

May 2010 Update on STA Performance and Ongoing Enhancement Efforts

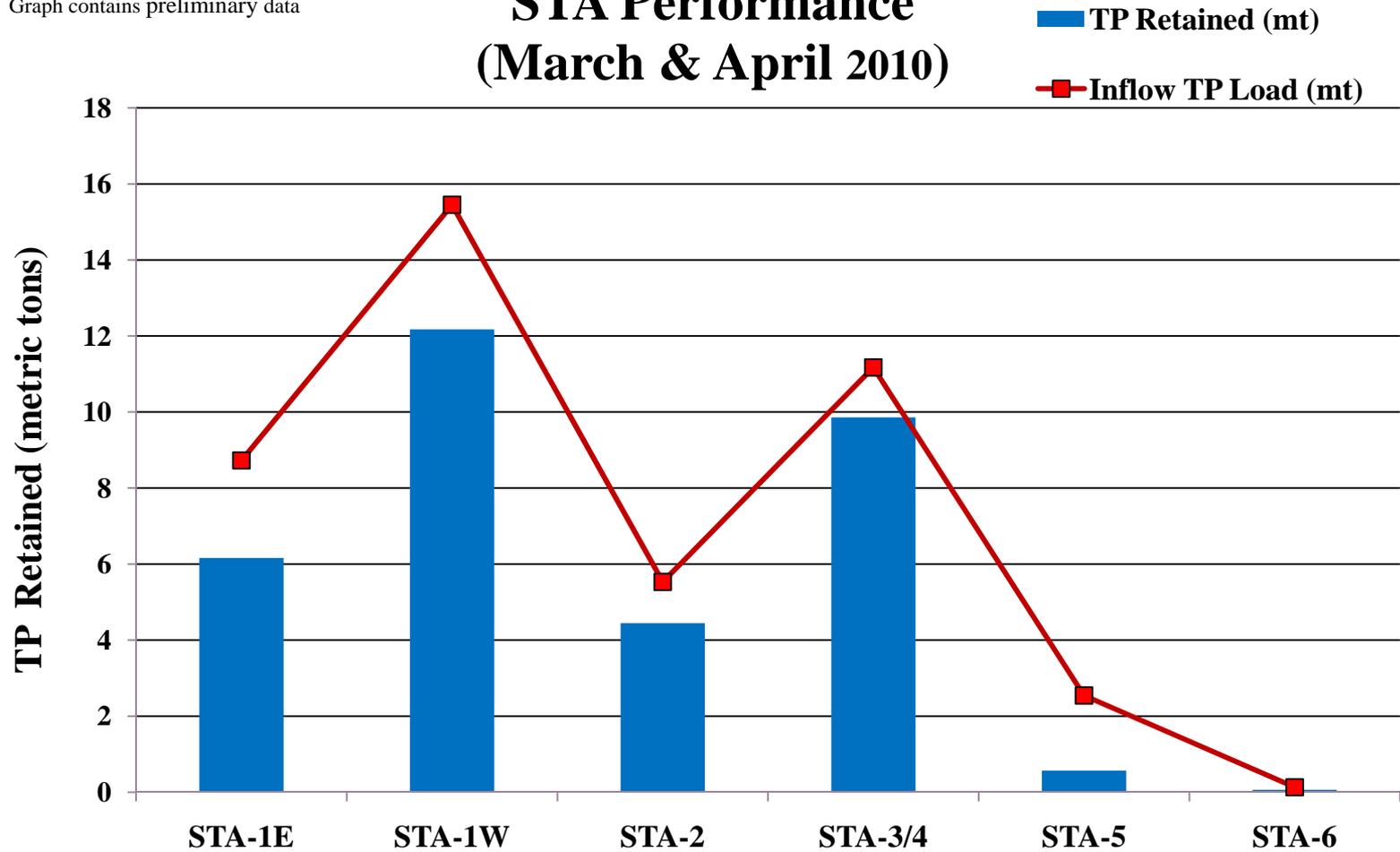
*Technical Oversight Committee Quarterly Meeting
May 18, 2010*

*Lou Toth
Chief Scientist
Vegetation Management Division*



Graph contains preliminary data

STA Performance (March & April 2010)

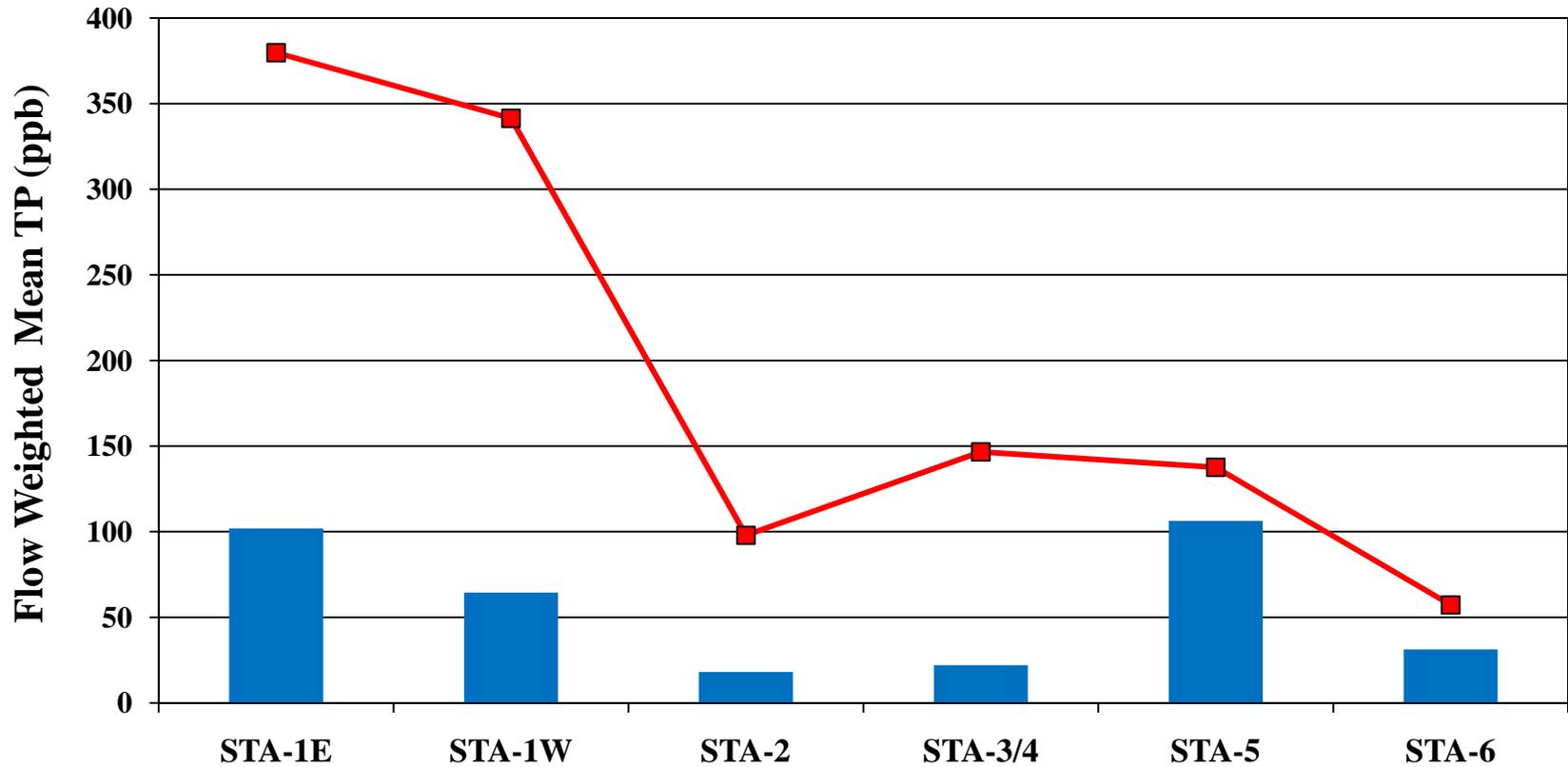


Graph contains preliminary data

STA Performance (March & April 2010)

Outflow TP (ppb)

Inflow TP (ppb)



SOUTH FLORIDA WATER MANAGEMENT DISTRICT
**Short-circuit through hydrilla and vegetation strips in Cell 1B of
STA5**



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Short circuit along western side of Cell 5 in STA 1E



Bioengineering



Cattail bales across hydraulic short circuit in Cell 5 of STA 1E





**Bulrush transplanted in short circuit in Cell 5 of STA1E –
downstream of cattail bales**



Degradation of berm along outflow canal of Cell 5 of STA 1E



Uprooted hydrilla accumulation at outflow structure - Cell 6



11/19/2009

**Transplanted bulrush and cattail in gaps of vegetation strip in
Cell 6 of STA1E**



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Initiation of Collaborative Study with Renowned Treatment Wetland Ecologist (Dr. William J. Mitsch)

Objective: Minimize outflow phosphorus concentrations from STAs with new treatment pathways for removing recalcitrant (dissolved organic and particulate) phosphorus fractions



Blumberg Road



Cell 1A

Cell 1B

Cell 2A

Cell 2B

Cell 3A

Cell 3B

L-3W

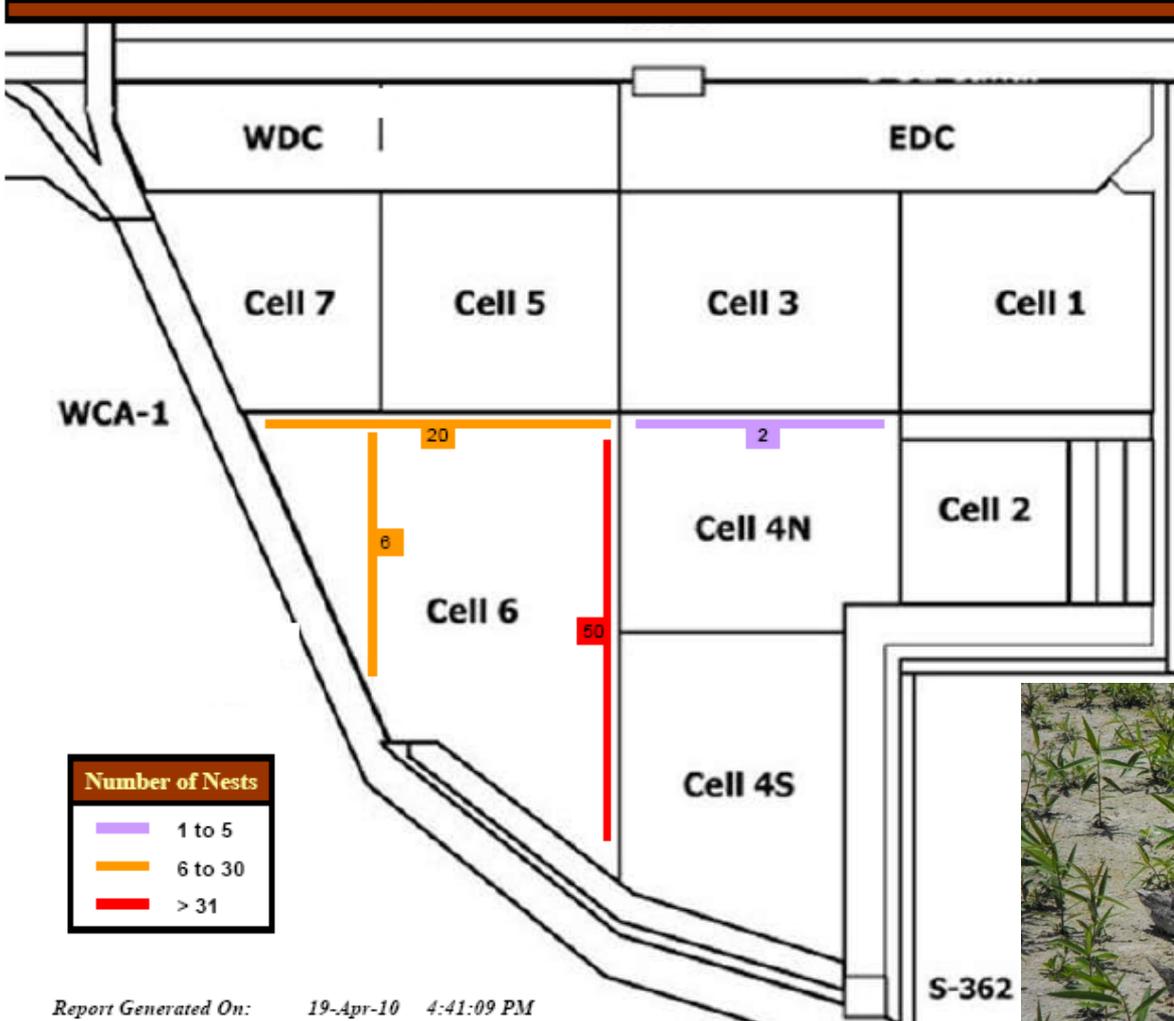
L-3



Monthly Survey

April 2010

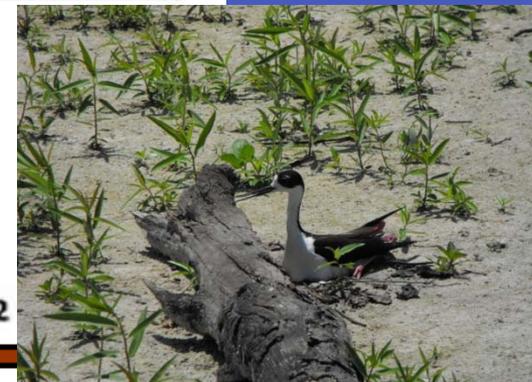
STA-1E Levee Survey: Internal Nest Count - Black-Necked Stilt*



April Survey
STA-1E = 78 nests

STA-1W = 5 nests

STA-3/4 = 1 nest



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Ongoing STA Enhancement Measures

- *Pilot bioengineering project to block short-circuit in Cell 5 of STA 1E*
- *Bulrush planting in short-circuit in Cell 5 of STA 1E, in vegetation strips in Cell 1B of STA 5 and Cell 6 of STA 1E, and in open areas in Cell 1A of STA 5 and Cell 1A of STA 3/4*

