

Upper Myakka (Sarasota County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 27°16'26", Longitude 82°17'13"

Period of record: 1 sampling date; August 7, 2001

Surface Area (Shafer et al. 1986): 975 acres

Lake Region (Griffith et al. 1997): Southwestern Flatlands (75-36)

Geologic formation (Brooks 1981a):

The geology is dominated by phosphatic sand, silty sand, and clay of the Hawthorne Formation

Physiographic region (Brooks 1981b):

The lake lies in the Barrier Island Coastal Strip division of the Southwestern Flatwoods District

Supplemental water chemistry data

Data reported are means from 4 sampling dates:

pH	6.9	Total alkalinity (mg/L as CaCO ₃)	36.7
Conductance (µS/cm @ 25 °C)	191	Color (Pt-Co units)	149
Chloride (mg/L)	15.4	Silicon (mg/L)	2.4
Sulfate (mg/L)	53.6	Calcium (mg/L)	21.3
Magnesium (mg/L)	27.3	Sodium (mg/L)	8.8
Potassium (mg/L)	1.7	Iron (mg/L)	0.1

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 1 month sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	570	570	570
Long-term total nitrogen concentrations (µg/L)	1223	1223	1223
Long-term total chlorophyll concentrations (µg/L)	4.0	4.0	4.0
Long-term Secchi depth (ft)	1.9	1.9	1.9

2001 Florida LAKEWATCH Data

Numbers reported below are monthly averages calculated from 3 stations for total phosphorus (TP, µg/L), total nitrogen (TN, µg/L), chlorophyll (CHL, µg/L) and Secchi depth (SECCHI, ft) during 2001:

<u>Date</u>	<u>TP (µg/L)</u>	<u>TN (µg/L)</u>	<u>CHL (µg/L)</u>	<u>SECCHI (ft)</u>
Aug-07	570	1223	4.0	1.9
2001 Average	570	1223	4.0	1.9