

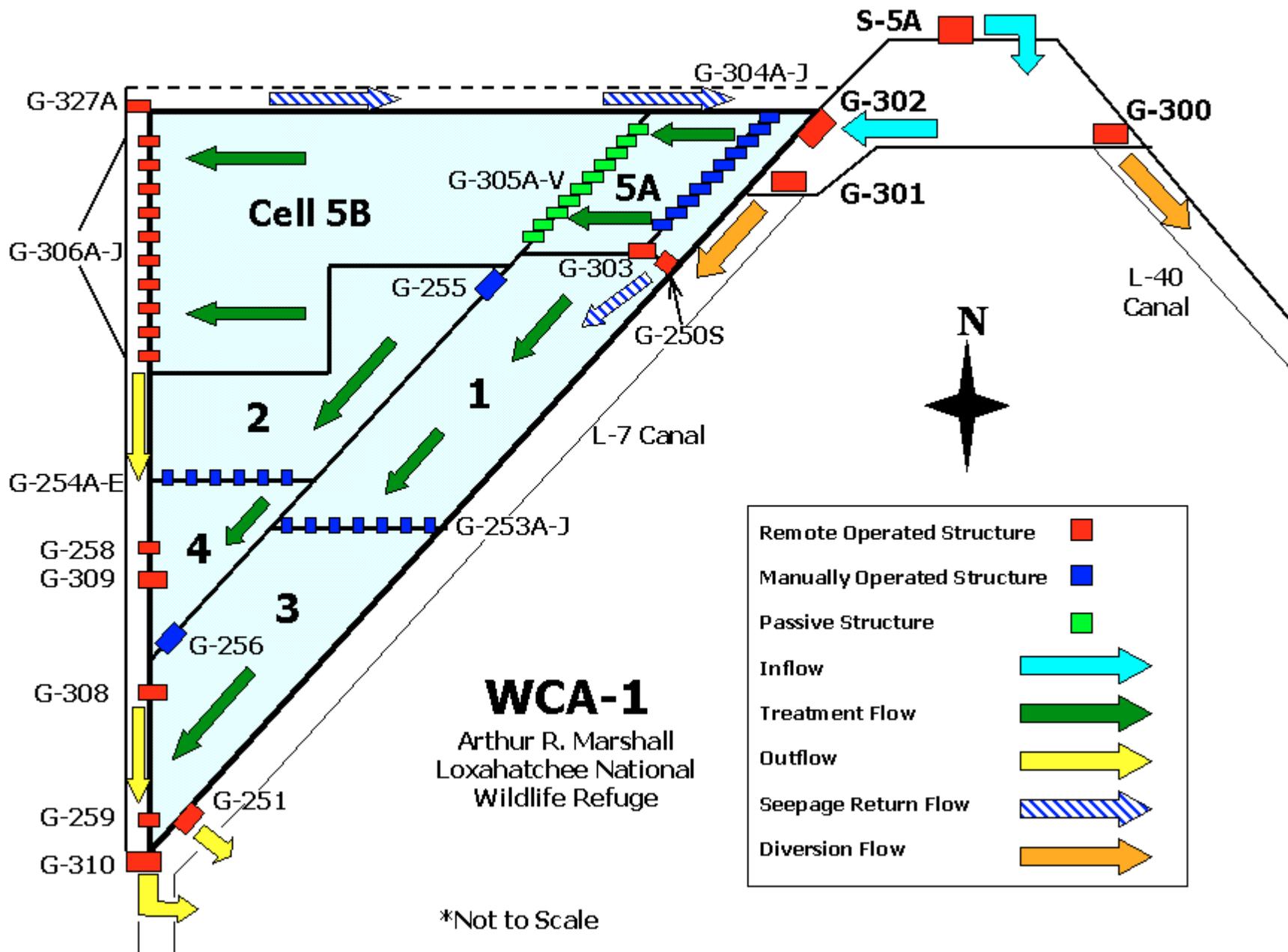
STA-1W Adaptive Management and Recovery Plan for STA-1W

Everglades Division



sfwmd.gov

STA-1W Structures & Flow*

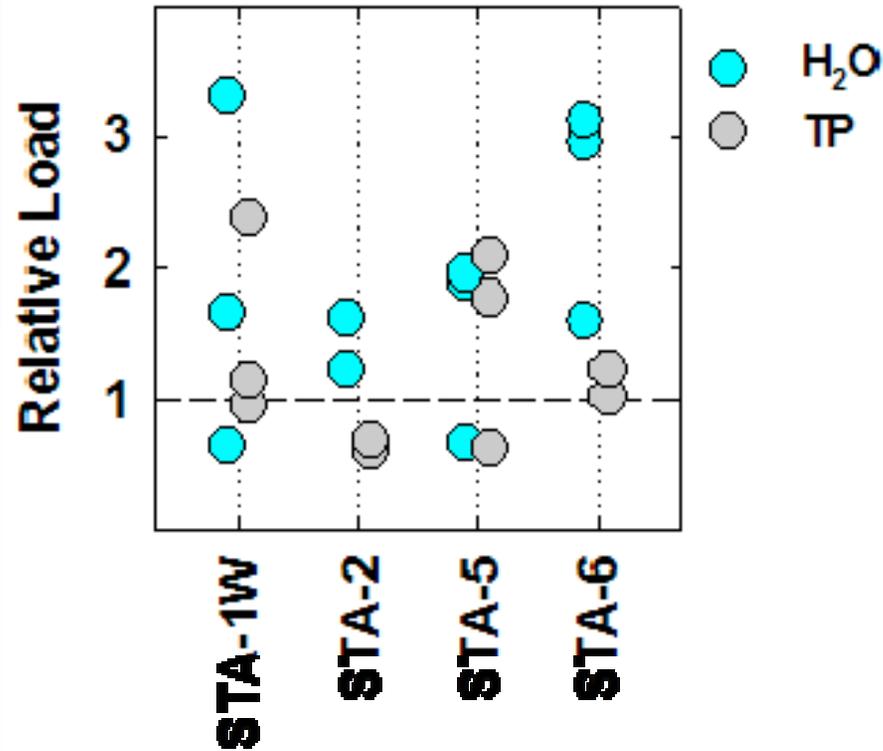


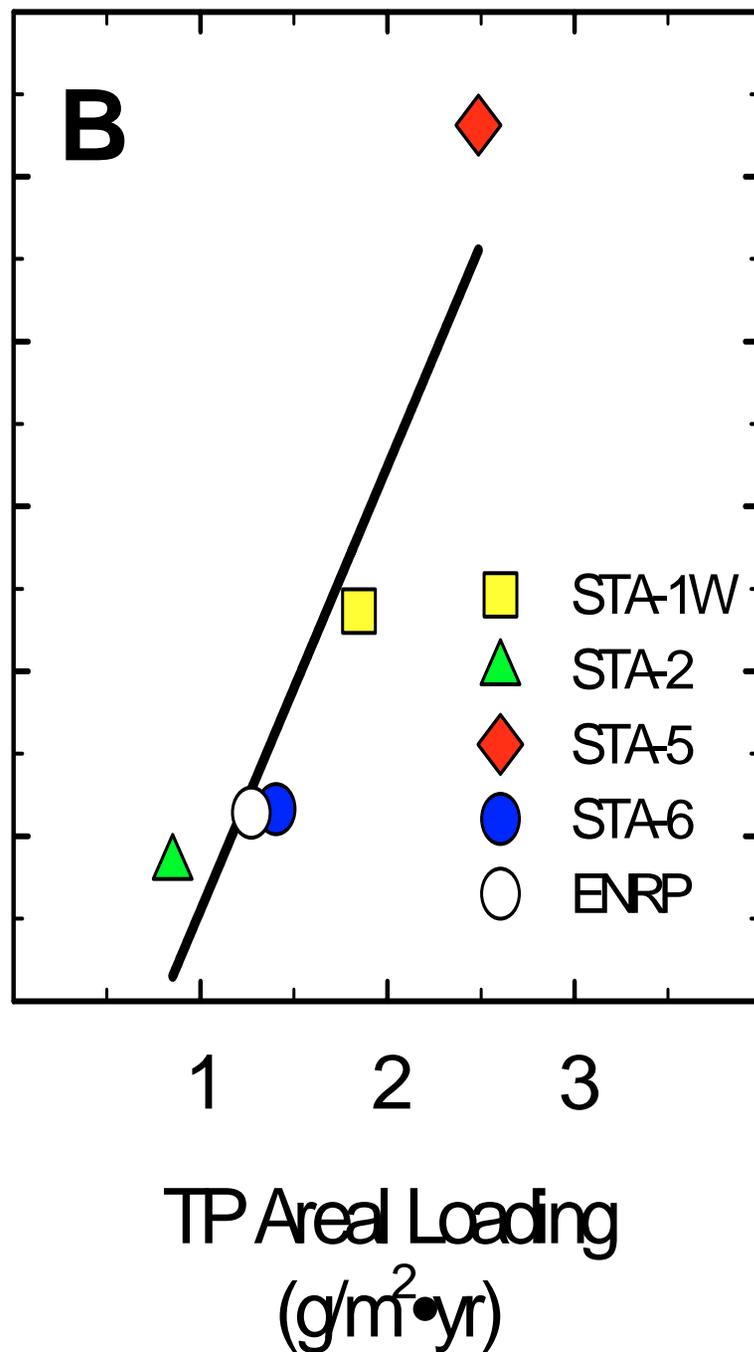
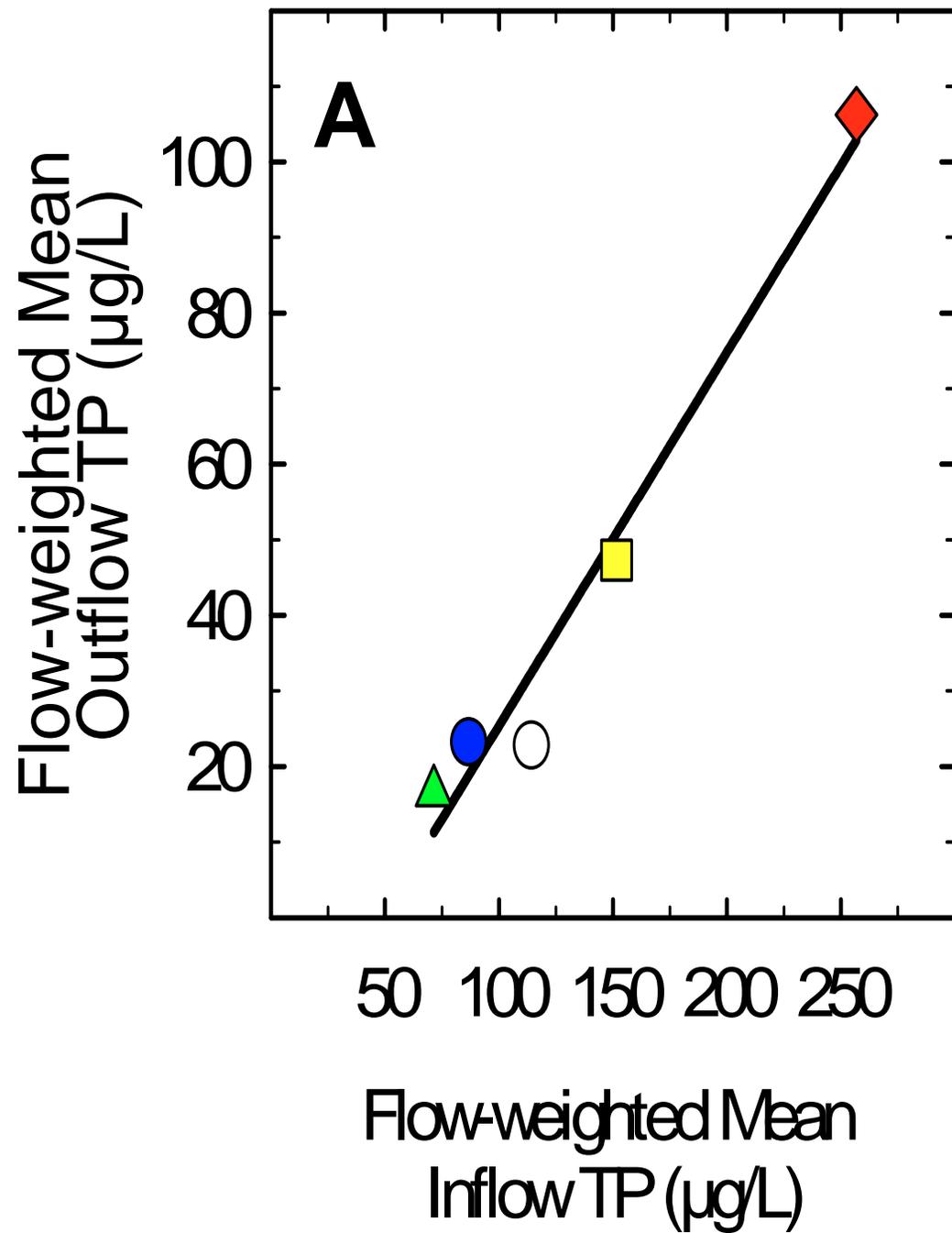
Design Envelope

Table 1. Revised design parameters for STA-1W.

	Peak Flow cfs	Average Flow acre-feet/yr	TP Conc ppb	Average Hydraulic Loading Rate cm/d	Peak Hydraulic Loading Rate cm/d	Average Nutrient Loading Rate g/m ² /yr
Inflow	3,250	159,985	139	2.00	29.46	1.01
Outflow	3,490	188,100	24-30			

STA Relative Loads





Design vs. Actual

■ FLOW

- Mean annual design inflow of 160,000 ac-ft.
- 109,912 ac-ft loaded in September 2004, 65% of the annual design loading rate

■ TP Concentration

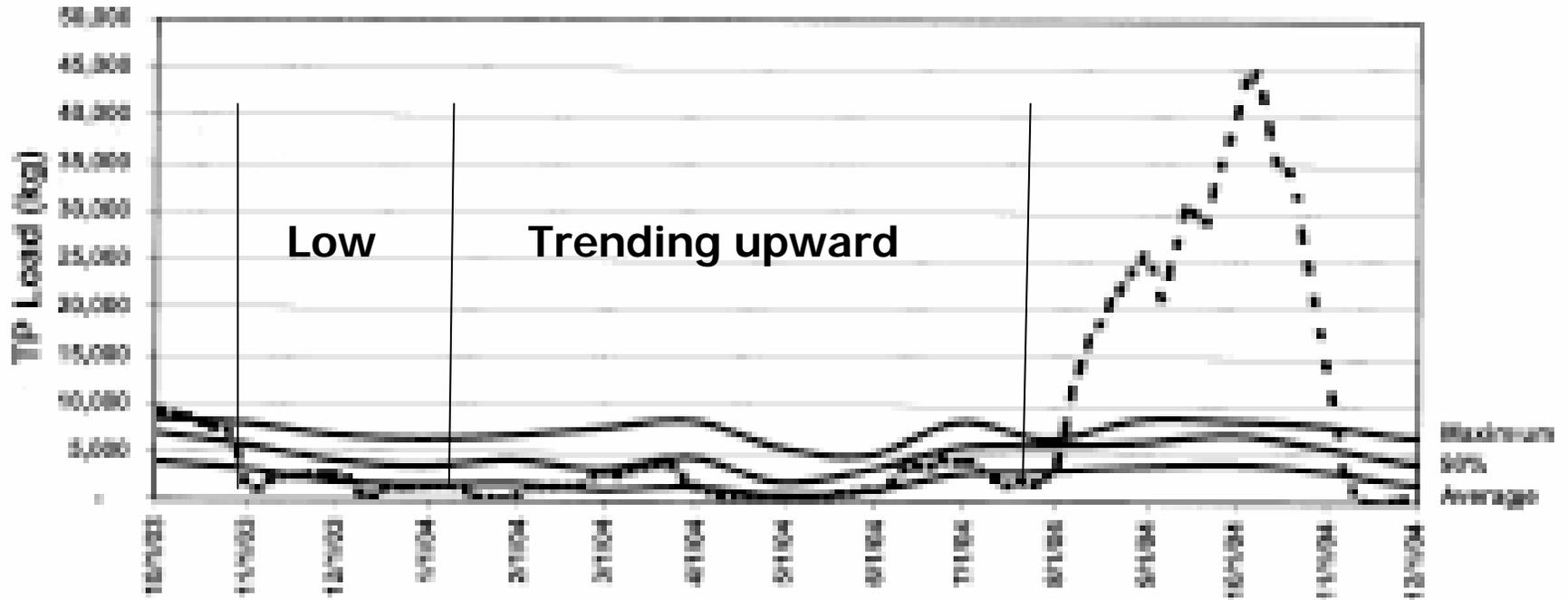
- Mean design assumption of 139 ppb
- May 1994 through September 2004 flow-weighted mean inflow TP concentration of 151 ppb
- Mean TP inflow concentrations during September 2004 of 296 ppb

STA1W 12-Month Rolling Total Phosphorus Load Reduction
Preliminary Data



STA-1W

30-day Cumulative vs. Design Envelope



STA-1W Recovery Plan

- Provide a methodology and time scale to restore and enhance the nutrient removal performance of the STA-1W.
 - Achieved through hydrologic control, construction of enhancements, vegetation management, monitoring and assessment, and continued communication with stakeholders
 - Monitoring and assessment of the performance data will occur throughout this recovery period in order to provide operational guidelines and promote adaptive management decisions throughout the recovery process