

Round Lake

Located in Eden Prairie, Round Lake is a part of the Purgatory Creek Chain of Lakes. With a park and trail system around the lake, it is a popular recreation spot.

During June through September of each year, City of Eden Prairie 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 is no longer visible. The data indicates the lake's health based on standards set by the Minnesota Pollution Control Agency (MPCA).

Round Lake is classified as a "Deep 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 1.4 meters (4.6 feet) or greater. See summary below. Additional details are located on the next page.



Total Phosphorus: Since the alum treatment in 2012 the average TP concentrations have been consistently below the MPCA deep lake standard. In 2022, Round Lake had an average TP concentration of 0.028 mg/L.

Chlorophyll-a: The average chlorophyll-a concentrations have consistently been below the MPCA deep lake standard. In 2022, the average chlorophyll-a concentration was 9.3 µg/L.



Water clarity: Since the alum treatment in 2012, the average Secchi disk depth has stabilized around 2.3 meters. In 2022, the average Secchi disk depth was 2.7 meters.



Plants: In a July 2022 plant survey, Eurasian Watermilfoil growth was found at 47% of sites ranging from light to heavy growth. Plants were observed growing out to a depth of 10 feet in summer. Submerged plants, dominated by native Coontail, covered more than 22 acres of the lake bottom. White Water Lily was relatively widespread at a moderate density along much of the shoreline.

Lake & watershed characteristics

Lake size	30 acres
Average lake depth	11 feet
Maximum lake depth	37 feet
MPCA lake classification	Deep lake
Watershed size	440 acres
Impervious surface	32% of watershed
Impairment listing	Mercury
Common fish	Bluegill, Yellow Bullhead, Black Bullhead, Black Crappie
Invasive species	Curly-leaf Pondweed, Eurasian Watermilfoil, Brittle Naiad



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.

Round Lake Water Quality by the Numbers

The graphs below show water quality trends over time with the red line showing the MPCA standard for deep lakes.

For the last few years, the City of Eden Prairie has collected water quality data for Round Lake.



Averages

★ = Standard met

Water Quality Parameter	Historical Average	2022 Average	MPCA Standard: Deep Lakes
Total Phosphorus (mg/L)	0.042	0.028 ★	< 0.040
Chlorophyll-a (µg/L)	13.3 ★	9.3 ★	< 14.0
Water Clarity (meter)	2.3 ★	2.7 ★	≥ 1.4

Native Aquatic Plant Diversity

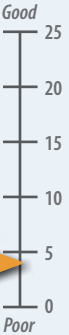
How does **Round Lake** compare to **other lakes** in the District?



Lake Ann ranks highest at 25 species.

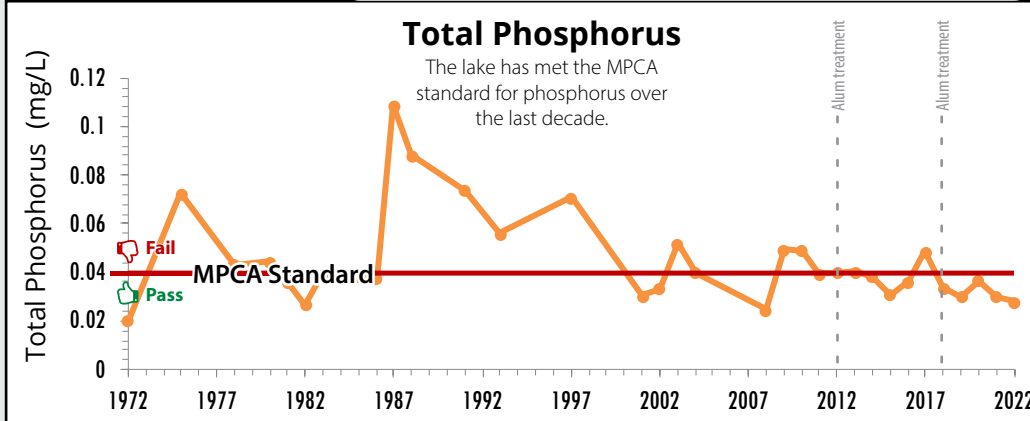
Hyland & Round lakes rank lowest at 4 species.

4 species



Water Quality Graphs, 1972-present

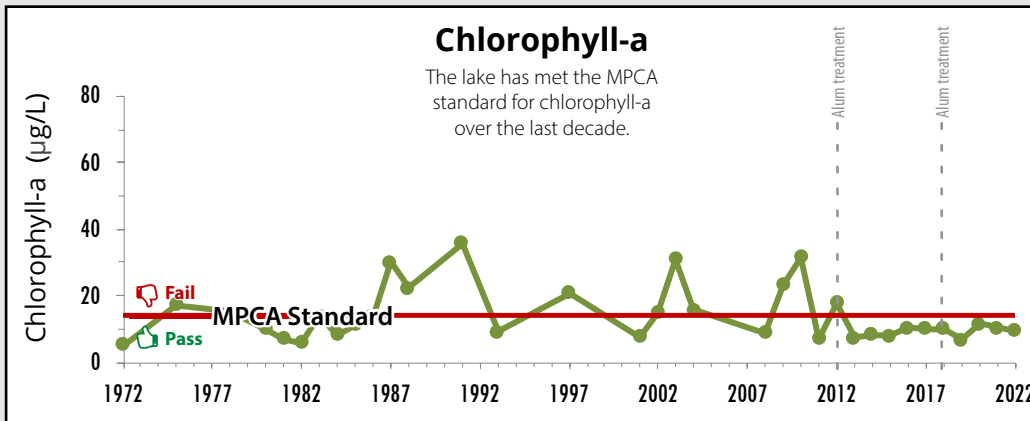
Read the **Water Resources Report** at rpbcbd.org/annualreport



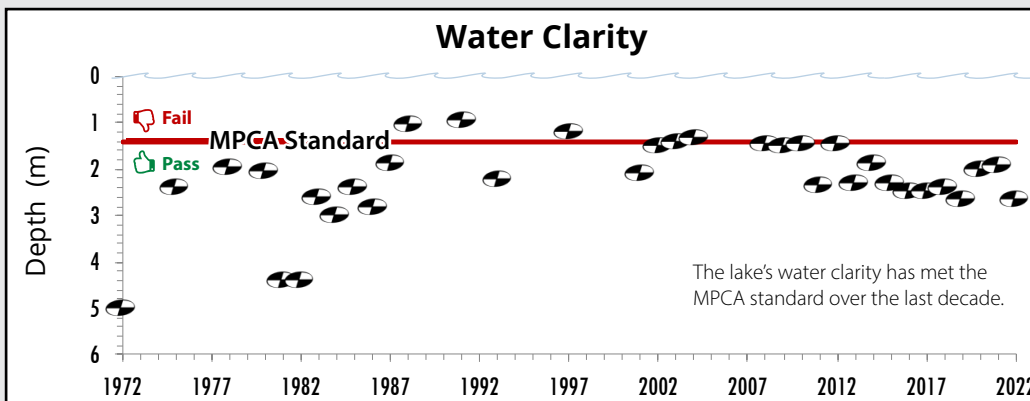
Round Lake received an alum treatment in 2012 and 2018. Alum limits the availability of phosphorus in lakes to control algae growth & improve water clarity.

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.



Secchi disk

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.



Grants for Shoreline Restoration

The watershed district offers up to **75% cost share** assistance for restoring your shoreline! Learn more: rpbcbd.org/grants



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