

White Lake Monitoring Data Collected in June, From 1974 to 2022

	<u>1974</u>	<u>2003</u>	<u>2013</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>
Mean Temperature (C)	26.1	27.6	27.5	28.6	30.2	29.0	27.5	28	29.6
Mean Secchi Depth (m)	>3.0	2.6	2.8	1.2	1.75	>3.0	1.25	1.25	1.25
Mean Chlorophyll a (µg/L)	*	5	2.5	10.7	8	5.5	6.4	9.4	3.4
pH Range (std. units)	4.6	4.2	6.0-6.8	6.5-7.4	6.6-7.3	6.2-6.7	7.1-7.3	6.8-7.0	6.7-6.9
Mean Dissolved Oxygen (mg/L)	8.6	8.0	7.0	7.3	7.6	7.9	8.6	7.8	8.1
Mean Total Nitrogen (mg/L)	0.211	0.11	0.39	0.68	0.50	0.481	0.757	0.870	0.745
Mean Total Phosphorus (mg/L)	0.017	<0.02	<0.02	0.02	0.02	0.014	0.025	0.031	0.029
TN/TP (mass)	12.4			34	25	34.4	30.3	28.1	26.0
# of Samples		3	3	7	7	6	6	6	6



White Lake experienced a filamentous cyanobacteria (*Planktolyngbya limnetica*) bloom from September 2017 to May 2018 (green line), and a low dosage alum treatment was applied 5/3 to 5/16/18. The June 2018 data is 6 weeks post-treatment.

1974 data from Weiss and Kuenzler (1976), with the asterisk noting that a different methodology was used for chlorophyll a, so results are not comparable with the other data in the table. 1998-2017 data from NC DEQ, and 2018-2022 data from LIMNOSCIENCES.