



### Area Description:

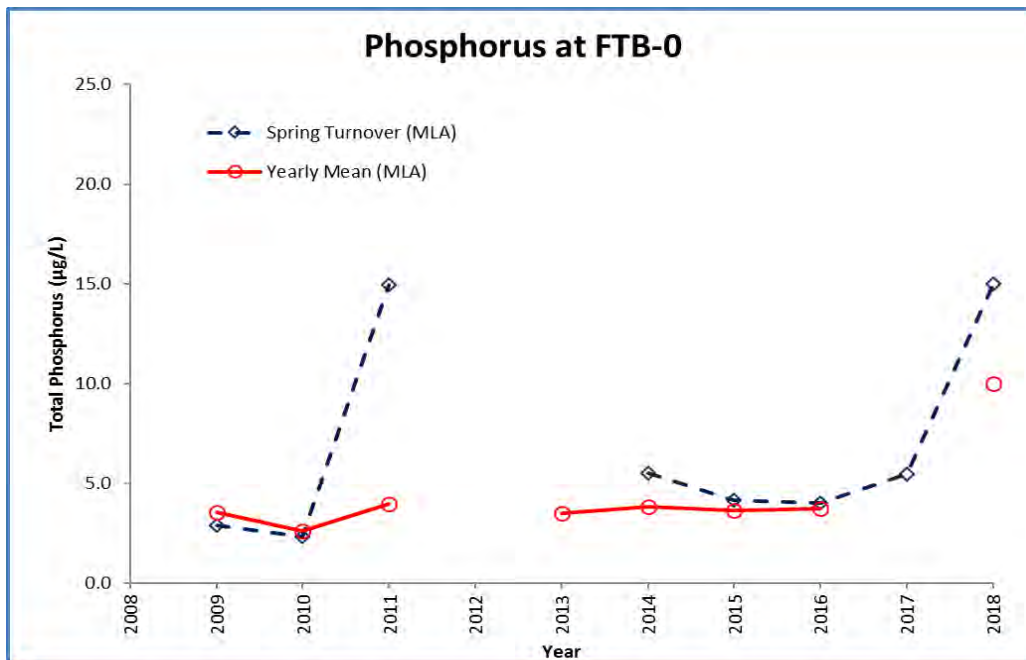
Foot's Bay is located in the south-eastern portion of Lake Joseph. Foot's Bay has a higher intensity of development in the southern section, with areas that are adjacent to the highway and a marina. There are still large areas of shoreline with mostly intact forests. The main basin of Lake Joseph is classified as highly sensitive by the DMM. Monitoring started in 2009.

**Volunteer Recognition: Joey Brown, Dave Clark, Andy Benyei, Tom Laviolette and Sharon Laviolette.**

## Foot's Bay (FTB)

2018 Water Quality Results: (Note: Hatched cell signifies not tested for in 2018)

Station	Mean Secchi Disk (m)	Total Phosphorus (µg/L)		E. coli Yearly Geometric Mean (cfu/100 ml)	Total Coliform Yearly Geometric Mean (cfu/100 ml)
		Spring Turnover	Yearly Mean		
FTB-0	6.4	15.0	10.0		
FTB-3		13.0	7.5		



## Summary and Recommendations:



The 2018 spring phosphorus concentration at FTB-0 exceeded the historic DMM threshold of 7.9 µg/L and was tied with 2010 for highest recorded level to date. The Grubb's Test for outliers at FTB-0 did not identify the 2011 spring phosphorus level as an outlier in 2018 due to the high spring phosphorus level observed in 2018. The 2018 yearly phosphorus mean value at FTB -0 was also the highest recorded to date. Phosphorus levels show an increasing trend in the last 3 years, changing the stoplight from green to yellow. The spring phosphorus value at FTB-3 is the highest recorded of 7 sampling years dating back to 2009. Secchi measurements vary through sampling years, ranging between 2.5 and 7.2. **Beacon recommends sampling continue to monitor long-term trends.**