

Barrett Lake

(Approximate maximum depth: 6.3 m)

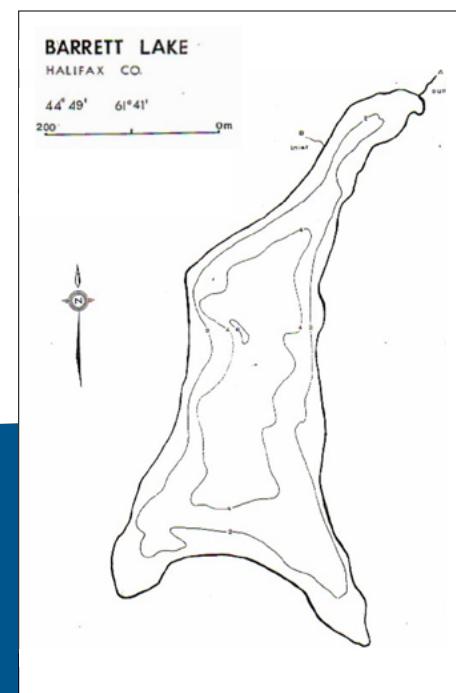
BEAVER BANK, HALIFAX REGIONAL MUNICIPALITY, NOVA SCOTIA

| Parameter | Spring 22 | Summer 22 | Spring 23 | Summer 23 | Spring 24 | Summer 24 |
|---|--------------|--------------|--------------|--------------|---------------|--------------|
| Team | Consultant | Consultant | Consultant | Volunteer | Volunteer | Volunteer |
| Date | May 5 | August 24 | April 25 | August 16 | May 13 | September 6 |
| Secchi Depth | 3.4 m | 5.1 m | 3.8 m | 2.1 m | 2.3 m | 5.0 m |
| Surface pH | 6.93 | 7.18 | 6.93 | 7.08 | 7.42 | 7.17 |
| Surface SpC | 0.1958 ms/cm | 0.3028 ms/cm | 0.2527 ms/cm | 0.1341 ms/cm | 0.1855 ms/cm | 0.2134 ms/cm |
| Surface Temp | 10.8 °C | 24.2 °C | 12.0 °C | 22.4 °C | 12.1 °C | 21.1 °C |
| Surface DO | 14.47 mg/L | 8.23 mg/L | 10.94 mg/L | 7.56 mg/L | 10.25 mg/L | 6.35 mg/L |
| Summer Stratified? | | Yes | | Yes | | No |
| Thermocline Depth (from lake surface) | | 5.5 m | | 3.5 m | | n/a |
| Anoxic Layer Thickness (from lakebed at deepest location) | | n/a | | 2.8 m (44%) | | n/a |
| Strength of evidence for Internal Loading | | Moderate | | Weak | | Very Strong |
| Estimated Trophic Status (based on summer Chl- α) | | Mesotrophic | | Mesotrophic | | Mesotrophic |
| Deepwater Chloride | 71 mg/L | 73 mg/L | 58 mg/L | 51 mg/L | 44 mg/L | 45 mg/L |
| E. coli Outlet/Surface (CFU/100ml) | ND / 2 | 42 / 2 | 2 / ND | 16 / 4 | Not Collected | 8 / ND |

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



Satellite Imagery Map of Barrett Lake w/ Sampling Locations



Bathymetry Map of Barrett Lake

halifax.ca/lakewatchers

HalifACT Acting on
Climate
Together

LakeWatchers