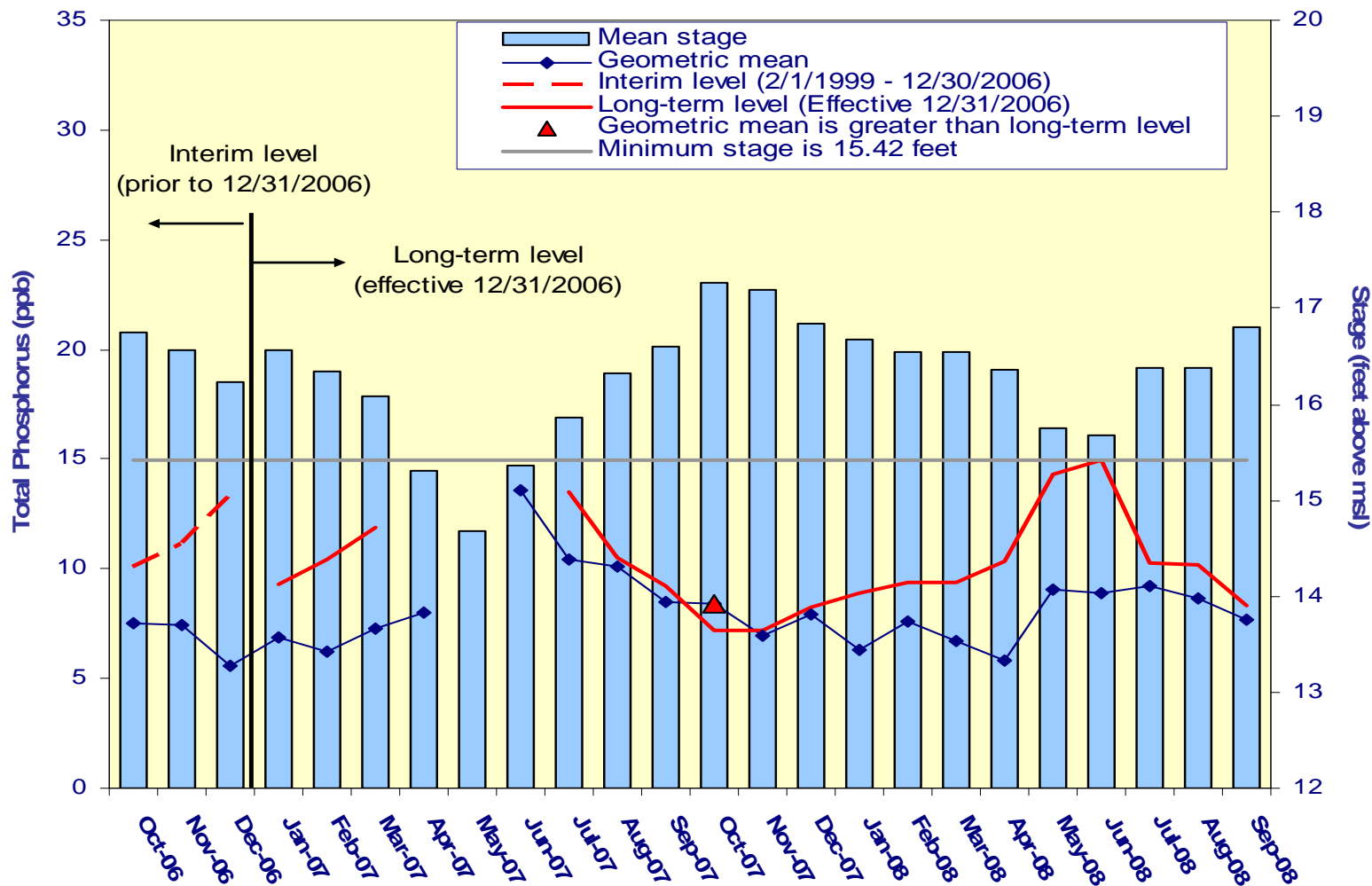


Settlement Agreement

April - September 2008

Prepared for the
Technical Oversight Committee
January 29, 2009

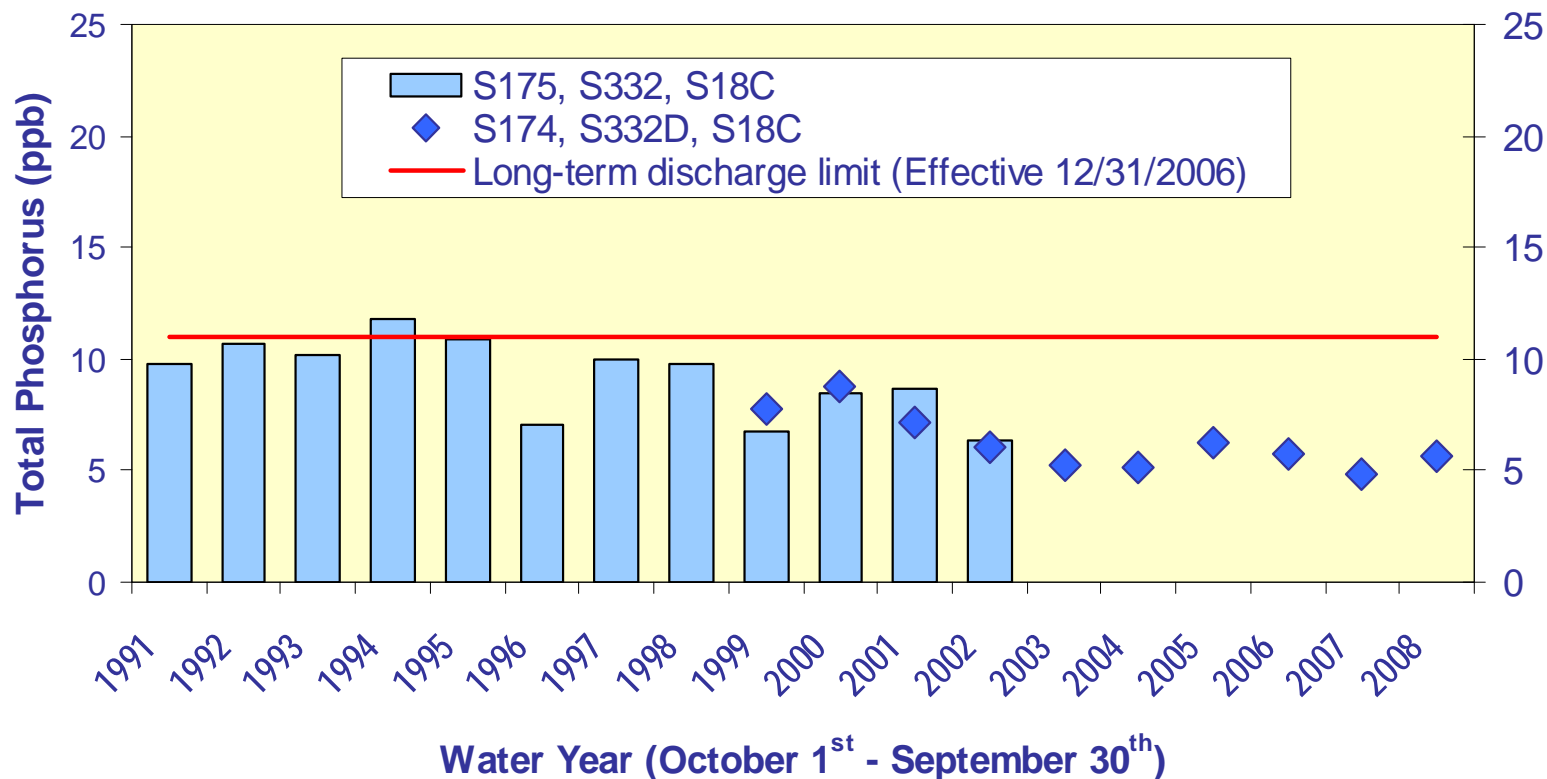
A.R.M Loxahatchee National Wildlife Refuge Monthly Total Phosphorus Geometric Mean Concentrations



Refuge TP Compliance Tracking for April 2008 – December 2008

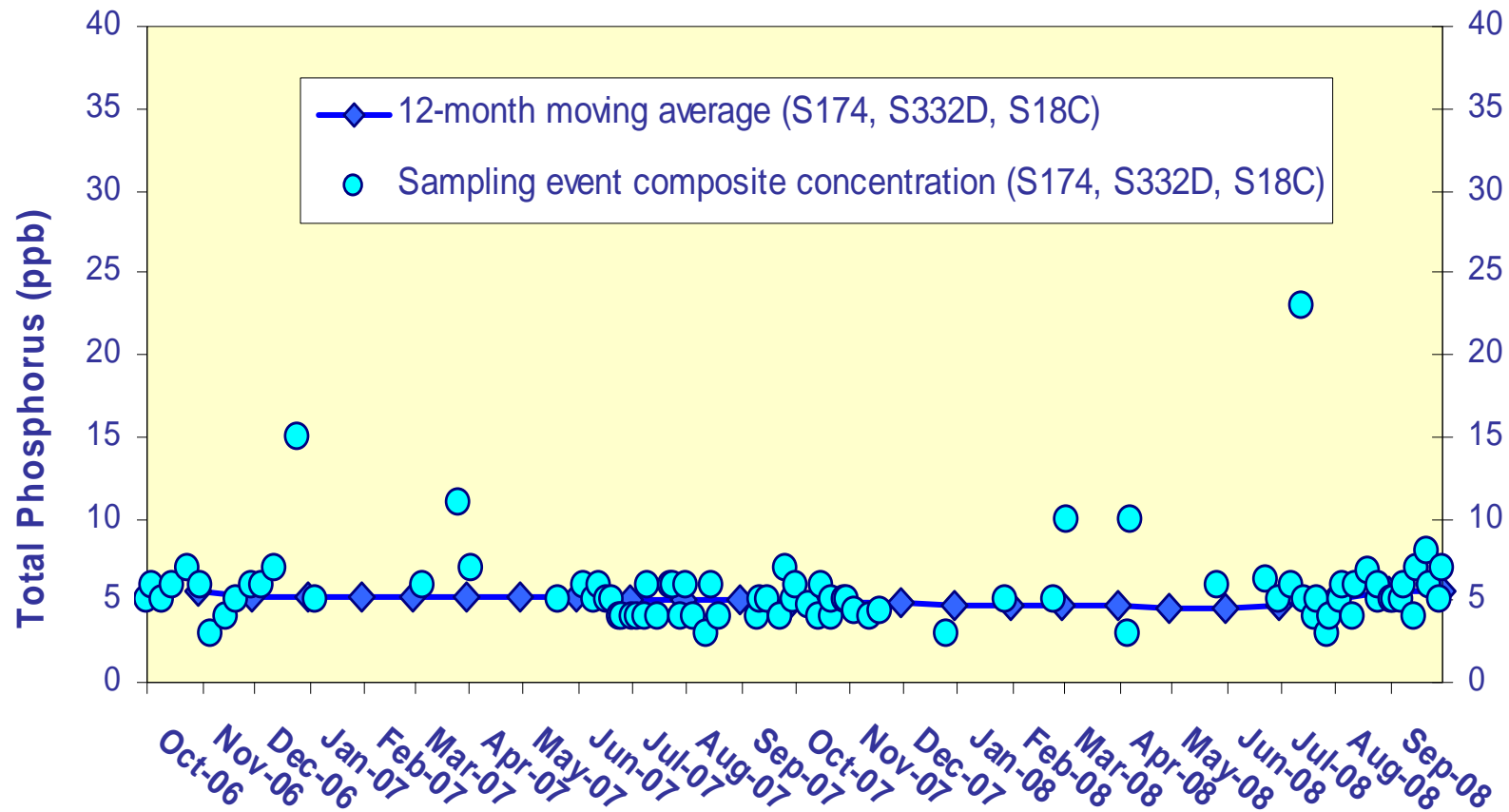
Month - Year	Geometric Mean Concentration	Interim Level ^a (ppb)	Long-Term Level ^a (ppb)	Average Stage ^b	Number of TP Samples	Number of Stage Measurements
	(ppb)	Effective 2/1/99-12/30/06	Effective 12/31/06	(ft NGVD)		
Apr-2008	5.8	12.5	10.3	16.36	14	3
May-2008	9.1	17.9	14.3	15.76	9	3
Jun-2008	8.9	18.8	14.9	15.68	8	3
Jul-2008	9.2	12.4	10.3	16.37	14	3
Aug-2008	8.6	12.3	10.2	16.39	14	3
Sep-2008	7.7	9.8	8.3	16.81	14	3
Oct-2008	7.2	8.3	7.2	17.42	14	3
Nov-2008	7.4	8.3	7.2	17.22	14	3
Dec-2008	6.3	9.1	7.8	16.95	14	3

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



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

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

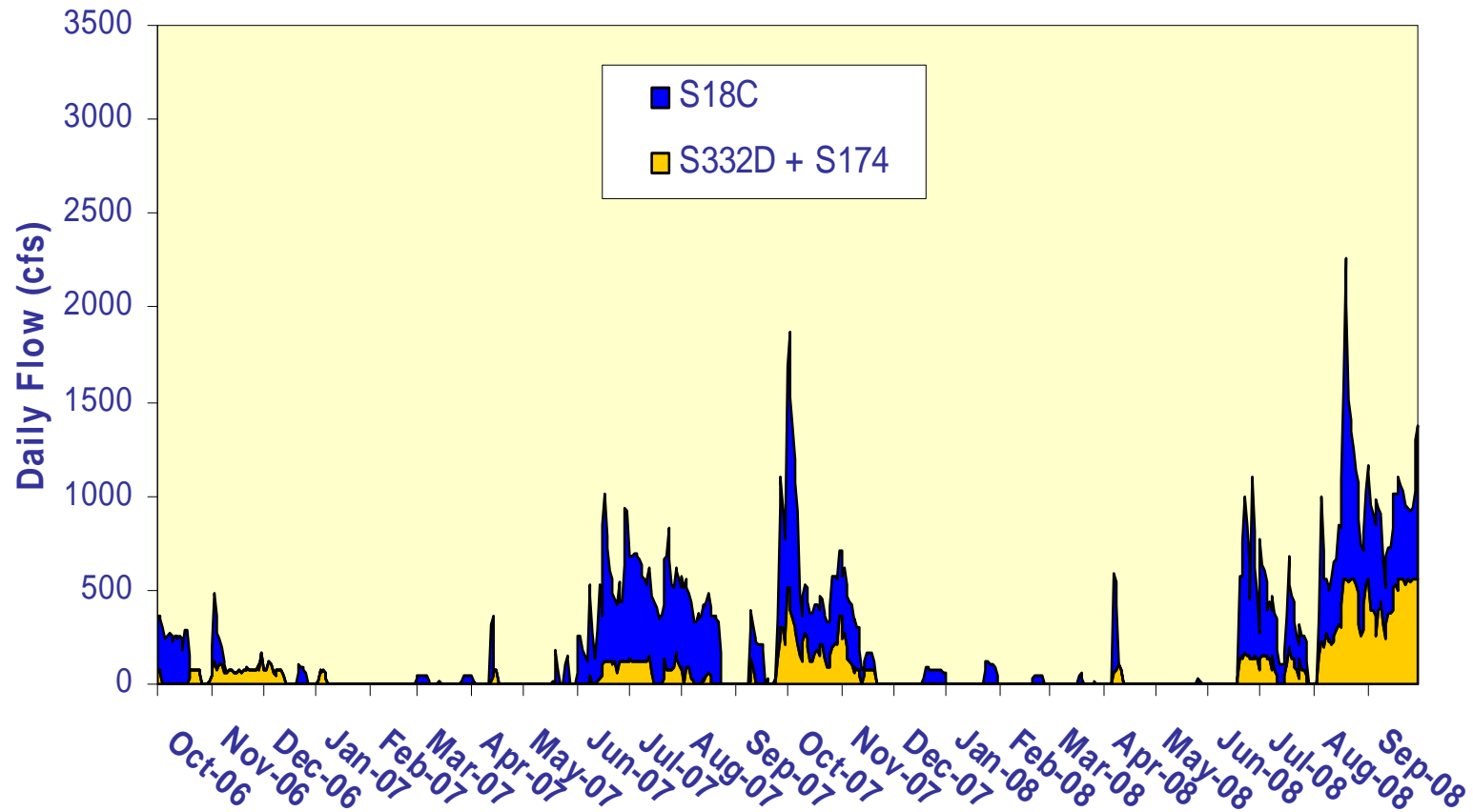


The 12-month FWMC at the end of each month and the composite TP concentration for each sampling event.

Taylor Slough and the Coastal Basins TP Concentration Compliance Tracking For April 2008 – September 2008

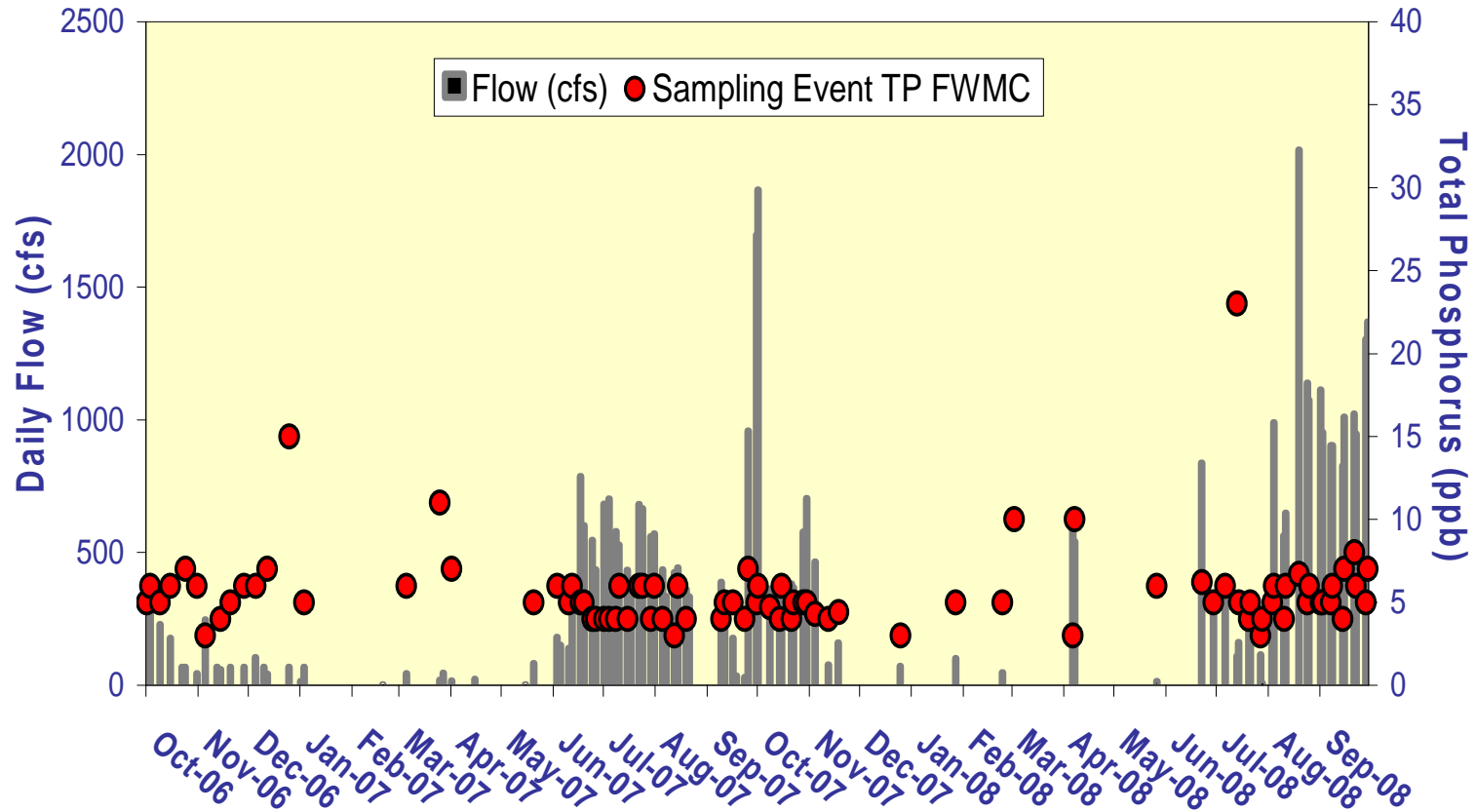
12-Month Period	Total Flow (kac-ft)	TP Flow Weighted Mean (ppb)	Long-Term Limit (Effective 12/31/06) (ppb)	Percent of Sampling Events Greater than 10 ppb (%)	
				Guideline	Observed
5/1/2007 - 4/30/2008	157.1	4.6	11.0	53.1	0.0
6/1/2007 - 5/31/2008	155.9	4.6	11.0	53.1	0.0
7/1/2007 - 6/30/2008	145.0	4.8	11.0	53.1	0.0
8/1/2007 - 7/31/2008	130.0	5.0	11.0	53.1	2.6
9/1/2007 - 8/31/2008	165.6	5.5	11.0	53.1	2.5
10/1/2007 - 9/30/2008	207.7	5.6	11.0	53.1	2.2

Taylor Slough and S18C Daily Flows



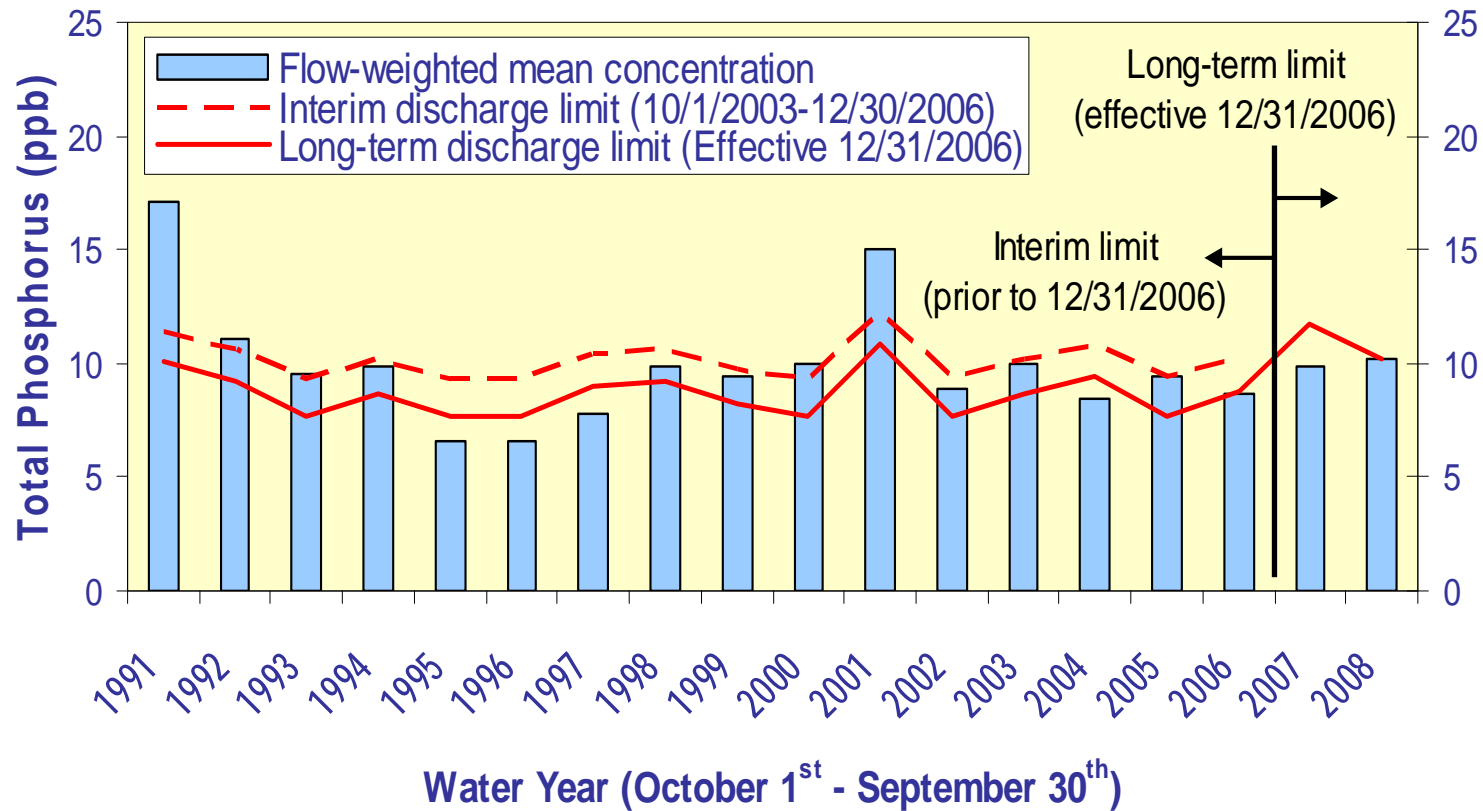
Daily flows into Everglades National Park through Taylor Slough and S18C.

Taylor Slough and S18C Sampling Event Flows and FWMC



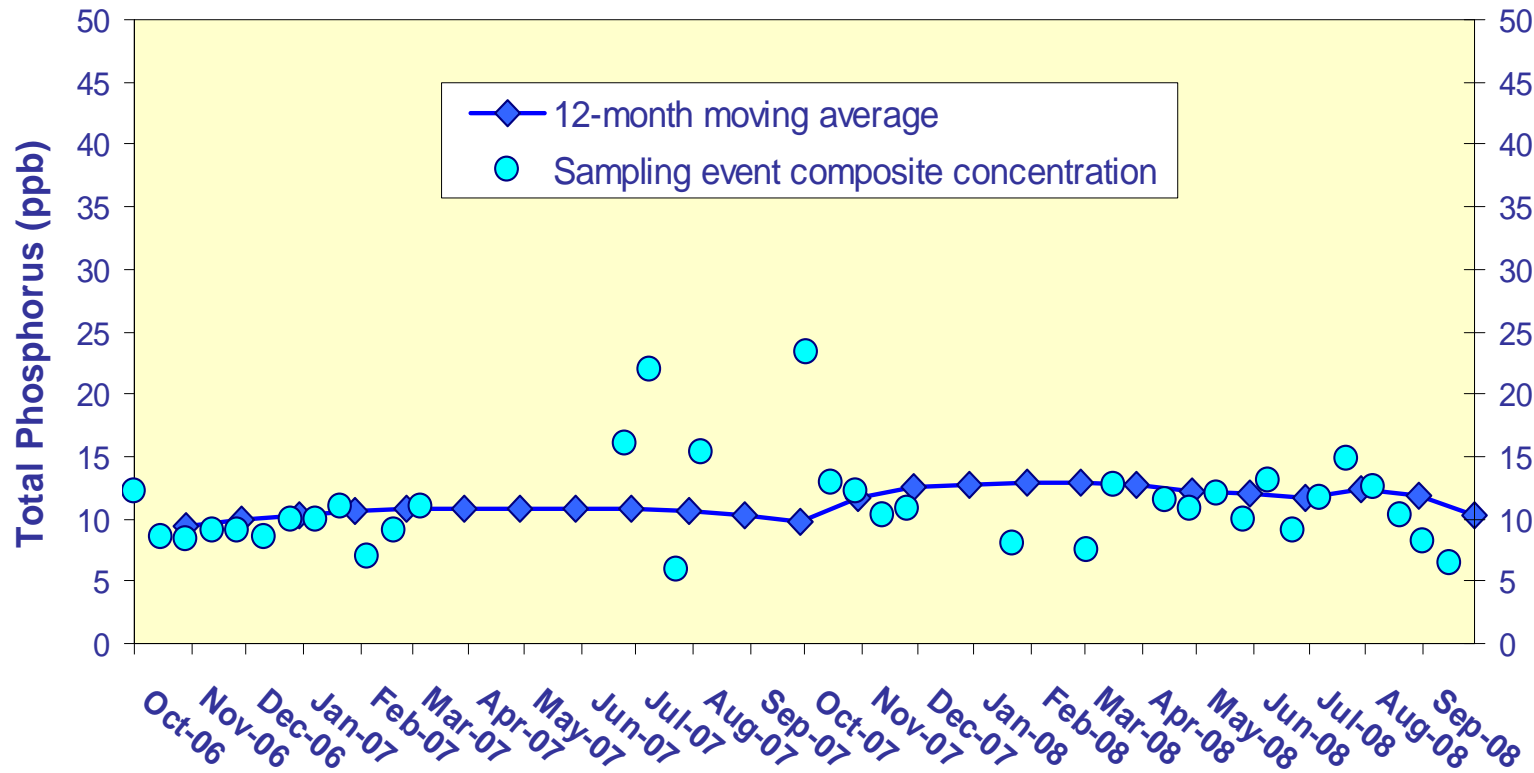
Daily flows at Taylor Slough structures and S18C and the corresponding TP for individual sampling events.

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.

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 April 2008 – September 2008

12-Month Period	Total Flow (kac-ft)	TP Flow Weighted Mean (ppb)	Interim Limit (ppb)		Long-Term Limit (ppb)		Percent of Sampling Events Greater than 10 ppb (%)	
			Effective 10/1/03-12/30/06	Effective 12/31/06	Effective 12/31/06	Effective 12/31/06	Guideline	Observed
5/1/2007 - 4/30/2008	110.9*	12.4	14.0	12.9	69.4*	78.6		
6/1/2007 - 5/31/2008	142.3*	12.2	13.8	12.7*	68.1*	75.0		
7/1/2007 - 6/30/2008	153.6*	11.8	13.7	12.6	67.7*	70.6		
8/1/2007 - 7/31/2008	227.4*	12.4	13.3	12.2*	64.9*	76.5		
9/1/2007 - 8/31/2008	356.8*	12.0	12.6*	11.4*	60.1*	77.8		
10/1/2007 - 9/30/2008	562.0*	10.2 ^c	11.5	10.2	53.3*	70.0		

Shark River Slough Grab TP Concentration Data in August and September 2008

Date	Sample Type	S12A	S12B	S12C	S12D	S333
8/6/2008*	Grab	8	9	15	14	10
8/13/2008	Grab	7	7	9	13	13
8/21/2008*	Grab	6	7	10	14	12
8/27/2008	Grab	6	6	9	12	10
9/2/2008	Daily Autosampler	8				10
9/3/2008*	Grab**	7	6	8	10	13
9/3/2008	Daily Autosampler	8				11
9/10/2008	Grab	6	6	9	9	8
9/17/2008*	Grab	6	5	8	6	9
9/24/2008	Grab	6	5	6	8	10

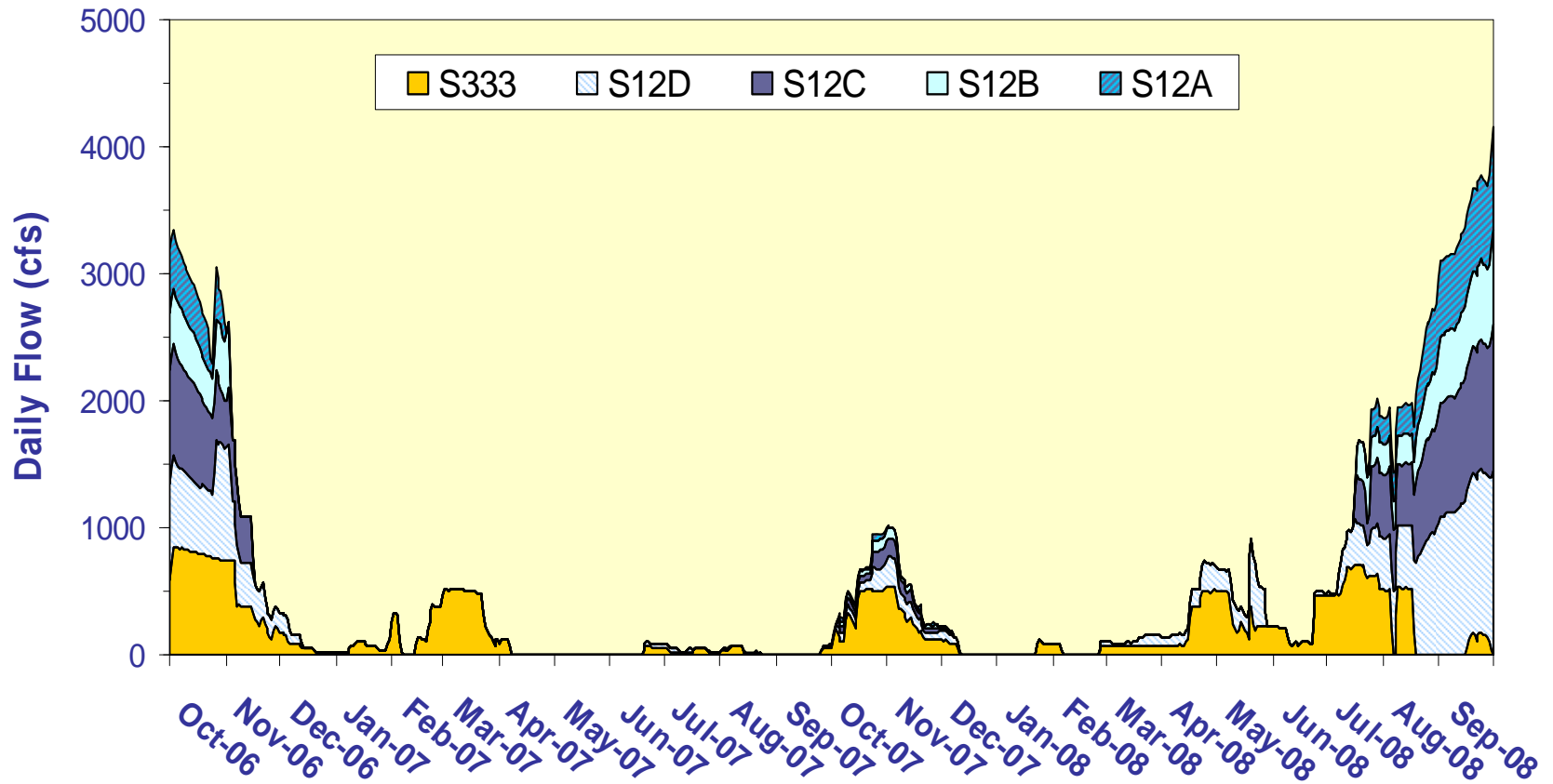
* Shaded row indicates compliance data.

** Results for the September 3, 2008 sampling event grabs were qualified based on the District's laboratory protocol for detections in the associated FCEB.

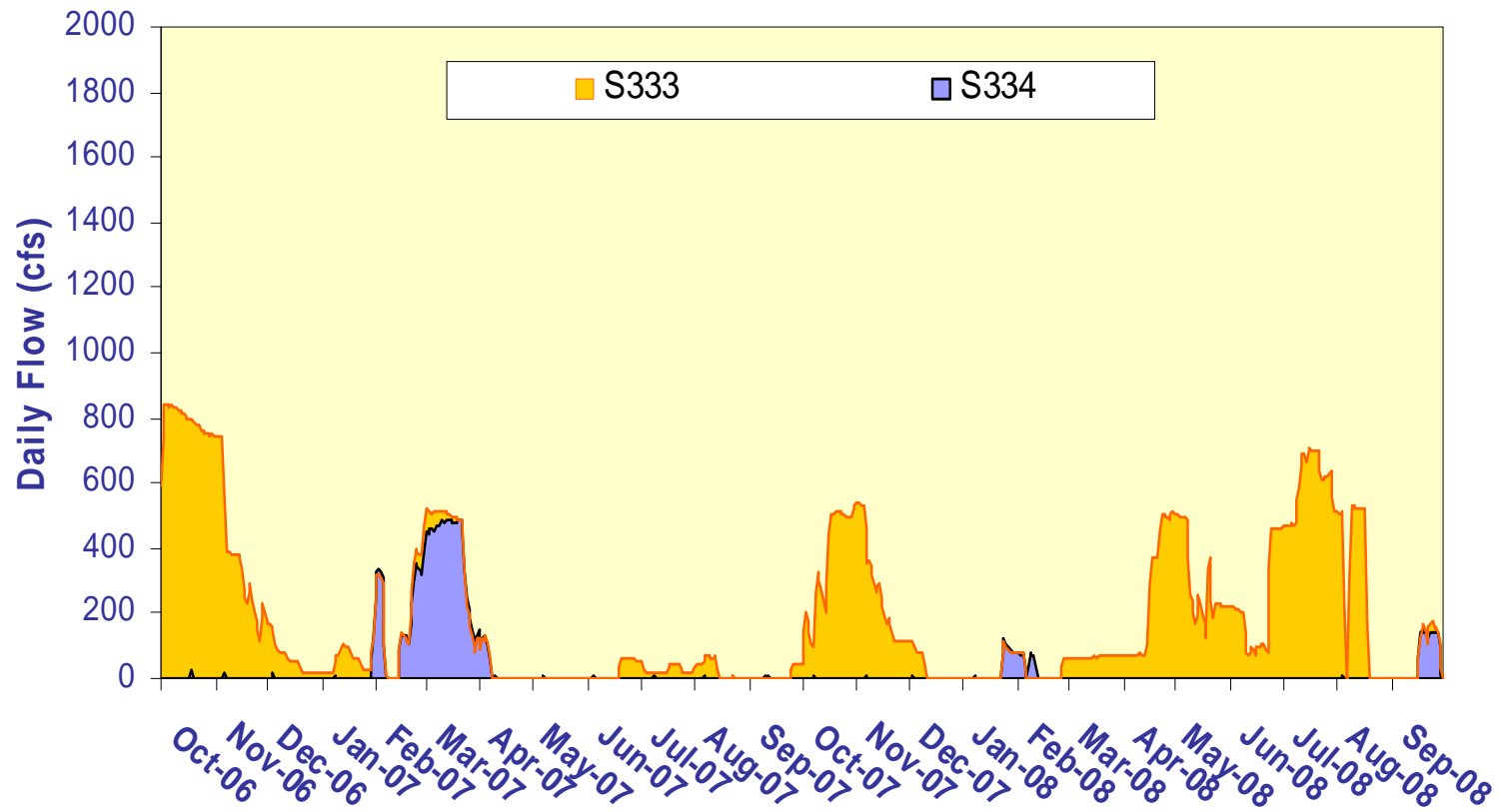
WY2008 12-month FWMC Calculations for Shark River Slough

Scenario	Description	Qualified 9/3/2008 Data Used?	12-month TP FWMC (ppb)	Met Long-Term Limit (10.2 ppb)?	Comments
1	Bi-weekly with 9/3/2008 data	Yes	10.2	Yes	Standard compliance calculation with 9/3/2008 data
2	Bi-weekly without 9/3/2008 data	No	10.6	No	Standard compliance calculation without 9/3/2008 data
3	Bi-weekly with 8/27/2008 and 9/10/2008 data	No	10.2	Yes	Used average TP from 8/27/2008 and 9/10/2008 events
4	Alternate bi-weekly data	No	9.9	Yes	Used alternate sampling events normally excluded from compliance calculations
5	Weekly data	No	10.2	Yes	Used all unqualified data for weekly sampling events

Shark River Slough Daily Flows by Structure

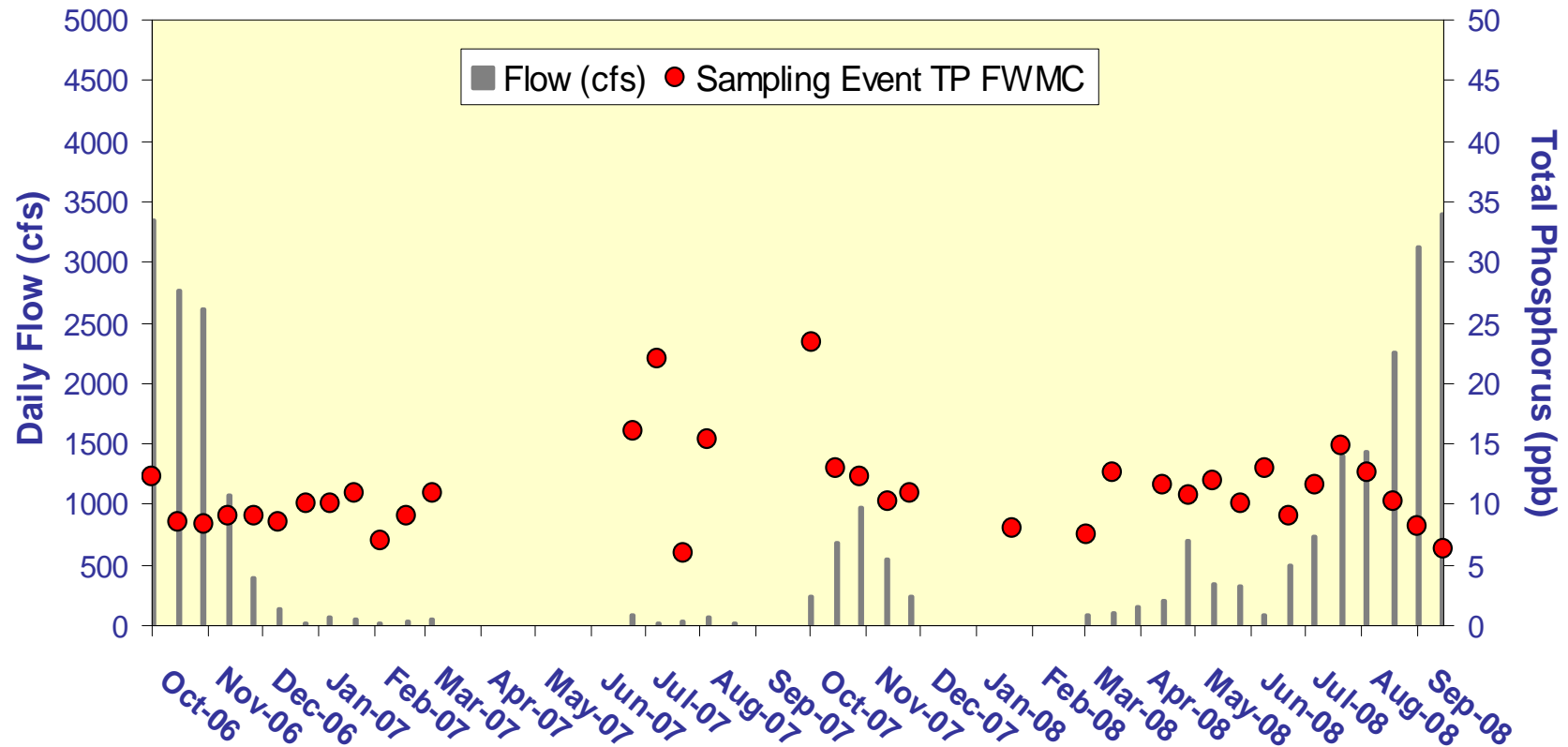


Daily flow at S333 and S334



Shark River Slough

Sampling Event Daily Flows and FWMC



Daily flow at Shark River Slough structures and the corresponding TP FWMCs for individual sampling events.