

Water Quality Summary – Your Water Body

	<u>North End</u>	<u>South End</u>	<u>Target Range</u>
Temperature:	87.2	86.3	N/A
Transparency:	2'6"	2'6"	N/A
pH:	8.3	7.0	7.0 - 9.0
TDS:	467 ppm	667 ppm	0 – 1000 ppm
Conductivity:	912 µS	1,283 µS	0 – 1500 µS
Dissolved Oxygen:	2.5 mg/L	9.5 mg/L	6 – 12 mg/L
Alkalinity:	172.5 ppm	183.0 ppm	0 – 250 ppm
Hardness:	211.5 ppm	208.5 ppm	100 – 300 ppm
Phosphate:	10.0 ppb	15.0 ppb	0 – 100 ppb
Nitrate:	352.0 ppb	396.0 ppb	0 – 1,000 ppb
Fecal Coliforms:	None Detected	None Detected	0 – 100 CFU/100mL

CRITICAL

DANGEROUS

HEALTHY

These results show that the water at *The Ruddle* is very healthy. The results of our testing show that this aquatic environment is very suitable to support natural wildlife. Also, the lake/pond is safe for swimming, and other recreational uses. At this time there is no sign of pollution issues.

The **Total Dissolved Solids (TDS)** and **Conductivity** are slightly high. The Total Dissolved Solids is an aggregate indicator of many molecules in the water. The TDS results are not a concern, however, it indicates the presence of molecules and salts that may cause a slight odor and discoloration to the water body.

The **Phosphate** concentration are low. The low amount of phosphates in the water and the small amount of surface algae indicate that there is low amount of total phosphorus in the water. However, Nitrate and Phosphate concentrations must be monitored. Green Algae grow excessively in the presence of high Nitrate and Phosphate concentrations. If only the Nitrate concentration is high, Blue-green algae may begin to bloom. Certain blue-green algae produce toxins that may, although rarely, can be dangerous to fish, pets and people.

To prevent more Nitrates and Phosphates from accumulating in the water body, we recommend each homeowner establish a fertilizer free buffer zone from the water body edge. The buffer zone should be 10 to 20 feet wide along the entire frontage of the water body. For maximum effect this area should be a dense patch of vegetation to catch nutrients.

Water samples were taken on 8/7/2009 at 2:30 PM. Water tests were completed on 8/7/2009 at 6:45 PM. This report describes conditions at the time the samples were taken. The quality of the water was tested only to the parameters listed above.

Compiled and Certified by: _____

Date: August 8th, 2009

Lake  Test Technician

Reviewed and Approved by: _____

Date: August 9th, 2009

Aqua-Weed Control Inc.