

Lake Size

232 acres

Date of Application

September 2017 and August 2019

Project Sponsor

Three Rivers Parks District

Project References

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Fish Lake, MN

Fish Lake is a 232 acre recreational lake in Maple Grove, MN with a maximum depth of 61 feet. The lake was eutrophic with summer algae blooms that resulted in odors and unsightly build-up of algae along the shorelines. Elevated phosphorus (P) levels (above Minnesota's P standard) historically drove the excessive algal growth. Fish Lake samples confirmed that P was very high in the sediments and releasing into the water column via internal loading.



2019 Alum Application at Fish Lake

HAB Aquatic Solutions applied half the total alum dose (95,000 gallons) in over 5 days in September 2017 and the remaining half dose (95,000 gallons) over a 5-day period in August 2019. The alum floc has been successfully inactivating sediment P, reducing internal loading, lowering water column P, reducing algal biomass and increasing water transparency since the first application in 2017. The figure below shows the water column improvement in terms of water column TP, chlorophyll a and Secchi depth. (Source: Three Rivers Park District)

