



Minnesota Pollution Control Agency

520 Lafayette Road
St. Paul, MN 55155-4194

Straight Lake, Becker County

National Lake Assessment Project (NLAP)

Sample Date: July 31, 2007

Minnesota Lake ID: 03-0010

Area: 517 acres

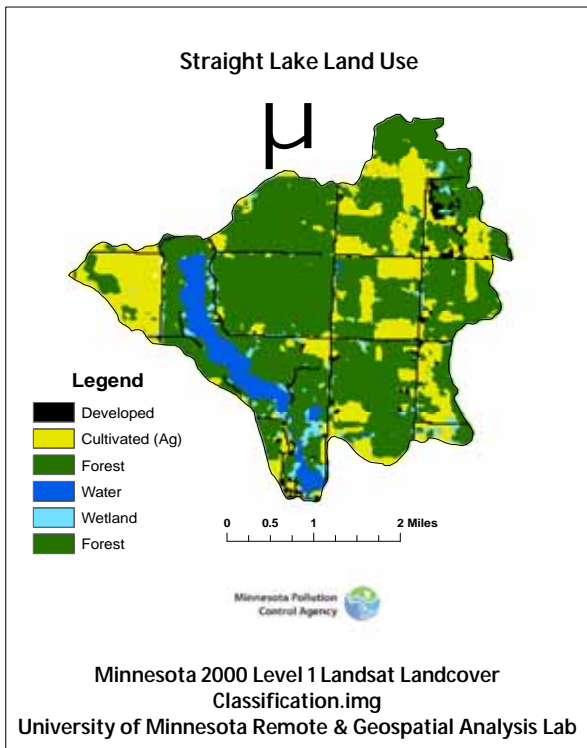
Watershed Area: 23,018 acres

Ecoregion: Northern Lakes and Forests (NLF)

NLAP ID: 0366

Maximum Depth: 63 ft

Mean Depth: 30 ft



Land Use	Straight Lake Land Use %	NLF Typical Land Use %
Developed	5	0 - 7
Cultivated (Ag)	23	<1
Pasture & Open	0	0 - 6
Forest	63	54 - 81
Water & Wetland	9	14 - 31
Feedlots (#)	0	

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

Parameter	Straight (MDH)	NLF
Total Phosphorus (µg/L)	15	14 - 27
Chlorophyll mean (µg/L)	4	4 - 10
Secchi Disk (feet)	8.2	8 - 15
(meters)	2.5	2.4 - 4.6
Total Kjeldahl Nitrogen (mg/L)	0.41	0.4 - 0.75
Alkalinity (mg/L)	150	40 - 140
Color (Pt-Co U)	5	10 - 35
pH (SU)	8.4	7.2 - 8.3
Chloride (mg/L)	6.7	0.6 - 1.2
Total Suspended Solids (mg/L)	2	<1 - 2
Total Suspended Inorganic Solids (mg/L)	1.4	<1 - 2
Conductivity (umhos/cm)	239	50 - 250
TN:TP ratio	27:1	25:1 - 35:1
Microcystin(µg/L)	Near Shore	<10 Low Risk
WHO risk Category*	Index Site	10-20 Moderate Risk
	<0.15	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: thermally stratified (dimictic)

**Temperature and Dissolved Oxygen Profiler for Straight Lake. July 31, 2007.
 Temp. (C) and DO (mg/L)**

