



Overall Health of Lone Lake

Water quality of Lone Lake is good, with average nutrient levels better than state standards. Phosphorous is the nutrient that fuels algae and plant growth. Phosphorous loading has caused some blue-green algae blooms, but algal toxins were below public health advisory levels. Latest aquatic plant surveys have shown Lone Lake is barely meeting DNR standards for plant diversity with 12 total plant species. Overall, Lone lake is a healthy, shallow lake with no water impairments listed.



*Lone Lake, Minnetonka
Photo by Janna K.*

Lone Lake Projects

To improve the health of Lone Lake, the Nine Mile Creek Watershed District installed a raingarden in the center and around the edges of the lower parking lot.

The raingardens installed at Lone Lake Park significantly reduce the amount of phosphorus and other pollutants from getting into Lone Lake. Prior to the raingarden installation, over half of the phosphorus entering Lone Lake came from stormwater running off streets and parking lots around the lake.

Raingardens also provide food and shelter for pollinators, like butterflies. The Lone Lake Park project was completed as part of the Minnetonka Lakes Water Quality Improvement Project.

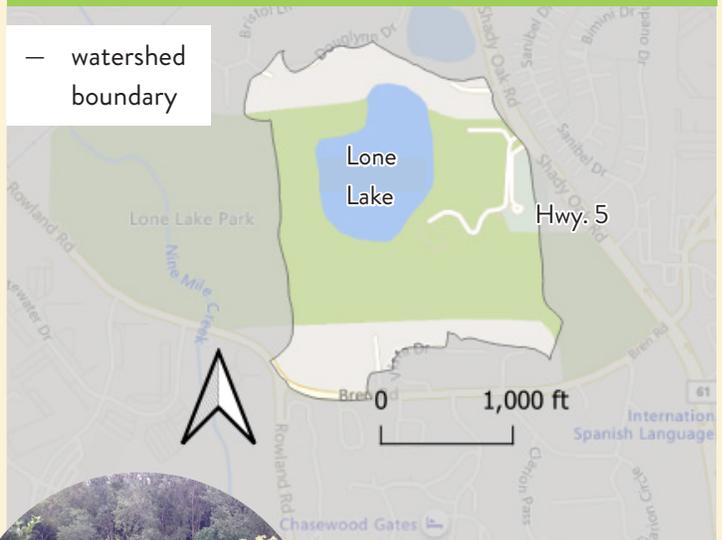


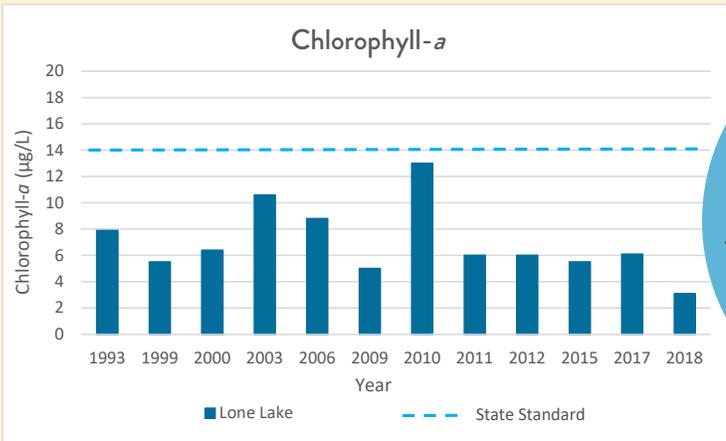
*Raingarden Installation
Lone Lake, Minnetonka*

Lake Characteristics

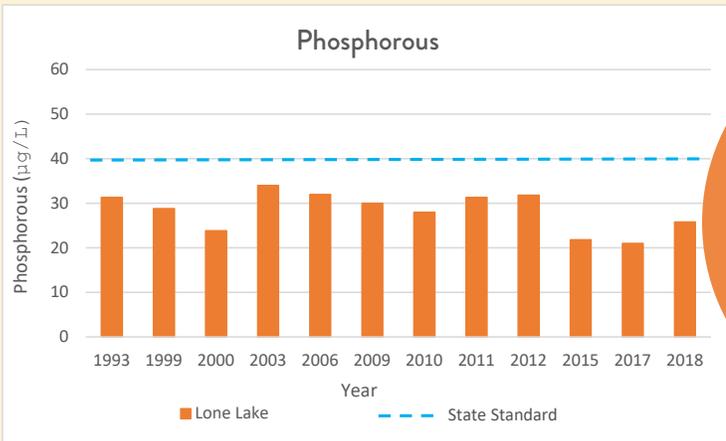
Surface Area	17 acres
Average Depth	7 feet
Max Depth	27 feet
Watershed Size	101 acres
Location	Minnetonka
Invasive Species	No invasive species known to be present

Lone Lake Watershed

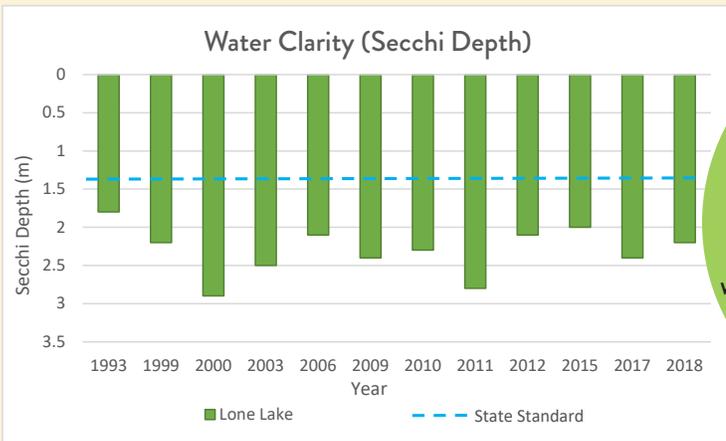




What is Chlorophyll-a ?
 Chl-a is the chemical that makes algae green. High levels of chl-a can mean that there is too much algae in the water. The lower levels of chl-a in Lone Lake indicate that water quality is good.



What is Phosphorous?
 Phosphorous is a nutrient that algae need to grow. Too much phosphorous can “over-feed” algae in a lake, which can lead to algae blooms. Lone Lake’s low phosphorous levels indicate good water quality.



What is Secchi Depth?
 Secchi Depth is a measurement of water clarity. To take the measurements, a Secchi disk is lowered into the water until it is no longer visible. These high Secchi depth values indicate good water clarity.

Recreation

Fishing Lone Lake allows public fishing.

Walking & Biking Lone lake has 1.6 miles of hiking trails and 5 miles of mountain biking trails.

Parks Lone Lake Park has picnic areas with many recreational sporting facilities.

Swimming No public swimming beach.

Boating Lone Lake has a canoe landing and dock.

Learn more:
ninemilecreek.org

How Can You Help?

- Clean watercraft and water equipment of all aquatic plants and mussels before leaving a body of water.
Why?
 It is important to clean water equipment to reduce the spread of invasive species.
- Sweep up leaves, grass clippings, and excess fertilizer from driveways and streets.
Why?
 Sweeping up yard waste will limit the amount of pollution that enters lakes through storm drains.
- Dispose of trash and pet waste appropriately.
Why?
 Picking up your trash and pet waste will help keep pollutants out of our lakes and creeks.
- Plant native plants in your garden, and water with care.
Why?
 Native plants have long roots that are more efficient at soaking up water and prevent runoff.