Results of Johnson Engineering Aug/Sept 2020 Water Quality Report

Results: All 7 ponds tested show both Total Nitrogen (TN) and Total Phosphorus (TP) to be at or above the Florida Water Quality threshold for Estero Bay (*only A-1 below Estero Bay threshold for TP*).

Table 1: 2017, 2018, 2019, & 2020 Wet Season TN and TP Concentration Values

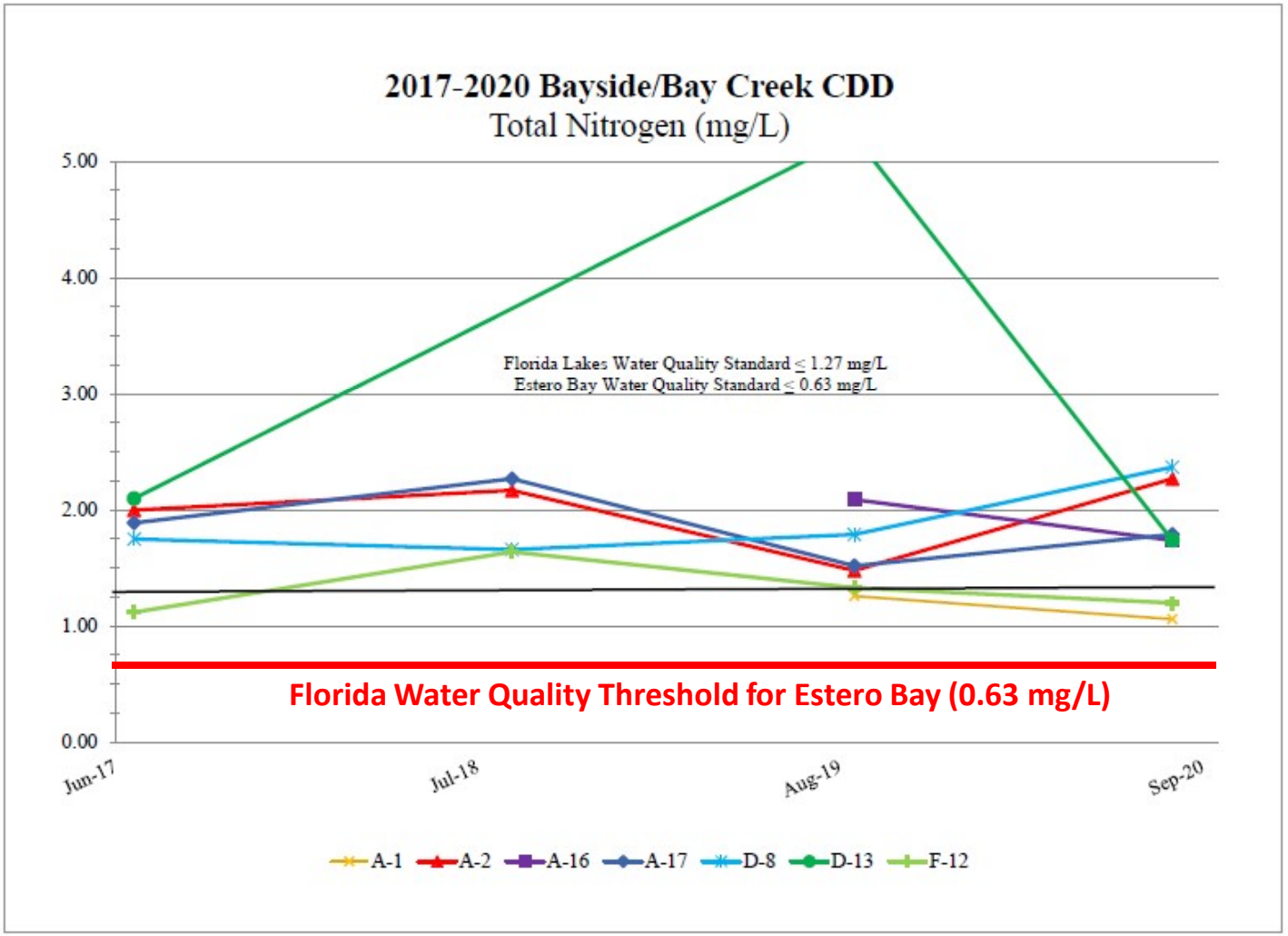
Site	Total Nitrogen (mg/L)					Total Phosphorus (mg/L)				
	2017	2018	2019	2020		2017	2018	2019	2020	
A-1	NS	NS	1.26	1.06		NS	NS	0.05	0.05	
A-2	**2.00**	**2.17**	**1.48**	**2.27**		**0.16**	**0.12**	**0.10**	**0.12**	
A-16	NS	NS	**2.09**	**1.74**		NS	NS	**0.17**	**0.20**	
A-17	**1.89**	**2.27**	**1.52**	**1.79**		**0.21**	**0.11**	**0.33**	**0.07**	
D-8	**1.75**	**1.66**	**1.79**	**2.37**		**0.11**	**0.08**	**0.29**	**0.08**	
D-13	**2.10**	NS	**5.22**	**1.74**		0.02	NS	**0.42**	**0.27**	
F-12	1.12	**1.64**	**1.33**	**9.72***	1.20**	0.02	**0.09**	**0.12**	**0.13***	**0.13****
Fresh Lakes Criteria	≤1.27(1)					≤0.05(1)				
Estero Bay Criteria	≤0.63(2)					≤0.07(2)				

* Sample collected on 8/11/20
** Sample collected on 9/21/20

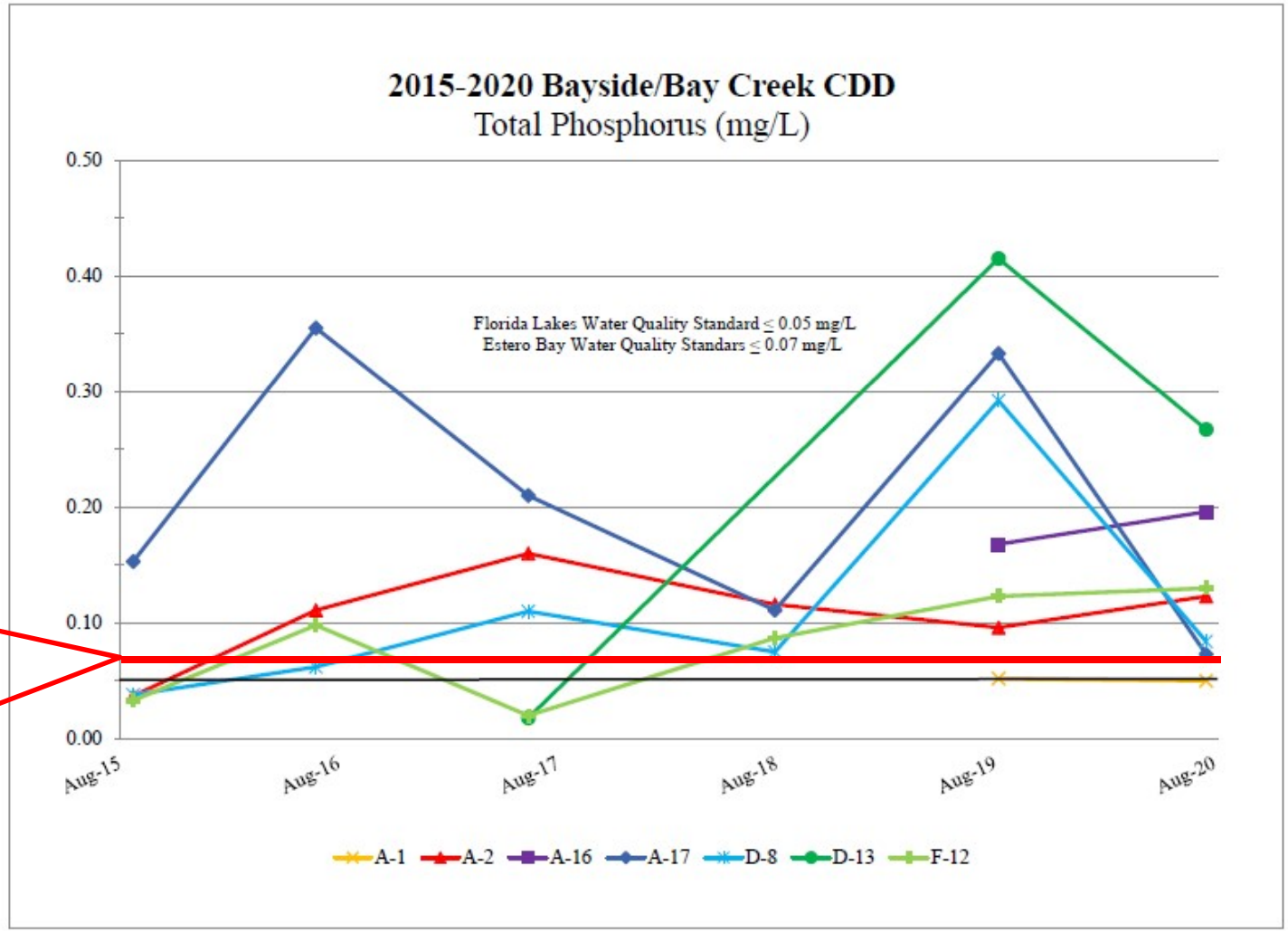
Florida Water Quality Thresholds for Estero Bay

(1) Annual geometric mean not to be exceeded more than once in any consecutive three-year calendar period, 62-302.530, F.A.C.
(2) No more than 10% of the values shall be below the standard, 62-302.530, F.A.C.

2017-2020 Bayside/Bay Creek CDD Total Nitrogen (mg/L) 2017-2020



2017-2020 Bayside/Bay Creek CDD
Total Phosphorus (mg/L) 2017-2020



Florida Water Quality Threshold for Estero Bay (0.07 mg/L)

Test Site Locations and Results

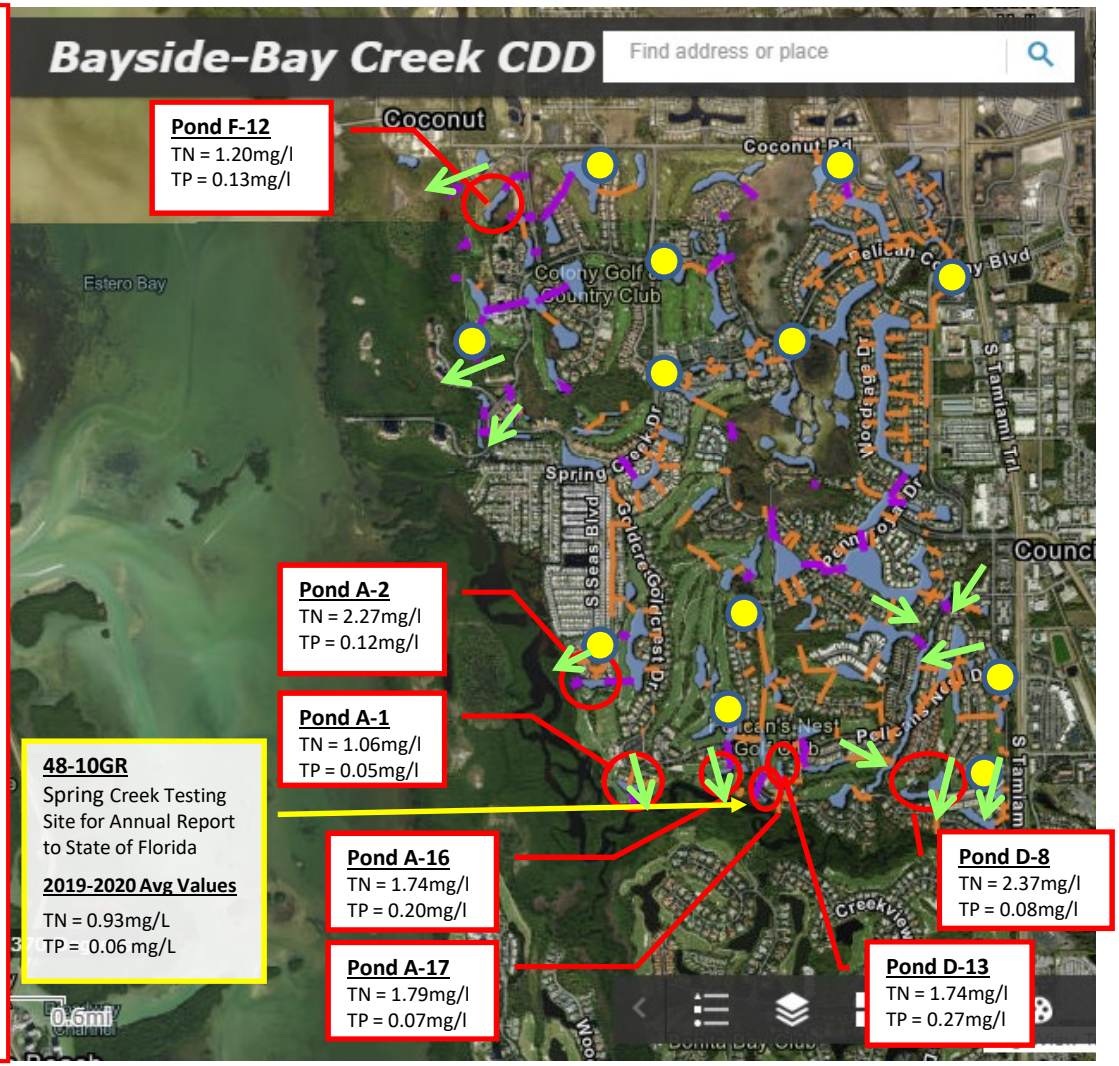
2020 Johnson Engineering Nutrient Study Results

Florida Water Quality Standards (Estero Bay WQ Threshold):

- TN = Total Nitrogen = 0.63mg/L
- TP = Total Phosphorus = 0.07mg/L

Notes:

- The 7 ponds together averaged 2.8 times the state threshold for allowable TN.
- All 7 ponds together averaged 1.9 times the state threshold for allowable TP.
- Testing shows results slightly improved from 2019
- Test data on Spring Creek used by CDDs to demonstrate pollution discharge is provided by Lee County (48-10GR)
- Barraco identified Outfalls
- 2013/14 FGCU Pond Study Sites



Interactive map located at: http://www.pelicanlandingcdds.net/