

Wing Lake (27-0091) Nine Mile Creek Watershed District

Wing Lake is located within the City of Minnetonka (Hennepin County). It has a surface area of 11 acres. There is little known morphological data available for the lake.

On each sampling day the lake was monitored for total phosphorus (TP), chlorophyll-a (CLA), total kjeldahl nitrogen (TKN), and secchi transparency, as well as the lake's perceived physical condition and recreational suitability. The resulting data are summarized in tables and figures on the following page.

2009 summer (May-September) data summary

<i>Parameter</i>	<i>Mean</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Grade</i>
TP ($\mu\text{g/l}$)	119.9	53.0	236.0	D
CLA ($\mu\text{g/l}$)	46.7	15.0	190.0	C
Secchi (m)	0.7	0.5	1.2	D
TKN (mg/l)	1.78	1.30	2.60	
Lake Grade				D

The lake received a lake grade of D for 2009, which is consistent with its limited historical database. Additional years of monitoring are suggested for continuing to build the water quality database so as to better understand the lake's water quality and determine potential water quality trends.

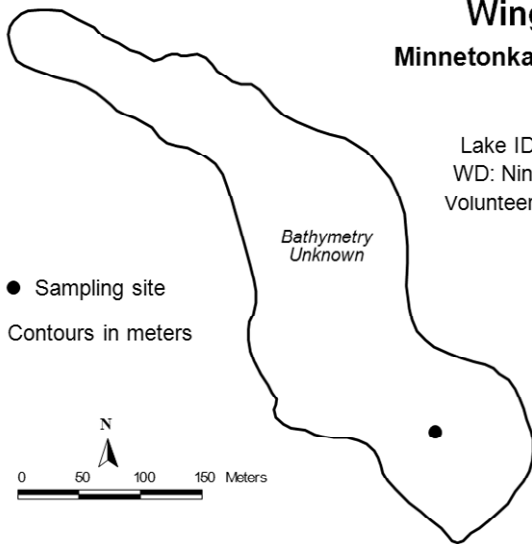
Throughout the monitoring period, the volunteer's opinions of the lake's physical condition and recreational suitability were ranked on a 1-to-5 scale. These user perception rankings are shown on the following page.

If you notice any errors in the lake's data or physical information, or are aware of any additional or missing information, please contact Brian Johnson of the Metropolitan Council at (651) 602-8743 or brian.johnson@metc.state.mn.us.

Wing Lake

Minnetonka, Hennepin Co.

Lake ID: 270091-00
 WD: Nine Mile Creek
 Volunteer: John Burton



2009 Data

DATE	Surf Tmp (°C)	Bot Tmp (°C)	Surf DO (mg/L)	Bot DO (mg/L)	CLA (µg/L)	Surf TP (µg/L)	Bot TP (µg/L)	Secchi (m)	PC	RS
5/3	17.8				15	81		0.8	2	4
5/17	18				29	130		0.6	3	4
5/28	22.8				40	109		0.5	3	4
6/13	22				17	53		1.2	3	4
6/28	24				27	80		0.9	3	5
7/13	24				21	132		0.6	4	5
8/23	23				190	236		0.6	3	5
9/6	22				53	138		0.7	3	5
9/24	22				28	120		0.7	3	5

Lake Water Quality Grades Based on Summertime Averages

Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total Phosphorus												
Chlorophyll a												
Secchi Depth												
Lake Grade												

Year	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total Phosphorus												
Chlorophyll a												
Secchi Depth												
Lake Grade												

Year	2004	2005	2006	2007	2008	2009
Total Phosphorus			D	D	D	D
Chlorophyll a		C	C	C	C	C
Secchi Depth		D	D	D	D	D
Lake Grade		D	D	D	D	D

Source: Metropolitan Council and STORET data

