

U.S. ARMY CORPS OF ENGINEERS (USACE) COMPREHENSIVE EVERGLADES RESTORATION PLAN (CERP) COMPONENTS OVERVIEW

Presented by: Tabitha Elkington, PhD
Strategic Program Manager, South Florida Environmental Restoration Program
Ecosystem Branch, Jacksonville District, U.S. Army Corps of Engineers

16 May 2024



**US Army Corps
of Engineers** ®

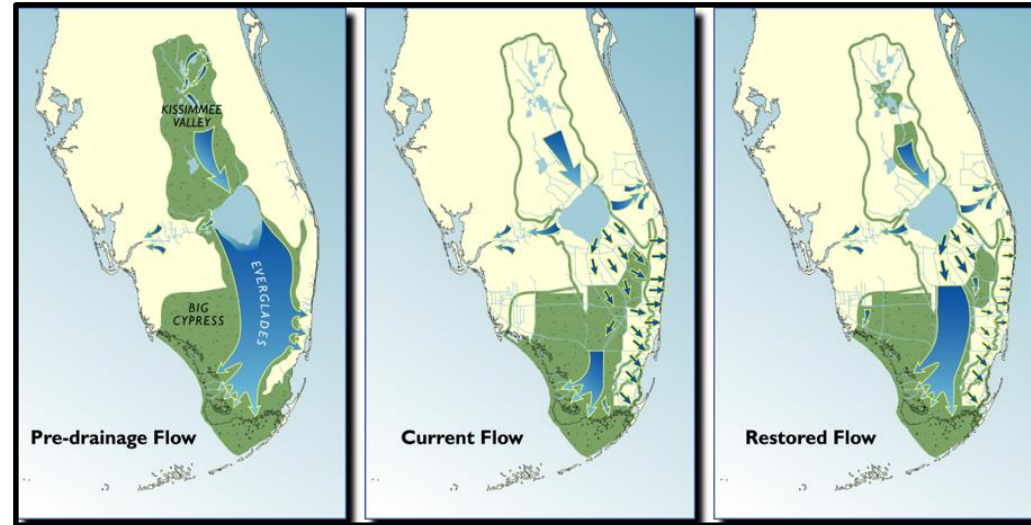
"The views, opinions and findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."

10/24/2024
10:00 AM
10/24/2024



68 COMPONENTS FACTS

To achieve the vision of Everglades restoration, changes to the Southern Florida (C&SF) System are needed – meaning features and water management operations.



- All CERP components are part of the **Restudy or "Yellow Book"** and are labeled as a letter (Component A) or as an Other Project Element (OPE).
- A component can be new or a modification to infrastructure, or an operational change to the C&SF.

- The CERP framework and first 10 CERP projects were authorized in the Water Resources Development Act (WRDA) 2000.
- Congress provides additional authorizations to start construction of one or more components in WRDAs. These authorizations are the mechanism in which **components** become Federal **projects**.

- Since WRDA 2000, several components have been authorized through project for construction, others completed, or implemented.
- A status is summarized in several documents (e.g., South Florida Water Management District (SFWMD) **South Florida Environmental Report (SFER)**, and the **Integrated Delivery Schedule (IDS)**).



WHERE CAN I FIND THE COMPONENTS IN THE IDS?

INTEGRATED DELIVERY SCHEDULE 2022 UPDATE
CENTRAL AND SOUTHERN FLORIDA COMPREHENSIVE EVERGLADES RESTORATION PLAN

SOUTH FLORIDA ECOSYSTEM RESTORATION
 The Comprehensive Everglades Restoration Plan (CERP) is the largest ecosystem restoration effort in the nation spanning over 1.5 million acres and is designed to improve the health of the ecosystem. The Integrated Delivery Schedule (IDS) is a forward-looking schedule of project planning, design, construction, and operations that provides visibility into the project's progress. It includes the Integrated Delivery Schedule (IDS), the Integrated Delivery Schedule (IDS), and the Integrated Delivery Schedule (IDS).

Category	2023	2024	2025	2026	2027
Planned	\$ 294	\$ 311	\$ 311	\$ 311	\$ 311
Planned	\$ 488	\$ 488	\$ 488	\$ 488	\$ 488
Planned	\$ 374	\$ 374	\$ 374	\$ 374	\$ 374
Planned	\$ 1,444	\$ 1,444	\$ 1,444	\$ 1,444	\$ 1,444

SOUTH FLORIDA ECOSYSTEM RESTORATION AND GETTING THE WATER RIGHT - 2022 UPDATE

THE RESTORATION FRAMEWORK
 OPERATIONS IN SYNC WITH PROJECT DELIVERY
 Restoration activities including operational components recommended in the CERP occur within the context of the CERP Project. The CERP Project includes major, active operations and several hundred water control structures and pump stations providing the water control authority. Operationally, the CERP Project is designed to provide the water control authority for flood control, water control, regional groundwater control, and supply, navigation, recreation, and preservation of fish and wildlife.

COMPONENTS AND PROJECTS
 The CERP identified six components that can restore the health of the ecosystem. Through a rigorous planning process, the components described in the CERP "Yellow Book" are combined into 50+ implementable projects that become part of the Integrated Delivery Schedule (IDS).

SOM VOLUMES BY REGION
 The SOM consists of 7 volumes, organized according to geographical regions, that collectively provide a system-wide framework for the operation of CERP and CERP components that projects function in a coordinated, systematic way.

2022 IDS PLACEMAT

SOUTH FLORIDA ECOSYSTEM RESTORATION INTEGRATED DELIVERY SCHEDULE

2022 IDS PLACEMAT
 This placemat maps the components of the 2022 Integrated Delivery Schedule (IDS) onto the South Florida Ecosystem Restoration map. The components are color-coded by region: SC (Yellow), GE (Green), NE (Red), and All (Blue). The placemat is divided into phases: COMPLETE OR PHASE 1 IMPLEMENTED, AUTHORIZED/DESIGN/CONSTRUCTION, and TENDING. A table on the right lists the components with their region, name, and code.

RR	YELLOW BOOK NAME AND CODE
SC	Change Coastal Wellfield Operations (L)
GE	Site 1 Impoundment with ASR* (M)
GE	C-4 Structures (T)
LO	Taylor Creek/Nubbin Slough Storage and Treatment Area* (W)
GE	Modified Holy Land Wildlife Management Area Water Management Operations (DD)
GE	Modified Rotenberger Wildlife Management Area Water Management Operations (EE)
SC	C-111 Spreader Canal* (WW) - Phase 2 in Planning
GE	Lower East Coast Water Conservation (AAA)
GE	C-51* and Southern L-8 Reservoir (GGG)
LO	Lake Okeechobee Watershed Water Quality Treatment Facilities* (OPE)
GE	Acme Basin B (OPE)
NE	Lake Worth Lagoon Restoration* (OPE)
GE	Winsberg Farms Wetlands Restoration (OPE)
GE	Protect and Enhance Existing Wetlands Systems along Lox (Strazzulla Tract) (OPE)
GE	Southern CREW Project Addition (OPE)
GE	Lake Trafford Restoration (OPE)
GE	Henderson Creek/Belle Meade Restoration (OPE)
GE	Lake Park Restoration (OPE)
SC	Florida Keys Tidal Restoration (OPE)
ALL	Melaleuca Eradication and Other Exotic Plants (OPE)
NE	St. Lucie/C-44 Basin Storage Reservoir (B)
NE	Environmental Water Supply Deliveries to St. Lucie Estuary (C)
NE	Caloosahatchee Basin Storage Reservoir with ASR* (D)
NE	Environmental Water Supply Deliveries to Caloosahatchee Estuary (E)
GE	EAA Storage Reservoir (G)
GE	Everglades Rain-Driven Operations* (H)
GE	L-8 Project (K)

SOM VOLUMES BY REGION
 This map shows the geographic distribution of the seven SOM volumes across South Florida. The regions are color-coded: 1 (Orange), 2 (Yellow), 3 (Light Green), 4 (Green), 5 (Dark Green), 6 (Light Blue), and 7 (Dark Blue).

1. SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER)
 1.1 Lake Okeechobee Water Quality Treatment Facilities* (OPE)
 1.2 Lake Okeechobee Watershed Water Quality Treatment Facilities* (OPE)
 1.3 Lake Okeechobee Watershed Water Quality Treatment Facilities* (OPE)

2. LOWER EAST COAST WATER CONSERVATION (AAA)
 2.1 Lower East Coast Water Conservation (AAA)
 2.2 Lower East Coast Water Conservation (AAA)
 2.3 Lower East Coast Water Conservation (AAA)

3. CALOOSAHATCHEE BASIN STORAGE RESERVOIR WITH ASR* (D)
 3.1 Caloosahatchee Basin Storage Reservoir with ASR* (D)
 3.2 Caloosahatchee Basin Storage Reservoir with ASR* (D)
 3.3 Caloosahatchee Basin Storage Reservoir with ASR* (D)

4. ENVIRONMENTAL WATER SUPPLY DELIVERIES TO CALOOSAHATCHEE ESTUARY (E)
 4.1 Environmental Water Supply Deliveries to Caloosahatchee Estuary (E)
 4.2 Environmental Water Supply Deliveries to Caloosahatchee Estuary (E)
 4.3 Environmental Water Supply Deliveries to Caloosahatchee Estuary (E)

5. ENVIRONMENTAL WATER SUPPLY DELIVERIES TO ST. LUCIE ESTUARY (C)
 5.1 Environmental Water Supply Deliveries to St. Lucie Estuary (C)
 5.2 Environmental Water Supply Deliveries to St. Lucie Estuary (C)
 5.3 Environmental Water Supply Deliveries to St. Lucie Estuary (C)

6. MELALEUCA ERADICATION AND OTHER EXOTIC PLANTS (OPE)
 6.1 Melaleuca Eradication and Other Exotic Plants (OPE)
 6.2 Melaleuca Eradication and Other Exotic Plants (OPE)
 6.3 Melaleuca Eradication and Other Exotic Plants (OPE)

7. SOUTHWEST FLORIDA (SW)
 7.1 Southwest Florida (SW)
 7.2 Southwest Florida (SW)
 7.3 Southwest Florida (SW)

CERP COMPONENTS STATUS AND LOCATIONS BY RECOVERY REGIONS
 NOTE: Authorized projects are listed on the front page of this Integrated Delivery Schedule Placemat.

COMPLETE OR PHASE 1 IMPLEMENTED
 AUTHORIZED/DESIGN/CONSTRUCTION
 TENDING
 RUCON

COMPLETE OR PHASE 1 IMPLEMENTED

#	RR	YELLOW BOOK NAME AND CODE
10	SC	Change Coastal Wellfield Operations (L)
11	GE	Site 1 Impoundment with ASR* (M)
16	GE	C-4 Structures (T)
19	LO	Taylor Creek/Nubbin Slough Storage and Treatment Area* (W)
25	GE	Modified Holy Land Wildlife Management Area Water Management Operations (DD)
26	GE	Modified Rotenberger Wildlife Management Area Water Management Operations (EE)
38	SC	C-111 Spreader Canal* (WW) - Phase 2 in Planning
42	GE	Lower East Coast Water Conservation (AAA)
48	GE	C-51* and Southern L-8 Reservoir (GGG)
50	LO	Lake Okeechobee Watershed Water Quality Treatment Facilities* (OPE)
56	GE	Acme Basin B (OPE)
57	NE	Lake Worth Lagoon Restoration* (OPE)
58	GE	Winsberg Farms Wetlands Restoration (OPE)
60	GE	Protect and Enhance Existing Wetlands Systems along Lox (Strazzulla Tract) (OPE)
64	GE	Southern CREW Project Addition (OPE)
65	GE	Lake Trafford Restoration (OPE)
66	GE	Henderson Creek/Belle Meade Restoration (OPE)
67	GE	Lake Park Restoration (OPE)
68	SC	Florida Keys Tidal Restoration (OPE)
69	ALL	Melaleuca Eradication and Other Exotic Plants (OPE)
2	NE	St. Lucie/C-44 Basin Storage Reservoir (B)
3	NE	Environmental Water Supply Deliveries to St. Lucie Estuary (C)
4	NE	Caloosahatchee Basin Storage Reservoir with ASR* (D)
5	NE	Environmental Water Supply Deliveries to Caloosahatchee Estuary (E)
7	GE	EAA Storage Reservoir (G)
8	GE	Everglades Rain-Driven Operations* (H)
9	GE	L-8 Project (K)

EXAMPLE

Reference: 2022 Integrated Delivery Schedule (IDS)



COMPONENT VS. PROJECT



CENTRAL EVERGLADES RESTORATION PROJECT (CEPP)

Authorized: WRDA 2016, 2018 and 2020

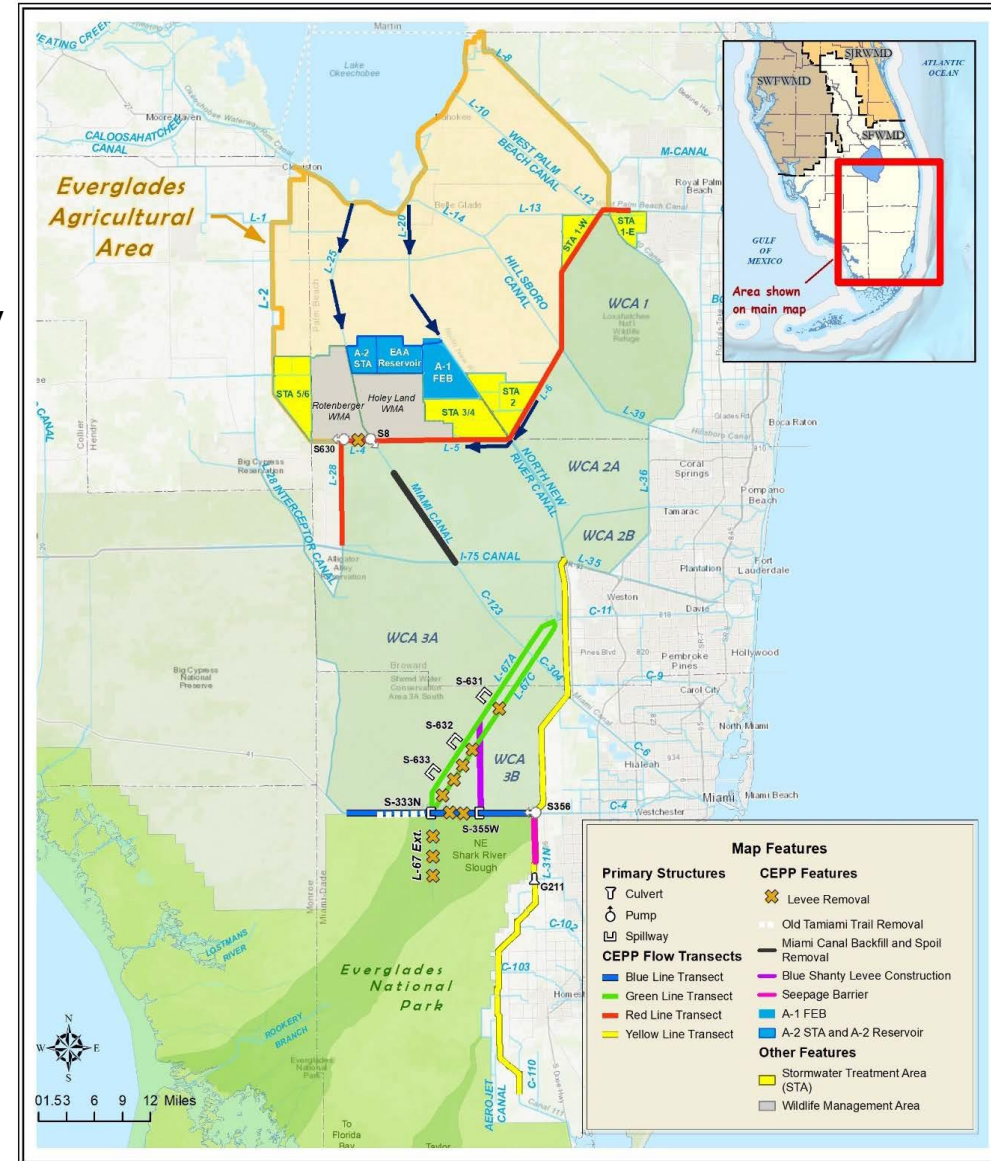
CERP Components (9):

1. **Component C:** Environmental Water Supply Deliveries to St. Lucie Estuary
2. **Component E:** Environmental Water Supply Deliveries to Caloosahatchee Estuary
3. **Component G:** Everglades Agricultural Area (EAA) Storage Reservoir
4. **Component H:** Everglades Rain-Driven Operations
5. **Component V:** L-31N Improvements for Seepage Management
6. **Component AA:** Additional S-345 Structures
7. **Component FF:** Construction of S-356 A & B Structures
8. **Component II:** Pump Station G-404 Modification
9. **Component QQ:** Decompartmentalization of Water Conservation Area 3

Did you know?

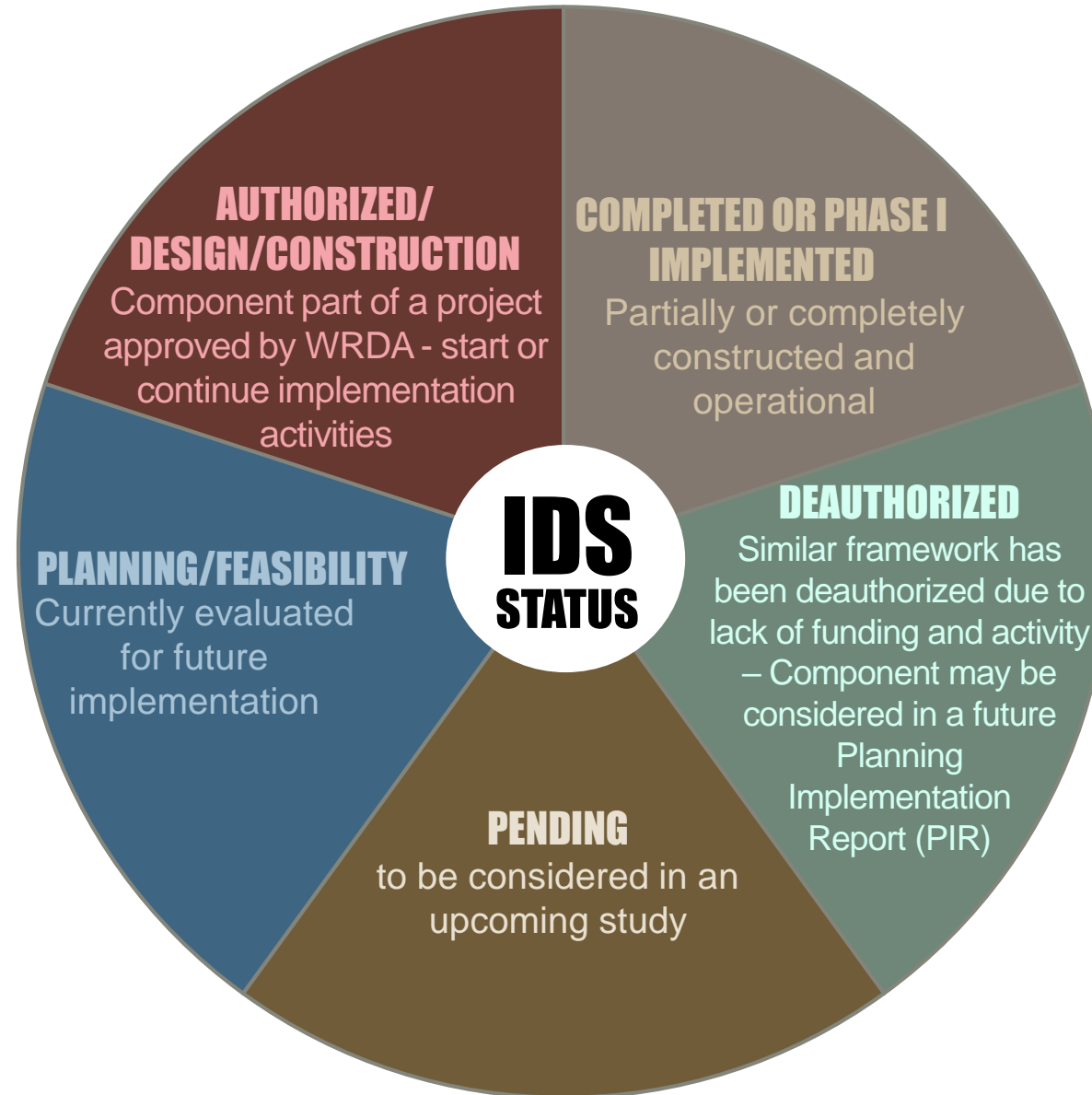
The IDS Placemat recognizes both projects and components. Check it out!

PROJECT LOCATOR	YELOW BOOK COMPONENTS	PROJECT
P14	AA, FF, H, QQ P1, G	Central Everglades Planning Project (CEPP)
	QQ	Decomp Physical Model (work performed under Master Design Agreement)





STATUS TERMINOLOGY OVERVIEW



 **Did you know?**

Asterisks "*" by the name of a component means that it contains Phases.



2022 SFWMD SOUTH FLORIDA ENVIRONMENTAL REPORT



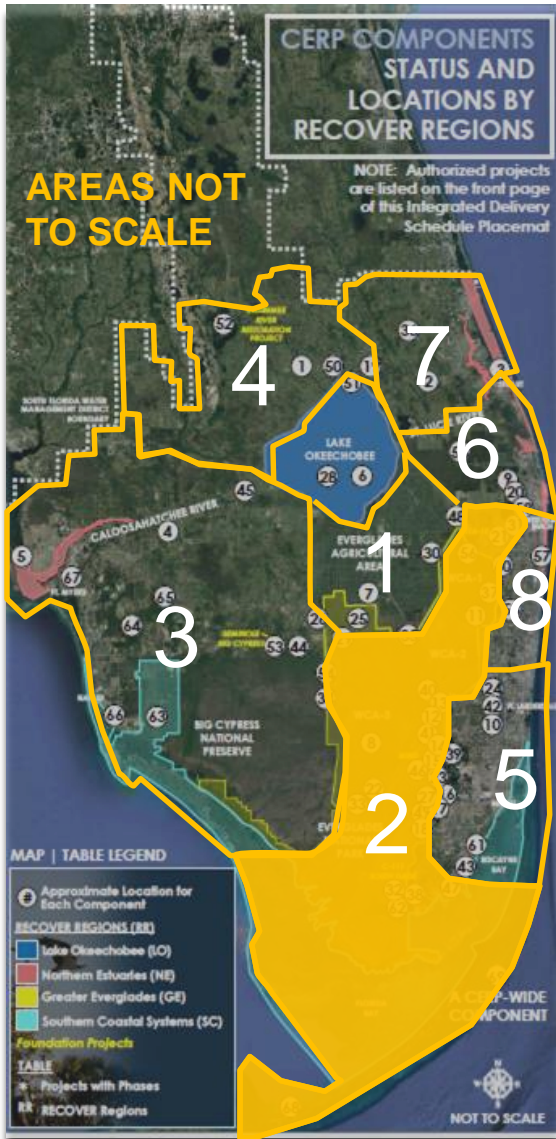
Total of 68 components and the systemwide OPE Melaleuca Eradication

Areas Number	Areas Name	Num of Restudy Comps.	Restudy Component
1	Everglades Agricultural Area	3	G, DD, EE
2	Everglades, Florida Bay and the Keys	15	II, RR, AA, QQ, SS, ZZ, EEE, V, FF, U, WW, OO, OPE(2), H
3	Lower West Coast	10	D, E, DDD, CCC, OPE(6)
4	Lake Okeechobee Watershed	7	A, W, F, OPE(3), GG
5	Miami-Dade County Region	9	XX, S, OPE(2), FFF, L, HHH, BBB, BB
6	Loxahatchee River Watershed	9	OPE(3), KK, K, GGG, X, Y, LL
7	Upper East Coast Region (Indian River Lagoon - South)	3	B, UU, C
8	Water Preserve Areas	12	VV, M, CC, OPE(3), Q, O, R, T, YY, AAA

Reference: [2022 South Florida Environmental Report - Volume I, Appendix 1-2](#)



AREA 2 | EVERGLADES, FLORIDA BAY AND THE KEYS



Component H: Everglades Rain-Driven Operations (Phases)

- 2022 IDS Status: Active and authorized/design/construction

Component U: Bird Drive Recharge Basin

- 2022 IDS Status: Pending (forthcoming Southern Everglades)

Component V: L-31N Improvements for Seepage Management

- 2022 IDS Status: Active and authorized/design/construction

Component AA: Additional S-345 Structures (Phases)

- 2022 IDS Status: Active and authorized/design/construction

Component FF: Construction of S-356 A & B Structures (Phases)

- Divided into 2 sub-components
 - ✓ Increase S-356 A Pump Station;
 - ✓ Increase S-356 B
- 2022 IDS Status: Active and authorized/design/construction

Component II: Pump Station G-404 Modification

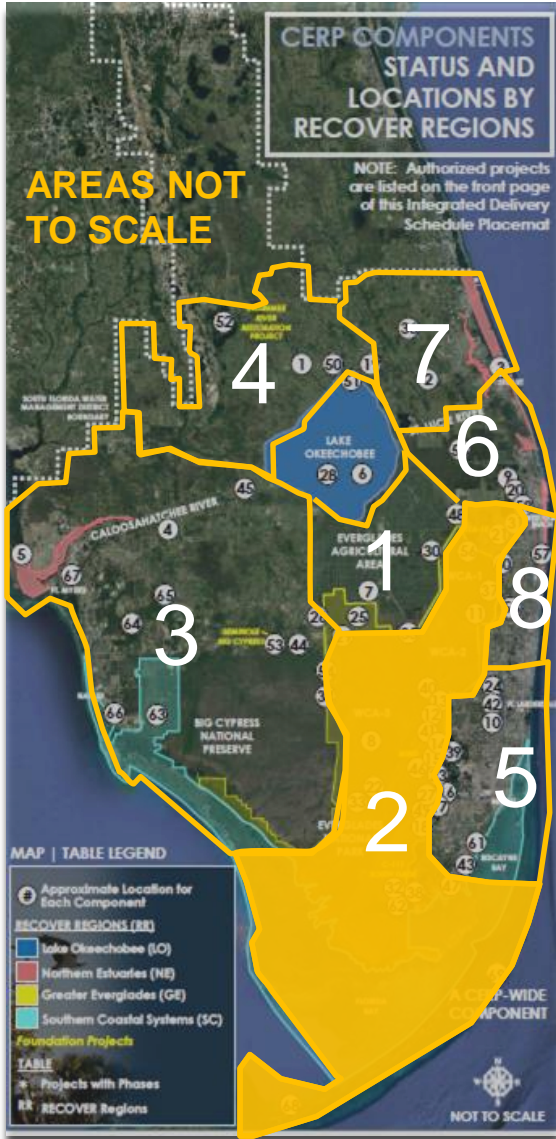
- 2022 IDS Status: Active and authorized/design/construction

Did you know?

Components are evaluated and sometimes modified through the planning process. **Example:** S-356 B sub-component was superseded by CEPP.



AREA 2 | EVERGLADES, FLORIDA BAY AND THE KEYS CONTINUED



Component OO: Modification to South Dade Conveyance System (SDCS) in southern portion of L-31N and C-111

- 2022 IDS Status: Active and authorized/design/construction

Component QQ: Decompartmentalization of Water Conservation Area 3 (Phases)

- Divided into 3 sub-components
 - ✓ Decomp Physical Model
 - ✓ CEPP South
 - ✓ Decompartmentalization Phase II
- 2022 IDS Status: Active and authorized/design/construction
Ongoing: *Western Everglades Restoration Project (WERP)*, Forthcoming planning/feasibility (additional Phases) (Southern Everglades)

Component RR: Flow to Central Water Conservation Area 3A

- 2022 IDS Status: Active and in planning/feasibility (WERP)

Component SS: Re-route Miami-Dade Water Supply Deliveries

- 2022 IDS Status: Deauthorized

Component WW: C-111 Spreader Canal (Phases)

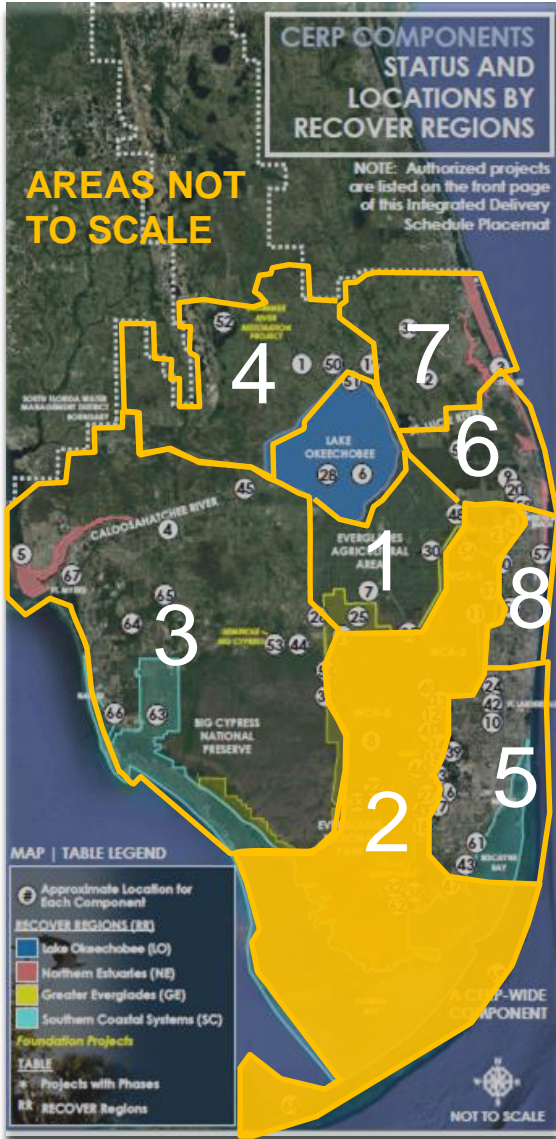
- Divided into 2 sub-components
 - ✓ Western and Eastern projects
- 2022 IDS Status: Complete or Phase I implemented
Ongoing: Active and in planning/feasibility (Phase II - BBSEER)

Did you know?

The IDS is a snapshot in time of each component status. Statuses change as our teams collaborate!
Example: Component WW, eastern project is currently been evaluated under Biscayne Bay Southeastern Everglades Ecosystem Restoration ([BBSEER](#)).



AREA 2 | EVERGLADES, FLORIDA BAY AND THE KEYS CONTINUED



Component ZZ: Divert Water Conservation Area 3 (WCA3) flows to Central Lake Belt Storage Area

- 2022 IDS Status: Pending
- Ongoing:* Forthcoming planning/feasibility (Southern Everglades)

Component EEE: Flows to eastern Water Conservation Area

- 2022 IDS Status: Pending
- Ongoing:* Forthcoming planning/feasibility (Southern Everglades)

OPE: Miccosukee Water Management Plan

- 2022 IDS Status: Pending

OPE - Florida Keys Tidal Restoration

- 2022 IDS Status: Complete or Phase I Implemented

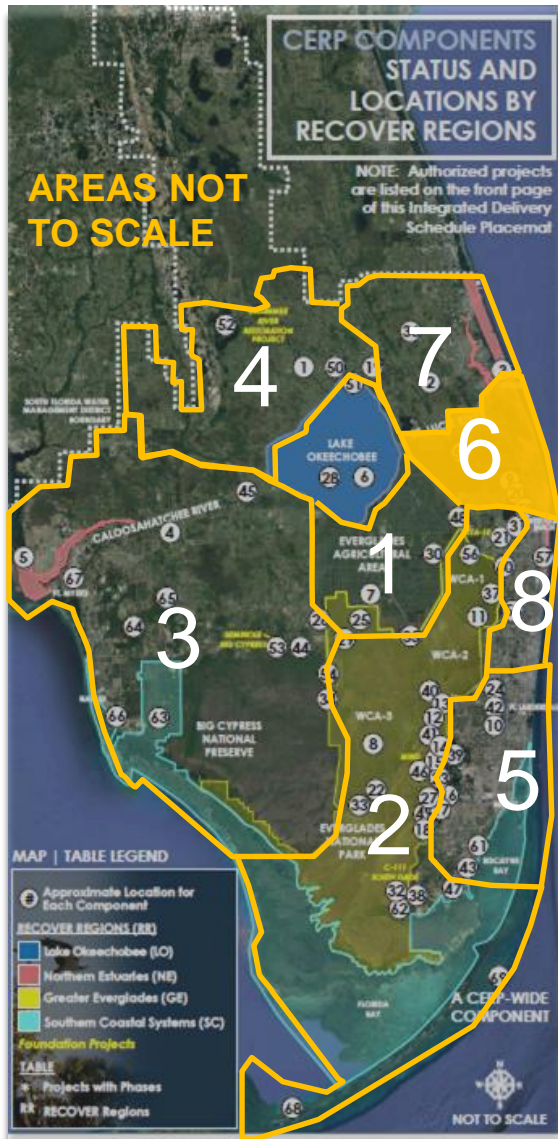
Did you know?

There are some components that are directly interconnected. A change in the concept of one component would trigger a “domino effect” to others.

Example: Component ZZ, EEE and S.



AREA 6 | LOXAHATCHEE RIVER WATERSHED



Component K: L-8 Project

- Divided into 3 sub-components
 - ✓ Loahatchee River Watershed Restoration Project (LRWRP) Flow-way 1
 - ✓ LRWRP Flow-way 2
 - ✓ LRWRP ASR
- 2022 IDS Status: Active and authorized/deign/construction
Ongoing: Authorized under [LRWRP](#) in WRDA 2020

Component X: C-17 Backpumping

- 2022 IDS Status: Pending

Component Y: C-51 Backpumping to West Palm Beach Water Catchment Area

- 2022 IDS Status: Pending

Component KK: Loahatchee National Wildlife Refuge Internal Canal Structures

- 2022 IDS Status: Pending

Component LL: C-51 Regional Groundwater ASR

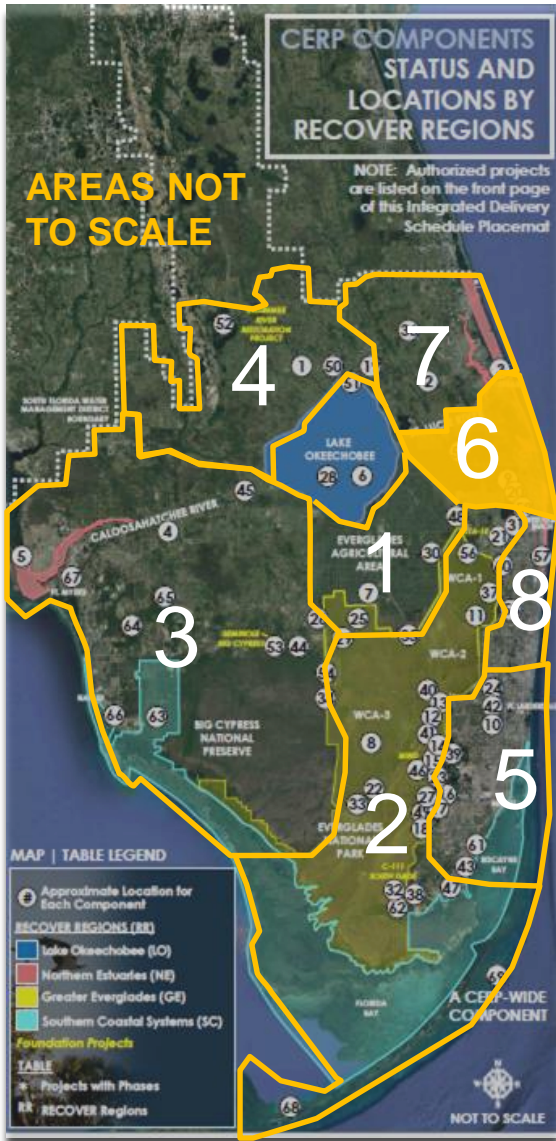
- 2022 IDS Status: Pending

Component GGG: C-51 and Southern L-8 Reservoir (Phases)

- 2022 IDS Status: Complete or Phase I Implemented (Southern L-8 Reservoir)



AREA 6 | LOXAHATCHEE RIVER WATERSHED CONTINUED



OPE: Pal Mar and J.W. Corbett Wildlife Management Area Hydropattern Restoration

- 2022 IDS Status: Active and authorized/design/construction
- Ongoing: Authorized under LRWRP in WRDA 2020

OPE: Lake Worth Lagoon Restoration

- 2022 IDS Status: Complete or Phase I Implemented (outside of CERP)

OPE: Winsberg Farms Wetlands Restoration

- 2022 IDS Status: Complete or Phase I Implemented (outside of CERP)



AREA 8 | WATER PRESERVE AREAS



Component M: Site 1 Impoundment with ASR (Phases)

- Divided into 2 sub-components
 - ✓ Seepage reduction
 - ✓ ASR and Site 1 Impoundment
- 2022 IDS Status: Complete or Phase I Implemented

Component O: Water Conservation Area 3A and 3B Levee Seepage Management

- 2022 IDS Status: Active and authorized/design/construction

Component Q: Western C-11 Diversion Impoundment and Diversion Canal

- Divided into 2 sub-components
 - ✓ Broward County Water Preserve Areas (BCWPA) & Mitigation Area Berm project
 - ✓ C-11 Impoundment
- 2022 IDS Status: Active and authorized/design/construction

Component R: C-9 Stormwater Treatment Area/Impoundment

- 2022 IDS Status: Active and authorized/design/construction

Component T: C-4 Structures

- 2022 IDS Status: Complete or Phase I Implemented



AREA 8 | WATER PRESERVE AREAS CONTINUED



Component CC: Broward County Secondary Canal System

- 2022 IDS Status: Pending
- Ongoing: Forthcoming planning/feasibility (Southern Everglades)

Component VV: Palm Beach County Agricultural Reserve Reservoir

- 2022 IDS Status: Pending

Component YY: Divert WCA2 flows to Central Lake Belt Storage

- 2022 IDS Status: Pending
- Ongoing: Forthcoming planning/feasibility (Southern Everglades)

Component AAA: Lower East Coast Water Conservation

- 2021 IDS Status: Complete or Phase I Implemented (outside of CERP)

OPE: Acme Basin B

- 2022 IDS Status: Complete or Phase I Implemented (outside of CERP)

OPE: Palm Beach County Wetlands-based Water Reclamation

- 2022 IDS Status: Deauthorized

OPE: Protect and Enhance Existing Wetlands Systems along Lox (Strazzulla Tract)

- 2022 IDS Status: Complete or Phase I Implemented



2024 IDS UPDATE



- Kicking off in June 2024
- Public Meetings/Listening Sessions in August – dates TBA
- Update status of 68 Components
- Draft IDS anticipated September
- Final anticipated October
- Information available at:
<https://www.saj.usace.army.mil/Missions/Environmental/Ecosystem-Restoration/Integrated-Delivery-Schedule/>

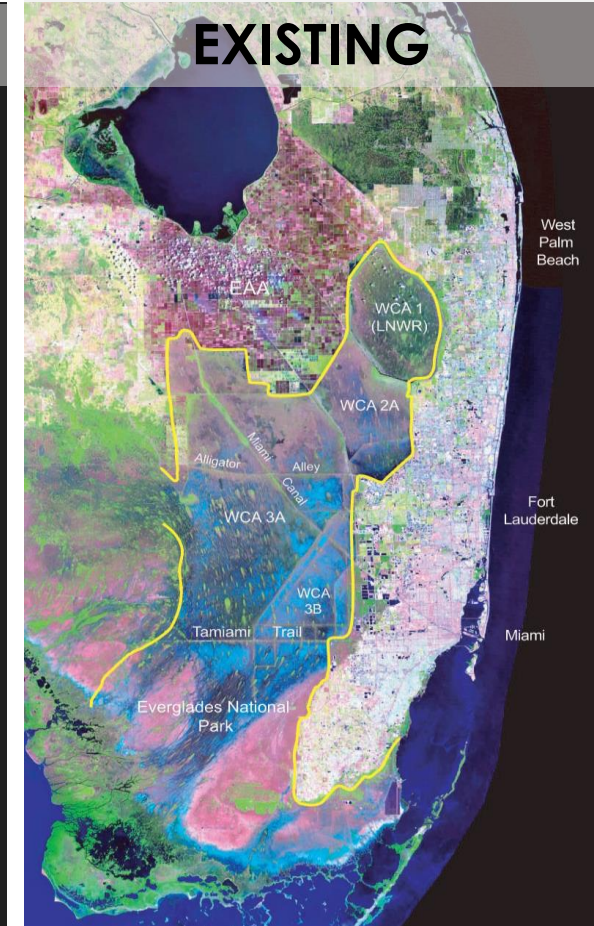
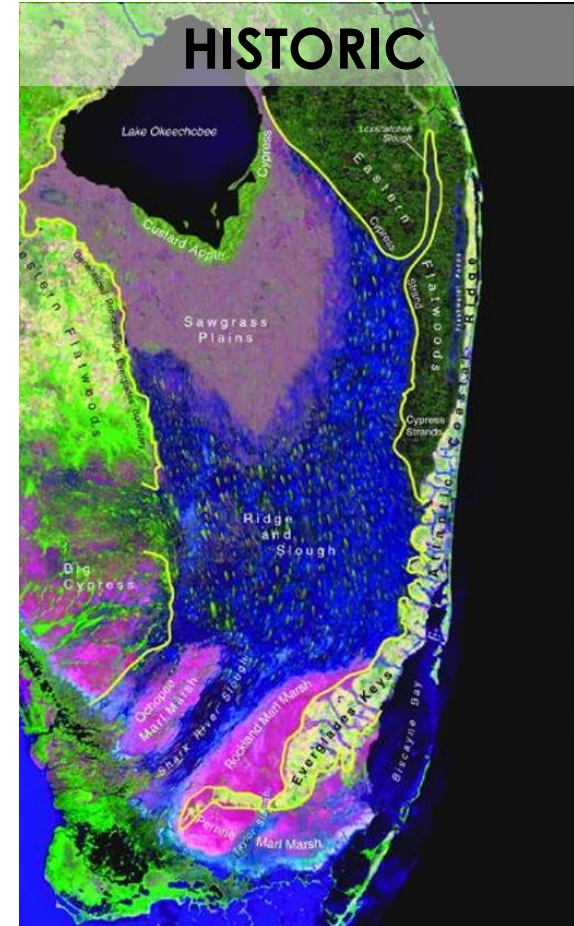


OTHER PROGRAM-LEVEL ACTIVITIES

Second Periodic CERP Update (SPCU)



- The SPCU is intended to
 - ✓ provide a basis for evaluating whether the goals and purposes of CERP are being achieved,
 - ✓ conduct an evaluation of the Plan using new or updated modeling that includes the latest scientific, technical, and planning information,
 - ✓ determine the total quantity of water that is expected to be generated by implementation of the Plan, including the quantity expected to be generated for the natural system to attain restoration goals as well as the quantity expected to be generated for use in the human environment
- SPCU evaluation is expected to be completed and summarized in the 2025 Report to Congress
- SPCU results will be presented through Task Force engagements





REFERENCES



South Florida Environmental Report (SFWMD)

- Every year
- Latest edition: 2023
- Website: [SFER 2023](#)

Integrated Delivery Schedule (USACE)

- Every year
- Latest edition: 2022
- Website: [IDS 2022](#)

Biennial Report (Task Force)

- Every two years
- Latest edition: July 2020 – June 2022
- Website: [Biennial Report](#)

Report to Congress (CERP: USACE/DOI)

- Every five years
- Latest edition: 2015 – 2020
- Website: [Report to Congress](#)



EVERGLADESRESTORATION.GOV
LEADERSHIP • PARTNERSHIP • RESULTS

<https://www.evergladesrestoration.gov/>



THANK YOU!