



Area Description:

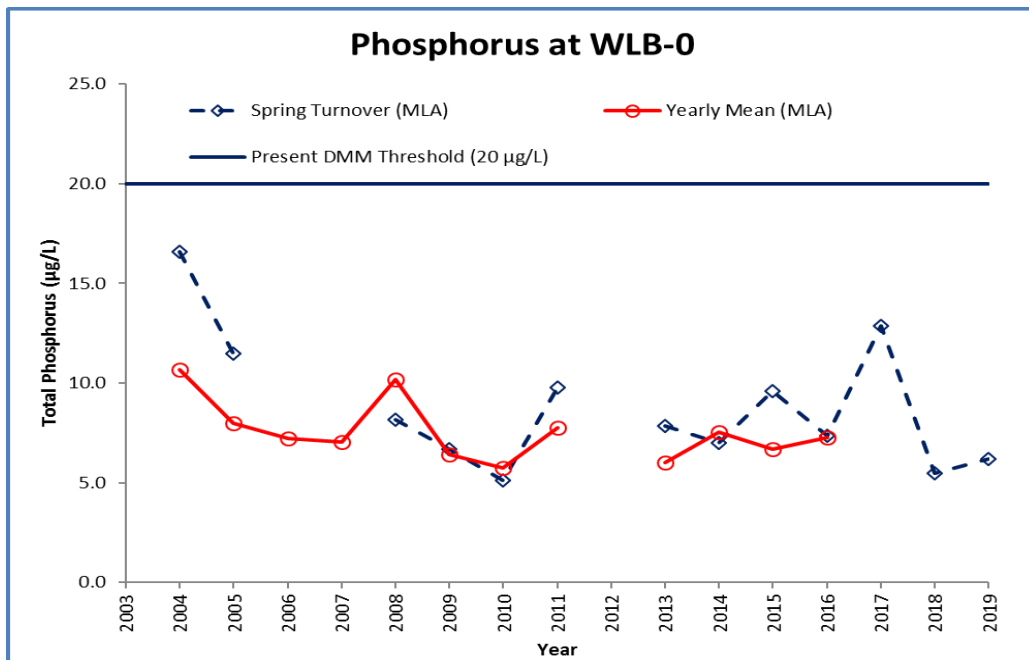
The Willow Beach sampling area encompasses a highly developed section of shoreline. There is a newly re-developed resort complex, a wetland with a creek flowing through a nine-hole golf course and several larger properties with limited retained forest cover. Highway 118 is in close proximity to the shoreline along much of this reach. Monitoring started in 2004. All stations shown may not be sampled each year.

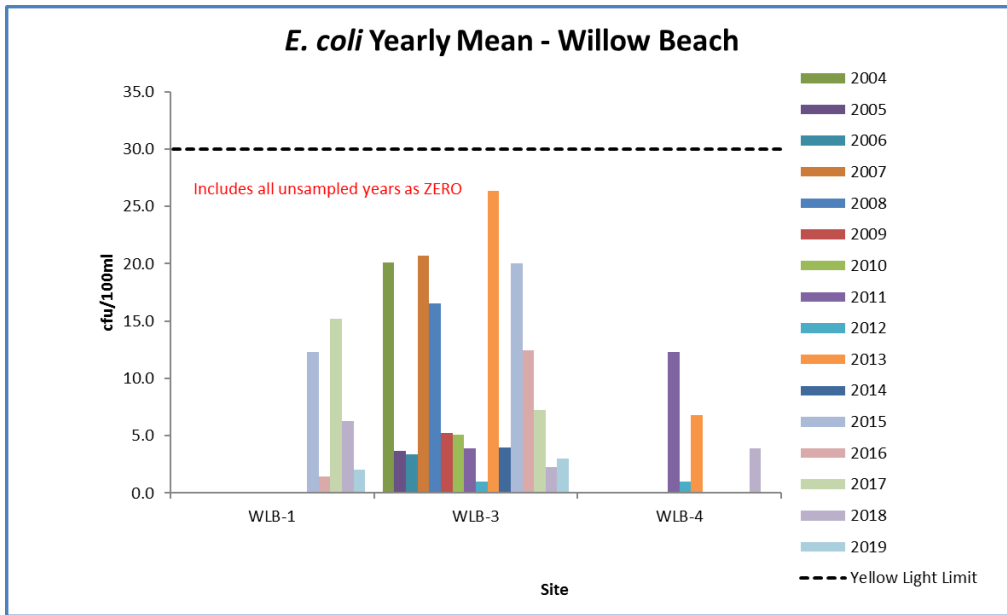
Volunteer Recognition: **Chris Cragg, Murray Walker, Emila Brittain and Louise Cragg,**

Willow Beach (WLB)

2019 Water Quality Results: (Note: Hatched cell signifies not tested for in 2019)

Station	Mean Secchi Disk (m)	Total Phosphorus ($\mu\text{g/L}$)		<i>E. coli</i> Yearly Geometric Mean (cfu/100 ml)	Total Coliform Yearly Geometric Mean (cfu/100 ml)	DOC Yearly Mean
		Spring Turnover	Yearly Mean			
WLB-0	2.7	6.2				
WLB-1		4.9	5.7	2.0	101.9	
WLB-3		13.1	8.1	3.0	104.9	
WLB-4		5.5	5.1			





Summary and Recommendations



All spring phosphorus concentrations at WLB-0 remain well below the present DMM threshold (20 µg/L). Using Grubb's Test for outliers, the spring 2006 phosphorus sample was identified as an outlier and remains out of the dataset in 2019. Only one spring phosphorus sample was collected in 2019, therefore no yearly mean could be calculated, and no value is reported for 2019. The 2019 spring turnover and yearly mean phosphorus concentrations at WLB-4 were the lowest recorded to date. The yearly mean phosphorus concentrations at WLB-1 and WLB-3 were also the lowest recorded to date. The *E. coli* levels at WLB-1, WLB-3, and WLB-4 remain well below the MLA stoplight limits (details in report Section 3). Secchi measurements are variable through sampling years, ranging between 0.84 and 6.50 m (2011). **Beacon recommends that sampling continue to monitor long-term trends.**