

Susies Lake

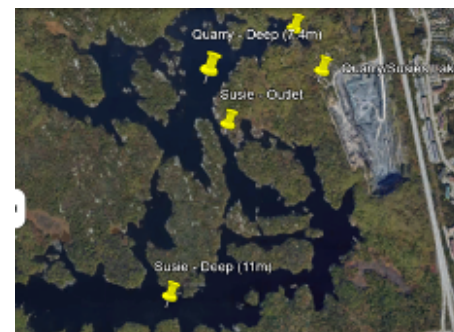
(Approximate maximum depth: 11.8 m)

BLUE MOUNTAIN – BIRCH COVE LAKES WILDERNESS AREA,
HALIFAX REGIONAL MUNICIPALITY, NOVA SCOTIA

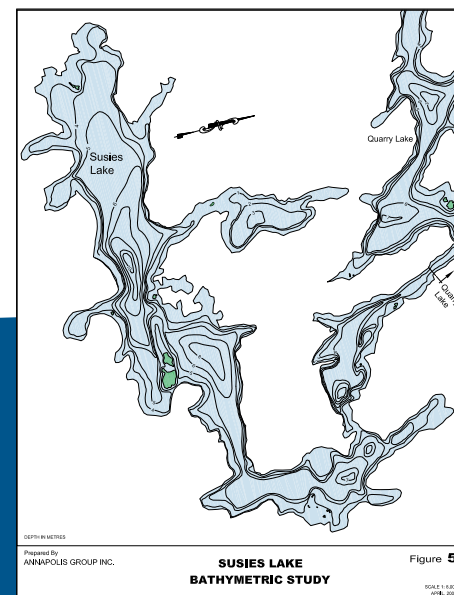
Parameter	Spring 22	Summer 22	Spring 23	Summer 23	Spring 24	Summer 24
Team	Consultant	Consultant	Consultant	Consultant	Consultant	Consultant
Date	May 16	August 25	May 4	August 16	April 29	August 14
Secchi Depth	2.8 m	3.7 m	1.6 m	1.3 m	2.0 m	3.0 m
Surface pH	5.31	5.74	4.88	5.26	4.66	5.45
Surface SpC	0.2815 ms/cm	0.2623 ms/cm	0.2277 ms/cm	0.1015 ms/cm	0.1188 ms/cm	0.1660 ms/cm
Surface Temp	15.5 °C	23.8 °C	9.7 °C	21.8 °C	11.9 °C	23.4 °C
Surface DO	10.14 mg/L	8.39 mg/L	11.0 mg/L	7.50 mg/L	10.62 mg/L	8.14 mg/L
Summer Stratified?		Yes		Yes		Yes
Thermocline Depth (from lake surface)		4.5 m		4 m		4 m
Anoxic Layer Thickness (from lakebed at deepest location)		6.3 m (53%)		4.8 m (41%)		2.8 m (24%)
Strength of evidence for Internal Loading		Strong		Moderate		Very Strong
Estimated Trophic Status (based on summer Chl- α)		Oligotrophic		Oligotrophic		Oligotrophic
Deepwater Chloride	67 mg/L	74 mg/L	58 mg/L	51 mg/L	26 mg/L	32 mg/L
E. coli Outlet/Surface (CFU/100ml)	ND / ND	4 / ND	4 / 2	4 / 6	Not Collected	38 / ND

*ND = 'non-detect' for E.coli, indicating less than 2 CFU / 100 ml

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Satellite Imagery Map of Susies Lake w/ Sampling Locations



Bathymetry Map of Susies Lake