

Metadata for: Lake St. Clair Water Quality

This table provides essential information about the program data.

Title	Lake St. Clair Water Quality
Alternative Title	n/a
Description	<p>The objectives of Lake St. Clair Water Quality monitoring were to:</p> <ul style="list-style-type: none"> • Assess the range of water quality conditions in the Lake St. Clair nearshore, with focus on Thames River discharge area • Assess the extent, occurrence, magnitude and frequency of potential HABs in Lake St. Clair and Thames River • Explore drivers and causal linkages underlying water quality patterns and cyanobacterial blooms in Lake St. Clair and Thames River • Quantify the role of Thames River discharges on water quality conditions of Lake St. Clair and relative contributions of nutrients and materials to Detroit River and Lake Erie <p>Dataset includes surveys throughout the ice-free season (May/June to October) from 2016 to 2019 conducted by Ontario Ministry of the Environment, Conservation and Parks (MECP) staff. Work was conducted in collaboration and partnership with Environment and Climate Change Canada (ECCC), the Great Lakes Institute of Ecosystem Research (GLIER, University of Windsor), Lower Thames Valley Conservation Authority (LVTCA) and the National Oceanic and Atmospheric Administration (NOAA). During each survey, surface lake and river water quality samples were collected and analyzed for nutrients and related biological parameters, including:</p> <ul style="list-style-type: none"> • Phosphorus • Nitrogen • Suspended solids • Chlorophyll • Bacteria • Algal toxins Lake St. Clair water samples were collected from MECP monitoring vessels within key nearshore zones and along river continuums, generally in concurrence with on-board sensor-based water quality measurements.
Status	Completed
Frequency of Updates	As Required
Contact	<p>Name: Ryan Sorichetti Voice: 647-274-1839 Email: ryan.sorichetti@ontario.ca Organisation: Ontario Ministry of the Environment, Conservation and Parks Position: Environmental Scientist, Great Lakes Role: Custodian</p>
Cited Responsible Parties	<p>Name: Ryan Sorichetti Voice: 647-274-1839 Email: ryan.sorichetti@ontario.ca Organisation: Ontario Ministry of the Environment, Conservation and Parks Position: Environmental Scientist, Great Lakes Role: Custodian</p>
Keywords	Lake St. Clair, Thames River, Detroit River, Lake Erie, Cyanobacteria, Cyanotoxins, Harmful Algal Blooms, Water Chemistry, Phosphorus, Nutrients, Eutrophication
Tags	Great Lakes, Water Quality, Nearshore, Algae, Monitoring

Use Limitations	The results are applicable only to the date/time and stations as indicated. !
Legal Constraints	See the Open Government Licence - Ontario
Geographic Bounds	North bound: 42.50 South bound: 42.25 West bound: -81.15 East bound: -83.15
Supplemental Information	n/a
Date Stamp	March 8, 2023

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