### 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, October 1- September 30) and beyond is only notional, representing approximate funding levels that would be needed to sustain the work displayed in the IDS for any particular fiscal year. The funding does not represent a commitment by the Administration to budget the amounts shown.

SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) INVESTMENT THROUGH FY2019 (Millions)								
	FEDERAL			NON- FEDERAL	CDAND			
	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	8 \$ 51.8	\$ 823.6	\$ 215.6	\$ 1,039.2			
C&SF CERP	\$ 1,301.0	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	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			



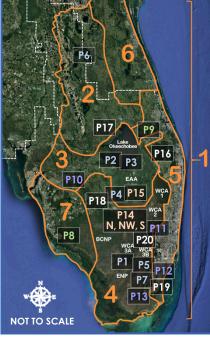
LEGEND	Non-federal	++ Does not reflect budgetary developme	nt dollar	s		•	••• De	sian. PP/	A Executi	on. Real	Estate A	cauisitio	n		
	Federal Fiscal Closeout	W Expected WRDA year •xxxx• Project Implementation Report		-		• <b></b>	<u></u> Co	onstructio perationo	on (Initiato 11 Plan	ed by av	vard of c	onstructi	on contro	act)	
-	Monitoring YELLOW BOOK	•xxxx• Project Implementation Report with Wa	iver			000	<u>≬∙</u> ]0p	perationa		ana moi	nitoring P	reriod			
LOCATOR	COMPONENTS	PROJECT					LARS IN 2022 W			2025	2026 W	2027	2028 W	2029	2030 W
Refer to Map on	Refer to Map on	Planning Estimates Federal Construction Cost (SFER)++ Planning Estimates Non-Federal Construction Cost (SFER)++	\$ 109 \$ 154	\$ 110	\$ 235 \$ 363	\$ 250	)	\$ 1,187							
this Page		Planning Estimates Total Construction Cost (SFER)++	\$ 263	\$ 403	\$ 598	\$ 508		φ1,107	φ1,175	φ1,007	\$750	ψυνι	φ170	φ 100	φ 100
P1		NON-CERP AN Modified Water Deliveries to Everglades National Park <sup>2,3</sup> (complete)		•0000	N PROJ										
P2 P3		Herbert Hoover Dike <sup>2</sup> Lake Okeechobee System Operating Manual <sup>2</sup>		•0000	00000	00000	•								
P4 P5	NON-CERP	Restoration Strategies <sup>2</sup> Tamiami Trail Next Steps Phase 2 <sup>2</sup>								•	•0000•				
P6		Kissimmee River Restoration (KRR) Construction / Post-Construction Monitoring					•	مممم	مممم	 	•====•				
	NON-CERP	KRR Monitoring/Development of Operational Transition Plan C-111 South Dade Construction <sup>3</sup> (complete)				•ΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔ		•				
P7	NON-CERP NON-CERP	C-111 South Dade - S-332 B Pump Station Replacement		•xxxxx	• · · · · • • • • • • • • • • • • • • •	•	<u> </u>	•		•	•0000•				
	NON-CERP	C-111 South Dade - S-332 C Pump Station Replacement CERP GENERATION 1: AUTHORIZED (WRDA 2007	/) AND	•XXXXX PROJEC	T PARTI	NERSHIF	P AGREE	MENT (	PPA) EX		•0000• D	I			L
P8	OPE OPE	Picayune Strand Restoration Faka Union Pump Station (complete)								•	●				
	OPE	Miller Pump Station (complete) Flood Protection Features - Conveyance	<b></b> •◊◊	000000	00000•										
	OPE OPE	Flood Protection Features - Levee		•	····•—			•	●◇◇◇◇●						
	OPE OPE	Road Removal Canal Plugging		•		••	•		•						
P9	В	Indian River Lagoon-South C-44 Reservoir				•	•0000•								
	B UU PHASE 1	C-44 STA and Pump Station C-23/24 Reservoir North			•	•00000	00000							•0000•	
	UU PHASE 1	C-23/24 Reservoir South C-23/24 STA			•·····				••••						
	UU PHASE 1 UU PHASE 2	C-25 Reservoir			•	•••••	•••••		•	•	• ◊ ◊ ◊ ◊ •	•	•0000•		
	UU PHASE 2	C-25 STA C-23/C-44 Interconnect			•			•	••••••	•••••	•••••				•
		Natural Water Quality Storage Areas, Muck Removal and Artificial Habitat Creation (Phase 2) - PACR and PPA				•									
P10		CERP GENERATION 2: AUTHORIZED (WRI Caloosahatchee River (C-43) West Basin Storage	DA 2014	4) AND	PPA EX	ECUTED	EXCEP	T WHERI	e notel	) 		•=====	• • • • • •		
P11	D	Pump Station and Reservoir Broward County Water Preserve Areas						•	•00000	00000•					
	Q	Mitigation Area A Berm (complete) C-11 Impoundment		<b>•</b>			<b>.</b>						•00000	◊◊◊◊◊●	
	0	WCA 3A and 3B Seepage Management						•			•	•	●◊◊◊◊●		
P12	R FFF/OPE PHASE 1	Biscayne Bay Coastal Wetlands Phase 1									•			•	
		L-31 East Flow-way S-709 Pump Station (PS) L-31 East Flow-way S-705 PS	•	•••••	····•—	•——	•	•	•0000•						
		L-31 East Row-way S-703 PS, S-710 PS, S-711 PS, C-711W Seepage Canal Cutler Wetlands		••••••		••••			<b></b> ●	●◊◊◊◊●					
P13	WW PHASE 1	C-111 Spreader Canal Western Project (Requires PPA - to be reconciled in parallel to BBSEER)							••	•=====					
СЕРР		(EAR REPEATED FOR VIEWING REFERENCE (RDA 2016); CERP EAA AUTHORIZED (WRDA 2018); CEPP SOUTH					2022 W								
P14		Central Everglades Planning Project (WRDA 2016)													
P14S	QQ AA/FF/H/QQ	Decomp Physical Model (work under Master Design Agreement) CEPP South				•••••									
		Validation Report Remove Old Tamiami Trail (ENP Prepared NEPA)		•····•	•——	•	•0000•								
		Structures S-631, S-632, S-633, gap in L-67C Levee S Spoil Removal Increase S-356 Pump Station		•	••				<b></b> ●◊◊	00000•	•	•00000	00000•		
		Spillway S-355W Structure S-333N			•	• • • • • • •		•••••		•	•00000	00000•			
		Removal L-67C and L-67 Ext, Construct L-67D Levee and gap in L-67C Levee N					•		•		L	•00000	00000		
P14N	QQ/II	Removal L-29 Levee and Backfill L-67 Ext						•••••		•		•		00000●	
F I 4IN	<u>vv/</u> II	Validation Report				•	•••••								
		L-4 Degrade and Pump Station S-630 S-8 Pump Station Modifications				•••••		•		•	• 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000• 00000•			
		L-6 Diversion Miami Canal Backfill/Tree Islands				•••••	•		•	•	• 00000	00000• •00000	00000•		
P14NW	V	L-5 Canal Improvements CEPP New Water					•••••		•——		•	•00000	00000•		
		Validation Report Seepage Barrier L-31N				•••••	•••••	•				• ◊ ◊ ◊ ◊ ◊	00000		
P15	G/V/C/E	CERP EAA (WRDA 2018)										•••••	~~~~		
		CERP EAA Follow Up Report (Section 1308b, WRDA18) EAA Reservoir - A-2 STA		•••••	•			•	•00000	00000•					
		EAA Reservoir - Canal Conveyance Improvements to North New River and Miami River Canals				•		•		00000					
		EAA Reservoir - Seepage Canal (8.2 miles) EAA Reservoir - Inflow/Outflow Canal and Gated Spillway			•••••	•	•	••	•00000	•••••	•00000	00000•			
		EAA Reservoir - Cutoff Wall, Outlet Work Structures, and Embankment <sup>4</sup>			•									00000•	
		EAA Reservoir - Inflow Pump Station 4 PLANNING PHASE	INITIAT	D AND	• /OR PR	OPOSEI	<b></b> D				<b>⊢</b> _•				
P16	K/OPE	Loxahatchee River Watershed Restoration Project (WRDA 2020 Authorization Anticipated; Construction and Funding TBD)	xxxxxx	xxxxxx	××××××							Once c constru project	authorized, action of cu s will incre	the design irrent plant ase annua	i and ning I
P17	A/GG		xxxxxx	xxxxxx	xxxxxx	xxxxx•						<sup>2</sup> Funde	tes and ext d through	other pro	nd 2030. ogram
P18	RR/CCC	Western Everglades Restoration Project (WRDA 2022 Authorization Anticipated; Construction and Funding TBD) Biscavne Bay Southeastern Everalades Ecosystem	xxxxxx	xxxxxx	xxxxxx	xxxxxx	*****						ities or by ical Opini letion satis		
P19	BBB/FFF/HHH/ WW/XX/OPE BB/CC/EEE/GG/	Restoration (BBSEER)			●XX	xxxxxx	XXXXXX	XXXXXX	xxxxxx•			<sup>4</sup> Require convey	es WCA-3 c	outlet and tures to me	
P20	BB/CC/EEE/GG/ QQ/S/U/YY/ZZ	Southern Everglades						•xxxxx	XXXXXX	XXXXXX	xxxxx		onal flexibi		

# SOUTH FLORIDA ECOSYSTEM RESTORATION AND GETTING THE WATER RIGHT – 2020 TASK FORCE









## 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).

### **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.



### 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
- 20-40: 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.

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

COMPLETE OR PHASE 1 IMPLEMENTER	11 16	SC	Change Coastal Wellfield Operations (L)	
E 1 IMPLEMENT		GE	Site 1 Impoundment with ASR* (M)	
E 1 IMPLEME		GE	C-4 Structures (T)	
E 1 IMPLEN	19	LO	Taylor Creek/Nubbin Slough Storage and	
E 1 IMPL	17	-	Treatment Area* (W)	1
E 1 IMP	38	SC	C-111 Spreader Canal* (WW) – Phase 2 in Planning	
	42	GE	Lower East Coast Water Conservation (AAA)	• •
Ľ	48	GE	C-51* and Southern L-8 Reservoir (GGG)	
	50		Lake Okeechobee Watershed Water Quality	비유는
110	50	LO	Treatment Facilities (OPE)	
Å	53	GE	Seminole Tribe Big Cypress Water Conservation	
E	55	91	Plan (East and West)* (OPE)	
	56	GE	Acme Basin B (OPE)	
18	57	NE	Lake Worth Lagoon Restoration (OPE)	
	58	GE	Winsberg Farms Wetlands Restoration (OPE)	
Ë	64	GE	Southern CREW Project Addition (OPE)	
-	65	GE	Lake Trafford Restoration (OPE)	
4	66	GE	Henderson Creek/Belle Meade Restoration (OPE)	200
$\geq$	67	GE	Lake Park Restoration (OPE)	100
IХ	68	SC	Florida Keys Tidal Restoration (OPE)	Call .
	69	ALL	Melaleuca Eradication and Other Exotic Plants (OPE)	
	2	NE	St. Lucie/C-44 Basin Storage Reservoir (B)	
			Environmental Water Supply Deliveries to	and
	3	NE	St. Lucie Estuary (C)	1
Z	4	NE	Caloosahatchee Basin Storage Reservoir with ASR* (D)	-
0			Environmental Water Supply Deliveries to	
E	5	NE	Caloosahatchee Estuary (E)	2
IЧ	7	GE	EAA Storage Reservoir (G)	20
Ř	8	GE	Everglades Rain-Driven Operations* (H)	14
S			Water Conservation Area 3A and 3B Levee	24
Z	12	GE	Seepage Management (O)	1
R			Western C-11 Diversion Impoundment and	105
Ň	13	GE	Diversion Canal (Q)	
/ DESIGN / CONSTRUCTION	14	GE	C-9 Stormwater Treatment Area/Impoundment (R)	
5	14	GE		
H۲ ۲	10		L-31N Improvements for Seepage Management (V)	1
Ш	22	GE	Additional S-345 Structures* (AA)	No-
Ρ	27	GE	Construction of S-356 A and B Structures*(FF)	-104
	29	GE	Pump Station G-404 Modification (II)	18
AUTHORIZED	32	SC	Modification to SDCS in southern portion of L-31N	
			and C-111 (OO)	
Ř	33	GE	Decompartmentalization of Water Conservation	. 1
<u>0</u>			Area 3* (QQ)	
E	36	NE	C-23, C-24, C25 and Northfork and Southfork	
Þ			Basins Storage Reservoirs (UU)	
∣⋖	61	sc	Biscayne Bay Coastal Wetlands* (OPE) – Phase 2	G
	01		in Planning	(5
	63	SC GE	Southern Golden Gate Estates Hydrologic	N.
			Restoration (OPE)	5
	6		• · · · · · · · · · · · · · · · · · · ·	
	15	GE	Central Lakebelt Storage Area (S)	~
	17	GE	Bird Drive Recharge Basin(U)	
	20	GE	C-17 Backpumping (X)	
	21	GE	C-51 Backpumping to West Palm Beach Water	
	21	GL	Catchment Area (Y)	
	23	GE	Dade Broward Levee/Pennsuco Wetlands (BB)	
	24	GE	Broward County Secondary Canal System (CC)	
	25	CE.	Modified Holy Land Wildlife Management Area	
	25	GE	Water Management Operations (DD)	
	26	GE	Modified Rotenberger Wildlife Management Area	
	20	GE	Water Management Operations (EE)	
Q	_			
<b>NIG</b>	20	CF	Loxahatchee National Wildlife Refuge Internal	
DIN	30	GE		
DIN	30 31	GE GE	Loxahatchee National Wildlife Refuge Internal	
PENDING			Loxahatchee National Wildlife Refuge Internal Canal Structures (KK)	
DIN	31	GE	Loxahatchee National Wildlife Refuge Internal Canal Structures (KK) C-51 Regional Groundwater ASR (LL)	
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# RR YELLOW BOOK NAME AND CODE

### IDS CONSTRUCTION RELEVANT \* SCHEDULES FOR SOM VOLUME. WATER MANAGEMENT OPERATING CRITERIA (DPOM, POM, WCP), NEPA, AND MODELING

isting water control manuals (WCMs), water control plans (WCPs), and DMs will continue to govern operations until SOM Volumes are finalized.	od AN
SOM VOLUME 2: KISSIMMEE RIVER-LAKE ISTOKPOGA <sup>1,2</sup> Lake Okeechobee Watershed Restoration Project DPOM (P17) <sup>1</sup> Kissimmee River Restoration WCP (P6) <sup>1,2</sup> Development of Operational Transition Plan (P6)	
SOM VOLUME 3: LAKE OKEECHOBEE - EAA <sup>1,2</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) <sup>1,2</sup> CEPP and CERP EAA Reservoir DPOM Update: C-44 Reservoir, A-2 STA (P15) CEPP and CERP EAA Reservoir DPOM Update: A-2 STA (P15) <sup>1,2</sup> CEPP and CERP EAA Reservoir (P4; P14N; P15)	
<sup>1,2</sup> SOM VOLUME 4: WCAs-ENP-SDCS (COP-P1;P7) <sup>1,2</sup> Western Everglades Restoration Project (P18) <sup>1,2</sup> CEPP and EAA Reservoir DPOM Update: CEPP South CNTI Interim Operations (P145) <sup>1,2</sup> CEPP and EAA Reservoir DPOM Update: TINS Phase 2, CEPP South (P5; P7; P14S; P14NW)	Image: sector of the sector
SOM VOLUME 5: EAST COAST CANALS <sup>1</sup> IRL-South DPOM Update: C-23/C-24 Reservoirs, STA; C-25 Reservoir, STA (P?) <sup>12</sup> IRL South DPOM Update: C-23/C-44 Interconnect (P?) <sup>12</sup> Loxahatchee River Watershed Restoration Project DPOM (P16) <sup>1</sup> Broward County WPA DPOM Update: C-111 Impoundment, WCA 3A & 3B SMA (P11) Broward County WPA DPOM Update: C-9 Impoundment (P11)	
<sup>1</sup> Biscayne Bay Coastal Wetlands POM Update: L-31E Flowway, Cutler Wetlands (P12) <sup>12</sup> Biscayne Bay Southeastern Everglades Ecosystem Restoration DPOM (P19) SOM VOLUME 7: SOUTHWEST FLORIDA Picayune Strand Restoration Project POM Update: Miller Pump Station (P8) <sup>12</sup> Picayune Strand Restoration DPOM Update: Flood Protection Features, Canal Plugging (P8)	FOOTNOTES: <sup>1</sup> Updated NEPA with Public Engagement Anticipated <sup>2</sup> Updated Hydrologic Modeling Anticipated

# SOUTH FLORIDA ECOSYSTEM RESTORATION INTEGRATED DELIVERY SCHEDULE

