

## Hyland Lake

Located in Bloomington, Hyland Lake is surrounded by Hyland Lake Park Reserve, a Three Rivers Park District facility. Visitors can paddle the lake in the summer, hike nearby trails, and ski in the winter.

During June through September of each year, District staff visit the lake every two weeks to collect water samples and take readings. Samples are sent to a laboratory to be tested for nutrients and other compounds. Staff also measure water clarity by lowering a Secchi disk into the water and measuring how deep it goes before it's no longer visible. The data indicates the lake's health based on standards set by the Minnesota Pollution Control Agency (MPCA).

Hyland Lake is classified as a "Shallow Lake" by the MPCA. To be considered healthy, the lake must have very low average phosphorus and chlorophyll-a levels and average water clarity of 1.0 meter (3.3 feet) or greater. See summary below; data details may be found on the other side of the page.

**Total Phosphorus:** No significant trend. In 2021, the lake met the MPCA standard with an average total phosphorus level of 0.058 mg/L.



**Chlorophyll-a:** No significant trend. In 2021, the average reading for chlorophyll-a was 31.1 µg/L.

**Water clarity:** No significant trend. The lake consistently meets the standard for water clarity. The average reading in 2021 was 1.1 meters.



**Plants:** Turions are the primary reproductive structures of invasive Curly-leaf Pondweed. A turion survey in 2021 showed an increase in the number of turions in the lake. An increase in turions in 2020 as well indicates a robust population, likely due to improved water clarity after the 2019 alum treatment



### Lake & watershed characteristics

Lake size	84 acres
Average lake depth	7.5 feet
Maximum lake depth	12 feet
MPCA lake classification	Shallow lake
Watershed size	922 acres
Impervious surface	17% of watershed
Impairment listing	Nutrients
Common fish	Bluegill, Black Crappie, Walleye, Black Bullhead, Largemouth Bass
Invasive species	Curly-leaf Pondweed



### Watershed Boundary



### Top 3 things you can do at HOME to protect the LAKE



#### Protect storm drains.

Prevent grass clippings, lawn fertilizer and debris from entering storm drains so they don't end up in the lake.



#### Pick up dog waste.

Did you know that pet waste pollutes water? It's full of nutrients and bacteria. Bag it and toss it in a trash can.



#### Reduce stormwater runoff.

Reduce the flow of stormwater off your property by installing a rain garden, native planting, or rain barrel.

# Hyland Lake Water Quality by the Numbers

The graphs below show water quality trends over time with the red line showing the MPCA standard for shallow lakes. Three Rivers Park District provides most of the water quality and plant survey data for Hyland Lake.



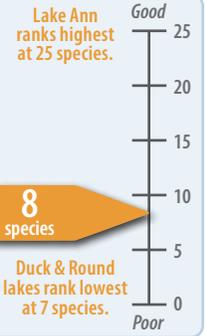
## Averages

Water Quality Parameter	Historical average	2021 average	MPCA standard: Shallow Lakes
Total Phosphorus (mg/L)	0.094	0.058 ★	< 0.06
Chlorophyll-a (µg/L)	57.2	31.1	< 20
Water Clarity (meter)	1.1 ★	1.1 ★	> 1.0

★ = Standard met

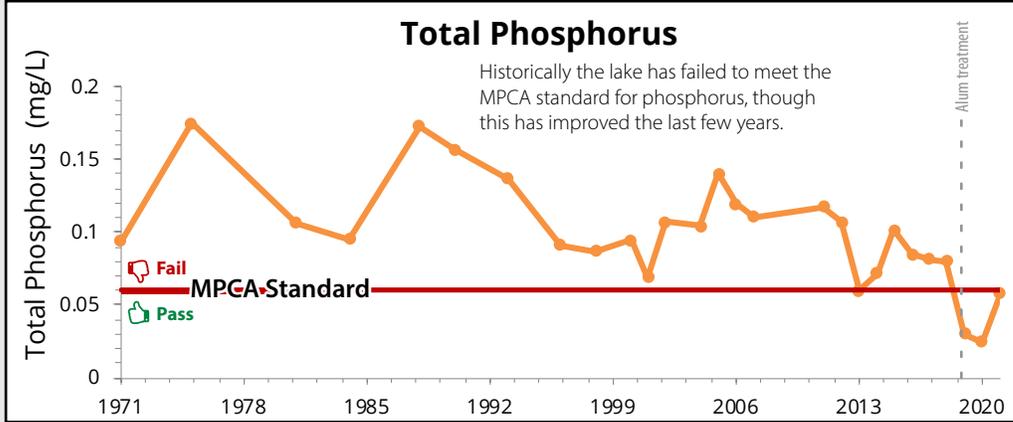
## Native Aquatic Plant Diversity

How does **Hyland Lake** compare to **other lakes** in the District?



## Trends Over Time: 1972-2021

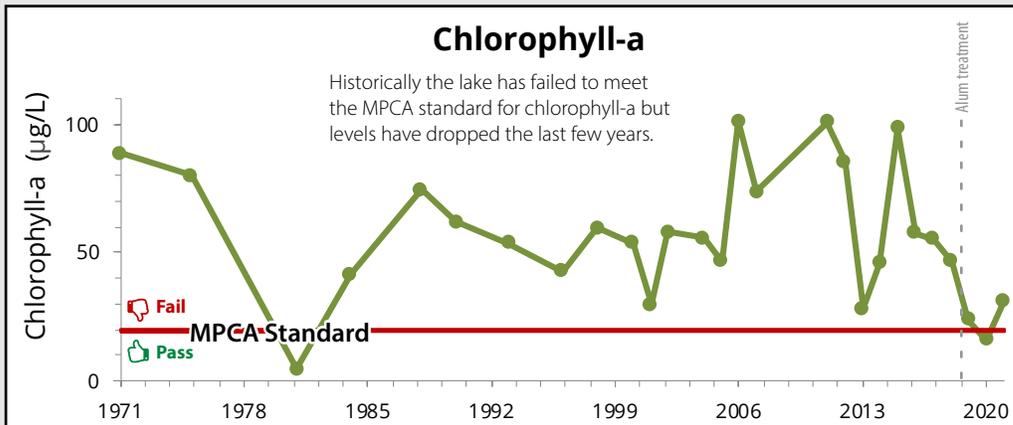
Read the **2021 Water Resources Report** at [rpbcd.org/annualreport](http://rpbcd.org/annualreport)



Hyland Lake received an alum treatment in 2019. Alum limits the availability of phosphorus in lakes to control algae growth & improve water clarity.

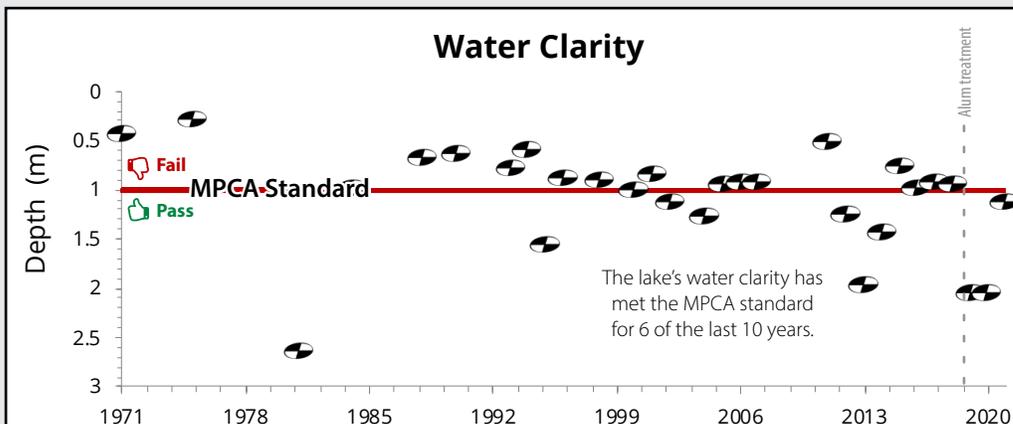
**Phosphorus** is a nutrient plants and algae need to grow. Too much phosphorus may cause algae blooms.

Filamentous algae bloom



**Chlorophyll-a** is the main pigment in algae and indicates how much algae is growing in the water. High levels mean excess growth.

CSIRO



**Water clarity** is measured by lowering a Secchi Disk into the water. The depth at which the disk is no longer visible is the water's clarity measurement.

Secchi disk



### Grants for Shoreline Restoration

The watershed district offers up to **75% cost share** assistance for restoring your shoreline! Learn more: [rpbcd.org/grants](http://rpbcd.org/grants)



### Contact us

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