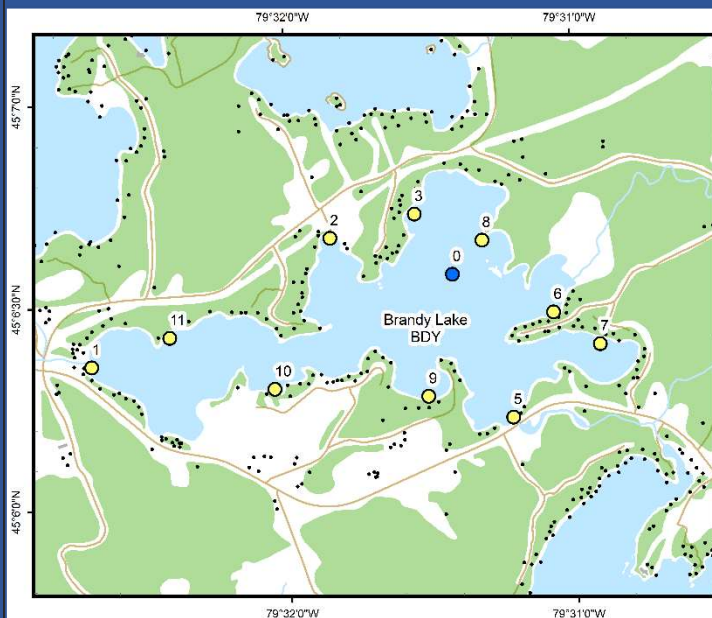




## Brandy Lake (BDY)



### Area Description:

Brandy Lake is moderately developed with a surface area of 1.15 km<sup>2</sup> and a maximum depth of 8 m. Many of the residential properties on Brandy Lake maintain a natural shoreline however, ~ 10% of the shoreline area is estimated to be un-buffered lawn. Wetlands comprise ~40% of the shoreline. Brandy Lake is a dystrophic lake, with naturally elevated dissolved organic carbon. MLA monitoring of Brandy Lake began in 2004.

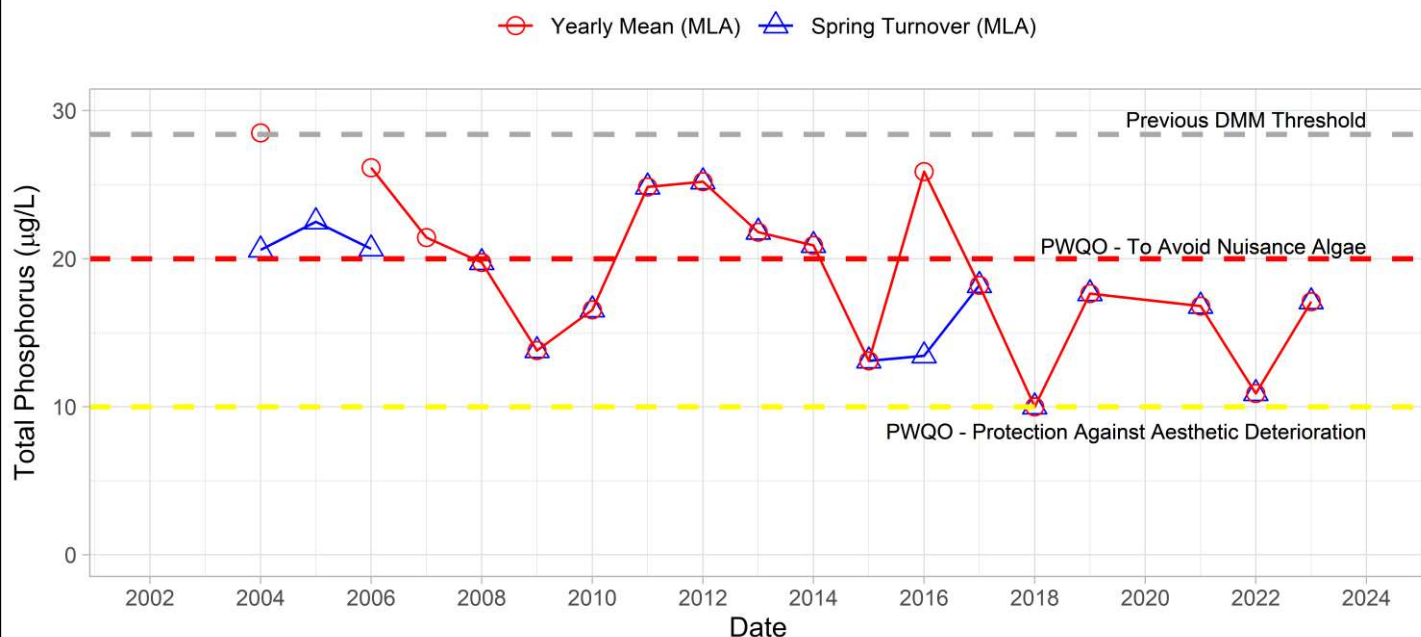
Volunteer Recognition: Kevin Trimble, Andy von Bredow, Derek Stevens.

### 2023 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		
<b>BDY-0</b>	-	17.1			
<b>BDY-1</b>	1.2			4	39
<b>BDY-2</b>	1.1			3	89
<b>BDY-7</b>	1.1			5	112
<b>BDY-9</b>	1.1			3	47
<b>BDY-10</b>	1.1			18	56
<b>BDY-11</b>	1.1			4	68
<b>BDY-12</b>	1.0			2	96
<b>BDY-13</b>	1.0			1	51
<b>BDY-14</b>	0.9			2	48

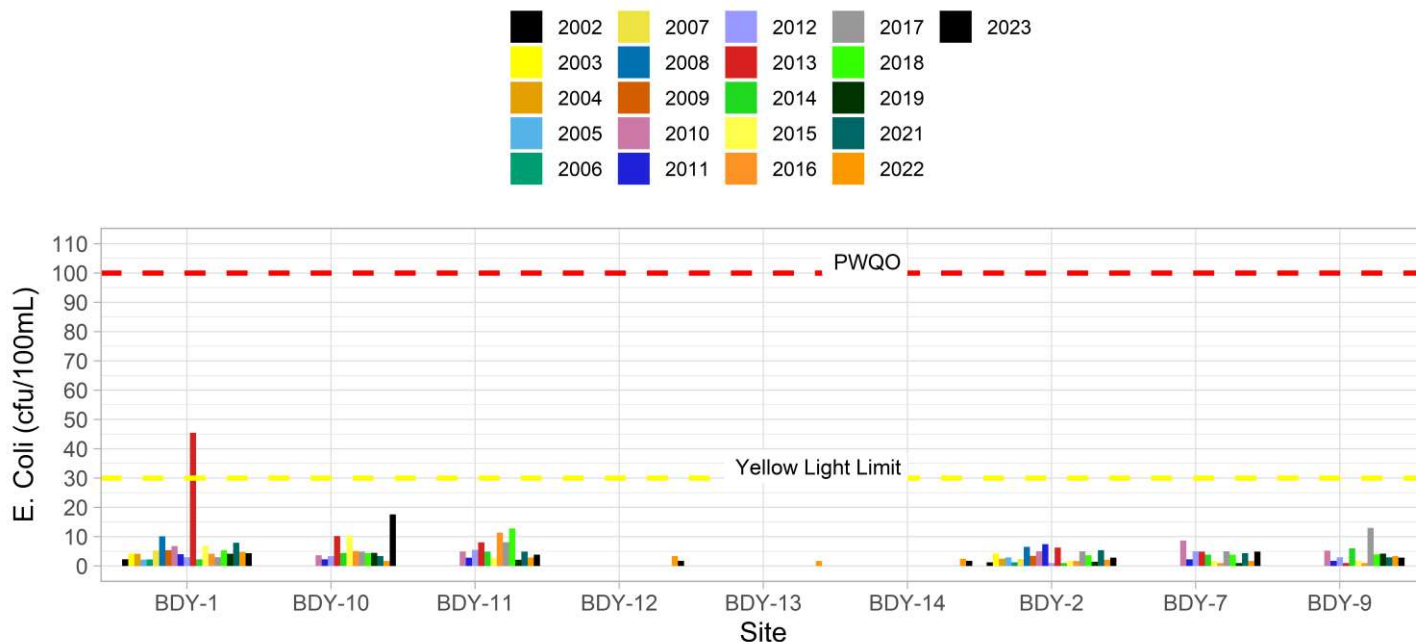


### Phosphorus at BDY-0



Note: Grubbs test indicates no data collected for spring or annual average total phosphorus concentration are considered an outlier

### E. Coli Annual Geometric Mean at Brandy Lake



In 2023, the spring phosphorus concentrations at the deep-water station (BDY-0) increased relative to 2022 but were below the historic DMM threshold of  $28.4 \mu\text{g/L}$  and the Provincial Water quality Objective (PWQO) for Nuisance Algal Growth ( $20 \mu\text{g/L}$ ), but above PWQO for Protection Against Aesthetic Deterioration ( $10 \mu\text{g/L}$ ). *E. coli* counts at all nearshore stations were below the yellow light trigger established by the MLA. Average annual Secchi disk depth at BDY-0 was not measured in 2023. Brandy Lake last experienced a cyanobacteria bloom in 2020 and therefore earned a green light in 2023. **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**