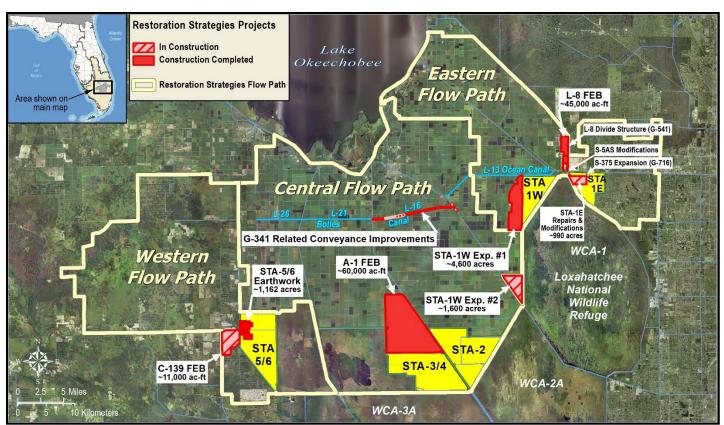
The South Florida Water Management District's (District) \$880 million Restoration Strategies Program will improve water quality flowing into America's Everglades by implementing a suite of flow equalization basins (FEB's), stormwater treatment area (STA) expansions, and conveyance improvement projects over a 13-year timeline. The program includes a robust Science Plan focused on investigating the critical factors that influence phosphorus reduction and a better understanding of improving treatment performance at low phosphorus concentrations. A third part of the program is investigation of additional sub-regional source controls – where pollution is reduced at the source – in areas where phosphorus levels in stormwater runoff have been historically higher.

In 2012, FDEP issued watershed National Pollutant Discharge Elimination System (NPDES) and Everglades Forever Act (EFA) permits to the District to continue to operate its STAs. At the same time, Consent Orders were issued with these permits that require the District to construct 13 projects on an aggressive timeline to be completed by December 2025 with specific milestone due dates for each project activity. The existing Everglades STAs, an essential component of Restoration Strategies, are unique constructed treatment wetlands designed to improve the quality of water flowing into the Everglades. Upon completion of all Restoration Strategies projects, the permits require each STA to meet the Water Quality Based Effluent Limit (WQBEL), to ensure that the State's water quality standard for the Everglades is achieved.

In addition to the Restoration Strategies projects, the District is enhancing the performance of the existing Everglades STAs through a series of construction projects to refurbish, rehabiliate, and renew large portions of the existing facilities, some of which have been in operation for the last 20 years.



Restoration Strategies Flow Paths and Projects

Eastern Flow Path

STA-1E Repairs and Modifications (Cells 5 and 7)

Earthwork to regrade Cell 5 to correct topographic deficiencies of the original construction is complete. Vegetation management planting activities are nearly complete. Cell 7 construction is complete and as-built surveys are ongoing. Vegetation management activities to start February 2022.

STA-1W Expansion #2

Construction of Civil Works and Inflow Pump Station is ongoing. Formwork and reinforcing steel installation for the lower walls and columns of G-780 and G-781 pump stations is ongoing. Sheet pile installation for G-782 pump station is complete. Blasting for Collection Canal is complete. Construction Status Milestone Compliance Report (MCR) to be submitted in February.

G-341 Related Conveyance Improvements

Construction of Segment 4 is complete and as-built surveys are being prepared. Segment 5 final design is complete and expected to be advertised in February 2022.

STA-1W Refurbishment

Earthwork for various enhancements is ongoing. Work includes 50-acre regrade in Cell 3 to remove finger canals, levee realignment between Cells 5B and 2A for improved flow patterns, removal of levees and structures between Cells 2B and 4, and replacement of structures between Cells 1B and 3. The 2B /4 levee removal is complete. The Cell 3 earthwork is complete; vegetation planting of the dewatering berm footprint is ongoing. The levee extension between 5B and 2A is nearly complete; removal of the east and south levees is ongoing. Substantial completion of all STA-1W refurbishments is expected in February 2022.

Central Flow Path

STA-2 Refurbishment

Earthwork to regrade uneven topography in the northern portion of Cell 2 is ongoing. The earthwork involves lowering an area in northeast Cell 2 and raising a 500-acre low-lying area in northwest Cell 2. The northeastern regrade area is complete. Earthwork to make 49 cuts through remnant farm berms in Cell 3 is complete.

Western Flow Path

STA-5/6 Internal Improvements

Cells 2A and 3A are currently in the initial flooding and optimization period.

C-139 Flow Equalization Basin (FEB)

Construction activity for the G-550 Inflow pump station and G-551 structures are ongoing. ERP Permits for G-552 and G-711E complete. Construction Status MCR to be submitted in February.

Connection of STA-5/6 to Lake Okeechobee

Phase 1 design will commence in February 2022 to improve conveyance, build a pump station, and rely on temporary facilities to connect the Miami Canal to the inflow of STA-5/6.

Restoration Strategies Science Plan

Of the fourteen Science Plan studies, eight have been completed and six are in progress. Six additional study proposals have been approved.

Ongoing Science Plan Studies Factors for Formation of Floating Tussocks in STAs L-8 FEB and STA Operational Guidance	Sept 2022 Sept 2022 Sept 2023 Sept 2023
Additional Studies	
Biomarker Study	Sept 2022
Fauna study	•
Ecotopes Study	•
P Dynamics Study	
Data Integration Study	
Marl Study	

District employee showing soil sample collected as part of the Phosphorus Dynamics Study.

EASTERN FLOW PATH						CENTRAL FLOW PATH		
STA-1W Expansion #2 (100864)			G-341 Related Conveyance Improvements (STA-2 Expansion: Compartment B				
Activity	Deadline		Activity	Deadline		Activity COMPLETE	Deadline	
Complete land acquisition	3/31/2018	✓	Initiate design	10/1/2020	✓	Initial flooding and optimization period complete	5/31/2014	✓
Initiate design	10/1/2018	1	Submit state and federal permit applications	8/1/2021	✓			•
Submit state and federal permit applications	8/1/2019	✓	Complete land acquisition (if required)	9/30/2021	✓	A-1 FEB (100706)		
Complete design	7/31/2020	✓	Complete design	7/31/2022		Activity	Deadline	
Initiate construction	11/30/2020	✓	Initiate construction	11/30/2022	✓	Initiate design	4/1/2012	1
Construction status report	3/1/2021	✓	Construction status report	3/1/2023	✓	Submit state and federal permit applications	12/1/2012	1
Construction status report	3/1/2022		Construction status report	3/1/2024		Design status report	3/1/2013	✓
Complete construction	12/31/2022		Complete construction	12/31/2024		Complete design	8/1/2013	✓
Initial flooding and optimization period complete	12/31/2024					Initiate construction COMPLETE	6/30/2014	✓
			L-8 Divide Structure (100817)			Construction status report	3/1/2015	✓
STA-1W Expansion #1 (100818)			Activity	Deadline		Construction status report	3/1/2016	✓
Activity	Deadline		Initiate design COMPLETE	10/1/2012	✓	Complete construction	7/30/2016	✓
Complete land acquisition	9/30/2013	✓	Complete design COIVIPLE IE	9/30/2014	✓	Operational monitoring and testing period complete	7/29/2018	1
Initiate design	9/30/2013	✓	Initiate construction	10/1/2016	✓			
Submit state and federal permit applications	7/30/2014	1	Complete construction	9/30/2018	✓	WESTERN FLOW PATH		
	7/30/2015	1	P COLOR	., ,		STA-5/6 Internal Improvements (100868		
Initiate construction COMPLETE	1/31/2016	✓	S-5AS Modifications (100822)			Activity	, Deadline	
Construction status report	3/1/2017	√	Activity	Deadline		Initiate design	10/31/2019	1
Construction status report	3/1/2017	√	Initiate design		✓	Submit state and federal permit applications	8/30/2020	,
Complete construction	12/31/2018	✓	Complete design COMPLETE	7 7	· •	Complete design	10/31/2021	1
Initial flooding and optimization period complete	12/31/2020	1	Initiate construction		·	Initiate construction	1/31/2022	1
initial moduling and optimization period complete	12/31/2020	•	Complete construction	, -, :	·	Construction status report	3/1/2023	1
STA-1E Repairs and Modifications			complete construction	3/30/2010	•	Construction status report 3/1/202		1
Activity	Deadline		S-375 Expansion (100819)			Complete construction	12/31/2024	1
PSTA Decommissioning complete	12/31/2022	1	Activity Deadline			Initial flooding and optimization period complete	12/31/2024	ľ
Culvert repairs complete	12/31/2022	1	luitiata danima		✓	initial flooding and optimization period complete	12/31/2023	•
Cell 5 and 7 improvements complete	12/31/2022	ľ	Complete design COMPLETE			STA-5/6 Expansion: Compartment C		
cen 5 and 7 improvements complete	12/31/2022		Initiate construction		· •	Activity COMPLETE	Deadline	
L-8 FEB (100813)			Complete construction		· •	Initial flooding and optimization period complete	5/31/2014	1
Activity	Deadline		complete construction	12/31/2010	•	mittal hooding and optimization period complete	3/31/2014	•
Submit state and federal permit applications	1/31/2014	1				C-139 FEB (100867)		
Construction status report	3/1/2014	1	LEGEND			Activity	Deadline	
Construction status report	3/1/2014	, ,	Flow Equalization Basin			Initiate design	10/31/2018	1
Complete construction (begin multi-purpose ops)	12/31/2016	,	Stormwater Treatment Area			Submit state and federal permit applications	8/30/2019	1
Long term operations commence	12/31/2022	ľ	Conveyance Improvement			Complete design	10/31/2020	
Long term operations commence	12/31/2022		✓ Complete			Initiate construction	1/31/2021	1
Dro	niects Complete -	7 of	12			Construction status report	3/1/2021	1
Projects Complete = 7 of 13 Activities Complete = 61 of 74				Construction status report	3/1/2021			
% Activities Complete = 82 %				Construction status report Construction status report	3/1/2022			
% Activities Complete = 32 % % Time Complete = 70 %				· ·	12/31/2023			
%	mile complete =	10%	•			Complete construction Operational monitoring and testing period complete	12/31/2023	
						Operational monitoring and testing period complete	12/31/2024	

Revised: January, 2022