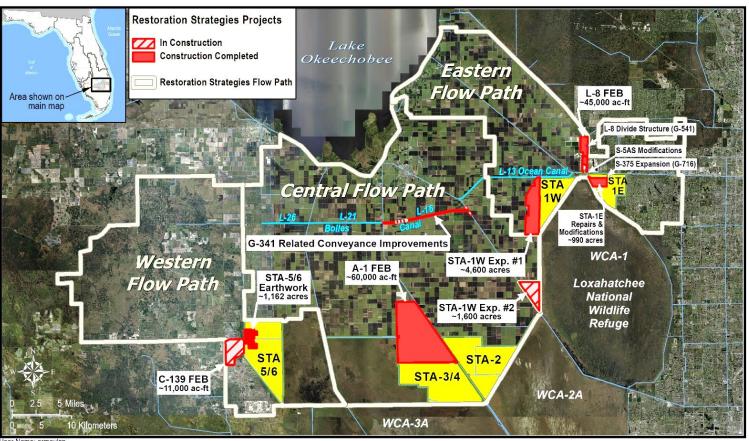
The South Florida Water Management District's (District) \$880 million Restoration Strategies Program is improving water quality flowing into America's Everglades by implementing a suite of flow equalization basins (FEB's), stormwater treatment area (STA) expansions, and conveyance improvement projects 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. To date, eight projects and 88% of all Consent Order activities have been completed with one additional project to be completed in 2022. 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 all five Everglades STAs through a series of construction projects to refurbish, rehabiliate, and renew large portions of the STAs, some of which have been in operation for the last 20 years. Refurbishments have been completed at STA-1E, STA-1W, and STA-3/4.



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Restoration Strategies Flow Paths and Projects

Eastern Flow Path

STA-1W Expansion #2

Construction of Civil Works and Inflow Pump Stations is ongoing. Formwork and reinforcing steel installation activities for G-780, G781 and G782 are ongoing.

G-341 Related Conveyance Improvements

Segment 5 construction is ongoing. Construction of Star Farms Bridge and Kennedy Bridge to commence in November 2022. Bridge subcontractor will initiate mobilization of equipment and materials by early October 2022. Estimated date for bridge construction completion by April, 2023.

STA-1W Refurbishment

All refurbishment construction is complete and as-built documents accepted. Vegetation management activities are ongoing in newly graded areas. Replacement of structures between Cells 1B and 3 will occur in 2023.

Central Flow Path

STA-2 Refurbishment

Earthwork to raise a 530-acre low-lying area in northwest Cell 2 to design elevation is ongoing, 480 acres have been raised, and approximately 50 acres remain.

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, G-551 outflow structure, and G711E divide structure are ongoing. ERP Permits for G-552 are complete. Levee and canal construction and land-levelling are ongoing.

Connection of STA-5/6 to Lake Okeechobee

Phase 1 design to improve conveyance, build a pump station, and rely on temporary facilities to connect the Miami Canal to the inflow of STA-5/6 is ongoing. Embankment/Canal Design analysis is ongoing.

Design of G-775 interim pump station is ongoing.

Restoration Strategies Science Plan

Nine Science Plan studies have been completed and twelve studies are ongoing.

Ongoing Science Plan Studies	Completion By
Soil Management Study	Sept 2022
Improving Resilience of Submerged Aquatic Vegetation in STAs	Sept 2022
Biomarker Study	Sept 2022
Ecotopes Study	Sept 2023
L-8 FEB and STA Operational Guidance	Sept 2023
P Dynamics Study	Sept 2023
Landscape Study	Sept 2023
Effects of Faunal Species on P Cycling in STAs	Sept 2023
Periphyton and Phytoplankton P Uptake and Release	Sept 2023
Advection Study	Sept 2024
Data Integration Study	Sept 2024
Marl Study	Sept 2024

PICTURE OF THE MONTH





RS Science Plan Landscape Study in STA-1W South Test Cell 13. This study evaluates the effect of vegetation resistance, flow velocity and water levels on mixing and P transport through wetlands.

EASTERN FLOW PATH						CENTRAL FLOW PATH		
STA-1W Expansion #2 (100864)			G-341 Related Conveyance Improvements (10	00802)		STA-2 Expansion: Compartment B		
ctivity	Deadline		Activity	Deadline		Activity COMPLETE	Deadline	
Complete land acquisition	3/31/2018	1	Initiate design	10/1/2020	1	Initial flooding and optimization period complete	5/31/2014	
nitiate design	10/1/2018	1	Submit state and federal permit applications	8/1/2021	1	and the grant part of the control part of the	-,-,-	
ubmit state and federal permit applications	8/1/2019	1	Complete land acquisition (if required)	9/30/2021	1	A-1 FEB (100706)		
omplete design	7/31/2020	1	Complete design	7/31/2022	1	Activity	Deadline	
nitiate construction	11/30/2020	1	Initiate construction	11/30/2022	1	Initiate design	4/1/2012	
Construction status report	3/1/2021	1	Construction status report	3/1/2023	1	Submit state and federal permit applications	12/1/2012	
Construction status report	3/1/2022	1	Construction status report	3/1/2024		Design status report	3/1/2013	
Complete construction	12/31/2022	Ė	Complete construction	12/31/2024		Consider decision	8/1/2013	
nitial flooding and optimization period complete	12/31/2024		complete construction	12/31/2024		Initiate construction COMPLETE	6/30/2014	
mula nooding and optimization period complete	12/31/2024		L-8 Divide Structure (100817)			Construction status report	3/1/2015	
STA-1W Expansion #1 (100818)			Activity	Deadline		Construction status report	3/1/2016	
ctivity	Deadline			10/1/2012	1	Complete construction	7/30/2016	
Complete land acquisition	9/30/2013	1	Initiate design Complete design Complete design	9/30/2014	1	Operational monitoring and testing period complete	7/30/2016	
nitiate design	9/30/2013	1	Initiate construction	10/1/2016	1	operational monitoring and testing period complete	1/23/2010	
		v			*	WESTERN FLOW PATH		
ubmit state and federal permit applications	7/30/2014		Complete construction	9/30/2018	•			
COMPLETE CONSTRUCTION	7/30/2015	✓.				STA-5/6 Internal Improvements (100868	•	
	1/31/2016	1	S-5AS Modifications (100822)			Activity	Deadline	
onstruction status report	3/1/2017	✓	Activity	Deadline		Initiate design	10/31/2019	
onstruction status report	3/1/2018	✓	Initiate design	10/1/2012	✓	Submit state and federal permit applications	8/30/2020	
omplete construction	12/31/2018	✓	Complete design COMPLETE	9/30/2014	✓	Complete design	10/31/2021	
nitial flooding and optimization period complete	12/31/2020	✓	Initiate construction	10/1/2014	✓	Initiate construction	1/31/2022	
		_	Complete construction	9/30/2016	✓	Construction status report	3/1/2023	
STA-1E Repairs and Modifications						Construction status report	3/1/2024	
ctivity COMPLETE	Deadline		S-375 Expansion (100819)			Complete construction	12/31/2024	
STA Decommissioning complete	12/31/2022	✓	Activity	Deadline		Initial flooding and optimization period complete	12/31/2025	
ulvert repairs complete	12/31/2022	✓	Initiate design	9/30/2013	1			
ell 5 and 7 improvements complete	12/31/2022	1	Complete design COMPLETE	7/30/2015	1	STA-5/6 Expansion: Compartment C		
			Initiate construction	1/31/2016	1	Activity COMPLETE	Deadline	
L-8 FEB (100813)			Complete construction	12/31/2018	1	Initial flooding and optimization period complete	5/31/2014	
ctivity	Deadline							
ubmit state and federal permit applications	1/31/2014	1				C-139 FEB (100867)		
onstruction status report	3/1/2014	1	LEGEND			Activity	Deadline	
onstruction status report	3/1/2015	1	Flow Equalization Basin			Initiate design	10/31/2018	
omplete construction (begin multi-purpose ops)	12/31/2016	1	Stormwater Treatment Area			Submit state and federal permit applications	8/30/2019	
ong term operations commence	12/31/2022		Conveyance Improvement			Complete design	10/31/2020	
V	-,, 		✓ Complete			Initiate construction	1/31/2021	
Pro	jects Complete =	8 of 1	13			Construction status report	3/1/2021	
Activities Complete = 565 of 74					Construction status report	3/1/2022		
	vities Complete =					Construction status report	3/1/2023	
	Time Complete =					Complete construction	12/31/2023	
70	complete -	, 4 /0				complete construction	12/31/2024	

Revised June 15, 2022