INTEGRATED DELIVERY SCHEDULE 2021 UPDATE WO SOUTH FLORIDA ECOSYSTEM RESTORATION | CENTRAL AND SOUTHERN FLORIDA 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 limprove the health of more than snapshot of upcoming planning, design, and construction schedules and programmatic costs at a "fop" line level for the South Florida Ecosystem Restoration (SFER) Program – including CERP, Modified Water Deliveries to Everglades National Park, the Critical projects Program, Kissimmer 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 lool that provides information to decision-makers — a living document that is updated as needed to reflect progress and/or program charges. The system considers program and pages profit with the State of Florida program charges. The system 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, 23 (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.

Four projects successfully completed have been removed from the 2021 IDS: foundation project, Modified Water Deliverties to Everglades National Parity, CERP Piccayune Strand (Southern Golden Gale Islates) Falkar Union and Miller Pump Stifations, and CERP Broward County Water Preserve Areas Milligation Area A Berm.

++ Does not reflect budgetary development dollars or capability
W Expected WRDA year

SOUTH FLORIDA ECOSYSTEM RESTORATION (SFER) INVESTMENT THROUGH FY2020 (Millions) NON-FEDERAL FEDERAL MULTIPLE GRAND TOTAL USACE DOI TOTAL Modified Water Deliveries to ENP \$ 77.5 \$ 317.3 \$ 394. \$ 394.8 \$ 88.9 \$ 88.9 \$ 177.0 Critical Projects \$ 88.2 Kissimmee River Restoration \$ 402.5 \$ 402.5 \$ 799.0 \$ 396.5 ~ 2 C F \$ 773.7 \$ 51.8 \$ 825.5 \$ 225.1 \$ 1,050.5 C&SF Non-CERP C&SF CERP C&SF CERP \$1,492.9 \$ 112.5 \$1,605.4 \$1,820.5 \$ 3,425.9 \$ 963.9 \$ 963.9 \$3,,317.1 \$3,494.1 \$ 6,811.2 \$ 100.0 \$ 1,606.2 \$,506.2 \$ 1,506.2 \$ 2,041.6 \$ 2,041.6 ategies d ECP



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PROJECT LOCATOR	YELOW BOOK COMPONENTS	PROJECT			FIS	CAL YEAR	DESIGN	AND CO	NSTRUCTIO	N COSTS	(DOLLARS	N MILLION	NS) ²		
			2020 W	2021	2022 W	2023	2024 W	2025	2026 W	2027	2028 W	2029	2030 W	2031	2032W
		Planning Estimates Federal Construction Cost (SFER)++ Planning Estimates Non-Federal Construction Cost (SFER)++	\$ 235 \$ 363	\$ 250 \$ 258	\$ 350 \$ 329	\$ 828	\$814	\$ 964	\$1,275	\$ 983	\$ 731	\$ 468	\$ 256	\$ 154	\$ 88
		Planning Estimates Total Construction Cost (SFER)++	\$ 598	\$ 508	\$ 679	\$ 020	Ψ01-4	\$704	ψ 1,27 G	4,00	Ψ701	\$ 400	Ψ 200	¥ 104	400
P2			N-CERP A	ND FOUN	DATION					1					
P3		Herbert Hoover Dike (HHD)¹ Lake Okeechobee System Operating Manual (LOSOM)¹	00000	00000	00000										
P4		Restoration Strategies ¹	_		_		_	-•							
P5	N/A Non-CERP	Tamiami Trail Next Steps (TTNS) Phase 21 Kissimmee River Restoration (KRR) Construction			_	_								•0000•	
P6		KRR - Development of Operational Transition Plan/Evaluation Monitoring		•0000	00000	00000	00000	οο∙ΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔ	ΔΔΔΔΔΦ		
P7		C-111 South Dade Construction (complete) C-111 South Dade - S-332 B Pump Station Replacement	●○○○○● XXXXXXX●	•00000	000000					•0000•					
		C-111 South Dade - S-332 C Pump Station Replacement	xxxxxxx			•					-	●0000●			
	ODE	CERP GENERATION 1 (AUTHORIZED IN WRDA 2007; PROJECT PAR	NERSHIP .	AGREEME	NT - PPA I	XECUTED	PPA FOR	PHASE 2			ED IN 202	3)			
	OPE	Picayune Strand Restoration Flood Protection Features - Conveyance		 	 	-	•0000•		●00000	000000					
P8		Flood Protection Features - Levee			_	_	-•								
		Road removal Canal plugging	-		===										
		Indian River Lagoon-South (IRL-S)		,											
	В	C-44 Reservoir	_	_	•00000	00000•									
	B UU Phase 1	C-44 STA & Pump Station C-23/24 Reservoir North		•00000	00000•		_	 	Н	_			•0000•		
	UU Phase 1	C-23/24 Reservoir South	•										-	•0000•	
P9	UU Phase 1 UU Phase 2	C-23/24 STA C-25 Reservoir	•		•			_	•0000•			•0000•			
P10	UU Phase 2 UU Phase 2	C-25 Keservoir C-25 STA			•							•0000•			
		C-23/C-44 Interconnect	•				●0000●								
		Natural Water Quality Storage Areas, Muck Removal and Artificial Habitat Creation (Phase 2) - PACR and PPA (after execution, SFWMD leading		•		.									
		Design and Construction) CERP GENERATION 2 (AUTHORIZE	ED IN WRD	A 2014: P	PA EXECU	ITED EXC	PT WHERE	NOTED)							
		Caloosahatchee River (C-43) West Basin Storage								•00000	000000				
	D	Pump Station and Reservoir Broward County Water Preserve Areas (BCWPAs)	_	_	_	-	•00000	00000•							
011	Q	C-11 Impoundment				•		1—	1—	 	-	•00000	00000●		
P11	0	WCA 3A and 3B Seepage Management				•			•		•0000•				
	R FFF, OPE, Phase 1	C-9 Impoundment Biscavne Bay Coastal Wetlands (BBCW) Phase 1							•ппппп			•	_	_	
	TH, OFE TRACE	L-31 East Flow-way S-709 Pump Station (PS) and S-705 PS				•0000•			*65555	000000					
P12		L-31 East Flow-way S-703 PS			_		00000●								
		L-31 East Flow-way S-710 PS, S-711 PS, and C-711W Seepage Canal Cutler Wetlands	•			=	_	•0000•	00000						
P13	WW, Phase 1	C-111 Spreader Canal Western Project (Requires PPA; to be reconciled in parallel to BBSEER; SFWMD led Design and Construction)						•	•00000	000000					
PROJECT	VELOW BOOK	parallel to becauty of time loa beargit and construction)													_
LOCATOR	COMPONENTS	PROJECT	2020 W	2021	2022 W	2023	2024 W	2025	2026 W	2027	2028 W	2029	2030 W	2031	2032W
PROJECT LOCATOR	YELOW BOOK COMPONENTS CERP GET	PROJECT VERATION 3 (AUTHORIZED IN WRDAS 2016, 2018 AND 2020; CEPP SOUTH PPA		2021 D IN 2020	2022 W	2023 EXECUTI	2024 W D IN 2021	2025 ; CEPP NO	2026 W ORTH AND	2027 NEW WA	2028 W TER PPAS	2029 ANTICIPAT	2030 W TED IN 202	2031	2032W
LOCATOR P14	CERP GEN AA, FF, H, QQ P1, G	I LERATION 3 (AUTHORIZED IN WRDAS 2016, 2018 AND 2020; CEPP SOUTH PP/ Central Everglades Planning Project (CEPP)	EXECUTE	D IN 2020); EAA PPA										2032W
	CERP GEN AA, FF, H, QQ P1, G QQ	INTERATION 3 (AUTHORIZED IN WRDAS 2016, 2018 AND 2020; CEPP SOUTH PPA Central Everglades Planning Project (CEPP) Decomp Physical Model (work performed under Master Design Agreement)													2032W
	CERP GEN AA, FF, H, QQ P1, G	LERATION 3 (AUTHORIZED IN WRDAS 2016, 2018 AND 2020; CEPP SOUTH PP/ Central Everglades Planning Project (CEPP) Decomp Physical Model (work performed under Moster Design Agreement) CEPP South: Additional outlet structures needed to move more water south Volidation Report - 5152 and Bockfill Treatments	EXECUTE	D IN 2020	EAA PPA										2032W
	CERP GEN AA, FF, H, QQ P1, G QQ	LERATION 3 (AUTHORIZED IN WRDAS 2016, 2018 AND 2020; CEPP SOUTH PP/ Central Everglades Planning Project (CEPP) Decomp Physical Model (work performed under Moster Design Agreement) CEPP South: Additional outlet structures needed to move more water south Volidation Report - 5152 and Bockfill Treatments (Permanent) 5-152 and Esting Backfill Treatments (Permanent)	EXECUTE	D IN 2020	EAA PPA										2032W
	CERP GEN AA, FF, H, QQ P1, G QQ	LERATION 3 (AUTHORIZED IN WRDAS 2016, 2018 AND 2020; CEPP SOUTH PP/ Central Everglades Planning Project (CEPP) Decomp Physical Model (work performed under Moster Design Agreement) CEPP South: Additional outlet structures needed to move more water south Volidation Report - 5152 and Bockfill Treatments	EXECUTE	D IN 2020	EAA PPA										2032W
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P14	CERP GEN AA, FF, H, QQ P1, G QQ	LERATION 3 (AUTHORIZED IN WRDAS 2016, 2018 AND 2020; CEPP SOUTH PP/ Central Everglades Planning Project (CEPP) Decomp Physical Model (work performed under Master Design Agreement) CEPP South: Additional outlet structures needed to move more water south Validation Report - 5152 and Backfill Treatments S-152 and Evisting Backfill Treatments (Permanent) Remove Old Tamiomi Troil Structures S-431, S-432, S-433 and gap in L-67C Levee South Spoil Removal Increases S-356E Pump Station and S-334E Gated Spillway Demolition of existing S-356E Pump Station	•——	•		EXECUTI		; CEPP NO	DRTH AND	NEW WA	TER PPAS	ANTICIPAT			2032W
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SOUTH FLORIDA ECOSYSTEM RESTORATION AND GETTING THE WATER RIGHT - 2021 WORKING DRAFT Page 2 THE RESTORATION FRAMEWORK

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 C&SF Project includes 1,000+ miles of canals and levees and several hundred water control structures and pump stations providing the C&SF Congressionally authorized purposes of flood control, water supply, navigation, regional groundwater control, prevention of saltwater intrusion, recreation, and preservation of fish and wildlife.

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).



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 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.

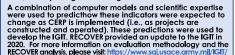
- The SOM consists of 7 Volumes, organized according to geographical regions, that collectively provide a system-wide framework for the operation of components of the C&SF Project and CERP projects to ensure that projects function in a coordinated, systematic way.
- Updates to Operating Manuals: The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

TRACKING RESTORATION SUCCESS

The concept of Interim Goals was introduced in the authorization of the CERP and was further developed into the Programmatic Regulations and defined as "a means by which the restoration success of the Plan may be evaluated throughout the implementation process." The regulations also required the development of Interim Targets for "evaluating the progress towards other water-related needs of the region provided for in the Plan..." (including water supply and flood protection).

Interim Goals and Targets (IGIT) provide a quantitative means of tracking performance made at specified intervals of time towards restoration of the South Florida system and for reporting progress of CERP to policy makers and the public. They also facilitate adaptive management of the system by linking science to decisionmaking if actual project performance towards meeting goals and targets is less than anticipated.

The IGIT involve the selection of indicators – key aspects of the natural, agricultural, and urbanized systems such as the ecosystem hydrology, salinity patterns, submerged aquatic vegetation, and aquatic fauna - that are monitored as CERP projects are constructed to assess progress towards the goals and purposes of CERP. The indicators selected for the IGIT represent the full range of expected changes – from upstream to downstream, from short-term to long-term, from hydrological to biological.



In addition, to access the Report Card from the 2019 RECOVER







System Status Report illustrating progress achieving ecological goals, please visit: https://evergladesecohealth.org/

TO A DIGITAL COP OF THE IDS Site 1 Impoundment with ASR* (M) C-4 Structures (T)
Taylor Creek/Nubbin Slough Storage and CERP COMPONENTS 10 Treatment Area* (W)
Modified Holy Land Wildlife Management Area STATUS AND GF Water Management Operations (DD) Modified Rotenberger Wildlife Managem Water Management Operations (EE) **LOCATIONS BY** C-111 Spreader Canal* (WW) - Phase 2 in Planning **RECOVER REGIONS** Lower East Coast Water Conservation (AAA) and Southern L-8 Reservoir (GGG) Lake Okeechobee Watershed Water Quality LO Treatment Facilities (OPE) NOTE: Authorized projects Acme Basin B (OPF) Lake Worth Lagoon Restoration* (OPE) are listed on the front page Winsberg Farms Wetlands Restoration (OPE)
Protect and Enhance Existing Wetlands Systems
along Lox (Strazzulla Tract) (OPE) of this Integrated Delivery GF Schedule Placemat 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) ALL St. Lucie/C-44 Basin Storage Reservoir (B) Environmental Water Supply Deliveries to NE 36 St. Lucie Estuary (C)
Caloosahatchee Basin Storage Reservoir with ASR* (D)
Environmental Water Supply Deliveries to **1 50 1**9 Caloosahatchee Estuary (E) 2 FAA Storage Reservoir (G) Everglades Rain-Driven Operations* (H) GE L-8 Project (K) Water Conservation Area 3A and 3B Levee Seepage Management (O) Western C-11 Diversion Impoundment and 55 GE Diversion Canal (Q) C-9 Stormwater Treatment Area/Impoundment (R) 28 6 L-31N Improvements for Seepage Management (V) Additional S-345 Structures* (AA) 45 Construction of \$-356 A and B Structures*(FF) Pump Station G-404 Modification (II)
Modification to SDCS in southern portion of L-31N
and C-111 (OO) sc 30 53 Decompartmentalization of Water Conservation AREA Area 3* (QQ) C-23, C-24, C25 and Northfork and Southfork 7 Basins Storage Reservoirs (UU) Pal Mar and J.W. Corbett Wildlife Managemen 1 25) Area Hydropattern Restoration (OPE) Biscayne Bay Coastal Wetlands* (OPE) - Phase 2 29 sc **53 44** in Planning Southern Golden Gate Estates Hydrologic Restoration (OPE) **54**) North of Lake Okeechobee Storage Reservoir (A) 34) Lake Okeechobee Aquifer Storage and Recovery* (GG) Flow to Central Water Conservation Area 3A (RR) 63 BIG CYPRESS North Lake Belt Storage Area (XX) GE 8 South Miami Dade County Reuse (BBB) Big Cypress/L-28 Interceptor Modification (CCC) SC Biscavne Bay Coastal Canals (EFE) 33 West Miami Dade Reuse (HHH) SC LO NE 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 MAP | TABLE LEGEND GF Catchment Area (Y) Dade Broward Levee/Pennsuco Wetlands (BB) Broward County Secondary Canal System (CC # Approximate Location for Each Component Loxahatchee National Wildlife Refuge Internal Canal Structures (KK) C-51 Regional Groundwater ASR (LL) RECOVER REGIONS (RR) Palm Beach County Agricultural Reserve Reservoir (VV) Lake Okeechobee (LO) Divert WCA2 flows to Central Lake Belt Storage (YY) Divert WCA3 flows to Central Lake Belt Storage Area (ZZ) 69 orthern Estuaries (NE) Caloosahatchee Backpumping with STA (DDD) Flows to Eastern Water Conservation Area (EEE) Lake Okeechobee Tributary Sediment CERP-WIDE Greater Everglades (GE) 10 COMPONENT Dredging/Phosphorus Removal (OPE) Lake Istokpoga Regulation Schedule Modification (OPE) Southern Coastal Systems (SC) Miccosukee Water Management Plan (OPE) Restoration of Pineland & Hardwood Hammocks SC in C-111 Basin (OPE)

Re-route Miami-Dade Water Supply Deliveries (SS) * Projects with Phases Seminole Tribe Big Cypress Water Conservatio Plan (East and West) (OPE) Palm Beach County Wetlands-based Water 68 RR RECOVER Regions NOT TO SCALE GF Reclamation (OPE)

SCAN THIS CODE

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



1.2 Kissimmee River Restoration WCP: Increment 1 Temporary Deviation (P6) 1.2 Development of Operational Transition Plan (P6)

SOM VOLUME 3: LAKE OKEECHOBEE - EAA

12 Lake Okeechobee - EAA WCP: LOSOM (P2; P3)

12C-43 West Basin Storage POM Update (P10)

12 RL-South POM Update: C-44 Reservoir, S1A (P9)

12 IRL-South POM Update: C-23(C-44 Interconnect: C-44 Reservoir, S1A (P15)

12 CEPP and EAA Phase DPOM: EAA Reservoir, A-2 S1A (P15)

2 CEPP EAA Phase DPOM Update: A-2 S1A (P15)

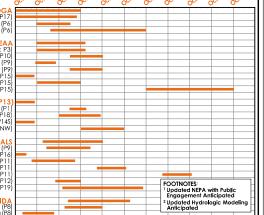
12 CEPP EAA Phase DPOM Update: A-2 S1A (P15)

12 SOM VOLUME 4: WCAs-ENP-SDCS (COP-P1;P7; P13)
 12 Combined Operational Plan WCP Update for 8.5 SMA [P1]
 13 Western Everglades Restoration Project DPOM. [P18]
 14 CEPP and EAA Phase DROW Update: CEPP South Contract1 Interim Operations [P145]
 14 CEPP DPOM Update: TINS Phase 2, CEPP South, CEPP North [P5; P145; P144; P144W)

SOM VOLUME 5: EAST COAST CANALS
1.2 IRL-South DPOM Update: C-23/C-24 Reservoirs, STA; C-25 Reservoir, STA (P9
1.2 Loxahatchee River Watershed Restoration Project DPOM (P16
2 Broward County WPA DPOM Update: C-11 Impoundment-[P17] Broward County WPA DPOM Update: WCA 3A and 38 Seepage Management [P11]
Broward County WPA DPOM Update: WCA 3A and 38 Seepage Management [P11]
Biscayne Bay Coastal Wetlands POM Update: L-31E Flow-way, Cutler Wetlands (P12)

12 Biscayne Bay Southeastern Everglades Ecosystem Restoration DPOM [P19]

SOM VOLUME 7: SOUTHWEST FLORIDA Picayune Strand Restoration Project POM Update: Miller Cand Plugging (P8) 12 Picayune Strand POM Update: Flood Protection Features, Faka Union Canal Flugging (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