

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

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

**SOUTH FLORIDA RESTORATION TASK FORCE**

**Presented by: Eva B. Vélez, PE, Chief, Ecosystems Branch**  
**01 June 2023**



**U.S. ARMY**



**US Army Corps  
of Engineers**



# 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)

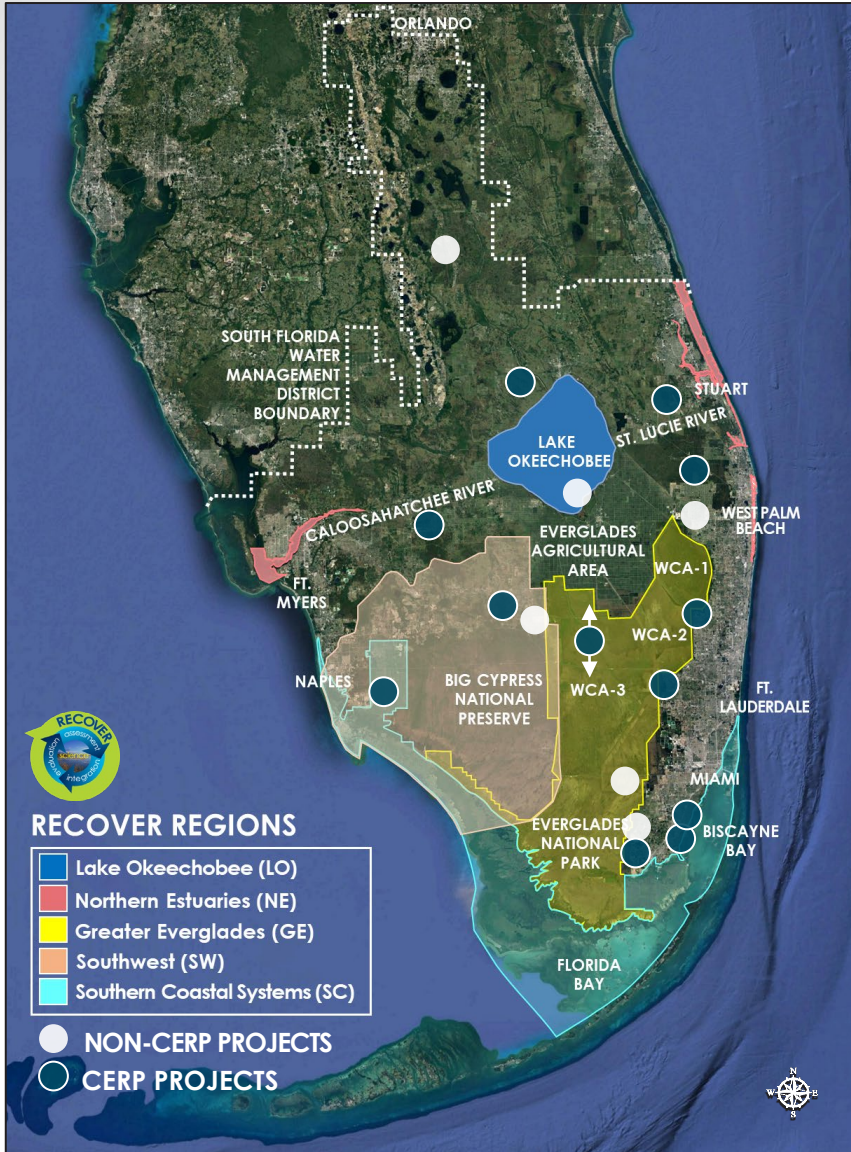


U.S. ARMY

# SOUTH FLORIDA ECOSYSTEM RESTORATION AND C&SF RESILIENCE PROGRAMS



## FY23 BUDGET OVERVIEW



	INVESTIGATIONS	CONSTRUCTION	OPERATIONS & MAINTENANCE	AUTHORIZING BILL/PRESIDENT'S BUDGET
South Florida Ecosystem Restoration (Annual)	\$0	\$453.84M	\$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





U.S. ARMY



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 water project in the world. It will restore the health of the South Florida ecosystem and improve the health of the Everglades. The Integrated Delivery Schedule (IDS) is a tool to help manage the project. It shows the schedule and progress of the project. The IDS is a living document that will be updated as the project progresses. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project.

Project	Start	End	Status
Project A	2022	2023	On Track
Project B	2023	2024	Delayed
Project C	2024	2025	On Track



### June 2023

## Initiate 2023 IDS Update

### Oct 2023 (tentative)

## Release of Final 2023 IDS Update at Task Force Workshop

Legend	Color	Description
Blue	Blue	Non-Federal
Green	Green	Federal
Yellow	Yellow	Design
Orange	Orange	Construction
Red	Red	Operational

Project	Start	End	Status
Project 1	2021	2022	Completed
Project 2	2022	2023	In Progress
Project 3	2023	2024	Planned

Project	Start	End	Status
Project 4	2024	2025	Planned
Project 5	2025	2026	Planned
Project 6	2026	2027	Planned

Project	Start	End	Status
Project 7	2027	2028	Planned
Project 8	2028	2029	Planned
Project 9	2029	2030	Planned

Project	Start	End	Status
Project 10	2030	2031	Planned
Project 11	2031	2032	Planned
Project 12	2032	2033	Planned

Project	Start	End	Status
Project 13	2033	2034	Planned
Project 14	2034	2035	Planned
Project 15	2035	2036	Planned

Project	Start	End	Status
Project 16	2036	2037	Planned
Project 17	2037	2038	Planned
Project 18	2038	2039	Planned

Project	Start	End	Status
Project 19	2039	2040	Planned
Project 20	2040	2041	Planned
Project 21	2041	2042	Planned

PAGE 1

### SOUTH FLORIDA ECOSYSTEM RESTORATION AND GETTING THE WATER RIGHT - 2022 WORKING DRAFT

The Comprehensive Everglades Restoration Plan (CERP) is the largest water project in the world. It will restore the health of the South Florida ecosystem and improve the health of the Everglades. The Integrated Delivery Schedule (IDS) is a tool to help manage the project. It shows the schedule and progress of the project. The IDS is a living document that will be updated as the project progresses. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project.

**EXPANDING THE RECOVER FOOTPRINT**  
The Comprehensive Everglades Restoration Plan (CERP) is the largest water project in the world. It will restore the health of the South Florida ecosystem and improve the health of the Everglades. The Integrated Delivery Schedule (IDS) is a tool to help manage the project. It shows the schedule and progress of the project. The IDS is a living document that will be updated as the project progresses. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project.

**SOON VOLUMES BY REGION**  
The Comprehensive Everglades Restoration Plan (CERP) is the largest water project in the world. It will restore the health of the South Florida ecosystem and improve the health of the Everglades. The Integrated Delivery Schedule (IDS) is a tool to help manage the project. It shows the schedule and progress of the project. The IDS is a living document that will be updated as the project progresses. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project.

**CONSTRUCTION RELEVANT SCHEDULE FOR SOON VOLUME 1**  
The Comprehensive Everglades Restoration Plan (CERP) is the largest water project in the world. It will restore the health of the South Florida ecosystem and improve the health of the Everglades. The Integrated Delivery Schedule (IDS) is a tool to help manage the project. It shows the schedule and progress of the project. The IDS is a living document that will be updated as the project progresses. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project.

**CONSTRUCTION RELEVANT SCHEDULE FOR SOON VOLUME 2**  
The Comprehensive Everglades Restoration Plan (CERP) is the largest water project in the world. It will restore the health of the South Florida ecosystem and improve the health of the Everglades. The Integrated Delivery Schedule (IDS) is a tool to help manage the project. It shows the schedule and progress of the project. The IDS is a living document that will be updated as the project progresses. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project.

**CONSTRUCTION RELEVANT SCHEDULE FOR SOON VOLUME 3**  
The Comprehensive Everglades Restoration Plan (CERP) is the largest water project in the world. It will restore the health of the South Florida ecosystem and improve the health of the Everglades. The Integrated Delivery Schedule (IDS) is a tool to help manage the project. It shows the schedule and progress of the project. The IDS is a living document that will be updated as the project progresses. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project. The IDS is a key tool for the project. It helps the project team to understand the project and to manage the project.



PAGE 2

## SAVE THE DATES

### August 4, 2023

## IDS 101 and Stakeholder Listening Session

### August 18, 2023

## CERP 68 Components Overview and Listening Session

### September 6, 2023

## Release of the 2023 Draft IDS Update



U.S. ARMY



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

# PLANNING

### *Today's Highlights:*

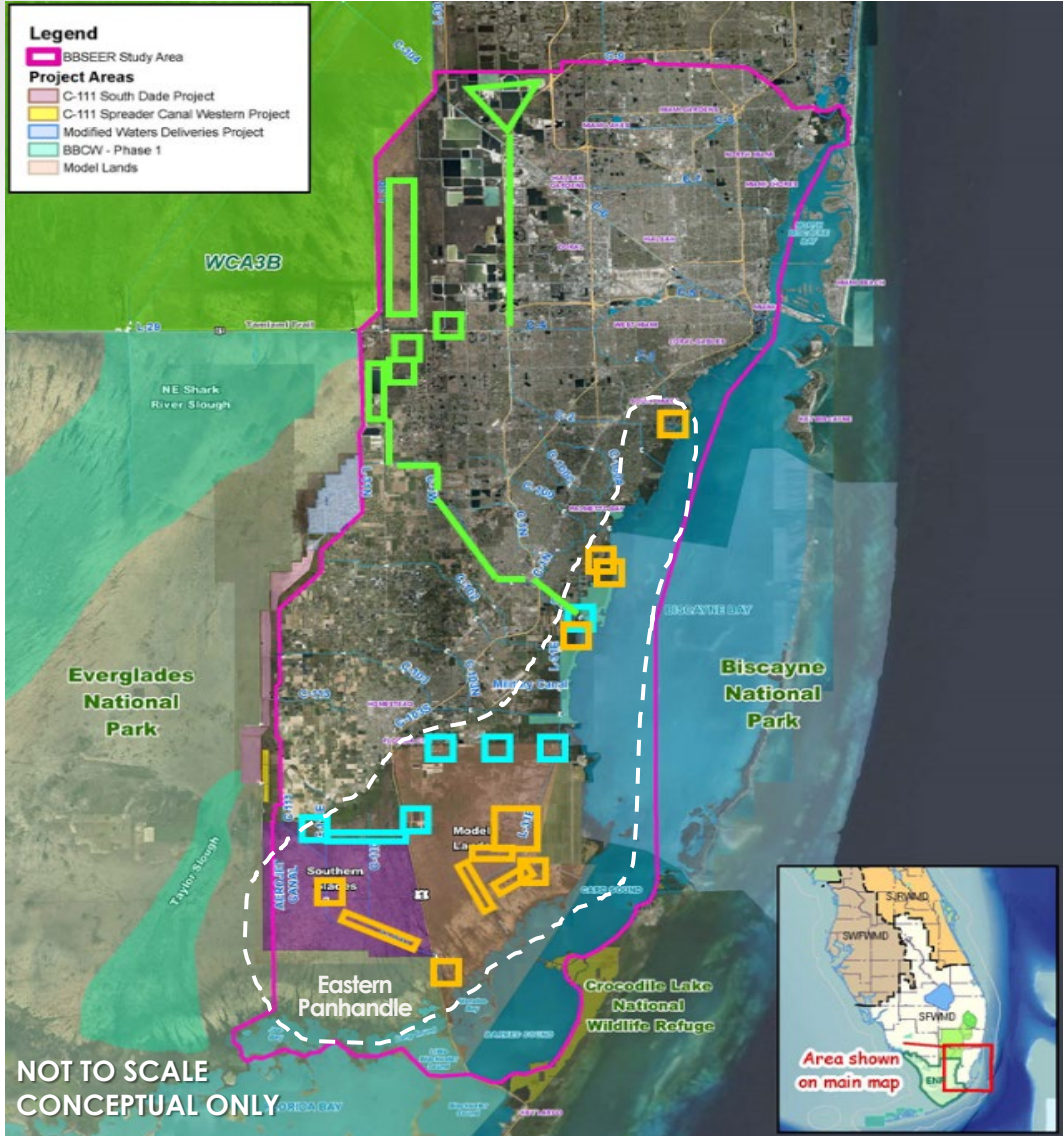
- Biscayne Bay and Southeastern Everglades Ecosystem Restoration (BBSEER)
- Lake Okeechobee Watershed Restoration Project (LOWRP)
- Western Everglades Restoration Project (WERP)
- C&SF Flood Resiliency (Section 216) Study





U.S. ARMY

# 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.
- Evaluation and Synthesis of Round 2 Modeling Results.
- NEXT: Development of Alternatives for Round 3.

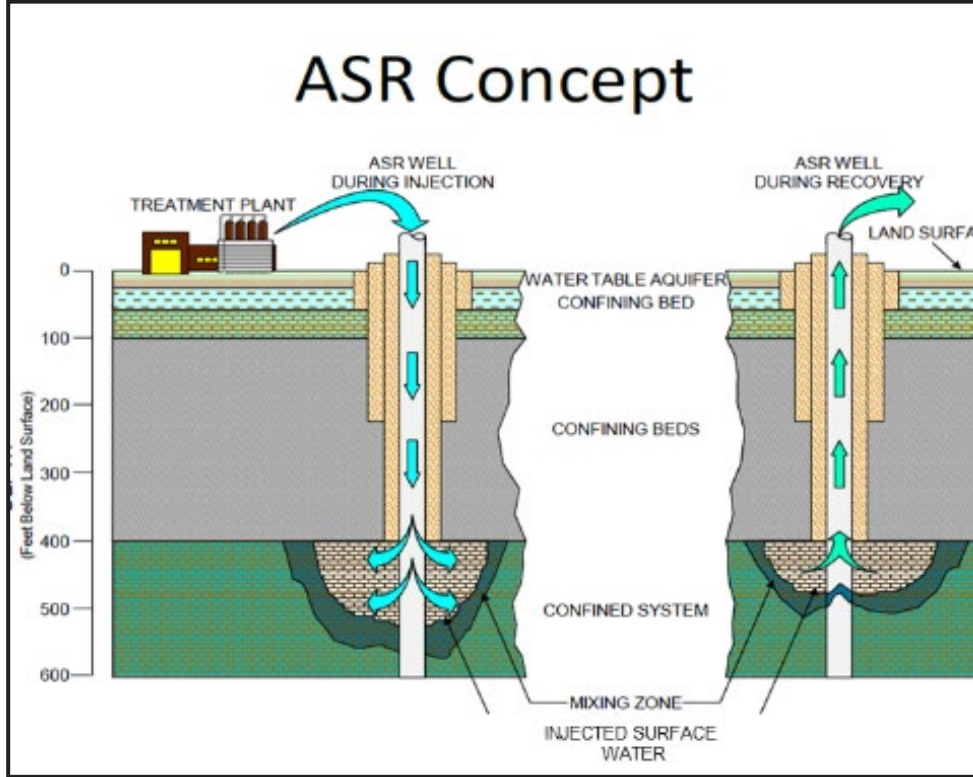




# LAKE OKEECHOBEE WATERSHED RESTORATION PROJECT



U.S. ARMY



## 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:

- Preparation of Waiver Package for updated Recommended Plan with separable elements
- First Report: LOWRP Wetlands Restoration Report – Target WRDA 2024
- Second Report: LOWRP ASR – Pending additional science







U.S. ARMY

# 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:

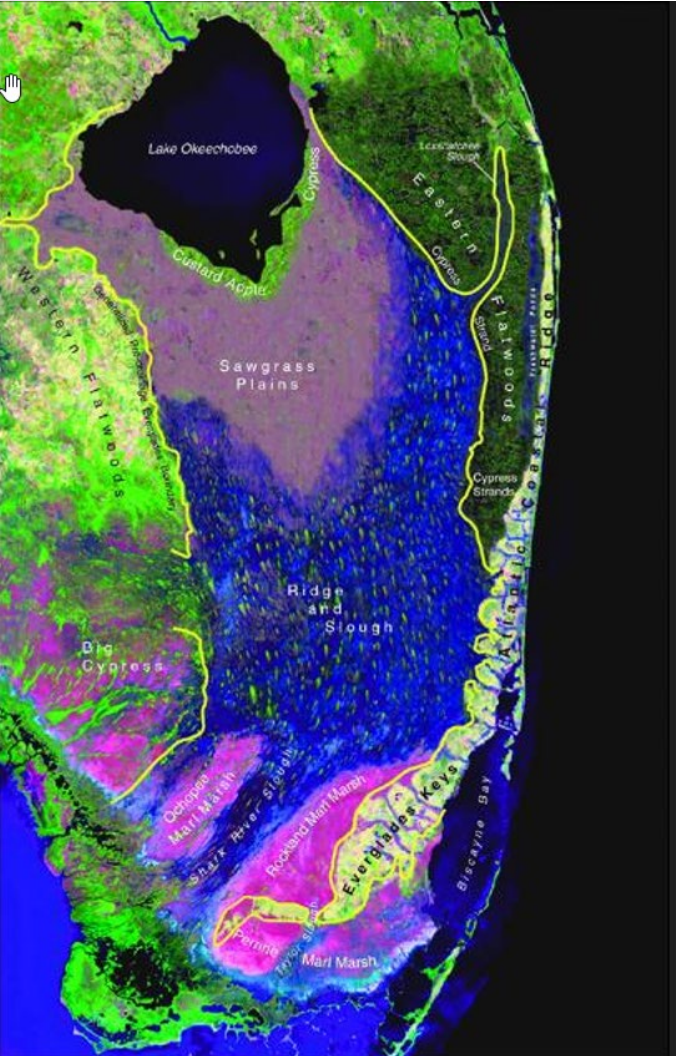
- Waiver package under review to revise Tentatively Selected Plan (TSP) and update project schedule.
- Wingate Mill Stormwater Treatment Area (STA) feature removed from TSP and replaced with flow way - Alternative HNF, additional modeling under review by PDT.
- Engineering, Policy and Legal review of North Feeder STA feature.
- Ongoing engagement with stakeholders and partners.





U.S. ARMY

# WESTERN EVERGLADES RESTORATION PROJECT (WERP)



## Pre-Drainage Western Everglades:

- A rain driven system of several habitats
- A historic place of refuge



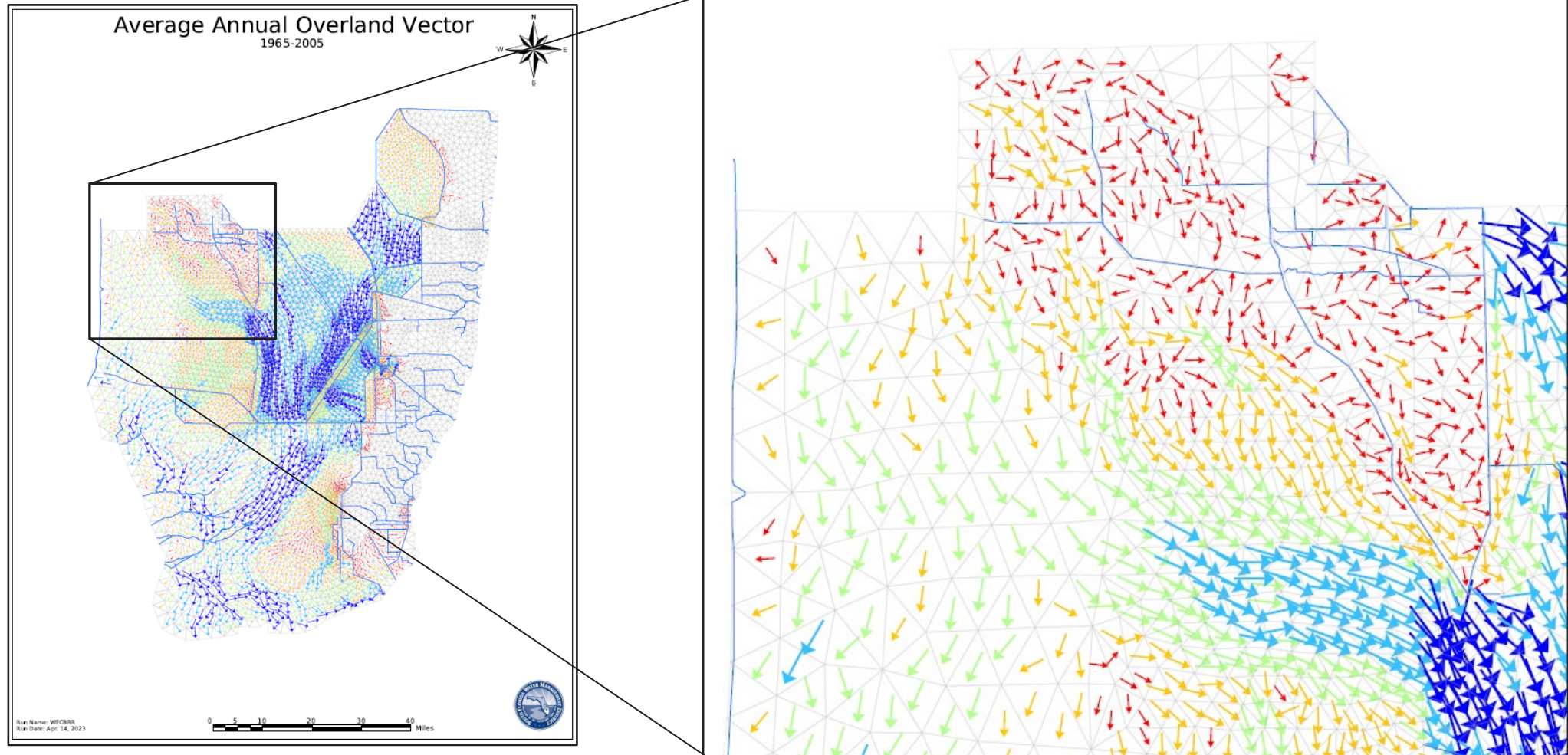


U.S. ARMY

# WESTERN EVERGLADES RESTORATION PROJECT (WERP)



## WERP MODEL OF EXISTING FLOWS



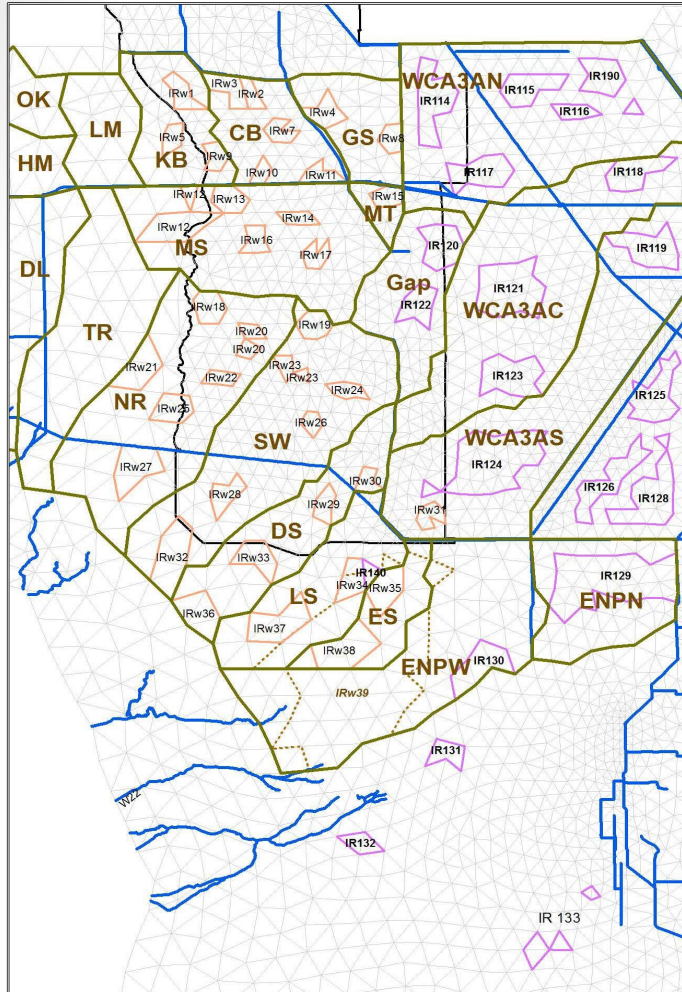
RSM Overland Flow Vector Map of Existing Conditions



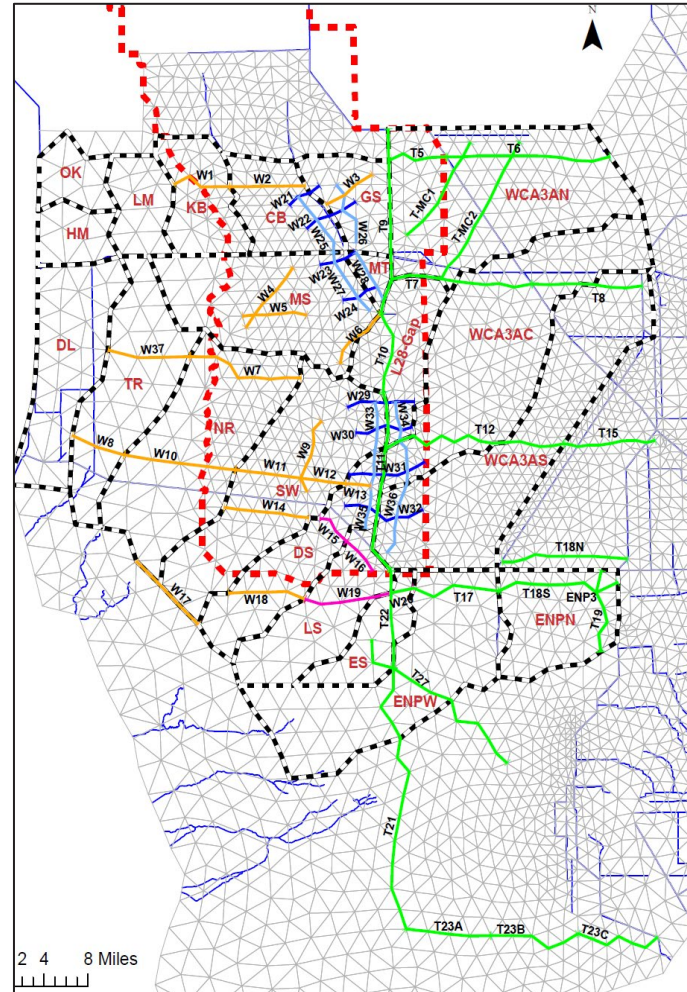


U.S. ARMY

# WESTERN EVERGLADES RESTORATION PROJECT (WERP)



RSM Indicator Regions



RSM Transects

## WERP – WHERE DO WE MEASURE BENEFITS?

- Indicator regions
- Transects
- Zones








U.S. ARMY



# WESTERN EVERGLADES RESTORATION PROJECT (WERP)

## WERP – HOW DO WE MEASURE BENEFITS?

### Project Performance Measures (PMs) – Habitat Units (HUs)

	AREA APPLIED	PERFORMANCE MEASURE	DESCRIPTION
 PM: ECOLOGIC CONNECTIVITY	Western Everglades, WCA 3A and ENP	Ecologic Connectivity	<b>Connectivity Across Landscape</b> - Measures improvements in connecting historic hydrologic linkages, removing physical barriers, expanding habitat to support fish and wildlife, and improvements in water quality through enhanced sheetflow (uptake of marsh) within project area.
		Inundation Patterns	<b>Above Ground Water Levels</b> - Measure of the duration of inundation over the period of record within project area.
		Sheet flow	<b>Sheet flow</b> - Measure of the <b>timing</b> and <b>distribution</b> of sheet flow across the landscape within project area.
 PM: SEASONAL TIMING/UNIFORMITY OF SHEETFLOW	Western Everglades Only	Fire Risk	<b>Below Ground Water Levels</b> - Measure of cumulative drought intensity below a given threshold (foot days below -0.5 feet and -1.5 feet to represent moderate and severe fire risk) within western Everglades.
		Hydrologic Regimes of Major Plant Communities	<b>Above &amp; Below Ground Water Levels</b> - Measure to evaluate the hydrologic suitability for vegetation communities within western Everglades. Utilizes existing vegetation to determine upper and lower bounds and targets.
 PM: CONDITIONS FOR VEGETATION	WCA 3A and ENP Only	Slough Vegetation Suitability	<b>Above &amp; Below Ground Water Levels</b> - Measure to evaluate the hydrologic suitability for vegetation communities within WCA 3A and ENP. Utilizes existing vegetation to determine upper and lower bounds and targets.
		Hydrologic Surrogate for Soil Oxidation	<b>Below Ground Water Levels</b> - Measure of cumulative drought intensity below ground to reduce exposure to peat within WCA 3A and ENP.
 PM: FIRE RISK	WCA 3A Only	Downstream Benefits of Reduced Phosphorus Loading	<b>Total Phosphorous Concentrations (TP)</b> - Measures spatial extent of water column TP concentrations in marsh areas downstream in Miccosukee Reservation. Halt expansion of nutrient enriched areas.
 PM: PHOSPHORUS DYNAMICS			



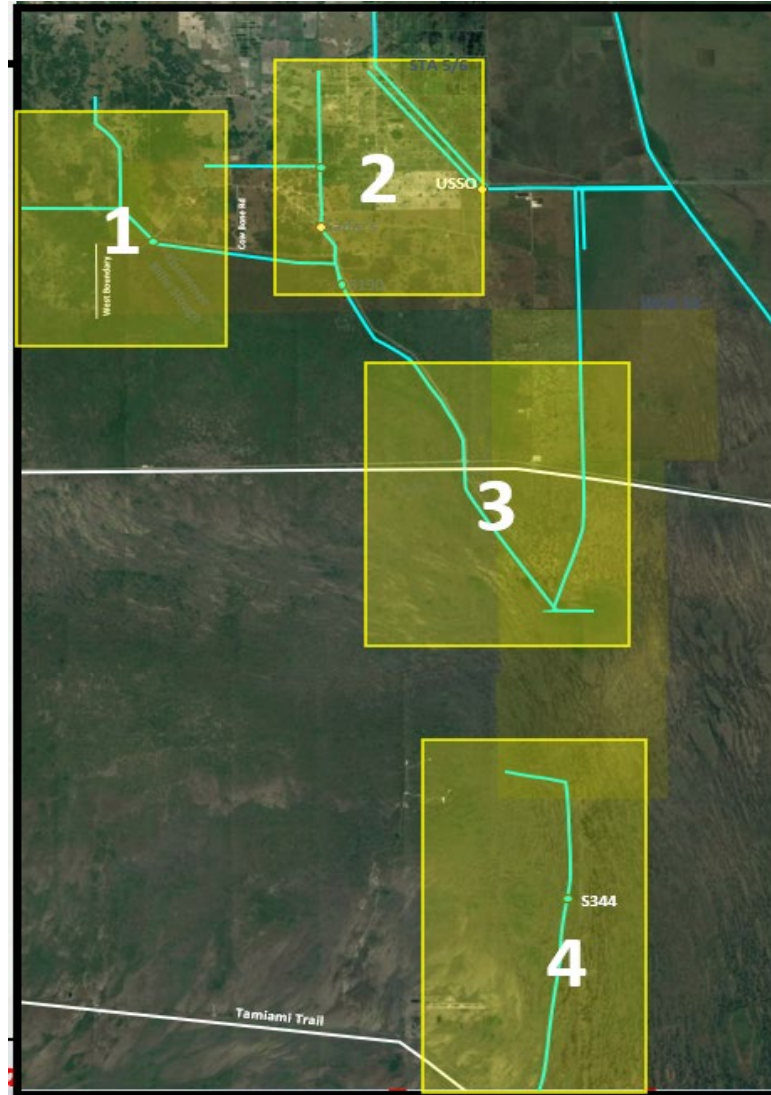


U.S. ARMY

# WESTERN EVERGLADES RESTORATION PROJECT (WERP)



- WERP FOCUS AREAS:**
1. WESTERN AREA
  2. EASTERN AREA
  3. CENTRAL AREA
  4. SOUTHERN AREA



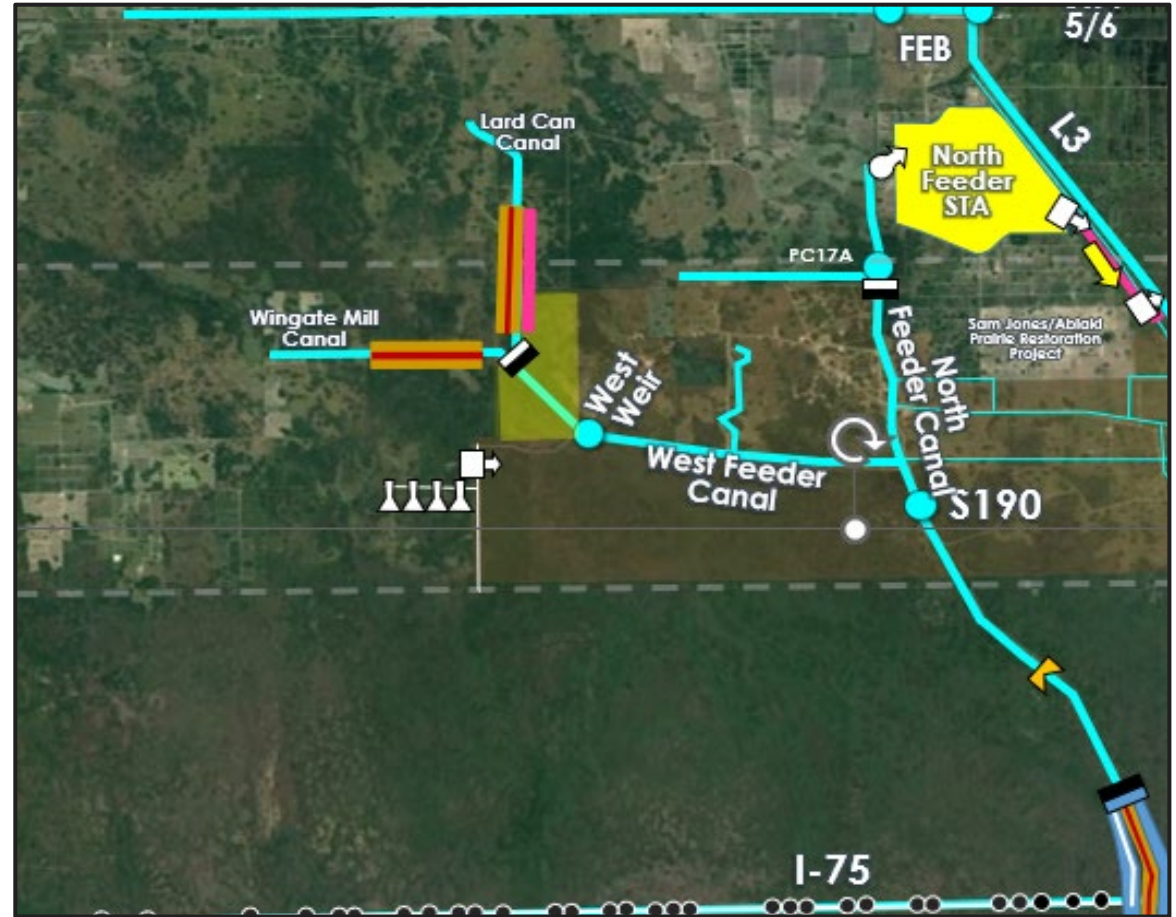
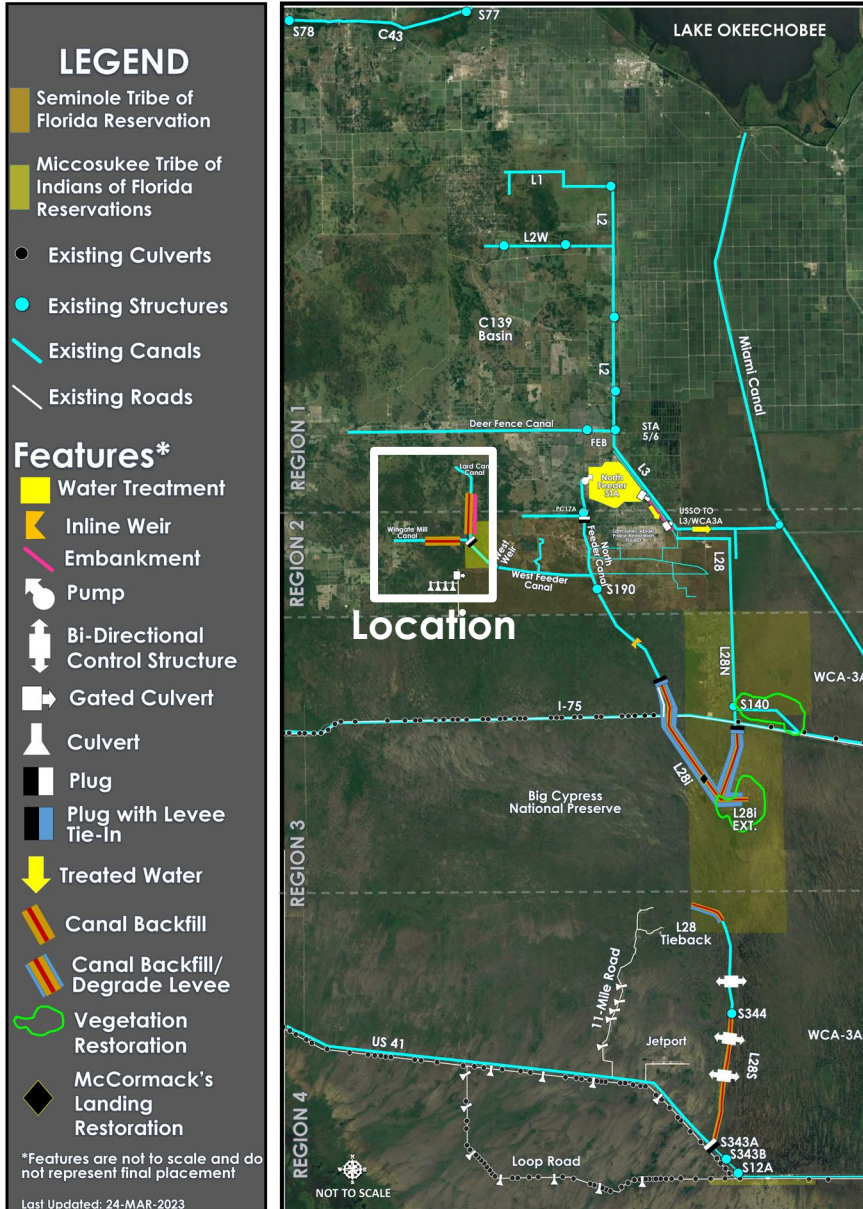
- When we say “Focus Areas”, we are referring to the 4 blocks of areas, as shown to the right
  - ▶ Used to communicate groupings of where features are located
- Often used when discussing:
  - ▶ Specific structural and nonstructural management measures at specific locations

**WERP Focus Areas – Area 3 is Dependent on Areas 1 and 2**



U.S. ARMY

# WESTERN EVERGLADES RESTORATION PROJECT (WERP)



## ALTERNATIVE HYBRID NATURAL FLOW (HNF)

### RESTORE RAIN-DRIVEN SYSTEM WITH EXISTING WATER/OPERATIONAL FLEXIBILITY

*\*Under review by the Project Delivery Team\**



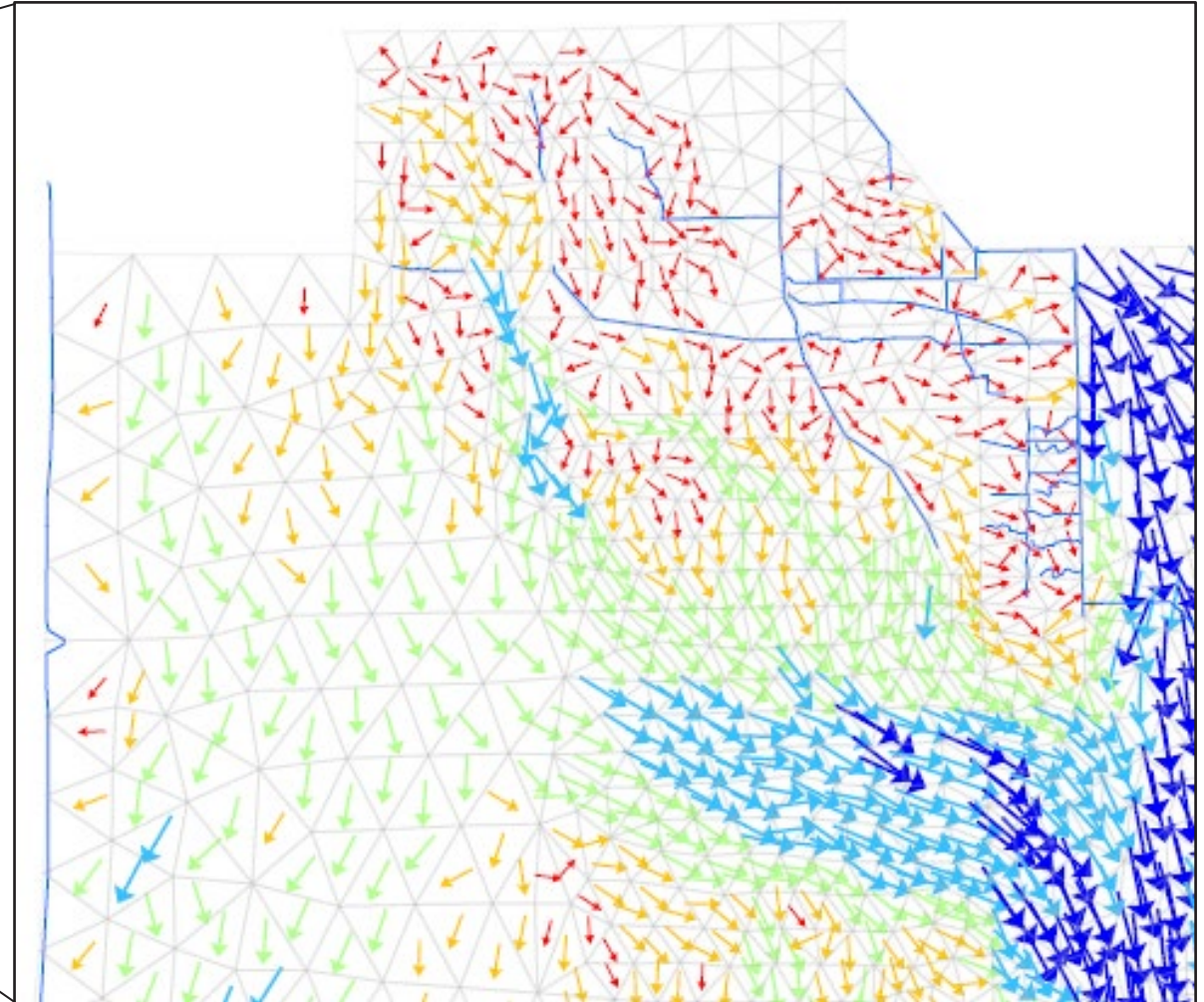
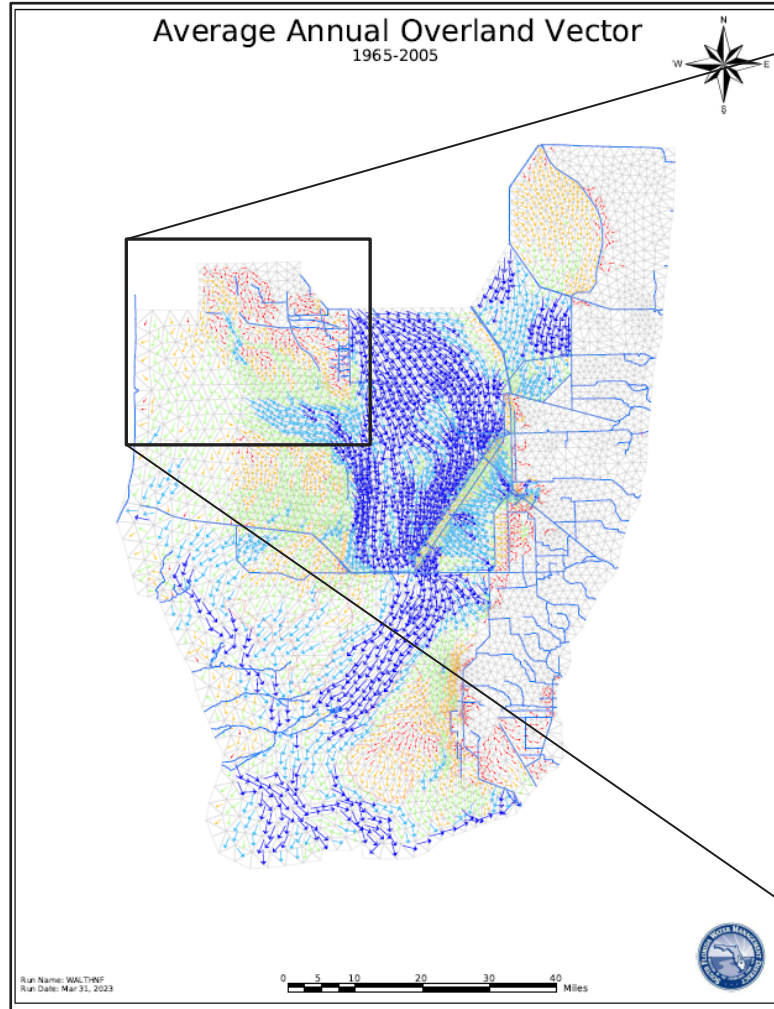


U.S. ARMY

# WESTERN EVERGLADES RESTORATION PROJECT (WERP)



## WERP FLOWS – ALT HNF UNDER REVIEW BY PDT



RSM Overland Flow Vector Map of ALT HNF





U.S. ARMY

# WESTERN EVERGLADES RESTORATION PROJECT (WERP)



## TENTATIVE SCHEDULE – UNDER REVIEW

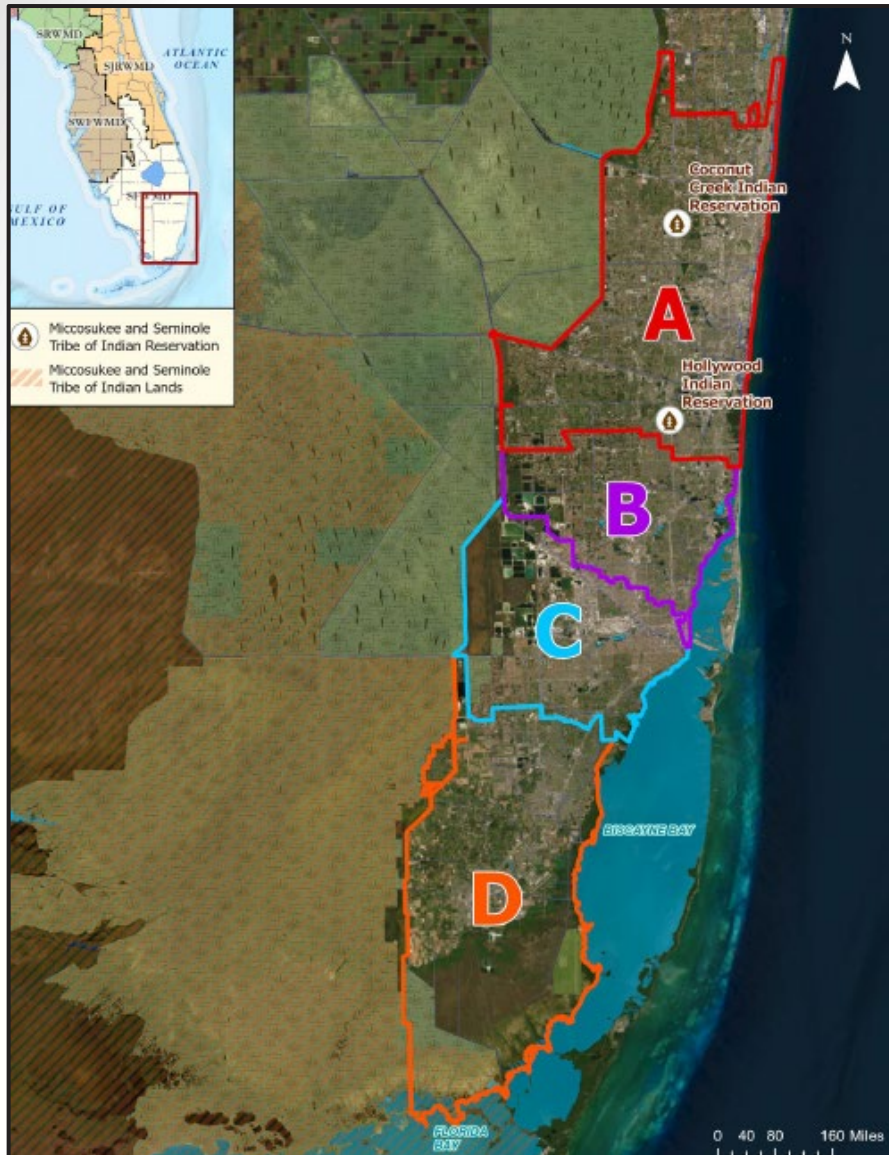
Milestone	Approved 2 <sup>ND</sup> Exception	Targets (Under Review)
Tentatively Selected Plan	22 Aug 22	30 Oct 23
Release Draft Project Implementation Report (PIR)	21 Sep 22	30 Dec 23
Agency Decision Milestone	24 Jan 23	29 Mar 24
Final PIR	18 Aug 23	30 Sep 24
Chief's Report	30 Nov 23	20 Dec 24

3x3x3 Exception Request for Additional Time/Budget Under Review



U.S. ARMY

# 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
- Initial Array of Alternatives and Alternatives Milestone Meeting in March 2023.
- Updating Project Management Plan, scope, schedule, and funding.
- Ongoing engagement with stakeholders.

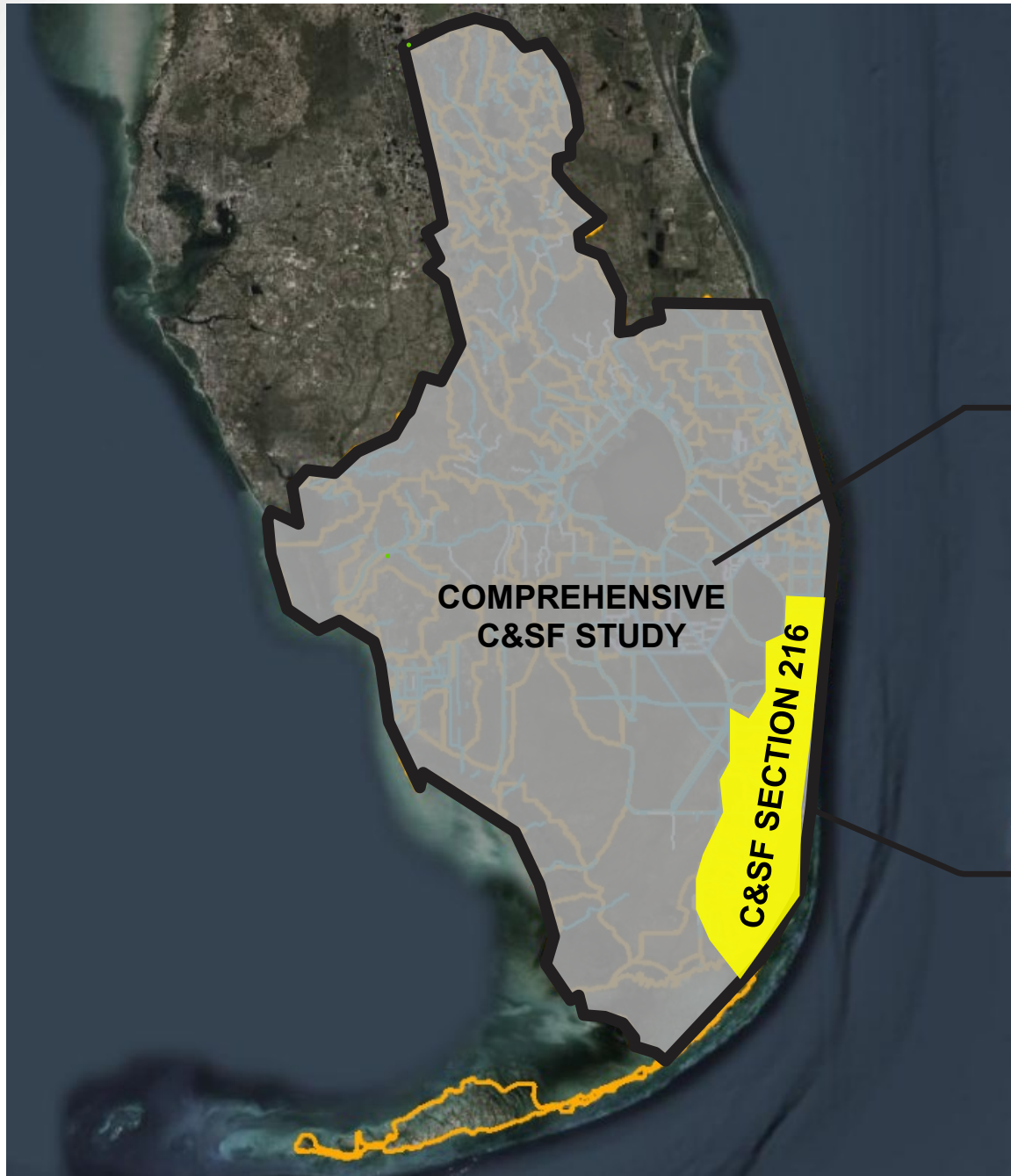




U.S. ARMY



# C&SF RESILIENCE PROGRAM PLANNING



## WRDA22, Section 8214

### **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)

### **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



U.S. ARMY



## 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)





U.S. ARMY

# PICAYUNE STRAND RESTORATION PROJECT



Levee Construction – Southwest Protection Feature  
May 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



U.S. ARMY

# INDIAN RIVER LAGOON – SOUTH PROJECT



C-23/C-24 Stormwater Treatment Area Construction, April 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





U.S. ARMY

# BISCAYNE BAY COASTAL WETLANDS



S-705 Construction Site

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-709, S-710, and S-711.
- Anticipated Ribbon Cutting, S-709, Summer 2023.



U.S. ARMY

# CENTRAL EVERGLADES PLANNING PROJECT



Everglades Agricultural Area (EAA) Reservoir,  
Construction of Inflow-Outflow and Seepage Canals  
Underway, May 2023

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.

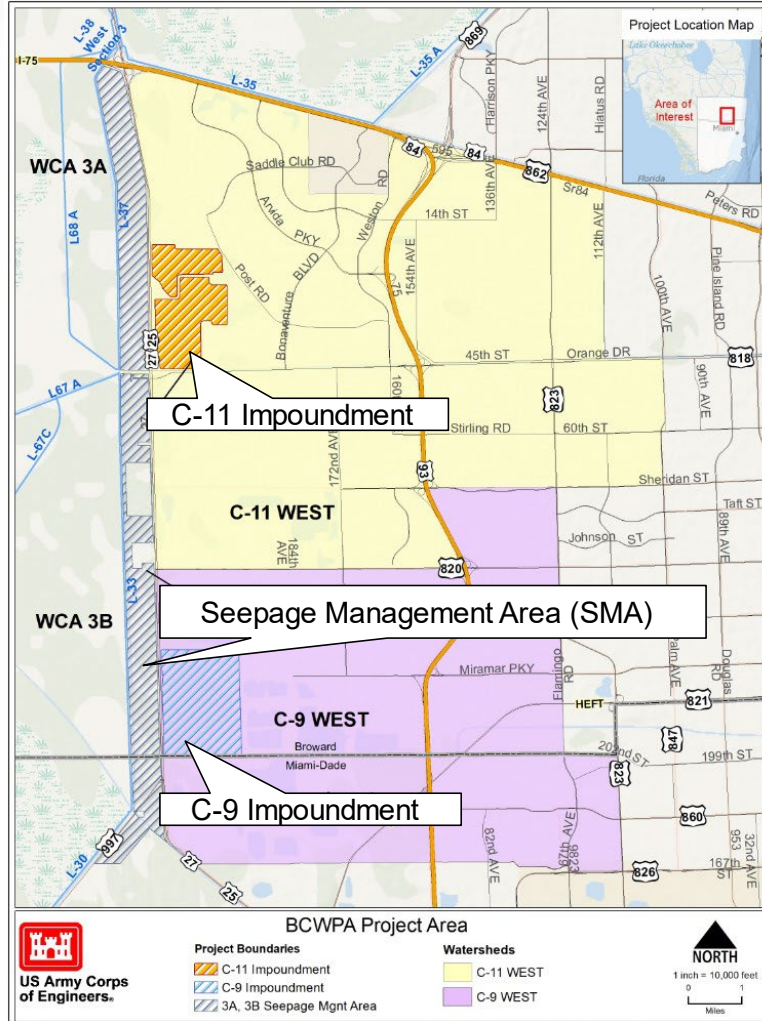
## Status:

- CEPP - 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 FY23.
- 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.





# 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.



U.S. ARMY



## 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





U.S. ARMY

# 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 starting.



U.S. ARMY

# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM | OPERATIONS

## INDIAN RIVER LAGOON - SOUTH



C-44 Reservoir

### C-44 Reservoir Status

- Operational monitoring and testing period, extended.
- Up to 10-feet now, 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.





U.S. ARMY

# 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.



U.S. ARMY

# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM | OPERATIONS

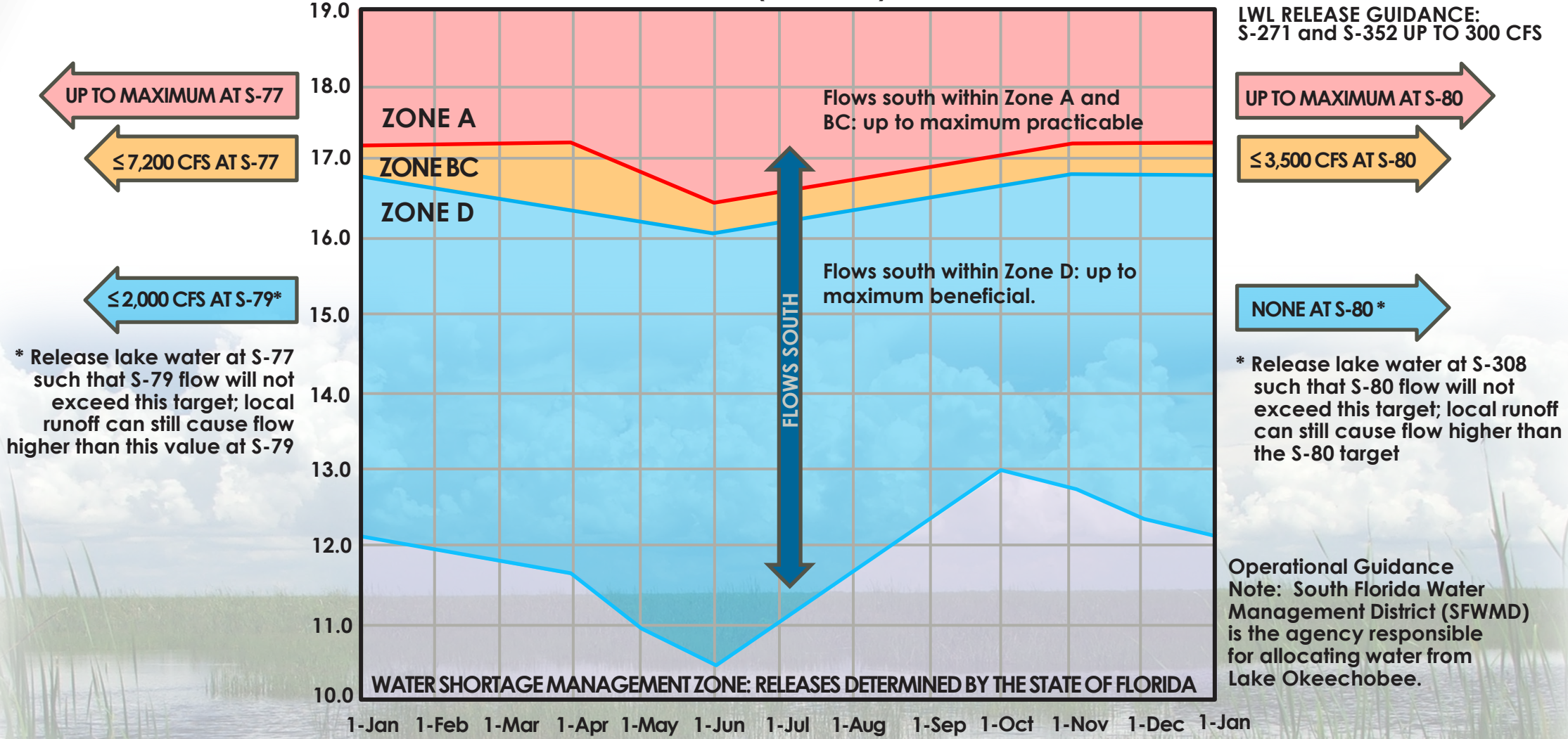
## LOSOM REGULATION SCHEDULE



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 (July 2023)
- NEPA public, agency, and tribal review of Final EIS and SOM (October 2023)
- Corps SAD review and approval of Record of Decision (ROD) (December 2023)

March 2023 – December 2023

DOCUMENTATION PROCESS



U.S. ARMY

# SOUTH FLORIDA ECOSYSTEM RESTORATION PROGRAM | OPERATIONS

## CENTRAL EVERGLADES PLANNING PROJECT OPERATIONAL PLAN (INCREMENTAL)

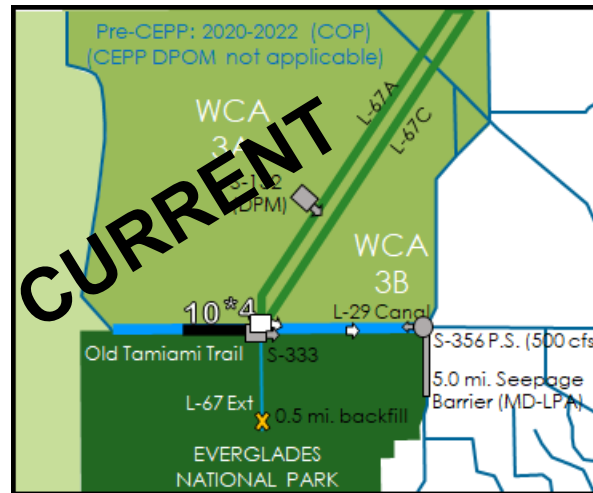


### Project Purpose:

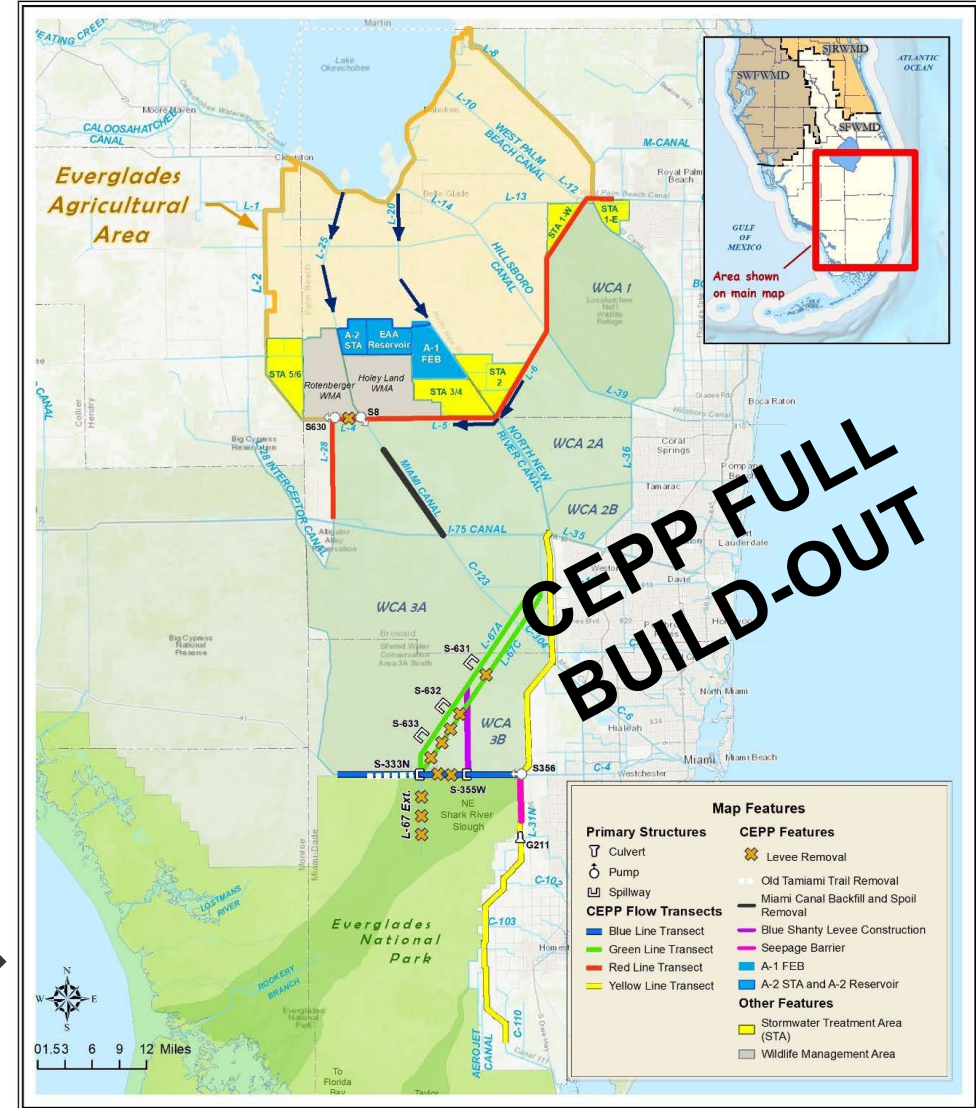
- The Central Everglades Planning Project (CEPP) Operations Plan aims to redistribute Water Conservation Area (WCA) 3A inflows to enhance flows into Everglades National Park (ENP).
- Incremental changes to the Combined Operations Plan (COP) to include Central Everglades Restoration Projects (CERP) and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

### Status:

- Public scoping meetings held in April 2023. Scoping period concluded in mid May 2023.
- NEXT: Set up sub-teams, plan formulation strategy with PDT



**INTERIM  
OPERATIONS  
AND BENEFITS**







# We're Hiring!



## JOIN THE JACKSONVILLE DISTRICT TEAM

### **SEEKING TO FILL MULTIPLE POSITIONS !**

Biologists, Physical Scientists, Program Analysts, Engineers,  
Geologists, Hydrologists, Administrative and many more.

Submit Resumes To: [HRJAX@USACE.ARMY.MIL](mailto:HRJAX@USACE.ARMY.MIL)



Scan the QR code for job information  
or visit

<https://www.saj.usace.army.mil/NowHiring/>



# SUPPORTING INFORMATION



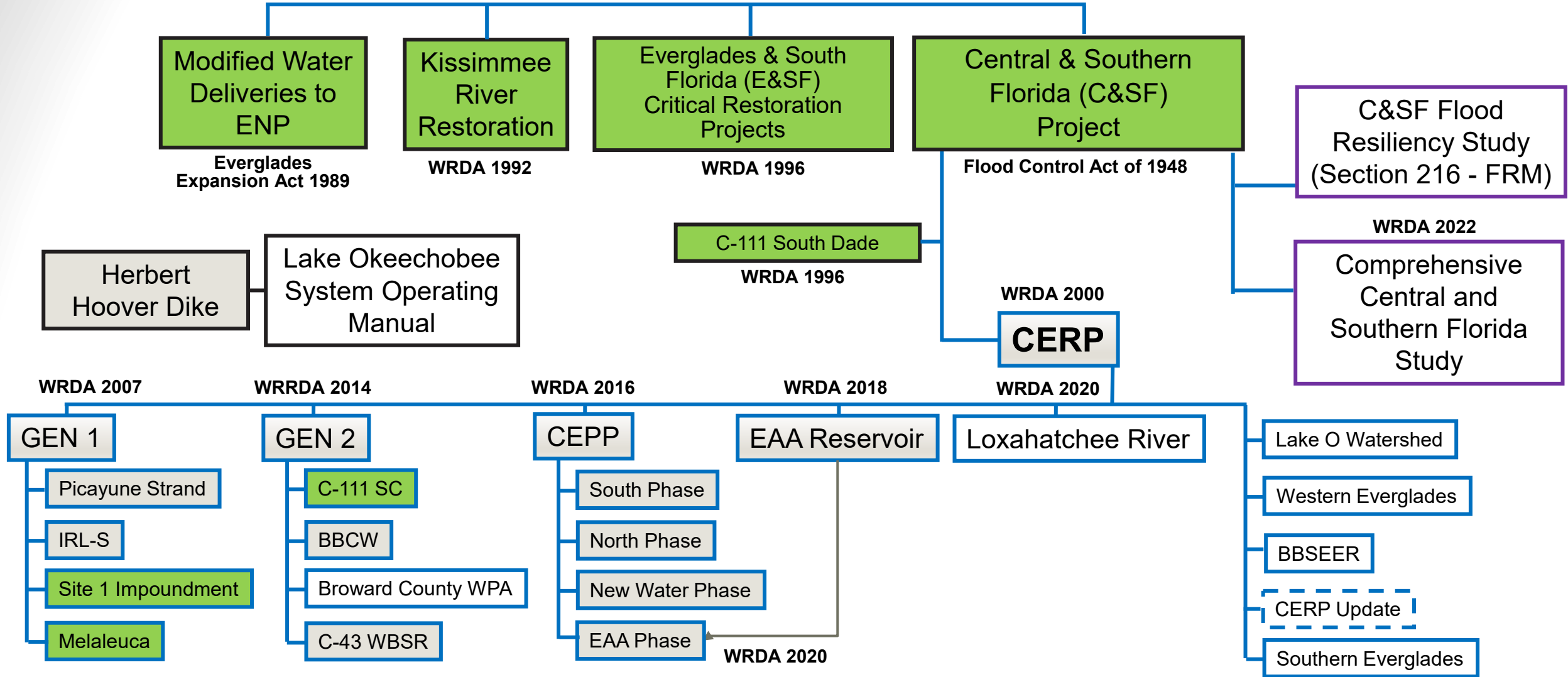


U.S. ARMY

# SOUTH FLORIDA ECOSYSTEM RESTORATION AND C&SF RESILIENCE PROGRAMS



## PROGRAM STRUCTURE



5/25/2023

  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