

Penhorn Lake

(Approximate maximum depth: 9.2 m)

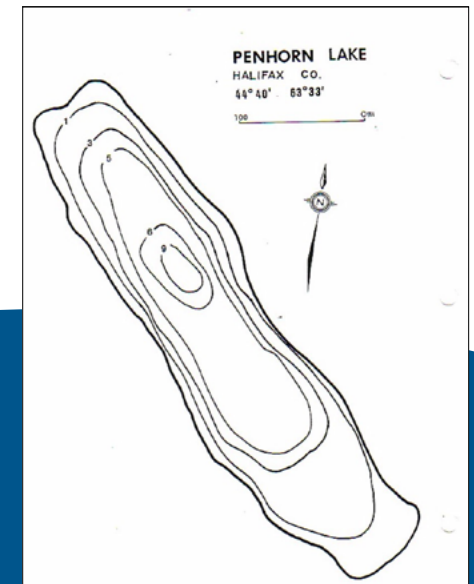
DARTMOUTH, HALIFAX REGIONAL MUNICIPALITY, NOVA SCOTIA

Parameter	Spring 22	Summer 22	Spring 23	Summer 23	Spring 24	Summer 24
Team	Consultant	Consultant	Collaborative	Volunteer	Volunteer	Volunteer
Date	April 26	August 12	April 18	August 21	April 21	August 16
Secchi Depth	3.5 m	2.3 m	2.8 m	1.6 m	2.3 m	2.5 m
Surface pH	8.06	7.64	7.36	7.75	7.73	7.75
Surface SpC	0.3691 ms/cm	0.5874 ms/cm	0.5514 ms/cm	0.3905 ms/cm	0.4537 ms/cm	0.5200 ms/cm
Surface Temp	10.5 °C	24.2 °C	10.0 °C	22.4 °C	11.1 °C	23.8 °C
Surface DO	9.87 mg/L	7.58 mg/L	11.21 mg/L	7.0 mg/L	11.67 mg/L	6.1 mg/L
Summer Stratified?		Yes		Yes		Yes
Thermocline Depth (from lake surface)		4 m		3.5 m		4 m
Anoxic Layer Thickness (from lakebed at deepest location)		4.7 m (51%)		5.7 m (62%)		4.2 m (46%)
Strength of evidence for Internal Loading		Very Strong		Strong		Weak
Estimated Trophic Status (based on summer Chl- α)		Mesotrophic		Mesoeutrophic		Mesoeutrophic
Deepwater Chloride	140 mg/L	130 mg/L	130 mg/L	130 mg/L	110 mg/L	110 mg/L
E. coli Outlet/Surface (CFU/100ml)	1 / 1	40 / 16	6 / 6	18 / 14	Not Collected	40 / 18

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



Satellite Imagery Map of Penhorn Lake w/ Sampling Locations



Bathymetry Map of Penhorn Lake

halifax.ca/lakewatchers

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Climate
Together

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