# INTEGRATED DELIVERY SCHEDULE (IDS) UPDATE 2020 WORKING DRAFT 091020

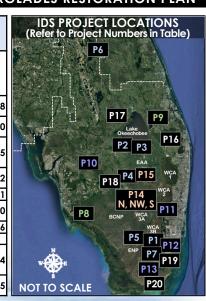
SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) | CENTRAL AND SOUTHERN FLORIDA (C&SF) COMPREHENSIVE EVERGLADES RESTORATION PLAN

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.

SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) INVESTMENT THROUGH FY2019 (Millions)								
		FEDERAL	NON- FEDERAL	CDANID				
	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	1	\$ 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			
Restoration Strategies and ECP	-	-	-	\$ 2,038.4	\$ 2,038.4			
Herbert Hoover Dike	\$ 1,499.5	-	\$ 1,499.5	\$ 100.0	\$ 1,599.5			



otional, re isplayed i	epresenting appro	ow Book. Funding shown for Fiscal Year 2022 and beyond is eximate funding levels that would be needed to sustain the particular fiscal year. The funding does not represent a commit	work a ment H	nd ECP erbert	\$ 1	,499.5		1 499 5	\$ 100.0	\$ 1,599.	5 NOT	TO SCA		P13 P20	
the Adm	ninistration to budg	get the amounts shown.	Щ	oover Dik	e   7 1	,477.5		, 1,477.5	\$ 100.0	\$ 1,577	NOI	TO SCA	LE		
GEND	Section 1997	Non	-federal		Fed	leral		and the contract of							
++ W	Does not reflect b	udgetary development dollars  ear  Design, PPA Exercises  Construction (	ecution,	Real Esta	ite Acqu	isition truction	contract)		ΔΔΔΔΦ	Fiscal Cl Monitori					
•XXXX•	Project Implemen	<del></del>	an	•					•	Require	s WCA-3		nd conve		litv
	YELLOW BOOK		J			<u>~</u>						720 0	Perunen		,
OCATOR	COMPONENTS	PROJECT	FISCAL YEAR /COSTS (DOLLARS IN 2018 W) 2019   2020 W   2021   2022 W							2025	2024 W	026 W   2027   2028 W   2029   203			
		Planning Estimates Federal Construction Cost (SFER)++	\$ 109			\$ 250		2023	2024 W	2025	2026 VV	2027	2026 W	2027	203
Refer to Map on	Refer to	Planning Estimates Non-Federal Construction Cost (SFER)++	\$ 154	\$ 293				\$ 1,187	\$ 1,193	\$ 1,059	\$ 956	\$ 691	\$ 178	\$ 155	\$
his Page	Map on Page 2	Planning Estimates Total Construction Cost (SFER)++		\$ 403											
		NON-CERP AN		DATIO	N PROJ										
P1 P2	NON-CERP	Modified Water Deliveries to Everglades National Park <sup>2,3</sup> (complete) Herbert Hoover Dike <sup>2</sup>		•0000	0000•		•								
P3 P4		Lake Okeechobee System Operating Manual <sup>2</sup> Restoration Strategies <sup>2</sup>		•0000	00000	00000	0000•								
P5	NON-CERP	Tamiami Trail Next Steps Phase 2 <sup>2</sup>		•						-	•◊◊◊◊•				
P6	NON-CERP	Kissimmee River Restoration (KRR) Construction / Post-Construction Monitoring				•	•ΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔΦ	•====				
P7	NON-CERP NON-CERP	KRR Monitoring/Development of Operational Transition Plan C-111 South Dade Construction <sup>3</sup> (complete)			•0000●	• <u></u> ΔΔΔΔ		ΔΛΔΛΔ	ΔΛΔΛΔ	ΔΔΔΔΔ•	•====				
17	NON-CERP	C-111 South Dade S-332 B Pump Station Replacement		•xxxxx	xxxxxx∙	•		•—		•	•◊◊◊◊•				
	NON-CERP	C-111 South Dade S-332 C Pump Station Replacement <sup>4</sup> CERP GENERATION 1: AUTHORIZED (WRDA 200	7) AND	PROJEC	XXXXXX•	NERSHIE	AGRE	MENT (	PPA) E>		• ◊ ◊ ◊ ◊ •				_
P8		Picayune Strand Restoration						<u> </u>		•	00000				
	OPE OPE	Faka Union Pump Station (complete) Miller Pump Station (complete)	◇◇◇◇	000000	◊◊◊◊◊•										
	OPE OPE	Flood Protection Features - Conveyance Flood Protection Features - Levee		•											
	OPE	Road Removal		•——											
P9	OPE	Canal Plugging Indian River Lagoon-South				••	•		•						
	B B	C-44 Reservoir C-44 STA and Pump Station				•◊◊◊◊◊	•◊◊◊◊• ◊◊◊◊◊•								
	UU PHASE 1	C-23/24 Reservoir North	•			•••••	••••						•	•◊◊◊◊•	
	UU PHASE 1 UU PHASE 1	C-23/24 Reservoir South C-23/24 STA			•						•◊◊◊◊•	<del></del>	<del></del>	<del></del>	H
	UU PHASE 2	C-25 Reservoir					•		•——			•	•◊◊◊◊•		
	UU PHASE 2	C-25 STA C-23/C-44 Interconnect			•				• ◊ ◊ ◊ ◊ •		•—				
P10		CERP GENERATION 2: AUTHORIZED (WR Caloosahatchee River (C-43) West Basin Storage	DA 2014	4) AND	PPA EX	ECUTED	EXCEP	T WHERI	NOTE	)		•	00000		
PIU	D	Pump Station and Reservoir						•	•◊◊◊◊◊	◊◊◊◊◊•					
P11	Q	Broward County Water Preserve Areas  Mitigation Area A Berm (complete)													
	Q	C-11 Impoundment										<b></b> •	+	◊◊◊◊◊•	
	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 Row-way S-703 PS, S-710 PS, S-711 PS, C-711W Seepage Canal Cutler Wetlands		•	•				• ◊◊						
P13		C-111 Spreader Canal Western Project /EAR REPEATED FOR VIEWING REFERENCE	2010 W	0010	2000 14	0001	2000 144	2002	2024W	2005	2027 14	2007	2000 W	2000	2020
CEPI		RDA 2016); CERP EAA AUTHORIZED (WRDA 2018); CEPP SOUT	H PPA EX	(ECUTED	IN 2020	); EAA P	PA ANT	CIPATE	IN 202	1; CEPP	NORTH	PPA AN	2028 W	D IN 20	<u> 2030</u>
P14		Central Everglades Planning Project (WRDA 2016)  Decomp Physical Model (work under Master Design Agreement)													
P14S	AA/FF/H/QQ	CEPP South													
		Validation Report Remove Old Tamiami Trail (ENP Prepared NEPA)		• • • • • • • • • • • • • • • • • • • •	•—		•◊◊◊◊•								
		Structures S-631, S-632, S-633, gap in L-67C Levee S Spoil Removal Increase S-356 Pump Station		•					•◊◊	◊◊◊◊◊•		•◊◊◊◊	00000		
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		Spillway S-355W			•			•—			VVVVV•				
		Structure S-333N Removal L-67C and L-67 Ext, Construct L-67D Levee	••	•——	•	<del>                                     </del>	-	•	•		~~~~				
		Structure S-333N Removal L-6/C and L-6/ Ext, Construct L-6/D Levee and gap in L-6/C Levee N	••	•——	•		-	•	•—•	•◊◊◊◊			00000	00000	
P14N		Structure S-333N  Removal L-6/C and L-6/ Ext, Construct L-6/D Levee and gap in L-67C Levee N  Removal L-29 Levee and Backfill L-67 Ext  CEPP North	••	•	•	•◊◊◊◊•	•	<u> </u>	•	• ◊ ◊ ◊ ◊ ◊ ◊ •				◊◊◊◊◊•	
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CERP COMPONENTS

**RECOVER REGIONS** 

(36)

STATUS AND

**NOTE: Authorized projects** 

are listed on the front page

of this Integrated Delivery

Schedule Placemat

**LOCATIONS BY** 

# THE RESTORATION FRAMEWORK

### COMPONENTS AND PROJECTS

he 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

P18 P4 P15

NOT TO SCAL

## **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 the project construction phase and the operational testing and monitoring phase, and as relevant CERP and non-CERP components come online. In turn, SOM Volumes are updated to include newly developed or updated POMs, and when necessary to ensure that collectively, the goals and purposes of the CERP are achieved.



2012 - 2017 **EVERGLADES REPORT CARD** 



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 Fair 20-40: Poor

provide to people.

0-20: Very Poor

The system-wide grade as of 2017 was 45%, or fair. For the

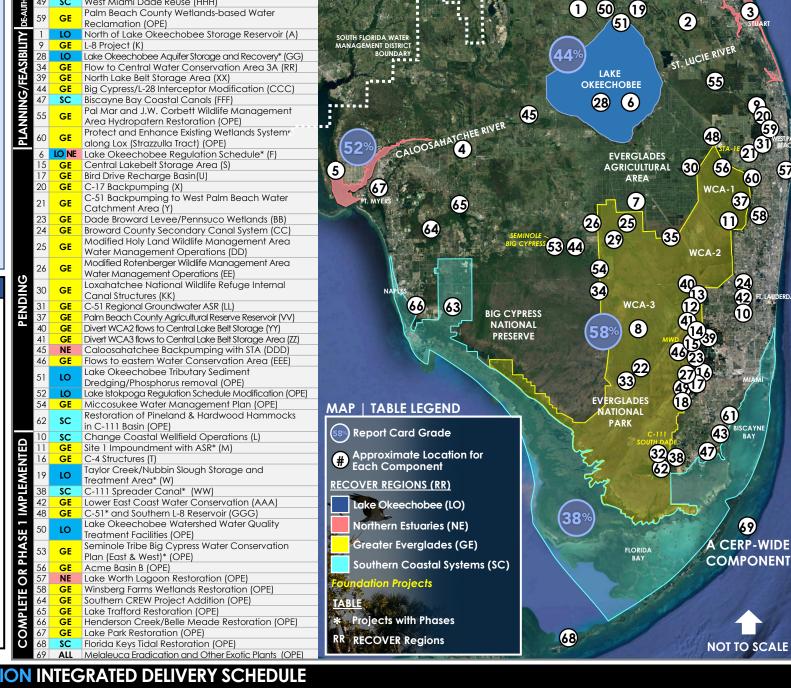
Everglades, this is concerning because it means the ecosystem is struggling to support the plants and animals that live there and the natural services they

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

For more information about grading and methodology, visit:evergladesecohealth.org

### 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 & B Structures\* Pump Station G-404 Modification (II) Modification to SDCS in southern portion of L-31N and C-111 (OO) Decompartmentalization of Water Conservation C-23, C-24, C25 and Northfork and Southfork Basins Storage Reservoirs (UU) Biscayne Bay Coastal Wetlands\* (OPE) Southern Golden Gate Estates Hydrologic Restoration (OPE) Re-route Miami-Dade Water Supply Deliveries (SS) South Miami Dade County Reuse (BBB) West Miami Dade Reuse (HHH) Palm Beach County Wetlands-based Water Reclamation (OPE) LO North of Lake Okeechobee Storage Reservoir (A) L-8 Project (K) Lake Okeechobee Aquifer Storage and Recovery\* (GG) Flow to Central Water Conservation Area 3A (RR) North Lake Belt Storage Area (XX) Bia Cypress/L-28 Interceptor Modification (CCC) Biscavne Bay Coastal Canals (FFF) Pal Mar and J.W. Corbett Wildlife Management Area Hydropatern Restoration (OPE) Protect and Enhance Existing Wetlands Systems along Lox (Strazzulla Tract) (OPE) Lake Okeechobee Regulation Schedule\* (F Central Lakebelt Storage Area (S) Bird Drive Recharge Basin(U) C-17 Backpumping (X) C-51 Backpumping to West Palm Beach Water Catchment Area (Y) Dade Broward Levee/Pennsuco Wetlands (BB Broward County Secondary Canal System (CC) Modified Holy Land Wildlife Management Area Water Management Operations (DD) Modified Rotenberger Wildlife Management Area Water Management Operations (EE) Loxahatchee National Wildlife Refuge Internal Canal Structures (KK) C-51 Regional Groundwater ASR (LL) Palm Beach County Agricultural Reserve Reservoir (VV) Divert WCA2 flows to Central Lake Belt Storage (YY) Divert WCA3 flows to Central Lake Belt Storage Area (ZZ) Caloosahatchee Backpumping with STA (DDD) Flows to eastern Water Conservation Area (EEE Lake Okeechobee Tributary Sediment Dredging/Phosphorus removal (OPE) Lake Istokpoga Regulation Schedule Modification (OPE) Miccosukee Water Management Plan (OPE) Restoration of Pineland & Hardwood Hammocks

### 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 ISTOKPOGA NOTES: The Water Control Plan is Chapter 7 within each SOM Volume. Consistent with CERP 1,2 Lake Okeechobee Watershed Restoration Project DPOM (P17 <sup>1</sup> Kissimmee River Restoration WCP (P6 Programmatic Guidance Memoranda #5, as new ojects are implemented, the POMs will be inserted into an appendix of the appropriate SOM Volume. 1 Update NEPA with Public Engagement Anticipated 2 Updated Hydrologic Modeling Anticipated **SOM VOLUME 3: LAKE OKEECHOBEE - EAA** 1,2 Lake Okeechobee - EAA WCP: LOSOM (P2; P3 1,2 C-43 Reservoir POM (P10 IRL-South POM Update: C-44 Reservoir, STA (PS 1.2 CEPP and CERP EAA Reservoir DPOM: EAA Reservoir, A-2 STA (P1. CEPP and CERP EAA Reservoir DPOM Update: A-2 STA (P1 <sup>1,2</sup>CEPP and CERP EAA Reservoir DPOM Update: CEPP North, EAA Reservoir (P4; P14N; P15 1.2 SOM VOLUME 4: WCAs-ENP-SDCS (COP-P1;P7 1,2 Western Everalades Restoration Project (P18 1.2 CEPP and EAA Reservoir DPOM Update: CEPP South CNT1 Interim Operations (P14 <sup>2</sup>CEPP and EAA Reservoir DPOM Update: TTNS 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 (P<sup>9</sup> 1-2 IRL South DPOM Update: C-23/C-44 Interconnect (P<sup>9</sup> 1.2 Loxahatchee River Watershed Restoration Project DPOM (P10 <sup>1</sup> Broward County WPA DPOM Update: C-111 Impoundment, WCA 3A & 3B SMA Broward County WPA DPOM Update: C-9 Impoundment Biscayne Bay Coastal Wetlands POM Update: L-31E Flowway, Cutler Wetlands 1.2Biscayne Bay Southeastern Everglades Ecosystem Restoration DPOM **SOM VOLUME 7: SOUTHWEST FLORIDA** Picayune Strand Restoration Project POM Update: Miller Pump Station (P8 <sup>2</sup> Picayune Strand Restoration DPOM Update: Flood Protection Features, Canal Plugging (P.



\*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.