



Area Description:

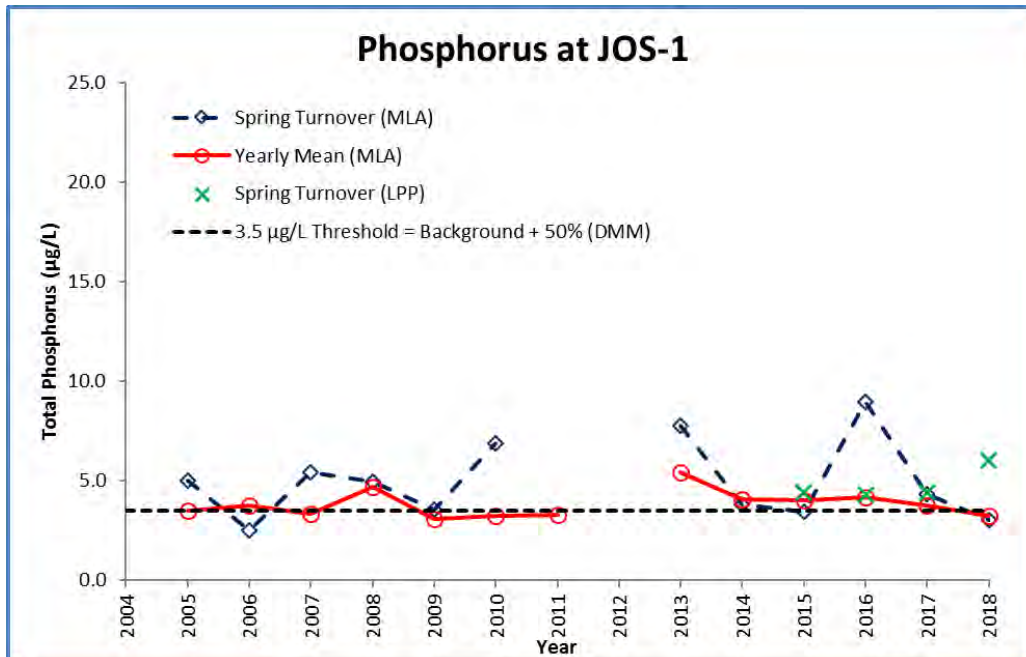
Lake Joseph is a large lake with a surface area of 50.9km² and water depths of up to 60 m. Wetlands account for a small portion of the lake area at about 5%. The lake has various points of inflow and outflow, with drainage from north to south. The Lake Joseph watershed area is 55 km² and has a coldwater fishery. The DMM has classified the main basin of the lake as highly sensitive. Monitoring started in 2005.

Volunteer Recognition: Alex Magditsch, Cecil Hayhoe, John Offutt, Juliana Magditsch, Lynda McCarthy and the Lake Partnership Program.

Lake Joseph (JOS)

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		
JOS-1	6.1	3.0	3.3		



Summary and Recommendations:



The spring phosphorus level at JOS-1 was slightly below the historic DMM threshold of 3.5 ug/L, was the second lowest recorded to date, and the yearly phosphorus mean generally has remained consistent through the sampling years. The 2018 Lake Partner Program spring phosphorus data also remains consistent through the past 4 years. Phosphorus levels are generally stable in the last 3 years, changing the stoplight from yellow to green. Secchi measurements remain stable through sampling years, varying between 3 and 7.75. **Beacon recommends sampling continue to monitor long-term trends.**