

Lake Ann

Located in Chanhassen, Lake Ann is at the headwaters of Riley Creek. Over the past 40 years, Lake Ann has consistently met the Minnesota Pollution Control Agency clean water standards.

From June to September every 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 is no longer visible. The data indicates the lake's health based on standards set by the Minnesota Pollution Control Agency (MPCA).

Lake Ann 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 an average water clarity of 1.4 meters (4.6 feet) or greater. See summary below. Additional details are located on the next page.

P Total Phosphorus: The lake consistently meets the MPCA deep lake standard (<0.04 mg/L). In 2023, the average was **0.022 mg/L**, which is slightly up from 2022. Ann continues to have some of the best water quality in the District.

Chlorophyll-a: The lake consistently meets the MPCA deep lake standard (<14 µg/L). In 2023, the average chlorophyll-a reading was **10.98 µg/L**. This is slightly worse than the historical average of 8.2 µg/L.

Water clarity: The lake consistently meets the MPCA deep lake standard (>1.4 meters). The average reading in 2023 was **3.0 meters**, which is better than the historical average of 2.6 meters.

Plants: Lake Ann has the highest plant diversity of all lakes in the district at 22 species. Coontail was the most common plant found at 67% of sites followed by Flatstem Pondweed at 55% of sites. White Water Lily was the most dominant floating plant at 28% frequency of occurrence. In the 2023 survey, no Eurasian Watermilfoil was sampled. However, for the first time, Brittle Naiad was at a detectable level (4% frequency of occurrence) since its discovery in the lake in 2017.

Lake & watershed characteristics

Lake size	119 acres
Average lake depth	16.8 feet
Maximum lake depth	40 feet
MPCA lake classification	Deep lake
Watershed size	257 acres
Impervious surface	2% of watershed
Impaired Waters listing	Mercury
Common fish	Bluegill, Northern Pike, Largemouth Bass, Yellow Perch, Pumpkinseed Sunfish
Invasive species	Curly-leaf Pondweed, Eurasian Watermilfoil, Common Carp, Brittle Naiad, Zebra Mussel

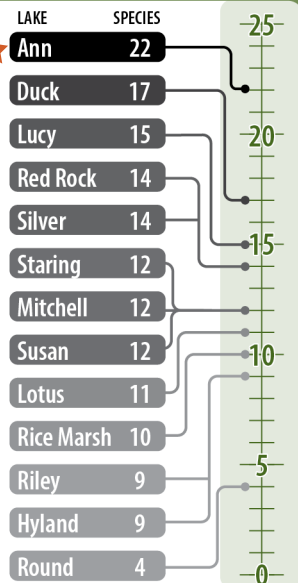


Watershed Boundary



Native Aquatic Plant Diversity

How does **Lake Ann** compare to **other lakes** in the District in **number of native plant species?**



Lake Ann Water Quality by the Numbers

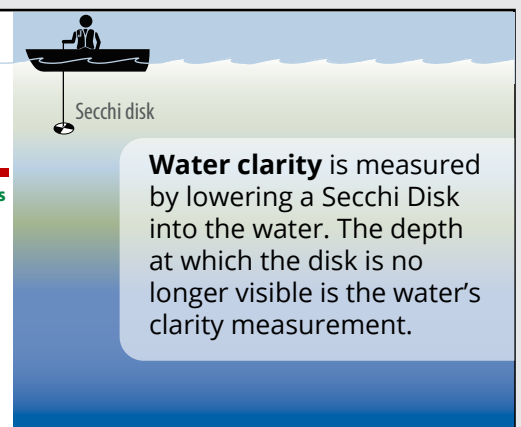
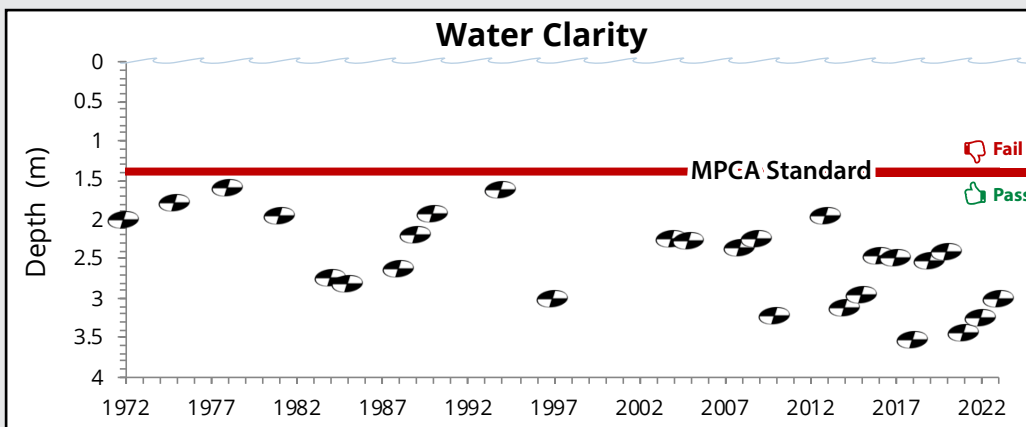
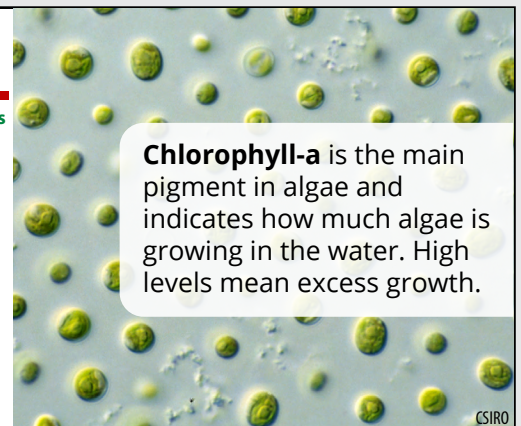
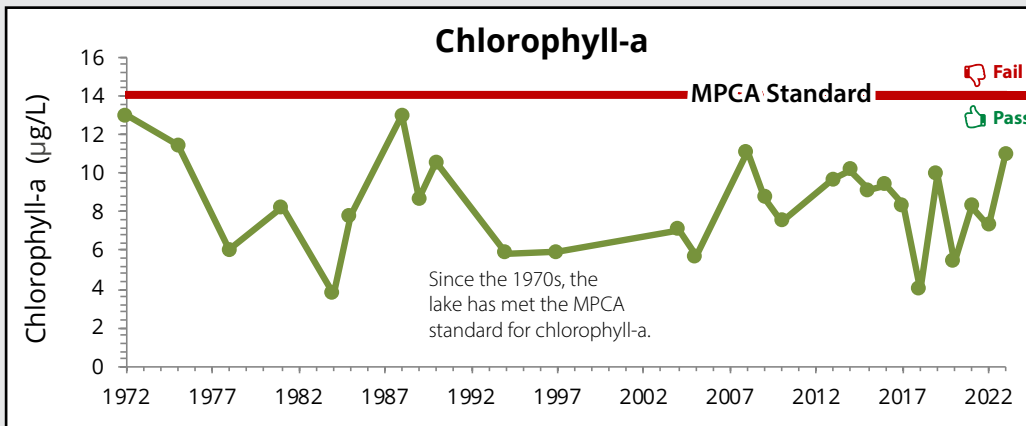
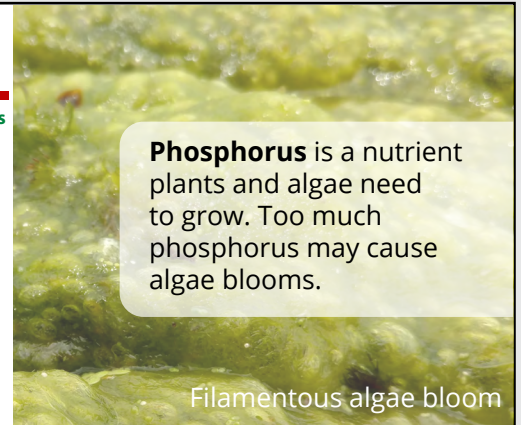
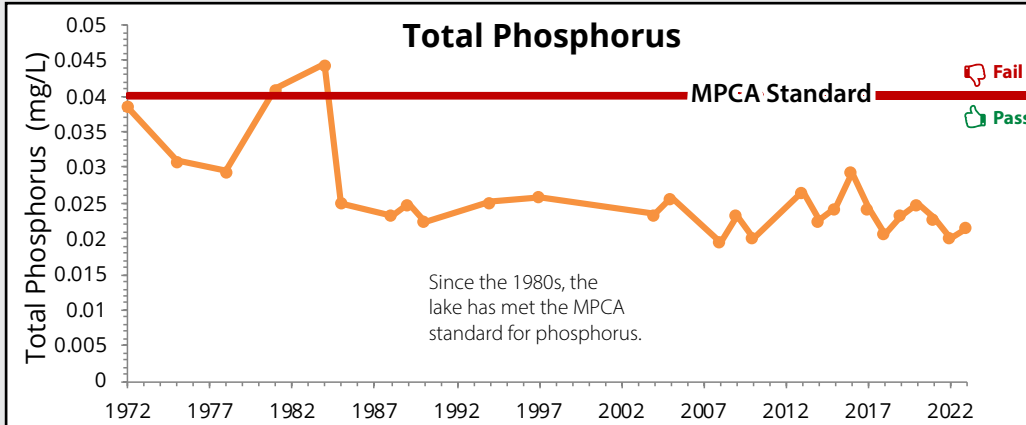
For the past 40 years, Lake Ann has consistently met the clean water standards set by the MPCA. The graphs below show water quality trends over time with the red line representing the MPCA standard for deep lakes.

Water Quality Report Card

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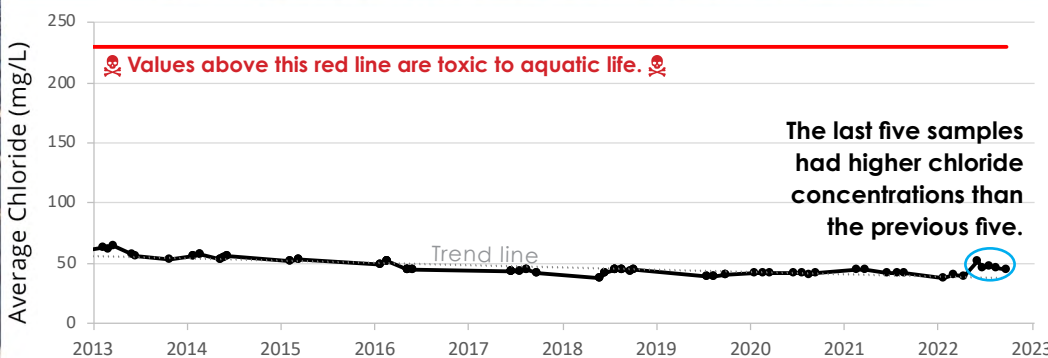
rpbcwd.org/grades

Trends Over Time: 1972-present



Chloride: A Growing Concern

Chloride permanently pollutes our lakes, ponds, and streams!



What can I use instead of winter de-icers?

All affordable & effective residential de-icing products contain chloride, even those labeled as "eco-friendly" or "pet safe."

Focus instead on reducing build up of ice on your property:

- Shovel early & often
- Prevent ice formation, avoid driving or walking on snow
- Pile snow where it won't melt & refreeze on walkways

ONE TEASPOON of SALT POLLUTES 5 GALLONS of WATER FOREVER

Learn more rpbcwd.org/salt