# **INTEGRATED DELIVERY SCHEDULE (IDS) UPDATE 2020 - TASK FORCE FINAL**

SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) | CENTRAL AND SOUTHERN FLORIDA (C&SF) COMPREHENSIVE EVERGLADES RESTORATION PLAN

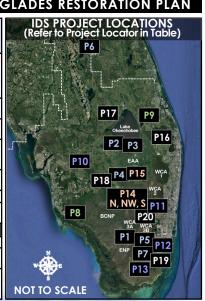
The Comprehensive Everglades Restoration Plan (CERP) is the largest aquatic ecosystem restoration effort in the nation, spanning over 18,000 square miles, and is designed to improve the health of more than 2.4 million acres. The Integrated Delivery Schedule (IDS) is a forward-looking snapshot of upcoming planning, design, and construction schedules and programmatic costs at a "top" line level for the South Florida Ecosystem Restoration (SFER) Program – including CERP, Modified Water Deliveries to Everglades National Park, the Critical Projects Program, Kissimmee River Restoration, and non-CERP Central and Southern Florida (C&SF) projects.

The IDS reflects the sequencing strategy for planning, design, and construction and does not include costs for work completed in other fiscal years or land acquisition. The IDS does not require an agency action and is not a decision document. It is a tool that provides information to decision-makers – a living document that is updated as needed to reflect progress and/or program changes. The IDS synchronizes program and project priorities with the State of Florida and achieves the CERP restoration objectives at the earliest practicable time, consistent with funding constraints and the interdependencies between project components.

Although non-CERP and Foundation projects upon which the CERP is dependent are reflected in the IDS schedule, they are not included in the funding scenario. These projects are funded through other program authorities or by other entities. Restoration projects by others are also not included but are considered during planning.

Note: The IDS serves the purpose of the Master Sequencing and Implementation Plan (MISP) described in the original CERP plan (Yellow Book). Funding shown for Fiscal Year 22 (Fiscal Year,

SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) INVESTMENT THROUGH FY2019 (Millions)										
		FEDERAL	NON- FEDERAL	CRAND						
	USACE	DOI	TOTAL	MULTIPLE AGENCIES	GRAND TOTAL					
Modified Water Deliveries to ENP	\$ 77.5	\$ 317.3	\$ 394.8	-	\$ 394.8					
Critical Projects	\$ 88.9	-	\$ 88.9	\$ 88.2	\$ 177.0					
Kissimmee River Restoration	\$ 388.3	-	\$ 388.3	\$ 202.2	\$ 590.5					
C&SF Non-CERP	\$ 771.8	\$ 51.8	\$ 823.6	\$ 215.6	\$ 1,039.2					
C&SF CERP	\$ 1,301.6	\$ 112.5	\$ 1,414.1	\$1,667.0	\$3,081.1					
C&SF CERP, to be credited	-	-	-	\$ 903.0	\$ 903.0					
TOTAL SFER	\$ 2,628.0	\$ 481.6	\$3,109.6	\$3,076.0	\$ 6,185.6					
Herbert Hoover Dike	\$ 1,499.5	-	\$ 1,499.5	\$ 100.0	\$ 1,599.5					
Restoration Strategies and ECP	-	-	-	\$2,038.4	\$ 2,038.4					



LEGEND		RP plan (Yellow Book). Funding shown for Fiscal Year 22 (Fiscal nd beyond is only notional, representing approximate funding stain the work displayed in the IDS for any particular fiscal yec commitment by the Administration to budget the amounts show	II	and ECP						-			LE		
□□□□●	Non-federal Federal Fiscal Closeout Monitoring	++ Does not reflect budgetary developm W Expected WRDA year • xxxx• Project Implementation Report • xxxx• Project Implementation Report with W		rs		000	_• Co ○ • Op	nstruction of		ed by av	vard of c	onstructi	n ion contro	act)	
	YELLOW BOOK COMPONENTS	PROJECT		AL YEAR	R/COST	S (DOLI	LARS IN	MILLIO	NS)¹						
Refer to	Refer to	Planning Estimates Federal Construction Cost (SFER)++	<b>2018 W</b>			<b>2021</b> \$ 250	2022 W	2023	2024 W	2025	2026 W	2027	2028 W	2029	203
Map on his Page	Map on Page 2	Planning Estimates Non-Federal Construction Cost (SFER)++	\$ 154		\$ 363	\$ 258	\$710	\$ 1,187	\$ 1,193	\$ 1,059	\$ 956	\$ 691	\$ 178	\$ 155	\$
ugo	. ago z	Planning Estimates Total Construction Cost (SFER)++ NON-CERP A	\$ 263 ND FOU				<u> </u>								
P1 P2	NON-CERP NON-CERP	Modified Water Deliveries to Everglades National Park <sup>2,3</sup> (complete) Herbert Hoover Dike <sup>2</sup>	-	•0000	00000										
P3	NON-CERP	Lake Okeechobee System Operating Manual <sup>2</sup>		•0000	00000	00000	00000								
P4 P5	NON-CERP NON-CERP	Restoration Strategies <sup>2</sup> Tamiami Trail Next Steps Phase 2 <sup>2</sup>		•							•◊◊◊◊•				
P6	NON-CERP	Kissimmee River Restoration (KRR) Construction / Post-Construction Monitoring					•ΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔΦ	•====				
	NON-CERP	KRR Monitoring/Development of Operational Transition Plan				• ΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔ•	•				
P7	NON-CERP NON-CERP	C-111 South Dade Construction <sup>3</sup> (complete) C-111 South Dade - S-332 B Pump Station Replacement		•xxxxx	•0000• xxxxxx•	•	00000	•—		•	•◊◊◊◊•				┢
	NON-CERP	C-111 South Dade - S-332 C Pump Station Replacement CERP GENERATION 1: AUTHORIZED (WRDA 200	7) AND	•xxxxx	XXXXXX		ACDE	O——	DDA) EV	ECUTE	•◊◊◊◊•				
P8	OPE	Picayune Strand Restoration	)/ AND	PROJEC	PAKII	NEKSHII	AGREE	MENT (	PPA) EX	•=====					
	OPE OPE	Faka Union Pump Station (complete) Miller Pump Station (complete)	00000●	000000	00000●										-
	OPE	Flood Protection Features - Conveyance		•				•	•◊◊◊◊•						
	OPE OPE	Flood Protection Features - Levee Road Removal		•		<b>—•</b>		•							
P9	OPE	Canal Plugging Indian River Lagoon-South				•	•——		•						
1 7	В	C-44 Reservoir	_		_	-	•◊◊◊◊•								
	B UU PHASE 1	C-44 STA and Pump Station C-23/24 Reservoir North	•			•◊◊◊◊◊	<b>○○○○○</b>							•◊◊◊◊•	
	UU PHASE 1	C-23/24 Reservoir South C-23/24 STA			•				•—		-0000-				H
	UU PHASE 1 UU PHASE 2	C-25 Reservoir			•		• · · · · ·		•—	•	•◊◊◊◊•	•	•◊◊◊◊•		
	UU PHASE 2	C-25 STA C-23/C-44 Interconnect			•				• • • • • • • • • • • • • • • • • • • •		····•—				H
		Natural Water Quality Storage Areas, Muck Removal and Artificial Habitat Creation (Phase 2) - PACR and PPA													
		CERP GENERATION 2: AUTHORIZED (WI	RDA 201	4) AND	PPA EX	CUTED	EXCEP	WHER	NOTE						
P10	D	Caloosahatchee River (C-43) West Basin Storage Pump Station and Reservoir						•	•◊◊◊◊◊	<b>◇◇◇◇◇</b>		•	00000		
P11	Q	Broward County Water Preserve Areas  Mitigation Area A Berm (complete)													
	Q	C-11 Impoundment		<u>-</u>								•	•◊◊◊◊◊	◊◊◊◊◊•	
	O R	WCA 3A and 3B Seepage Management C-9 Impoundment						•			•	•	•◊◊◊◊•	•—	
P12	FFF/OPE PHASE 1	Biscayne Bay Coastal Wetlands Phase 1 L-31 East Flow-way S-709 Pump Station (PS)	•					•◊◊◊◊•			•=====	00000			
		L-31 East Flow-way S-705 PS		•		•—		•	•◊◊◊◊•						
		L-31 East Flow-way S-703 PS, S-710 PS, S-711 PS, C-711W Seepage Canal Cutler Wetlands		•	•				• ◊◊	●◇◇◇◇◆					$\vdash$
P13	WW PHASE 1	C-111 Spreader Canal Western Project (Requires PPA - to be reconciled in parallel to BBSEER)							••	•ппппп	00000				
	FISCAL	YEAR REPEATED FOR VIEWING REFERENCE					2022 W			2025	2026 W			2029	
P14	AUTHORIZED (W	/RDA 2016); CERP EAA AUTHORIZED (WRDA 2018); CEPP SOU'  Central Everglades Planning Project (WRDA 2016)	H PPA E	KECUIEL	N 2020	); EAA P	PA ANII	CIPATE	) IN 202	I; CEPP	NORTH	PPA AN	IICIPATE	ED IN 202	1
P14S	QQ AA/FF/H/QQ	Decomp Physical Model (work under Master Design Agreement)  CEPP South				•••••									
F143	AA/FF/FI/QQ	Validation Report		•											
		Remove Old Tamiami Trail (ENP Prepared NEPA)			1		1		1			<del></del>	-		
		Structures S-631, S-632, S-633, gap in L-67C Levee S Spoil Removal		•	•		•◊◊◊◊•		•◊◊	≎≎≎≎ <b>∘</b>					-
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# SOUTH FLORIDA ECOSYSTEM RESTORATION AND 2020 TASK FORCE FINAL



# THE RESTORATION FRAMEWORK

#### **COMPONENTS AND PROJECTS**

The CERP identified 68 components that can contribute significantly to "getting the water right" and restoring 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

P2 P3

P18 P4 P15 WCA

## **OPERATIONS IN SYNC WITH PROJECT DELIVERY**

Restoration activities, including operational components recommended in the CERP, occur within the context of the larger, actively operated C&SF system. The current C&SF Project includes 1,000 miles of canals, 720 miles of levees, and several hundred water control structures providing services to south Florida such as water supply, flood protection, regional groundwater control, preservation of fish and wildlife, navigation, recreation, and prevention of saltwater intrusion.

# System Operating Manuals: The Critical Last Step In Getting the Water Right and Achieving Maximum System-wide Benefits

Operating Manuals are the set of documents that describe how to operate components of the C&SF Project and CERP projects to ensure that the goals and purposes of the projects are achieved. Operating Manuals for the CERP consist of a System Operating Manual (SOM) and Project Operating Manuals (POMs). Draft Project Operating Manuals (DPOMs) are initially developed during the planning phase of project delivery.

 The SOM consists of 7 Volumes, organized according to geographical regions, that collectively provide a system-wide framework for the operation of components of the C&SF Project and CERP projects to ensure that projects function in a coordinated, systematic way.

The CERP Programmatic Regulations require that POMs be updated, as appropriate, for project construction and operational testing and monitoring phases, as well as when relevant CERP and non-CERP components come online. In turn, SOM Volumes are updated to include new or updated POMs. This helps ensure that the goals and purposes of the CERP are achieved.



## The 2019 RECOVER System

Status Report provided a Report Card illustrating progress in achieving ecological goals in each RECOVER region, and on a system-wide basis.

Grading reflects the level of vulnerability to further degradation and the ability to provide ecosystem function:

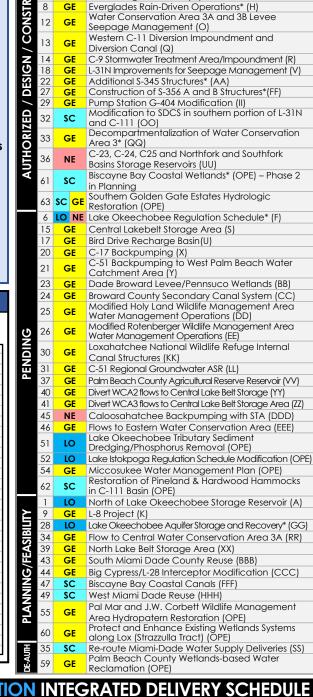
- 80-100 Very Good
- 60-80 Good
- 40-60 Fair20-40: Poor
- 0-20: Very Poor

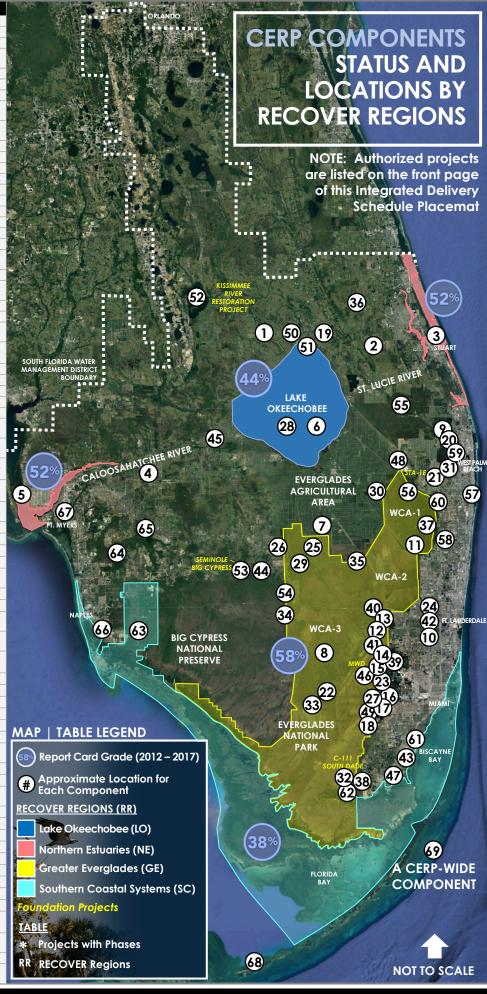
The system-wide grade for the 2012 - 2017 assessment period was 45%, or fair. For the Everglades, this is concerning because it means the ecosystem is struggling to support the plants and animals that live there and the natural services they provide to people.

However, many projects and operating manual updates are scheduled for the next ten years that will help improve these conditions.

#### Change Coastal Wellfield Operations (L Site 1 Impoundment with ASR\* (M) C-4 Structures (T) Taylor Creek/Nubbin Slough Storage and reatment Area\* (W) C-111 Spreader Canal\* (WW) - Phase 2 in Planning Lower East Coast Water Conservation (AAA) C-51\* and Southern L-8 Reservoir (GGG) Lake Okeechobee Watershed Water Quality reatment Facilities (OPE) Seminole Tribe Big Cypress Water Conservation Plan (East and West)\* (OPE) Acme Basin B (OPE) Lake Worth Lagoon Restoration (OPE Winsberg Farms Wetlands Restoration (OPE) Southern CREW Project Addition (OPE) Lake Trafford Restoration (OPE) Henderson Creek/Belle Meade Restoration (OPE Lake Park Restoration (OPE) Florida Keys Tidal Restoration (OPE Melaleuca Eradication and Other Exotic Plants (OPE) St. Lucie/C-44 Basin Storage Reservoir (B) Environmental Water Supply Deliveries to St. Lucie Estuary (C) Caloosahatchee Basin Storage Reservoir with ASR\* (D) Environmental Water Supply Deliveries to Caloosahatchee Estuary (E EAA Storage Reservoir (G) Everglades Rain-Driven Operations\* (H) Water Conservation Area 3A and 3B Levee Seepage Management (O) Western C-11 Diversion Impoundment and Diversion Canal (Q) C-9 Stormwater Treatment Area/Impoundment (R) L-31N Improvements for Seepage Management (V) Additional S-345 Structures\* (AA) Construction of S-356 A and B Structures\*(FF) Pump Station G-404 Modification (II) Modification to SDCS in southern portion of L-31N Decompartmentalization of Water Conservation Area 3\* (QQ) C-23, C-24, C25 and Northfork and Southfork Basins Storage Reservoirs (UU) Biscayne Bay Coastal Wetlands\* (OPE) - Phase 2 Southern Golden Gate Estates Hydrologic Restoration (OPE) LO NE Lake Okeechobee Regulation Schedule\* (F) Central Lakebelt Storage Area (S) Bird Drive Recharge Basin(U)

### P7 P19 improve these conditions. P13 For more information about grading and methodology, NOT TO SCALE visit: evergladesecohealth.org IDS CONSTRUCTION RELEVANT \* SCHEDULES FOR SOM VOLUME. WATER MANAGEMENT OPERATING CRITERIA (DPOM. POM. WCP). NEPA, AND MODELING Existing water control manuals (WCMs), water control plans (WCPs), and POMs will continue to govern operations until SOM Volumes are finalized. **SOM VOLUME 2: KISSIMMEE RIVER-LAKE ISTOKPOG**1.2 Lake Okeechobee Watershed Restoration Project DPOM (PT) <sup>1</sup> Kissimmee River Restoration WCP (Pa 1,2 Development of Operational Transition Plan (P6 SOM VOLUME 3: LAKE OKEECHOBEE - EAA <sup>2</sup> Lake Okeechobee - EAA WCP: LOSOM (P2; P3 <sup>1,2</sup> C-43 Reservoir POM (P10 IRL-South POM Update: C-44 Reservoir, STA (P9 1.2 CEPP and CERP EAA Reservoir DPOM: EAA Reservoir, A-2 STA (P15 CEPP and CERP EAA Reservoir DPOM Update: A-2 STA (P15) 12 CEPP and CERP EAA Reservoir DPOM Update: CEPP North, EAA Reservoir (P4; P14N; P15) 12 SOM VOLUME 4: WCAs-ENP-SDCS (COP-P1;P7 1.2 Western Everglades Restoration Project (P18) 1.2 CEPP and EAA Reservoir DPOM Update: CEPP South CNT1 Interim Operations (P14S) 1.2 CEPP and EAA Reservoir DPOM Update: TINS Phase 2, CEPP South (P5; P7; P14S; P14NW) SOM VOLUME 5: EAST COAST CANAL <sup>1</sup> IRL-South DPOM Update: C-23/C-24 Reservoirs, STA; C-25 Reservoir, STA (P9 <sup>1,2</sup> IRL South DPOM Update: C-23/C-44 Interconnect (P9 1,2 Loxahatchee River Watershed Restoration Project DPOM (P16 <sup>1</sup> Broward County WPA DPOM Update: C-111 Impoundment, WCA 3A & 3B SMA (P1 Broward County WPA DPOM Update: C-9 Impoundment (P1 <sup>1</sup> Biscayne Bay Coastal Wetlands POM Update: L-31E Flowway, Cutler Wetlands (P12 <sup>2</sup>Biscayne Bay Southeastern Everglades Ecosystem Restoration DPOM (P19 Updated NEPA with Public Engagement Anticipated **SOM VOLUME 7: SOUTHWEST FLORIDA**Picayune Strand Restoration Project POM Update: Miller Pump Station (P8 Updated Hydrologic Modeling Anticipated 1,2 Picayune Strand Restoration DPOM Update: Flood Protection Features, Canal Plugging (P8)





\*SOM Volume 1 (System-Wide Operational Framework for C&SF and CERP) and SOM Volume 6 (Upper St. Johns River Basin) will not have CERP POMs.