

Fish and Lake Committee

Water Quality Testing



Date of Test: 10/03/23

Test	Unit	Location Reading:					Threshold
		Finger 1	Finger 3	Finger 4	Lake	Beach	
E-coli	MPN/100 mL	21	70	16	<1	5	235
Dissolved oxygen	mg/L	12.2	13.61	11.73	20	n/a	5.00
Total phosphorous	mg/L	0.08	0.08	0.14	<0.04	n/a	0.05
Nitrate/Nitrate-N	mg/L	<0.50	<0.50	<0.50	<0.50	n/a	
Total Nitrogen/TKN	mg/L	14.5	10.3	3.12	1.85	n/a	
Total Nitrogen	mg/L	14.5	10.3	3.12	1.85	n/a	1.0 – 10.0
Microcystin	ug/L	<0.240	<0.240	<0.240	<0.240	0.841	8.00
pH		7	6.8	6.8	7	7	7

Notes:

- E-coli threshold for recreational water is 235; if reached, an advisory is issued. If the reading is more than 1,000 beaches must close, according to the United States Environmental Protection Agency.
- Dissolved oxygen is a function of the water's ability to support fish and other aquatic life. Any reading over 5 is regarded as good.
- Total phosphorous is a measure of essential nutrients often correlating to growth of algae in freshwaters.
- Total nitrogen is a measure of essential nutrients for algae growth. Any reading above 10 indicates possible toxicity.
- Microcystins (a type of cyanotoxin) are found in all bodies of water and under favorable conditions can multiply and create an algal bloom, according to the Ohio Department of Health, Environmental Protection Agency and the Department of Natural Resources. Readings under 8 are considered acceptable in recreational water.
- pH, potential for hydrogen, expresses the acidity or alkalinity of the water. 7 is neutral and is the goal; a pH reading less than 7 indicates acidity while a reading above 7 indicates alkalinity.
- The beach was added to the testing program to check for ecoli and microcystin.

Fish and Lake Committee meetings are typically the fourth Tuesday of every month. Please attend to learn more about what they are doing, and how you can be a part.