  
S-271 and S-352 UP TO 300 CFS

UP TO MAXIMUM AT S-80

≤ 3,500 CFS AT S-80

NONE AT S-80\*

\* Release lake water at S-308 such that S-80 flow will not exceed this target; local runoff can still cause flow higher than the S-80 target

Operational Guidance Note: South Florida Water Management District (SFWMD) is the agency responsible for allocating water from Lake Okeechobee.

\* Release lake water at S-77 such that S-79 flow will not exceed this target; local runoff can still cause flow higher than this value at S-79

UP TO MAXIMUM AT S-77

≤ 7,200 CFS AT S-77

≤ 2,000 CFS AT S-79\*

TO THE GREATER EVERGLADES



## LOSOM SCHEDULE OVERVIEW THROUGH THE RECORD OF DECISION (ROD)



### ACTIVITIES

- Draft NEPA documentation of the effects of the alternatives and how the preferred alternative was chosen
- Draft water control plan (WCP) documentation including regulation schedule and operational guidance
- Endangered Species Act (ESA) consultation initiated, and Biological Assessments (BA) transmitted

February – July 2022  
COMPLETE

- NEPA public, agency, and tribal review and comment on the Draft LOSOM Environmental Impact Statement (EIS) and Water Control Plan
- Corps Agency Technical Review (ATR) and Independent External Peer Review (IEPR)
- Draft Fish and Wildlife Service (FWS) Biological Opinion (BO)

July - September 2022  
COMPLETE

- Final EIS and System Operating Manual (SOM) completed to address review comments (January 2023)
- Final FWS Biological Opinion (COMPLETE)
- IEPR Completion, ATR Certification, South Atlantic Division (SAD) Review

September 2022 – March 2023

- Final National Marine Fisheries Service (NMFS) Biological Opinion (Schedule Extended – \*under review)
- NEPA public, agency, and tribal review of Final EIS and SOM (October 2023, \*Under review)
- Corps SAD review and approval of Record of Decision (ROD) (December 2023, \*Under review)

March 2023 – December 2023 \*

DOCUMENTATION PROCESS



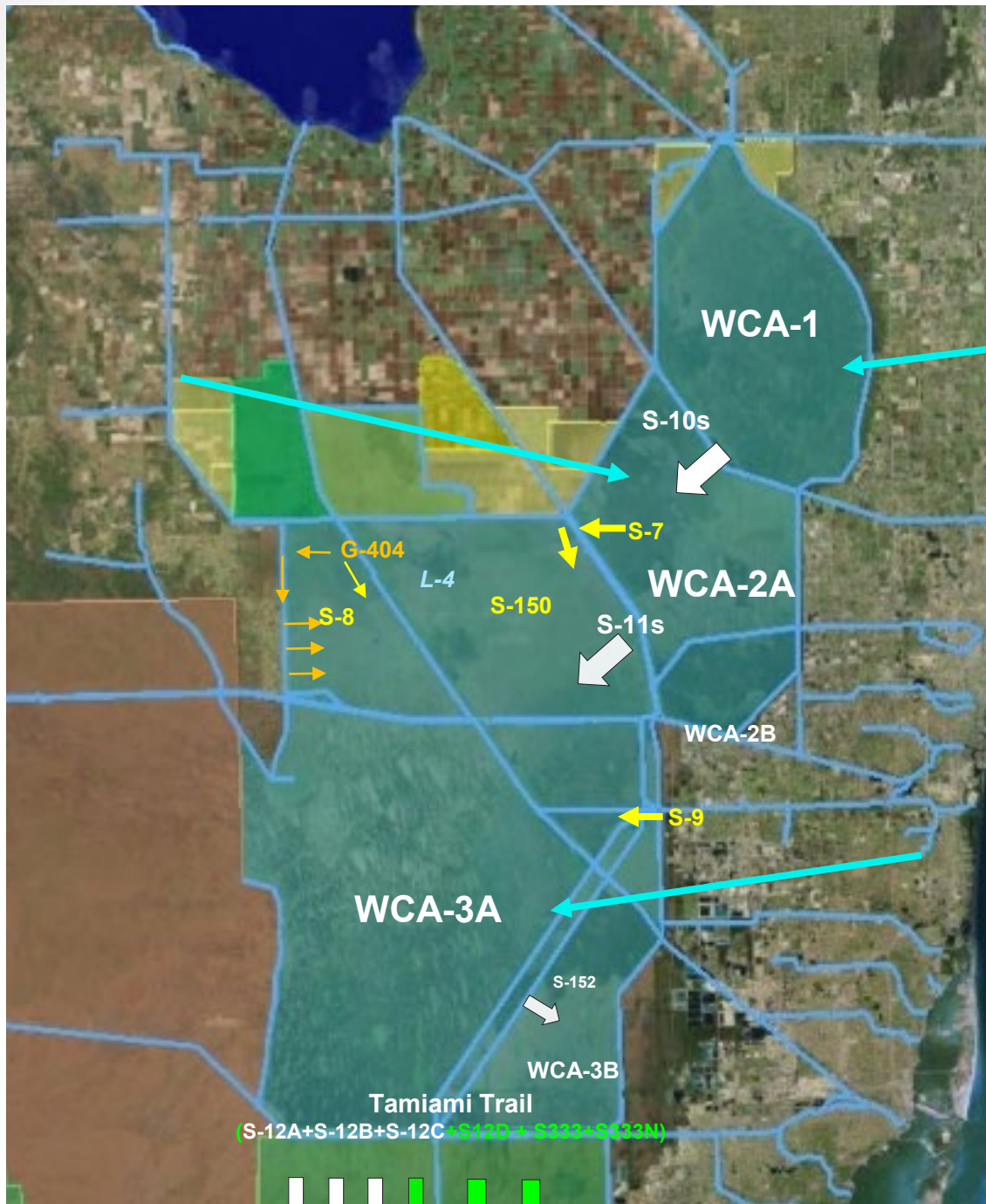


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# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM OPERATIONS COMBINED OPERATIONAL PLAN



S-12A+S-12B+S-12C+S-12D+S-12E+S-12F+S-12G+S-12H+S-12I+S-12J+S-12K+S-12L+S-12M+S-12N+S-12O+S-12P+S-12Q+S-12R+S-12S+S-12T+S-12U+S-12V+S-12W+S-12X+S-12Y+S-12Z+S-12AA+S-12AB+S-12AC+S-12AD+S-12AE+S-12AF+S-12AG+S-12AH+S-12AI+S-12AJ+S-12AK+S-12AL+S-12AM+S-12AN+S-12AO+S-12AP+S-12AQ+S-12AR+S-12AS+S-12AT+S-12AU+S-12AV+S-12AW+S-12AX+S-12AY+S-12AZ+S-12BA+S-12BB+S-12BC+S-12BD+S-12BE+S-12BF+S-12BG+S-12BH+S-12BI+S-12BJ+S-12BK+S-12BL+S-12BM+S-12BN+S-12BO+S-12BP+S-12BQ+S-12BR+S-12BS+S-12BT+S-12BU+S-12BV+S-12BW+S-12BX+S-12BY+S-12BZ+S-12CA+S-12CB+S-12CC+S-12CD+S-12CE+S-12CF+S-12CG+S-12CH+S-12CI+S-12CJ+S-12CK+S-12CL+S-12CM+S-12CN+S-12CO+S-12CP+S-12CQ+S-12CR+S-12CS+S-12CT+S-12CU+S-12CV+S-12CW+S-12CX+S-12CY+S-12CZ+S-12DA+S-12DB+S-12DC+S-12DD+S-12DE+S-12DF+S-12DG+S-12DH+S-12DI+S-12DJ+S-12DK+S-12DL+S-12DM+S-12DN+S-12DO+S-12DP+S-12DQ+S-12DR+S-12DS+S-12DT+S-12DU+S-12DV+S-12DW+S-12DX+S-12DY+S-12DZ+S-12EA+S-12EB+S-12EC+S-12ED+S-12EE+S-12EF+S-12EG+S-12EH+S-12EI+S-12EJ+S-12EK+S-12EL+S-12EM+S-12EN+S-12EO+S-12EP+S-12EQ+S-12ER+S-12ES+S-12ET+S-12EU+S-12EV+S-12EW+S-12EX+S-12EY+S-12EZ+S-12FA+S-12FB+S-12FC+S-12FD+S-12FE+S-12FF+S-12FG+S-12FH+S-12FI+S-12FJ+S-12FK+S-12FL+S-12FM+S-12FN+S-12FO+S-12FP+S-12FQ+S-12FR+S-12FS+S-12FT+S-12FU+S-12FV+S-12FW+S-12FX+S-12FY+S-12FZ+S-12GA+S-12GB+S-12GC+S-12GD+S-12GE+S-12GF+S-12GG+S-12GH+S-12GI+S-12GJ+S-12GK+S-12GL+S-12GM+S-12GN+S-12GO+S-12GP+S-12GQ+S-12GR+S-12GS+S-12GT+S-12GU+S-12GV+S-12GW+S-12GX+S-12GY+S-12GZ+S-12HA+S-12HB+S-12HC+S-12HD+S-12HE+S-12HF+S-12HG+S-12HH+S-12HI+S-12HJ+S-12HK+S-12HL+S-12HM+S-12HN+S-12HO+S-12HP+S-12HQ+S-12HR+S-12HS+S-12HT+S-12HU+S-12HV+S-12HW+S-12HX+S-12HY+S-12HZ+S-12IA+S-12IB+S-12IC+S-12ID+S-12IE+S-12IF+S-12IG+S-12IH+S-12II+S-12IJ+S-12IK+S-12IL+S-12IM+S-12IN+S-12IO+S-12IP+S-12IQ+S-12IR+S-12IS+S-12IT+S-12IU+S-12IV+S-12IW+S-12IX+S-12IY+S-12IZ+S-12JA+S-12JB+S-12JC+S-12JD+S-12JE+S-12JF+S-12JG+S-12JH+S-12JI+S-12JJ+S-12JK+S-12JL+S-12JM+S-12JN+S-12JO+S-12JP+S-12JQ+S-12JR+S-12JS+S-12JT+S-12JU+S-12JV+S-12JW+S-12JX+S-12JY+S-12JZ+S-12KA+S-12KB+S-12KC+S-12KD+S-12KE+S-12KF+S-12KG+S-12KH+S-12KI+S-12KJ+S-12KK+S-12KL+S-12KM+S-12KN+S-12KO+S-12KP+S-12KQ+S-12KR+S-12KS+S-12KT+S-12KU+S-12KV+S-12KW+S-12KX+S-12KY+S-12KZ+S-12LA+S-12LB+S-12LC+S-12LD+S-12LE+S-12LF+S-12LG+S-12LH+S-12LI+S-12LJ+S-12LK+S-12LL+S-12LM+S-12LN+S-12LO+S-12LP+S-12LQ+S-12LR+S-12LS+S-12LT+S-12LU+S-12LV+S-12LW+S-12LX+S-12LY+S-12LZ+S-12MA+S-12MB+S-12MC+S-12MD+S-12ME+S-12MF+S-12MG+S-12MH+S-12MI+S-12MJ+S-12MK+S-12ML+S-12MN+S-12MO+S-12MP+S-12MQ+S-12MR+S-12MS+S-12MT+S-12MU+S-12MV+S-12MW+S-12MX+S-12MY+S-12MZ+S-12NA+S-12NB+S-12NC+S-12ND+S-12NE+S-12NF+S-12NG+S-12NH+S-12NI+S-12NJ+S-12NK+S-12NL+S-12NM+S-12NN+S-12NO+S-12NP+S-12NQ+S-12NR+S-12NS+S-12NT+S-12NU+S-12NV+S-12NW+S-12NX+S-12NY+S-12NZ+S-12OA+S-12OB+S-12OC+S-12OD+S-12OE+S-12OF+S-12OG+S-12OH+S-12OI+S-12OJ+S-12OK+S-12OL+S-12OM+S-12ON+S-12OO+S-12OP+S-12OQ+S-12OR+S-12OS+S-12OT+S-12OU+S-12OV+S-12OW+S-12OX+S-12OY+S-12OZ+S-12PA+S-12PB+S-12PC+S-12PD+S-12PE+S-12PF+S-12PG+S-12PH+S-12PI+S-12PJ+S-12PK+S-12PL+S-12PM+S-12PN+S-12PO+S-12PP+S-12PQ+S-12PR+S-12PS+S-12PT+S-12PU+S-12PV+S-12PW+S-12PX+S-12PY+S-12PZ+S-12QA+S-12QB+S-12QC+S-12QD+S-12QE+S-12QF+S-12QG+S-12QH+S-12QI+S-12QJ+S-12QK+S-12QL+S-12QM+S-12QN+S-12QO+S-12QP+S-12QQ+S-12QR+S-12QS+S-12QT+S-12QU+S-12QV+S-12QW+S-12QX+S-12QY+S-12QZ+S-12RA+S-12RB+S-12RC+S-12RD+S-12RE+S-12RF+S-12RG+S-12RH+S-12RI+S-12RJ+S-12RK+S-12RL+S-12RM+S-12RN+S-12RO+S-12RP+S-12RQ+S-12RR+S-12RS+S-12RT+S-12RU+S-12RV+S-12RW+S-12RX+S-12RY+S-12RZ+S-12SA+S-12SB+S-12SC+S-12SD+S-12SE+S-12SF+S-12SG+S-12SH+S-12SI+S-12SJ+S-12SK+S-12SL+S-12SM+S-12SN+S-12SO+S-12SP+S-12SQ+S-12SR+S-12SS+S-12ST+S-12SU+S-12SV+S-12SW+S-12SX+S-12SY+S-12SZ+S-12TA+S-12TB+S-12TC+S-12TD+S-12TE+S-12TF+S-12TG+S-12TH+S-12TI+S-12TJ+S-12TK+S-12TL+S-12TM+S-12TN+S-12TO+S-12TP+S-12TQ+S-12TR+S-12TS+S-12TT+S-12TU+S-12TV+S-12TW+S-12TX+S-12TY+S-12TZ+S-12UA+S-12UB+S-12UC+S-12UD+S-12UE+S-12UF+S-12UG+S-12UH+S-12UI+S-12UJ+S-12UK+S-12UL+S-12UM+S-12UN+S-12UO+S-12UP+S-12UQ+S-12UR+S-12US+S-12UT+S-12UU+S-12UV+S-12UW+S-12UX+S-12UY+S-12UZ+S-12VA+S-12VB+S-12VC+S-12VD+S-12VE+S-12VF+S-12VG+S-12VH+S-12VI+S-12VJ+S-12VK+S-12VL+S-12VM+S-12VN+S-12VO+S-12VP+S-12VQ+S-12VR+S-12VS+S-12VT+S-12VU+S-12VV+S-12VW+S-12VX+S-12VY+S-12VZ+S-12WA+S-12WB+S-12WC+S-12WD+S-12WE+S-12WF+S-12WG+S-12WH+S-12WI+S-12WJ+S-12WK+S-12WL+S-12WM+S-12WN+S-12WO+S-12WP+S-12WQ+S-12WR+S-12WS+S-12WT+S-12WU+S-12WV+S-12WW+S-12WX+S-12WY+S-12WZ+S-12XA+S-12XB+S-12XC+S-12XD+S-12XE+S-12XF+S-12XG+S-12XH+S-12XI+S-12XJ+S-12XK+S-12XL+S-12XM+S-12XN+S-12XO+S-12XP+S-12XQ+S-12XR+S-12XS+S-12XT+S-12XU+S-12XV+S-12XW+S-12XX+S-12XY+S-12XZ+S-12YA+S-12YB+S-12YC+S-12YD+S-12YE+S-12YF+S-12YG+S-12YH+S-12YI+S-12YJ+S-12YK+S-12YL+S-12YM+S-12YN+S-12YO+S-12YP+S-12YQ+S-12YR+S-12YS+S-12YT+S-12YU+S-12YV+S-12YW+S-12YX+S-12YY+S-12YZ+S-12ZA+S-12ZB+S-12ZC+S-12ZD+S-12ZE+S-12ZF+S-12ZG+S-12ZH+S-12ZI+S-12ZJ+S-12ZK+S-12ZL+S-12ZM+S-12ZN+S-12ZO+S-12ZP+S-12ZQ+S-12ZR+S-12ZS+S-12ZT+S-12ZU+S-12ZV+S-12ZW+S-12ZX+S-12ZY+S-12ZZ



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# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM OPERATIONS COMBINED OPERATIONAL PLAN



**LEGEND**

Minimum Water Delivery
IOP
ERTP
Increment 1
2016 Emergency Deviation
Increment 1.1/1.2
2017 Temporary Deviations
Increment 2
COP

**WATER DELIVERIES (AC-FT) ACROSS TAMIAMI TRAIL (S-12s + S-333 + S-333N + S-356 - S-334)**

	Jan	Feb	Mar	Apr	May	Jun	Jul*	Aug	Sep	Oct	Nov	Dec	Total
<b>Min. Del. Thru S-12s (PL 91-282 June 1970)</b>	22,000	9,000	4,000	1,700	1,700	5,000	7,400	12,200	39,000	67,000	59,000	32,000	260,000
<b>2012</b>	32,700	13,300	5,900	700	25,600	44,900	71,500	87,000	115,000	177,900	123,900	105,600	804,000
<b>2013</b>	40,200	14,600	3,900	700	47,900	63,800	112,600	149,300	133,800	122,700	88,000	40,800	818,300
<b>2014</b>	6,400	43,000	55,200	600	100	12,300	61,700	75,500	101,600	100,500	91,200	23,700	571,800
<b>2015</b>	13,100	15,100	8,900	0	0	0	0	0	14,500	122,500	56,700	108,900	339,700
<b>2016</b>	108,500	180,800	203,100	127,400	61,600	44,300	66,900	79,400	110,700	120,100	76,100	8,000	1,186,900
<b>2017</b>	2,900	5,300	1,400	400	200	109,700	191,400	183,200	240,700	323,400	253,800	196,800	1,509,200
<b>2018</b>	97,000	37,400	3,100	900	31,100	105,700	149,300	157,500	163,100	127,100	1,400	900	874,500
<b>2019</b>	1,000	21,100	27,900	16,300	24,700	53,600	104,000	127,200	147,600	109,400	25,800	100	658,700
<b>2020</b>	160	250	360	410	9,700	113,600	181,700	198,900	159,600	181,200	360,800	366,300	1,572,980
<b>2021</b>	233,860	140,070	120,630	70,970	23,000	31,200	70,600	100,700	116,600	186,400	150,032	145,993	1,390,055
<b>2022</b>	119,286	85,296	68,924	26,614	8,453	91,964	166,719	135,833	105,547	208,375	173,758	146,350	1,337,118
<b>2023</b>	115,477	79,869	54,672	51,472	63,929	98,634	145,097	67,338					676,487

Note: All data is provisional.

\*The latest monthly value may include an Incomplete Monthly Period of Record





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# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM | OPERATIONS



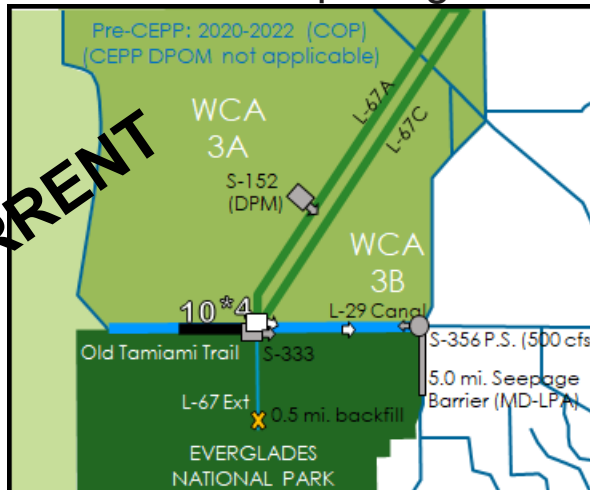
## CENTRAL EVERGLADES PLANNING PROJECT OPERATIONAL PLAN (INCREMENTAL)

### Project Purpose:

- The Central Everglades Planning Project (CEPP) Operations Plan aims to redistribute Water Conservation Area (WCA) 3A inflows to enhance flows into Everglades National Park (ENP).
- Incremental changes to the Combined Operations Plan (COP) to include Central Everglades Restoration Projects (CERP) and non-CERP implementation.

### Status:

- Public scoping meetings held in April 2023. Scoping period concluded in mid May 2023.
- Three operational increments scoped to align with timing of construction completing.

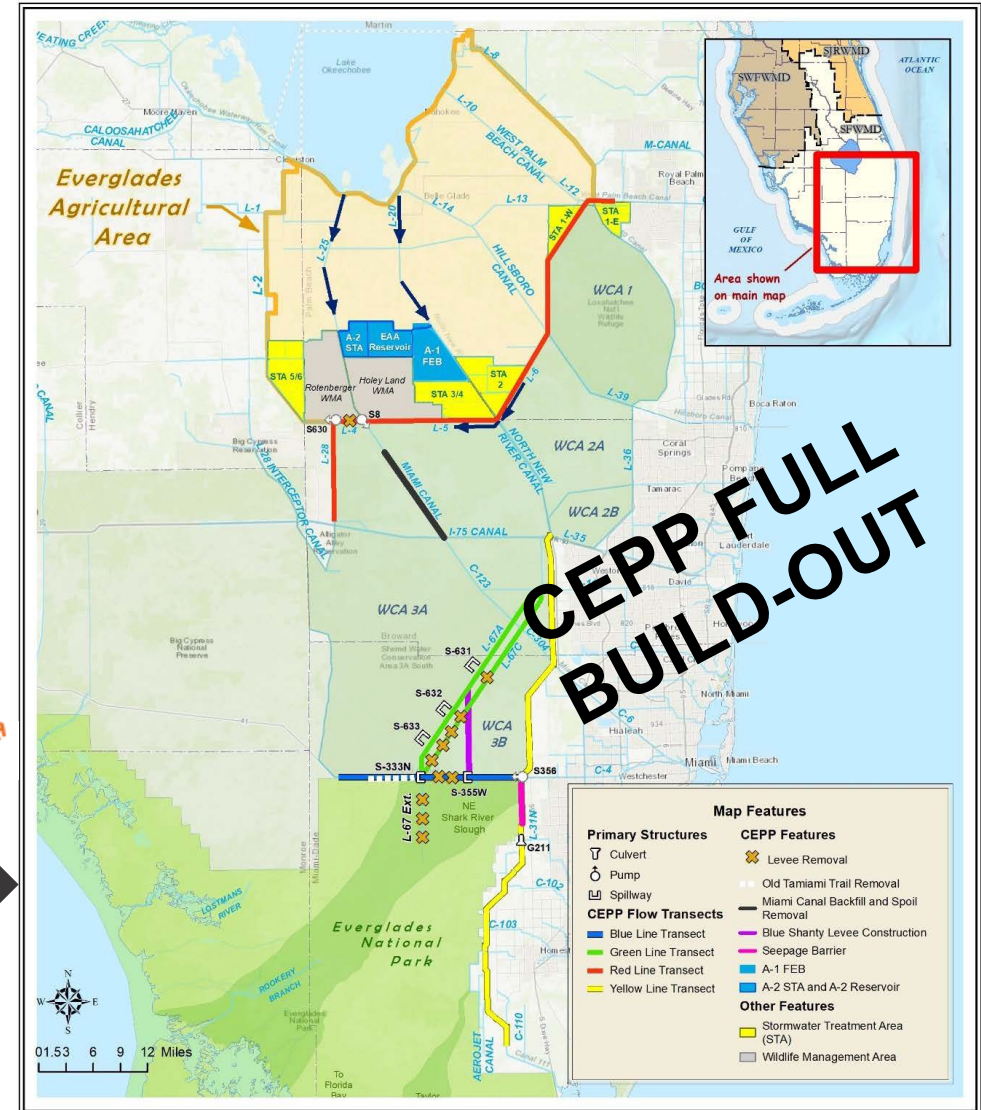


**CURRENT**



**CONSTRUCTION & INTERIM OPERATIONS**

Develop operating plans for CEPP infrastructure to incrementally progress towards CEPP benefits



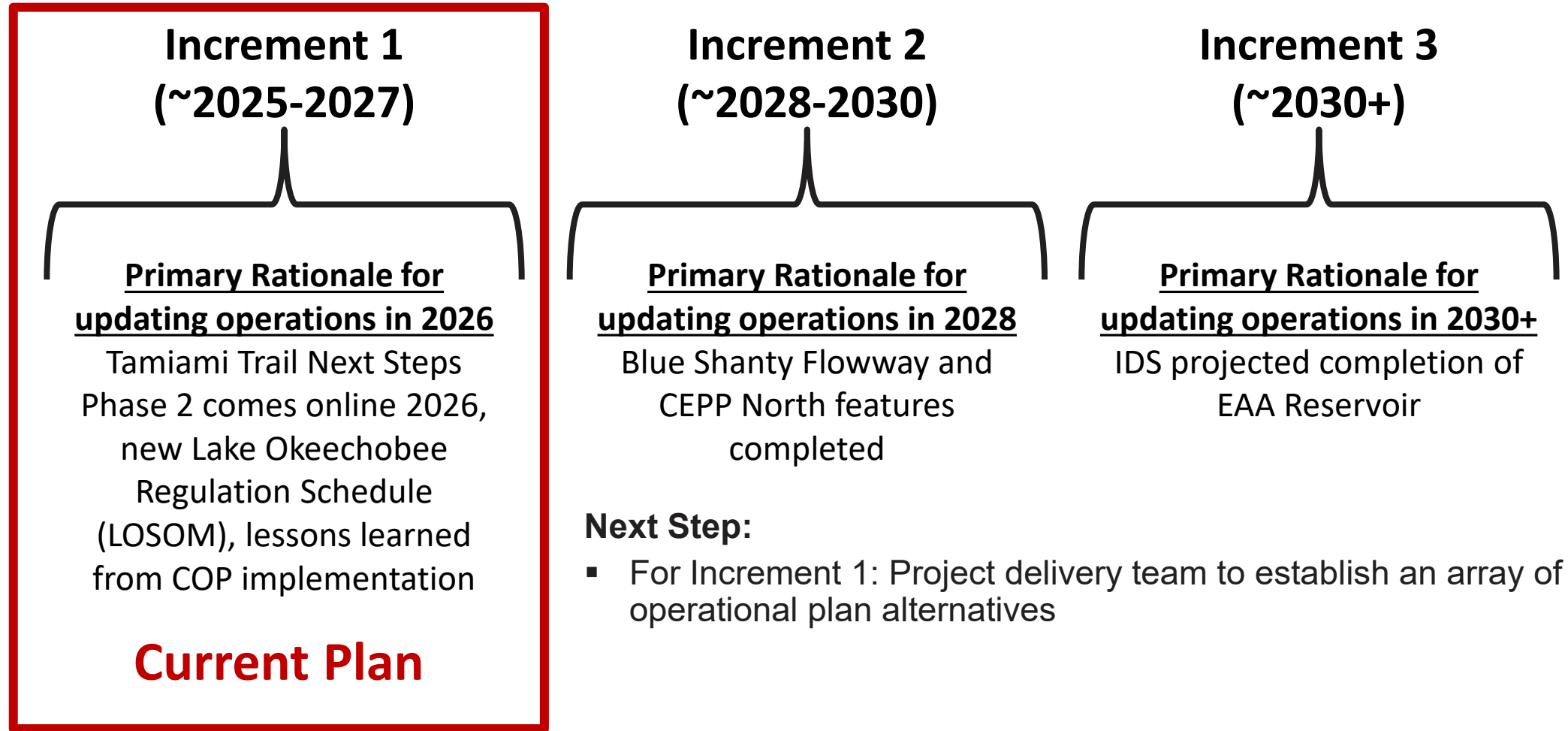
**CEPP FULL BUILD-OUT**



# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM | OPERATIONS

## CENTRAL EVERGLADES PLANNING PROJECT

### OPERATIONAL PLAN (INCREMENTAL)







# We're Hiring!



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