# S333 Working Group Update

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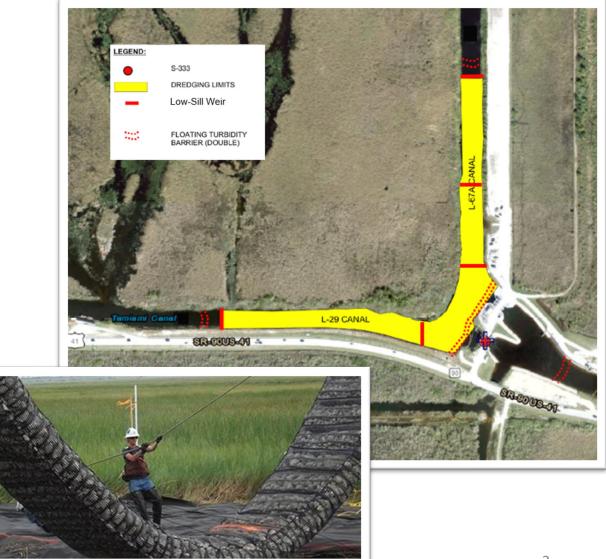
Technical Oversight Committee Meeting December 3, 2024

#### **S333 Working Group Members**

South Florida Water Management District Everglades National Park United States Army Corps of Engineers Florida Department of Environmental Protection Arthur R. Marshall Loxahatchee National Wildlife Refuge

# S333 Working Group Recommendations

- Maintenance Dredging Task 1
  - 1,500 feet upstream of S333 complex in the L-67A and L-29 Canal
  - S333 Complex intake bay
  - 2 Short-height low-sill weirs
- Low-Sill Weirs Task 2
  - Conceptualized locations shown in figure
  - Constructed to finished elevation
- Monitoring and Assessment Plan Task 3
  - Evaluate the effectiveness
  - Identify optimization opportunities
  - Inform future actions



# **Highlights on Progress**

#### ✓ Preliminary Survey Complete

• 34,000 CY of sediments to be dredged. Over 3x the amount identified in 2022 sediment study.

#### ✓ Geotechnical Investigation and Final Survey Complete

• Confirmed 48,000 CY of sediments to be dredged. Over 4x the amount identified in 2022 sediment study.

#### ✓ Site Alternatives Evaluation Complete

• Limited sites available for the Dredged Material Management Area (DMMA)

#### ✓ Revised Permit Applications with Intermediate Project Design and Specifications Complete

• Project required re-design due to the increase in sediments and DMMA site constraints

#### ✓ Final Project Design and Specifications Underway to Support Final Permits

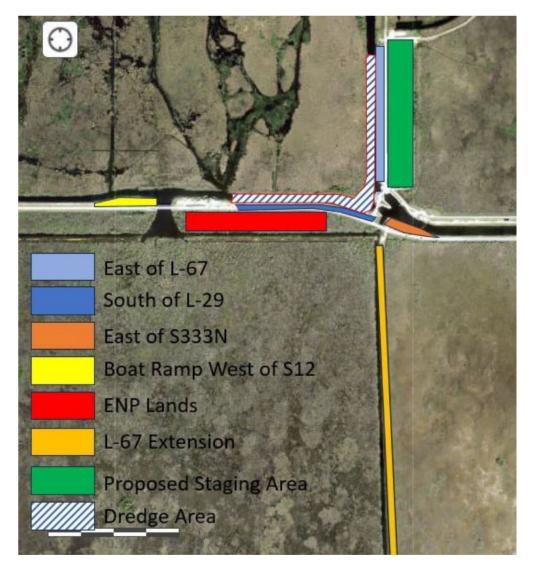
#### ✓ Low-Sill Weir Round 1 Modeling Complete & Round 2 Underway

- 3D modeling confirmed depositional velocities
- Confirmed no adverse flood control operations and navigational impacts
- Update modeling based on geotechnical and final survey results

#### ✓ Monitoring and Assessment Plan Complete

## **DMMA Site Alternatives Evaluation**

- East of L-67: Currently occupied by USACE Contract 1A(R)
- South of L-29: Will continue to be utilized for vehicular transit (Narrow, Insufficient Size for DMMA)
- East of S333N: 0.75 Acres (Narrow, Insufficient Size for DMMA)
- Boat Ramp: 1.2 Acres (Narrow, Insufficient Size for DMMA)
- ENP: 8+/- Acres (Not Owned by SFWMD)
- L-67 Extension: (Narrow, Insufficient Size for DMMA, Not Owned by SFWMD)
- Proposed Site: 6.89 Acres



### Timeline – Task 1 Maintenance Dredging

Nov 2023	Jan 2024	Mar 2024	Apr – June 2024	July – Sept 2024	Oct 2024	Nov – Dec 2024
<ul> <li>Principals' Concurrence</li> <li>Project Design and Preliminary Survey Commenced</li> </ul>	<ul> <li>FDEP ERP Permit Exemption Application</li> <li>Legal Challenge to State 404 Permit Program</li> </ul>	<ul> <li>USACE Section 404 Permit Application</li> <li>FDEP ERP Permit Exemption Approved</li> <li>Preliminary Survey Complete</li> </ul>	<ul> <li>Preliminary Survey Data Review</li> <li>Site Alternatives Evaluation</li> <li>Determined Re- design is Required</li> <li>Initiated Re-design</li> </ul>	<ul> <li>Re-design Discussions with USACE and FDEP</li> <li>Development of Intermediate Plans and Specifications</li> <li>Determination that FDEP ERP Required</li> </ul>	<ul> <li>FDEP ERP Permit Application</li> <li>USACE Revised Section 404 Permit Application</li> <li>USACE Section 408 Review Requested</li> <li>Geotechnical Complete</li> </ul>	<ul> <li>Adjusted schedule complete</li> <li>FDEP ERP Permit App Updated due to Geotechnical Results</li> <li>USACE Section 404 Permit App Updated due to Geotechnical Results</li> <li>USACE Section 408 Review Request Updated due to</li> </ul>

Notes: Section 404 Permit – Wetland Modifications Section 408 Review – Modifications to CS&F Projects Geotechnical Results

### **Re-Design Adjusted Schedule**

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			2024							-	2025 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec									2026													
			Jan F	Feb Ma	r Apr	May	Jun	Jul	Aug S	ep O	ct Nov	/ Dec	Jan	Feb Ma	r Apr M	ay Ju	n Jul	Aug	Sep	Oct N	lov De	c Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maintenance Task 1 Task 1 Height Low Sill Weirs	Preliminary Survey (COMPLETE)																																
	Final Permits <sup>(1)</sup>											I																					
	Geotechnical Investigations and Final Survey																																
	Final Project Design and Specifications						_																										
	Solicitation																																
	Contract Execution																																
	Construction <sup>(2)</sup>																																
	H&H Design Modeling - Round 1 (COMPLETE)																																
	H&H Design Modeling - Round 2																																
	Final Project Design and Specifications											1																					
Task 2		Final Permits																															
	Height)	Solicitation (5 Weirs) <sup>(3)</sup>														Т																	
	Contract Execution (5 Weirs) <sup>(3)</sup>																									1	7						
		Construction (5 Weirs) <sup>(2)(3)</sup>																				T	T										
		Draft Monitoring and Assessment Plan (COMPLETE)																															
Task 3 Monitoring and Assessment Plan	Final Monitoring and Assessment Plan (COMPLETE)					-																											
	FDEP Grant Agreement																																
	Contractual SOW Development																																
	FDEP Grant Funding Available																																
	Contract Execution																																
		Implement Monitoring and Assessment Plan																						1									

<sup>(1)</sup> Permit exemption no longer applicable. Project re-design triggered a new FDEP permit and a revised USACE permit application.

(2) The duration for task 1 construction is contingent upon weather and flood control operations. Opportunities to begin task 2 sooner and concurrent with task 1 will be explored during task 2 design.

(3) Includes raising the two "Short-Height" weirs in Task 1 to the final weir heights based on Round 2 H&H Modeling results and installing three additional low-sill weirs.

Original Schedule

Adjusted Schedule

\*\*\*Schedule contingent upon expedited permitting and conducive construction conditions\*\*\*