



Minnesota Pollution Control Agency

520 Lafayette Road
St. Paul, MN 55155-4194

Unnamed Lake, Polk County

National Lake Assessment Project (NLAP)

Sample Date: August 8, 2007

Minnesota Lake ID: 60-0307

Area: 11 acres

Watershed Area: 16,120 acres

Ecoregion: North Central Hardwoods Forests (NCHF)

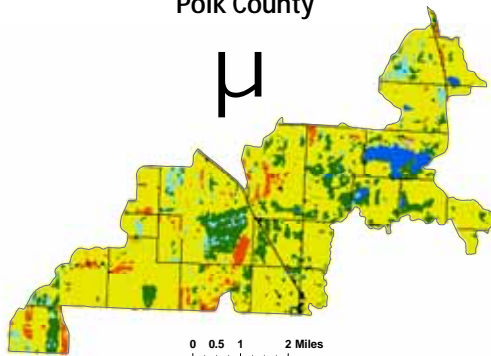
NLAP ID: 0915

Maximum Depth: 5.6 ft

Mean Depth: n/a ft

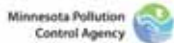


Unnamed Lake Land Use
Polk County



Legend

- Developed
- Forest
- Cultivated (Ag)
- Water
- Pasture & Open
- Wetland



Land Use	Unnamed Lake Land Use %	NCHF Typical Land Use %
Developed	4	2-9
Cultivated (Ag)	73	22-50
Pasture & Open	4	11-25
Forest	14	6-25
Water & Wetland	5	14-30
Feedlots (#)	0	

Minnesota 2000 Level 1 Landsat Landcover
Classification.img

University of Minnesota Remote & Geospatial Analysis Lab

Unnamed Lake 2007 as compared to typical range for NCHF ecoregion reference lakes. Single NLAP visit based on U.S. Environmental Protection Agency protocol as compared to typical range for summer-means.

Parameter	Unnamed Lake		NCHF
Number of reference lakes	1		43
Total Phosphorus (µg/L)	102		23 - 50
Chlorophyll-a (µg/L)	38		5 - 22
Secchi Disk (feet)	5.6		4.9 - 10.5
(meters)	1.7		(1.5 - 3.2)
Total Kjeldahl Nitrogen (mg/L)	1.4		< 0.60 - 1.2
Alkalinity (mg/L)			75 - 150
Color (Pt-Co U)	30		10 - 20
pH (SU)	6.9		8.6 - 8.8
Chloride (mg/L)	6.2		4 - 10
Total Suspended Solids (mg/L)			2 - 6
Total Suspended Inorganic Solids (mg/L)			1 - 2
Conductivity (umhos/cm)	365		300 - 400
TN:TP ratio	14:1		25:1 - 35:1
Microcystin(µg/L)	Near Shore	Index Site	<10 Low Risk
WHO risk Category*	0.2	<0.15	10-20 Moderate Risk 20- 200 High Risk

* Guidelines for safe recreational water environments (World Health Organization, 2003)

µg/L = micrograms per liter
mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

Pt-Co-U = Platinum Cobalt Units
SU = Standard Units

Mixing Status: mixed with no temperature layer (polymictic)

**Temperature and Dissolved Oxygen Profile for
Unnamed Lake (Polk Co.) August 8, 2007.
Temp. (C) and DO (mg/L)**

