



# 2021 WQ Sampling Results

SHORELINE Samples	<u>E.coli Levels</u>				<u>Microcystin Levels</u>			
	Safe Level at or below 235 #/100 mL				Safe Level at or below 8 micrograms/Liter			
Lake Poinsett Sites	June	July	Aug	Sept	June	July	Aug	Sept
Rec. Area Swim Beach - A	4.0	<1	<1	330	<0.1	0.8	3.2	16.9
Sorenson - B	19.8	2	<1	1.0	<0.1	1.3	3.9	0.8
Saaranen - C	3.1	<1	6.3	5.1	<0.1	3.7	9.9	0.6
Prestrude - D	5.099	1	6.3	35.9	<0.1	0.5	6.2	1.9

MID-LAKE Samples		<u>Nutrient Levels (mg/L)</u>				<u>CHL-a</u>
						safe level 37.8 ppb
LAKE POINSETT	Secchi-Water Clarity	Ammonia	Nitrite Nitrate	TKN-Nitrogen	Phosphorous	CHL-a
JUNE.	0.84 meters	0.13	<0.02	1.02	0.1769	-
JULY.	1.34 meters	<0.05	<0.2	1.29	0.1980	56.07
AUGUST.	.508 meters	<.05	<0.2	1.76	0.277	69.68

## Water Quality Terms

**Phosphorous** – is found in lawn and crop fertilizers, sewage, and soil. It fuels harmful algae growth. (TP = Total Phosphorous)

**Nitrogen** – is found in fertilizers and wastes, causes algae blooms. (TKN = Total Kjeldah Nitrogen)

**Chlorophyll-a** – The test reveals how much algae is in lake water. (CHL-a). Safe level is at or below 37.8 ppb.

**Microcystin** – are toxins found in harmful blue-green algae blooms.

**E.coli** – bacteria in animal or human waste. Sources: untreated sewage, failing septic systems, livestock, pets, and wildlife waste.

**Secchi Depth** – measures the lake's water's clarity.

**UNITS OF MEASUREMENT:** ug/L – Micrograms per liter

mg/L – Milligrams per liter

ppb – parts per billion