Cyanobacteria Monitoring Bi-weekly Report

Orleans Ponds- Orleans Pond Coalition and The Town of Orleans

Sample Dates: 5/28/2021

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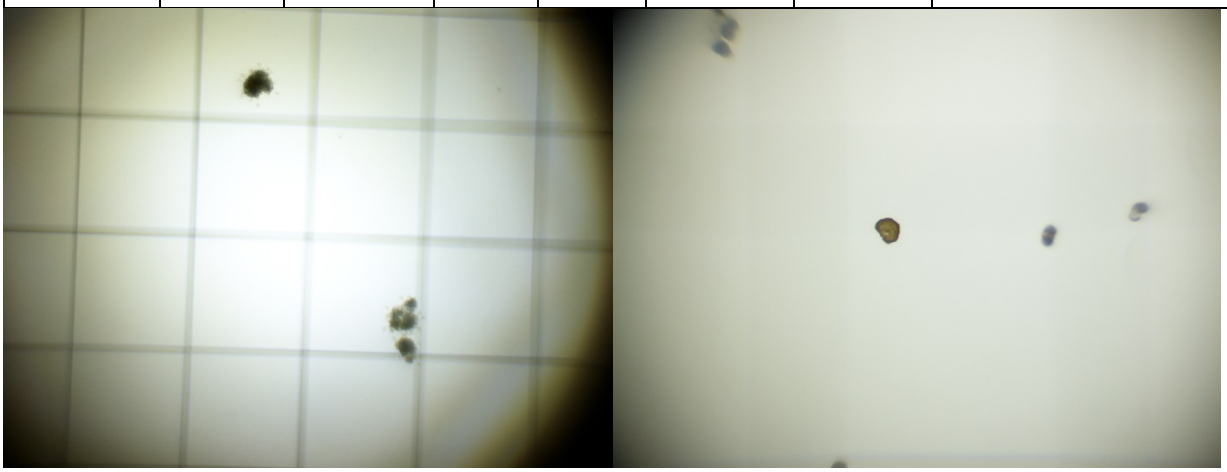
For more information: https://apcc.org/our-work/science/community-science/cyanobacteria/

Pond	Date of sample	Warning Tier	C&D	Temp (F)	Wind Direction	Recent Activity	Notes
Crystal Lake	5/28	Low	WO	67.8	W	-	-
Ice House Pond	5/28	Low	N/A	68	NE	-	-
Pilgrim Lake	5/28	Low	DS	67	NE	-	Some DS, but of low concern.
Uncle Harvey Pond	5/28	Low	WO	69.8	NE	-	Some WO, but of low concern.



Above: **Left:** Microscope photo of DS found in Pilgrim lake. **Right:** Microscope photo of a single WO found in a Crystal lake sample. Concentrations of cyanobacteria were of low concern for all ponds sampled.

Sample Locations:

Crystal Lake- Town landing of Monument Rd

Ice House Pond- OCT trailhead on Brick Hill Rd (opposite Champlain Rd)

Pilgrim Lake- Town beach off Herringbrook Rd

Uncle Harvey Pond- Town landing off Pochet Rd

Abbreviations:

C&D (Composition and Dominance) Identifies the dominant genus of cyanobacteria found in the sample.

DS (*Dolichospermum*) Common genus of cyanobacteria. Produces regulated toxins at low level.

MC (*Microcystis*) Common genus of cyanobacteria. Produces regulated toxins at relatively high levels.

Mixed Indicates that no single genus of cyanobacteria was found to be dominant.

WO, AZ (*Woronochinia* and *Aphanizomenon*) Additional genera of cyanobacteria that are believed to produce regulated toxins at a similar rate to *Dolichospermum*.

Warning Tier Descriptions

"Low" (BLUE) indicates safety for recreational activities according to state standards and our data at the time of sampling.

"Moderate" (YELLOW) indicates the cyanobacteria concentrations in the pond are potentially dangerous to children or pets if ingested.

"High" (RED) indicates APCC found either toxin levels approaching state standards for recreation or found a visible cyanobacteria scum; each poses a considerable potential risk for human and pet interactions with the pond.

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