**E. Coli counts for First Lake 2023**

You will find below the results for E. Coli bacteria testing in the lake or at specific storm drains. This will be repeated in 2024 after heavy rainfall events in spring, summer, and fall.

![A map of a lake with a lot of land

Description automatically generated with medium confidence]()

Table 1. This shows the **E. coli in the lake water** itself at various locations around the lake. The Canadian Guidelines for Recreational Water Quality is for less than 400 MPN (Most probable number) or 400 CFU (Colony forming units) per 100mL. These samples were taken at the same time as monthly water testing and not necessarily after a heavy rain.

Table 1. E. Coli counts in First Lake Water in MPN/100mL or CFU/100 mL\*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Month | April 25, 2023 | June 30, 2023 | July 12, 2023 | August22,2023 | September 24, 2023 | October 29, 2023 |
| Deep Station Lakewatchers | ND |  |  | 6.0 |  |  |
| Outlet (Suckerbrook)  Lakewatchers | ND | 30 | 176 | 6  16 | 6 | 12 |
| Glendale stormwater outfall |  | 27 | 1034 | 8 | 4 | 4 |
| Inlet (brook) ) |  | 46 | 1373 | 472 | 58 | 774 |
| Inlet (inner) |  | 2599 | ≥4838 | 775 | 37 | 356 |
| Kinsmen Beach |  | 523 | 2240 | 21 | 6 | 4 |

A satellite image of a lake

Description automatically generated

Table 2. This shows E. coli levels taken directly from the water in the storm drains and downstream of the pumping station on Kingfisher Way. Note the value includes all sources of E. Coli including bird, dog, and human. These levels will appear much higher than those in the lake as the E. coli will be diluted in once they reach the lake waters. All samples were taken after a heavy rain.

Table 2. E. Coli Stormwater outfalls CFU/100mL

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Month | August 18,  2022 | September27, 2022 | August 30,  2023 | October 22,  2023 |
| FLN-8 | 515 | 10,589 | 10,000 | ND\* |
| FLW-1 | 26,877 | 2,500 | 12,000 | 4,000 |
| FLW-2 | 9,218 | 1,715 | 9,000 | 1000 |
| FLW-3 | 20,000 | ≥25,000 | 7,000 | 6000 |
| FLW-8 | 3,498 | 9,177 | 9,000 | 1000 |
| FLS-3 | 265 | ≥25,000 | 8,000 | 5000 |
| Inlet (Pumping) | 400 | 500 | 13,000 | 1000 |

\*Result could not be interpreted as there was very little flow inside the storm drain and water was at the same level as the water in the ditch.