WRAC Issues Workshop

C-111 Spreader Canal Project Implementation Report
Draft Operating Plan
October 21, 2008

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Presentation Contents

- Project Implementation Report (PIR) and Draft Operating Plan Overview
- Adaptive incremental operating changes to enhance benefits
- Protection measures

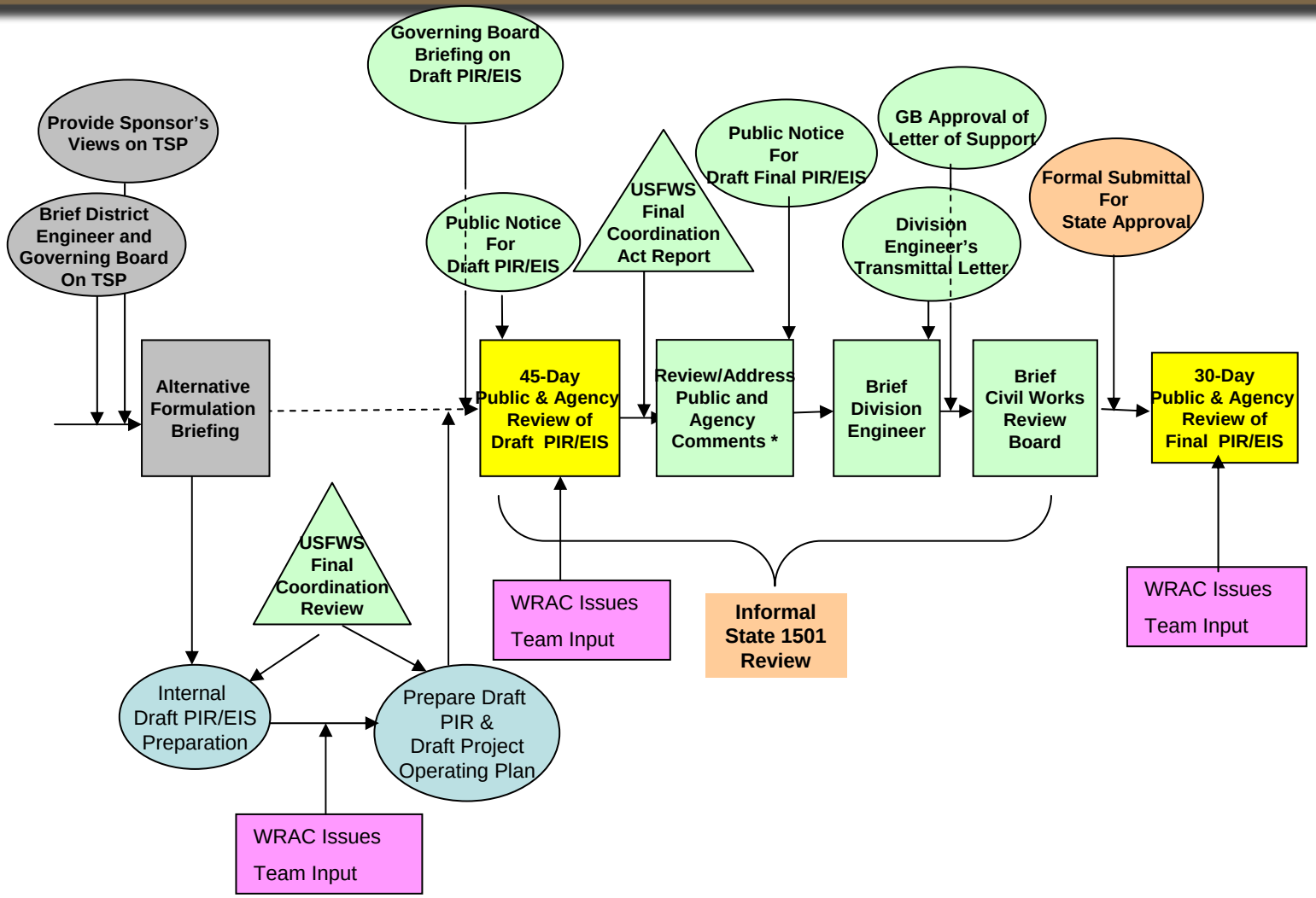
PIR and Expedited Construction Planning

- PIR provides a dual purpose
  - Supports Federal decision to request Congressional approval for funding and construction
  - Provides required information for a 404 Permit for expedited construction (start October, 2009)
- Provides an assessment of the range of operations

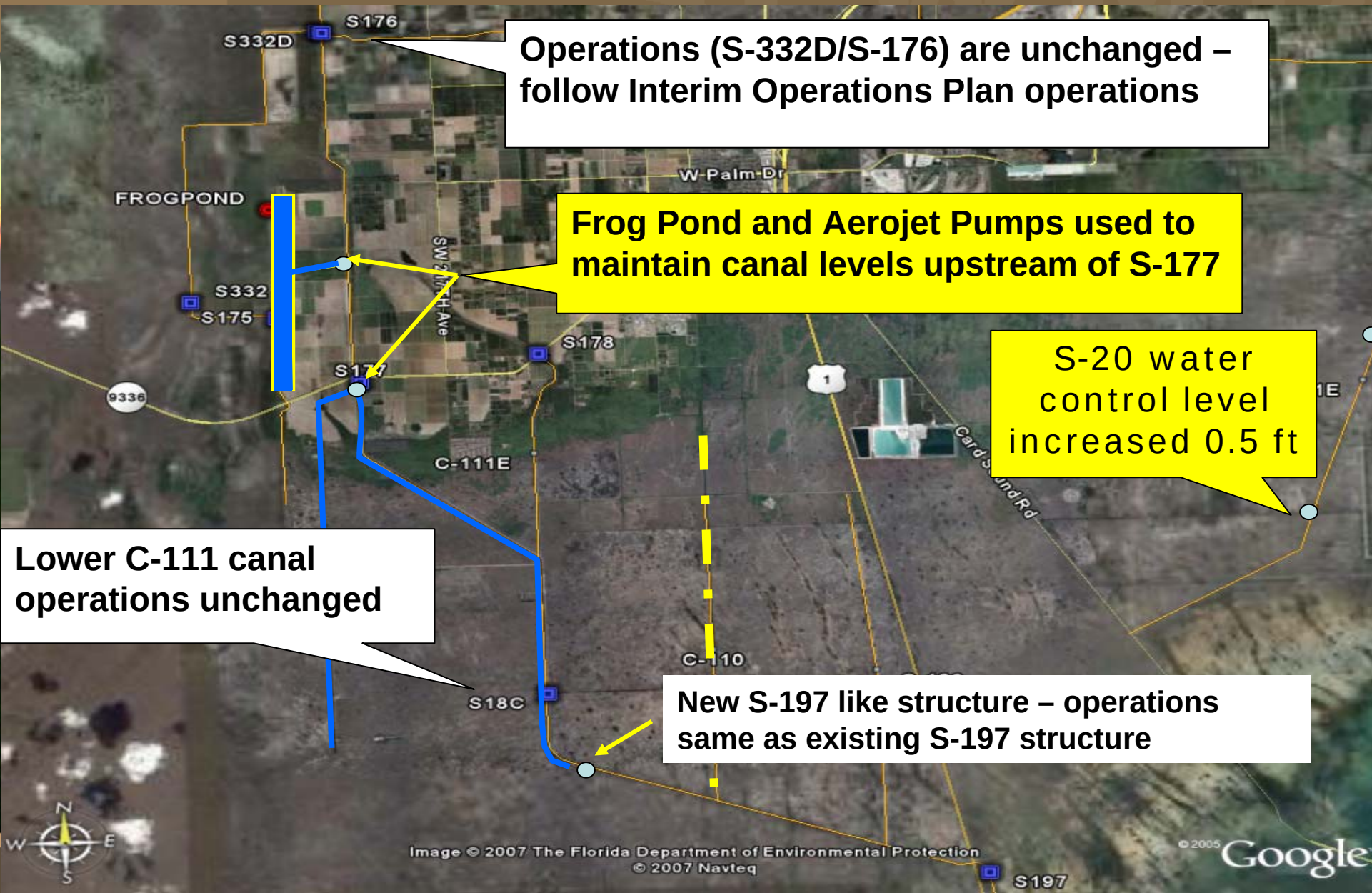
Constraints and Process for Draft Project Operating Plan Approval

- The draft operating plan works in concert with Tentatively Selected Plan features– future PIRs will address other structural modifications
- Draft operating plan must be coordinated with USFWS and other agencies
- Additional public review
  - Draft PIR release in March, 2009
  - Final in June, 2009

Project Implementation Report Development and WRAC Issues Team Review

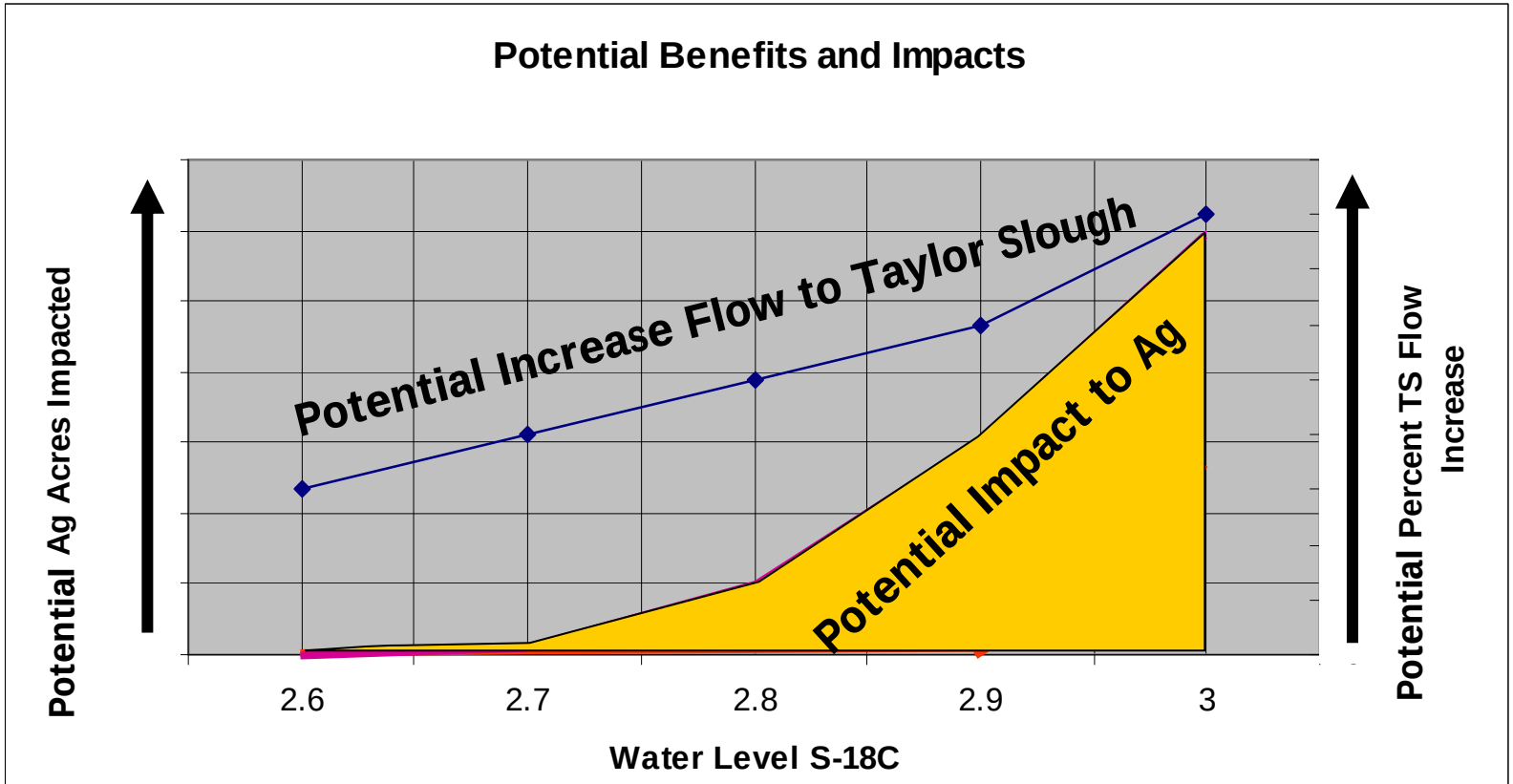


Tentatively Selected Plan Base Operations



Incremental Water Control Increases at the S-18C Water Control Structure

There is model uncertainty in the accuracy of potential benefits and potential impacts of water control level changes



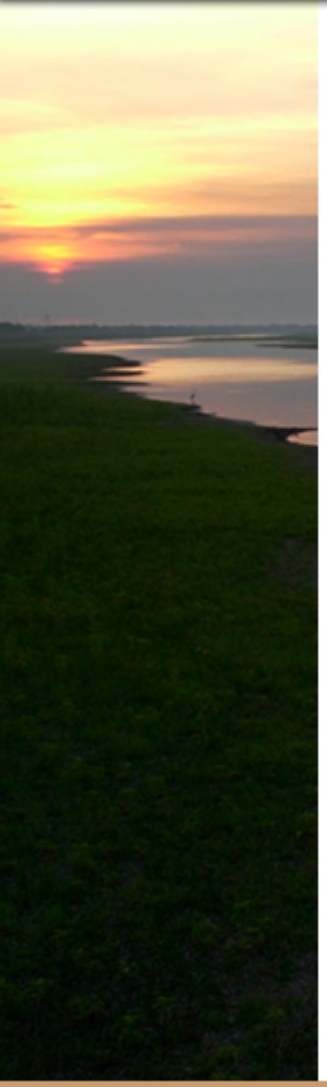
Generalized Adaptive Incremental Implementation

Recommendation: Implement each change for a complete wet season before scheduling next sequence of operational changes

Months : **Years Post Construction**

	1	2	3	Yr-1	2	3	4	5	6	
Test Pumps										
Implement Basic Ops										
Increment – 1 increase 0.1 ft										
Increment – 2 increase 0.2 ft										
Increment – 3 increase 0.3 ft										
Increment – 4 increase 0.4 ft										

Decision Process for Changing Water Control Levels



Base Operations

Incremental Operations Adjustments to Increase Taylor Slough Flow

Recommend PIR-2

Mitigation Measures or Acquire Real Estate

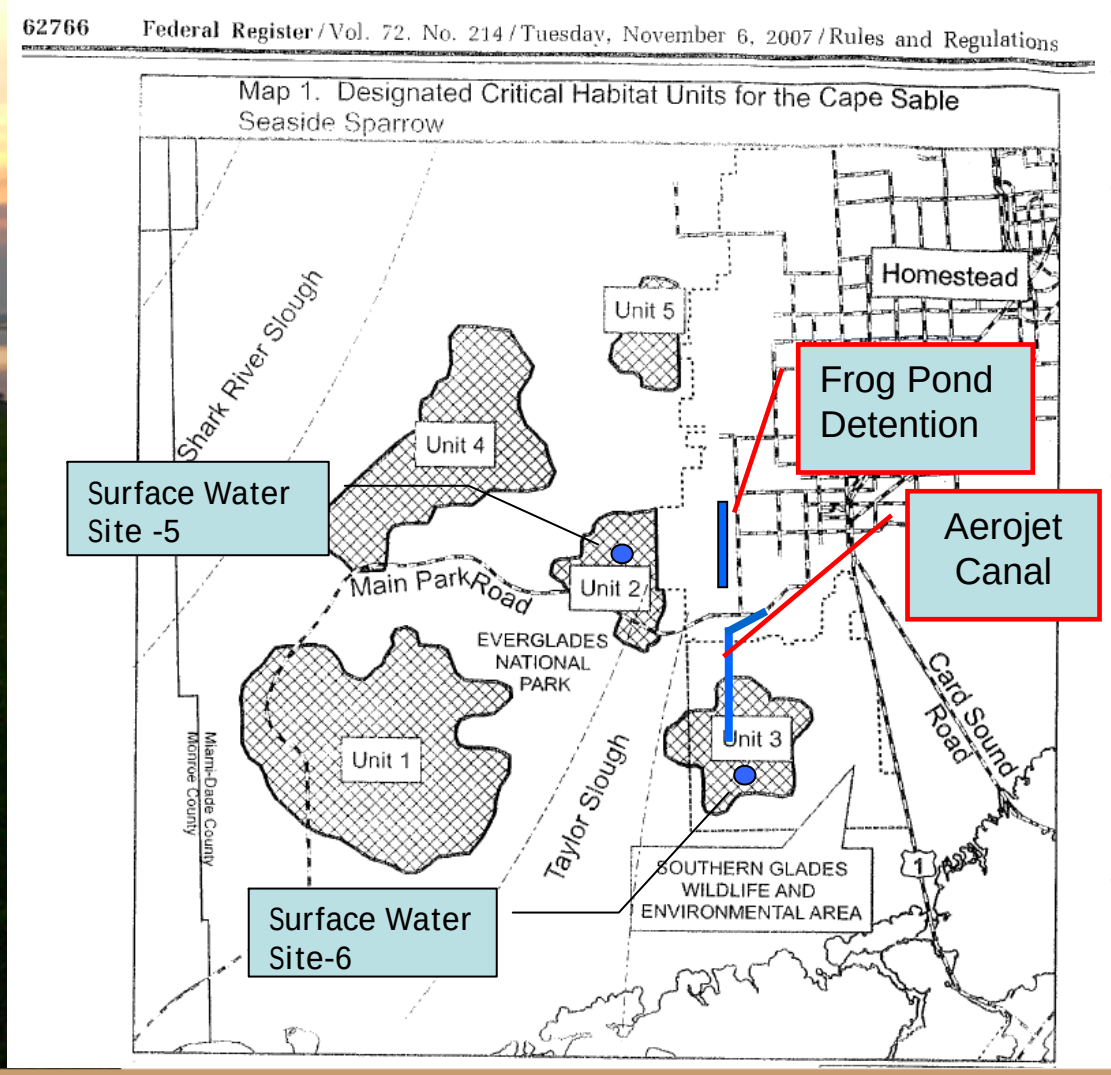
Validate Model Sensitivity – Simulate next Increment

Validate Flood Control Responses

Measure Sensitivity Agricultural/Environmental

weekly operations evaluations
- **rainfall**
- **ag monitoring wells**
- **canal levels**

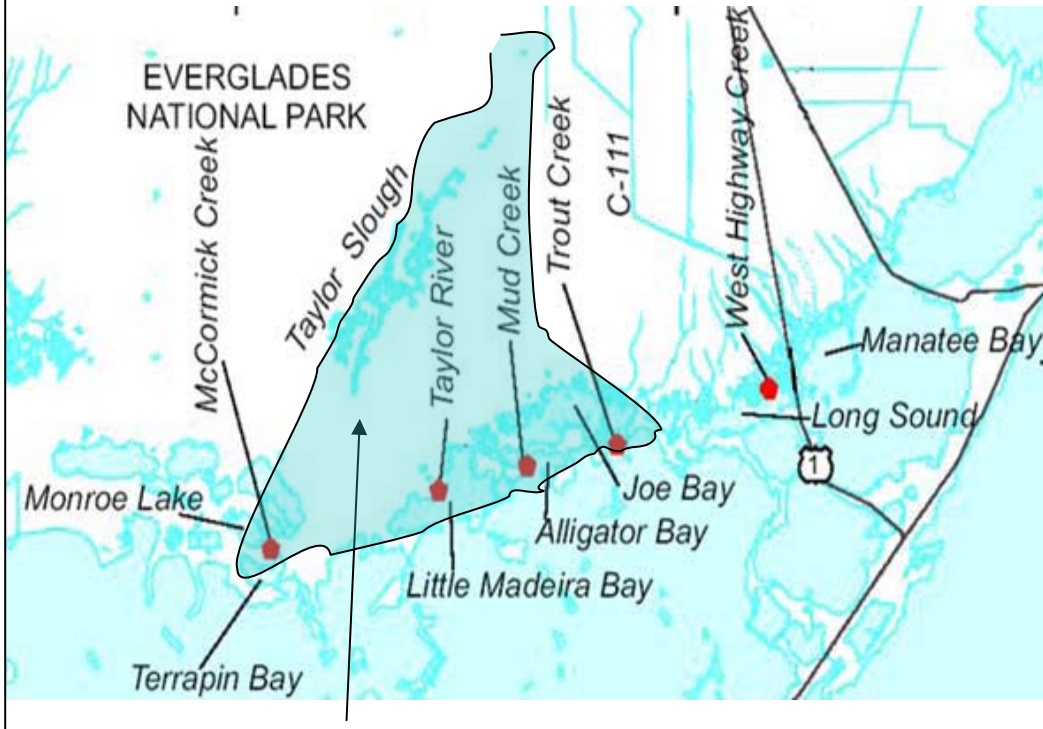
Cape Sable Seaside Sparrow Habitats



- Habitat revised in 2007
- Guidelines under the Interim Operating Plan will be followed until superseded by CSOP
- Cease pumping during the nesting season when depths exceed 0.3 feet above ground between February 1 to July 15
- Project operations should not significantly alter critical Sparrow habitat

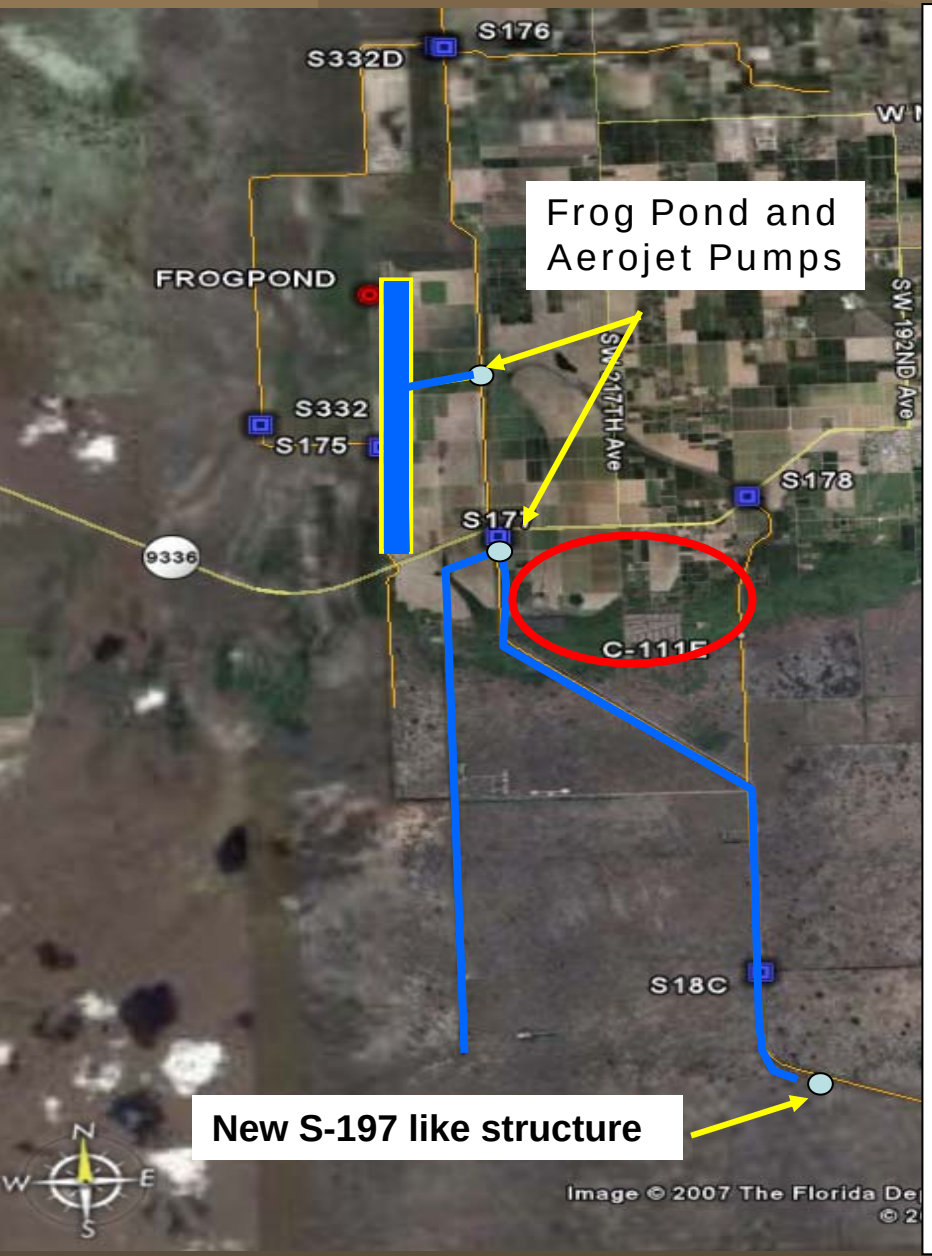
Panhandle Wetland Stage Protection Measures

- **Utilize local marsh gauges to track wetland recession rates**
- **Provide some base flow through S-18C Jan – Apr contingent on water availability**

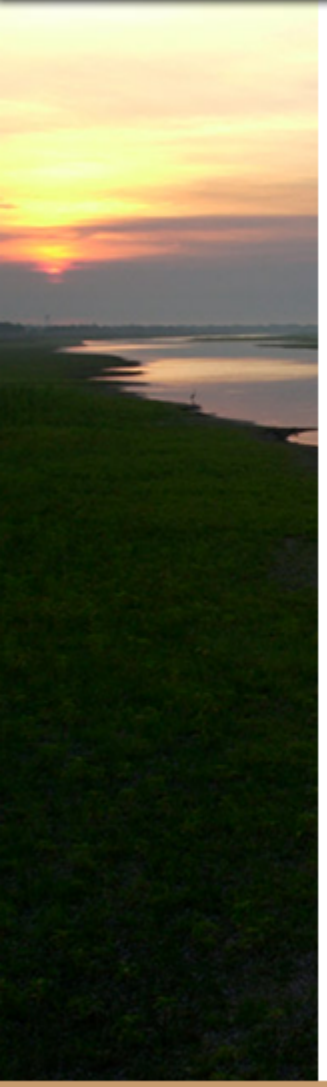


Higher annual flow

Agricultural Protection During Planned S-18C Water Level Increases



- **Install monitoring wells to measure water levels in real time**
- **Operations reviewed weekly with Corps of Engineers and adjustments made as needed based on flooding risk and forecasted rainfall**
- **Adjust operations to maintain current levels of protection from root zone flooding**



Questions?