

# Interim Operational Plan (IOP)



Jacksonville District  
U.S. Army Corps of Engineers  
Dec 2008

**C & SF  
BOUNDARY**

**KISSIMMEE  
RIVER**

**STUART**

**LAKE  
OKEECHOBEE**

**WATER  
CONSERVATION  
AREAS**

**Primary Area of Interest**

**BIG CYPRESS  
NATIONAL PRESERVE**

**MIAMI**

**EVERGLADES  
NATIONAL  
PARK**

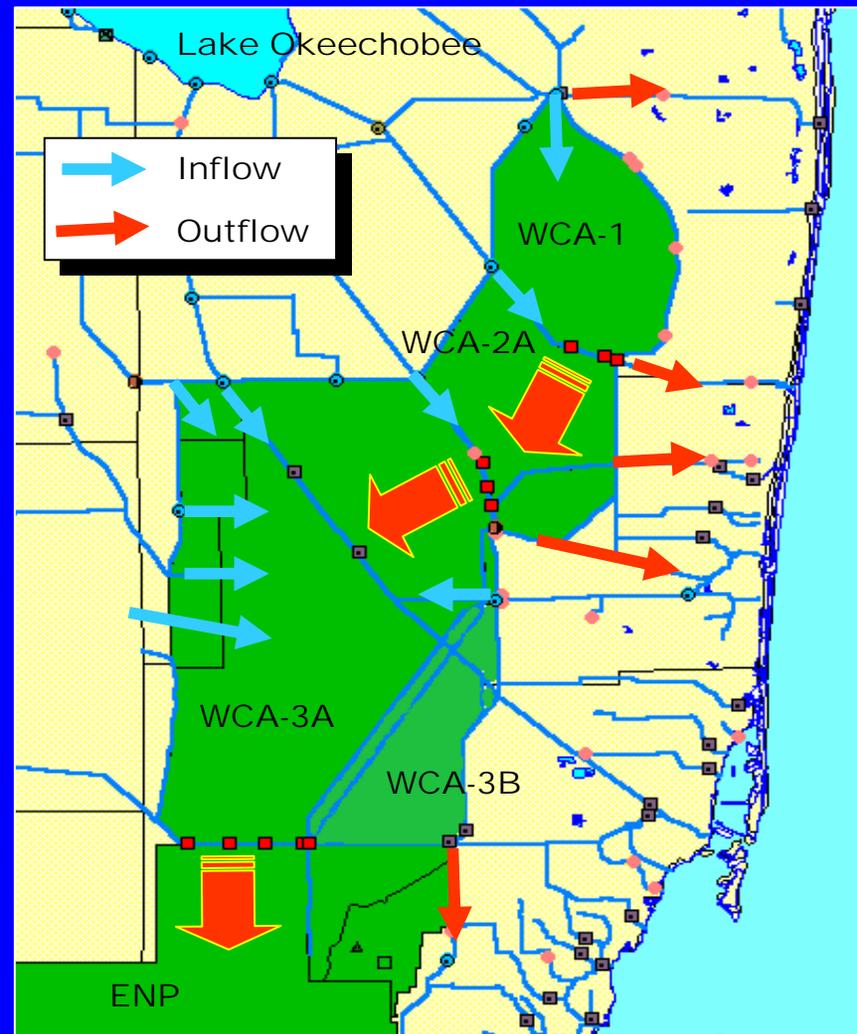
**CENTRAL AND SOUTHERN  
FLORIDA PROJECT**

**N**

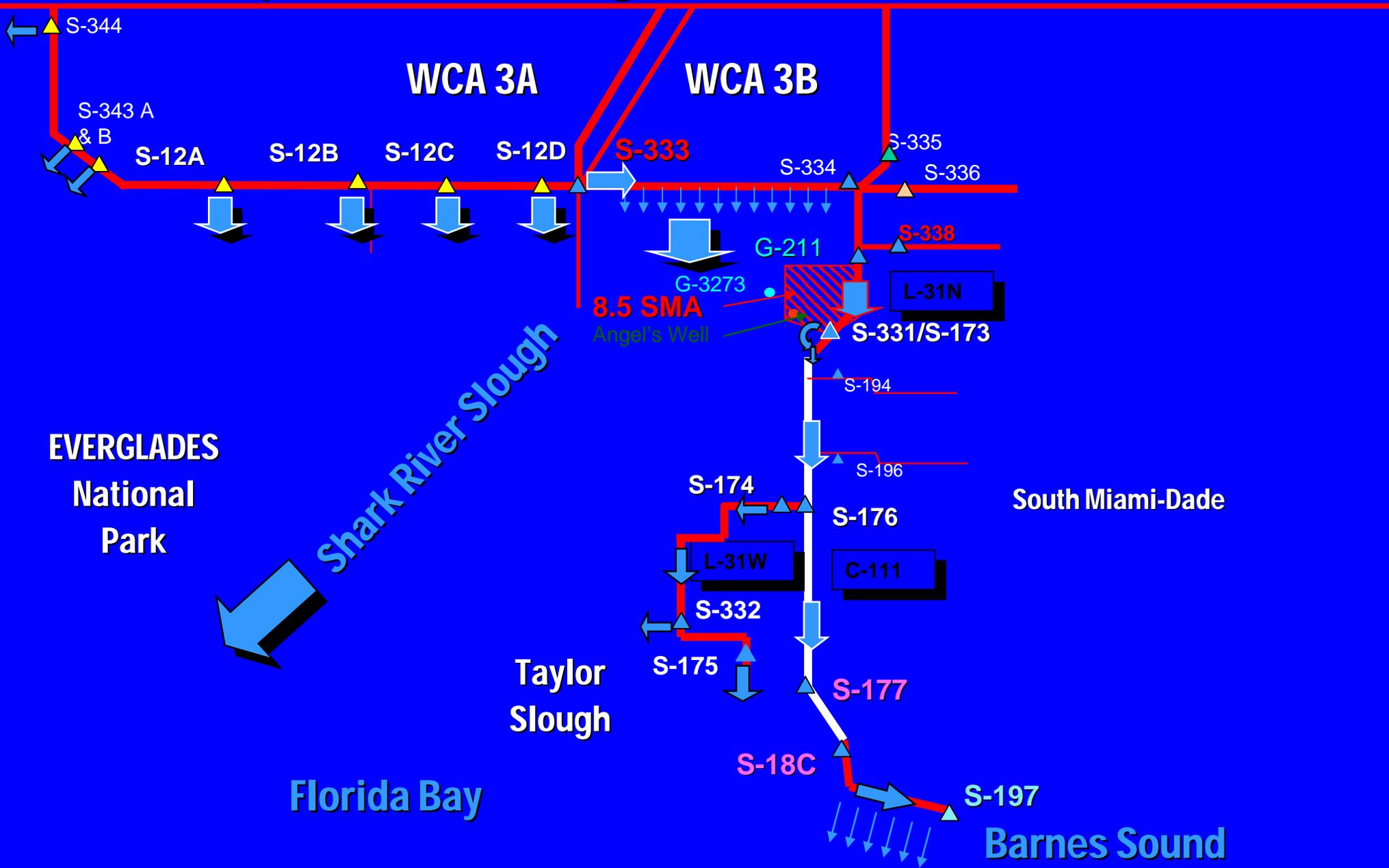


# Water Conservation Areas Flow Patterns

- Major structures within the WCAs discharge south toward Everglades National Park
- Smaller structures discharge east, primarily for water supply purposes

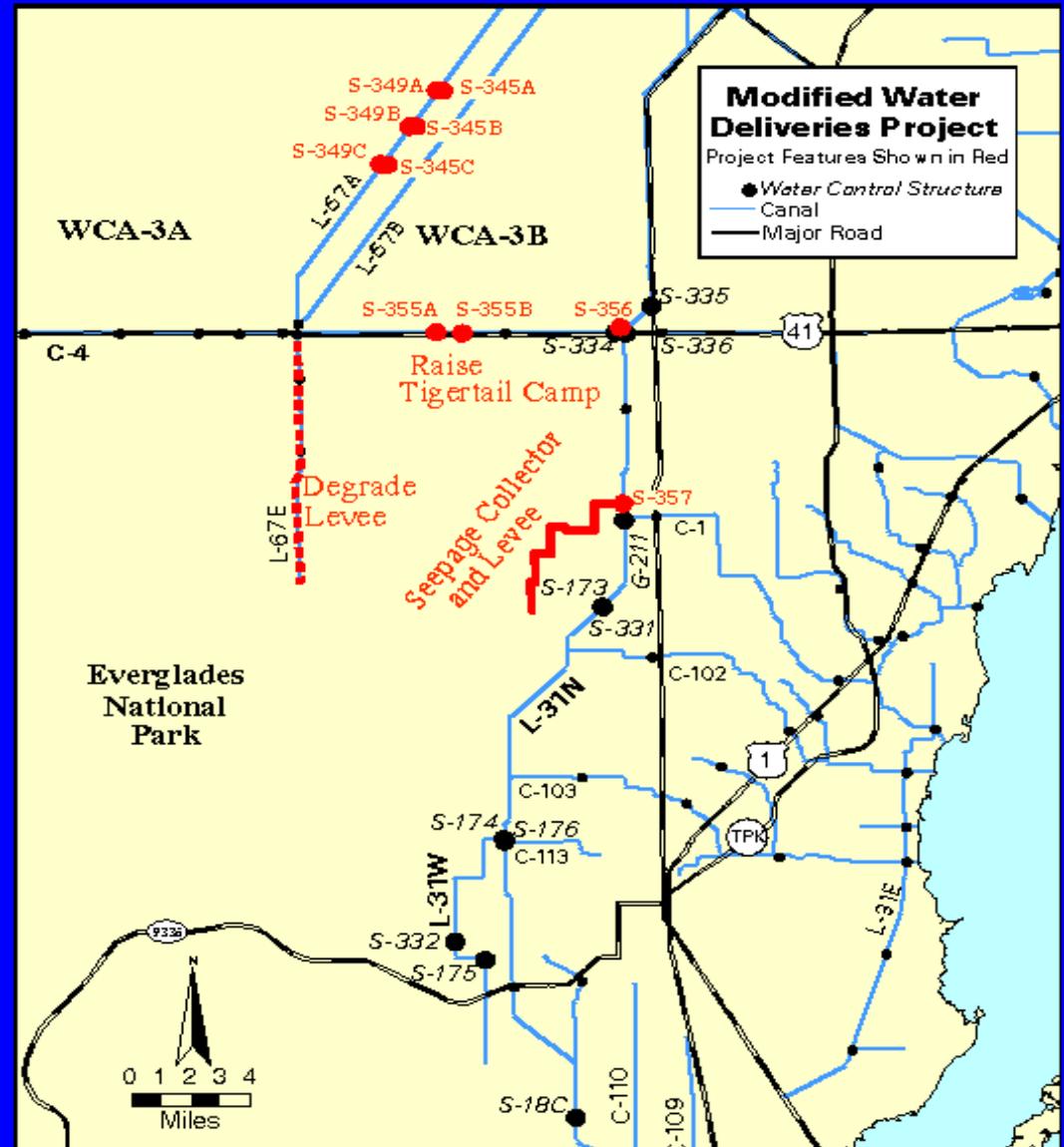


# Experimental Program - Test 7 Phase I

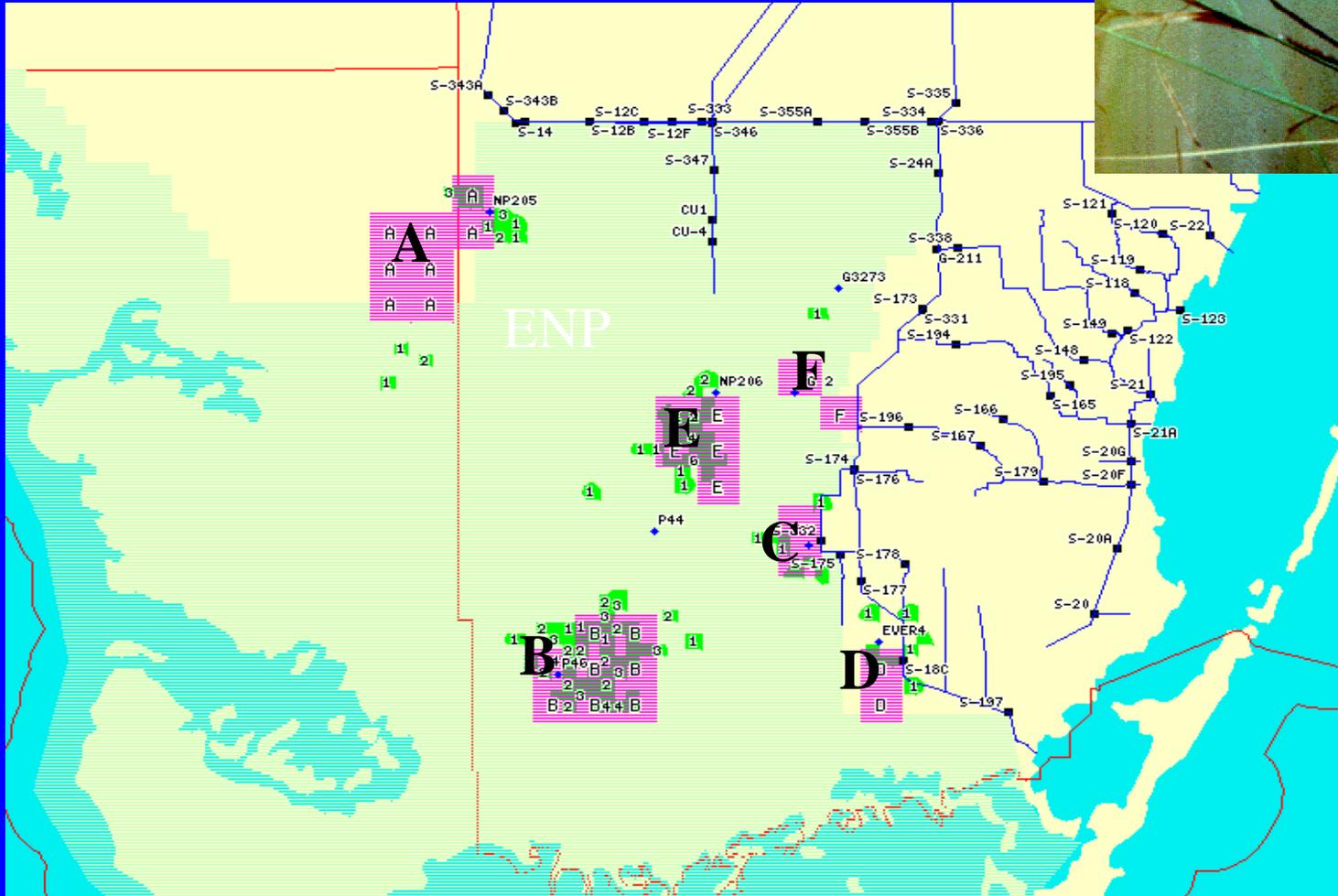


# Components of MWD

- 8.5 SMA
- Conveyance and Seepage Control Features
- Tamiami Trail Modifications



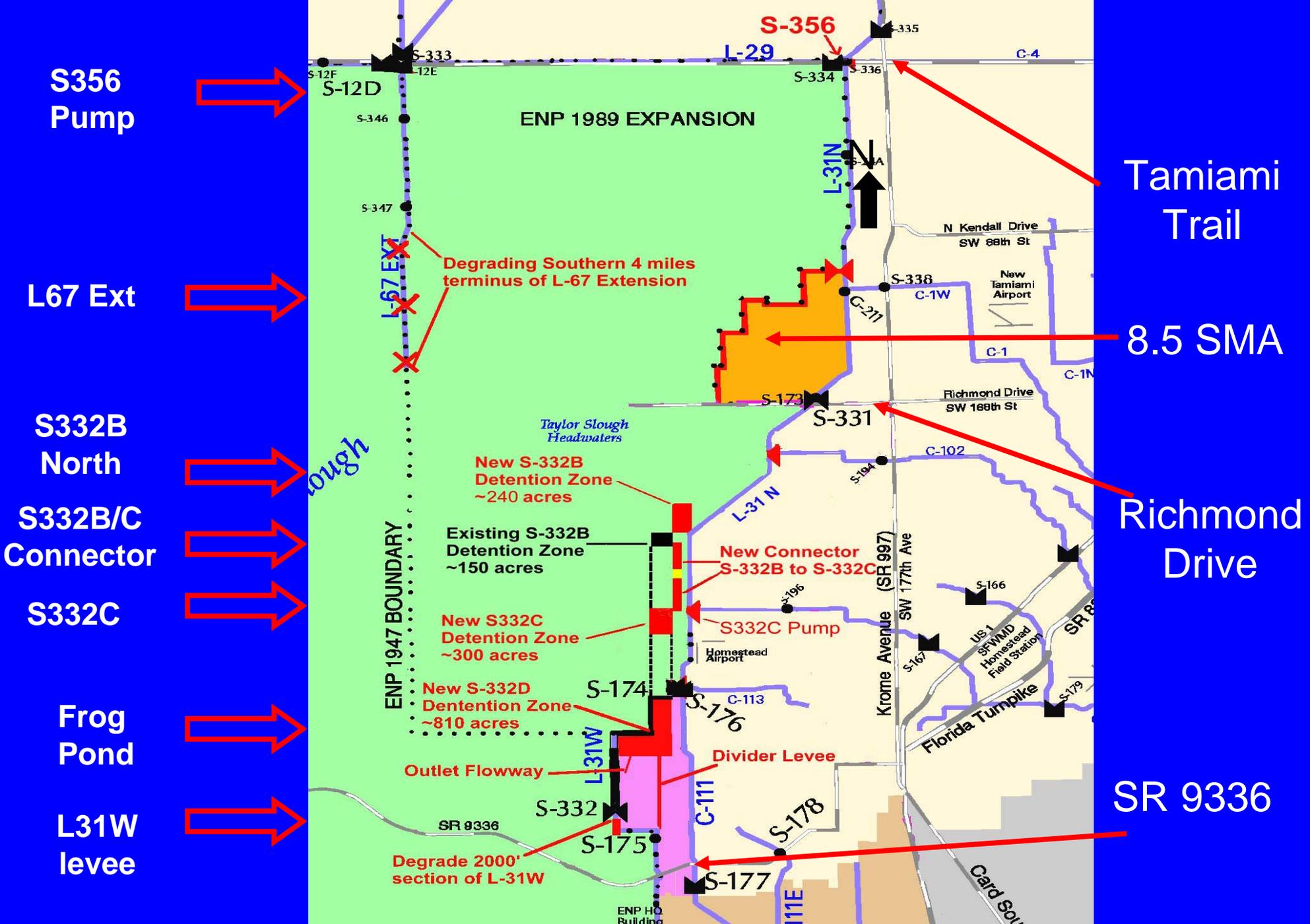
# Fish & Wildlife Biological Opinion of 1999 on Cape Sable Seaside Sparrow



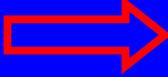
- Jeopardy on Experimental Program (Test 7 operations)

# Reasonable & Prudent Alternative - Phased-In Approach

- Mar 99 - NP205 - 6 ft - 45 days
- May 99 - Fire Management Strategy
- Mar 00 - NP205 - 6 ft - 60 days
  - Eastern - Test 7, Phase II
  - 30% Regulatory in NESRS
- Mar 01 - 45% Regulatory in NESRS
- Mar 02 - 60% Regulatory in NESRS



S356 Pump



L67 Ext



S332B North



S332B/C Connector



S332C



Frog Pond



L31W levee



Tamiami Trail

8.5 SMA

Richmond Drive

SR 9336



# **Interim Operational Plan**

**Will Be In Place Until MWD and  
C111 Projects Are Completed**

# Interim Operational Plan (IOP) – ALT 7R

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- **L-31N Canal Levels - Two Modes of Operation**
  - When bypassing water from WCA-3A slight increase in canal levels above ISOP but less than Test 7 Phase 1
  - When not bypassing water, levels up to Test 7 Phase 1 levels
- **Pre Storm Draw down Operations**

# IOP - Alternative 7R

## Operational Considerations

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- Seepage Reservoirs – normal max depth of 2-ft except in flood emergencies could be increased to 4-ft. No direct overflow to ENP (**except** @ S332B west during flood emergencies during construction phase but is also greatly reduced during construction phase)
- Normal operations of S332B, C and D pump stations targeted to achieve marsh restoration – proposed E-W hydraulic gradient

# **IOP - Alternative 7R**

## **Operational Considerations Cont'd**

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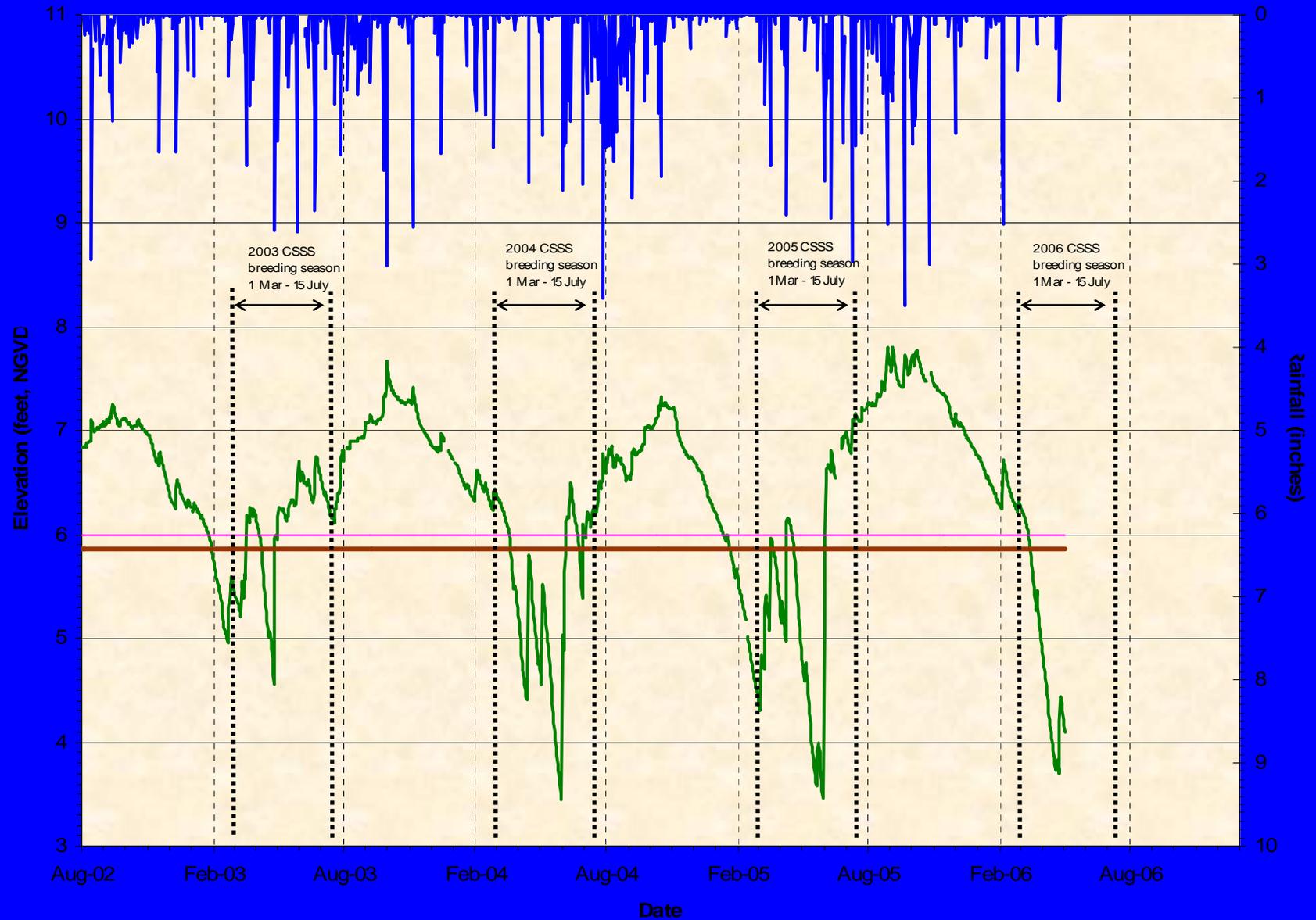
- **S356 Pump station limited to seepage rate along reach of L31N between S335 and G211**
- **SFWMD to recommend implementation of Pre-Storm Draw Down for other than named tropical storms when antecedent conditions already very wet (i.e. *No Name Storm*) – COE to advise other agencies and make decision on implementation**

# Canal Level Changes Proposed

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|                 | ISOP<br>Operations | W/O Bypass<br>( Test 7, Phase 1) | W/Bypass    |
|-----------------|--------------------|----------------------------------|-------------|
| • <b>G-211</b>  | <b>5.70</b>        | <b>6.00</b>                      | <b>5.70</b> |
|                 | <b>5.30</b>        | <b>5.50</b>                      | <b>5.30</b> |
| • <b>S-332B</b> | <b>4.70</b>        | <b>5.00</b>                      | <b>4.80</b> |
|                 | <b>4.20</b>        | <b>4.70</b>                      | <b>4.50</b> |
| • <b>S-332D</b> | <b>4.50</b>        | <b>4.85</b>                      | <b>4.70</b> |
|                 | <b>4.00</b>        | <b>4.65</b>                      | <b>4.50</b> |
| • <b>S-196</b>  | <b>4.70</b>        | <b>5.50</b>                      | <b>4.90</b> |
|                 | <b>4.20</b>        | <b>4.80</b>                      | <b>4.50</b> |

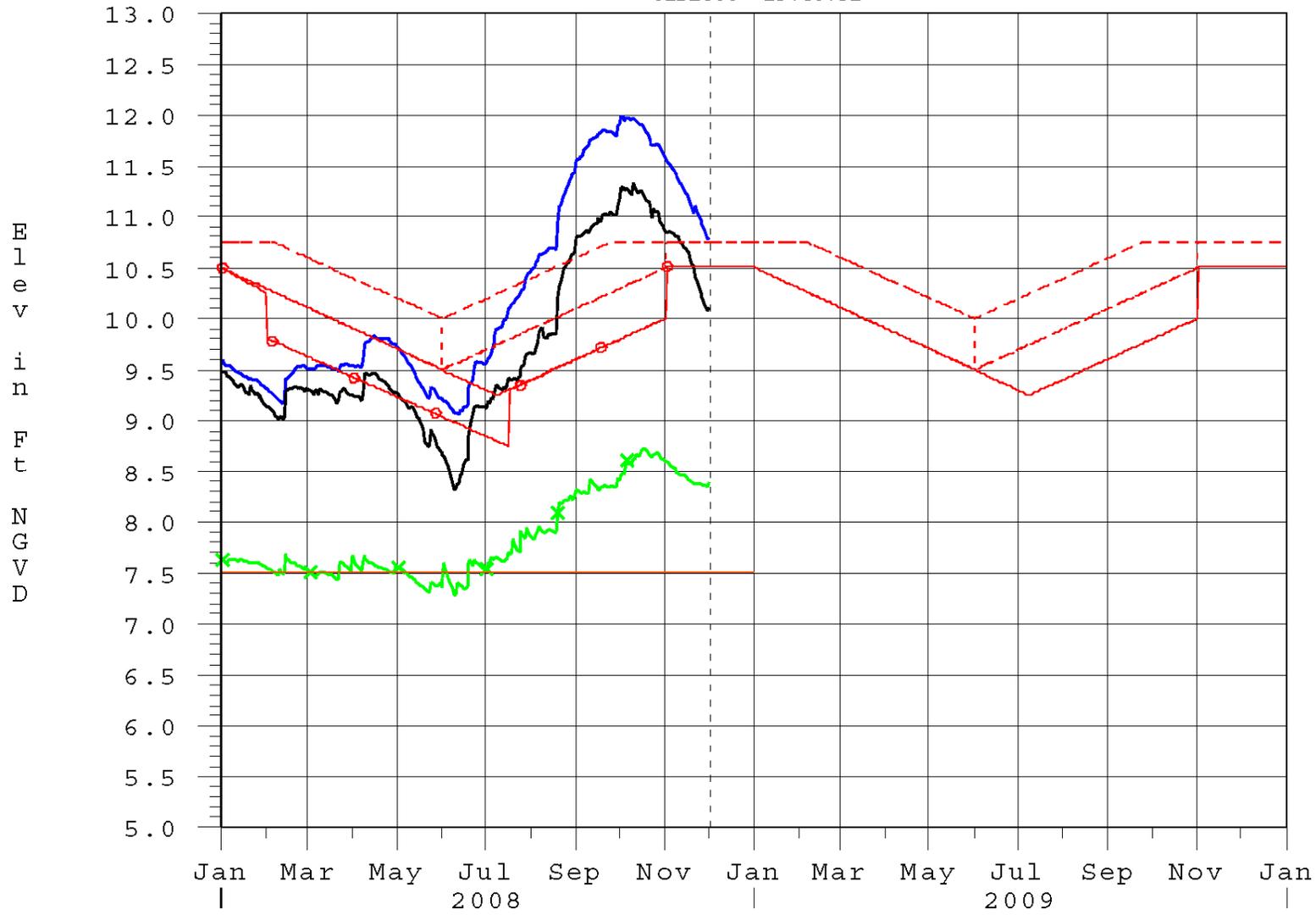
# CSSS Sub-population A (NP-205) (2002-present)



— Elevation — IOP constraint (6.0) — Ground surface elevation (5.86) — Rainfall

# Water Conservation Area #3A

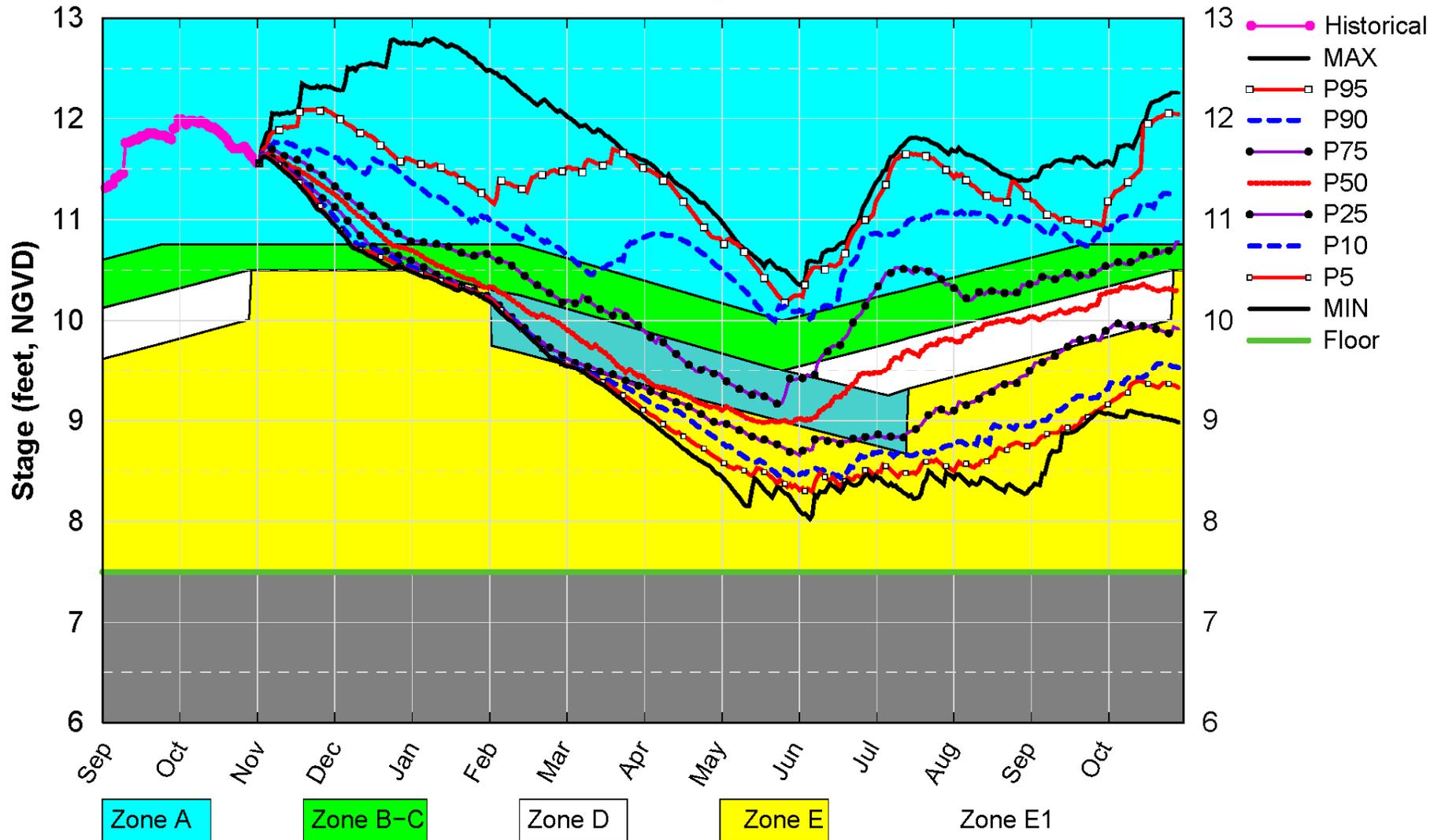
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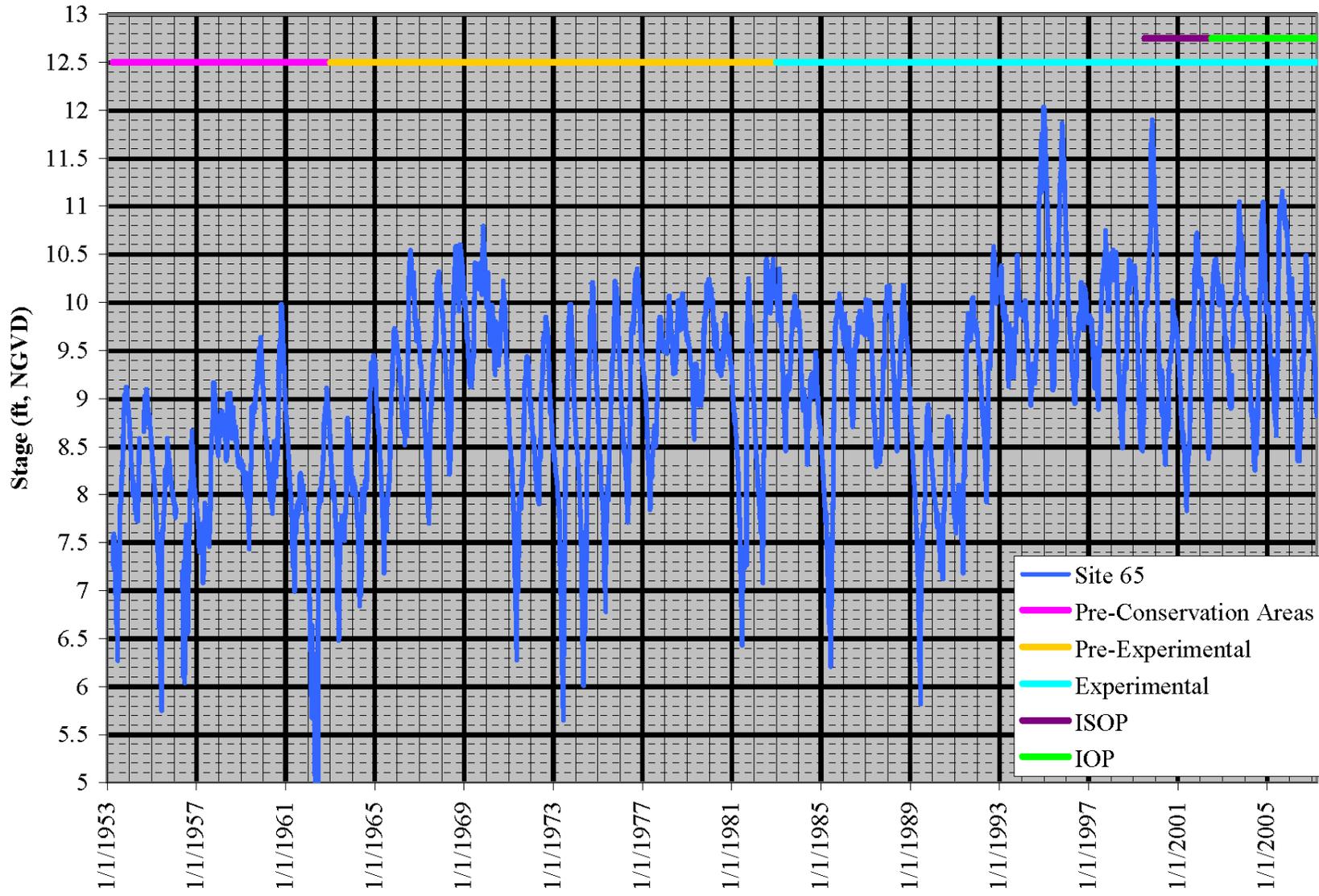
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|--|----------------------------|--|--------------------|
|  | Avg Elev (Site 63, 64, 65) |  | Zone D Regulation  |
|  | S-333 Head-Water           |  | Zone E Regulation  |
|  | Site 71 Elev in WCA #3B    |  | Zone E1 Regulation |
|  | Zone B Regulation          |  | Zone F Regulation  |
|  | Zone C Regulation          |  |                    |

# WCA3A SFWMM November 2008 Position Analysis

Percentiles PA\_V4



(See assumptions on the Position Analysis Results website)



# **The Future - COP**

## **Combined Operational Plan**

**Being developed for operations with  
MWD and C-111 in place**

**THANK YOU**

