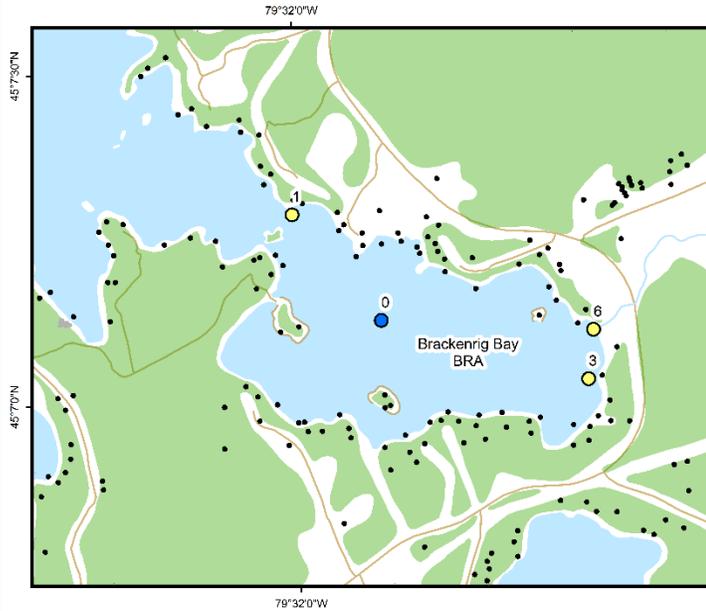




Brackenrig Bay (BRA)



Area Description:

Brackenrig Bay in southern Lake Rosseau, has an area of 0.44 km² and a maximum depth of 3 m. The bay is isolated from Lake Rosseau and is moderately developed with residential properties. Based on District mapping data 18% of the shoreline has been altered with 60% of backlot areas cleared of natural forest. Four creeks drain into the bay, one of which flows through an agricultural area adjacent to a garden center before entering the bay near BRA-6. Brackenrig Bay is not currently listed as sensitive by the DMM. MLA monitoring of Brackenrig Bay began in 2003.

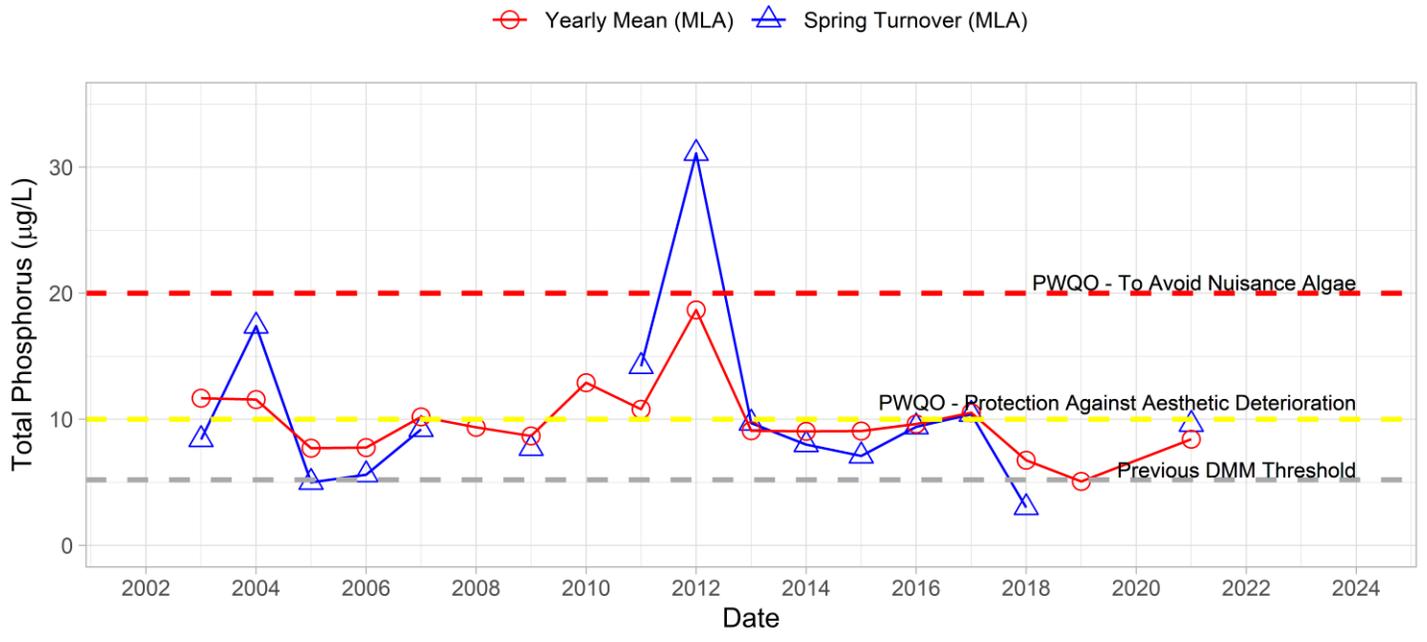
Volunteer Recognition: Judy Stephens-Wells, Ross Wells and Val Fleck.

2021 Water Quality Results:

	Mean Secchi Disk (m)	Total Phosphorus (µg/L)		E. coli Yearly Geometric Mean (cfu/100mL)	Total Coliforms Yearly Geometric Mean (cfu/100 mL)
		Spring Turnover	Yearly Mean		
BRA-0	2.2	9.6	8.4		
BRA-1		6.8	6.5		
BRA-3		35.5	13.9 (6.7)		
BRA-6		11.1	9.1		

Note: Grubbs test indicated that the total phosphorus concentration measured in spring of 2021 was an outlier. Annual average data is presented both with and without this datum.

Phosphorus at BRA-0



Note: Grubbs test indicates Spring and Annual Total Phosphorus data in 2012 are considered to be outliers.



In 2021, annual average and spring phosphorus concentrations at the deep-water station (BRA-0) were above the historic DMM threshold of 5.2 µg/L but below Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration (10 µg/L) and Nuisance Algal Growth (20 µg/L). Nearshore monitoring of annual and spring phosphorus concentrations at BRA-1, 3 and 6 were within the range of variability of previous monitoring. *E. coli* samples at all stations were not collected in 2021. Average annual Secchi disk depth (2.2 m) was consistent with previous monitoring (1.45 – 3.10 m). **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**