

Shark River Slough Fourth Quarter 2019

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

Total Phosphorus (TP) Tracking Data Report (Provisional flow data from October 1, 2019)

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	Loads	Total Flow	(ppb)
10/1/2018	0.005	NOB	0.005	0.007	0.007	0.007	0.010	77	83	458	607	977	0	0	977	0	977	0	0	13.77	2,120	6.5
10/8/2018	0.011		0.006	0.008	0.008			0	0	524	675	692	0	113	804	0	692	0	113			
10/15/2018	0.010		0.007	0.008	0.007		0.006	0	0	502	634	816	0	169	984	0	816	0	169	15.31	2,120	7.2
10/22/2018	0.011		0.006	0.008	0.009			0	0	418	504	1077	0	0	1077	0	1077	0	0			
10/30/2018	0.011				0.009			0	0	0	0	491	0	0	491	0	491	0	0	4.42	491	9.0
11/5/2018	0.010				0.010			0	0	0	0	118	0	0	118	0	118	0	0			
11/13/2018	0.042				0.013	0.008	0.009	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0	
11/19/2018	0.014				0.012			0	0	0	0	53	0	0	53	46	7	0	0			
11/26/2018	0.016			0.008	0.011			0	0	0	0	110	0	0	110	109	1	0	0	0.01	1	11.0
12/3/2018	0.010	0.013	0.011		0.007			0	0	0	0	239	0	0	239	230	9	0	0			
12/11/2018	0.014				0.009	0.008	0.006	0	0	0	0	248	0	0	248	234	14	0	0	0.12	14	9.0
12/17/2018	0.014			0.007	0.009			0	0	0	0	244	0	0	244	230	14	0	0			
12/27/2018	0.019				0.008			0	0	0	0	241	0	0	241	229	12	0	0	0.09	12	8.0
1/2/2019	0.019				0.008			0	0	0	0	241	0	0	241	230	11	0	0			
1/7/2019	0.020				0.010	0.013	0.012	0	0	0	0	242	0	0	242	224	18	0	0	0.18	18	10.0
1/14/2019	0.015				0.010			0	0	0	0	240	0	0	240	225	15	0	0			
1/22/2019	0.017				0.010			0	0	0	0	235	0	0	235	220	14	0	0	0.14	14	10.0
1/28/2019	0.019				0.009			0	0	0	0	169	0	0	169	151	19	0	0			
2/4/2019	0.016				0.010			0	0	0	0	253	0	0	253	224	30	0	0	0.30	30	10.0
2/12/2019	0.022				0.010			0	0	0	0	364	0	0	364	225	138	0	0			
2/18/2019	0.023				0.011	0.011	0.013	0	0	0	0	489	0	0	489	229	261	0	0	2.87	261	11.0
2/25/2019	0.021				0.016			0	0	0	0	1118	0	0	1118	257	861	0	0			
3/5/2019	0.018				0.017			0	0	0	0	1223	0	0	1223	236	987	0	0	16.78	987	17.0
3/11/2019	0.015				0.012			0	0	0	0	893	0	0	893	249	644	0	0			
3/18/2019	0.014		NOB		0.012	0.017	0.019	0	0	0	226	36	0	0	36	111	-	0	0	0.00	0	
3/25/2019	0.016		NOB		0.012	0.013	0.014	0	0	0	227	247	0	0	247	246	1	0	0			
4/1/2019	0.030				0.015			0	0	0	0	658	0	0	658	261	397	0	0	5.96	397	15.0
4/8/2019	0.018				0.014			0	0	0	0	511	0	0	511	241	270	0	0			
4/15/2019	0.018				0.012			0	0	0	0	594	0	0	594	262	331	0	0	3.98	331	12.0
4/22/2019	0.024				0.012			0	0	0	0	531	0	0	531	254	277	0	0			
4/29/2019	0.026				0.012	0.021	0.029	0	0	0	0	549	0	0	549	309	240	0	0	2.88	240	12.0
5/6/2019	0.019				0.013			0	0	0	0	285	0	0	285	251	34	0	0			
5/13/2019	0.018				0.012			0	0	0	0	402	0	0	402	138	264	0	0	3.17	264	12.0
5/20/2019	0.021				0.031			0	0	0	0	1161	0	0	1161	255	906	0	0			
5/28/2019	0.024				0.019	0.020	0.028	0	0	0	0	640	0	0	640	356	285	0	0	5.41	285	19.0
6/3/2019	0.031				0.013			0	0	0	0	492	0	0	492	332	161	0	0			
6/10/2019	0.025				0.016			0	0	0	0	66	0	0	66	58	8	0	0	0.13	8	16.0
6/17/2019	0.020				0.009			0	0	0	0	672	0	0	672	0	672	0	0			
6/24/2019	0.016				0.019	0.013	0.022	0	0	0	0	1227	0	0	1227	0	1227	0	0	23.31	1,227	19.0
7/1/2019	0.019		0.009	0.011	0.016			0	0	25	280	1056	0	0	1056	0	1056	0	0			
7/8/2019	0.026		0.011	0.012	0.010	0.014	0.016	0	0	27	255	969	0	0	969	0	969	0	0	13.05	1,251	10.4
7/15/2019	0.021		0.009	0.012	0.014			11	13	42	272	913	0	0	913	0	913	0	0			
7/22/2019	0.012	0.009	0.008	0.011	0.013			19	15	38	258	904	0	0	904	0	904	0	0	15.25	1,234	12.4
7/29/2019	0.012	0.012	0.011	0.012	0.012			34	43	77	330	823	0	0	823	0	823	0	0			
8/5/2019	0.010	0.009	0.008	0.012	0.012	0.017	0.010	60	86	149	421	802	0	0	802	0	802	0	0	17.24	1,518	11.4
8/12/2019	0.008	0.007	0.008	0.011	0.010			94	130	254	543	696	0	0	696	0	696	0	0			
8/19/2019	0.008	0.007	0.008	0.010	0.010			114	140	292	551	795	0	0	795	0	795	0	0	17.69	1,892	9.3
8/26/2019	0.007	0.006	0.006	0.010	0.009			98	123	268	493	1136	0	0	1136	0	1136	0	0			
9/4/2019	0.007	0.006	0.007	0.008	0.010	0.009	0.010	118	142	307	584	1205	0	0	1205	0	1205	0	0	20.55	2,356	8.7
9/9/2019	0.007	0.007	0.008	0.010	0.011			112	134	296	574	1075	0	0	1075	0	1075	0	0			
9/16/2019	0.007	0.006	0.006	0.008	0.007	0.006	0.008	138	151	323	604	1083	0	0	1083	0	1083	0	0	16.22	2,299	7.1
9/23/2019	0.006	0.006	0.007	0.008	0.007			144	152	320	566	1045	0	0	1045	0	1045	0	0			
9/30/2019	0.006	0.006	0.007	0.008	0.007			121	129	279	466	1010	0	0	1010	0	1010	0	0	14.25	2,005	7.1
10/7/2019	0.012		0.007	0.008	0.008			0	0	185	561	955	0	0	955	0	955	0	0			
10/14/2019	0.008			0.007	0.008	0.006	0.007	0	0	0	439	0	0	0	0	0	0	0	3.07	439	7.0	
10/21/2019	0.010		0.007	0.008	0.008			0	0	342	550	1179	0	0	1179	0	1179	0	0			
10/28/2019	0.011		0.007	0.008	0.008	0.009	0.011	0	0	351	491	1019	0	0	1019	0	1019	0	0	14.53	1,861	7.8
11/4/2019	0.011				0.005	0.008		0	0	0	0	903	0	0	903	0	903	0	0			
11/12/2019	0.008			0.008	0.009	0.006	0.009	0	0	0	0	20	0	0	20	0	20	0	0	0.18	20	9.0
11/18/2019	0.008				0.010			0	0	0	0	0	0	0	0	0	0	0	0			
11/25/2019	0.011			0.013	0.009			0	0	0	0	0	0	0	0	0	0	0	0	0.00	0	
12/2/2019	0.010			0.007	0.008			0	0	0	0	0	0	0	0	0	0	0	0			
12/9/2019	0.009				0.006	0.006	0.005	0	0	0	0	106	0	0	106	110	-	0	0	0.00	0	
12/16/2019	0.013				0.007			0	0	0	0	108	0	0	108	101	7	0	0			
12/26/2019	0.011				0.008			0	0	0	0	0	0	0	0	0	0	0	0	0.00	0	
12/30/2019	0.008				0.008			0	0	0	0	0	0	0	0	0	0	0	0			

Period	Total Flow ²	12-Month Moving FWMC ³	12-Month Moving Long-term Limit	Percent of Sampling Events Greater than 10 ppb	
	(kac-ft)	(ppb)	(ppb)	Guideline (%)	Observed (%)
Nov 2018 - Oct 2019	629.8	10.4	9.8	51.2	54.2
Dec 2018 - Nov 2019	638.1	10.4	9.8	50.9	50.0
Jan 2019 - Dec 2019	627.0	10.4	9.8	51.3	54.5

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.
 S355B flows represent gates and temporary pumps.
 - in flow data indicates the value was negative and zeroed out.

Notes:
 1. NOB: No Bottle; No flow was observed at the time of the sampling visit. No sample collected.
 2. Total of all flow at S12s + S333 + S355A + S355B.
 3. The bi-weekly sampling events and flow data are used to calculate FWMC.

Shark River Slough Fourth Quarter 2019

Alternative **Method 2**: S12s + [(S333 + S355A + S355B + S356) - S334]
 Total Phosphorus (TP) Tracking Data Report (Provisional flow data from October 1, 2019)

Sampling Event Date	TP Concentration (mg/L)								Daily Mean Flow (cfs)								S334 Adjusted Flow (cfs)				FWMC: S12s + [(S333+S355A&B)-S334]					
	S12A	S12B	S12C	S12D	S333	S355A	S355B	S356	S12A	S12B	S12C	S12D	S333	S355A	S355B	S356	S333 + S355A&B + S356	S334	S333	S355A	S355B	S356	Loads	Total Flow	FWMC	
10/1/2018	0.005	NOB ¹	0.005	0.007	0.007	0.007	0.010	0.004	77	83	458	607	977	0	0	396	1373	0	977	0	0	396	15.73	2,515	6.3	
10/8/2018	0.011		0.006	0.008	0.008			0.006	0	0	524	675	892	0	113	400	1204	0	692	0	113	400				
10/15/2018	0.010		0.007	0.008	0.007			0.006	0	0	502	634	816	0	169	335	1319	0	816	0	169	335	17.32	2,455	7.1	
10/22/2018	0.011		0.006	0.008	0.009			0.005	0	0	418	504	1077	0	0	131	1208	0	1077	0	0	131				
10/30/2018	0.011				0.009			0.009	0	0	0	0	491	0	0	0	491	0	491	0	0	0	4.42	491	9.0	
11/5/2018	0.010				0.010			0.009	0	0	0	0	118	0	0	0	118	0	118	0	0	0				
11/13/2018	0.042				0.013	0.008	0.009	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0		
11/19/2018	0.014				0.012			0.013	0	0	0	0	53	0	0	0	53	46	7	0	0	0				
11/26/2018	0.016			0.008	0.011			0.013	0	0	0	0	110	0	0	0	110	109	1	0	0	0	0.01	1	11.0	
12/3/2018	0.010	0.013	0.011	0.007	0.007			0.012	0	0	0	0	239	0	0	0	239	230	9	0	0	0				
12/11/2018	0.014				0.009	0.008	0.006	0.011	0	0	0	0	248	0	0	0	248	234	14	0	0	0	0.12	14	9.0	
12/17/2018	0.014			0.007	0.009			0.012	0	0	0	0	244	0	0	0	244	230	14	0	0	0				
12/27/2018	0.019				0.008			0.011	0	0	0	0	241	0	0	0	241	229	12	0	0	0	0.09	12	8.0	
1/2/2019	0.019				0.008			0.013	0	0	0	0	241	0	0	0	241	230	11	0	0	0				
1/7/2019	0.020				0.010	0.013	0.012	0.012	0	0	0	0	242	0	0	0	242	224	18	0	0	0	0.18	18	10.0	
1/14/2019	0.015				0.010			0.016	0	0	0	0	240	0	0	0	240	225	15	0	0	0				
1/22/2019	0.017				0.010			0.015	0	0	0	0	235	0	0	0	235	220	14	0	0	0	0.14	14	10.0	
1/28/2019	0.019				0.009			0.015	0	0	0	0	169	0	0	0	169	151	19	0	0	0				
2/4/2019	0.016				0.010			0.014	0	0	0	0	253	0	0	0	254	224	30	0	0	0	0.30	30	10.0	
2/12/2019	0.022				0.010			0.018	0	0	0	0	364	0	0	0	364	225	138	0	0	0				
2/18/2019	0.023				0.011	0.013		0.016	0	0	0	0	489	0	0	0	489	229	261	0	0	0	2.87	261	11.0	
2/25/2019	0.021				0.016			0.016	0	0	0	0	1118	0	0	10	1128	257	863	0	0	8				
3/5/2019	0.018				0.017			0.014	0	0	0	0	1223	0	0	0	1223	236	987	0	0	0	16.78	987	17.0	
3/11/2019	0.015				0.012			0.014	0	0	0	0	893	0	0	0	893	249	644	0	0	0				
3/18/2019	0.014		NOB ¹		0.012	0.017	0.019	0.019	0	0	226	0	36	0	0	0	36	111	-	0	0	0	0.00	0		
3/25/2019	0.016		NOB ¹		0.012	0.013	0.014	0.019	0	0	227	0	247	0	0	0	247	246	1	0	0	0				
4/1/2019	0.030				0.015			0.018	0	0	0	0	658	0	0	0	658	261	397	0	0	0	5.96	397	15.0	
4/8/2019	0.018				0.014			0.014	0	0	0	0	511	0	0	0	511	241	270	0	0	0				
4/15/2019	0.018				0.012			0.016	0	0	0	0	594	0	0	0	594	262	331	0	0	0	3.98	331	12.0	
4/22/2019	0.024				0.012			0.016	0	0	0	0	531	0	0	0	531	254	277	0	0	0				
4/29/2019	0.026				0.012	0.021	0.029	0.016	0	0	0	0	549	0	0	0	549	309	240	0	0	0	2.88	240	12.0	
5/6/2019	0.019				0.013			0.024	0	0	0	0	285	0	0	0	285	251	34	0	0	0				
5/13/2019	0.018				0.012			0.014	0	0	0	0	402	0	0	0	402	138	264	0	0	0	3.17	264	12.0	
5/20/2019	0.021				0.031			0.014	0	0	0	0	1161	0	0	0	1161	255	906	0	0	0				
5/28/2019	0.024				0.019	0.020	0.028	0.017	0	0	0	0	640	0	0	0	640	356	285	0	0	0	5.41	285	19.0	
6/3/2019	0.031				0.013			0.019	0	0	0	0	492	0	0	0	492	332	161	0	0	0				
6/10/2019	0.025				0.016			0.017	0	0	0	0	66	0	0	0	66	58	8	0	0	0	0.13	8	16.0	
6/17/2019	0.020				0.009			0.008	0	0	0	0	672	0	0	223	895	0	672	0	0	223				
6/24/2019	0.016				0.019	0.013	0.022	0.007	0	0	0	0	1227	0	0	264	1491	0	1227	0	0	264	25.16	1,491	16.9	
7/1/2019	0.019		0.009	0.011	0.016			0.006	0	0	25	280	1056	0	0	346	1402	0	1056	0	0	346				
7/8/2019	0.026		0.011	0.012	0.010	0.014	0.016	0.005	0	0	27	255	969	0	0	420	1389	0	969	0	0	420	15.15	1,671	9.1	
7/15/2019	0.021		0.009	0.012	0.014			0.006	11	13	42	272	913	0	0	398	1312	0	913	0	0	398				
7/22/2019	0.012	0.009	0.008	0.011	0.013			0.006	19	15	38	258	904	0	0	357	1260	0	904	0	0	357	17.39	1,590	10.9	
7/29/2019	0.012	0.012	0.011	0.012	0.012			0.007	34	43	77	330	823	0	0	398	1222	0	823	0	0	398				
8/5/2019	0.010	0.009	0.008	0.012	0.012	0.017	0.010	0.006	60	86	149	421	802	0	0	398	1200	0	802	0	0	398	19.63	1,916	10.2	
8/12/2019	0.008	0.007	0.008	0.011	0.010			0.006	94	130	254	543	896	0	0	398	1094	0	896	0	0	398				
8/19/2019	0.008	0.007	0.008	0.010	0.010			0.004	114	140	292	551	795	0	0	398	1193	0	795	0	0	398	19.28	2,290	8.4	
8/26/2019	0.007	0.006	0.006	0.010	0.009			0.006	98	123	268	493	1136	0	0	399	1536	0	1136	0	0	399				
9/4/2019	0.007	0.006	0.007	0.008	0.010	0.009	0.010	0.006	118	142	307	584	1205	0	0	404	1609	0	1205	0	0	404	22.97	2,760	8.3	
9/9/2019	0.007	0.007	0.008	0.010	0.011			0.006	112	134	296	574	1075	0	0	399	1474	0	1075	0	0	399				
9/16/2019	0.007	0.006	0.006	0.008	0.007	0.006	0.008	0.006	138	151	323	604	1083	0	0	399	1482	0	1083	0	0	399	18.62	2,698	6.9	
9/23/2019	0.006	0.006	0.007	0.008	0.007			0.006	144	152	320	566	1045	0	0	400	1446	0	1045	0	0	400				
9/30/2019	0.006	0.006	0.007	0.008	0.007			0.007	121	129	279	466	1010	0	0	395	1405	0	1010	0	0	395	17.01	2,400	7.1	
10/7/2019	0.012		0.007	0.008	0.008			0.006	0	0	0	185	561	955	0	0	400	1355	0	955	0	0	400			
10/14/2019	0.008			0.007	0.008	0.006	0.007	0.005	0	0	0	439	0	0	0	400	400	0	0	0	0	400	5.07	839	6.0	
10/21/2019	0.010		0.007	0.007	0.008			0.008	0	0	0	342	550	1179	0	0	400	1579	0	1179	0	0	400			
10/28/2019	0.011		0.007	0.008	0.008	0.009	0.011	0.006	0	0	351	491	1019	0	0	395	1414	0	1019	0	0	395	16.91	2,256	7.5	
11/4/2019	0.011			0.005	0.008			0.005	0	0	0	0	903	0	0	396	1299	0	903	0	0	396				
11/12/2019	0.008			0.008	0.009	0.006	0.009	0.005	0	0	0	0	20	0	0	264	284	0	20	0	0	264	1.50	284	5.3	
11/18/2019	0.008			0.010				0.005	0	0	0	0	0	0	0	259	259	0	0	0	0	259				
11/25/2019	0.011			0.013	0.009			0.004	0	0	0	0	0	0	133</											