



# Land Information Ontario

## NRVIS/OLIW Data Management Model For **Niagara Escarpment Parks and Open Space System (v.1)**

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### ***Additional Information***

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## Preface

For most of the Ontario Government's geospatial information holdings, successful data management is achieved through the process of documenting data standards. This document summarizes the basic data management requirements for specific Land Information Ontario (LIO) Concrete Class(es).

Several corporate applications are used by LIO to manage, disseminate, protect and make accessible where available, all of the geospatial holdings that reside within the Ontario Land Information Warehouse (OLIW). The major applications are:

- Data Standards Repository (DSR)
- Land Information Ontario (LIO)
- Land Information Ontario Warehouse (LIOW) also occasionally referred to as (OLIW)
- Land Information Data Subscription System (LIDS)
- Land Information Publishing System (LIPS)
- Land Information Security Administration System (LISA)
- Internet Mapping Framework (IMF - includes Web Mapping and Web Feature Services)
- Natural Resources Values Information System (NRVIS) Administration
- Ontario Land Information Directory (OLID)

If the information that you are looking for cannot be found in this document, LIO has a Support Team that can answer additional questions about a Data Class. It follows a **three-tiered support model** to assist clients as follows:

When a user/client has a question about the dataset, they will initially contact...

### **TIER 1**

#### **Information Access Helpline**

(705) 755-1878 email: [lio@ontario.ca](mailto:lio@ontario.ca)

*If the Helpline staff cannot provide assistance, where applicable, the request will in be passed on to...*

### **TIER 2**

#### **\*NRVIS Support Helpline**

Contacts provided by Tier-1

*If NRVIS Support staff cannot provide assistance, they will consult with the appropriate Tier-3 contact Info, and then get back to the client.*

### **TIER 3**

Tier-3 support is directed to the appropriate contact based on the nature of the client's enquiry and category:

*Application focus – related to programming, application functionality.*

*Data focus – related to the Information Owner's data, standards and guidelines where a business area expert needs to be consulted.*

Tier-3 contacts are consulted or provided by Tier-1 or Tier 2

*\* Please note that Tier-2 support is intended for datasets that are maintained by the NRVIS Application. OLIW-only dataset enquiries will be fielded directly to the Information Owner (IO) if assistance cannot be provided by Tier-1 support staff.*

Data Analysis and Enhancement Projects are supported by staff with the Ontario Land and Resources Cluster (LRC), GIS Business Solutions Section (GIS-BSS), GIS Data Services (GDS)

**Caveat:** The information within this document is relevant to the date it was produced, and may become outdated over time. The Information Owner for this Concrete Class is responsible for updating the OLID metadata record for their information holdings. The reader is encouraged to review the corresponding OLID record to obtain up-to-date information about Concrete Classes. The OLID Metadata record search engine, along with additional information about OLIW itself can be found by visiting the [LIOW data page](#).

## Background and Context

A primer about the data class that describes what the information looks like, along with an introduction to the business area (Information Owner) that is responsible with its upkeep. Web links to additional supporting material are provided where applicable.

### Niagara Escarpment Parks and Open Space System (NEPOSS)

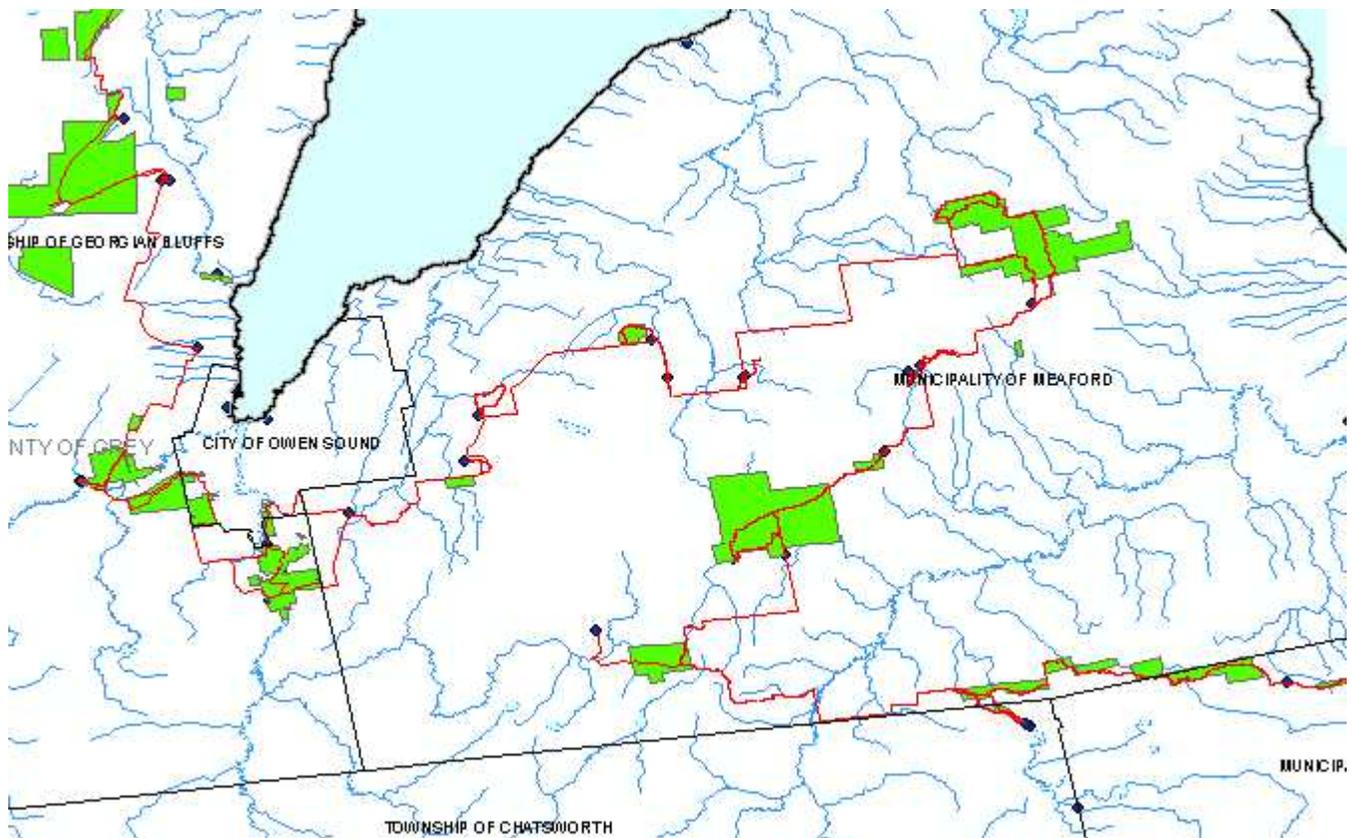
There are in excess of 130 existing and proposed parks and open space areas within the System. The majority are or will be linked by the Bruce Trail. The NEPOSS System is shown on Niagara Escarpment Plan Map 10.

The Ministry of Natural Resources coordinates the development and administration of the Niagara Escarpment Parks and Open Space System.

The Niagara Escarpment Parks and Open Space System is owned and managed through the continued cooperation of seven conservation authorities, the Ministry of Natural Resources, the Ontario Heritage Trust, the federal Department of the Environment - Parks Canada, the St. Lawrence Seaway Authority, the Niagara Parks Commission, the Royal Botanical Gardens, municipalities and other bodies capable of managing areas in the public interest (e.g. the Bruce Trail Association, local service clubs, approved conservation organizations).

[http://www.escarpment.org/travel/parks/index\\_pf.php](http://www.escarpment.org/travel/parks/index_pf.php)

An example of the data appears below. The green polygons represent a sample of the NEPOSS data along with Ontario Trail Network represented by red lines (not included in this data class).



## Information Owner

An Information Owner is responsible for defining the structure, access and upkeep of their business areas' information assets. They are also responsible in communicating with their stakeholder community and to evaluate their business needs.

**Ministry of Natural Resources (MNR),  
Policy Division,  
Natural Heritage, Lands and Protected Spaces Branch,  
Natural Heritage and Land Use Planning Section**

**Status:** Established

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## Concrete Class Details

**Niagara Escarpment Parks and Open Space System v.1 (NEPOSSPK)**

**Modeling Template:** Simple

Simple modeled NRVIS/LIO concrete classes are implemented to be independent from common tables that are normally shared with standard concrete classes.

**Target Databases:** NRVIS (v.3.4.9) and OLIW (2011)

**Sensitivity Classification and Rationale:** Non-Sensitive

*Data is publicly available upon request*

**Sensitivity Governance:**

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## Associated Geographic Unit Types

Also known as "GUTS", these represent the next level of a concrete class into subtypes. For example, concrete class 'Nesting Site' has a number of "GUTS" defined by species e.g. "Bald Eagle Nesting Site, "Great Blue Heron Nesting Site" etc. With the nesting site example, separate GUTS were created to better manage and control access to data associated with protected and vulnerable bird species.

Grouped by LRC's Sensitivity Classification, with expired GUTS listed at the end.

Niagara Escarpment Parks and Open Space System does not have Geographic Unit Types (GUTS) associated with it.

## Roles and Responsibilities

The following lists crucial roles and responsibilities that are associated with this data class. These roles are described in further detail in [Appendix-1](#) of this document.

### Information Owner - Executive

**Branch Director or equivalent**

### Information Owner - Program

**Manager**

Ministry of Natural Resources (MNR), Policy Division, Natural Heritage, Lands and Protected Spaces Branch, Natural Heritage and Land Use Planning Section

### Main Business Area Contact

**Land Use and Planning Advisor**

Ministry of Natural Resources (MNR), Policy Division, Natural Heritage, Lands and Protected Spaces Branch, Natural Heritage and Land Use Planning Section

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## Business Area Experts

### GIS Officer

Ministry of Natural Resources (MNR), Corporate Management Division (CMD), Niagara Escarpment Commission, Land Use and Environmental Planning Section

### CLUPA Internet Coordinator

Ministry of Natural Resources (MNR), Policy Division, Natural Heritage, Lands and Protected Spaces Branch, Natural Heritage and Land Use Planning Section

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## Business Area Use

**Intended Use and Purpose:** To support the objectives of the Niagara Escarpment Parks and Open Space System. These are:

1. To protect unique ecological and historical areas;
2. To provide adequate opportunities for outdoor education and recreation;
3. To provide adequate public access to the Niagara Escarpment;
4. To complete a public system of major parks and open space through additional land acquisition and park and open space planning;
5. To secure a route for the Bruce Trail;
6. To maintain and enhance the natural environment of the Niagara Escarpment;
7. To support tourism by providing opportunities on public land for discovery and enjoyment by Ontario's residents and visitors;
8. To provide a common understanding and appreciation of the Niagara Escarpment;
9. To show leadership in supporting and promoting the principles of the Niagara Escarpment's UNESCO (United Nations Educational, Scientific and Cultural Organization) World Biosphere Reserve Designation through sustainable park planning, ecological management, community involvement, environmental monitoring, research and education.

**Business Drivers:** Part 3 of the Niagara Escarpment Plan  
Niagara Escarpment Planning and Development Act

**Use Caveats:** As of March 2011 the NEPOSS class does not line up with the current parcel data and needs to be spatially adjusted. Also since the data was originally based on survey plans that varied in scales a note of caution should be made to that. Lastly the NEPOSS class hasn't really been updated in a long time, so some parks may include more area than what is actually in the park boundary and vice versa. NEPOSS was based on old data that varied in quality and scale.

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## Geospatial Details

*This section describes how the data will be spatially represented.*

Default geospatial reference details for all NRVIS/LIOW concrete classes:

**Grid or Coordinate System:** *Geographic (Lat., Long.)*

**Map Projection:** *Not Applicable*

**Horizontal Datum:** *NAD83*

**Vertical Datum (z-scale):** *Not Applicable*

**Vertical Positional Accuracy:** *Not Applicable*

**NRVIS/OLIW Abstract Class:** SPMNTPOLY

Spatial Multi-Non-Tessellating-Polygon: An object is represented by ONE or MORE polygons. Polygons may NOT overlap. HOLES within and GAPS between polygons ARE allowed. Example: the St. Lawrence Islands National Park, where the Park itself is made up of many islands.

**Geographic Extent:** Other (Within Niagara Escarpment Plan Boundary)

**Geographic Completeness:** Ongoing collection

**Average Horizontal Positional Accuracy:** Unknown

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## Data Life-Cycle and Maintenance

*This section provides details about the data's life-cycle*

### Collect

**Responsibility of:** Niagara Escarpment Commission (NEC)

GIS Officer

**Agency Location(s):** Georgetown

**Frequency:** As updates supplied

**Procedures/Standards:**

**Tools/Forms/Applications:**

### Maintain and Publish

**Responsibility of:** Ministry of Natural Resources

Crown Land Use Policy Atlas Internet Coordinator

**Agency Location(s):** 300 Water St Peterborough Ontario

**Frequency:** As updates supplied

**Procedures/Standards:**

**Tools/Forms/Applications:** NRVIS

### Maintain and Publish

**Responsibility of:** Niagara Escarpment Commission (NEC) -

GIS Officer

**Agency Location(s):** Georgetown

**Frequency:** As updates supplied

**Procedures/Standards:**

**Tools/Forms/Applications:** NRVIS

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**Distribution**

**Responsibility of:** LIO

**Agency Location(s):** 300 Water St Peterborough Ontario

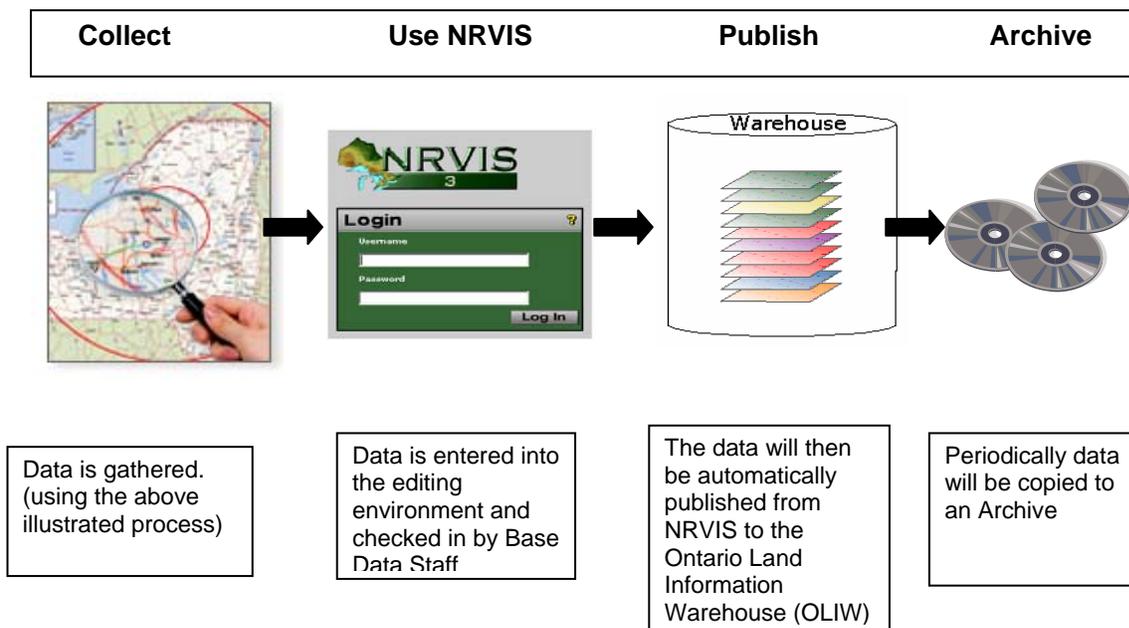
**Frequency:** As requested

**Procedures/Standards:**

**Tools/Forms/Applications:** LIDS

**Data Life-Cycle Diagram**

*Diagram summarizing the data life-cycle for this concrete class*



**Data Access and Services**

*This section provides details about the access management to the information stored in this data class. Some of the information documented here governing the scope of access is summarized in the Information Access form that is officially filed with LIO's Information Access Services Section.*

*Due to the nature and origin of the data stored in Concrete Classes, there are often special rules and considerations that control how the data is to be accessed, used and maintained.*

**Data Access Use Restrictions/Constraints:** All members of the OGDE will have access to the data

**Data Access Maintenance Restrictions/Constraints:** The data will be edited/maintained by the Business Area Experts

**Web Mapping Services (WMS):** No

**Is a NRVIS View available of the (LIOW) data?:** No

**NRVIS Administration Details:**

**Field Data Capture Form:** No

**Is NDD available for this Data Class?:** No

**Personal Information Stored:** No

**Area of Responsibility:** Province

**Default NRVIS Access Privileges:**

- General Browse
  - Natural Heritage, Lands and Protected Spaces Branch Check-In
  - Niagara Escarpment Commission Check-In
- 

## Physical Model

The implemented database physical data model diagram and data dictionary for this data class can be found in the Standard NRVIS Interchange Format (SNIF) report published to the Land Information Ontario [Data in the Warehouse](#) web page.

As with any data class, model modifications may have taken place post-implementation and after the authoring date of this document. For example, tables, relationships, attributes and/or lookup table/domain values and Geographic Unit Types (GUTS) may be added, redefined or removed. The published SNIF reports found on the LIO website will always reflect the latest implemented version of the data class.

## Appendix 1: Data Class Role Descriptions

Confirmed roles and associated responsibilities are crucial for the successful implementation and continued maintenance of all structured geospatial information holdings. The following is a listing of primary role types and context.

Role	Responsibility	Organization / Position
Information Owner - Executive	Information Owner at the <b>executive</b> level who: <ul style="list-style-type: none"> <li>- Sets overall strategy and high level policy for Branch business areas programs with regards to the information holding.</li> <li>- Recognizes information holding as a Branch asset and responsibility by signing the Data Access and Distribution (DADA) form filed with Information Access.</li> </ul>	Varies Branch Director or equivalent
Information Owner - Program	Information Owner at the <b>program</b> level who: <ul style="list-style-type: none"> <li>- Approves and promotes standards, guidelines and procedures for their information holding including its continued maintenance.</li> <li>- Approves deliverables associated the above, including those associated with data modeling projects and enhancements.</li> <li>- Ensures that the appropriate business area experts and resources are available to define and implement the abovementioned deliverables.</li> <li>- Ensures the continued maintenance, data safeguarding (where required) for the information holding.</li> <li>- Ensures that their information holding's user and stakeholder community are kept informed engaged.</li> </ul>	Varies Business area's Section Manager or equivalent
Main Business Area Contact	Main business area lead at the <b>operational</b> level who: <ul style="list-style-type: none"> <li>- Is contacted for modeling and enhancement decisions</li> <li>- Is very familiar with the information holding and its maintenance standards.</li> <li>- If contacted by LIO and NRVIS Support, can answer technical questions about the information holding or...</li> <li>- Direct these questions to or obtain answers from their appropriate business area expert.</li> </ul>	Varies Usually one of the Business Area Experts who is coordinating work and standards associated with the Information holding.
Business Area Expert	Intimate with the information holding at the <b>operational</b> level who is responsible for <u>one</u> or <u>more</u> of the following: <ul style="list-style-type: none"> <li>- Defining the business area's information holding requirements, standards, guidelines and procedures.</li> <li>- Create/update the information holding's official metadata record (OLID).</li> <li>- Is intimate with the information holding's standards and maintenance.</li> <li>- Making or overseeing updates to the information holding and preparing the data for loading into the OLIW database via the NRVIS application or SNIF packages.</li> <li>- For NRVIS data classes: is the NRVIS Administrator who controls the level of access (browse, edits, database check-in) privileges to the information holding by the NRVIS user community.</li> <li>- Answering questions and providing support about their data, standards and guidelines.</li> </ul>	Varies Can be from the same or a different business area for the information holding

## Appendix 2: How to Interpret a Data Model Diagram

The chart below provides a basic primer on how to interpret the symbology seen in a model's Entity Relationship Diagram (ERD).

