

GLEN LAKE

Water Quality Fact Sheet 2010-01

Quick Facts

Lake Area (acres): 98

Littoral area (acres): 89

(The littoral area is the portion of water body extending from the shoreline lakeward to the greatest depth occupied by rooted plants)

Maximum Depth (ft): 25

Water Clarity (ft): 4.6

Lake Classification: Level 1

Trophic Status: Mesotrophic (nourished)



What are the different lake classifications?

Level 1 — Whole-body contact recreational (swimming)

Level 2 — Partial-body contact recreational

Level 3 — Fishing and aesthetic

Level 4 — Runoff management

Location

The Glen Lake watershed is located in the south central portion of Minnetonka. The watershed lies just west of Highway 494 and north of Highway 62.

Lake Characteristics

The entire Glen Lake watershed (1,062 acres) is primarily urbanized. The watershed consists predominantly of low-density residential land use with some industrial and commercial areas in the southeastern portion of the watershed. There are also commercial and office land use areas just northwest of Glen Lake. Wetlands are directly southeast of Glen Lake and sporadically spaced throughout the watershed. However, it is anticipated that residential density on the northwest side of the lake will change from very low to medium density. The outlet of the lake is a culvert located in the south end of the lake. Water drains into a wetland that leads to Cardinal Creek Conservation Area.

Water Quality

Glen Lake is currently a Level 1 classification level, which support full body contact such as swimming. However, there are occasional summer algal blooms that hinder swimming possibilities. The cause of these blooms is urban stormwater runoff conveying large amounts of phosphorus to the lake (50% of total phosphorus). There is concerns that future residential re-development could result in increased phosphorus loading.

Goals

The Nine Mile Creek Watershed would like to maintain the lake to a level 1 classification.

Did you know?

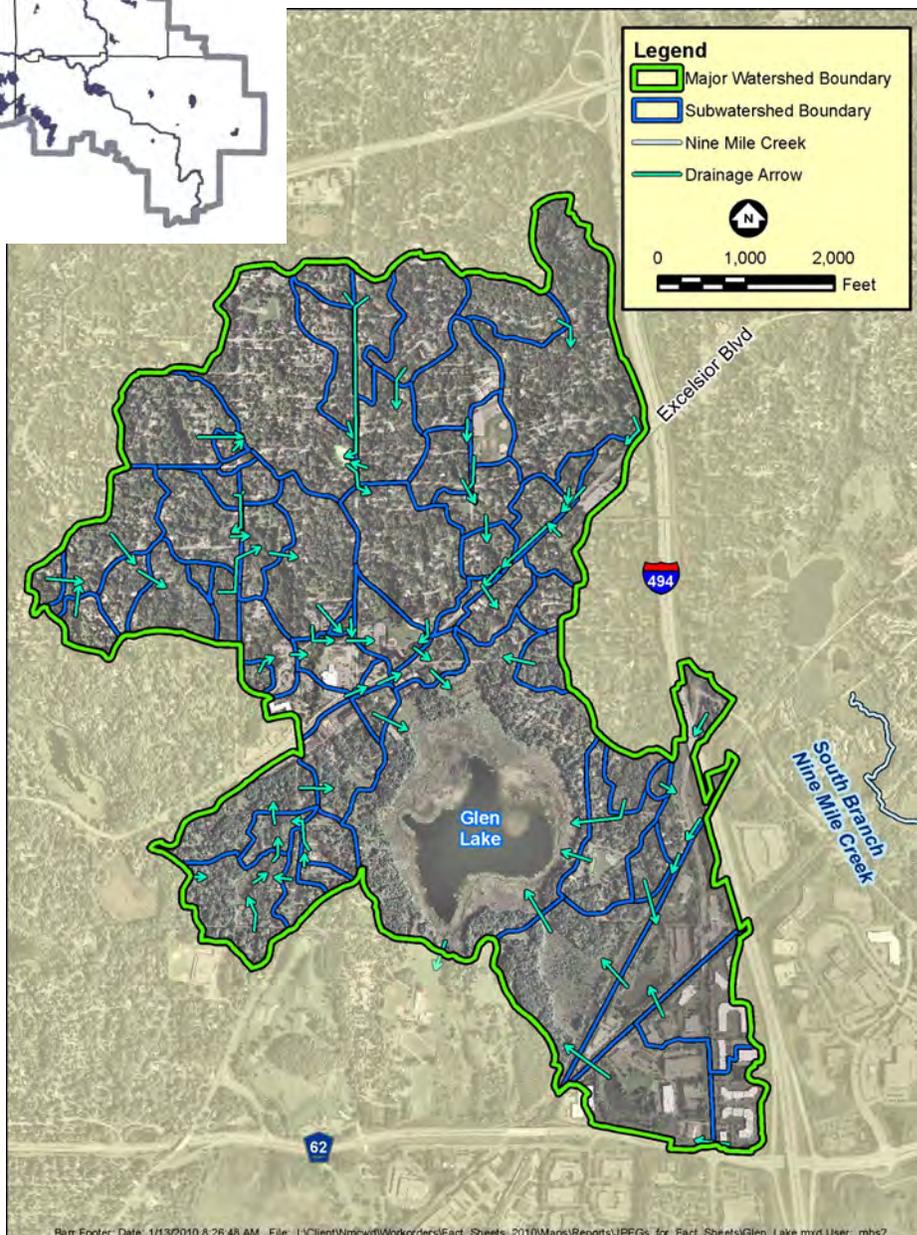
Glen Lake receives stormwater runoff from an urbanized watershed of approximately 1,062 acres. The watershed is primarily low density residential (64%) with some park and open space (3%). Open water and wetlands are 12% of the watershed. Commercial entities and roads account for 14%.

To learn more about the Nine Mile Creek Watershed District please visit us on the web www.ninemilecreek.org

Where does Glen Lake's water come from?



Glen Lake Watershed



As visibly shown on the map, a lot of surface area drains to Glen Lake. The water that falls on this subwatershed and is not infiltrated in the ground washes chemicals or pollutants left on lawns, streets, roof tops and parking lots and carries it right into Glen Lake. This makes every curb part of a shoreline! Help us protect Glen Lake by doing the below critical actions.



Leaves are a big source of phosphorus. If left to enter the storm drain, they will contribute to unhealthy algal growth in Glen Lake..

Critical Actions

The district is working with businesses to implement Best Management Practices also referred as BMPs to reduce nutrient loading into the lake. However, help is needed from local residents. Here are few tips to ensuring green lawns with blue waters:

1. Sweep up leaves, grass clippings and excess fertilizer from driveways and streets.
2. Dispose of trash appropriately.

3. Use native plants in gardens. Native plants have long roots that are more efficient in soaking up water.
4. Build a raingarden.
5. Use rain barrels to collect water.
6. Water with care—actively growing grass requires 1-inch of water per week. This equals to one hour of sprinkling once a week if no rain has fallen.

Cost-Share/Grant Opportunity

The Nine Mile Creek Watershed District offers financial assistance via a Cost-Share/Grant program for efforts that protect and improve water and natural resources within the Nine Mile Creek Watershed District. The application are available early January and are due the first Friday in April. Past funded projects include raingardens, rain barrels, green roofs, pervious pavement, native habitat restoration. For more information please visit our website at www.ninemilecreek.org.