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## GREAT LAKES INTAKE PROGRAM (GLIP): GREAT LAKES AND LAKE SIMCOE WATER CHEMISTRY AND CHLOROPHYLL DATA SINCE 1976



No preview available

### Identification info

Title GREAT LAKES INTAKE PROGRAM (GLIP): GREAT LAKES AND LAKE SIMCOE WATER CHEMISTRY AND CHLOROPHYLL DATA SINCE 1976

Date type **Creation:** Date identifies when the resource was brought into existence

Date type **Publication:** Date identifies when the resource was issued

### Cited responsible party

Individual name	Dr. Michelle Palmer	Voice	(416) 327-2881
Organisation name	Ontario Ministry of the Environment	Electronic mail address	<a href="mailto:michelle.palmer@ontario.ca">michelle.palmer@ontario.ca</a>
Position name	Nutrient and Algal Monitoring Scientist		
Role	<b>Principal investigator:</b> Key party responsible for gathering information and conducting research		

### Abstract 1. Program Description

The Great Lakes Intake Program (GLIP) monitors nearshore water quality in the Great Lakes, St. Lawrence River and Lake Simcoe. GLIP is a 50-year partnership between the Ministry of the Environment and municipal water treatment plants to provide high frequency monitoring of source water in the Great Lakes Basin. Untreated water samples are collected weekly or bi-weekly, all year-round at water treatment plant intakes. Monitoring of planktonic algae was initiated in the 1960s; chlorophyll and nutrients were added to the program in the 1970s.

GLIP monitoring addresses key environmental priorities and supports informed decision-making to restore, protect and conserve the Great Lakes and Lake Simcoe. Uses of program data include assessing the effectiveness of broadscale pollution control measures, tracking long-term trends in source water quality, and monitoring the cumulative effects of climate change, land use, invasive species and other factors that impact nearshore water quality.

### 2. Data Description

The dataset includes water chemistry and chlorophyll data for 18 locations in the Great Lakes-St. Lawrence River and 4 locations in Lake Simcoe. Information on the sampling locations and the individual intake pipes from which samples are collected is provided in the Open Data files.

The dataset starts between 1976 and 1985, depending on when chlorophyll and nutrient monitoring began at individual intakes. Water samples are collected by water treatment plant staff and analyzed by the Ministry of the Environment using standard analytical procedures. The data provided are raw data that have not been edited (e.g., to exclude outliers or adjust values that are below minimum detection limits). Data are updated on a yearly basis.

### Parameter Notes

a) Chlorophyll-a: Pre-1985 values in the dataset have been increased by 35% to account for a lab methodology change from cellulose nitrate filters and glass fiber filtration to nylon filters, which increased CHLRAT yields by 35% (Nicholls and Hopkins. 1993. Journal of Great Lakes Research, 19:637-647).

b) Ammonia+Ammonium, Nitrite, Nitrate, and Nitrate+Nitrite: Early lab analysis included filtering of the sample as indicated by the F in the TEST\_NAME; recent samples are not filtered as indicated by the U in the TEST\_NAME.

c) Nitrate+Nitrite: Prior to January 1993, NNOTFR values in the dataset for the Great Lakes sites were calculated by adding NNO2FR and NNO3FR. NNOTFR (or NNOTUR) values for the Lake Simcoe sites were always measured in the lab and were not calculated.

d) Nitrate: Beginning in May 1984 for the Lake Simcoe sites and in January 1993 for the Great Lakes sites, NNO3FR (or NNO3UR) was no longer measured in the lab; post-1983/1992 values can be calculated by subtracting NNO2FR (or NNO2UR) from NNOTFR or (NNOTUR).

e) VALUE\_QUALIFIERS (e.g., codes indicating when measured values were at trace amounts) are not available for pre-1995 values.

### 3. Data Use Requirements

<http://www.javacoeapp.lrc.gov.on.ca/geonetwork/srv/en/metadata.show?id=13859>

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Data users agree that there is no representation, warranty, condition or other promise of any kind, express, implied, statutory or otherwise, including as to the accuracy, completeness, reliability, currency or veracity of the dataset. The Ministry of the Environment is not responsible for any indemnification regarding any loss, claim, damage or liability that may result from the Requester's use of the Great Lakes Intake Program dataset.

#### 4. Contact for Additional Information

Please contact Dr. Michelle Palmer at the contact information above if you have any questions regarding the Great Lakes Intake Program. Algae data are also available upon request.

Descriptive keywords Great lakes , Water quality , Monitoring , Drinking water intakes , Nearshore , Nutrients , Chlorophyll (theme).  
Language English

#### Extent

##### Geographic bounding box



#### Metadata

File identifier	8115b443-9395-4437-9bd6-a30df16e2078
Metadata language	English
Character set	<b>UTF8:</b> 8-bit variable size UCS Transfer Format, based on ISO/IEC 10646
Hierarchy level	<b>Dataset:</b> Information applies to the dataset
Date stamp	2015-12-21T13:57:50
Metadata standard name	North American Profile of ISO 19115 Geographic Information Metadata

#### Contact

Individual name	Dr. Michelle Palmer	Voice	(416) 327-2881
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Position name	Nutrient and Algal Monitoring Scientist		
Role	<b>Principal investigator:</b> Key party responsible for gathering information and conducting research		