

Lake Charles

(Approximate maximum depth: 25.7 m)

PORTOBELLO, HALIFAX REGIONAL MUNICIPALITY, NOVA SCOTIA

Parameter	Spring 22	Summer 22	Spring 23	Summer 23	Spring 24	Summer 24
Team	Consultant	Consultant	Consultant	Collaborative	Volunteer	Volunteer
Date	April 29	August 16	April 18	August 10	May 15	August 26
Secchi Depth	1.9 m	2.5 m	1.8 m	1.7 m	2.0 m	1.7 m
Surface pH	8.32	7.51	7.50	7.22	7.83	8.14
Surface SpC	0.2964 ms/cm	0.3010 ms/cm	0.2900 ms/cm	0.2294 ms/cm	0.2388 ms/cm	0.2737 ms/cm
Surface Temp	8.4 °C	24.5 °C	8.1 °C	21.8 °C	13.6 °C	24.0 °C
Surface DO	11.89 mg/L	8.29 mg/L	12.04 mg/L	7.95 mg/L	11.16 mg/L	7.80 mg/L
Summer Stratified?		Yes		Yes		Yes
Thermocline Depth (from lake surface)		7 m		6.5 m		7 m
Anoxic Layer Thickness (from lakebed at deepest location)		1.2 m (5%)		n/a		n/a
Strength of evidence for Internal Loading		None		None		None
Estimated Trophic Status (based on summer Chl- α)		Oligotrophic		Mesotrophic		Mesoeutrophic
Deepwater Chloride	64 mg/L	66 mg/L	60 mg/L	58 mg/L	54 mg/L	57 mg/L
E. coli Outlet/Surface (CFU/100ml)	ND / ND	24 / 4	ND / ND	58 / 32	Not Collected	6 / 0

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

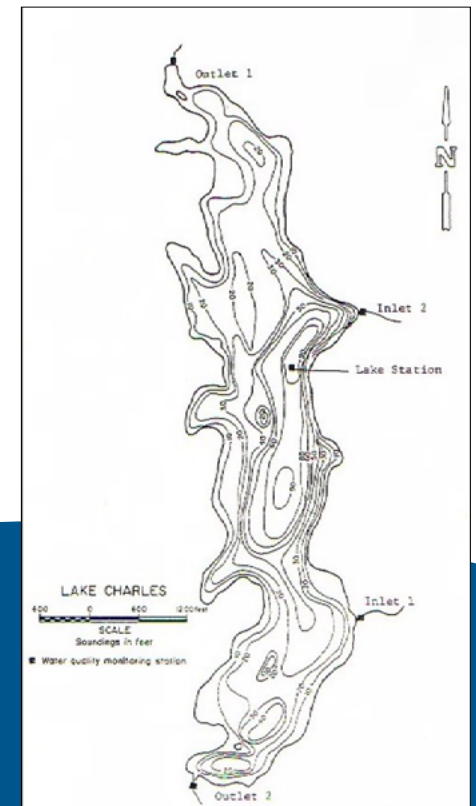
halifax.ca/lakewatchers

HalifACT Acting on
Climate
Together

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Satellite Imagery Map of Lake Charles w/ Sampling Locations



Bathymetry Map of Lake Charles