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July 30, 2020

MEMORANDUM

TO: Cameron Ogilvie
Ottawa District Office

FROM: Kaoru Utsumi
Phytoplankton Specialist

**RE: Algal identification of sample collected on July 23, 2020
from Muskrat Lake (Muskrat - 1) (C265651)**

Analysis of the sample was indicative of a bloom of blue-green algae (specifically: *Anabaena* (aka *Dolichospermum*), *Gloeotrichia*). Many species of blue-green algae (also called cyanobacteria) have the potential to produce toxins that are harmful to the health of humans and animals. This determination was based on the amount of algal material present in the submitted sample.

Small amounts of the following types of algae were observed in the sample, at levels considered too low to contribute to a bloom:

- blue-green algae (specifically filamentous blue-green algae, *Lyngbya*, *Oscillatoria*)

Observations included particles that were not identified as algae: debris, bacteria, Protozoa.

The information in this memo was intended for the individual and/or entity to which it is addressed. If you are the intended recipient and would like more information about this analysis, please contact Kaoru Utsumi at Kaoru.Utsumi@ontario.ca. If you are not the intended recipient, please contact Cameron Ogilvie for more information.