



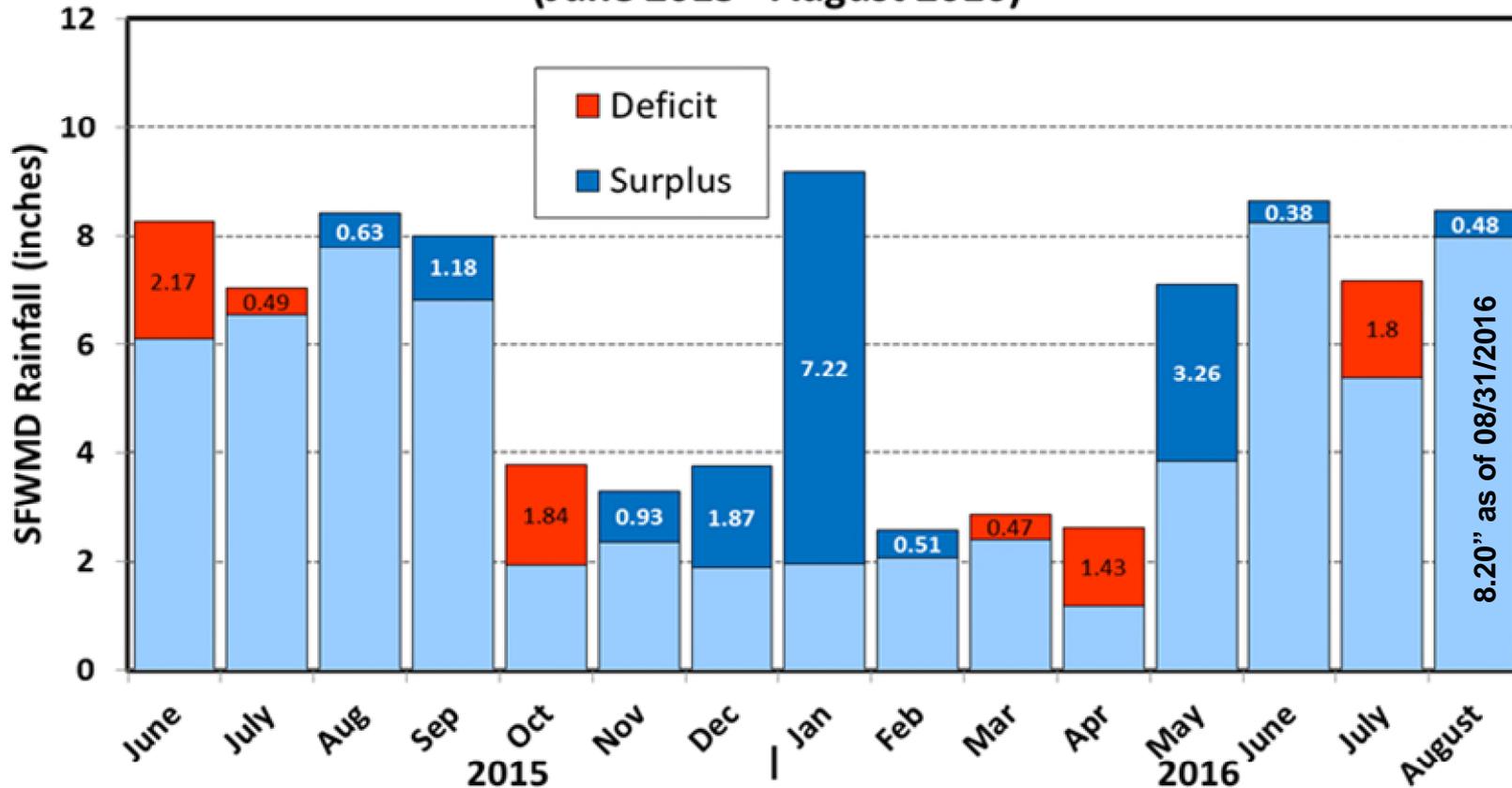
Water Conditions Summary

South Florida Water Management District
Water Resources Advisory Commission Meeting
September 1, 2016

John P. Mitnik, P.E.
Division Director, Operations, Engineering and Construction

SFWMD Rainfall Distribution Comparison

(June 2015 - August 2016)



2015 WET SEASON:

- Driest May-July since 2004
- Ended below average

2015-16 DRY AND 2016 EARLY WET SEASON:

- Nov 2015-Jan 2016 wettest since 1932
- Jan 2016 wettest since 1932
- Second wettest May since 1976
- Dry season 2015-16 168% above average
- 2016 Wet season is slightly below average

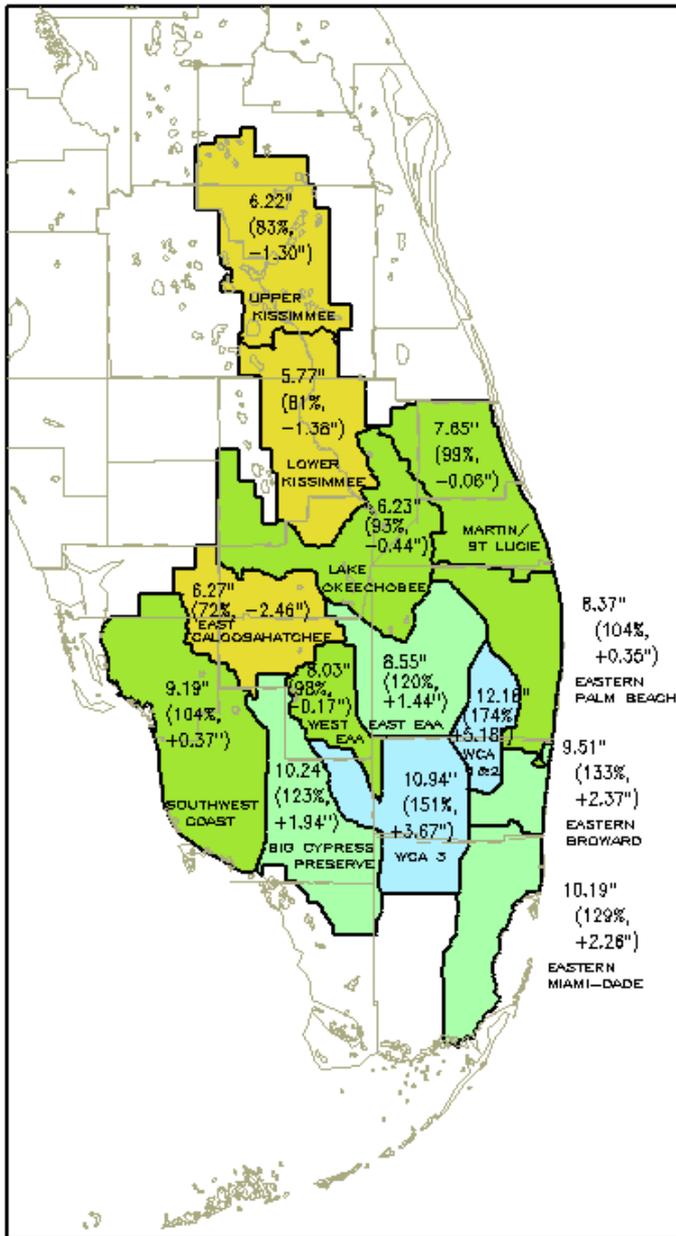
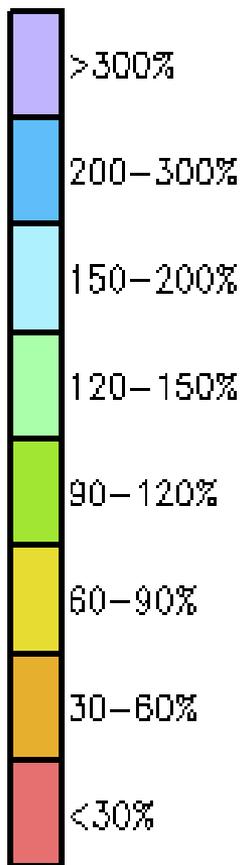
SFWMD

August 2016 Rainfall

(02-Aug to 31-Aug-2016)

DISTRICT-WIDE: 8.20"
106% of Avg, or +0.48"

- Most of August rainfall has been concentrated on the Everglades and the Eastern urban areas.
- WCAs have received about 130% of the average for this time of the year

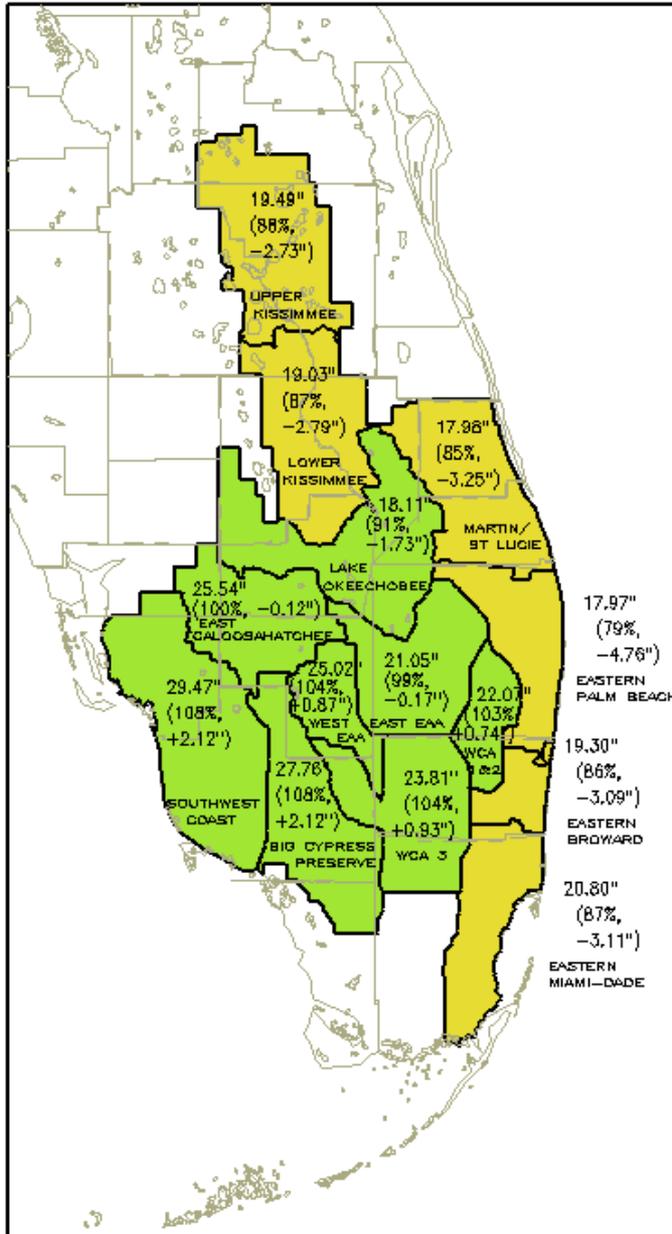
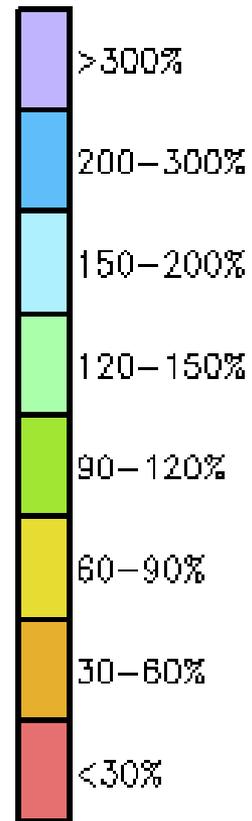


Measured
 (% of Avg,
 Diff From Avg)

SFWMD 2016 Wet Season Rainfall

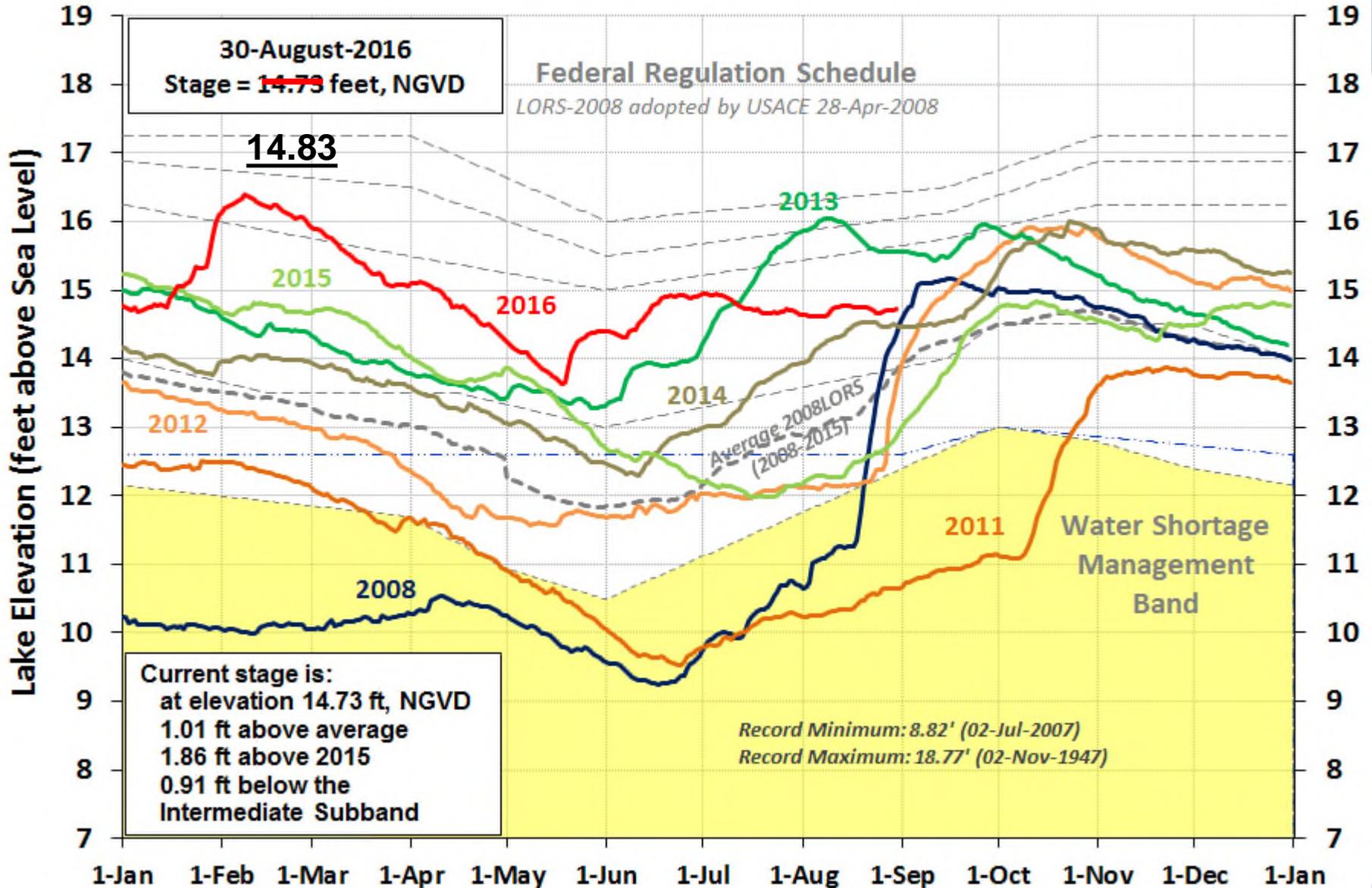
(02-Jun-2016 to 31-Aug-2016
DISTRICT-WIDE: 22.21"
96% of Avg, or -0.94")

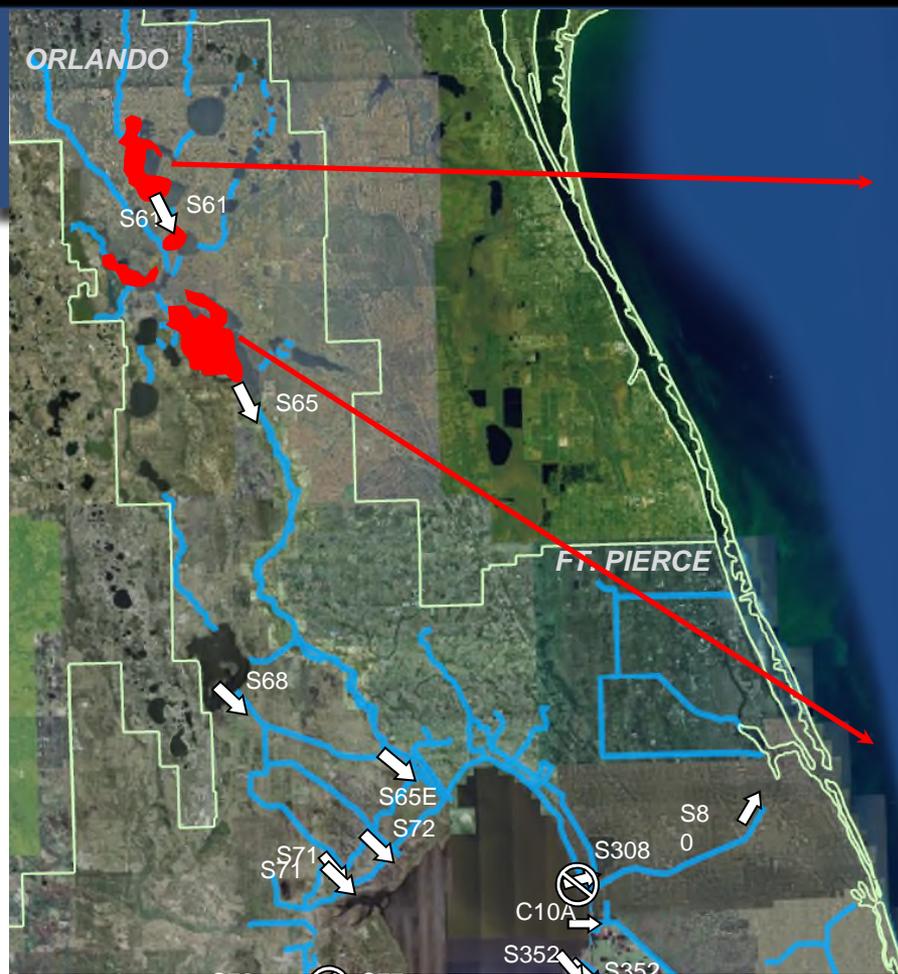
- District rainfall slightly below average for the first part of the 2016 wet season
- Lower East Coast areas are substantially below normal (87% to 79%)
- All other areas north and west are in the range 88%-108% of average



Measured
(% of Avg,
Diff From Avg)

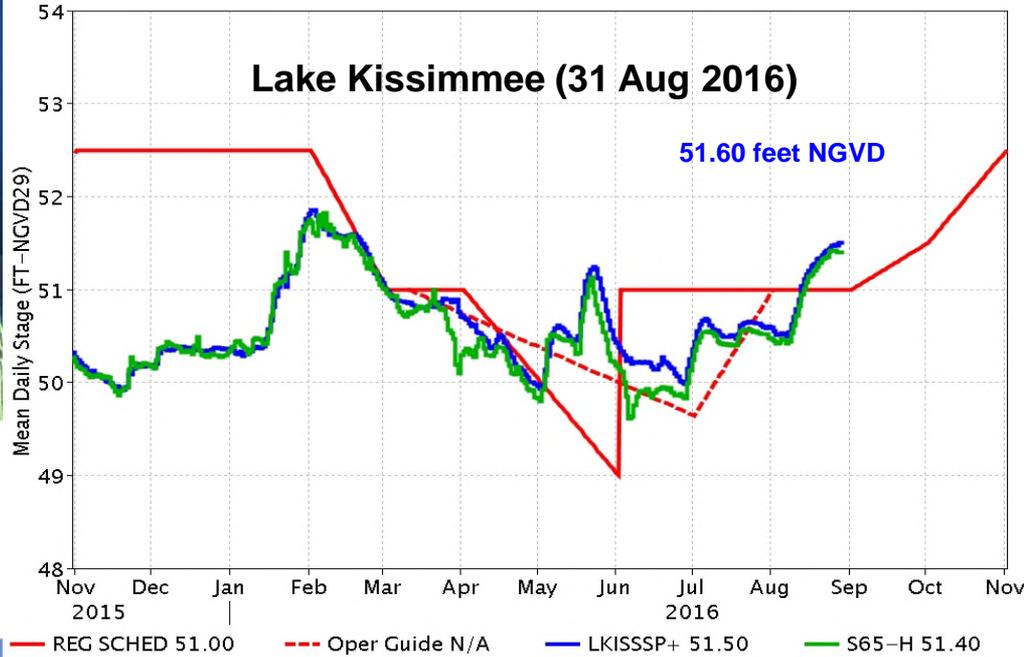
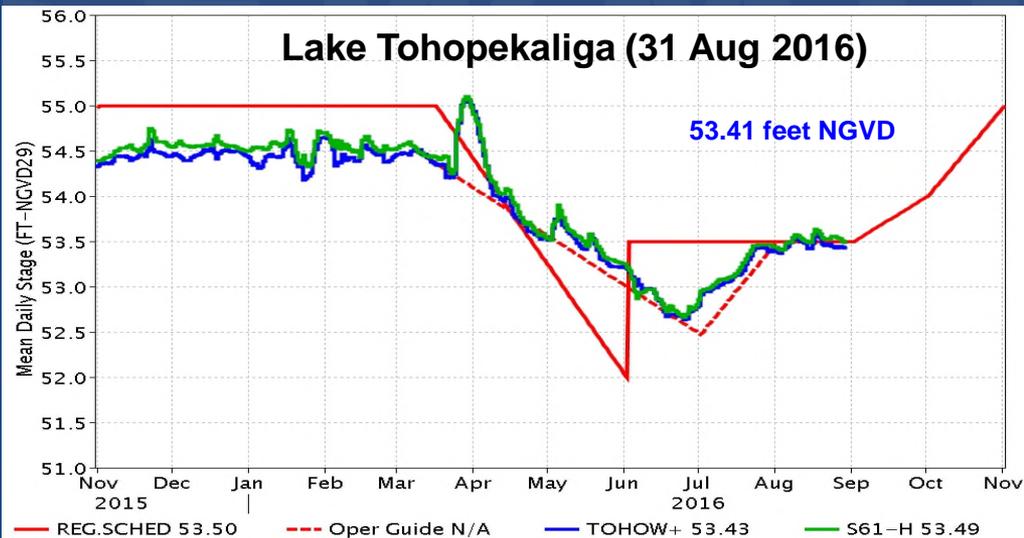
Lake Okeechobee Water Level Comparison

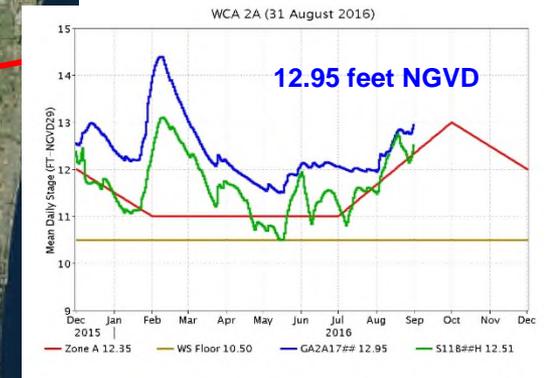
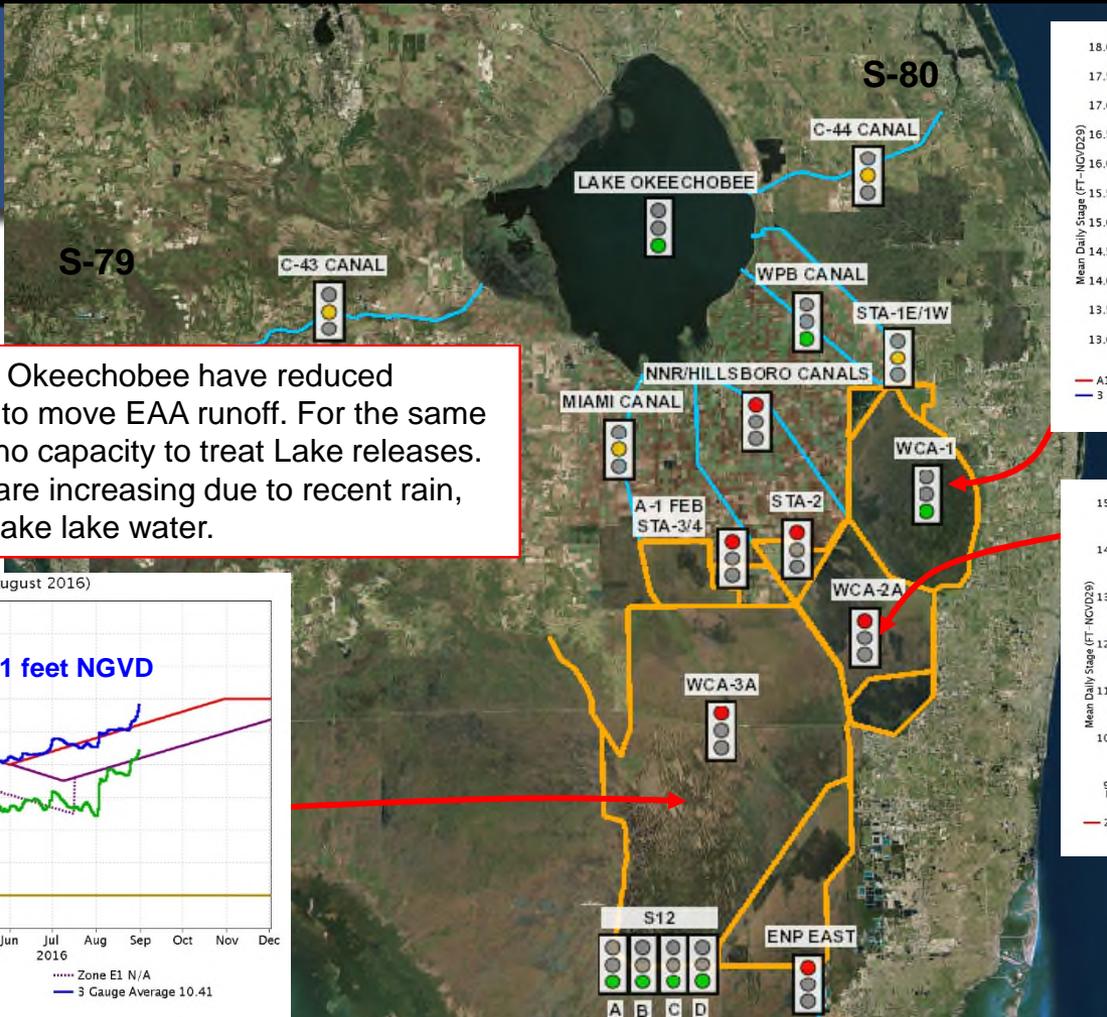




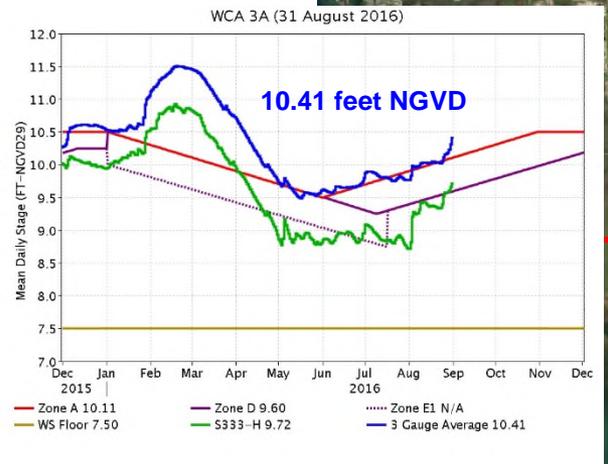
Kissimmee Basin

- Stages at Kissimmee-Cypress-Hatchineha are ~0.6 ft above schedule (summer pool elevation).
- Stages at East Toho and Toho are at schedule (summer pool elevation).
- All other lakes are very close to summer pool elevation.





Canals south of Lake Okeechobee have reduced capacity due to need to move EAA runoff. For the same reasons, STAs have no capacity to treat Lake releases. Stages in the WCAs are increasing due to recent rain, reducing capacity to take lake water.



Rainfall Plan calls for maximum releases from WCA-3A. Currently discharging ~ 1,440 cfs through S-12A/B/C/D. S-333 flows to NESRS have decreased through the week. Currently S-333 flows are 0 cfs. S-334 is closed and S-356 is not discharging. S-197 is discharging ~ 221 cfs.

- Regulation Schedule summarize WCA water level thresholds throughout the year
- Current objective is to keep water level between the red and purple lines
- If water levels rise above the red line, mandatory regulatory releases are made to return to the red line and no additional lake water can be sent to the WCA



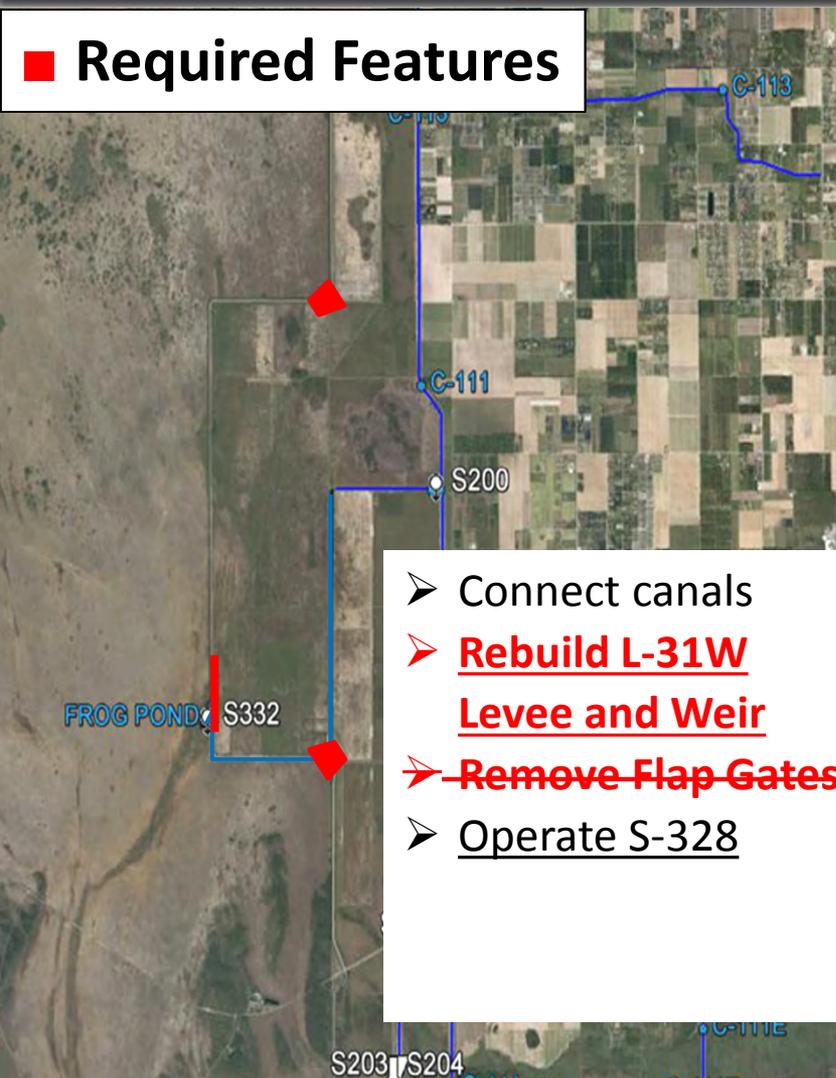
Moving Freshwater South to Florida Bay

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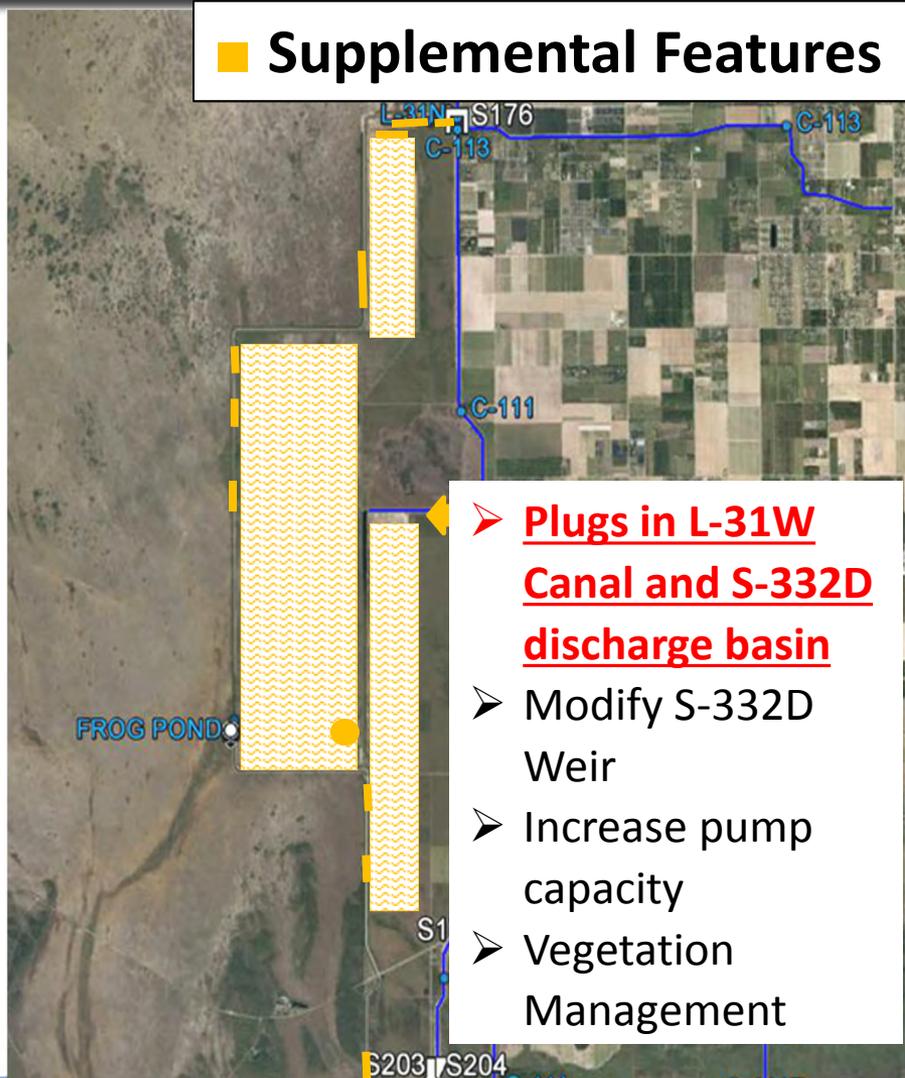
Proposed Features As Refined

Required Features



- Connect canals
- Rebuild L-31W Levee and Weir
- ~~Remove Flap Gates~~
- Operate S-328

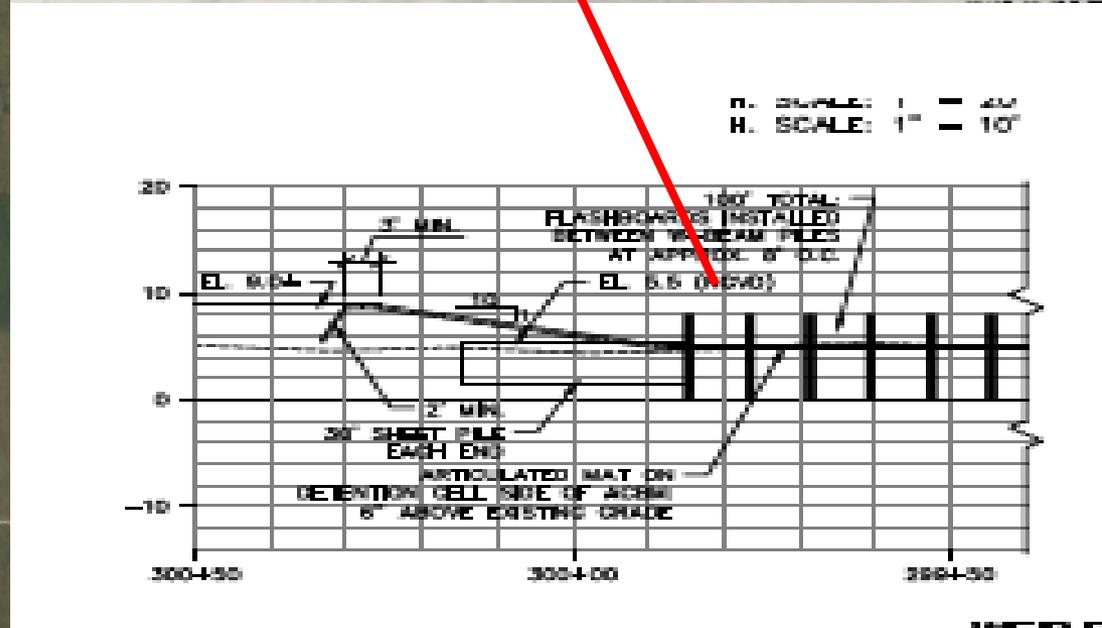
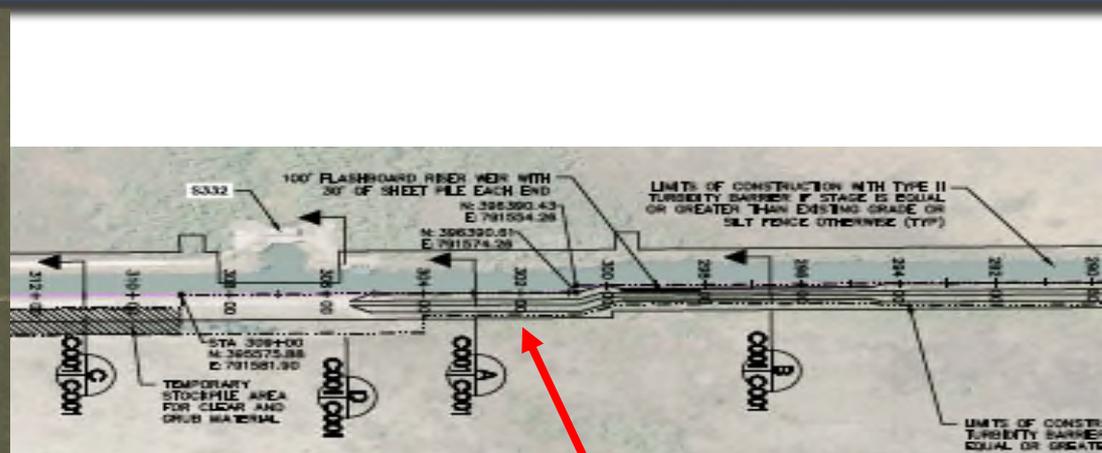
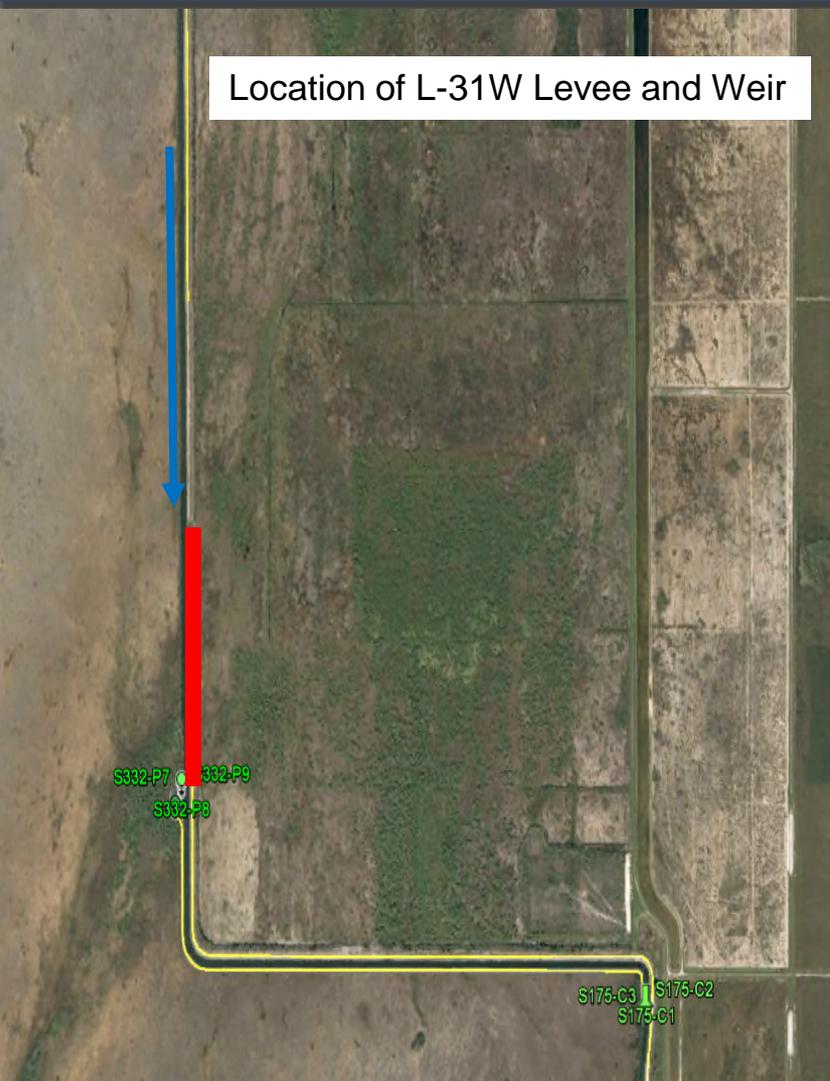
Supplemental Features



- Plugs in L-31W Canal and S-332D discharge basin
- Modify S-332D Weir
- Increase pump capacity
- Vegetation Management

Detail of L-31W Levee and Weir Feature - Refined

Location of L-31W Levee and Weir



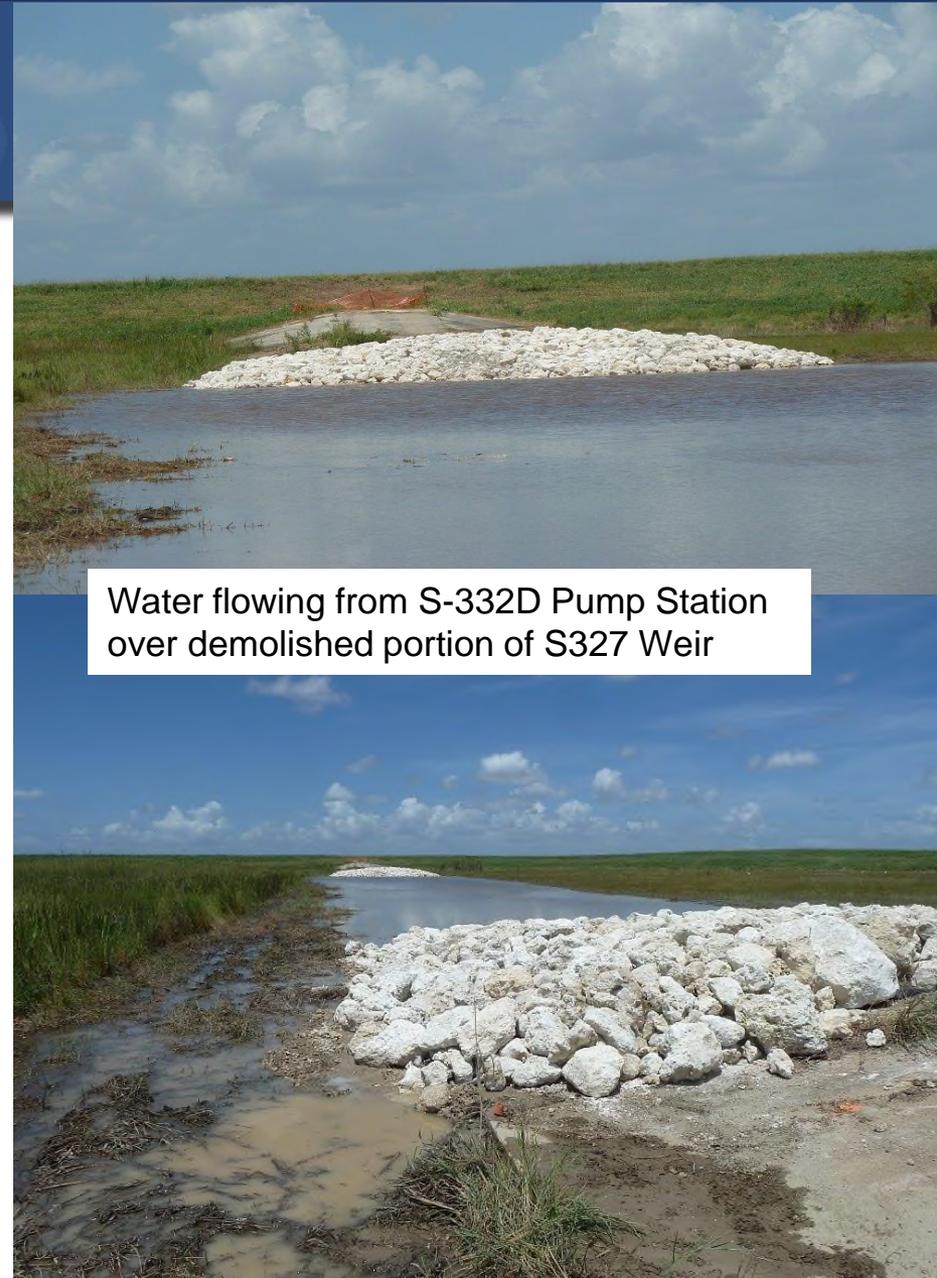
L-31W Canal Plug Locations

- Consistent with locations and function described in USACE EA/FONSI
- All plugs to grade
 - Except from S-175 west towards S-332 pump station
 - Plug at 0 feet NAVD
 - Grade varies between 2 to 5 feet NAVD
- 422,000 cubic yards of fill



Progress

- Completed designs based on revisions discussed with other agencies
- Applied for all permits to USACE and FDEP based on refined designs
- Prepared procurements packages to request bids based on refined designs
- Submitted Comments on USACE EA/FONSI



Water flowing from S-332D Pump Station over demolished portion of S327 Weir