

Governing Board Meeting
October 14, 2010

Ecological Conditions Update

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Kissimmee Basin

**Conditions in the Kissimmee Basin
continue to be good**



Lake Okeechobee

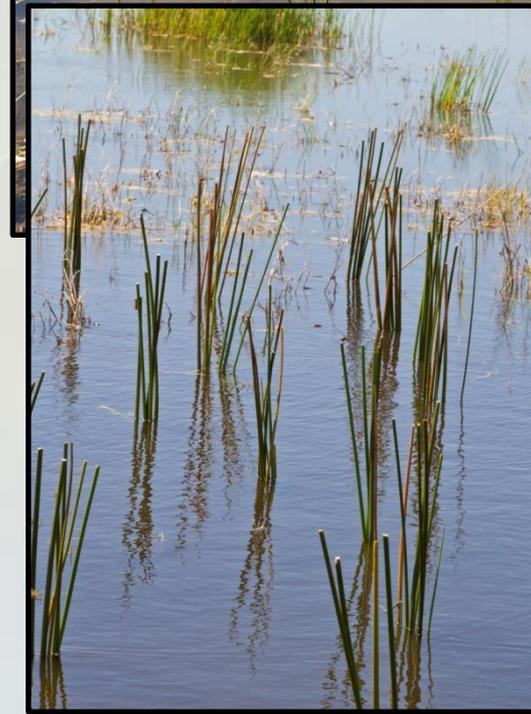
Lemkin Creek Isolated Wetland Restoration Prior to Rehydration



Lemkin Creek Wetland 2 Years Post Rehydration



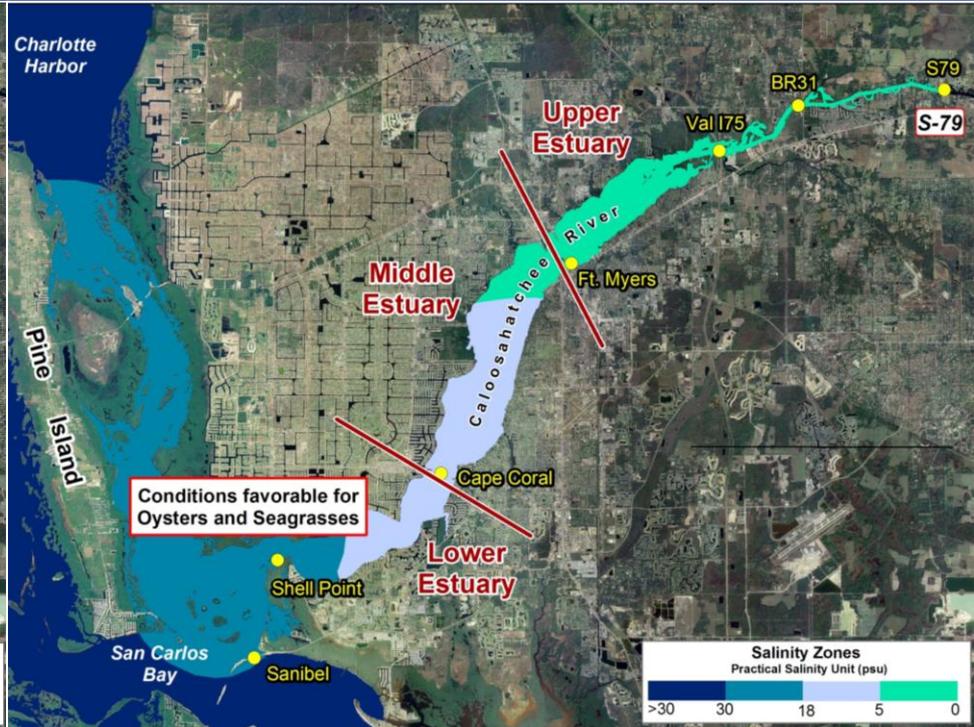
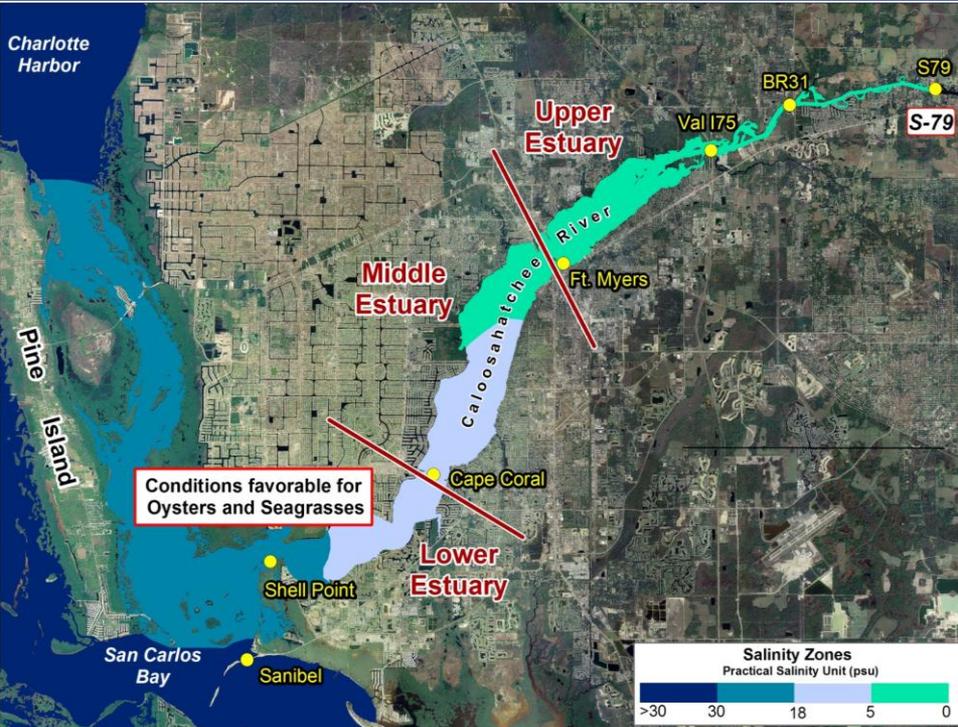
Lake Okeechobee Bulrush Planting



Caloosahatchee Salinity

September, 2010 Conditions

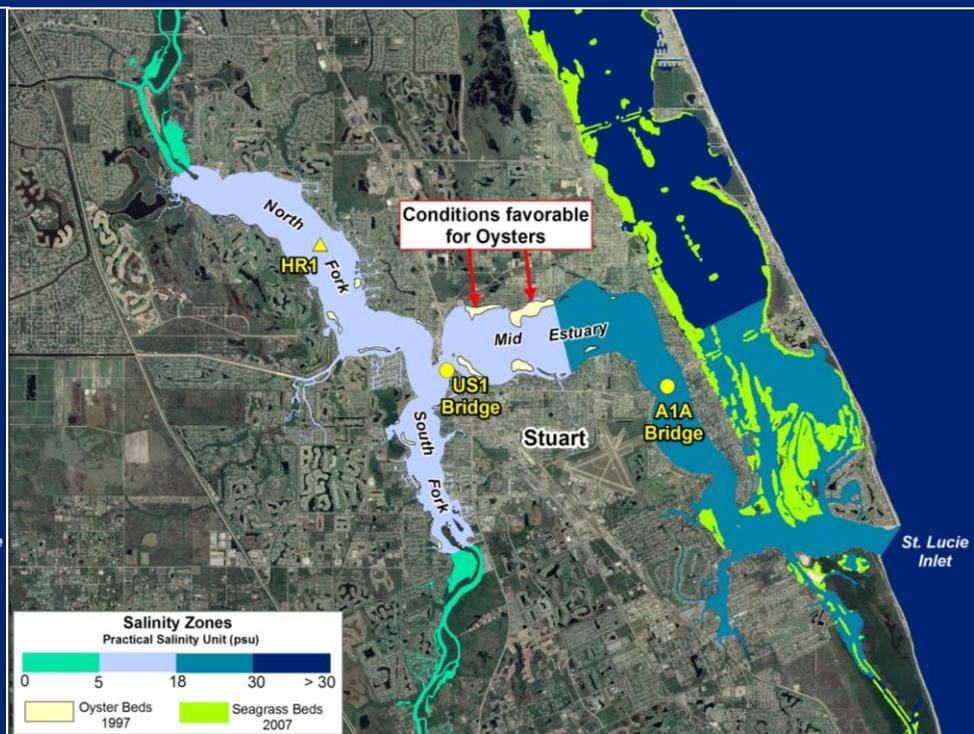
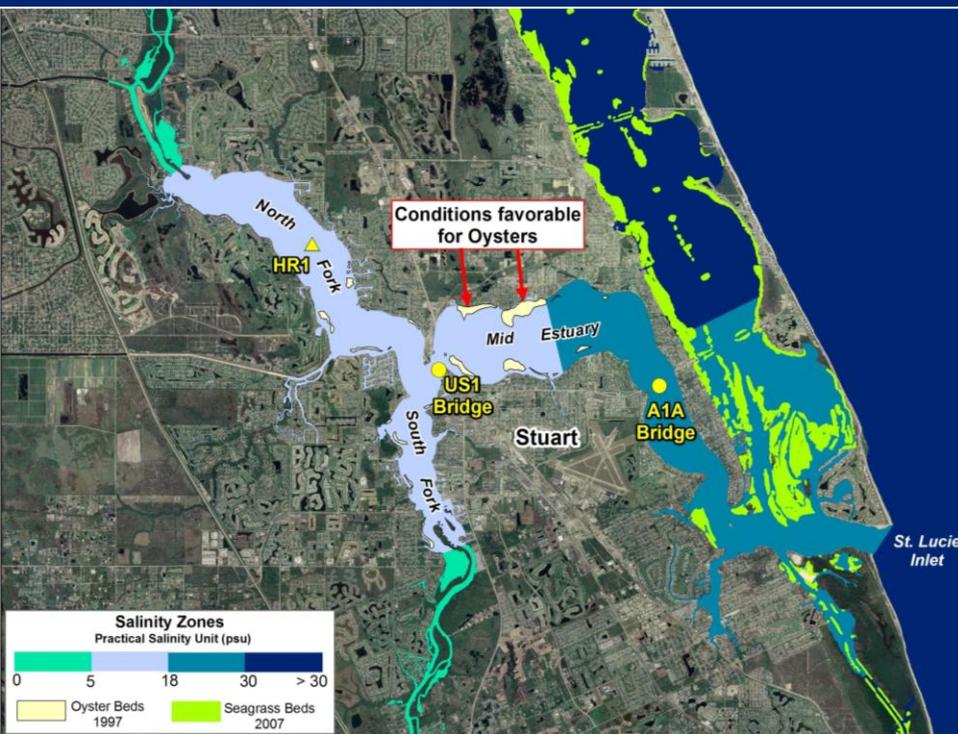
October, 2010 Conditions



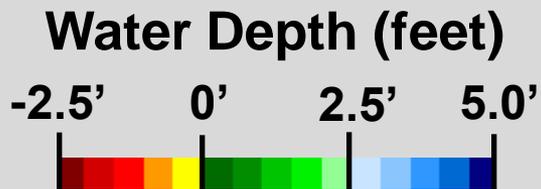
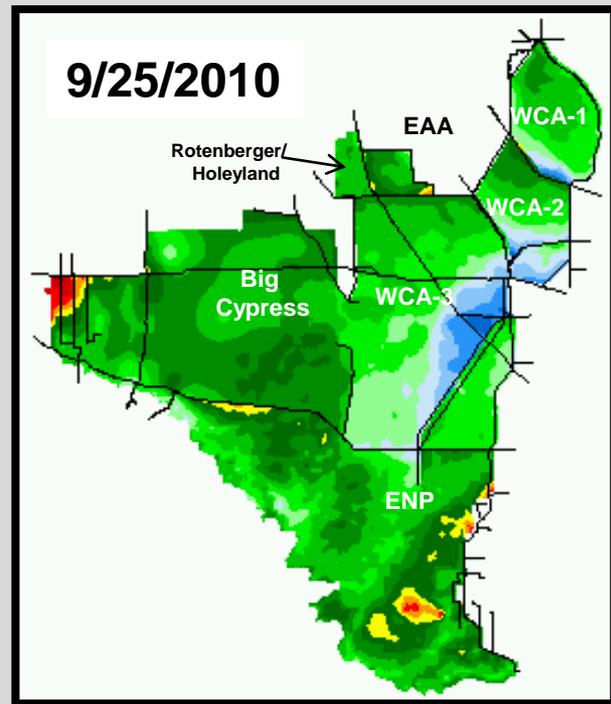
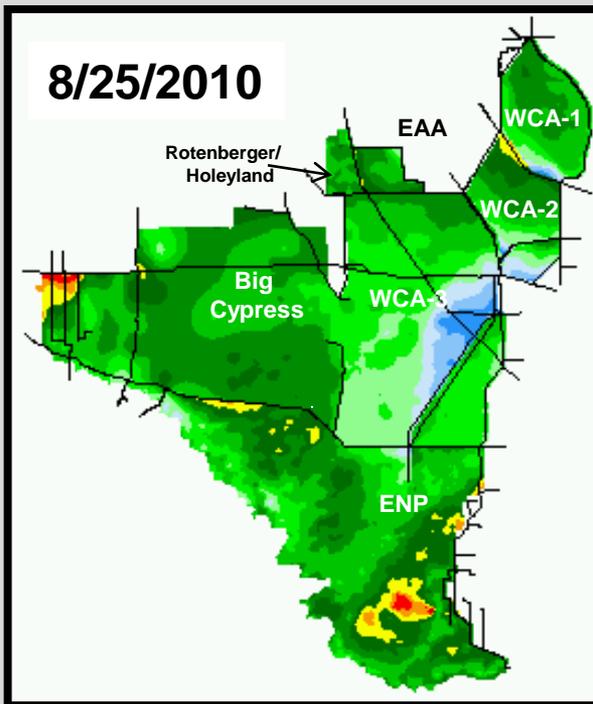
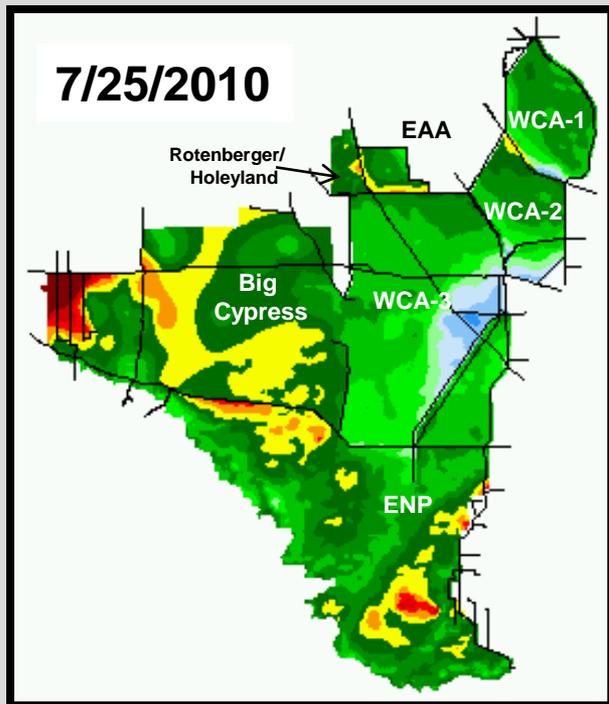
St. Lucie Salinity

September, 2010 Conditions

October, 2010 Conditions



Greater Everglades Water Depth Monthly Snapshots

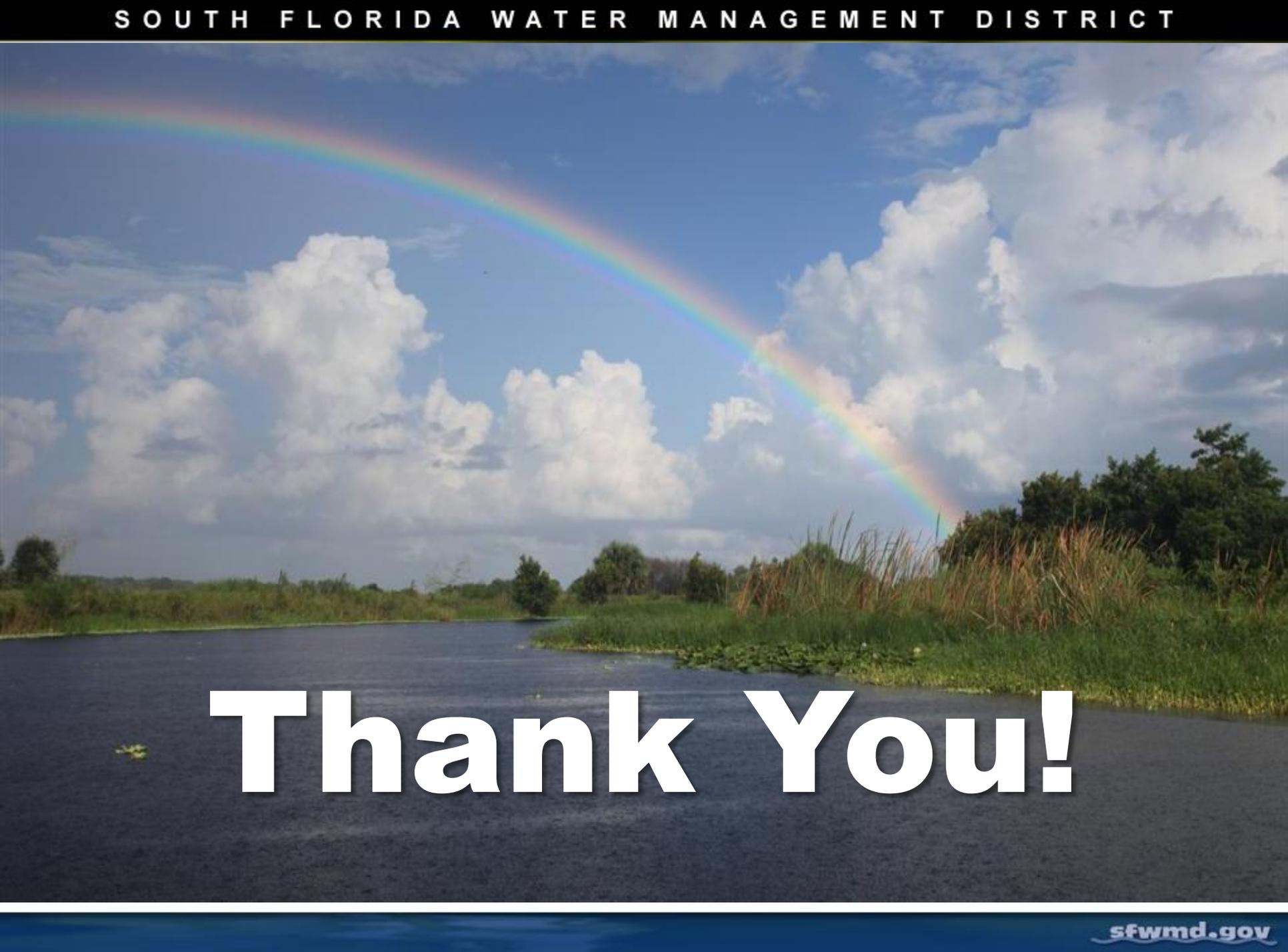


Settlement Agreement Compliance with the Long-Term Limit

For Everglades National Park / Shark River Slough

12-Month Period	Total Flow (kac-ft)	Flow-Weighted Mean TP Concentration (ppb)	Long-Term Limit (ppb) <i>Effective 12/31/2006</i>	Percent of Sampling Events Greater than 10 ppb	
				Guideline	Observed
Oct 2007 - Sep 2008	562.0	10.2	10.2	53.3	70.0
Oct 2008 - Sep 2009	945.3	8.2	8.2	42.7	26.1
*Oct 2009 - Sep 2010	809.8	8.9	8.9	46.1	50.0

***2010 Numbers are Provisional**



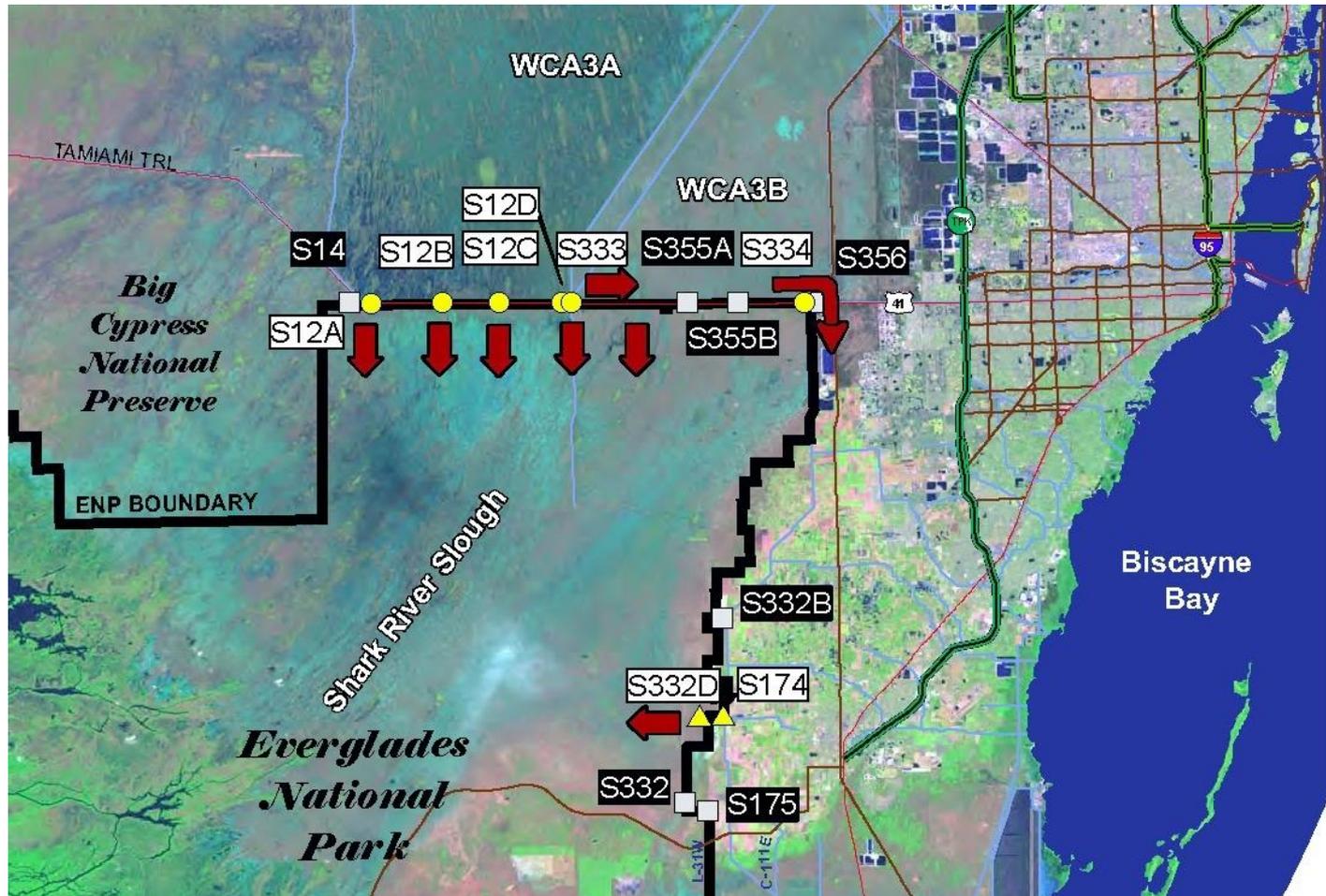
Thank You!

Executive Summary

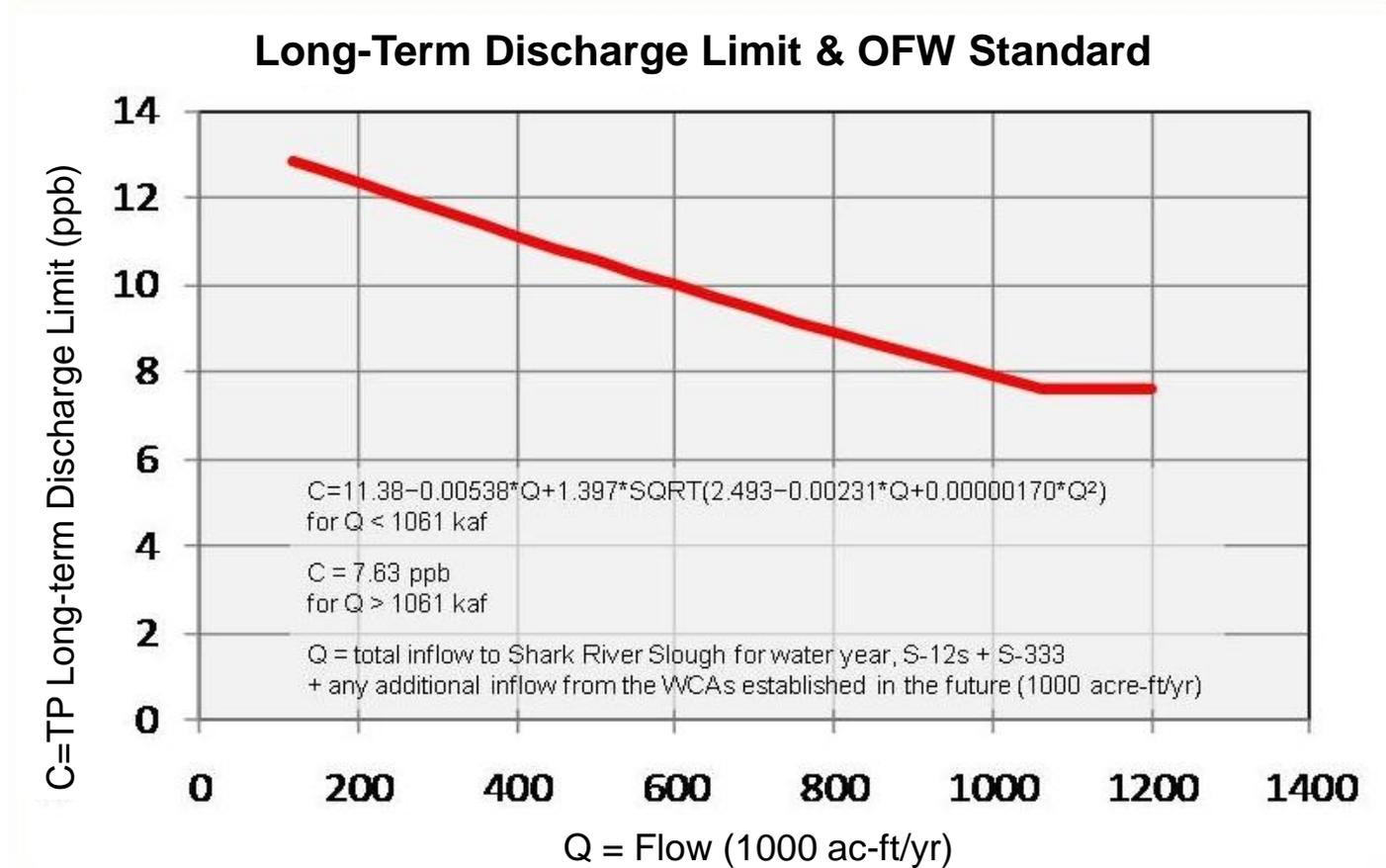
- **Kissimmee** – Lower Kissimmee Basin; wading birds using drying pools as water depths in the upper Kissimmee River floodplain decline; DO concentration in the Phase I river channel has remained above the level of concern.
- **Lake Okeechobee** – Restoration progress made in Lemkin Creek Isolated Wetland Restoration project; 13,000 bulrush plantings to create a plant nursery for future restoration activities.
- **Caloosahatchee Estuary** – Salinity recovered quickly after high watershed runoff in late August; salinity conditions in the upper Estuary are favorable for tape grass; salinity conditions in the Lower Estuary and San Carlos Bay are favorable for oysters and seagrasses
- **St. Lucie Estuary** – minimum lake releases and low basin runoff, so salinity conditions remain good for oysters and seagrasses
- **Everglades** - typical seasonal increases in water depths, but conditions remain favorable for Tree Islands

Limit Reflects Total Flow

Five structures are monitored (S12A, B, C, D, and S333) for flow-weighted mean phosphorus of total flow



SRS Long-Term Limit



**Everglades restoration will increase total flow
and decrease typical limit value**