

Technical Oversight Committee

November 30, 2010

SETTLEMENT AGREEMENT REPORT

July - September 2010

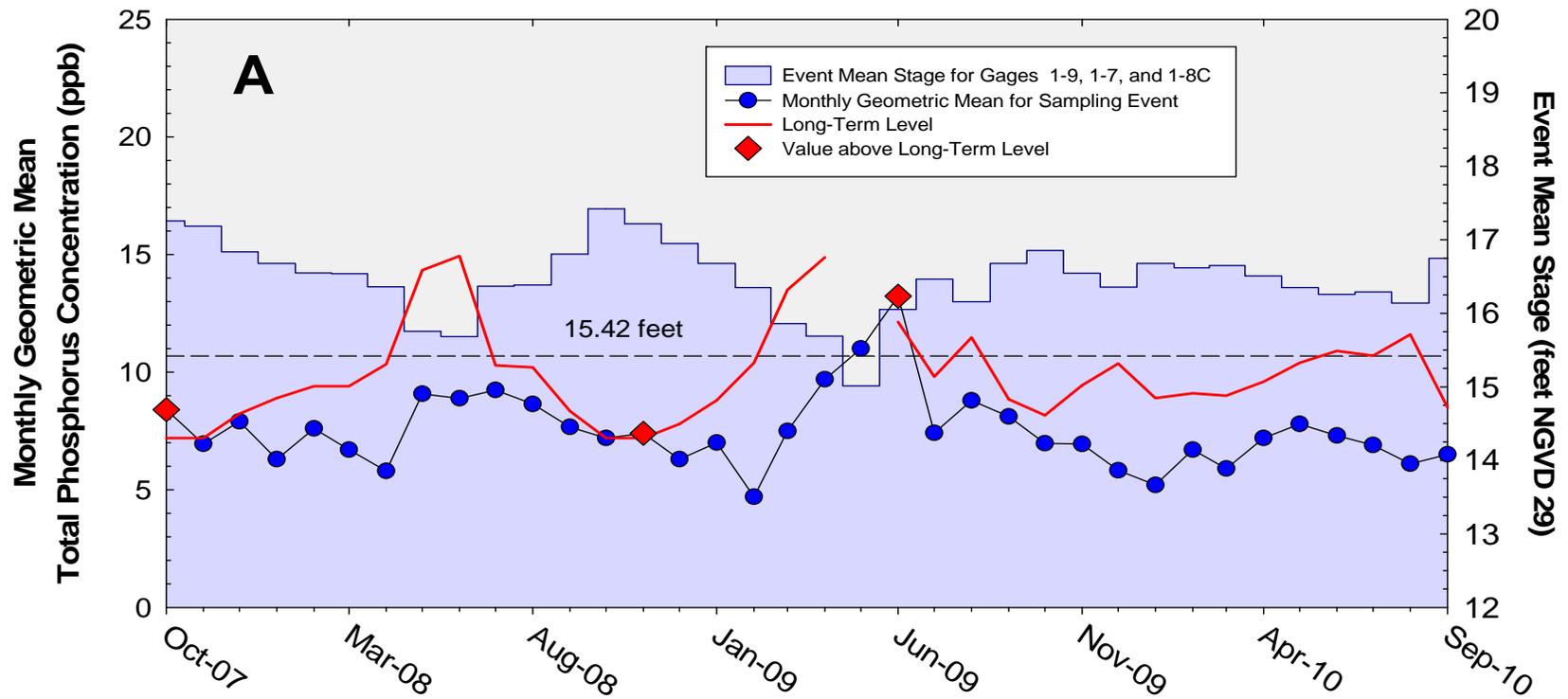
Stuart Van Horn

Section Leader, Routine and Compliance Reporting
Restoration Sciences Department

SUMMARY

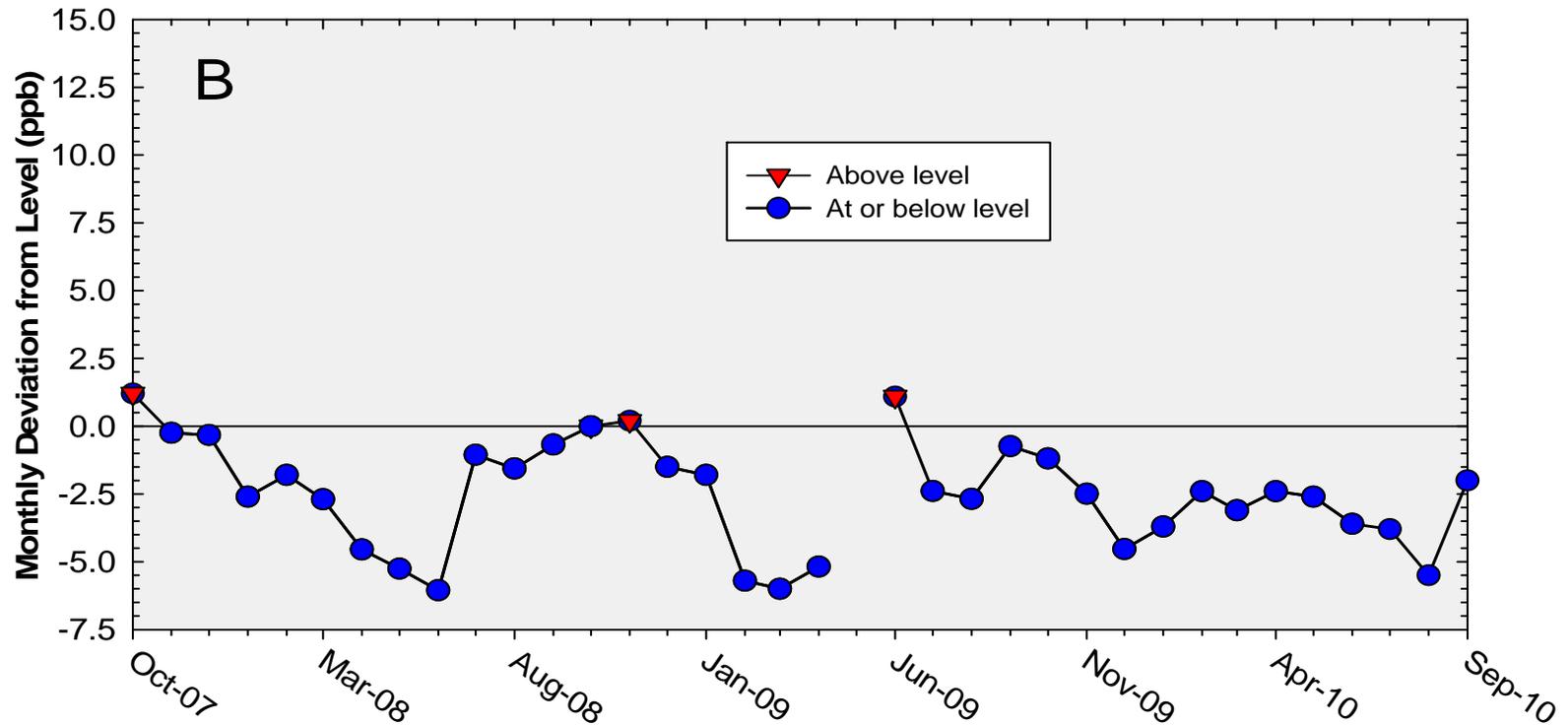
Month	Geometric Mean TP Concentration (ppb)	Long-term Level (ppb)	Mean Stage (ft NGVD 29)	Number of Samples	
Arthur R. Marshall Loxahatchee National Wildlife Refuge					
Jul-2010	6.9	10.7	16.29	14	
Aug-2010	6.1	11.6	16.14	10	
Sep-2010	6.5	8.5	16.75	14	
12-Month Period Ending	Total Flow (kac-ft)	12-Month 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					
Jul-2010	859.2	8.8	8.6	44.8	42.3
Aug-2010	842.5	8.8	8.7	45.3	48.1
Sep-2010	809.9	8.9	8.9	46.1	50.0
Everglades National Park – Taylor Slough and Coastal Basins					
Jul-2010	413.2	5.5	11.0	53.1	0.0
Aug-2010	404.8	5.4	11.0	53.1	0.0
Sep-2010	377.5	5.4	11.0	53.1	0.0

A.R.M Loxahatchee National Wildlife Refuge Monthly Total Phosphorus Geometric Mean Concentrations



A.R.M Loxahatchee National Wildlife Refuge

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

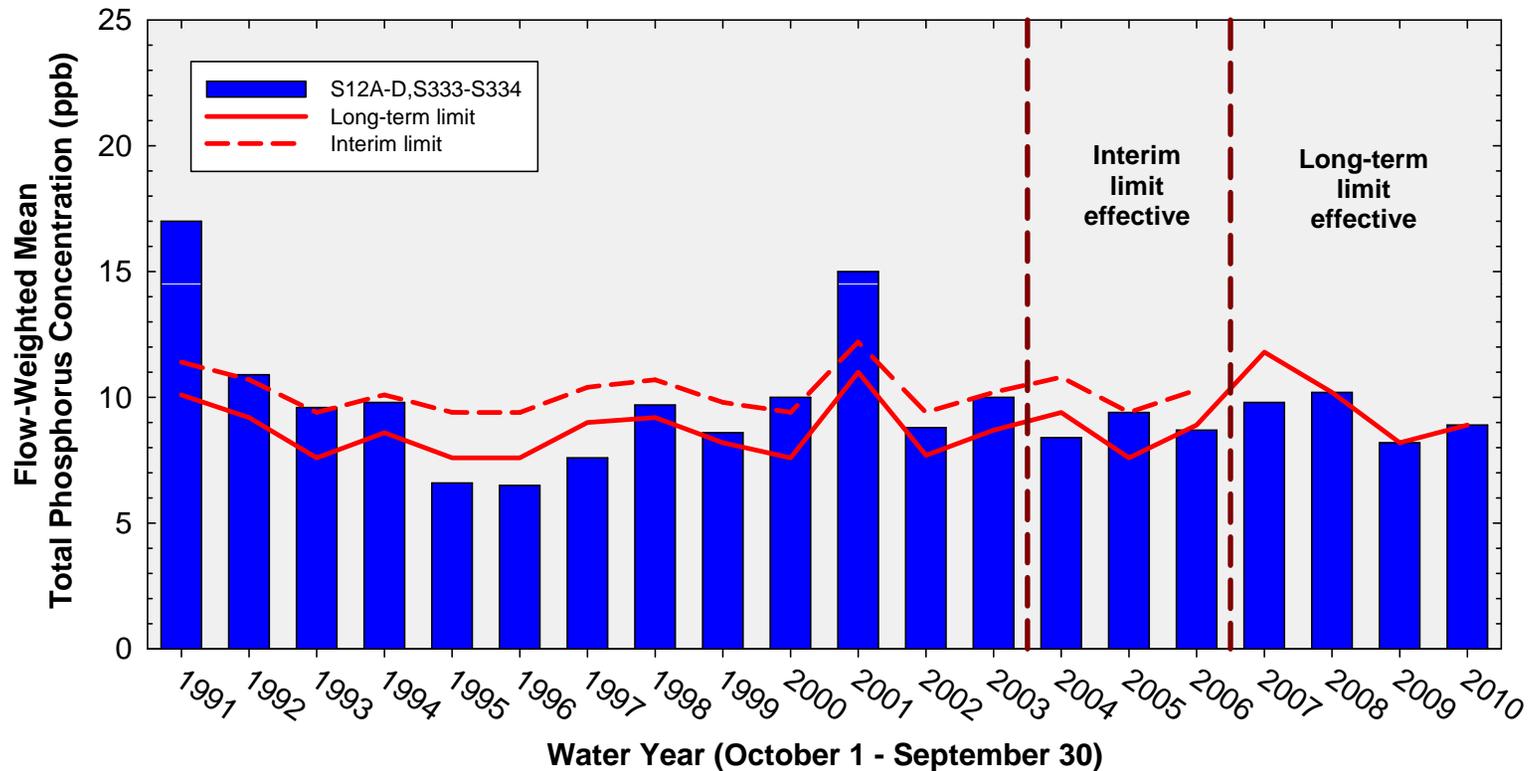


Refuge TP Compliance Tracking For July 2010 - November 2010

Month	Geometric Mean TP Concentration (ppb)	Long-Term Level (ppb) Effective 12/31/2006	Average Stage (ft NGVD 29)	Number of Samples
Jul-2010	6.9	10.7	16.29	14
Aug-2010	6.1	11.6	16.14	10
Sep-2010	6.5	8.5	16.75	14
Oct-2010	6.2	7.7	16.99	14
Nov-2010	6.6	8.2	16.83	14

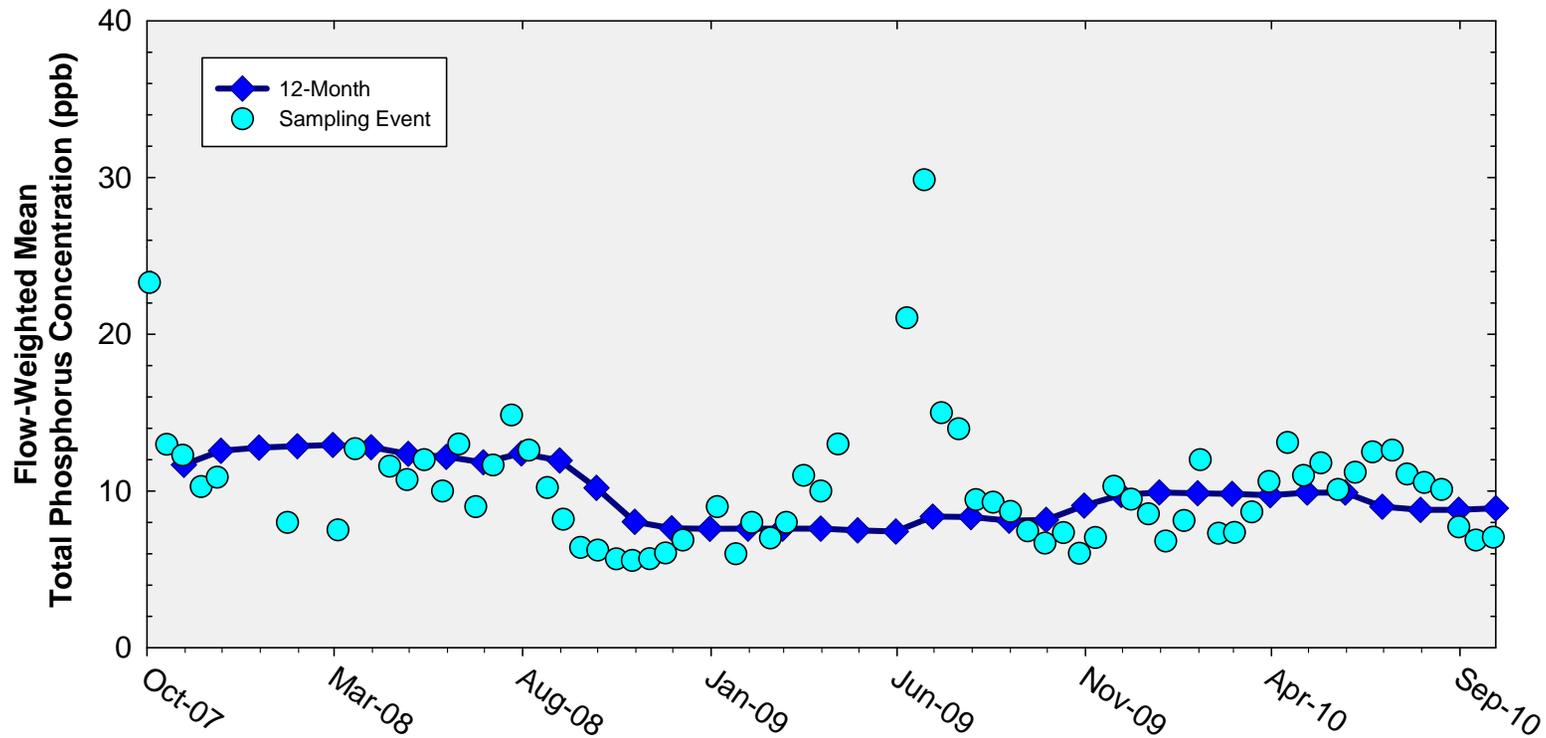
Note: October and November 2010 values are preliminary.

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

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

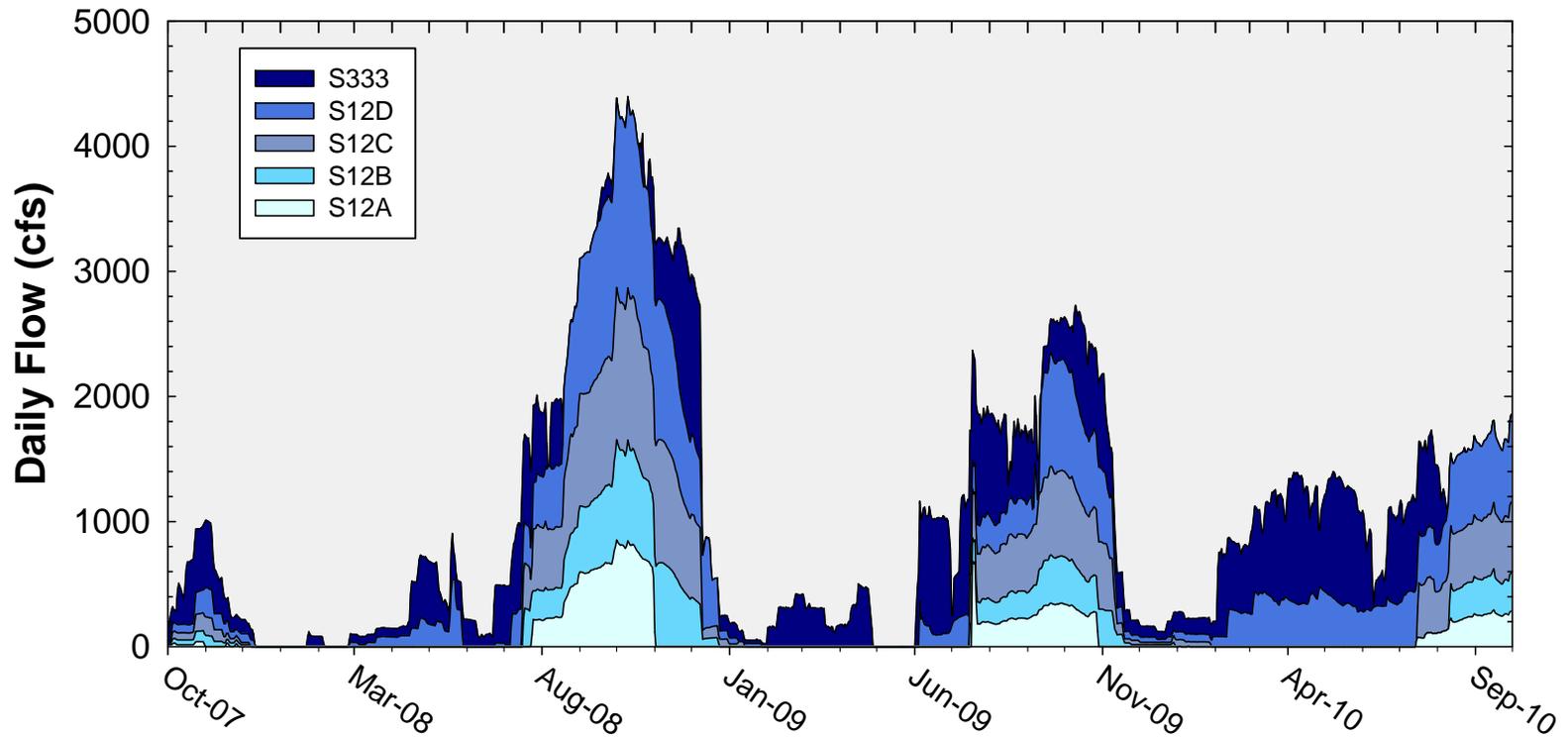


12-month FWMC at the end of each month and the composite TP concentration for each sampling event

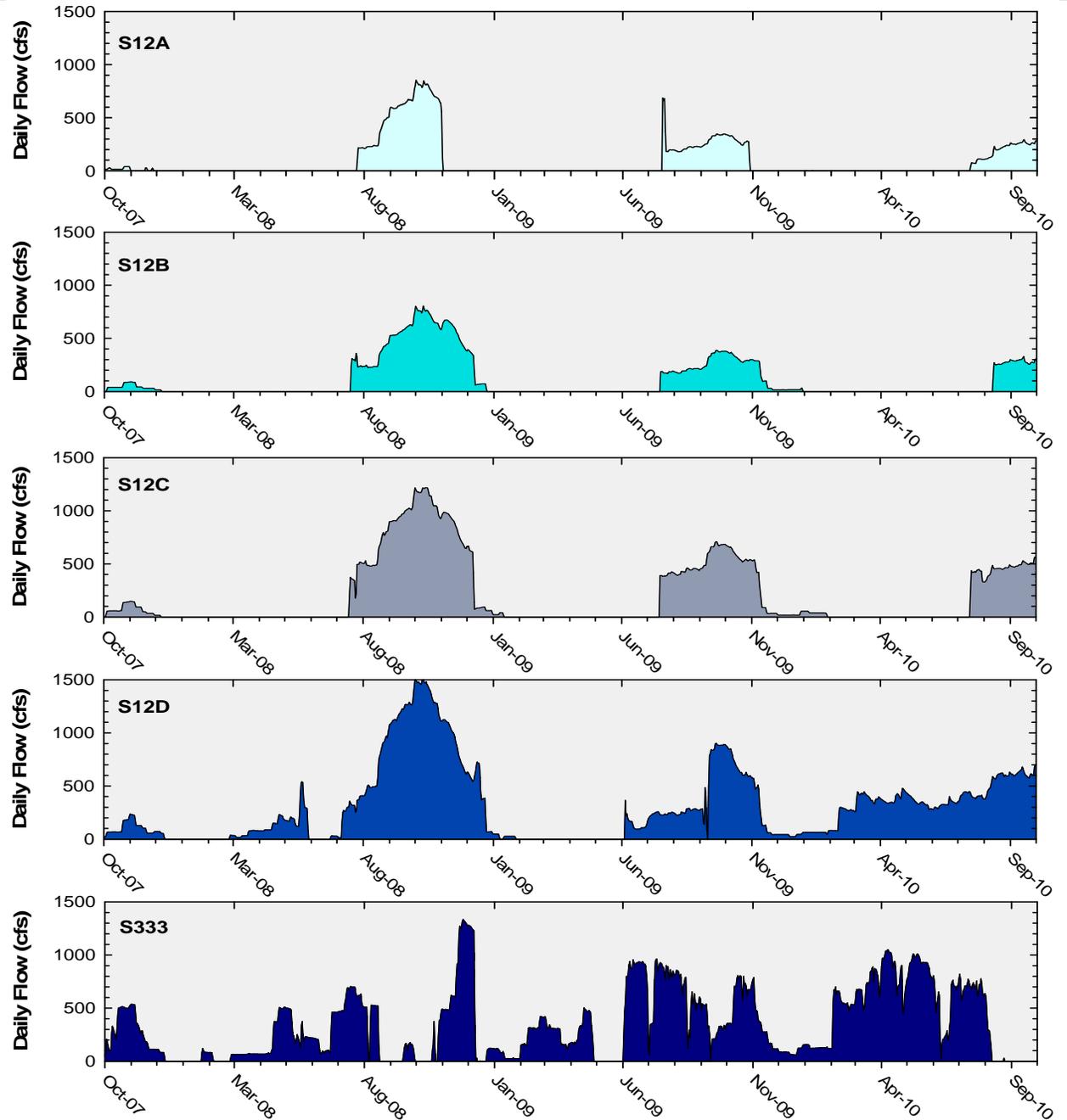
Shark River Slough TP Concentration Compliance Tracking for July 2010 – September 2010

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
Aug 2009 - July 2010	859.2	8.8	8.6	44.8	42.3
Sep 2009 - Aug 2010	842.5	8.8	8.7	45.3	48.1
<i>Oct 2009 - Sep 2010</i>	<i>809.9</i>	<i>8.9</i>	<i>8.9</i>	<i>46.1</i>	<i>50.0</i>

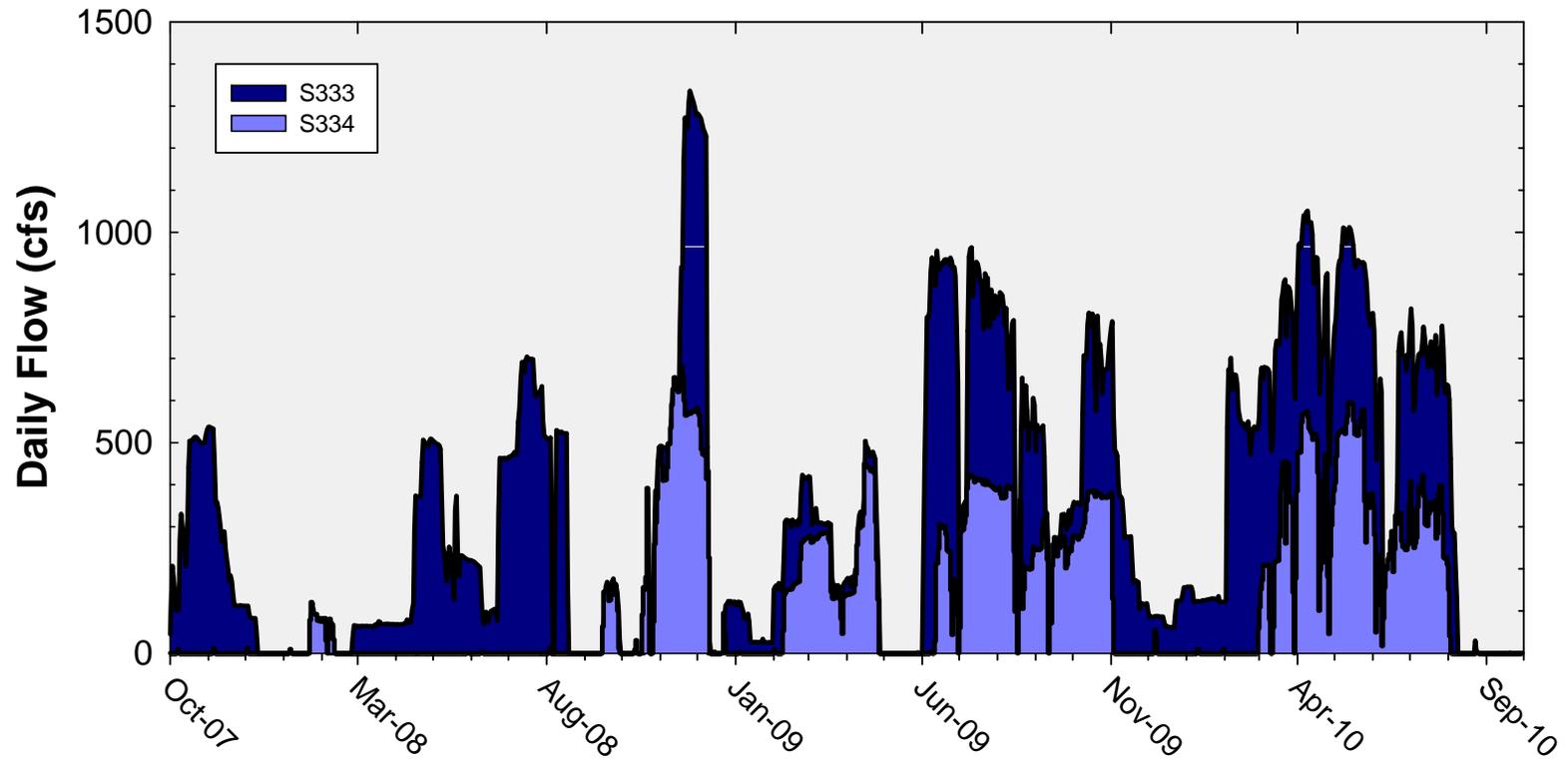
Shark River Slough Daily Flows



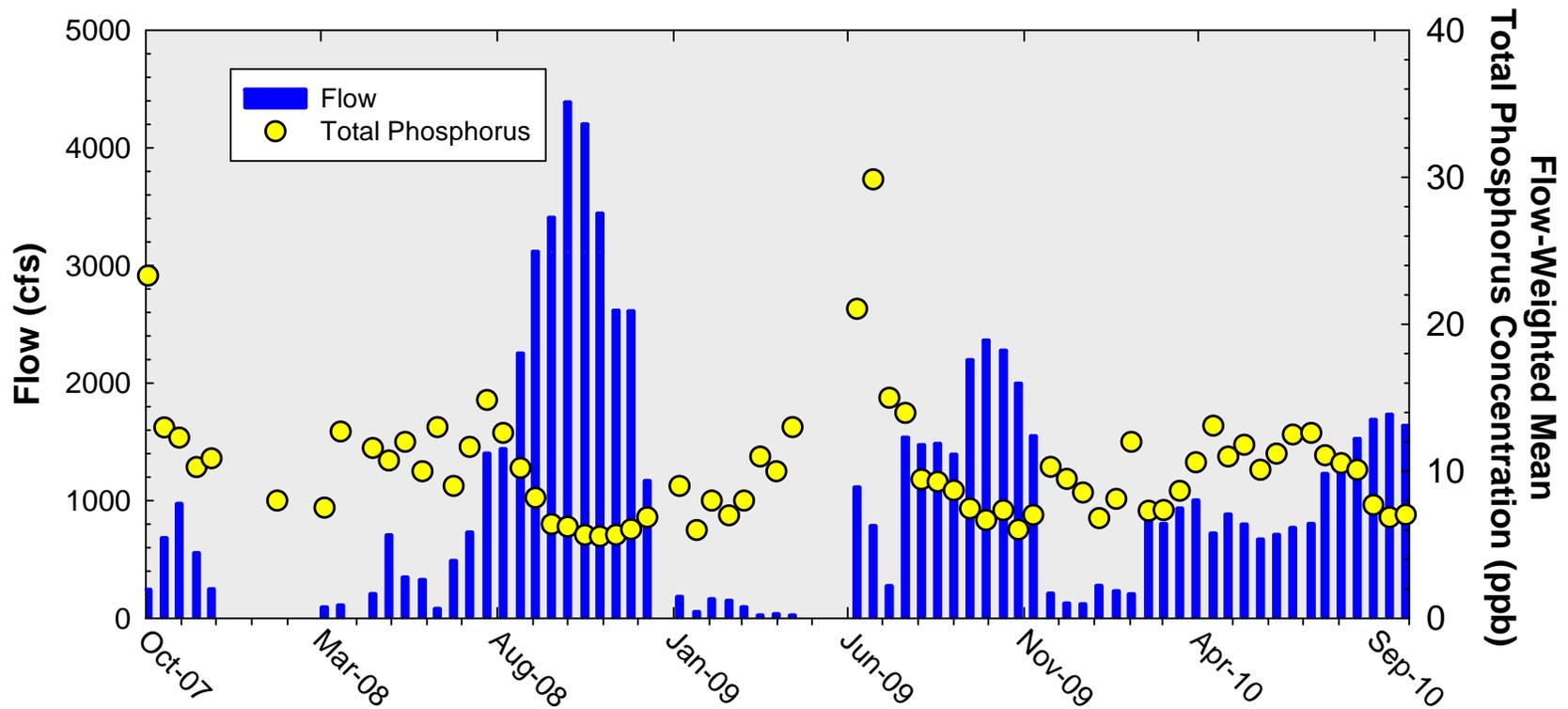
Daily Flows at individual inflow structures to Shark River Slough



Daily Flows at S333 and S334

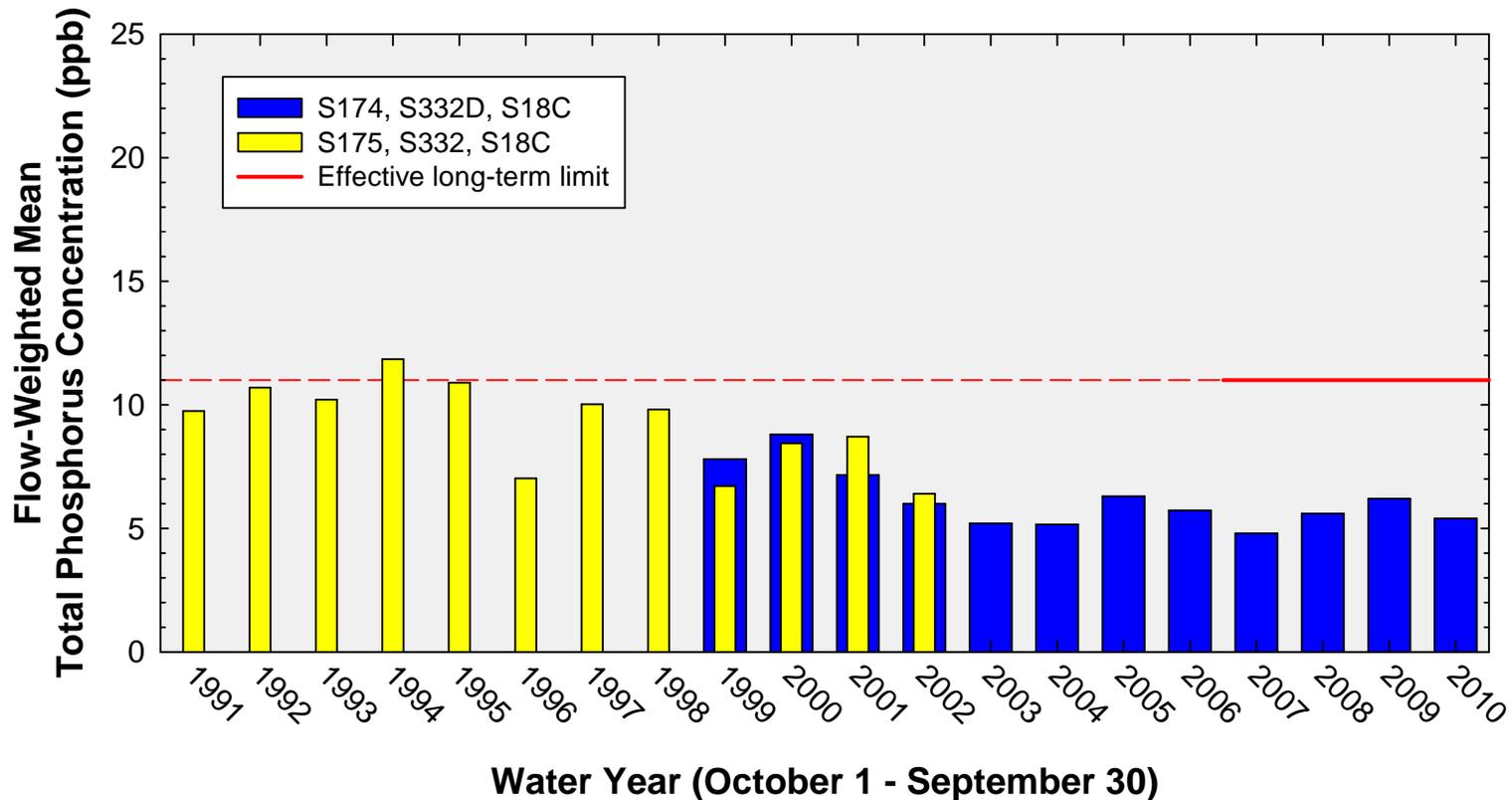


Shark River Slough Sampling Event Flow and FWMC



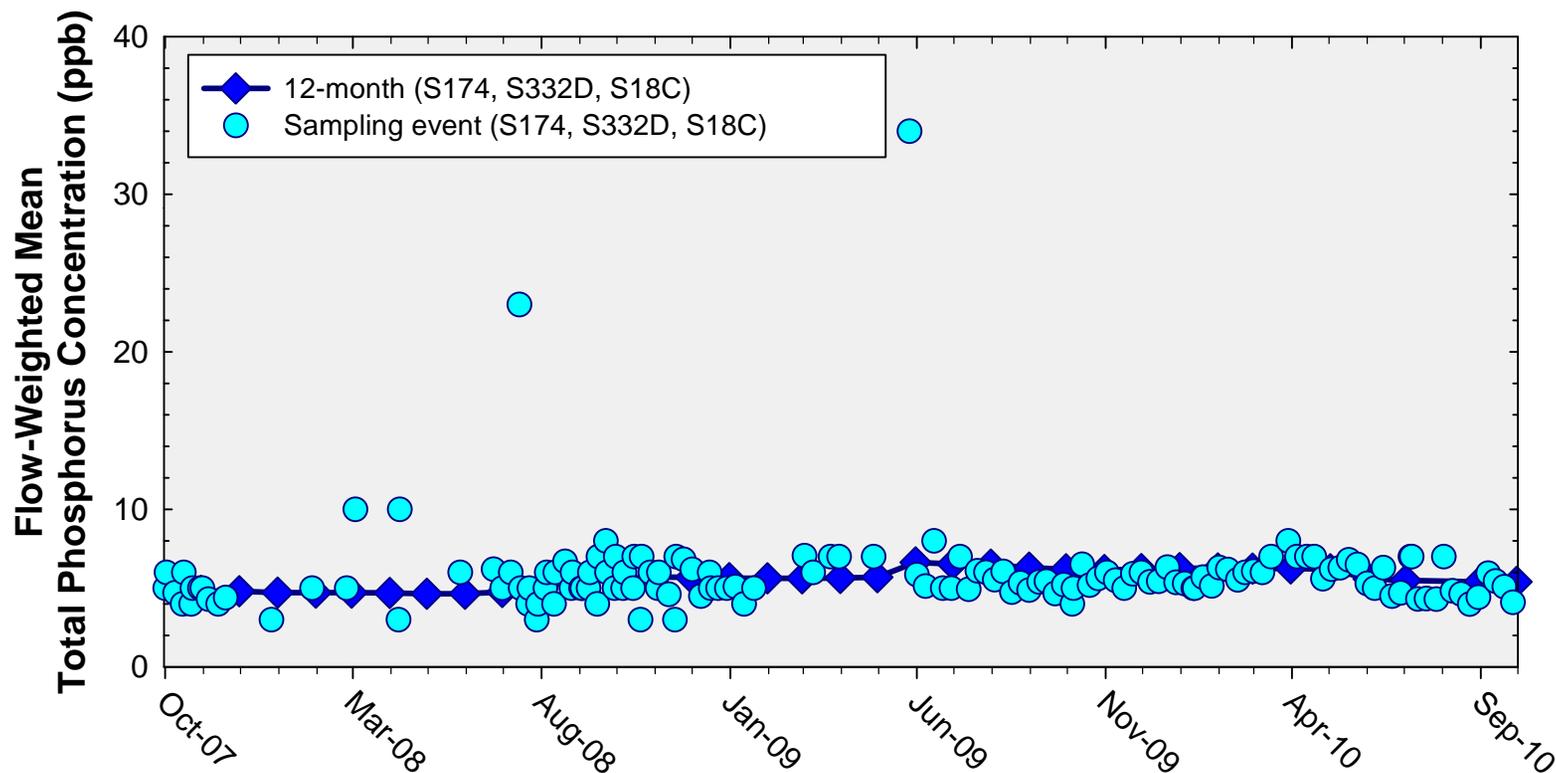
Flow at Shark River Slough structures and the corresponding TP FWMCs for individual sampling events

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 total phosphorus limit

12-Month Flow-Weighted Mean Concentrations Inflows to the ENP through Taylor Slough and Coastal Basins

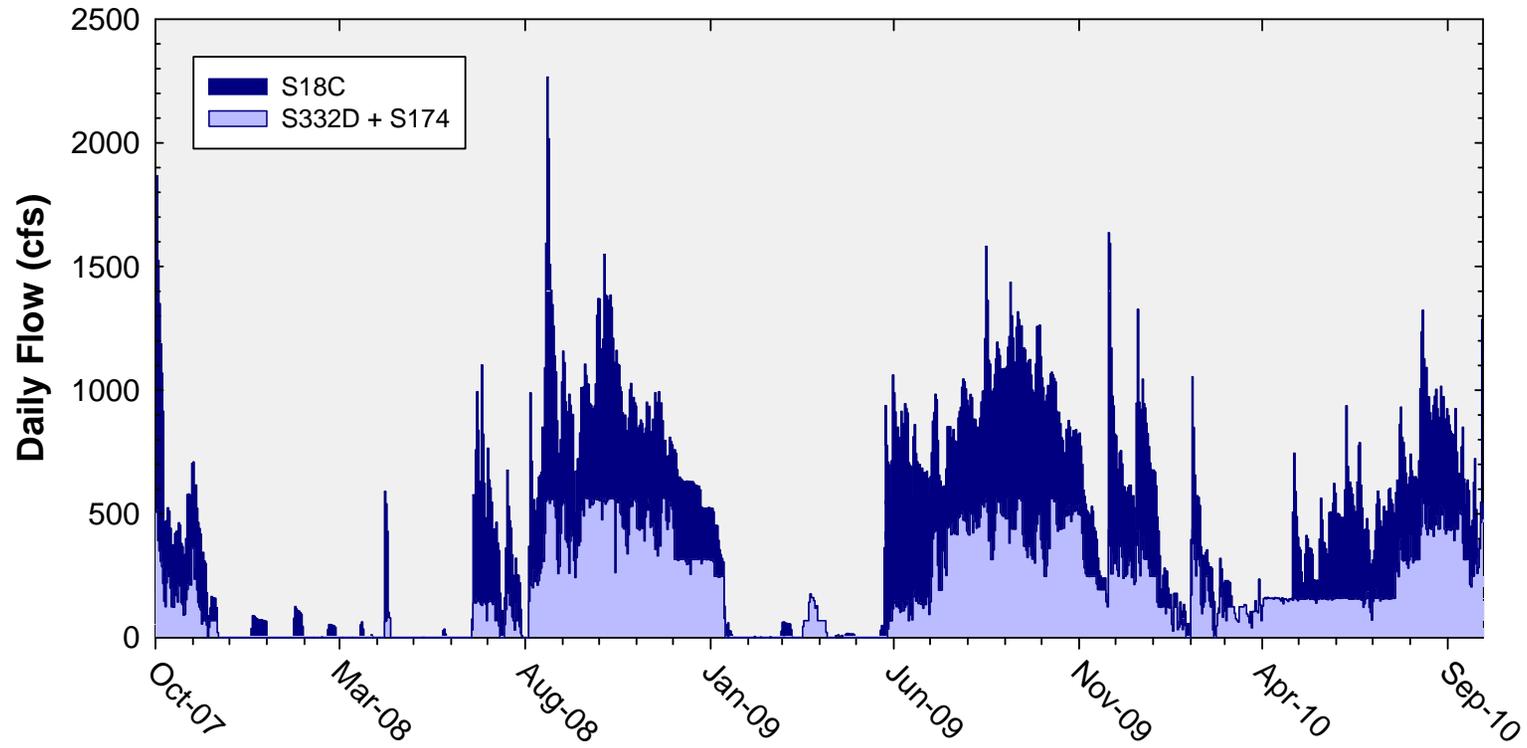


The 12-month FWMC at the end of each month and the composite TP concentration for each sampling event

Taylor Slough and Coastal Basins TP Concentration Compliance Tracking for July 2010 – September 2010

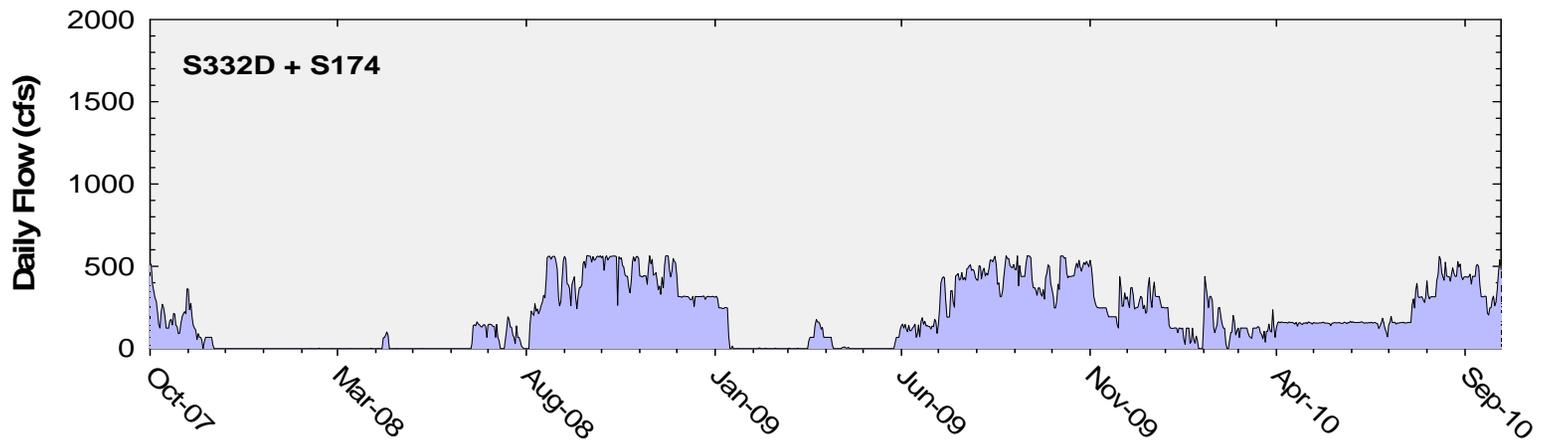
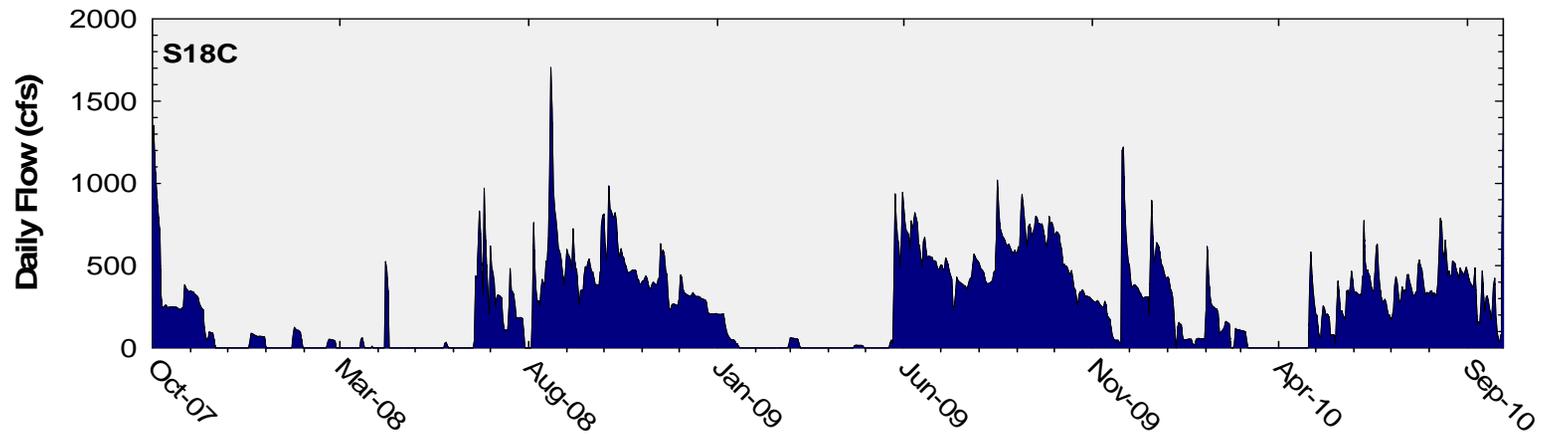
12-Month Period	Total Flow (kac-ft)	Flow-Weighted Mean TP Concentration (ppb)	Long-Term Limit (ppb) <i>Effective 12/31/2006</i>	Percent of Sampling Events Greater than 10 ppb	
				Guideline	Observed
Aug 2009 - Jul 2010	413.2	5.5	11.0	53.1	0.0
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Taylor Slough and Coastal Basins Daily Flows

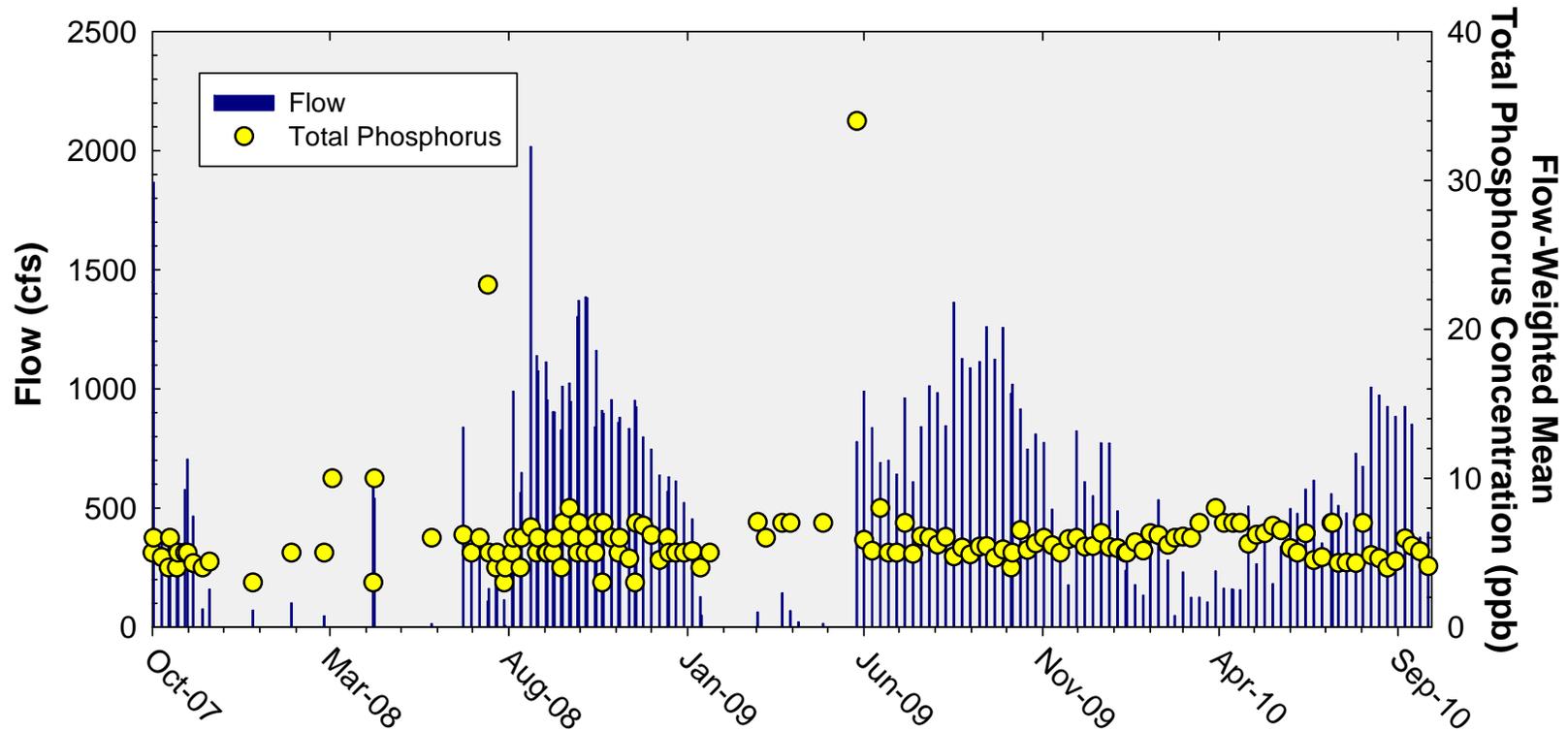


Daily flows into Everglades National Park through Taylor Slough and Coastal Basins

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