

## Loxahatchee National Wildlife Refuge TP Tracking Report

Mon-Year	geometric mean	interim limit	long term limit	average stage	n TP data	n stage data
Jan-1999	6.9	8.8	7.6	17.02	14	3
Feb-1999	6.8	10.8	9.1	16.62	11	3
Mar-1999	9.1	14.1	11.6	16.14	9	3
Apr-1999	11.9	N/A	N/A	15.35	3	3
May-1999	16.4	N/A	N/A	15.20	2	3
Jun-1999*	14.2	11.7	9.8	16.47	13	3
Jul-1999	11.1	14.4	11.8	16.11	10	3
Aug-1999	12.7	15.1	12.3	16.03	8	3
Sep-1999*	10.3	9.9	8.4	16.79	14	3
Oct-1999*	10.3	8.3	7.2	17.28	14	3
Nov-1999*	9.0	8.3	7.2	17.25	14	3
Dec-1999	9.1	9.1	7.9	16.94	14	3
Jan-2000	8.1	10.5	8.9	16.67	14	3
Feb-2000	9.6	11.8	9.9	16.45	13	3
Mar-2000	10.6	14.8	12.1	16.06	12	3
Apr-2000	10.4	12.9	10.6	16.30	14	3
May-2000	9.3	14.6	11.9	16.09	11	3
(May-2000)	11.0	15.0	12.2	16.05	14,11,13,12	3,3,3,3
Jun-2000	12.4	N/A	N/A	15.31	6	3
Jul-2000	10.8	17.0	13.7	15.83	6	3
Aug-2000	9.4	14.1	11.6	16.14	10	3
Sep-2000	10.2	13.5	11.1	16.22	11	3
Oct-2000*	8.8	8.3	7.2	17.49	13	3
Nov-2000	7.5	8.8	7.6	17.01	14	3
Dec-2000	6.0	11.2	9.4	16.55	9	3
Jan-2001	7.2	14.3	11.7	16.13	8	3
Feb-2001	9.6	17.2	13.8	15.82	9	3
Mar-2001	19.3	NA	NA	15.08	2	3
Apr-2001	11.5	21.4	16.9	15.48	6	3
May-2001	18.3	NA	NA	14.88	2	3
Jun-2001	15.1	NA	NA	15.42	9	3

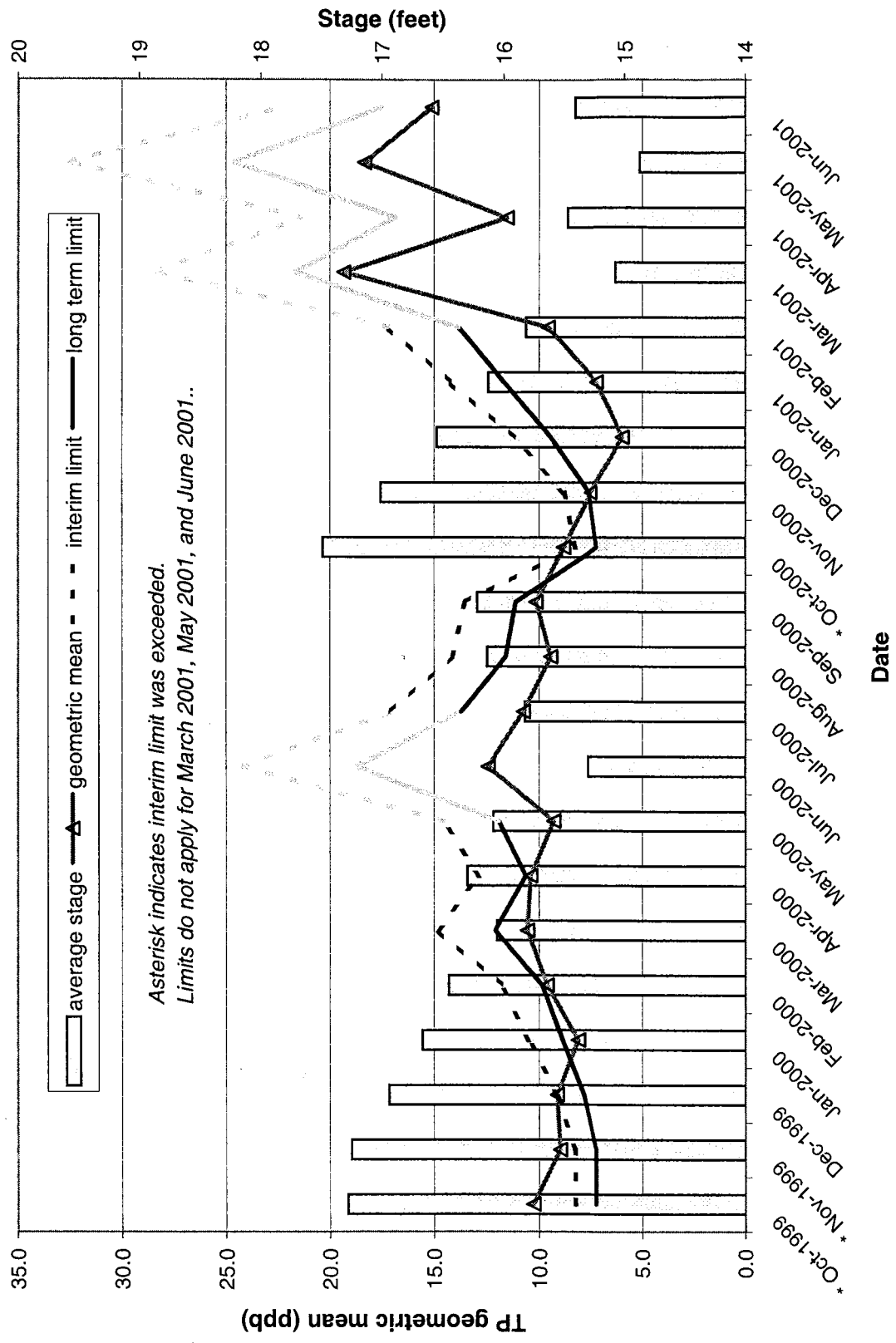
\* denotes the month of which the geometric mean concentration was higher than the interim limit.

note: average stage is average of 3 stations on the sampling dates.

(): When Lake Ocheechee Recess special sampling data are included, May 2000 is as following:

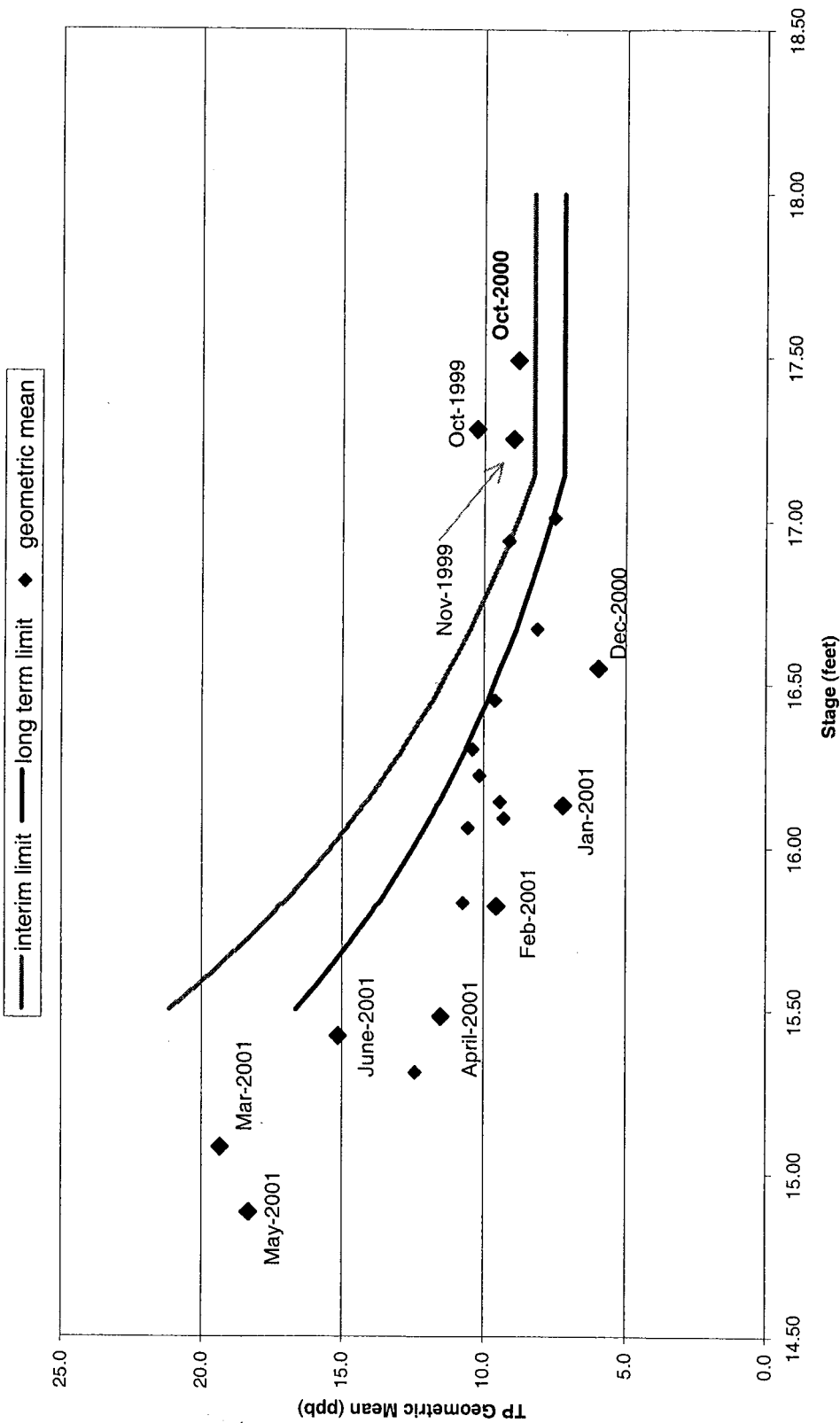
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### Loxahatchee National Wildlife Refuge Monthly Total Phosphorus Concentrations and Limits



Asterisk indicates interim limit was exceeded.  
Limits do not apply for March 2001, May 2001, and June 2001..

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Relationship between Stage and TP Geometric Mean for LNWR.

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Loxahatchee National Wildlife Refuge Interior Marsh TP Concentration

Year/Date	LOX3	LOX4	LOX5	LOX6	LOX7	LOX8	LOX9	LOX10	LOX11	LOX12	LOX13	LOX14	LOX15	LOX16
10/13/1998			0.008	0.009	0.009	0.006	0.009					0.01	0.008	0.011
11/16/1998	0.009	0.01	0.005	0.006	0.005	0.005	0.005	0.007	0.006	0.006	0.006	0.006	0.006	0.009
11/17/1998	0.008	0.008	0.009	0.008	0.011	0.008	0.007	0.007	0.01	0.006	0.006	0.006	0.006	0.007
12/7/1998	0.014	0.01	0.009	0.006	0.005	0.005	0.01	0.009	0.005	0.006	0.006	0.006	0.005	0.007
1/4/1999			0.007	0.007	0.006	0.009	0.006		0.007	0.007	0.007	0.007	0.007	0.007
2/16/1999			0.01	0.01	0.011	0.011			0.011	0.007	0.008	0.007	0.008	0.01
3/15/1999			0.016	0.016	0.009	0.017	0.015	0.016	0.011	0.013	0.015	0.014	0.009	0.012
3/16/1999			0.012	0.01	0.016	0.012	0.012		0.012	0.009		0.011	0.01	0.009
4/12/1999			0.011	0.013	0.013	0.016			0.015	0.011		0.012	0.01	0.009
4/13/1999	0.01	0.013	0.009	0.01	0.013	0.011	0.008	0.007	0.014	0.009	0.01	0.017	0.009	0.009
5/27/1999	0.013	0.008	0.011	0.006	0.007	0.009	0.012	0.006	0.014	0.007	0.013	0.007	0.009	0.009
10/12/1999	0.011	0.011	0.012	0.009	0.009	0.013	0.011	0.008	0.01	0.007	0.009	0.006	0.008	0.007
10/13/1999	0.01	0.008	0.012	0.008	0.008	0.008	0.008	0.008	0.009	0.006	0.011	0.006	0.007	0.007
11/16/1999	0.01	0.01	0.023	0.007	0.009	0.012	0.011	0.011	0.013	0.006	0.011	0.007	0.006	0.008
12/7/1999	0.012	0.01	0.011	0.011	0.011	0.016	0.013	0.009	0.011	0.008	0.011	0.01	0.008	0.011
1/4/2000	0.012	0.009	0.009	0.009	0.009	0.011	0.007	0.01	0.01	0.008	0.011	0.009	0.008	0.01
2/14/2000	0.013	0.013	0.012	0.007	0.012	0.01	0.015	0.007	0.016	0.007	0.017	0.01	0.008	0.014
2/15/2000	0.014	0.009	0.016	0.006	0.01	0.011	0.008	0.008	0.012	0.008	0.01	0.008	0.01	0.01
3/14/2000	0.02	0.008	0.011	0.009	0.012	0.012	0.013		0.019	0.008	0.017	0.013	0.01	
4/11/2000	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.006	0.009	0.008	0.008	0.01
4/28/2000	0.013	0.013	0.012	0.007	0.012	0.01	0.015	0.007	0.016	0.007	0.017	0.01	0.008	0.014
5/5/2000*	0.014	0.009	0.016	0.006	0.01	0.011	0.008	0.008	0.012	0.008	0.01	0.008	0.01	0.01
5/8/2000			0.011	0.01	0.011	0.009	0.011		0.011	0.006	0.009	0.008	0.008	0.01
5/12/2000*	0.02	0.008	0.011	0.008	0.011	0.011	0.016	0.018	0.014	0.008	0.012	0.014	0.011	
5/19/2000*	0.011	0.011	0.011	0.009	0.012	0.012	0.013		0.011	0.009	0.018	0.01	0.008	0.011
6/5/2000						0.011								
6/6/2000														
7/13/2000				0.013	0.01									
7/18/2000				0.009	0.008		0.011	0.008		0.011		0.012	0.009	0.01
8/14/2000				0.007	0.009	0.015	0.009	0.012	0.009	0.01		0.01	0.009	0.01
8/15/2000				0.007	0.009	0.007	0.008	0.008	0.009	0.011		0.008	0.008	0.01
9/11/2000				0.008	0.007	0.012	0.008	0.008	0.009	0.009		0.009	0.005	0.008
9/12/2000	0.013	0.012	0.01	0.008	0.007	0.012	0.008	0.008	0.009	0.009	0.008	0.018	0.006	0.007
10/10/2000	0.008	0.009	0.007	0.006	0.006	0.006	0.007	0.006	0.008	0.007	0.008	0.006	0.005	0.007
11/6/2000				0.006	0.004	0.006			0.005	0.006	0.007	0.006	0.005	0.007
12/6/2000				0.006	0.011	0.011			0.009	0.004	0.008	0.007	0.005	0.007
12/7/2000				0.008	0.019	0.013			0.009	0.007	0.011	0.007	0.007	0.01
2/12/2001									0.014	0.011	0.021	0.014	0.009	0.011
2/13/2001									0.014	0.011	0.011	0.014	0.009	0.011
3/13/2001									0.018	0.013	0.017	0.02	0.009	0.013
4/9/2001									0.013	0.013	0.009	0.01	0.009	0.01
5/7/2001									0.013	0.013	0.009	0.01	0.009	0.01
6/4/2001									0.011	0.011	0.009	0.01	0.009	0.01
7/16/2001									0.011	0.011	0.009	0.01	0.009	0.01
7/17/2001									0.011	0.011	0.009	0.01	0.009	0.01

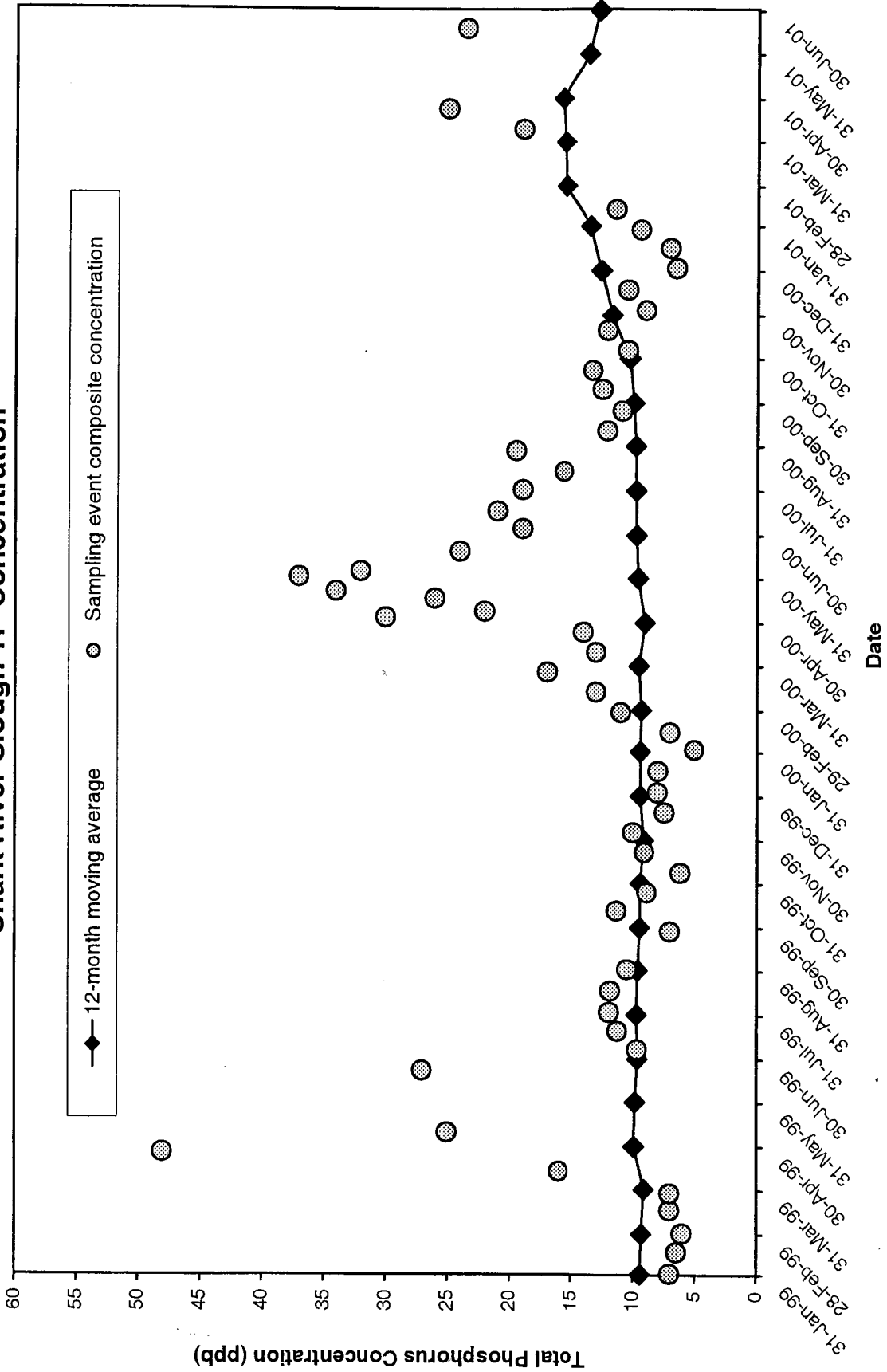
\* Lake Okechobee Basin Special Sampling

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**Shark River Slough TP Tracking Report**

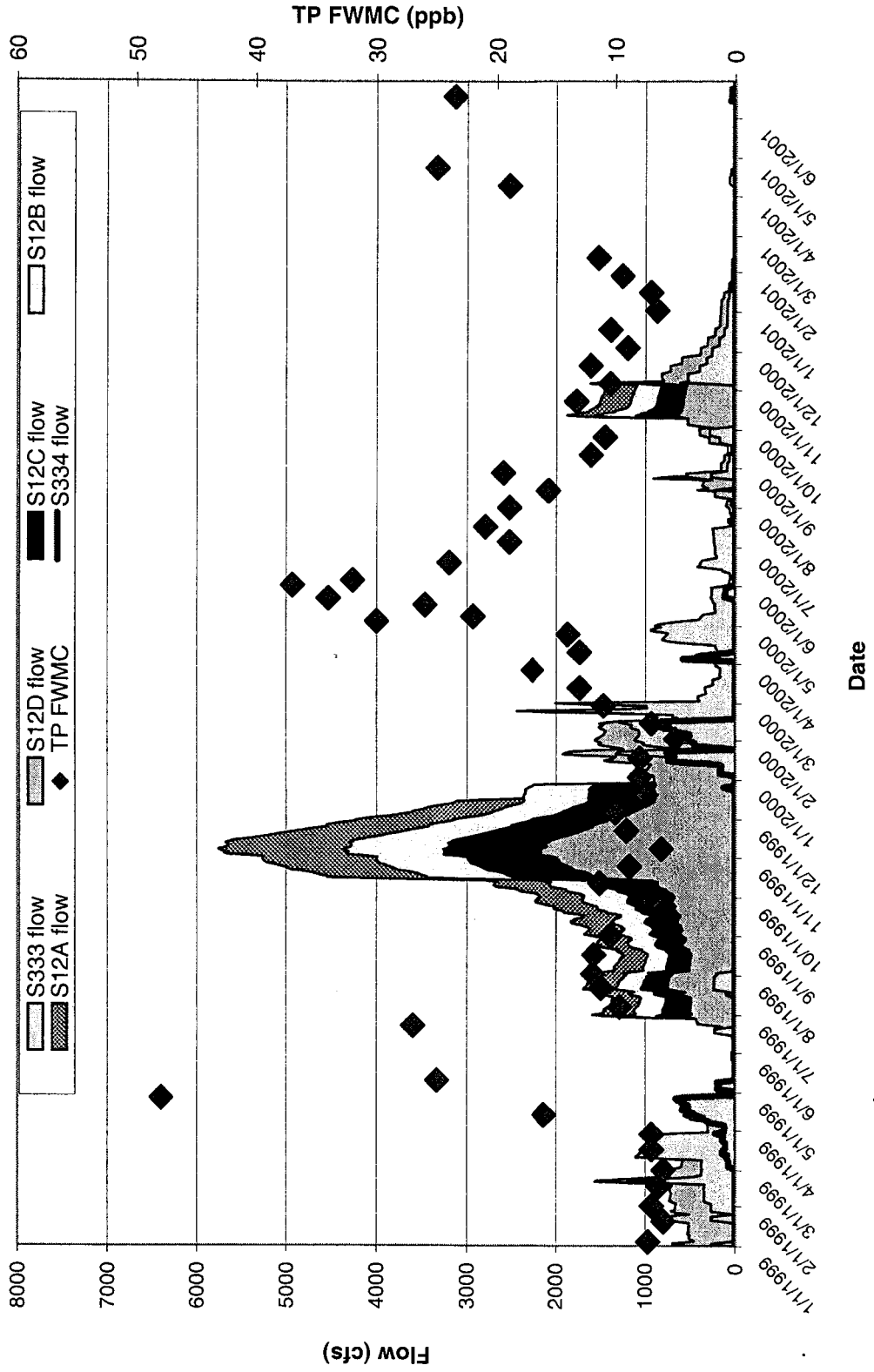
mm/yyyy-mm/yyyy	total_flow (Kac-ft)	fwmc (ppb)	cint (ppb)	clong (ppb)	Exc Freq (%)	Frq Limit (%)
10/1998-09/1999	939.85	9.5	9.8	8.2	39.1	42.9
11/1998-10/1999	1084.42	9.4	9.4	7.6	39.1	40.1
12/1998-11/1999	1297.52	9.1	9.4	7.6	39.1	40.1
01/1999-12/1999	1344.77	9.4	9.4	7.6	39.1	40.1
02/1999-01/2000	1395.07	9.4	9.4	7.6	39.1	40.1
03/1999-02/2000	1415.46	9.4	9.4	7.6	41.7	40.1
04/1999-03/2000	1385.73	9.6	9.4	7.6	52.2	40.1
05/1999-04/2000	1385.05	9.1	9.4	7.6	52.2	40.1
06/1999-05/2000	1401.48	9.6	9.4	7.6	57.7	40.1
07/1999-06/2000	1395.92	9.8	9.4	7.6	60.7	40.1
08/1999-07/2000	1294.60	9.8	9.4	7.6	64.3	40.1
09/1999-08/2000	1214.63	9.8	9.4	7.6	65.5	40.1
10/1999-09/2000	1096.10	10.0	9.4	7.6	69.0	40.1
11/1999-10/2000	925.04	10.3	9.9	8.3	72.4	43.2
12/1999-11/2000	642.06	11.7	11.1	9.8	79.3	50.8
01/2000-12/2000	463.95	12.7	12.0	10.8	82.8	56.4
02/2000-01/2001	367.02	13.5	12.5	11.3	80.0	59.8
03/2000-02/2001	298.43	15.5	12.9	11.7	85.7	62.2
04/2000-03/2001	275.89	15.6	13.0	11.9	84.6	63.1
05/2000-04/2001	250.39	15.8	13.2	12.0	84.6	64.0
06/2000-05/2001	230.86	13.7	13.3	12.1	81.8	64.7
07/2000-06/2001	220.96	12.8	13.3	12.2	80.0	65.1

### Shark River Slough TP Concentration



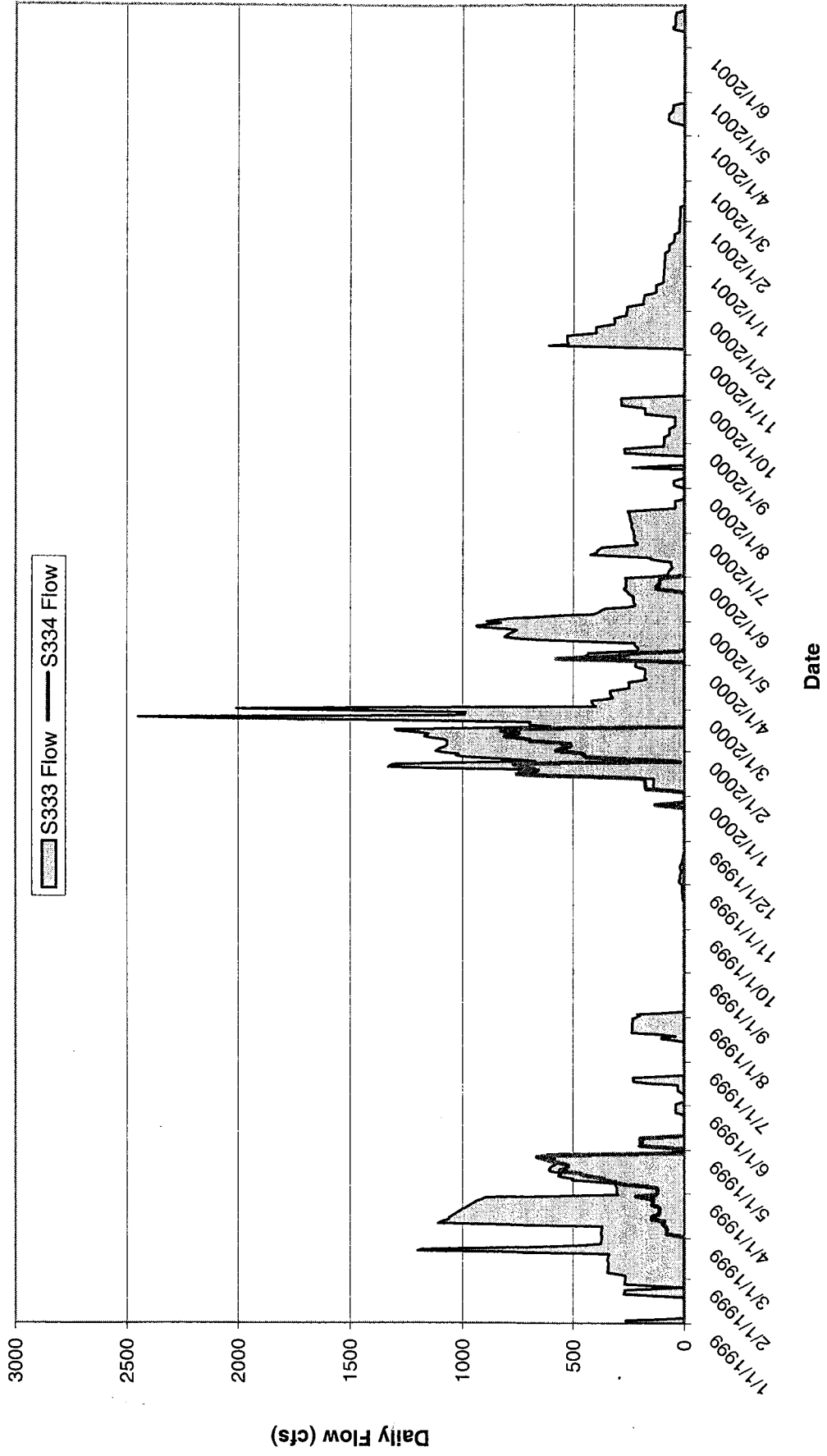
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Shark River Slough Flow and Flow-Weighted Mean TP Conc.



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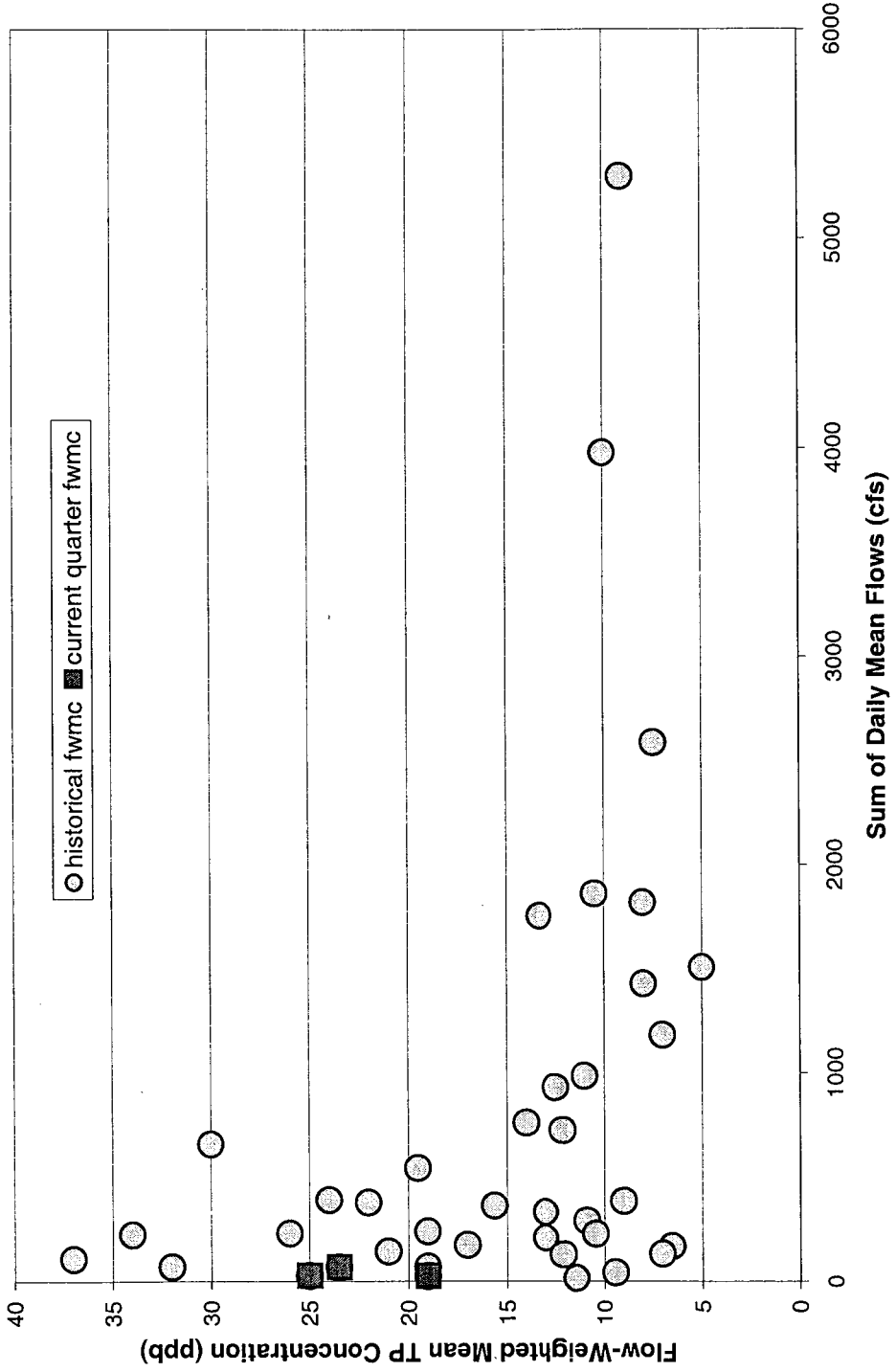
Comparison of S334 Flow and S333 Flow





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### Shark River Slough Composite Flow and TP Concentrations on Sampling Events for 10/1999 through 6/2001



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**Shark River Slough TP Data**

date	S12A	S12B	S12C	S12D	S333	S334
1/2/2001	0.01	0.007	0.006	0.006	0.007	
1/16/2001	0.01	0.008	0.006	0.006	0.008	
1/29/2001	0.011	0.009	0.009	0.01	0.009	0.019
2/12/2001	0.028	0.012	0.011	0.011	0.012	
2/26/2001	0.026	0.018	0.017	0.015	0.015	0.023
3/12/2001	0.055	0.029	0.02	0.016	0.015	
3/26/2001	0.06	0.04	0.046	0.021	0.029	0.016
4/9/2001	0.075	0.027	0.019	0.017	0.019	
4/23/2001	0.072	0.031	0.029	0.023	0.025	0.018
5/7/2001	0.061	0.025	0.028	0.026	0.029	
5/21/2001	0.067	0.048	0.039	0.031	0.029	0.022
6/4/2001	0.065	0.043	0.038	0.036	0.036	
6/18/2001	0.064	0.034	0.031	0.021	0.025	0.022
7/2/2001	0.036	0.021	0.022	0.02	0.021	
7/16/2001	0.028	0.031	0.026	0.022	0.018	

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## Taylor Sough and Coastal Basins TP Tracking Report

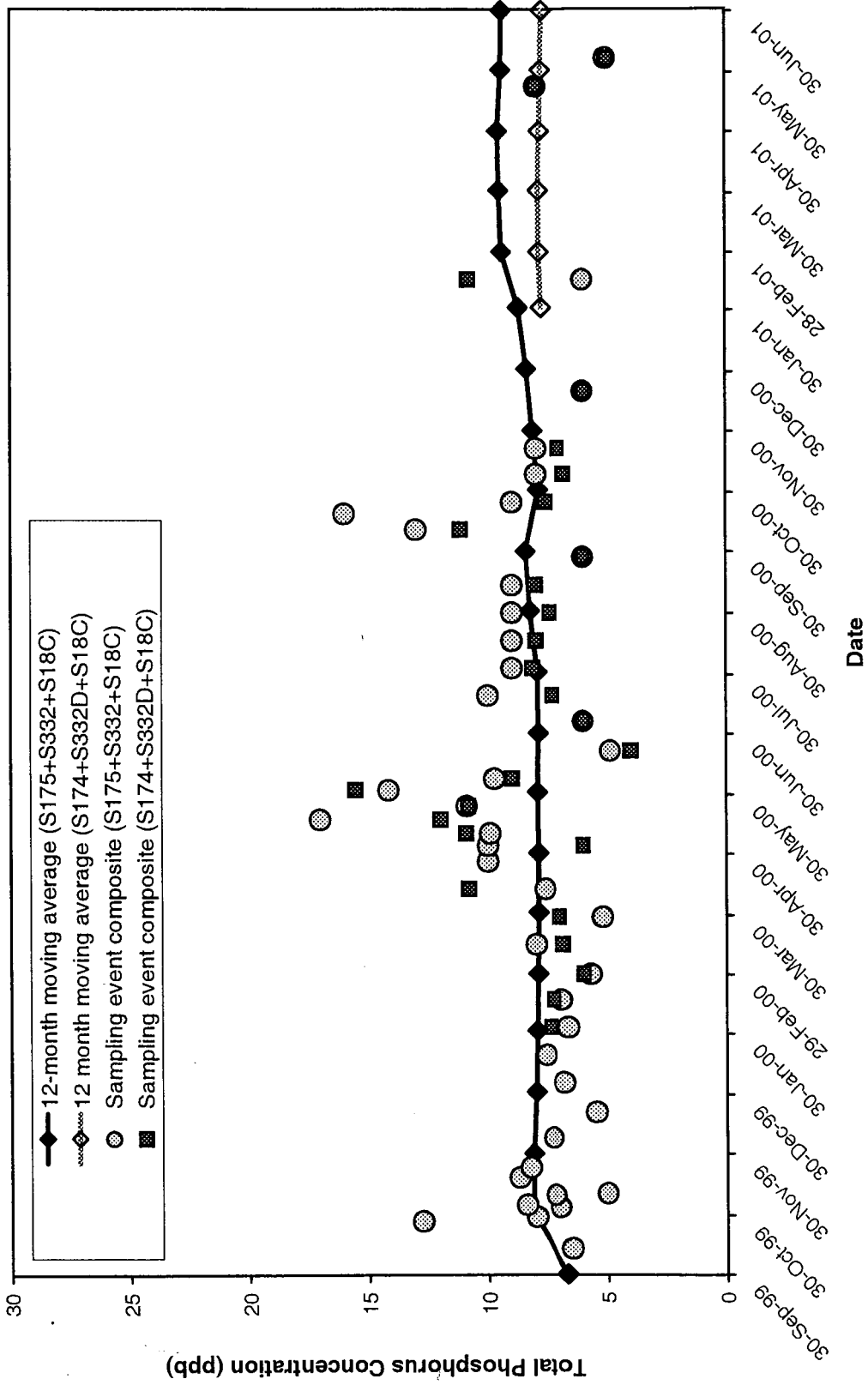
### For S174+S332D+S18C

mm/yyyy-mm/yyyy	total_flow (Kac-ft)	fwmc (ppb)	cint (ppb)	clong (ppb)	ExFrq (%)	FrqLimit (%)
02/2000-01/2001	307.9	7.8	11.0	11.0	15.4	53.1
03/2000-02/2001	281.6	7.9	11.0	11.0	21.6	53.1
04/2000-03/2001	269.5	7.9	11.0	11.0	22.9	53.1
05/2000-04/2001	260.1	7.9	11.0	11.0	20.6	53.1
06/2000-05/2001	254.1	7.8	11.0	11.0	12.9	53.1
07/2000-06/2001	249.0	7.8	11.0	11.0	10.0	53.1

### For S175+S332+S18C

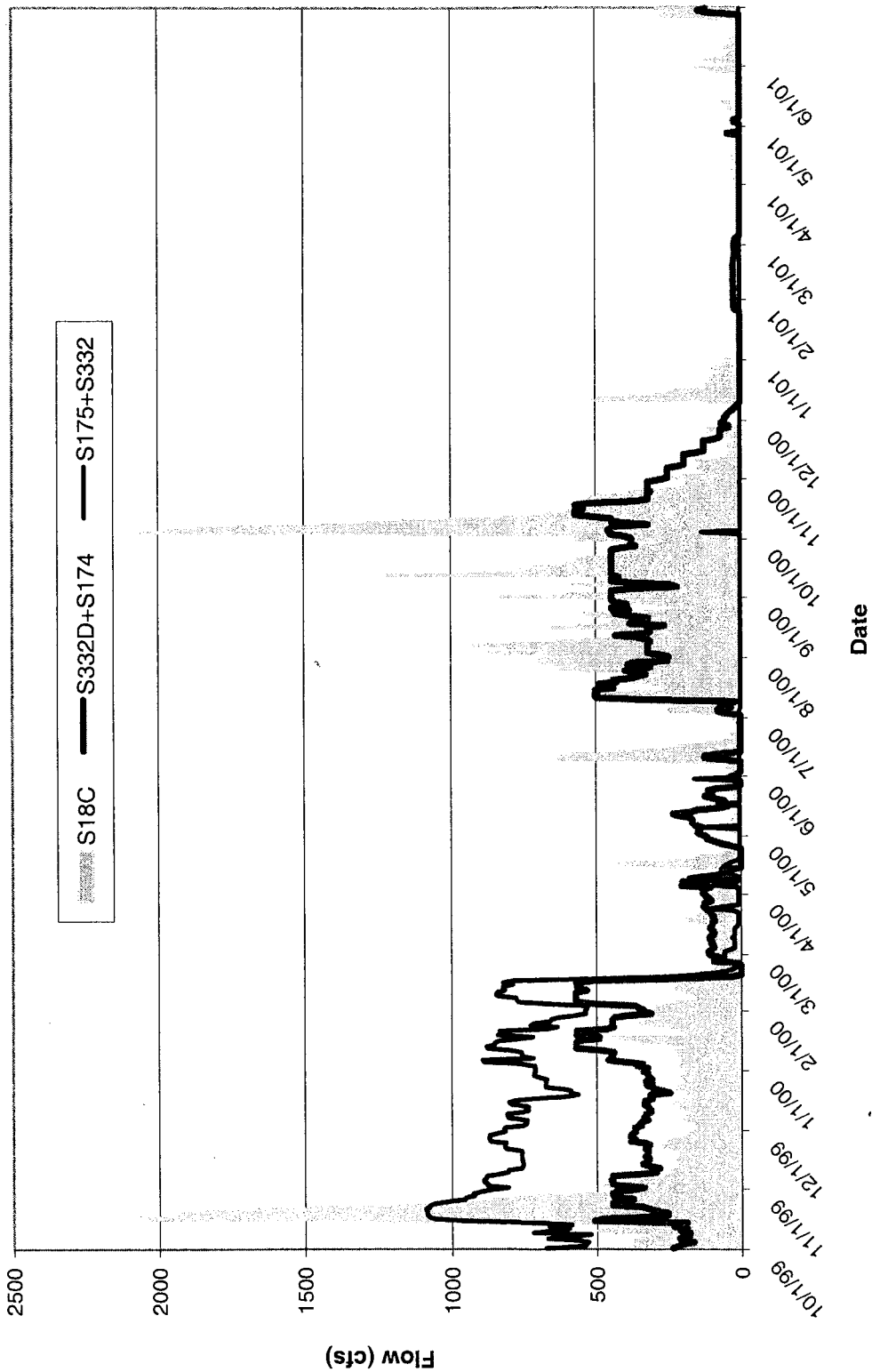
mm/yyyy-mm/yyyy	total_flow (Kac-ft)	fwmc (ppb)	cint (ppb)	clong (ppb)	ExFrq (%)	FrqLimit (%)
10/1998-09/1999	279.9	6.7	11.0	11.0	12.1	53.1
11/1998-10/1999	338.8	8.1	11.0	11.0	17.1	53.1
12/1998-11/1999	365.2	8.1	11.0	11.0	15.4	53.1
01/1999-12/1999	413.6	8.0	11.0	11.0	15.4	53.1
02/1999-01/2000	450.0	8.0	11.0	11.0	15.4	53.1
03/1999-02/2000	479.2	7.9	11.0	11.0	15.0	53.1
04/1999-03/2000	485.4	7.9	11.0	11.0	15.4	53.1
05/1999-04/2000	492.7	7.9	11.0	11.0	12.8	53.1
06/1999-05/2000	493.4	8.0	11.0	11.0	14.6	53.1
07/1999-06/2000	467.3	7.9	11.0	11.0	16.7	53.1
08/1999-07/2000	456.6	8.0	11.0	11.0	17.1	53.1
09/1999-08/2000	445.1	8.3	11.0	11.0	18.0	53.1
10/1999-09/2000	432.1	8.4	11.0	11.0	14.3	53.1
11/1999-10/2000	374.8	7.9	11.0	11.0	12.1	53.1
12/1999-11/2000	315.0	8.1	11.0	11.0	13.8	53.1
01/2000-12/2000	265.9	8.4	11.0	11.0	14.3	53.1
02/2000-01/2001	204.7	8.7	11.0	11.0	15.4	53.1
03/2000-02/2001	168.4	9.4	11.0	11.0	16.7	53.1
04/2000-03/2001	161.1	9.5	11.0	11.0	18.2	53.1
05/2000-04/2001	153.6	9.6	11.0	11.0	20.0	53.1
06/2000-05/2001	153.0	9.4	11.0	11.0	11.8	53.1
07/2000-06/2001	147.7	9.4	11.0	11.0	6.7	53.1

### Taylor Slough and Coastal Basins TP Concentration



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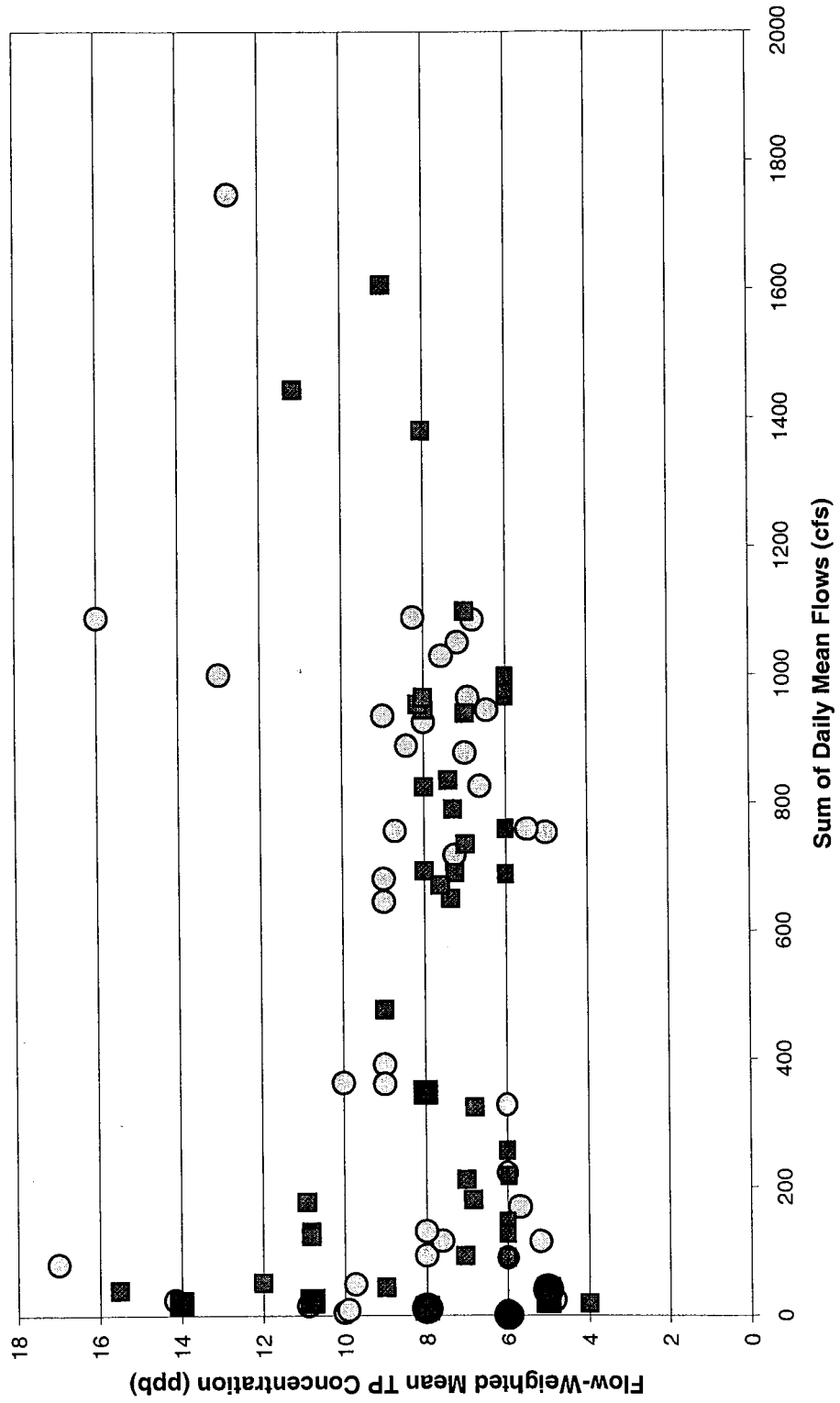
### Taylor Slough and Coastal Basins Flow



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### Taylor Slough and Coastal Basins Composite Flow and TP Concentrations on Sampling Events for Oct. 1999 through June 2001

○ S175+S332+S18C ■ S174+S332D+S18C ● S175+S332+S18C this year ■ S174+S332D+S18C this year



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**Taylor Sough and Coastal Basins TP Concentration**

	S175	S332	S18C	S332D	S176/S174
1/3/2001	0.008	0.008	0.005	0.007	
1/11/2001				0.008	
1/17/2001	0.007	0.007	0.005	0.005	0.007
1/25/2001				0.005	
1/31/2001	0.008	0.007	0.006	0.005	0.005
2/8/2001				0.006	
2/14/2001	0.013	0.009	0.006	0.01	0.011
2/22/2001				0.007	
2/28/2001	0.011	0.008	0.008	0.008	0.014
3/8/2001				0.01	
3/14/2001	0.008	0.006	0.008	0.007	0.007
3/22/2001				0.011	
3/28/2001	0.01	0.006	0.008	0.011	0.011
4/5/2001				0.008	
4/11/2001	0.005	0.009	0.008	0.008	0.007
4/25/2001	0.007	0.007	0.007	0.01	0.009
5/3/2001				0.01	
5/9/2001	0.006	0.006	0.008	0.01	
5/17/2001				0.011	
5/23/2001	0.023	0.01	0.008	0.014	0.013
5/31/2001				0.008	
6/6/2001	0.008	0.006	0.005	0.005	
6/14/2001				0.005	
6/20/2001	0.006	0.004	0.006	0.005	0.005
6/28/2001				0.008	
7/5/2001	0.011	0.006	0.004	0.007	
7/12/2001				0.007	
7/18/2001	0.008	0.006	0.005	0.006	0.006

**DRAFT****S332D auto sampler TP data**

station	projects	date	type	value
S332D	ENP	4/25/2000	7	0.009
S332D	ENP	5/4/2000	7	0.007
S332D	ENP	5/10/2000	7	0.011
S332D	ENP	5/17/2000	7	0.011
S332D	ENP	5/24/2000	7	0.014
S332D	ENP	6/1/2000	7	0.014
S332D	ENP	6/7/2000	7	0.016
S332D	ENP	6/14/2000	7	0.009
S332D	ENP	6/21/2000	7	0.010
S332D	ENP	6/28/2000	7	0.010
S332D	ENP	7/5/2000	7	0.007
S332D	ENP	7/12/2000	7	0.007
S332D	ENP	7/19/2000	7	0.009
S332D	ENP	7/25/2000	7	0.006
S332D	ENP	7/31/2000	7	0.009
S332D	ENP	8/8/2000	7	0.007
S332D	ENP	8/15/2000	7	0.006
S332D	ENP	8/23/2000	7	0.006
S332D	ENP	8/30/2000	7	0.008
S332D	ENP	9/5/2000	7	0.006
S332D	ENP	9/13/2000	7	0.009
S332D	ENP	9/19/2000	7	0.006
S332D	ENP	9/27/2000	7	0.005
S332D	ENP	10/3/2000	7	0.007
S332D	ENP	10/11/2000	7	0.039
S332D	ENP	10/18/2000	7	0.011
S332D	ENP	10/25/2000	7	0.010
S332D	ENP	10/31/2000	7	0.008
S332D	ENP	11/8/2000	7	0.007
S332D	ENP	11/15/2000	7	0.006
S332D	ENP	11/21/2000	7	0.004
S332D	ENP	11/29/2000	7	0.006
S332D	ENP	12/6/2000	7	0.008
S332D	ENP	12/21/2000	7	0.028
S332D	ENP	1/3/2001	7	0.007
S332D	ENP	1/11/2001	7	0.005
S332D	ENP	1/18/2001	7	0.007
S332D	ENP	1/25/2001	7	0.012
S332D	ENP	2/1/2001	7	0.016
S332D	ENP	2/14/2001	7	0.038
S332D	ENP	2/22/2001	7	0.045
S332D	ENP	3/1/2001	7	0.023
S332D	ENP	3/22/2001	7	0.017
S332D	ENP	3/29/2001	7	0.016
S332D	ENP	4/5/2001	7	0.011
S332D	ENP	4/12/2001	7	0.007
S332D	ENP	4/19/2001	7	0.007
S332D	ENP	5/3/2001	7	0.009
S332DAS	ENP	5/10/2001	7	0.011
S332DAS	ENP	5/17/2001	7	0.009
S332DAS	ENP	5/24/2001	7	0.019
S332DAS	ENP	5/31/2001	7	0.010
S332DAS	ENP	6/7/2001	7	0.011
S332DAS	ENP	6/14/2001	7	0.007
S332DAS	ENP	6/21/2001	7	0.008
S332DAS	ENP	6/28/2001	7	0.007
S332DAS	ENP	7/5/2001	7	0.008
S332DAS	ENP	7/19/2001	7	0.008