

Settlement Agreement

October - December 2004 Report

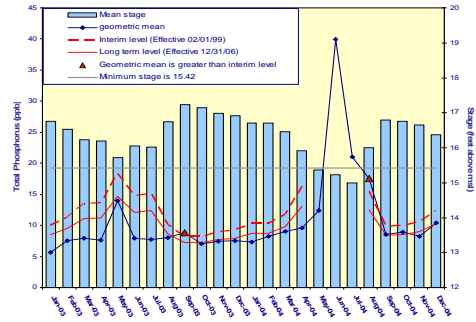
Prepared for the

Technical Oversight Committee

May 17, 2005



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



Month - Year	Geometric Mean Concentration (ppb)	Interim Level (ppb) Effective 2/1/99	Long Term Level (ppb) Effective 12/31/06	Average Stage (ft.NGVD)	Number of TP Samples	Number of Stage Measurements
Jan-2003	5.7	10.0	8.5	16.76	13	3
Feb-2003	7.5	11.3	9.5	16.54	11	3
Mar-2003	8.0	12.4	11.1	16.23	9	3
Apr-2003	7.6	12.7	11.2	16.20	12	3
May-2003	14.0	18.3	14.6	15.72	7	3
Jun-2003	7.9	14.8	12.1	16.06	11	3
Jul-2003	7.7	15.2	12.3	16.02	9	3
Aug-2003	8.0	10.1	8.6	16.74	14	3
Sep-2003	8.8	8.3	7.2	17.23	13	3
Oct-2003	7.0	8.3	7.2	17.15	14	3
Nov-2003	7.5	8.9	7.7	16.98	11	3
Dec-2003	7.6	9.3	8.0	16.91	14	3
Jan-2004	7.4	10.3	8.7	16.71	14	3
Feb-2004	8.2	10.3	8.7	16.71	14	3
Mar-2004	9.0	11.8	9.8	16.46	14	3
Apr-2004	9.6	16.3	13.1	15.91	9	3
May-2004	12.4	N/A	N/A	15.37	9	3
Jun-2004	40.0	N/A	N/A	15.22	2	3
Jul-2004	21.0	N/A	N/A	15.00	1	3
Aug-2004	17.5	15.4	12.5	16.00	12	3
Sep-2004	8.5	9.9	8.4	16.79	14	3
Oct-2004	8.9	10.0	8.5	16.76	13	3
Nov-2004	8.3	10.6	9.0	16.65	14	3
Dec-2004	10.4	12.4	10.3	16.37	13	3

Loxahatchee National Wildlife Refuge
Total Phosphorus Compliance Tracking

Refuge TP Compliance Tracking (October 2004 – March 2005)

Month - Year	Geometric Mean Concentration (ppb)	Interim Level (ppb) Effective 2/1/99	Long Term Level (ppb) Effective 12/31/06	Average Stage (ft.NGVD)	Number of TP Samples	Number of Stage Measurements
Oct-2004	8.9	10.0	8.5	16.76	13	3
Nov-2004	8.3	10.6	9.0	16.65	14	3
Dec-2004	10.4	12.4	10.3	16.37	13	3
Jan-2005	7.9	13.9	11.4	16.17	12	3
Feb-2005	9.4	15.1	12.3	16.03	11	3
Mar-2005	13.4	16.6	13.4	15.88	11	3

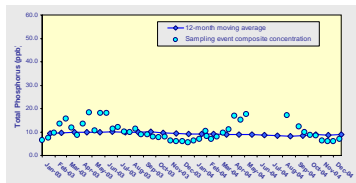
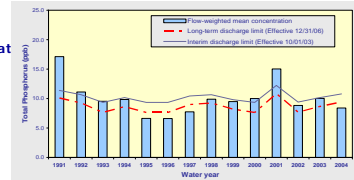
Comparison of Limits Using Alternative Stage Values

October 2004	1-7 & 1-9	1-7 & 1-9 & 1-8T	1-7 & 1-9 & G94C_Head	1-7 & 1-9 & Staff Gauge
TP geomean	8.9			
interim limits	10.3	10.4	10.2	10.0
long term limits	8.7	8.8	8.7	8.5
average stages	16.71	16.69	16.73	16.76

November 2004	1-7 & 1-9	1-7 & 1-9 & 1-8T	1-7 & 1-9 & G94C_Head	1-7 & 1-9 & Staff Gauge
TP geomean	8.3			
interim limits	11.0	11.0	10.8	10.6
long term limits	9.3	9.3	9.1	9.0
average stages	16.58	16.58	16.61	16.65

Flow-weighted Mean Concentrations Inflows to Everglades National Park through Shark River Slough

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



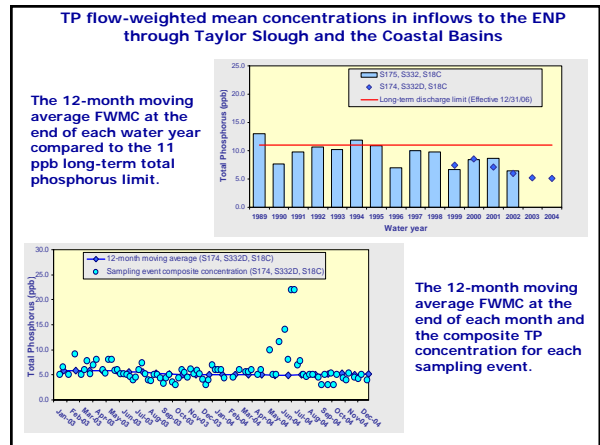
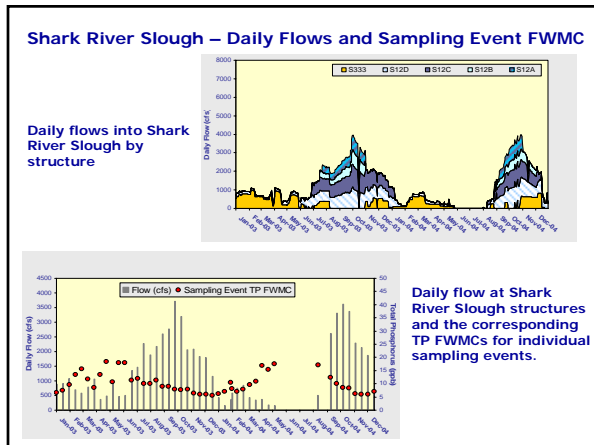
12-month moving average at the end of each water year and the composite TP concentration for each sampling event.

**Shark River Slough
TP Concentration
Compliance Tracking**

12-Month Period Ending On	Total Period Flow (Kac-ft)	Flow Weighted Mean Total Phosphorus (ppb)	Interim Limit (ppb)		Long Term Limit (ppb)		Percent of Sampling Events Greater than 10 ppb	
			Effective 10/1/2003	Effective 12/31/2006	Guideline	Observed		
31-Jan-02	821.1	9.5	10.3	8.8	45.6	34.8		
28-Feb-02	843.6	9.7	10.2	8.7	45.2	39.1		
31-Mar-02	812.1	9.9	10.3	8.9	46.1	42.8		
30-Apr-02	822.1	9.9	10.2	8.8	45.5	43.5		
31-May-02	871.3	10.0	10.1	8.6	44.5	45.8		
30-Jun-02	901.1	10.2	10.0	8.4	43.8	50.0		
31-Jul-02	891.3	9.8	10.0	8.5	44.0	50.0		
31-Aug-02	829.3	9.9	10.2	8.7	45.3	50.0		
30-Sep-02	850.1	10.0	10.2	8.7	45.1	50.0		
31-Oct-02	921.8	9.7	9.9	8.3	43.2	50.0		
30-Nov-02	1001.5	9.5	9.6	7.9	41.4	46.2		
31-Dec-02	1076.8	9.1	9.4	7.6	40.1	46.2		
31-Jan-03	1049.0	9.2	9.4	7.7	40.4	46.2		
29-Feb-03	1023.9	9.1	9.5	7.8	40.7	44.4		
31-Mar-03	1036.7	8.9	9.4	7.7	40.7	37.0		
30-Apr-03	1012.9	9.0	9.5	7.9	41.2	40.7		
31-May-03	980.2	9.0	9.7	8.0	41.9	40.7		
30-Jun-03	942.5	8.7	9.8	8.2	42.8	36.0		
31-Jul-03	832.0	8.4	10.2	8.8	45.5	27.3		
31-Aug-03	733.0	8.2	10.7	9.3	48.2	28.6		
30-Sep-03	704.4	8.4	10.8	9.4	49.0	35.0		
31-Oct-03	727.8	8.9	10.7	9.3	48.3	35.0		
30-Nov-03	760.3	8.7	10.6	9.1	47.4	33.3		
31-Dec-03	738.5	9.0	10.7	9.2	48.0	35.0		

Shark River Slough TP Concentration Compliance Tracking for the Reporting Quarter (October – December 2004)

12-Month Period Ending On	Total Period Flow (Kac-ft)	Flow Weighted Mean Total Phosphorus (ppb)	Interim Limit (ppb)	Long Term Limit (ppb)	Percent of Sampling Events Greater than 10 ppb	
			Effective 10/1/2003	Effective 12/31/2006	Guideline	Observed
31-Oct-04	727.8	8.9	10.7	9.3	48.3	35.0
30-Nov-04	760.3	8.7	10.6	9.1	47.4	33.3
31-Dec-04	738.5	9.0	10.7	9.2	48.0	35.0



**Taylor Slough and the Coastal Basins
TP Concentration
Compliance Tracking**

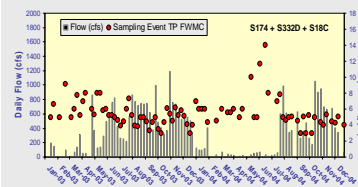
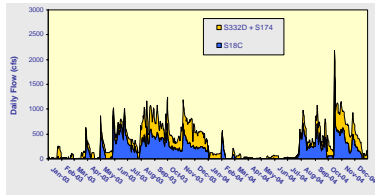
12-Month Period Ending On	Total Period Flow (Kac-ft)	Flow Weighted Mean Total Phosphorus (ppb)	Limit (Effective 12/31/06)	Percent of Sampling Events Greater than 10 ppb	
			(ppb)	Guideline	Observed
31-Jan-02	224.2	5.8	11.0	53.1	5.0
28-Feb-02	229.9	5.9	11.0	53.1	5.0
31-Mar-02	230.5	5.9	11.0	53.1	4.9
30-Apr-02	231.5	5.8	11.0	53.1	4.8
31-May-02	244.2	5.8	11.0	53.1	0.0
30-Jun-02	249.8	5.6	11.0	53.1	0.0
31-Jul-02	209.0	5.6	11.0	53.1	0.0
31-Aug-02	216.1	5.3	11.0	53.1	0.0
30-Sep-02	221.9	5.2	11.0	53.1	0.0
31-Oct-02	233.8	5.0	11.0	53.1	0.0
30-Nov-02	276.6	5.1	11.0	53.1	0.0
31-Dec-02	297.9	5.0	11.0	53.1	0.0
31-Jan-03	295.9	5.1	11.0	53.1	0.0
29-Feb-03	301.4	5.0	11.0	53.1	0.0
31-Mar-03	297.9	5.0	11.0	53.1	0.0
30-Apr-03	292.3	5.0	11.0	53.1	0.0
31-May-03	274.8	4.9	11.0	53.1	2.2
30-Jun-03	238.0	4.9	11.0	53.1	6.7
31-Jul-03	224.3	5.0	11.0	53.1	11.4
31-Aug-03	202.7	5.1	11.0	53.1	11.4
30-Sep-03	192.6	5.2	11.0	53.1	11.4
31-Oct-03	210.1	5.3	11.0	53.1	11.9
30-Nov-03	206.7	5.1	11.0	53.1	11.9
31-Dec-03	193.0	5.2	11.0	53.1	12.5

**Taylor Slough and the Coastal Basins
TP Concentration Compliance Tracking
For the Reporting Quarter (October – December 2004)**

12-Month Period Ending On	Total Period Flow (Kac-ft)	Flow Weighted Mean Total Phosphorus (ppb)	Limit (Effective 12/31/06)	Percent of Sampling Events Greater than 10 ppb	
			(ppb)	Guideline	Observed
31-Oct-04	210.1	5.3	11.0	53.1	11.9
30-Nov-04	206.7	5.1	11.0	53.1	11.9
31-Dec-04	193.0	5.2	11.0	53.1	12.5

Taylor Slough and S18C – Daily Flows and Sampling Event FWMC

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



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