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GREAT LAKES NEARSHORE - WATER CHEMISTRY

No preview available

Identification info

Title: Great Lakes Nearshore - Water Chemistry

Date: 2014-04-29

Date type: **Revision**: Date identifies when the resource was examined or re-examined and improved or amended

Cited responsible party

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Abstract

The objectives of the Index station network are to identify temporal trends in water quality in the nearshore of the Great Lakes, to use the information in identifying lake-wide or regional changes in environmental conditions, and to establish sites removed from major point-source influences in each of the Great lakes such that the data collected at the sites may be used as a reference when assessing environmental conditions at physically similar sites.

Information on the status and trends of environmental conditions are essential for the management of water quality on local to regional scales. The success of, the need for refinement of, or the continued need for management programs cannot be adequately judged without feedback derived from the appropriate monitoring. Through-time monitoring allows us to identify the onset of anomalous patterns or document changing conditions due to stressors in the environment. An index reference station approach enables us to identify predominating stressors and their potential impacts in areas of the Great Lakes.

An index station is a location which is likely to be similar to any other of a number of locations with common features whereas a reference station is a location which is arbitrarily selected because of some special feature and or where there is a natural integration of the stressors from a larger area such as delta zones of rivers, depositional zones of embayments, and areas where prevailing water circulation patterns focus stressors. Surveys are typically collected in one of the Great Lakes basins (including connecting channels) in each year of a 3-6 year cycle. Approximately 10-18 stations are surveyed annually. Sampling occurs approximately every three years in Lake Ontario and Lake Erie and every six years in Lake Superior and Lake Huron. The shorter sampling interval for the lower lakes reflects the higher level of anthropogenic stress on the lower lakes compared with the upper lakes. The sampling protocols employ standard MOE methodology, thereby permitting comparisons with historical and ongoing data collections elsewhere in the Ministry.

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Lab Codes used in the data are identified at:
http://files.ontariogovernment.ca/moe_mapping/downloads/metadata/Lab_Codes.html

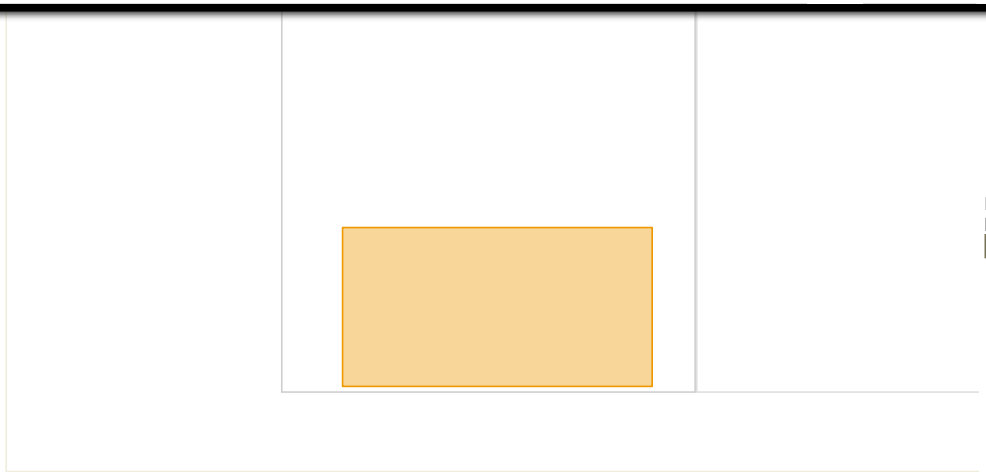
Purpose: The information collected in this project is primarily for input into Great Lakes management programs for the purposes of assessing progress in meeting program objectives and to assess the success of programs designed to restore or protect environmental quality in the Great Lakes. To the extent that the monitoring identifies adverse changes in environmental conditions, the information may be used to respond to changing conditions which may include the initiation of cause-effects research or provide supporting information for the development of remedial actions.

Status: **On going**: Data is continually being updated

Language: English

Extent

Geographic bounding box



Supplemental Information

DATA AVAILABILITY:

**********ONTARIO OPEN DATA CATALOGUE - ONESITE**********

Time Period: 2000-2007, 2009-2015

http://www.ontario.ca/data/water-chemistry-great-lakes-nearshore-areas

********** MOECC GIS Portal **********

Time Period: 2007

********** OPEN Portal **********

Time Period: 2007

http://www.moegisportal.ca

Metadata constraints

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Metadata

File identifier	afd77bb9-4135-4ca0-a137-0b2935f38793
Metadata language	English (Other language: French)
Character set	**UTF8**: 8-bit variable size UCS Transfer Format, based on ISO/IEC 10646
Hierarchy level	**Dataset**: Information applies to the dataset
Date stamp	2016-10-27T17:57:14
Metadata standard name	North American Profile of ISO 19115 Geographic Information Metadata
Metadata standard version	Government of Ontario(GO)-ITS 72 - Version 2

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