



# Restoration Strategies Program and Stormwater Treatment Area Enhancement Update February 2021

## Eastern Flow Path

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

Earthwork to regrade Cell 5 and importing of soil in Cell 7 to correct topographic deficiencies in the original construction are ongoing. Hydraulic dredge operations in the Western Distribution Cell are ongoing. Project is on schedule and expected to be completed by October 2022.

### **STA-1W Expansion #1**

Initial flooding and optimization period is complete. Earthwork to relocate plug in Expansion #1 Discharge Canal is complete.

### **STA-1W Expansion #2**

Notice to Proceed for civil works construction was issued in September 2020. Underground pipe Installation under STA-1W Expansion #1 Discharge Canal complete. Governing Board approval of pump station construction obtained in November. Notice to Proceed was issued in December 2020. Construction for civil works is ongoing.

### **G-341 Related Conveyance Improvements**

Construction of Segment 3 in Bolles East Canal is complete. Construction of Segment 4 is ongoing. Design of Segment 5 is ongoing and construction is expected to start in 2021.

### **STA-1E Refurbishment**

Earthwork to degrade remnant farm roads and fill ditches in Cell 6 is complete.

### **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.

## Central Flow Path

### **STA-2 Refurbishment**

Earthwork to regrade a 500-acre low-lying area, repair plugs in borrow canal, and other enhancements in Cell 2 is ongoing. Earthwork to make 49 cuts through remnant farm berms in Cell 3 is ongoing.

## Western Flow Path

### **STA-5/6 Internal Improvements**

Currently in initial flooding and optimization for Cells 2A and 3A.

### **C-139 Flow Equalization Basin (FEB)**

FDEP and USACE permits have been received. Governing Board approved the initiation of construction in December 2020. Notice to proceed is expected in February.

### **Connection of STA-5/6 to Lake Okeechobee**

Hydraulic Feasibility Study is nearly complete. Conceptual design and options are complete. Review of Technical Report is ongoing.

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## Restoration Strategies Science Plan

Of the fourteen Science Plan studies, seven have been completed and seven are in progress. Four additional study proposals have been approved and are ready to start.

<u>Ongoing Science Plan Studies</u>	<u>Completion By</u>
Vegetation Inundation Depth and Duration Sustainability .....	Sept 2021
Factors for Formation of Floating Tussocks in STAs .....	Sept 2021
L-8 FEB and STA Operational Guidance .....	Sept 2021
Improving Resilience of Submerged Aquatic Vegetation in STAs.....	Sept 2022
Effects of Faunal Species on P Cycling in STAs.....	Sept 2022
Periphyton and Phytoplankton P Uptake and Release.....	Sept 2023
Soil Amendments to Control P Flux .....	Sept 2023

  

<u>Additional Studies</u>	
Biomarker Study .....	Sept 2022
Fauna study.....	Sept 2023
Data Integration Study.....	Sept 2023
P Dynamics Study.....	Sept 2023



Aerial view of STA-1E Cell 6 refurbishments. Photo illustrates degrade of remnant farm berms using an amphibious excavator that digs up the berm material and drops it into the adjacent ditch as it advances backward (to the left).

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EASTERN FLOW PATH			CENTRAL FLOW PATH		
<b>STA-1W Expansion #2 (100864)</b>			<b>G-341 Related Conveyance Improvements (100802)</b>		
<b>Activity</b>	<b>Deadline</b>		<b>Activity</b>	<b>Deadline</b>	
Complete land acquisition	3/31/2018	✓	Initiate design	10/1/2020	✓
Initiate design	10/1/2018	✓	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	
Complete design	7/31/2020	✓	Complete design	7/31/2022	
Initiate construction	11/30/2020	✓	Initiate construction	11/30/2022	✓
Construction status report	3/1/2021		Construction status report	3/1/2023	
Construction status report	3/1/2022		Construction status report	3/1/2024	
Complete construction	12/31/2022		Complete construction	12/31/2024	
Initial flooding and optimization period complete	12/31/2024				
<b>STA-1W Expansion #1 (100818)</b>			<b>L-8 Divide Structure (100817)</b>		
<b>Activity</b>	<b>Deadline</b>		<b>Activity</b>	<b>Deadline</b>	
Complete land acquisition	9/30/2013	✓	Initiate design	10/1/2012	✓
Initiate design	9/30/2013	✓	Complete design	9/30/2014	✓
Submit state and federal permit applications	7/30/2014	✓	Initiate construction	10/1/2016	✓
Complete design	7/30/2015	✓	Complete construction	9/30/2018	✓
Initiate construction	1/31/2016	✓			
Construction status report	3/1/2017	✓	<b>S-5AS Modifications (100822)</b>		
Construction status report	3/1/2018	✓	<b>Activity</b>	<b>Deadline</b>	
Complete construction	12/31/2018	✓	Initiate design	10/1/2012	✓
Initial flooding and optimization period complete	12/31/2020	✓	Complete design	9/30/2014	✓
			Initiate construction	10/1/2014	✓
			Complete construction	9/30/2016	✓
<b>STA-1E Repairs and Modifications</b>			<b>S-375 Expansion (100819)</b>		
<b>Activity</b>	<b>Deadline</b>		<b>Activity</b>	<b>Deadline</b>	
PSTA Decommissioning complete	12/31/2022	✓	Initiate design	9/30/2013	✓
Culvert repairs complete	12/31/2022	✓	Complete design	7/30/2015	✓
Cell 5 and 7 improvements complete	12/31/2022		Initiate construction	1/31/2016	✓
			Complete construction	12/31/2018	✓
<b>L-8 FEB (100813)</b>			<b>C-139 FEB (100867)</b>		
<b>Activity</b>	<b>Deadline</b>		<b>Activity</b>	<b>Deadline</b>	
Submit state and federal permit applications	1/31/2014	✓	Initiate design	10/31/2018	✓
Construction status report	3/1/2014	✓	Submit state and federal permit applications	8/30/2019	✓
Construction status report	3/1/2015	✓	Complete design	10/31/2020	✓
Complete construction (begin multi-purpose ops)	12/31/2016	✓	Initiate construction	1/31/2021	✓
Long term operations commence	12/31/2022		Construction status report	3/1/2021	
			Construction status report	3/1/2022	
			Construction status report	3/1/2023	
			Complete construction	12/31/2023	
			Operational monitoring and testing period complete	12/31/2024	
<b>STA-2 Expansion: Compartment B</b>			<b>STA-5/6 Internal Improvements (100868)</b>		
<b>Activity</b>	<b>Deadline</b>		<b>Activity</b>	<b>Deadline</b>	
Initial flooding and optimization period complete	5/31/2014	✓	Initiate design	10/31/2019	✓
			Submit state and federal permit applications	8/30/2020	✓
<b>A-1 FEB (100706)</b>			<b>STA-5/6 Expansion: Compartment C</b>		
<b>Activity</b>	<b>Deadline</b>		<b>Activity</b>	<b>Deadline</b>	
Initiate design	4/1/2012	✓	Initial flooding and optimization period complete	5/31/2014	✓
Submit state and federal permit applications	12/1/2012	✓			
Design status report	3/1/2013	✓	<b>WESTERN FLOW PATH</b>		
Complete design	8/1/2013	✓	<b>STA-5/6 Internal Improvements (100868)</b>		
Initiate construction	6/30/2014	✓	<b>Activity</b>	<b>Deadline</b>	
Construction status report	3/1/2015	✓	Initiate design	10/31/2019	✓
Construction status report	3/1/2016	✓	Submit state and federal permit applications	8/30/2020	✓
Complete construction	7/30/2016	✓	Complete design	10/31/2021	✓
Operational monitoring and testing period complete	7/29/2018	✓	Initiate construction	1/31/2022	✓
			Construction status report	3/1/2023	✓
			Construction status report	3/1/2024	✓
			Complete construction	12/31/2024	✓
			Initial flooding and optimization period complete	12/31/2025	

**Projects Complete = 7 of 13**  
**Activities Complete = 57 of 74**  
**% Activities Complete = 77 %**  
**% Time Complete = 63 %**

**LEGEND**

- Flow Equalization Basin
- Stormwater Treatment Area
- Conveyance Improvement
- ✓ Complete