



### Area Description:

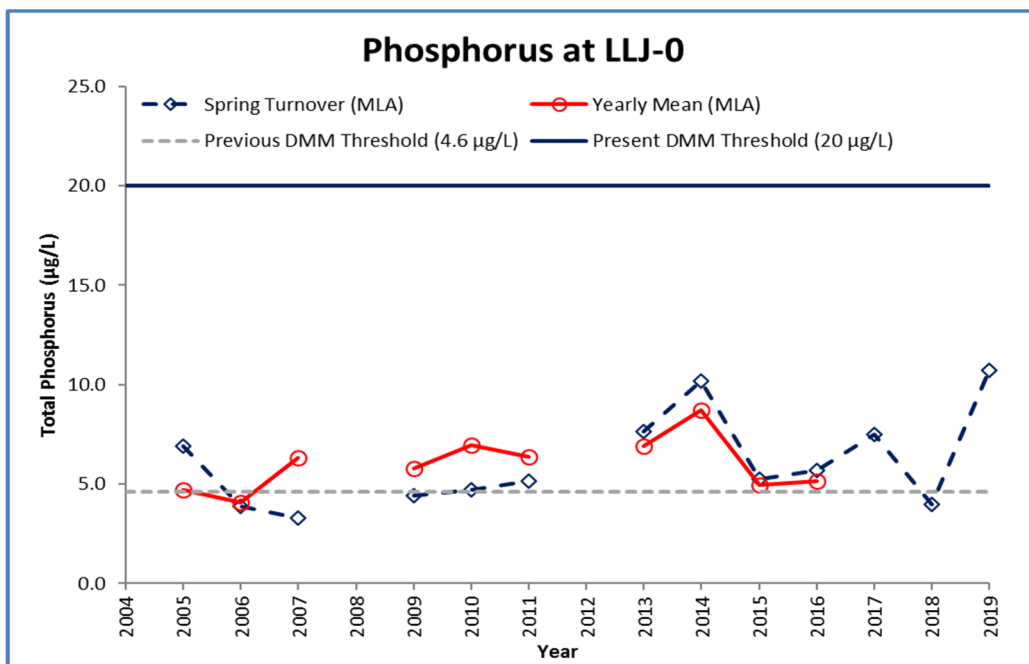
Little Lake Joseph is an isolated arm 2.8 km<sup>2</sup> in size off the eastern side of Lake Joseph. This is a deep bay with depths of up to 40 m. Most of the shoreline is in a natural state despite many cottages. Three small wetlands outlet into the bay and Little Lake Joseph was historically classified by the DMM as moderately sensitive. Monitoring started in 2005. All stations shown may not be sampled each year.

Volunteer Recognition: **Dirk Soutendijk** and **Westley Begg**.

## Little Lake Joseph (LLJ)

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

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		
LLJ-0	4.2	10.7			
LLJ-6		6.2	5.7		
LLJ-7		32.1	13.7		



## Summary and Recommendations:



The spring phosphorus concentration at LLJ-0 was the highest recorded to date and was above the historic DMM threshold of 4.6 µg/L. That said, and all readings remain well below the present DMM threshold (20 µg/L). Only one spring phosphorus sample was collected at LLJ-0 in 2019, therefore no yearly mean could be calculated, and no value is reported for 2019. Interestingly, in the 5 years of data for LLJ-6 and LLJ-7, the spring phosphorus value at LLJ-6 was the lowest recorded to date, and at LLJ-7, was the highest recorded to date. Although high spring phosphorus values were recorded, Little Lake Joseph phosphorus values did not trigger a yellow stop light in 2019. Secchi measurements vary through sampling years, ranging between 2.5 and 6.5 m (2007). **Beacon recommends continued sampling to monitor long-term trends.**