



Worcester Cyanobacteria Monitoring Collaborative Results 6/1/2026

The WCMC is a group of volunteer community scientists that is developing ways to assess risk of cyanotoxin exposure using fast and low-cost methods. These results are based on methods that are not certified by the Commonwealth of MA but are presented as additional information so that lake users can make informed choices about their contact.

We encourage people to use their best judgement, and “If in doubt, stay out!”

If you or your pet has been exposed to water that may contain cyanotoxins, rinse with tap water immediately. Do not let animals lick their fur. If your pet has ingested scums or water containing cyanobacteria, contact your veterinarian as soon as possible.

[CDC - Cyanobacteria Blooms and Your Health](#)

[CDC – Preventing Pet and livestock Illnesses Caused by Harmful Cyanobacteria Blooms](#)

Interpreting WCMC Results

The WCMC does not measure cyanotoxins, instead the group uses four parameters to estimate the **risk of cyanotoxin exposure**. These include **phycocyanin concentration**, **particle concentration**, **cyanobacteria density**, and the **cyanobacteria observed**. Each of the results are ranked and given a color to identify severity. The overall risk of exposure at each lake is estimated by reviewing all four parameters together. Results listed as ND (Not Detected) indicate that the result was less than the level that equipment can reliably detect.

Table 1. Legend for interpreting results

Overall Risk Rating	Phycocyanin Concentration (RFU)	Particle Concentration (#/ml)	Cyanobacteria Density
Very Low	ND - 15 - Very Low	0-1000 - Very Low	Very Low
Low	15-20 - Low	1000-5000 - Low	Low
Elevated	20-50 – Elevated	5000-10000 - Elevated	Elevated
High	>50 - High	>10000 - High	High

Table 2. Results from samples collected on 6/1/2026

Waterbody	Overall Risk Rating	Phycocyanin Concentration (ug/l)	Particle Concentration (#/ml)	Cyanobacteria Density	Cyanobacteria Genera Observed
Bell Pond	Very low	ND – Very Low	27 – Very Low	Very low	None
Buffumville Pond	Low	ND – Very Low	595 – Very Low	low	Dolichospermum
Mossy Pond	Low	ND – Very Low	128 – Very Low	low	Dolichospermum
Coes Reservoir	Low	ND – Very Low	543 – Very Low	low	Woronichinia, Dolichospermum
Cooks Pond	Very low	ND – Very Low	797 – Very Low	Very low	None
Crystal Pond	Very low	ND – Very Low	6128 - Elevated	Very low	None
East Lake Waushacum	Very low	ND – Very Low	198 – Very Low	Very low	None
Ecotarium Pond	Very low	8 – Very Low	246 – Very Low	Very low	None
Farm Pond	Low	ND – Very Low	81 – Very Low	low	Microcystis Debris
Green Hill Park Pond	Low	ND – Very Low	442 – Very Low	low	Dolichospermum
Indian Lake Clason Beach	Low	12 – Very Low	903 – Very Low	some	Dolichospermum, Woronichinia, Microcystis Debris, Microcystis
Jordan Pond	Low	ND – Very Low	1960 - Low	low	Woronichinia
Lake Lashaway	Low	ND – Very Low	458 – Very Low	low	Microcystis Debris, Dolichospermum
Little Indian Lake	Low	ND – Very Low	8729 - Elevated	some	Planktolyngbya, Dolichospermum, Oscillatoria

Waterbody	Overall Risk Rating	Phycocyanin Concentration (ug/l)	Particle Concentration (#/ml)	Cyanobacteria Density	Cyanobacteria Genera Observed
Manchaug Pond	Low	ND – Very Low	244 – Very Low	low	Microcystis Debris, Dolichospermum
Newton Pond	Very low	ND – Very Low	1847 - Low	Very low	None
Salisbury Pond	Low	13 – Very Low	4344 - Low	low	Dolichospermum, Microcystis, Microcystis Debris, Woronichinia

Table 3. Previous Results for Lakes Not Tested this Period

Waterbody	Overall Risk Rating	Phycocyanin Concentration (ug/l)	Particle Concentration (#/ml)	Cyanobacteria Density	Date Last Sampled
Burncoat Pond	Low	17	11368	low	5/16/2026
Flint Pond	Low	ND	481	low	5/16/2026
Indian Lake Morgan Park	Low	ND	1034	Low	5/16/2026
Stevens Pond	Low	ND	678	low	5/16/2026

Data Definitions

Risk of Exposure: Overall risk of exposure to cyanotoxins in the waterbody based on a holistic interpretation of the data collected.

Phycocyanin: Cyanobacteria-specific pigment concentration in the water. The more phycocyanin there is in the water, the more cyanobacteria are present. However, because different kinds of cyanobacteria produce different quantities of phycocyanin, the risk of toxin production is different for the same concentration of phycocyanin when there are different cyanobacteria present.

Particle Concentration: Particles include living and non-living materials and can be a proxy for overall turbidity of the water. High concentrations of particles in the water can be indicative of cyanobacteria blooms but can also be the result of other factors such as non-living debris and sediment. The phycocyanin concentrations and cyanobacteria density help to interpret if particles are due to cyanobacteria or other sources.

Cyanobacteria Density: The ratio of cyanobacteria to other organisms in the sample. Higher densities can indicate elevated risk of exposure to cyanotoxins. Density results do not consider concentration, but in general, systems dominated by cyanobacteria are at higher risk for producing toxins.

Cyanobacteria Observed: Genera of cyanobacteria identified in the sample. Because different cyanobacteria have different levels of phycocyanin, observed cyanobacteria help determine the threshold of phycocyanin that is considered risky.

ND: ND (Not Detected) indicates that the result was less than the level that laboratory equipment can reliably detect.