



2022 Green Lake “What-Why-When-How” Info

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“Green Lake is a jewel in nature’s crown. Like all valuables, our lake needs to be protected. Who could care more for our lakes than the people who love them and live on them? That someone is you!”

SAVE and SHARE THE DATE: Your Green Lake Improvement District 2022 Annual Meeting
Saturday. **JUNE 25, 2022 >>> 9am-10:30am** **Wyanett Town Hall**, 34894 Nacre Street NW, Princeton, MN
Share this date with your neighbors! It is a fantastic opportunity to have a say in how your lake is managed.

GREEN LAKE FACTS AND ACTIONS BEING TAKEN

- ✓ Green Lake is an oval lake totaling almost 833 acres. The shoreline extends 4.4 miles. Our Green Lake brings enjoyment to thousands!
- ✓ It is a shallow lake with 43 percent of the total acreage 15 feet or less in depth. The maximum depth of the lake is 28 feet our Secchi data spot.



- ✓ Green Lake’s water comes from rainfall and watershed creeks/streams that flow into our basin. The main inlets are Wyanett Creek, North Brook Creek, and three other smaller creeks.
- ✓ On many many days, the water is mostly clear with a **Secchi visibility 30yr average range of 3 to 9 feet.** However, there are many nasty green days when vis is less than 2 inches! **Blue-Green Algae Alert: IF IN DOUBT, STAY OUT!**
- ✓ Green Lake bottom has legacy Glacial lake sediments that are naturally high in clay and nutrient contents even before accounting for influx from watershed.
- ✓ The wind blows a large distance across Green Lake, causing lots of suspended sediments due to bottom disturbance in shallow areas as well as causing shoreline erosion.
- ✓ Green Lake is becoming more “NUTRIENT RICH”. Nutrients going into and from internal lake loading increases “Nutrient Budget”. More nutrients, more weeds/algae!
ACTIONS: Reducing watershed nutrient flow via recent Isanti SWCD’s MPCA Watershed Focus Program Grant addressing water quality, mercury content, AIS weeds, TP Loading, and Watershed areas.

- ✓ Green Lake is eutrophic, which is caused by early season excessive growth of weeds, followed by poor water quality due to cloudy conditions resulting from algae growth. Water becomes oxygen deprived.
- ✓ Green Lake was listed as impaired in 2008 by MPCA. When using Secchi depth reading, Green Lake meets the threshold 62% of years for which data are available. **ACTIONS: GLID’s and Partner’s main objective is Getting Green Lake off MN impaired waters list!**
Program Goal: A Healthier Green Lake: less algae blooms, healthier fish community, improved recreational opportunities.
- ✓ Green Lake is currently known to be infested with curlyleaf pondweed (CLP). The lake also has congested areas of native Coontail weeds. **ACTIONS: Implementing permitted DNR best practices weed management program treating 50.5 acres to reduce the CLP weed congestion and Turion bank buildup. It is a delicate balance to reduce weed infestations for lake enjoyment of swimming, boating, plus good fishing, while reducing erosion.**
- ✓ **GLID will use EPA safe herbicide to manage THREE congestive weed types with one treatment, a more effective treatment while saving dollars. GLID appreciates close DNR partnership and permits.**





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HOMEOWNER WEED TREATMENT OPTIONS

- ✓ **ACTIONS: Green Lake home owners can help reduce lake nutrient loading by removing weeds from the lake.** They are heavy! **NOTE: One pound of phosphorus from weeds can grow 500 pounds of Algae!**
- ✓ If you are a lakeshore property owner who wants to maintain a swimming or boat-docking area, **ACTIONS:** Per DNR, **“you may cut or pull submerged vegetation using equipment that does not alter the lake bottom without a DNR permit under certain conditions:”**
 >”First, the area to be cleared must be no larger than 2,500 square feet.”
 >”Second, the cleared area must not extend more than 50 feet along the shoreline”
 >”May also include a boat channel up to 15 feet wide to open water.”
- ✓ **ACTIONS:** Lake owners **MUST HAVE a DNR permit if using herbicides or algacides** for DIY weed control.
- ✓ **Want Help? Lake Restoration (763-428-9777)** and other companies are available to help treat weeds and muck around your dock.

HOMEOWNER WATER AERATION TREATMENT

- ✓ **ACTIONS:** Fountain and water defuser for lake water movement can be used that does NOT disturb the bottom without DNR Permit. Questions? Call DNR’s Horey@612-259-5654

GLID’S GREEN LAKE MANAGEMENT PLANS

- ✓ **ACTIONS: GLID is teaming up with our Advisory Partners: Isanti Soil and Water Conservation District, Isanti Zoning, Wyanett Township and Minnesota DNR implementing plans for a better lake.** Refer to the GLID Website for Lake Management Plans, lake studies, weed surveys, and much more at www.greenlakemnid.com

BOAT INSPECTIONS AGAINST AIS

- ✓ **ACTIONS:** GLID is receiving funding support from Isanti County AIS Mgmt for summertime **6 days a week boat inspections** at our public landing. **ACTIONS: Your ‘Clean In-Clean Out’ help is needed** to educate visiting guests about boat and trailer weed-free requirements. **ACTIONS:** If bad behavior at boat landing or on lake, **call Isanti Sheriff at 763-689-2141.**

LAKE SHORELINE RESTORATIONS

- ✓ Is your lakeshore washing away or would you like help restoring it?
ACTIONS: Green Lake Shoreline Restorations continue to be a nutrient and erosion reduction focus area. GLID is offering to help Green Lake landowners restore eroding or non-buffered shorelines. GLID has limited restoration assistance funds of 25% up to \$1000 max for pre-approved paid projects! **ACTIONS: Sign/send Interest Form on GLID website.**
 Contact: Dan Howard, Phone: 763-286-1146
 Email: danhowardnow@gmail.com



GLID property owners can consider these simple ways to protect the water quality of our lake and maintain property value\$:

- ✓ **ACTIONS: Establish Shoreline Buffer Zone** (water's edge to 15-25+ ft. landward) to filter water runoff nutrients. More tips: Go to **Score Your Shore** hotlink at <https://www.greenlakemnid.com/shoreline-restorations.html>
- ✓ **ACTIONS:** Remove weeds from lake and shoreline, this reduces nutrient loading. **Free Weed Compost at Wyanett Gradershed!**
- ✓ **ACTIONS:** If you see shoreline destruction, call Isanti Zoning @ 763-689-5165 or lake damage, call DNR @ 218-834-6620

The Green Lake Improvement District (GLID) with Lake Owners and Partners are dedicated to reduce lake nutrient loading, reduce congestive weed/algae, promote lake shoreline restorations to continue preservation of safe water quality for current and future generations’ enjoyment while maintaining property value\$.