

# Shark River Slough Water Year 2018

Alternative **Method 1**: S12s + [(S333 + S355A + S355B) - S334]

Total Phosphorus (TP) Tracking Final Data

(October 1, 2017 - September 30, 2018)

Sampling Event Date	TP Concentration (mg/L)							Daily Mean Flow (cfs)								S334 Adjusted Flow (cfs)				Event FWMC			
	S12A	S12B	S12C	S12D	S333	S355A	S355B	S12A	S12B	S12C	S12D	S333	S355A	S355B	S333 + S355A&B	S334	S333	S355A	S355B	Event TP Loads	Event Total Flow	(ppb)	
10/2/2017	0.006	0.006	0.005	0.008	0.009	0.007	0.006	1,070	917	1,490	1,830	409	0	0	409	237	171	0	0	35.6	5478.4	6.5	
10/9/2017	0.008	0.006	0.006	0.007	0.007			1,330	1,150	1,750	2,210	99	0	0	99	106	-	0	0				
10/16/2017	0.008	0.005	0.004	0.006	0.007	0.006	0.012	1,340	1,140	1,730	2,210	377	0	0	377	377	1	0	0	36.6	6420.8	5.7	
10/23/2017	0.008	0.007	0.005	0.008	0.007			1,200	1,040	1,630	2,130	440	0	0	440	436	4	0	0				
10/30/2017	0.007	0.006	0.005	0.007	0.007			1,260	1,140	1,760	2,380	117	0	0	117	112	5	0	0	41.2	6544.9	6.3	
11/6/2017	0.007	0.006	0.006	0.008	0.007			1,100	984	1,540	2,080	631	0	0	631	628	3	0	0				
11/13/2017	0.005	0.004	0.004	0.006	0.007	0.006	0.011	952	828	1,320	1,790	858	0	0	858	867	-	0	0	24.09	4,890	4.9	
11/20/2017	0.005	0.004	0.004	0.006	0.005			784	690	1,170	1,510	860	0	0	860	868	-	0	0				
11/27/2017	0.005	0.004	0.003	0.006	0.006			644	587	1,050	1,220	1,416	0	0	1,416	926	491	0	0	18.98	3,992	4.8	
12/4/2017	0.005	0.006	0.004	0.006	0.005			492	465	862	980	1,716	0	0	1,716	1,016	700	0	0				
12/11/2017	0.004	0.005	0.004	0.006	0.006	0.004	0.006	379	377	752	900	1,495	0	0	1,495	632	862	0	0	16.98	3,270	5.2	
12/18/2017	0.004	0.005	0.003	0.006	0.007			300	306	649	750	1,497	0	0	1,497	733	763	0	0				
12/26/2017	0.005	0.004	0.005	0.006	0.007			237	248	561	628	1,490	0	0	1,490	740	750	0	0	14.00	2,424	5.8	
1/2/2018	0.010		0.005	0.006	0.007			0	0	550	607	1,489	0	0	1,489	769	721	0	0				
1/8/2018	0.005		0.004	0.005	0.004	0.005	0.004	0	0	610	725	262	0	0	262	258	4	0	0	6.08	1,339	4.5	
1/16/2018	0.010		0.006	0.007	0.006			0	0	563	766	258	0	0	258	255	3	0	0				
1/22/2018	0.008	0.010	0.005	0.005	0.006	0.003	0.003	0	0	525	708	232	0	0	232	137	96	0	0	6.74	1,329	5.1	
1/29/2018	0.011		0.006	0.006	0.006			0	0	260	702	122	0	0	122	0	122	0	0				
2/5/2018	0.012			0.007	0.008			0	0	0	509	415	0	0	415	0	415	0	0	6.88	924	7.4	
2/12/2018	0.013			0.009	0.010			0	0	0	363	506	0	0	506	90	416	0	0				
2/19/2018	0.015			0.008	0.009	0.010	0.013	0	0	0	341	586	0	0	586	137	449	0	0	6.77	790	8.6	
2/26/2018	0.017				0.011			0	0	0	0	454	0	0	454	130	324	0	0				
3/5/2018	0.021			0.010	0.014	0.012	0.012	0	0	0	0	291	0	0	291	123	168	0	0	2.35	168	14.0	
3/12/2018	0.019			0.009	0.009			0	0	0	0	187	0	0	187	154	33	0	0				
3/19/2018	0.023			0.011	0.012			0	0	0	0	156	0	0	156	156	0	0	0	0.01	0	12.0	
3/26/2018	0.024			0.011	0.012			0	0	0	0	163	0	0	163	129	33	0	0				
4/2/2018	0.032			0.014	0.014			0	0	0	0	159	0	0	159	134	25	0	0	0.35	25	14.0	
4/9/2018	0.038			0.015	0.024			0	0	0	0	154	0	0	154	147	7	0	0				
4/16/2018	0.039	0.026	0.018	0.015	0.018	0.067	0.074	0	0	0	0	274	0	0	274	258	17	0	0	0.30	17	18.0	
4/23/2018	0.047			0.020	0.030			0	0	0	0	296	0	0	296	279	17	0	0				
4/30/2018	0.044			0.024	0.032			0	0	0	0	346	0	0	346	324	22	0	0	0.71	22	32.0	
5/7/2018	0.046			0.024	0.032			0	0	0	0	354	0	0	354	331	23	0	0				
5/14/2018	0.042			0.030	0.023	0.060	0.123	0	0	0	0	347	0	0	347	313	33	0	0	0.77	33	23.0	
5/21/2018	0.024			0.020	0.018			0	0	0	0	0	0	0	0	0	0	0	0				
5/29/2018	0.030		0.012	0.014	0.053			0	0	434	611	715	0	0	715	0	715	0	0	51.66	1,760	29.4	
6/4/2018	0.023		0.009	0.012	0.046			0	0	496	677	662	0	0	662	0	662	0	0				
6/11/2018	0.020		0.010	0.012	0.016	0.012	0.012	0	0	585	774	620	0	0	620	0	620	0	0	25.05	1,979	12.7	
6/18/2018	0.015		0.007	0.010	0.009			0	0	674	856	565	0	0	565	0	565	0	0				
6/25/2018	0.018		0.008	0.012	0.009			0	0	760	941	441	0	0	441	0	441	0	0	21.34	2,142	10.0	
7/2/2018	0.014		0.011	0.008	0.008			0	0	792	927	1,105	0	0	1,105	0	1,105	0	0				
7/9/2018	0.009	0.009	0.007	0.009	0.007	0.010	0.010	0	0	677	771	996	0	0	996	0	996	0	0	18.65	2,444	7.6	
7/16/2018	0.007	0.005	0.009	0.009	0.008			244	244	565	671	945	0	0	945	0	945	0	0				
7/23/2018	0.006	0.007	0.008	0.009	0.010			196	200	481	622	987	0	0	987	0	987	0	0	21.90	2,486	8.8	
7/30/2018	0.006	0.005	0.007	0.008	0.011			197	196	467	660	939	0	0	939	0	939	0	0				
8/6/2018	0.006	0.006	0.007	0.008	0.008	0.007	0.006	155	161	410	546	1,180	0	154	1,334	0	1,180	0	154	19.50	2,606	7.5	
8/13/2018	0.006	0.006	0.007	0.008	0.007			180	185	464	657	775	0	124	900	0	775	0	124				
8/20/2018	0.007	0.007	0.008	NOB <sup>1</sup>	0.008		0.006	167	176	442	663	701	0	123	824	0	701	0	123	12.28	1,609	7.6	
8/27/2018	G <sup>2</sup>	G <sup>2</sup>	G <sup>2</sup>	G <sup>2</sup>	G <sup>2</sup>			161	172	427	692	797	0	135	931	0	797	0	135				
9/4/2018	0.006	0.004	0.006	0.007	0.006	0.005	0.005	263	264	588	1,010	220	0	140	359	0	220	0	140	15.25	2,484	6.1	
9/10/2018	0.004	0.005	0.006	0.008	0.007			249	248	565	927	442	0	174	615	0	442	0	174				
9/17/2018	0.006	0.004	0.006	0.008	0.007			259	256	576	940	0	0	0	0	0	0	0	0	13.55	2,031	6.7	
9/24/2018	0.005	0.004	0.005	0.007	0.006			225	215	486	673	1,115	0	0	1,115	0	1,115	0	0				
Period	Total Flow <sup>3</sup>							WY2018 Long-term Limit				WY2018 FWMC <sup>4</sup>				Percent of Sampling Events Greater than 10 ppb							
	(kac-ft)							(ppb)				(ppb)				Guideline		Observed					
October 1, 2017 - September 30, 2018							1,731.8				7.6				7.3				40.1%		30.8%		

Blue shaded and **bolded** dates are the bi-weekly compliance sampling events and corresponding flow-weighted mean concentrations (FWMC).

Light green shaded cell indicates there was flow at the site on the sampling day.

"-" in flow data indicates the value was negative and zeroed out.

**Notes:**

1. NOB: No Bottle; sampling area inaccessible due to large floating mats of vegetation. No clear, representative area to collect sample. No sample collected.
2. G: Analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value.
3. Total of all flow at S12s + S333 + S355A + S355B.
4. The bi-weekly sampling events and flow data are used to calculate FWMC.

# Shark River Slough Water Year 2018

Alternative Method 2: S12s + [(S333 + S355A + S355B + S356) - S334]

Total Phosphorus (TP) Tracking Final Data

(October 1, 2017 - September 30, 2018)

Sampling Event Date	TP Concentration (mg/L)								Daily Mean Flow (cfs)								S334 Adjusted Flow (cfs)					Event FWMC			
	S12A	S12B	S12C	S12D	S333	S355A	S355B	S356	S12A	S12B	S12C	S12D	S333	S355A	S355B	S356	S333+S355A+S355B+S356	S334	S333	S355A	S355B	S356	Event TP Loads	Event Total Flow	(ppb)
10/2/2017	0.006	0.006	0.005	0.008	0.009	0.007	0.006	0.007	1,070	917	1,490	1,830	409	0	0	0	409	237	171	0	0	0	35.55	5,478	6.5
10/9/2017	0.008	0.006	0.006	0.007	0.007			0.014	1,330	1,150	1,750	2,210	99	0	0	0	99	106	-	0	0	0			
10/16/2017	0.008	0.005	0.004	0.006	0.007	0.006	0.012	0.009	1,340	1,140	1,730	2,210	377	0	0	0	377	377	1	0	0	0	36.61	6,421	5.7
10/23/2017	0.008	0.007	0.005	0.008	0.007			0.010	1,200	1,040	1,630	2,130	440	0	0	0	440	436	4	0	0	0			
10/30/2017	0.007	0.006	0.005	0.007	0.007			0.010	1,260	1,140	1,760	2,380	117	0	0	0	117	112	5	0	0	0	41.15	6,545	6.3
11/6/2017	0.007	0.006	0.006	0.008	0.007			0.009	1,100	984	1,540	2,080	631	0	0	0	631	628	3	0	0	0			
11/13/2017	0.005	0.004	0.004	0.006	0.007	0.006	0.011	0.012	952	828	1,320	1,790	858	0	0	0	858	867	-	0	0	0	#VALUE!	4,890	4.9
11/20/2017	0.005	0.004	0.004	0.006	0.005			0.012	784	690	1,170	1,510	860	0	0	0	860	868	-	0	0	0			
11/27/2017	0.005	0.004	0.003	0.006	0.006			0.010	644	587	1,050	1,220	1,416	0	0	0	1,416	926	491	0	0	0	18.98	3,992	4.8
12/4/2017	0.005	0.006	0.004	0.006	0.005			0.014	492	465	862	980	1,716	0	0	0	1,716	1,016	700	0	0	0			
12/11/2017	0.004	0.005	0.004	0.006	0.006	0.004	0.006	0.008	379	377	752	900	1,495	0	0	0	1,495	632	862	0	0	0	16.98	3,270	5.2
12/18/2017	0.004	0.005	0.003	0.006	0.007			0.007	300	306	649	750	1,497	0	0	0	1,497	733	763	0	0	0			
12/26/2017	0.005	0.004	0.005	0.006	0.007			0.007	237	248	561	628	1,490	0	0	0	1,490	740	750	0	0	0	14.00	2,424	5.8
1/2/2018	0.010		0.005	0.006	0.007			0.008	0	0	550	607	1,489	0	0	0	1,489	769	721	0	0	0			
1/8/2018	0.005		0.004	0.005	0.004	0.005	0.004	0.006	0	0	610	725	262	0	0	0	262	258	4	0	0	0	6.08	1,339	4.5
1/16/2018	0.010		0.006	0.007	0.006			0.007	0	0	563	766	258	0	0	0	258	255	3	0	0	0			
1/22/2018	0.008	0.010	0.005	0.005	0.006	0.003	0.003	0.005	0	0	525	708	232	0	0	6	238	137	99	0	0	2	6.77	1,334	5.1
1/29/2018	0.011		0.006	0.006	0.006			0.006	0	0	260	702	122	0	0	46	168	0	122	0	0	46			
2/5/2018	0.012			0.007	0.008			0.008	0	0	0	509	415	0	0	0	415	0	415	0	0	0	6.88	924	7.4
2/12/2018	0.013			0.009	0.010			0.009	0	0	0	363	506	0	0	0	506	90	416	0	0	0			
2/19/2018	0.015			0.008	0.009	0.010	0.013	0.010	0	0	0	341	586	0	0	0	586	137	449	0	0	0	6.77	790	8.6
2/26/2018	0.017				0.011			0.010	0	0	0	0	454	0	0	0	454	130	324	0	0	0			
3/5/2018	0.021			0.010	0.014	0.012	0.012	0.012	0	0	0	0	291	0	0	0	291	123	168	0	0	0	2.35	168	14.0
3/12/2018	0.019			0.009	0.009			0.011	0	0	0	0	187	0	0	0	187	154	33	0	0	0			
3/19/2018	0.023			0.011	0.012			0.014	0	0	0	0	156	0	0	0	156	156	0	0	0	0	0.01	0	12.0
3/26/2018	0.024			0.011	0.012			0.012	0	0	0	0	163	0	0	0	163	129	33	0	0	0			
4/2/2018	0.032			0.014	0.014			0.016	0	0	0	0	159	0	0	0	159	134	25	0	0	0	0.35	25	14.0
4/9/2018	0.038			0.015	0.024			0.018	0	0	0	0	154	0	0	0	154	147	7	0	0	0			
4/16/2018	0.039	0.026	0.018	0.015	0.018	0.067	0.074	0.019	0	0	0	0	274	0	0	0	274	258	17	0	0	0	0.30	17	18.0
4/23/2018	0.047			0.020	0.030			0.019	0	0	0	0	296	0	0	0	296	279	17	0	0	0			
4/30/2018	0.044			0.024	0.032			0.022	0	0	0	0	346	0	0	7	354	324	29	0	0	1	0.93	29	31.8
5/7/2018	0.046			0.024	0.032			0.022	0	0	0	0	354	0	0	0	354	331	23	0	0	0			
5/14/2018	0.042			0.030	0.023	0.060	0.123	0.027	0	0	0	0	347	0	0	0	347	313	33	0	0	0	0.77	33	23.0
5/21/2018	0.024			0.020	0.018			0.009	0	0	0	0	0	0	72	72	0	0	0	0	72				
5/29/2018	0.030		0.012	0.014	0.053			0.009	0	0	434	611	715	0	0	0	715	0	715	0	0	0	51.66	1,760	29.4
6/4/2018	0.023		0.009	0.012	0.046			0.008	0	0	496	677	662	0	0	0	662	0	662	0	0	0			
6/11/2018	0.020		0.010	0.012	0.016	0.012	0.012	0.010	0	0	585	774	620	0	0	0	620	0	620	0	0	0	25.05	1,979	12.7
6/18/2018	0.015		0.007	0.010	0.008			0.011	0	0	674	856	565	0	0	0	565	0	565	0	0	0			
6/25/2018	0.018		0.008	0.012	0.009			0.011	0	0	760	941	441	0	0	0	441	0	441	0	0	0	21.34	2,142	10.0
7/2/2018	0.014		0.011	0.008	0.008			0.011	0	0	792	927	1,105	0	0	0	1,105	0	1,105	0	0	0			
7/9/2018	0.009	0.009	0.007	0.009	0.007	0.010	0.010	0.009	0	0	677	771	996	0	0	0	996	0	996	0	0	0	18.65	2,444	7.6
7/16/2018	0.007	0.005	0.009	0.009	0.008			0.010	244	244	565	671	945	0	0	0	945	0	945	0	0	0			
7/23/2018	0.006	0.007	0.008	0.009	0.010			0.008	196	200	481	622	987	0	0	0	987	0	987	0	0	0	21.90	2,486	8.8
7/30/2018	0.006	0.005	0.007	0.008	0.011			0.008	197	196	467	660	939	0	0	0	939	0	939	0	0	0			
8/6/2018	0.006	0.006	0.007	0.008	0.008	0.007	0.006	0.008	155	161	410	546	1,180	0	154	0	1,334	0	1,180	0	154	0	19.50	2,606	7.5
8/13/2018	0.006	0.006	0.007	0.008	0.007			0.008	180	185	464	657	775	0	124	0	900	0	775	0	124	0			
8/20/2018	0.007	0.007	0.008	NOB <sup>1</sup>	0.008		0.006	0.007	167	176	442	663	701	0	123	398	1,222	0	701	0	123	398	9.46	1,306	7.2
8/27/2018	G <sup>2</sup>	G <sup>2</sup>	G <sup>2</sup>	G <sup>2</sup>	G <sup>2</sup>			G <sup>2</sup>	161	172	427	692	797	0	135	267	1,198	0	797	0	135	267			
9/4/2018	0.006	0.004	0.006	0.007	0.006	0.005	0.005	0.004	263	264	588	1,010	220	0	140	399	759	0	220	0	140	399	15.53	2,664	5.8
9/10/2018	0.004	0.005	0.006	0.008	0.007			0.005	249	248	565	927	442	0	174	265	880	0	442	0	174	265			
9/17/2018	0.006	0.004	0.006	0.008	0.007			0.004	259	256	576	940	0	0	0	265	265	0	0	0	0	265	14.61	2,296	6.4
9/24/2018	0.005	0.004	0.005	0.007	0.006			0.006	225	215	486	673	1,115	0	0	255	1,370	0	1,115	0	0	255			

Blue shaded and **bolded** dates are the bi-weekly compliance sampling events and corresponding flow-weighted mean concentrations (FWMC).  
 Light green shaded cell indicates there was flow at the site on the sampling day.  
 "-" in flow data indicates the value was negative and zeroed out.

- Notes:
- NOB: No Bottle; sampling area inaccessible due to large floating mats of vegetation. No clear, representative area to collect sample. No sample collected.
  - G: Analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value.
  - Total of all flow at S12s + S333 + S355A + S355B.
  - The bi-weekly sampling events and flow data are used to calculate FWMC.