

SETTLEMENT AGREEMENT REPORT

April – June 2013

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Water Quality Bureau

Technical Oversight Committee
April 1, 2014

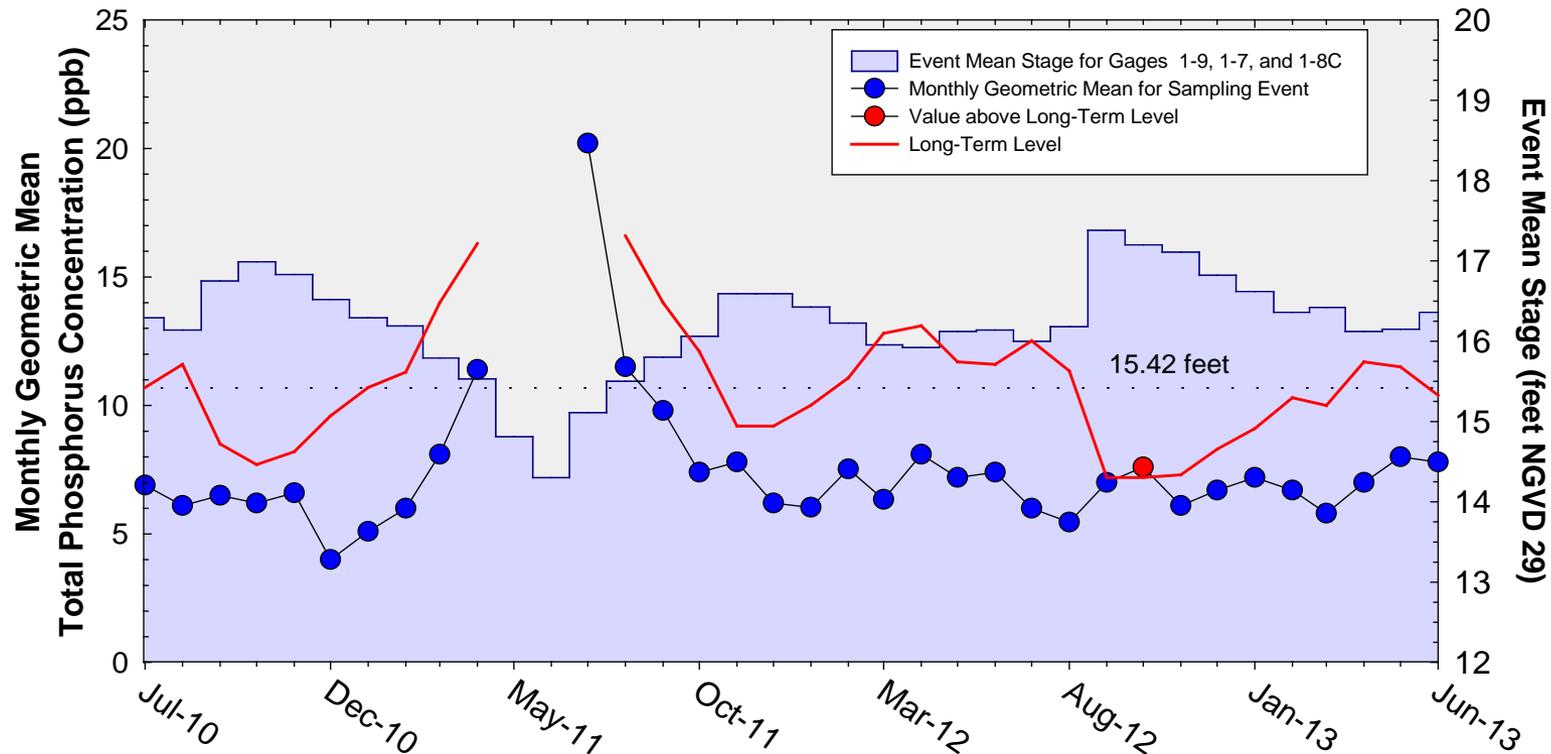


SUMMARY

Month	Geometric Mean TP Concentration (ppb)	Long-term Level (ppb)	Mean Stage (feet NGVD 29)	Number of Samples	
Arthur R. Marshall Loxahatchee National Wildlife Refuge					
Apr 2013	7.0	11.7	16.12	11	
May 2013	8.0	11.5	16.15	10	
Jun 2013	7.8	10.4	16.36	12	
12-Month Period Ending	Total Flow (kac-ft)	12-Month Flow-weighted Mean TP Concentration (ppb)	Long-term Limit (ppb)	Percent of Sampling Events Greater than 10 ppb	
				Guideline	Observed
Everglades National Park – Shark River Slough					
Apr 2013	The quarterly flow and TP data for this Table is posted separately on the TOC web site. Annual results will be published in this report for the 12-month flow-weighted mean TP concentration for the federal water year ending on September 30 when the final approved flow data is available.				
May 2013					
Jun 2013					
Everglades National Park – Taylor Slough and Coastal Basins					
Apr 2013	282.4	5.0	11.0	53.1	1.6
May 2013	263.5	5.1	11.0	53.1	1.6
Jun 2013	260.4	5.0	11.0	53.1	1.5

A.R.M Loxahatchee National Wildlife Refuge

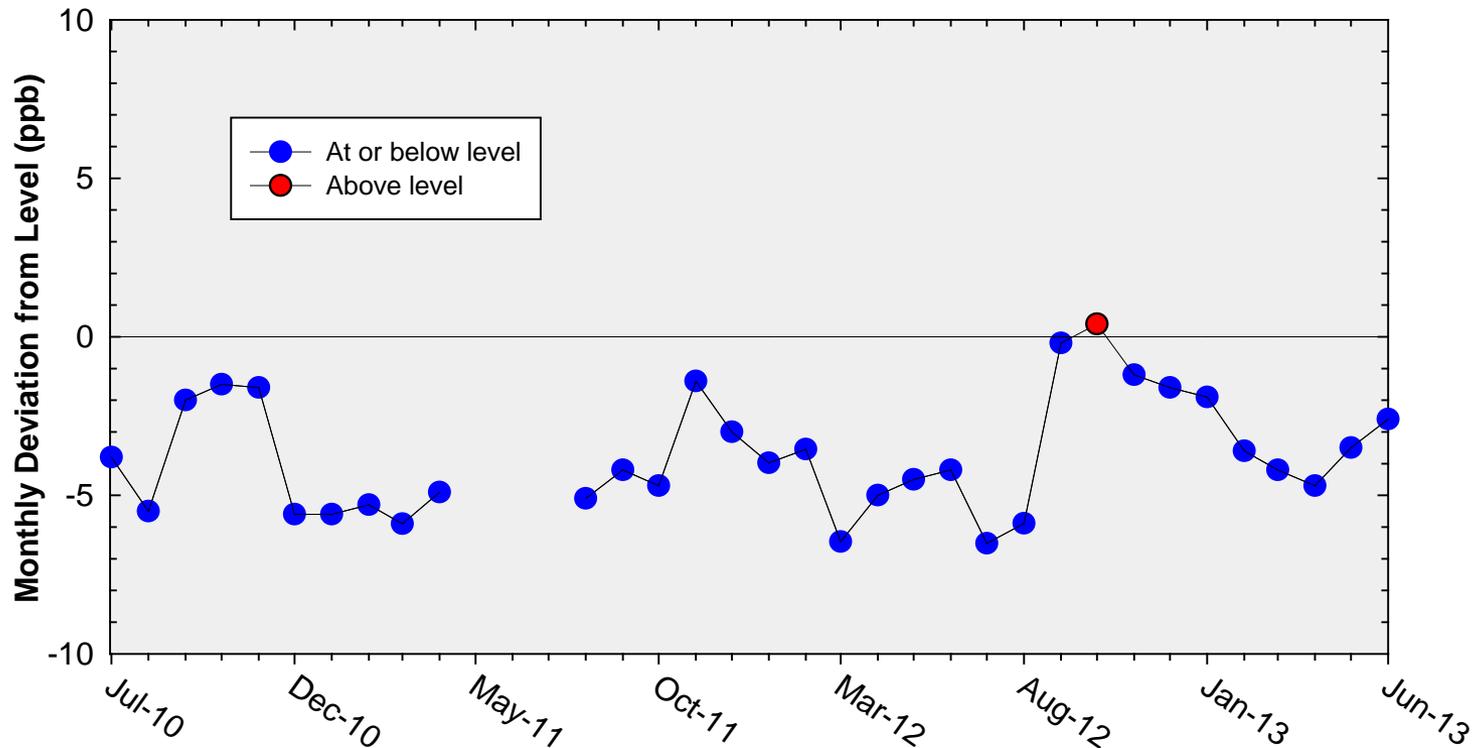
Monthly Total Phosphorus Geometric Mean Concentrations



Note: Long-term level was not applicable for May 2011, June 2011, and July 2011 (sampling day average stages < 15.42 ft).

A.R.M Loxahatchee National Wildlife Refuge

Deviation of monthly geometric mean total phosphorus concentrations with calculated long-term levels

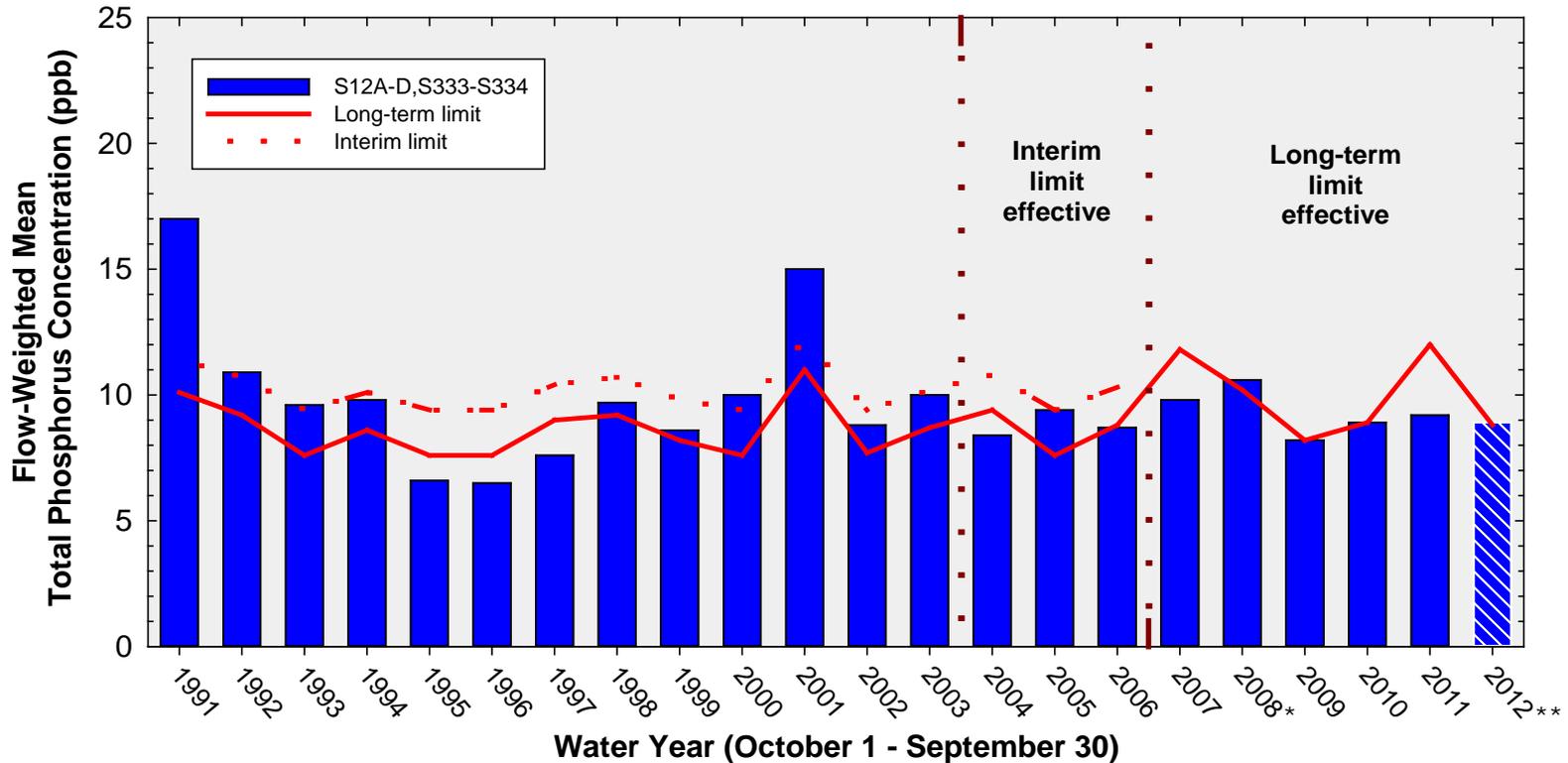


Note: Long-term level was not applicable for May 2011, June 2011, and July 2011 (sampling day average stages < 15.42 ft).

Refuge TP Compliance Tracking For April 2013 – September 2013

Month	Geometric Mean TP Concentration (ppb)	Long-Term Level (ppb) Effective 12/31/2006	Average Stage (feet NGVD 29)	Number of Samples
Apr-2013	7.0	11.7	16.12	11
May-2013	8.0	11.5	16.15	10
Jun-2013	7.8	10.4	16.36	12

Annual Flow-weighted Mean Concentrations Inflows to ENP through Shark River Slough



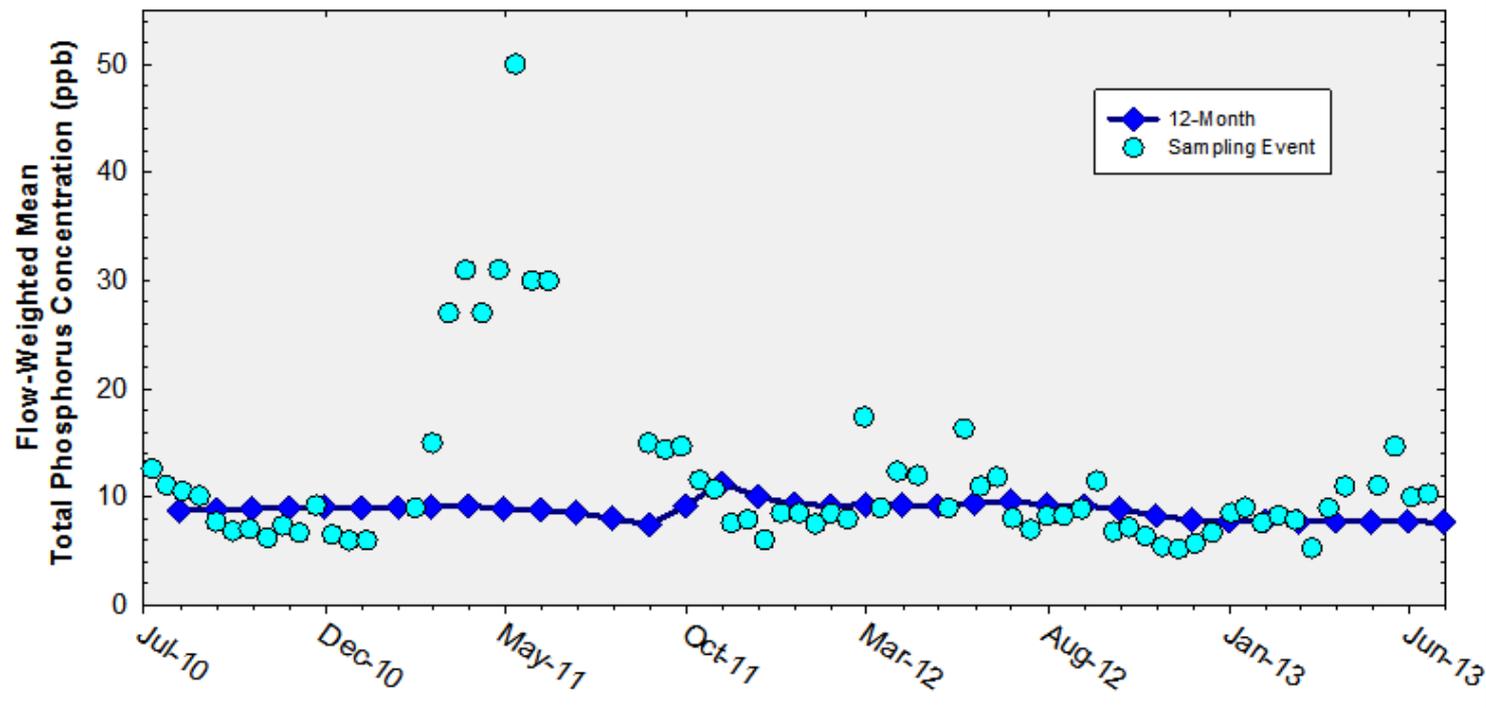
12-month FWMC at the end of each water year compared to the TP interim and long-term limits

* TOC determined WY2008 exceedance did not constitute a violation of the long-term limit.

** WY2012 FWMC was 8.9 ppb without the resampled datum, and 8.8 ppb with the resampled datum. The long-term limit was 8.8 ppb.

Flow-Weighted Mean Concentrations Inflows to ENP through Shark River Slough

(October 2012 – June 2013 Flow Data for S12s are Provisional)



12-month FWMC at the end of each month and the composite TP concentration for each sampling event

Shark River Slough

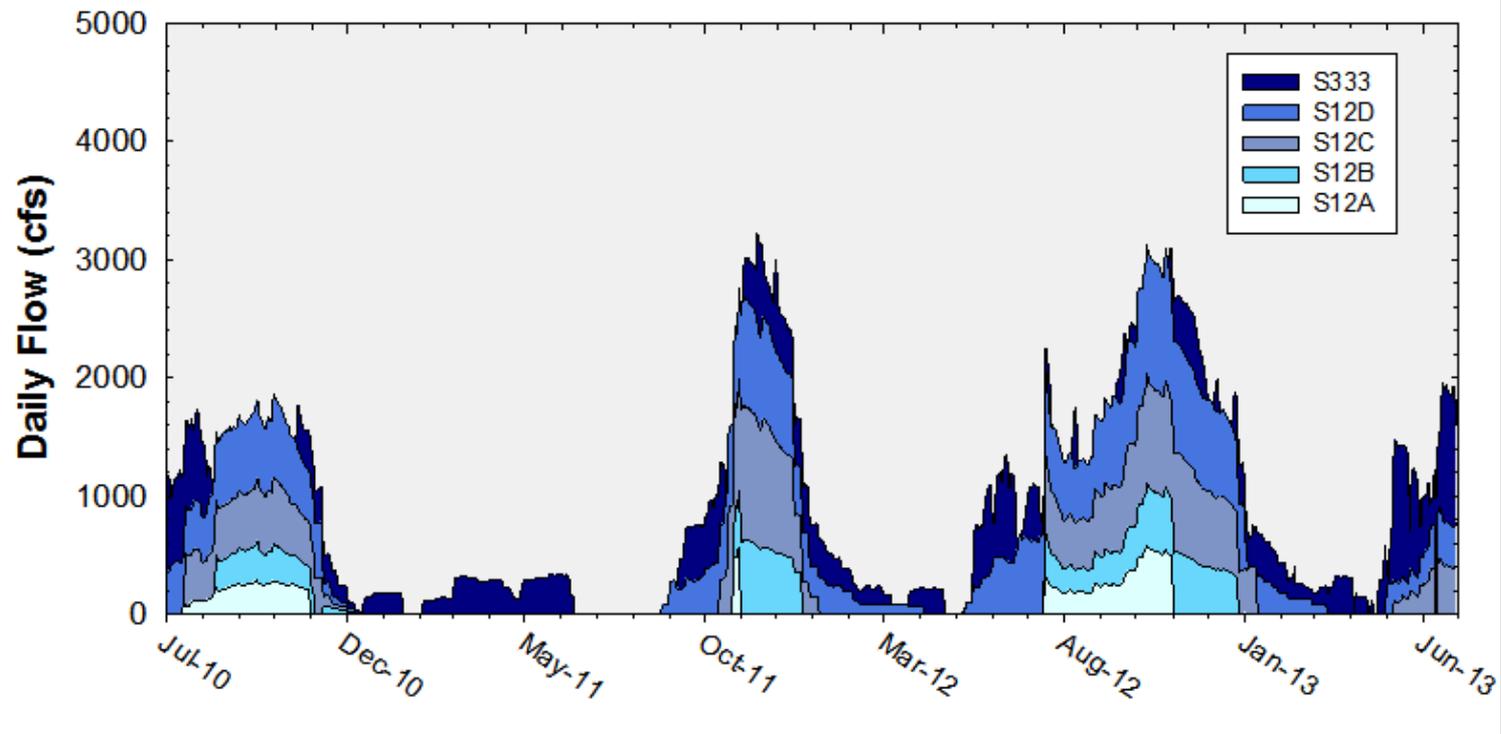
TP Concentration Compliance Interim Tracking for April 2013 – June 2013

(October 2012 – June 2013 Flow Data for S12s are Provisional)

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
May 2012 - Apr 2013	890.9	7.7	8.5	44.0	20.0
Jun 2012 - May 2013	929.1	7.7	8.3	43.1	24.0
Jul 2012 - Jun 2013	957.4	7.7	8.1	42.4	20.0

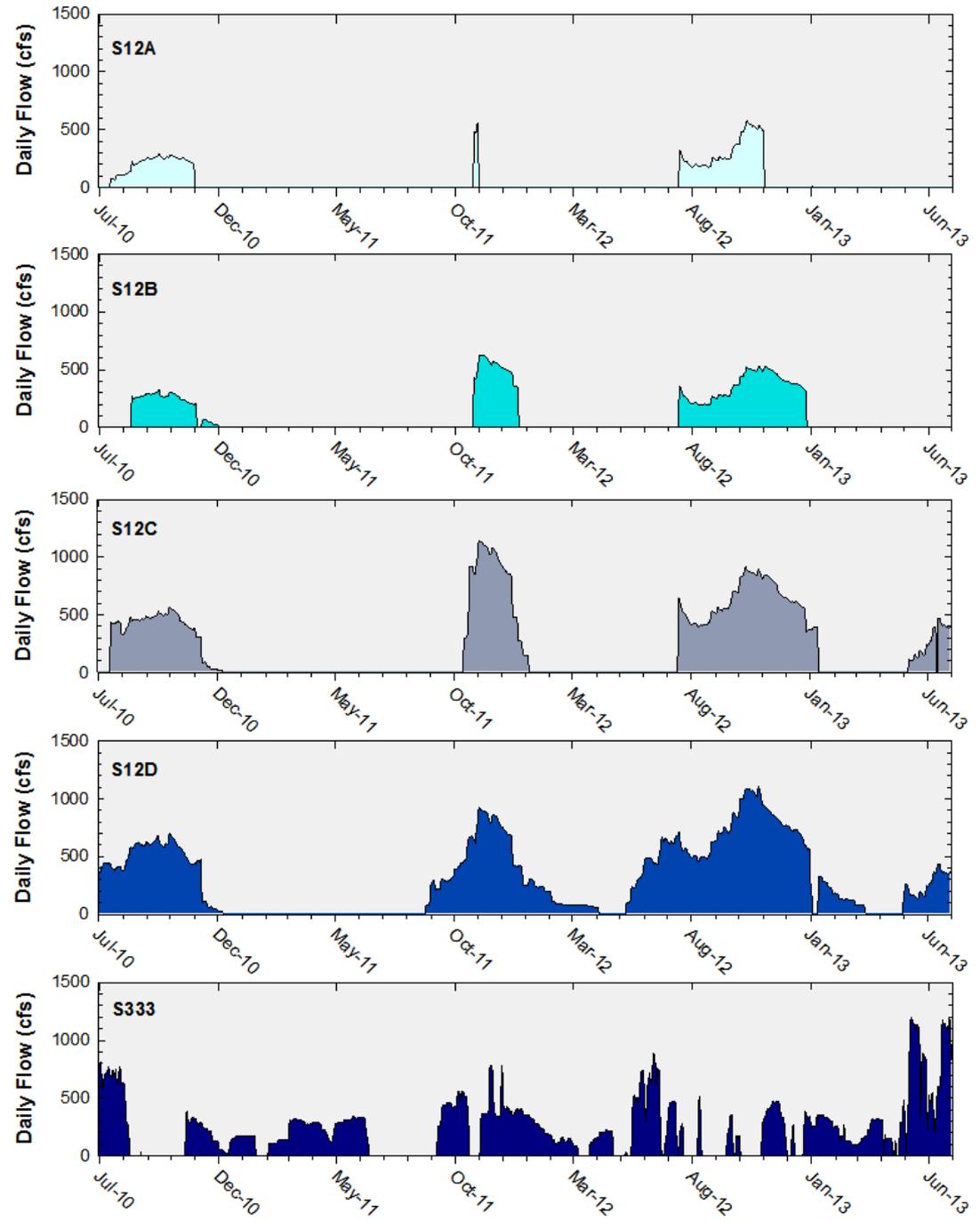
Shark River Slough Daily Flows

(October 2012 – June 2013 Flow Data for S12s are Provisional)

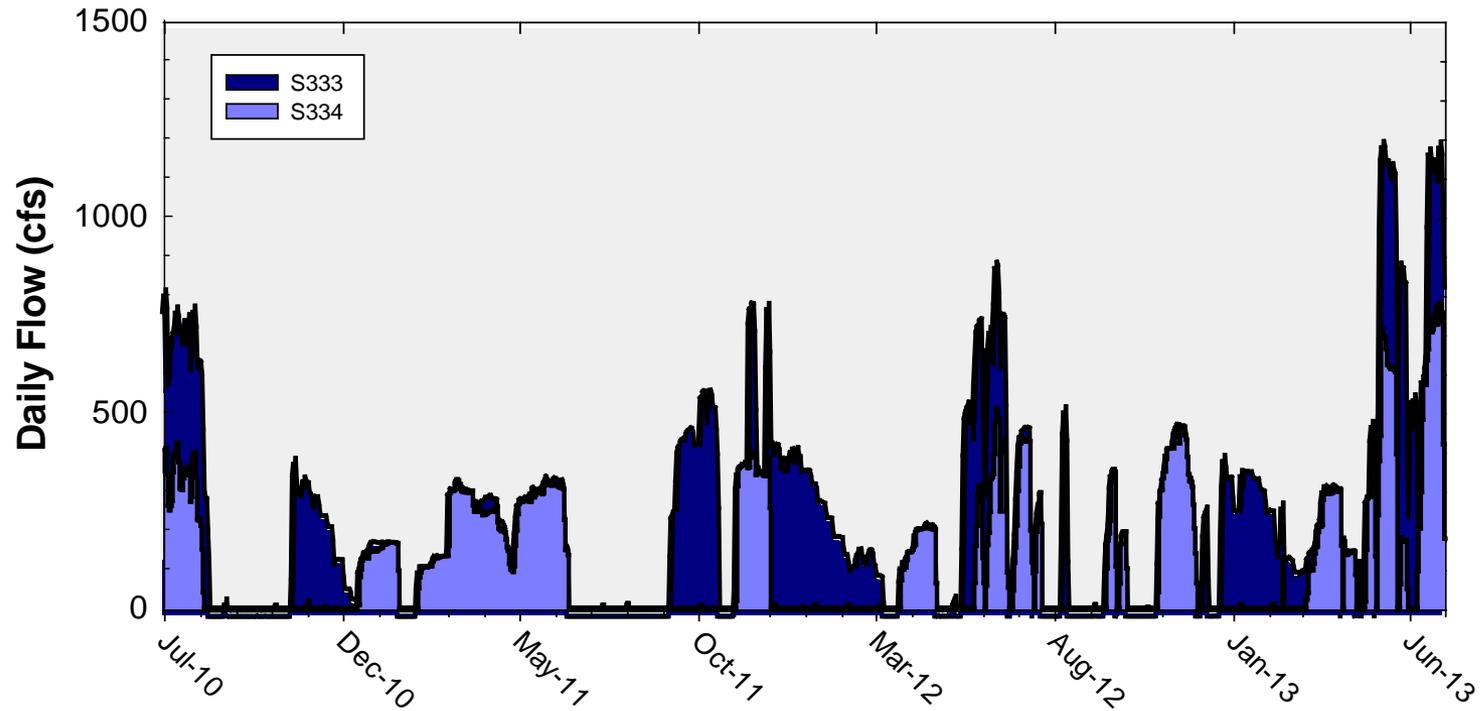


Daily Flows at individual inflow structures to Shark River Slough

(October 2012 – June 2013 Flow Data for S12s are Provisional)

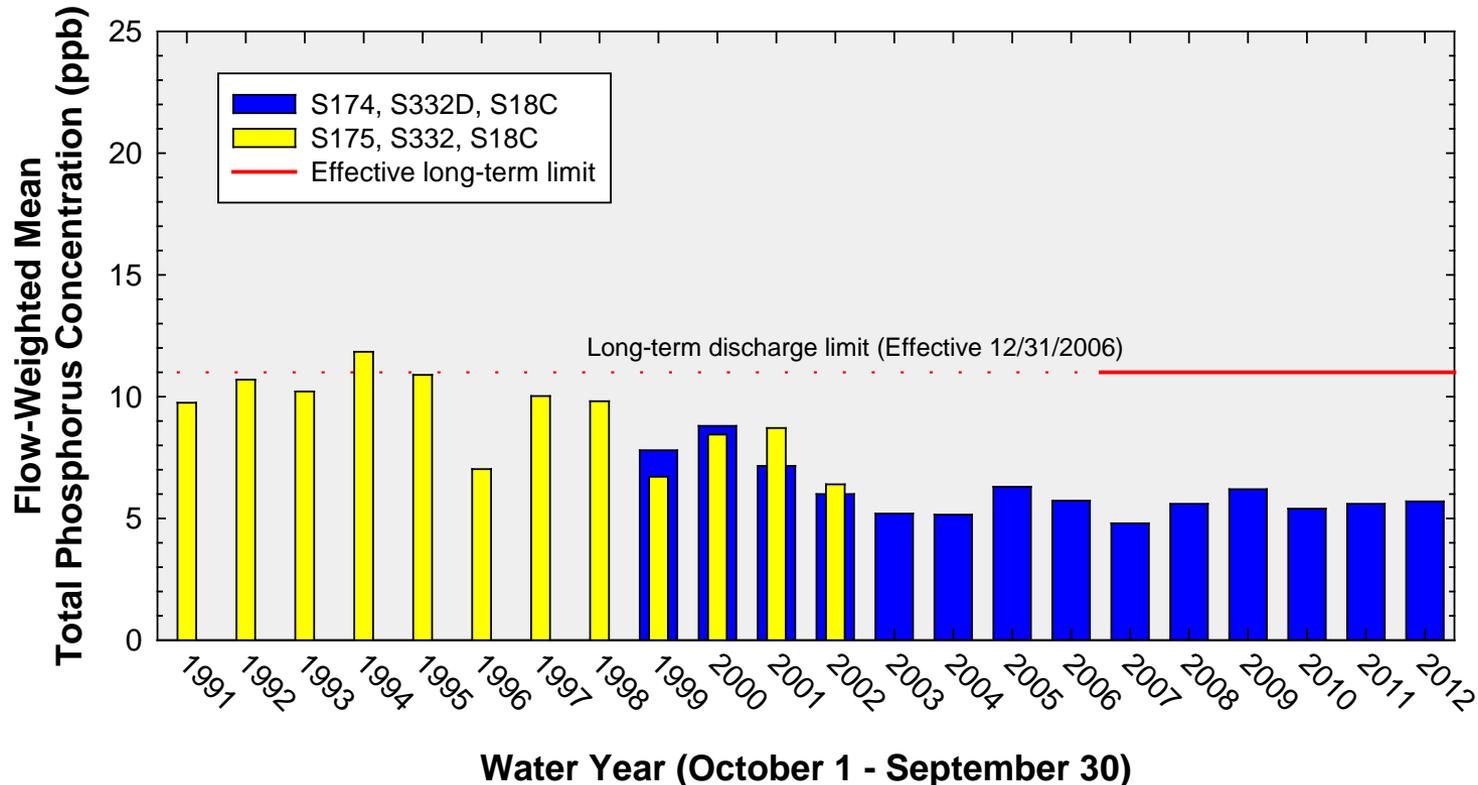


Daily Flows at S333 and S334



Annual Flow-Weighted Mean Concentrations

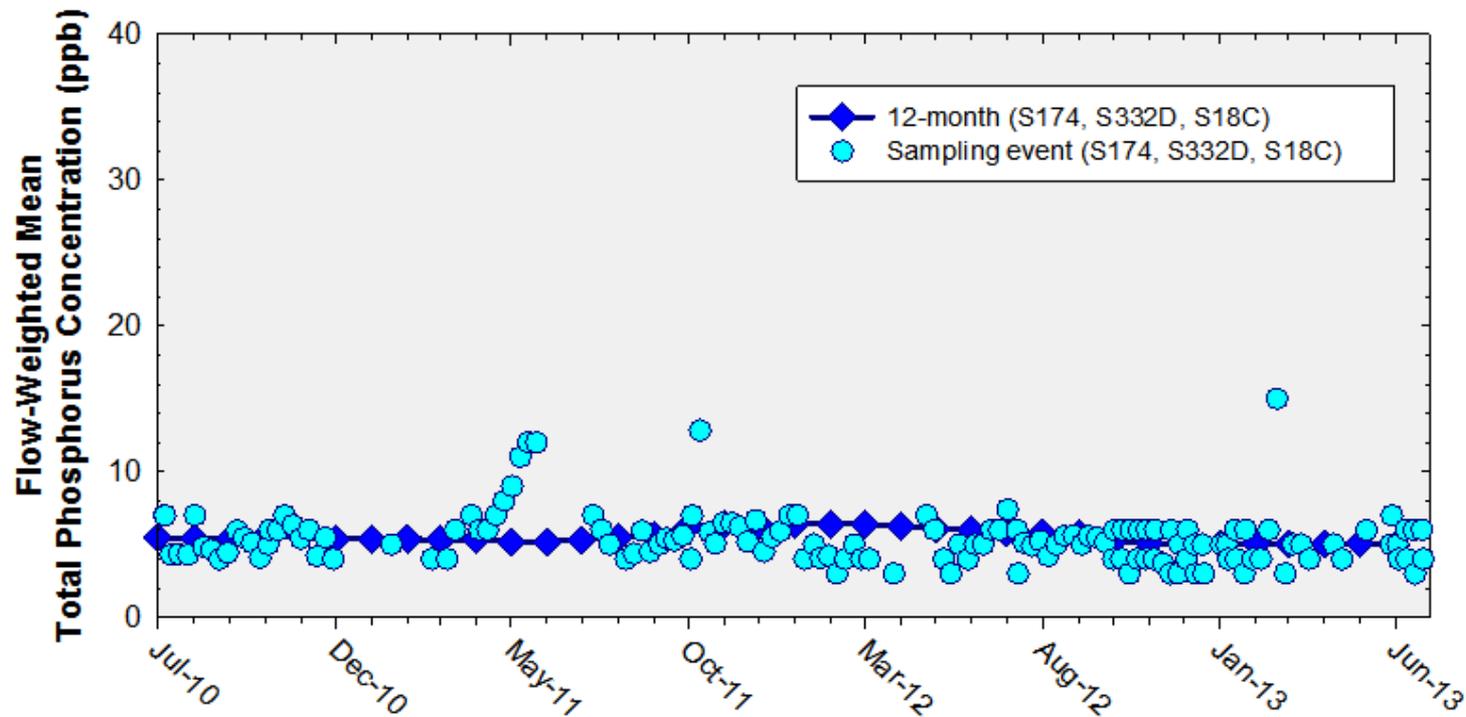
Inflows to the ENP through Taylor Slough and Coastal Basins



The 12-month FWMC at the end of each water year compared to the 11 ppb long-term TP limit

Flow-Weighted Mean Concentrations

Inflows to the ENP through Taylor Slough and Coastal Basins



The 12-month FWMC at the end of each month and the composite TP concentration for each sampling event

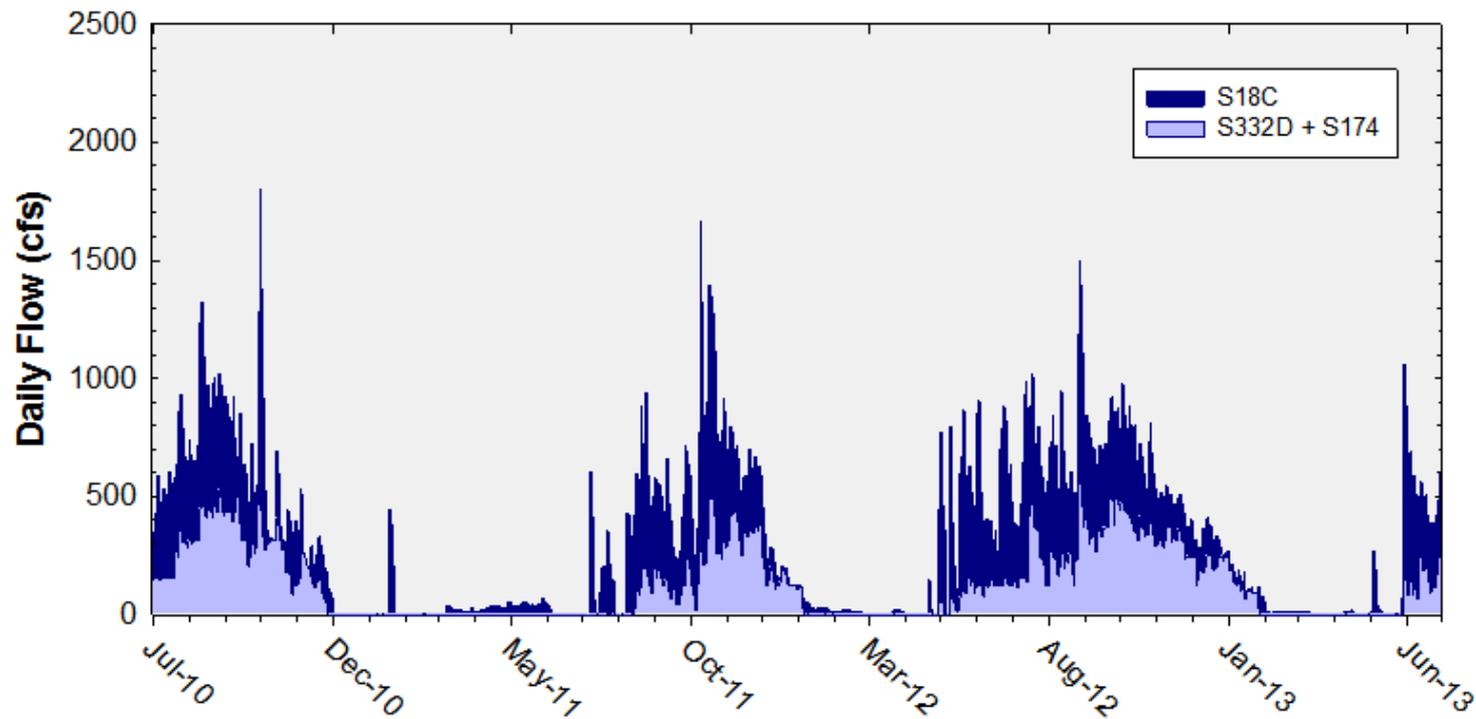
Taylor Slough and the Coastal Basins

TP Concentration Compliance Tracking

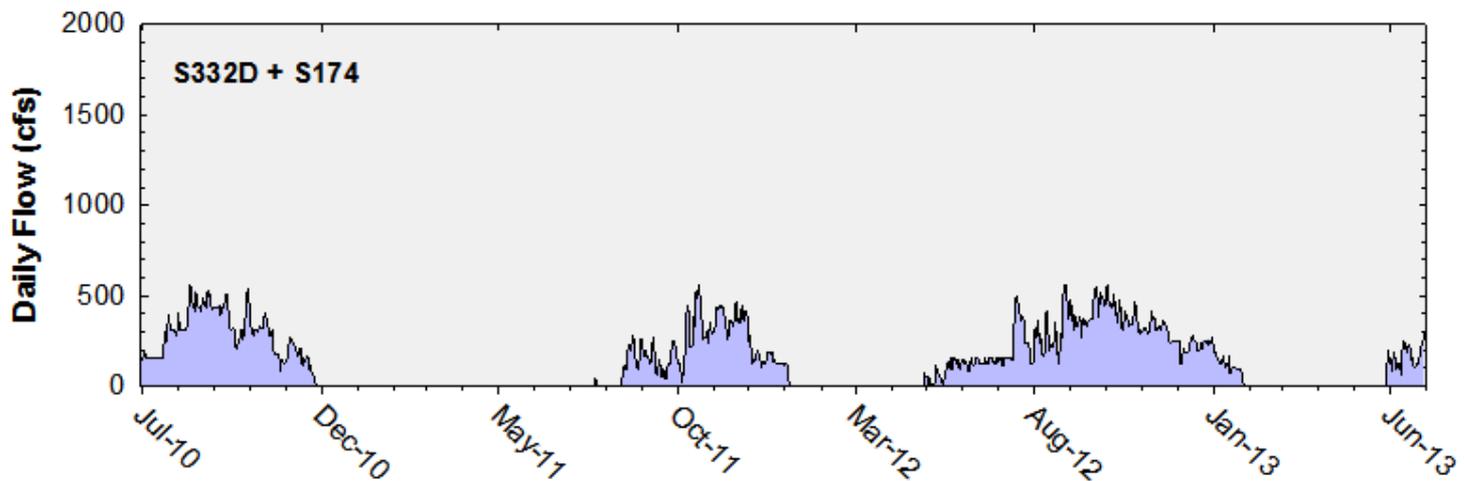
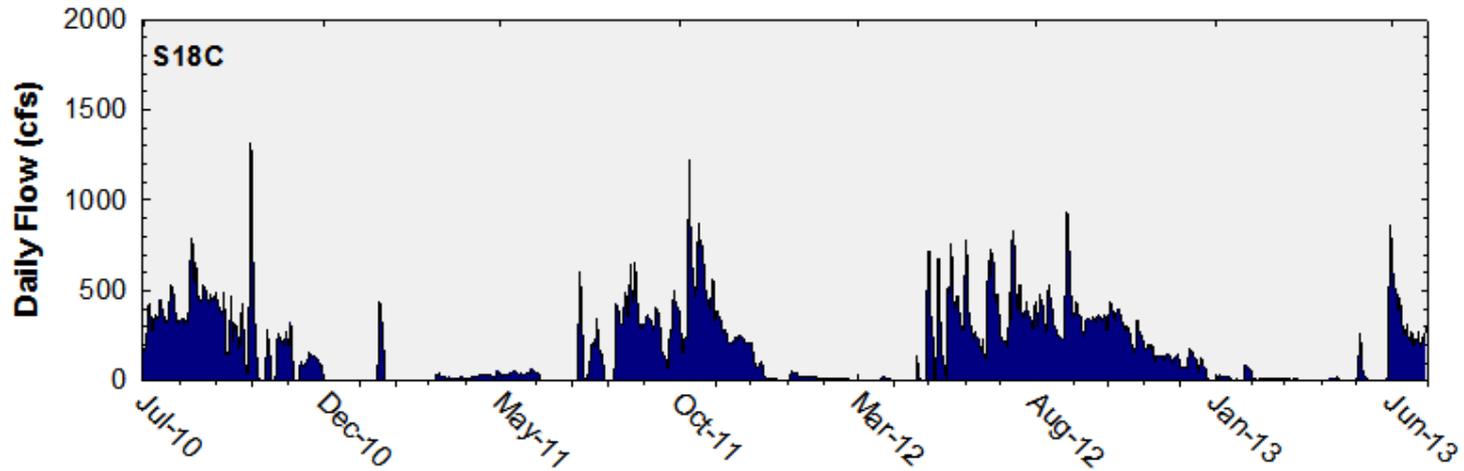
for April 2013 – June 2013

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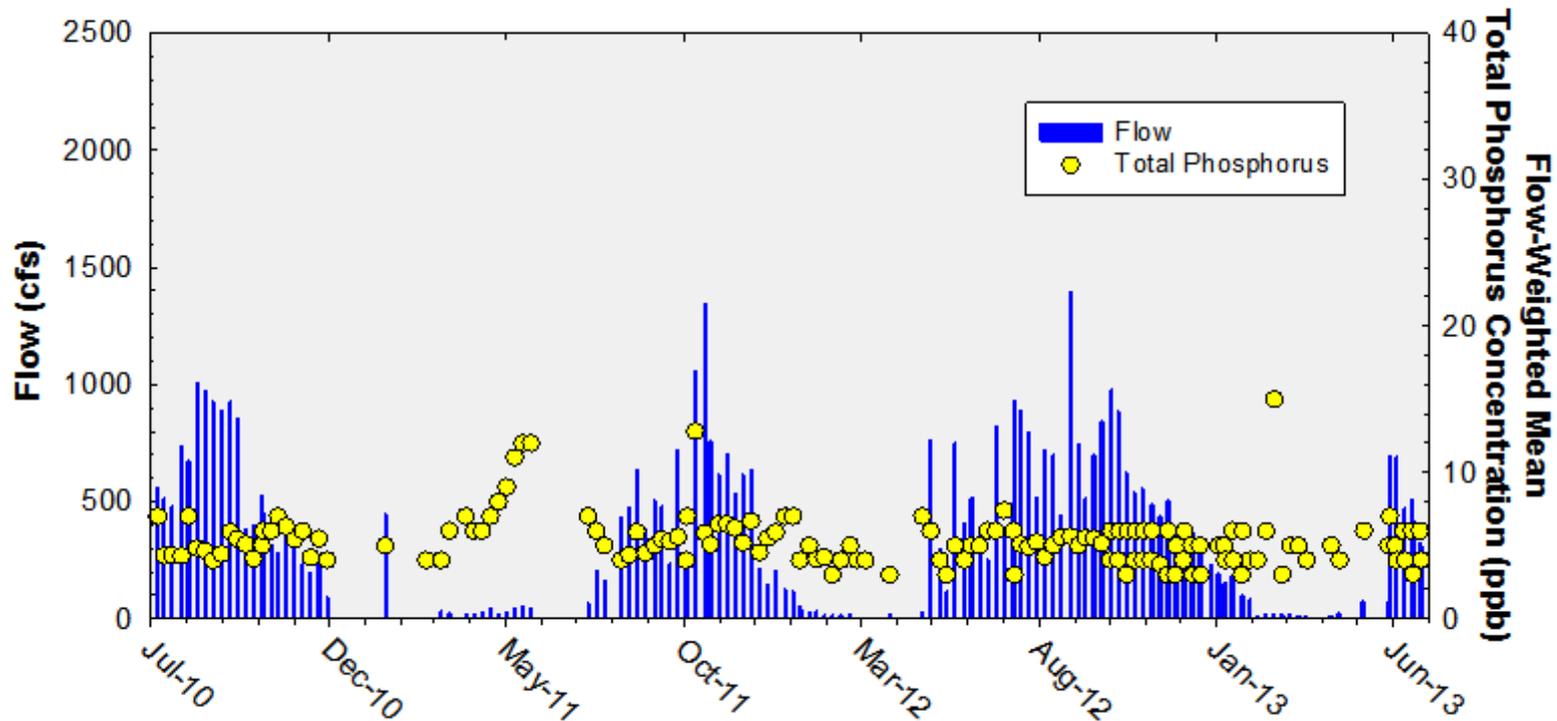
Daily Flows at Taylor Slough and Coastal Basins structures into the ENP



Daily Flows at individual Taylor Slough and Coastal Basins structures into the ENP



Taylor Slough and Coastal Basins Sampling Event Flow and FWMC



Flow at Taylor Slough and Coastal Basins structures and the corresponding TP FWMCs for individual sampling events

Thank You

