

## **Algal Blooms on White Lake – Selective Occurrences 2016 and 2017**

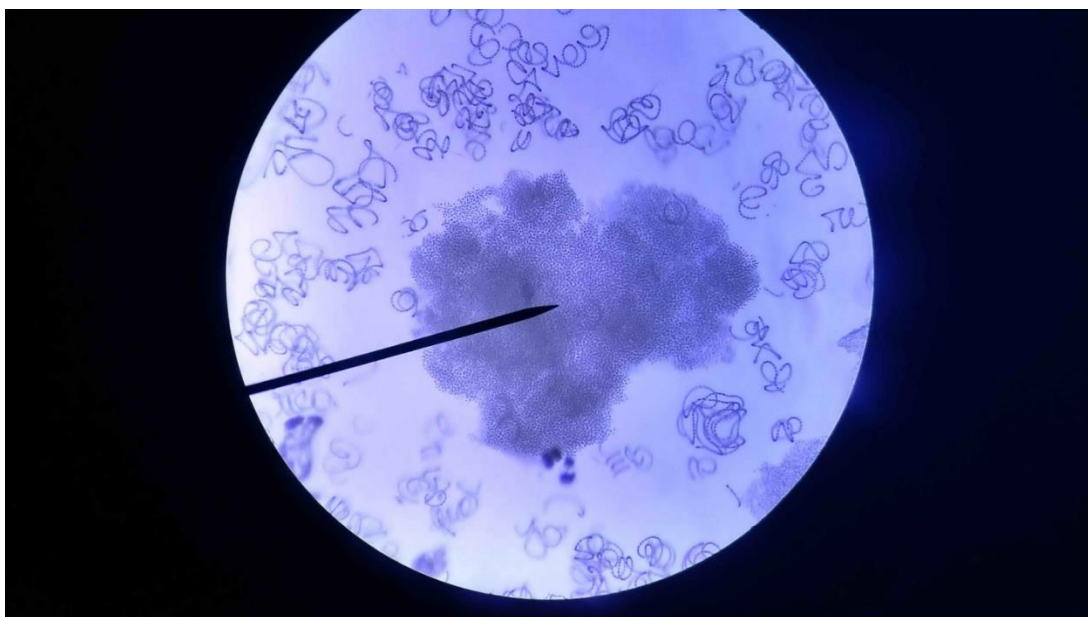
The following three photos were taken on Hayes Bay on June 26, 2016. This algal bloom was observed only at this location and nowhere else on the lake.





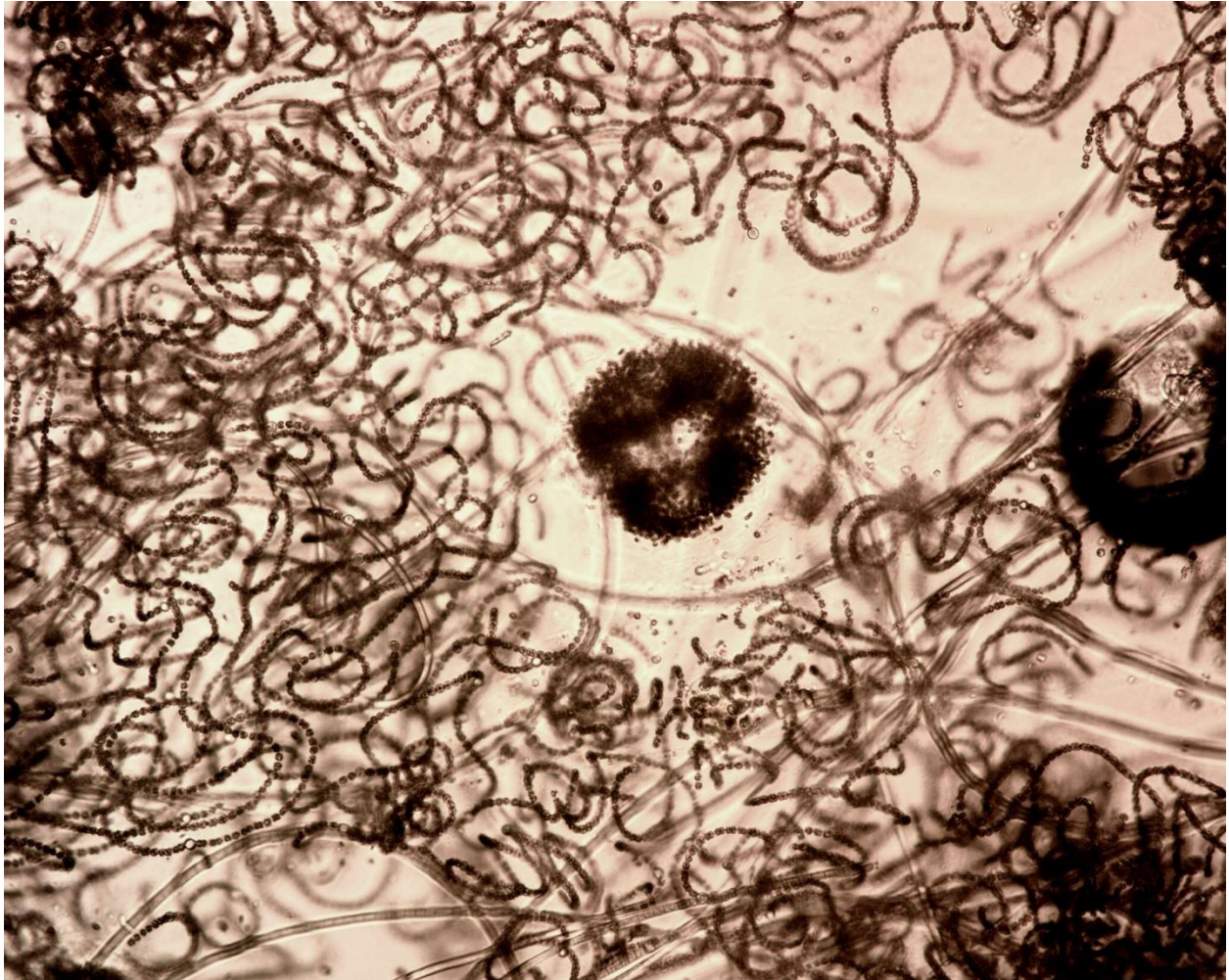
The appearance of this bloom is similar photos published on the internet: (<file:///C:/WLPP%20Website/Documents/BG%20Algae%20Notice%20Guides/Ohio%20Visual%20Guide%20BG%20Blooms.pdf>)

The same floating masses were observed on October 7, 2016, this time on the western shore of the lake. Microscopic analysis showed that the mass was composed of microcystis and anabaena blue green algae.

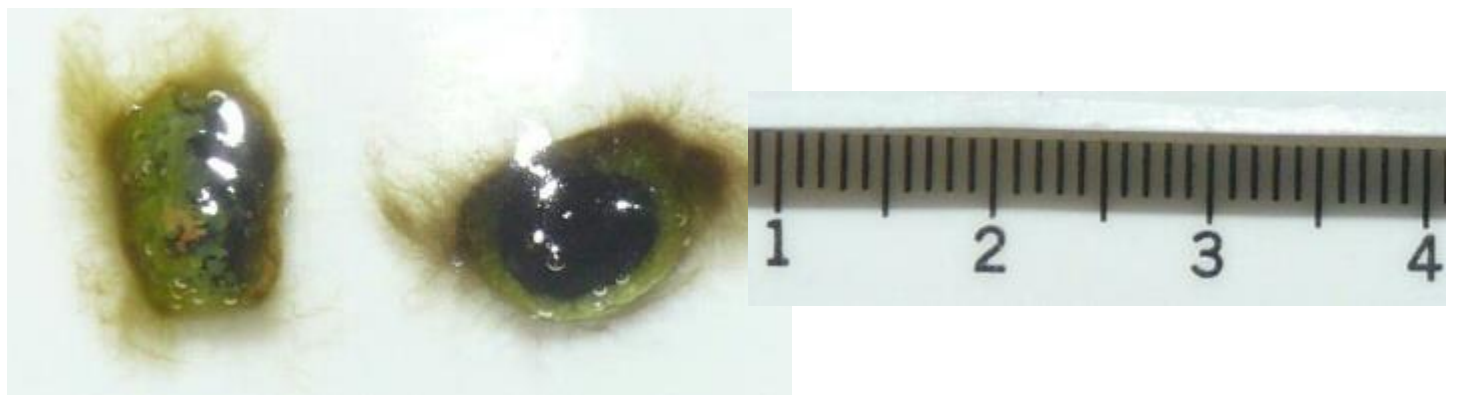




These characteristic algal masses reappeared on August 28, 2017. Floating algal masses were observed in Three Mile Bay, near Hardwood Island, Pickerel Bay, and Hayes Bay. The photomicrograph again shows the presence of microcystis and anabaena blue green algae.



Below is a photo of the algal mass retrieved from the lake surface on August 28, 2017.



None of the above observed algal blooms progressed into a full-blown bloom requiring the collection of samples for analysis for toxins. The water column itself was not significantly contaminated with visible algae. However, it is likely that conditions leading to a much larger and more dangerous algal bloom were narrowly averted by factors such as local atmospheric conditions. It is worth noting that there were two lake-wide blue-green algal blooms in White Lake, one of which did contain harmful levels of toxins (2014 and 2015).