

# Big Cranberry Lake

(Approximate maximum depth: 4.0 m)

BIRCH COVE LAKES WILDERNESS AREA, HALIFAX REGIONAL MUNICIPALITY, NOVA SCOTIA

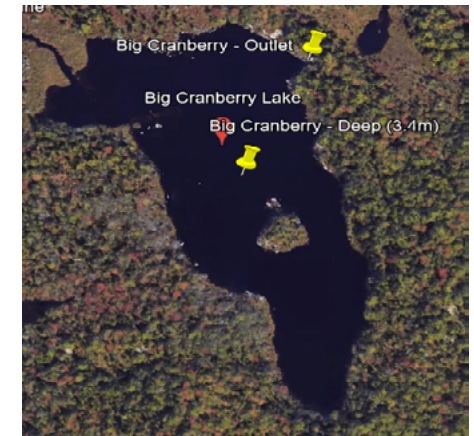
| Parameter                                                 | Spring 22    | Summer 22    | Spring 23    | Summer 23     | Spring 24     | Summer 24    |
|-----------------------------------------------------------|--------------|--------------|--------------|---------------|---------------|--------------|
| Team                                                      | Consultant   | Consultant   | Consultant   | Consultant    | Consultant    | Consultant   |
| Date                                                      | May 11       | August 22    | May 4        | August 16     | April 29      | August 14    |
| Secchi Depth                                              | 1.7 m        | 0.9 m        | 1.3 m        | 0.8 m         | 1.6 m         | 1.7 m        |
| Surface pH                                                | 4.98         | 6.00         | 4.41         | 4.55          | 4.46          | 4.06         |
| Surface SpC                                               | 0.0259 ms/cm | 0.0263 ms/cm | 0.0278 ms/cm | 0.0247 ms/cm  | 0.0280 ms/cm  | 0.0280 ms/cm |
| Surface Temp                                              | 13.6 °C      | 24.0 °C      | 9.2 °C       | 21.5 °C       | 12.6 °C       | 23.1 °C      |
| Surface DO                                                | 10.44 mg/L   | 8.01 mg/L    | 10.13 mg/L   | 6.36 mg/L     | 10.05 mg/L    | 7.80 mg/L    |
| Summer Stratified?                                        |              | Yes          |              | Yes           |               | Yes          |
| Thermocline Depth (from lake surface)                     |              | 1.5 m        |              | 1.5 m         |               | 1.5 m        |
| Anoxic Layer Thickness (from lakebed at deepest location) |              | 1 m (25%)    |              | 2 m (50%)     |               | 1 m (25%)    |
| Strength of evidence for Internal Loading                 |              | None         |              | Weak          |               | Moderate     |
| Estimated Trophic Status (based on summer Chl- $\alpha$ ) |              | Mesotrophic  |              | Mesoeutrophic |               | Mesotrophic  |
| Deepwater Chloride                                        | 3.5 mg/L     | 4.5 mg/L     | 3.8 mg/L     | 37 mg/L       | 3.6 mg/L      | 4.0 mg/L     |
| E. coli Outlet/Surface (CFU/100ml)                        | ND / ND      | ND / 2       | 2 / ND       | 12 / 10       | Not Collected | ND / 2       |

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

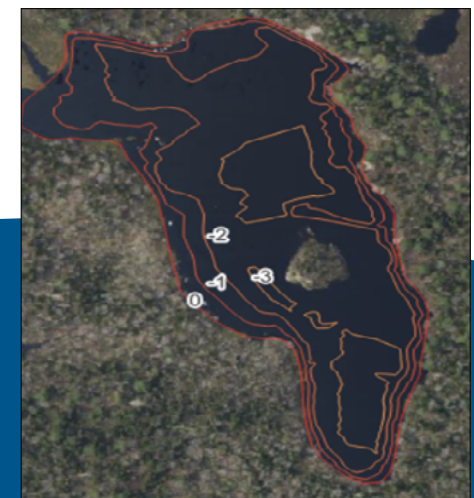
[halifax.ca/lakewatchers](http://halifax.ca/lakewatchers)

**HalifACT** Acting on  
Climate  
Together

**LakeWatchers**



Satellite Imagery Map of Big Cranberry Lake w/ Sampling Locations



Bathymetry Map of Big Cranberry Lake