

Technical Memorandum BCWA



Date: February 8, 2018
To: Bear Creek Watershed Association
From: Russell N. Clayshulte, Manager
Re: BCWA TM 2017.08 EGL Summary

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Figure 1 Concrete Canoe Races on EGL

Table 1 EGL Data Summary

Evergreen Lake, Segment 1d								
Site	Parameter (ug/l)	5/17/2017	6/19/2017	7/12/2017	8/9/2017	9/13/2017	10/12/2017	Average
EGL 4a	Total Nitrogen	287	287	270	253	161	250	251
	Phosphorus, total	13	11	11	17	11	13	13
	Residue, Non-Filterable (TSS)	4.8	4.0					4
	Chlorophyll a Average	3.2	1.1	4.0	3.5	1.7	4.4	3.0
EGL 4e	Total Nitrogen	290	257	424.0	381	131	258	290.2
	Phosphorus, total	18.0	14	16.0	163	14	17	40.3
								Total
EGL 4a	Total Nitrogen, Pounds/month	29.5	49.7	32.6	28.1	11.6	21.8	173
	Total Phosphorus, Pounds/month	1.3	1.9	1.3	1.9	0.8	1.1	8
	TSS, pounds/month	492.8	692.7	0.0	0.0	0.0	0.0	1185

Table 2 EGL Field Data Summary

Parameter Summary		5/17/2017	6/19/2017	7/12/2017	8/9/2017	9/13/2017	10/12/2017
Water Column	Dissolved Oxygen 1/2-2m	10.55	6.56	7.14	6.23	8.54	8.54
	Temperature (C) 1/2-2m	13.02	14.63	16.55	14.48	15.28	15.28
	pH water column	7.53	7.32	7.34	7.73	7.92	7.92
	Specific Conductance (us/m)	90.0	54.4	54.1	61.1	59.27	59.27
Flows	Bear Creek Keys (cfs) Monthly Avg	37.7	63.6	44.4	40.8	26.4	32.0
	Bear Creek EGL (cfs) daily	36	66	38	65	24	38

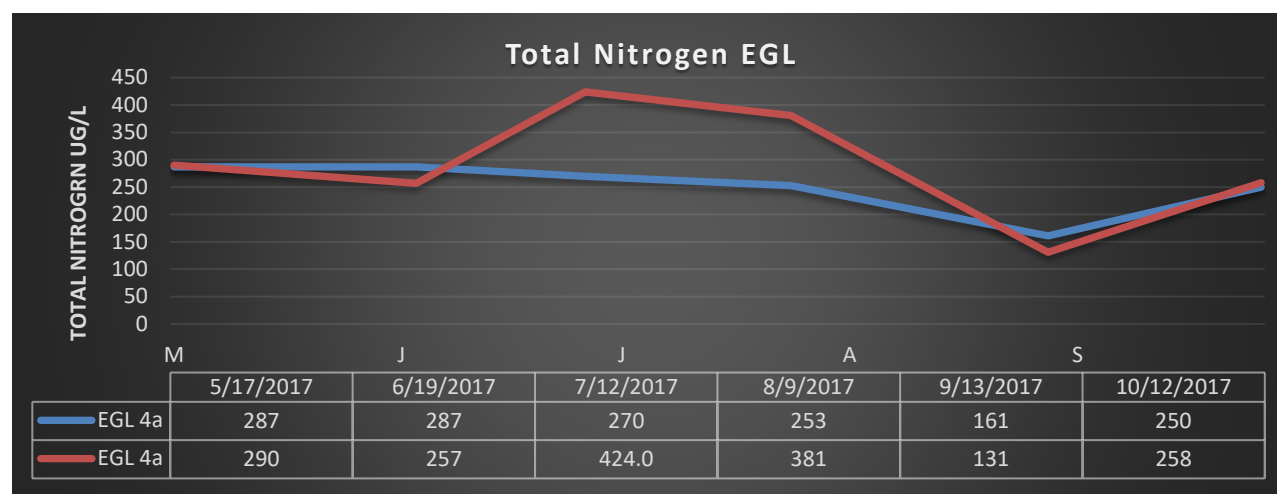


Figure 2 EGL Total Nitrogen

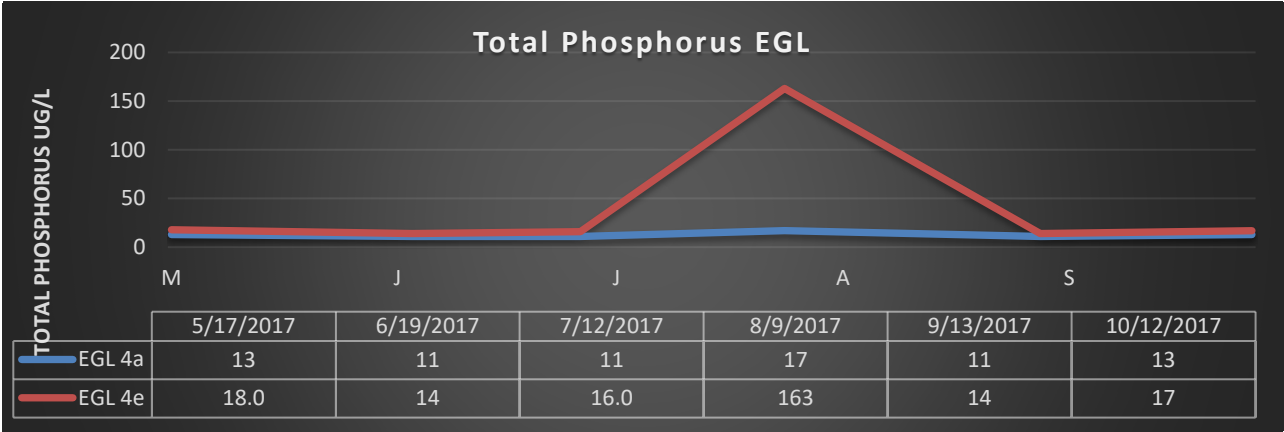


Figure 3 EGL Total Phosphorus Loading

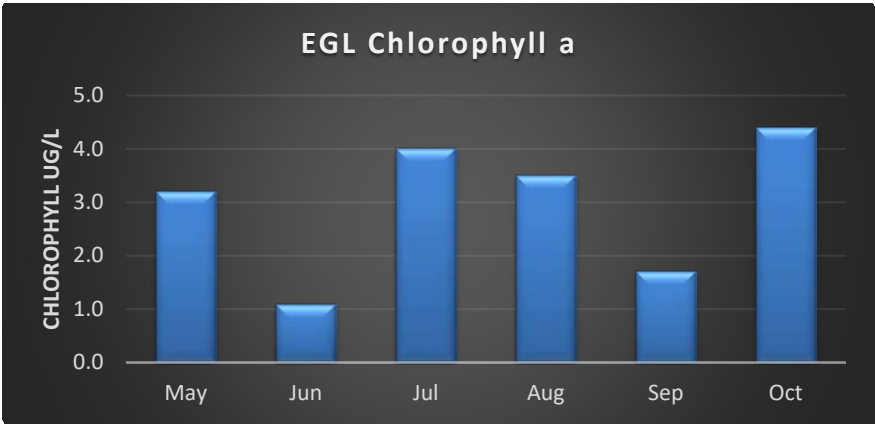


Figure 4 Chlorophyll Trend

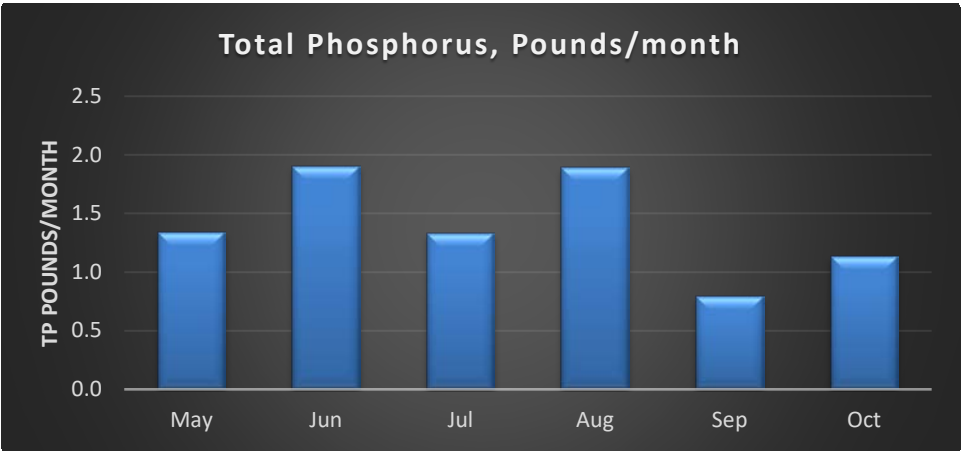


Figure 5 EGL Total Phosphorus

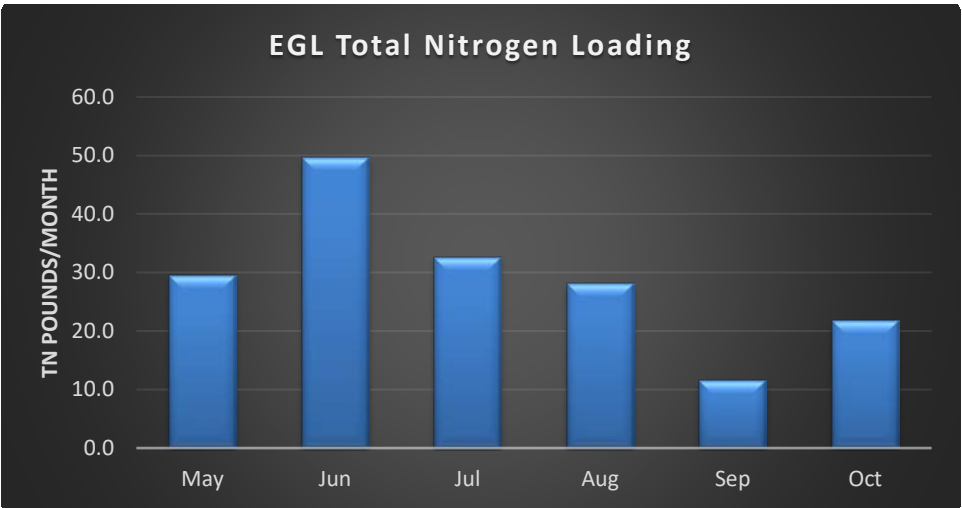


Figure 6 Total Nitrogen Seasonal Load

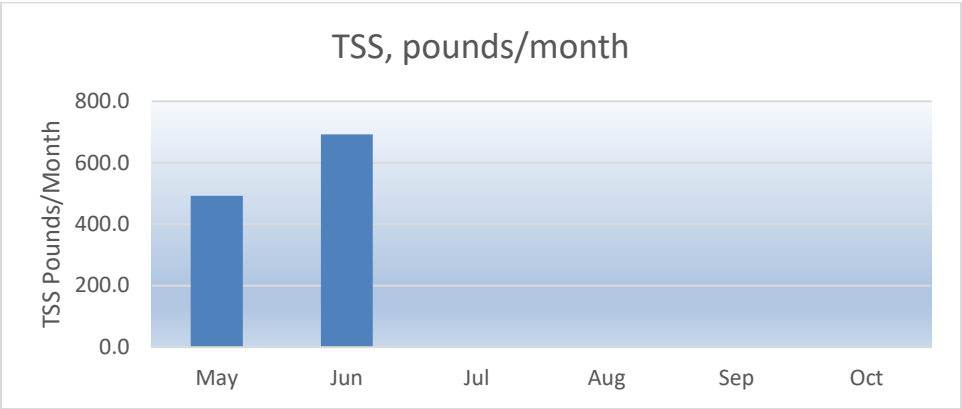


Figure 7 TSS Seasonal Load