

West Palm Beach Temporary Use of the C-17 Canal as Water Shortage Contingency

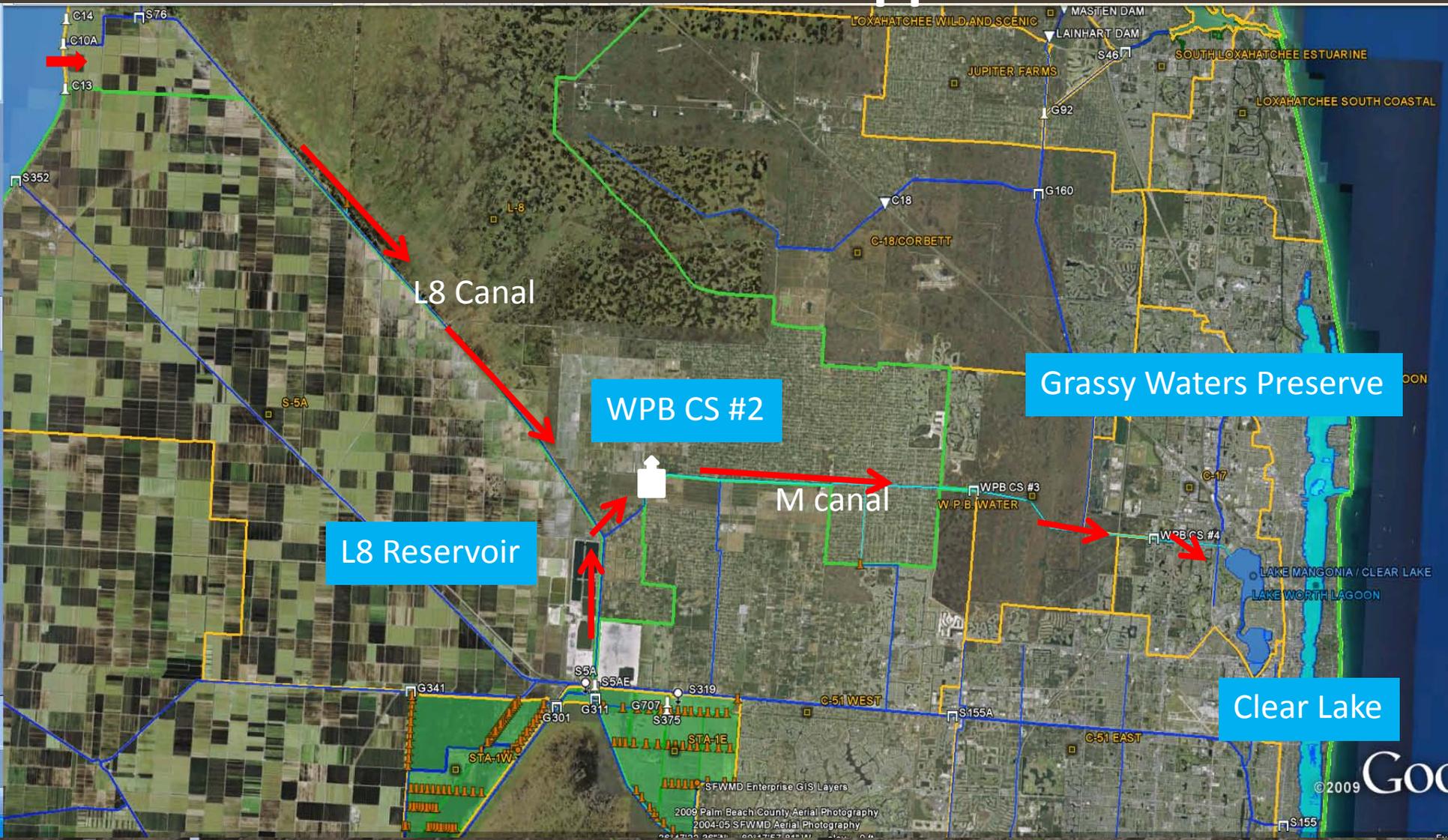
Governing Board Meeting
Item No. 55
October 13, 2011

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Chief Scientist, Water Resource Division

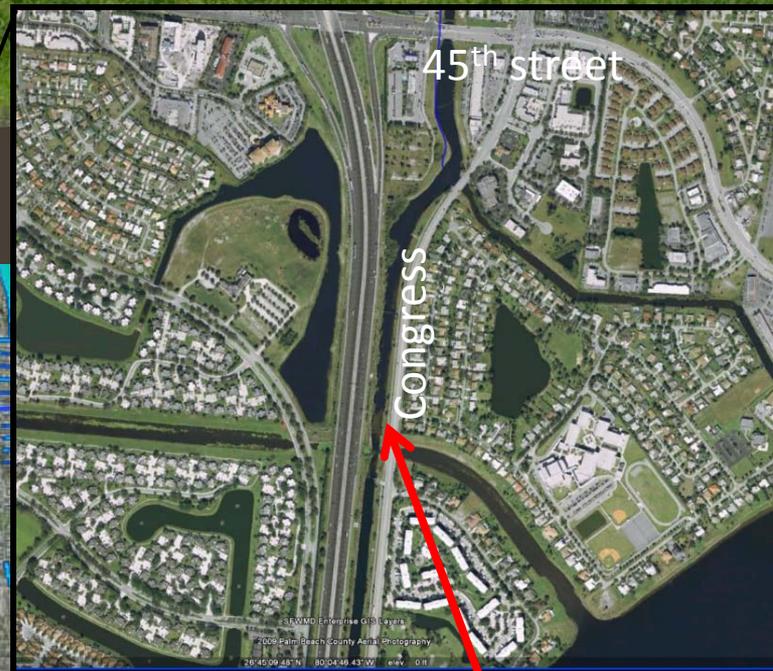
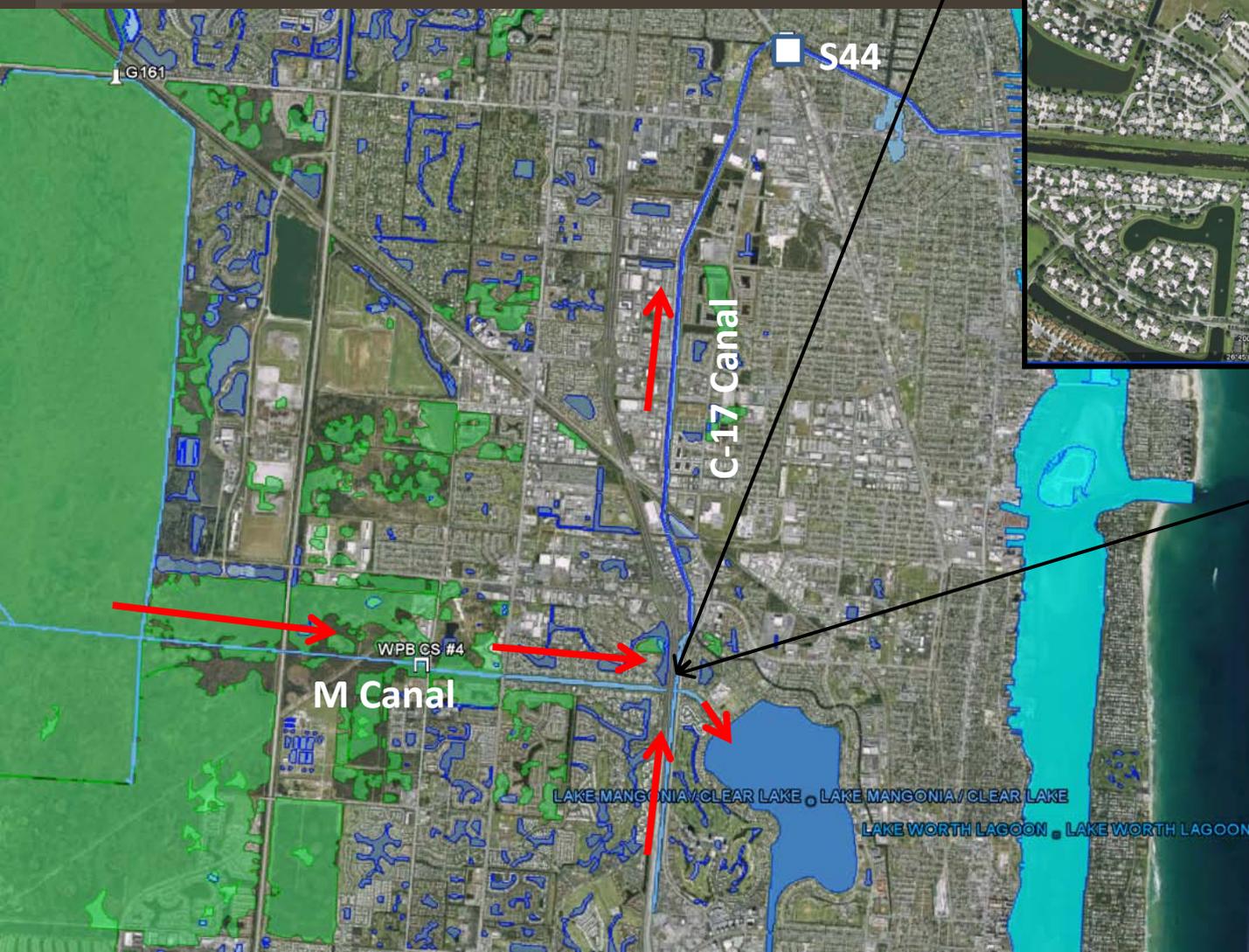
Background

- City of West Palm Beach uses surface water for potable supply
- Regional indicators suggest City's conventional surface water storage may be depleted by March/April 2012
- City has requested authority to temporarily pump excess C-17 flows into their water supply reservoir (Clear Lake/Lake Mangonia) when available

City of West Palm Beach Surface Water Supplies

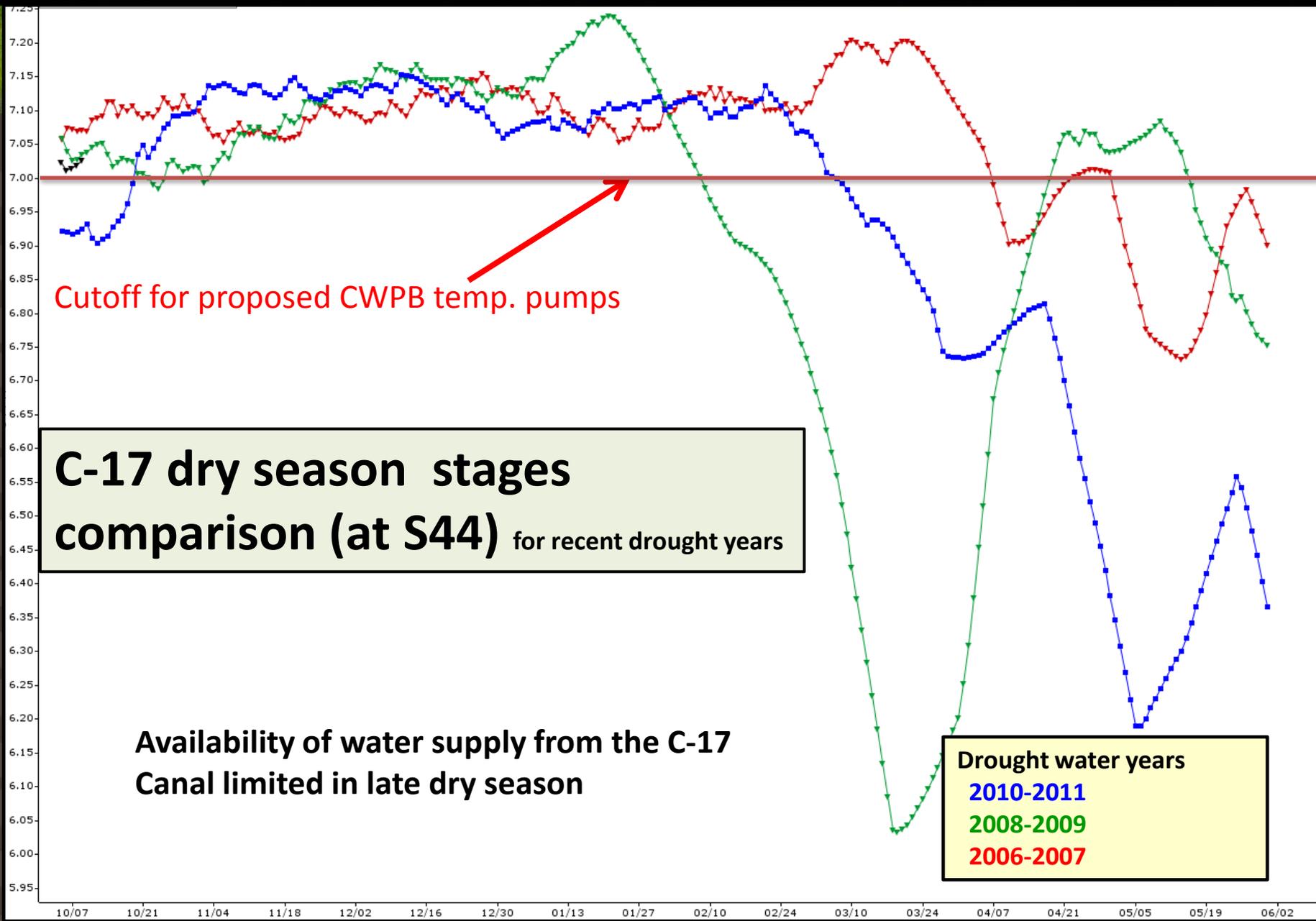


M Canal & C-17 Canal



Location of proposed CWPB temp. pumps

Stage (ft NGVD)



C-17 dry season stages comparison (at S44) for recent drought years

Availability of water supply from the C-17 Canal limited in late dry season

Drought water years
 2010-2011
 2008-2009
 2006-2007

Recommendation

Enter an order authorizing the Executive Director to: 1) investigate the feasibility of the City of West Palm Beach temporarily withdrawing tidal discharges of stormwater from the C-17 Canal to provide water supply relief, and 2) if determined feasible by the District, issue an order authorizing such withdrawal.

C51 Canal & Boyd Structure

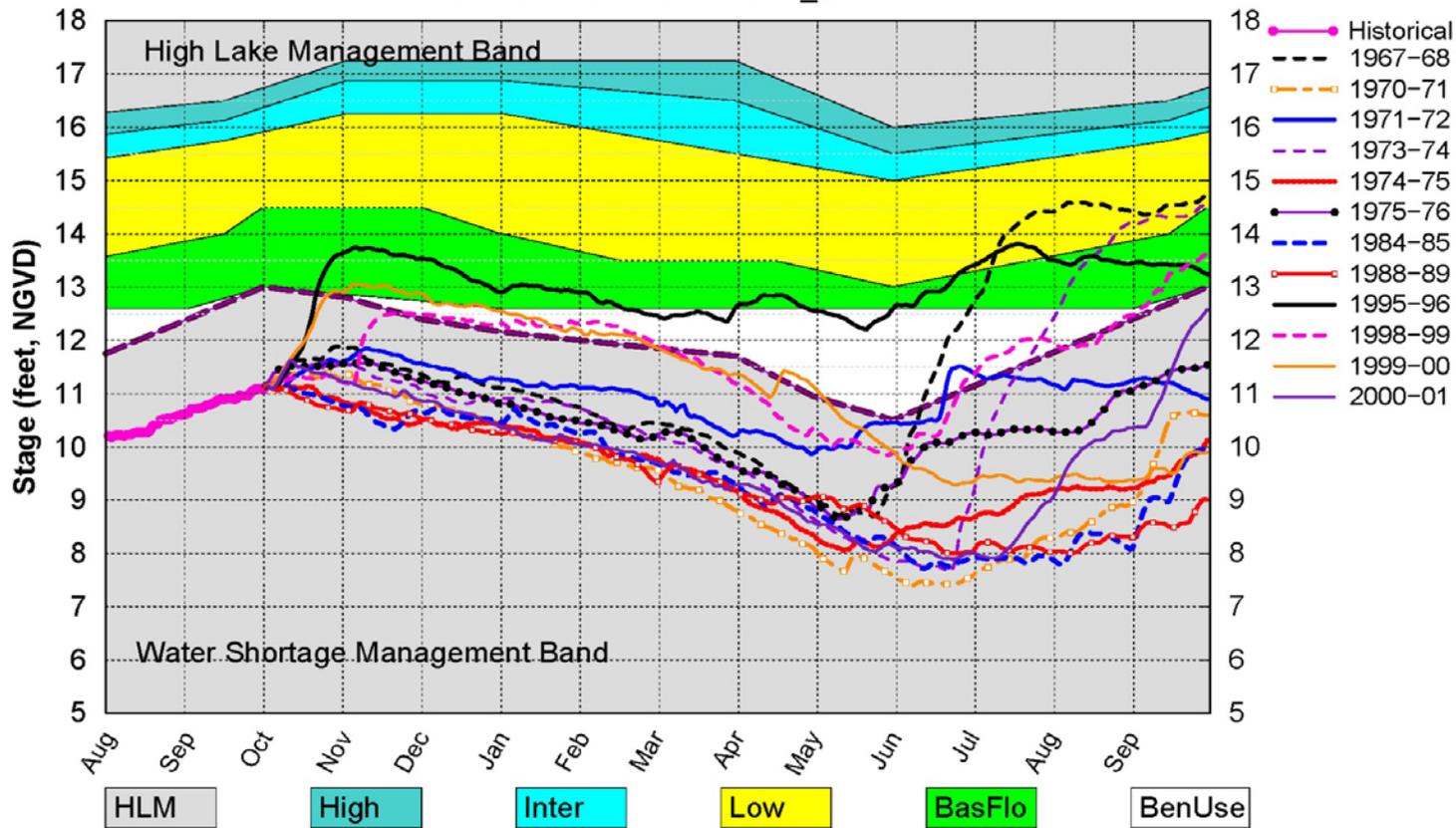


Temporary authorization to divert C-51 stormwater into Clear Lake via the Renaissance Treatment System

Waterview Gage is on Congress Just south of Okeechobee Blvd

Lake Okeechobee SFWMM October 2011 Position Analysis

All La Nina Years Plot PA_V7



(See assumptions on the Position Analysis Results website)

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