# BLACK LAKE

VLAWMO
Vadnais Lake Area
Water Management Organization

## QUICK FACTS

| | |
|---|---|
| Lake Catchment Area | 664 acres |
| Surface Area | 11 acres |
| Maximum Depth | 12.5 ft |
| Average Depth | 6 ft |

### Common Fish

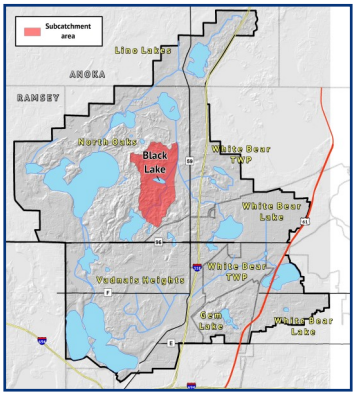
Unknown

### Common Vegetation

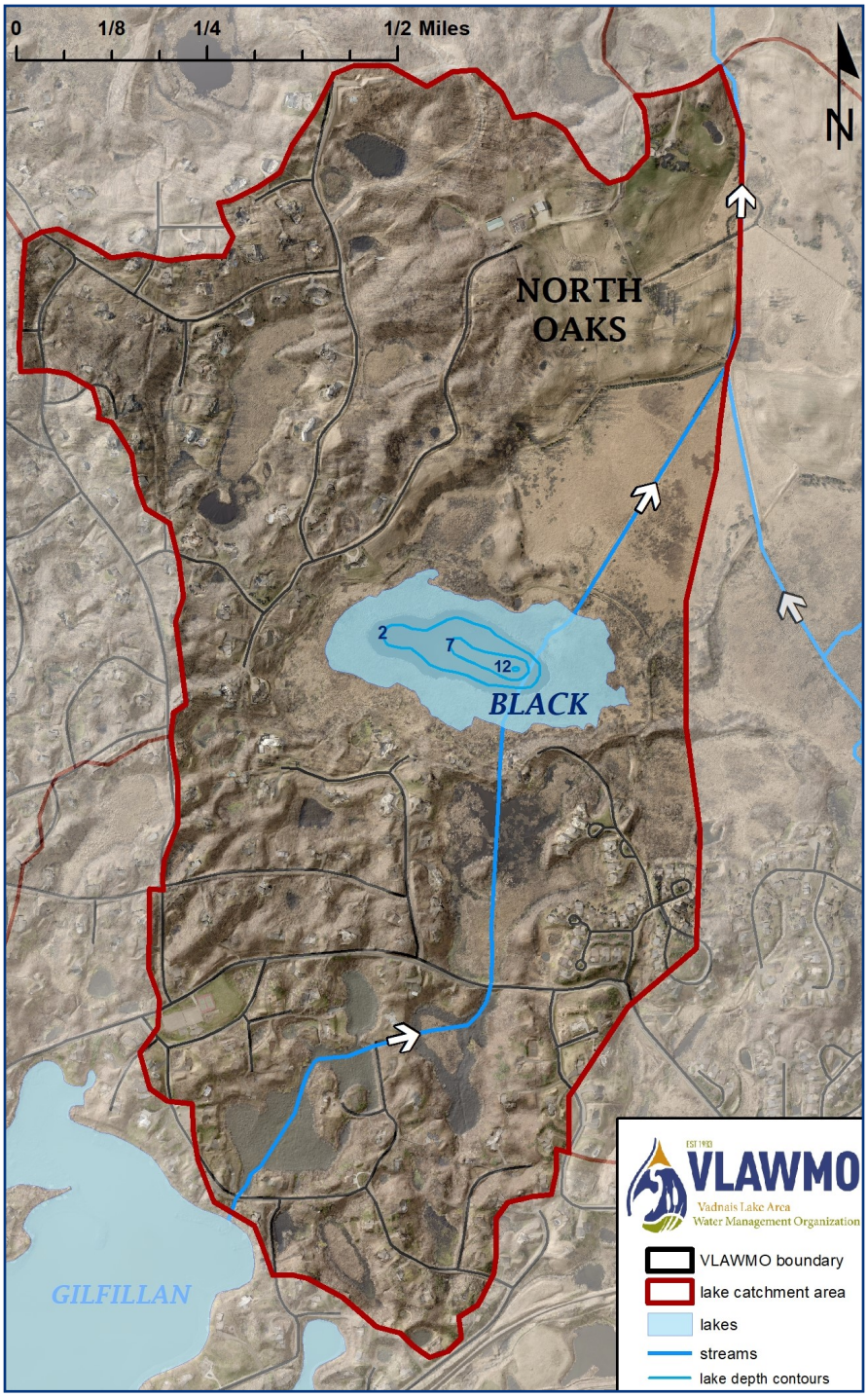
Wild rice, Coontail, White water lily, Chara, Sago pondweed

### Invasive Species

Hybrid cattail, Purple loosestrife, Reed canary grass, Amur silver grass




**LOCATION:** Black Lake is located in the City of North Oaks near the center of the VLAWMO watershed. It's surrounded by 27 acres of cattail marsh, forest, and residential lots. The lake receives water from Gilfillan Lake and a network of ponds to the south, and outlets to Wilkinson Lake to the north.

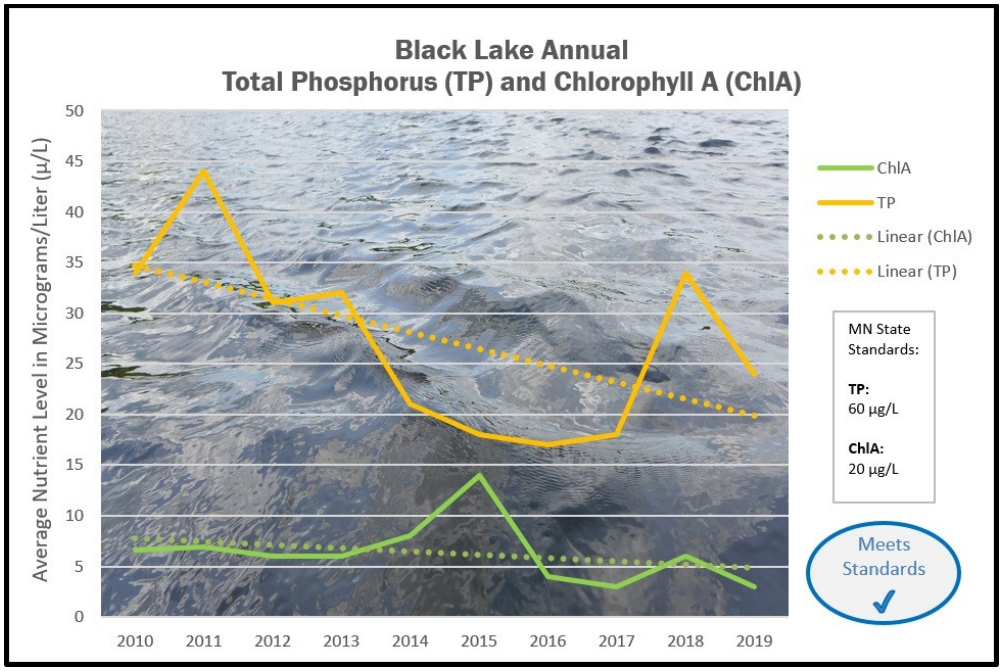



**LAKE SUMMARY:** Black Lake is the cleanest lake in the VLAWMO watershed. All potential contaminants and nutrient levels are below state standards. The lake has no public access, and thick wetland vegetation surrounds open water. This bog buffer makes access for monitoring difficult, but also provides protection and helps to filter pollutants.

It is the only lake in VLAWMO that has wild rice, most of which is eaten by migrating waterfowl.

## NUTRIENT SUMMARY:

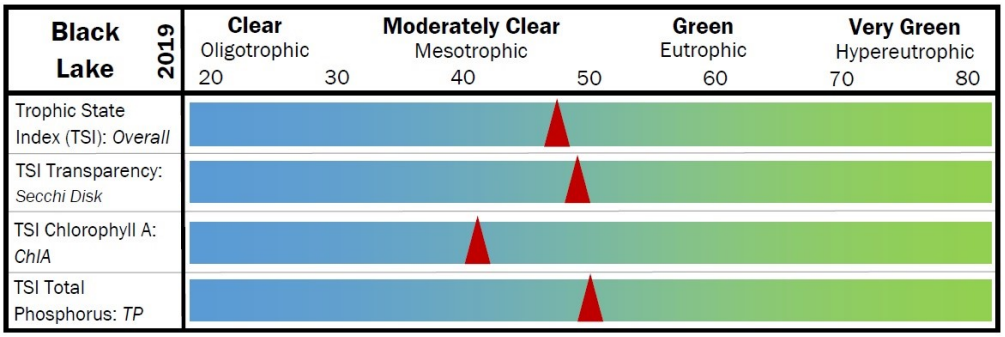
Nutrient levels meet State standards. For a shallow lake, the phosphorus standard is 60 µg/L and 20 ug/L for Chlorophyll-A. VLAWMO's current goal is to maintain the existing trophic status. Improving the impaired Gilfillan Lake to the South is a strategy to improve Black Lake, because Gilfillan drains into Black.




## BLACK LAKE STUDIES:

An aquatic plant survey and biovolume depth analysis were completed in 2014.

A follow-up vegetation survey was conducted in 2015 to look specifically at Wild rice extent. That survey showed that 40% of the lake has wild rice present during its growing season.



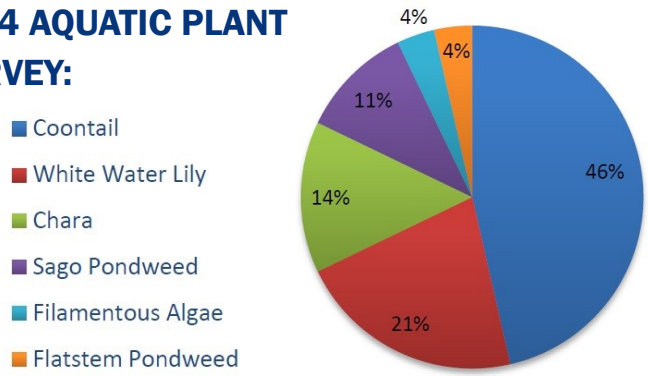

**Trophic State Index (TSI):** A TSI rating is a calculation based on the lake data averages. These values are used to compare lakes using a consistent scale.

A shoreline plant inventory was conducted between VLAWMO and the Ramsey Soil and Water Conservation Division in 2015. This survey focused on the wetland surrounding Black Lake. 30 different plant species were documented, including native and invasive plants. Staff will use these data to track changes and assess future needs for Black Lake. Maintaining a diverse native plant community will protect Black Lake's water quality and wild rice.


Wild Rice Beds


Coyotes at Black Lake

## 2014 AQUATIC PLANT SURVEY:




*Visit vlawmo.org/waterbodies/black-lake for studies and reports on Black Lake.*