



Land Information Ontario

Warehouse Data Class Description
Report:

**Niagara Escarpment
Parks and Open Space
System**

Format:
Standard NRVIS Interchange Format (SNIF)

Issued: June 13, 2011

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Introduction

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Additional Information

For more information about this document, please contact Land Information Ontario at (705) 755-1878 or info-access@webmail.mnr.gov.on.ca.

Published April 2011
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Using this Report

This report describes the contents and structure of the selected data class package in the format (SNIF) in which data classes are extracted from and published to the Ontario Land Information Warehouse. The purpose of this report is to assist data users in understanding the data received in the SNIF package, as well as to assist data publishers in creating a SNIF package for a single data class.

For a general overview of the SNIF package, refer to the document entitled [What is SNIF?](#) The document entitled *Land Information Ontario Detailed SNIF Subscription Specifications* provides a detailed examination of the SNIF.

This report is meant to be used in conjunction with the [Warehouse Data Class Description Report for Common Tables](#). These two reports together fully describe the complete contents of a SNIF package.

Data Class Overview

The Data Class Overview section provides an overall description of the data class, including version. The abstract class refers to the spatial characteristics to which this class conforms.

File List

The File List section lists the mandatory and optional data class tables that are contained within a SNIF package. Tables that are listed as optional may not necessarily be included in a SNIF package. This report only lists the tables that are contained within the SNIF package “spatial” folder. The tables in the “common” folder relate to every data class and are described in a separate *Warehouse Data Class Description Report for Common Tables*.

Product Data Model

The relevant tables for the data class are depicted in diagram form, showing the relationships between the tables. Common tables are not included in the diagram. Their relationships to the geographic unit (GEOG_UNIT) table are depicted in diagram form in the *Warehouse Data Class Description Report for Common Tables*.

Data Class Table Descriptions

This section of the report describes each table associated with the data class. A description of the table is included, along with column names, descriptions, types, and sizes. Columns which are considered mandatory are noted. The abbreviated column names that appear in the shape file itself are also shown.

Valid values are listed for any columns which have a predefined list of possible values. If there are more than six possible values, the first six are shown in the report with the column description. The complete list is shown in the report appendix.

Using this Report - continued

Some data classes are distributed with an enhanced shape file that contains all attributes from tables that are related to the geographic unit table in a one-to-one relationship. These columns are described in the “_DBF_VW” table in this section of the report. Each column description includes the source data class table in which the column exists. For example, the source for the DBF column “NAME” would be noted as AIRPORT_AIRSTRIP.OFFICIAL_NAME. This means that the NAME column is the OFFICIAL_NAME column located in the AIRPORT_AIRSTRIP table.

Appendix

The report appendix includes full listings of permissible values for columns with more than six possible values. Also included is a description of date fields that are included in every table.

Related Documents

[What is SNIF?](#)

[Warehouse Data Class Description Report for Common Tables](#)

[Ministry of Natural Resources Policy for Management of Classified Data in Ontario Land Information Warehouse](#)

[Land Information Ontario Detailed SNIF Subscription Specifications](#)

[Land Information Ontario Detail SNIF Publication Specifications](#)

Data Class Overview

Data Class: Niagara Escarpment Parks and Open Space System
Short Name: NEPOSSPK
Version: 1.

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).

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.

File List

The following list specifies the table files, along with their folder locations and type (mandatory, optional, or lookup), that are included in a SNIF package for this data class, as extracted from the Ontario Land Information Warehouse.

For data publishers, the table files that are not identified as mandatory may be included if the appropriate data is available. Likewise, additional common tables (as described in the *Warehouse Data Class Description Report for Common Tables*) are also identified as optional and may be included if the appropriate data is available. Table files identified as lookup tables provide descriptive values for codes within other tables. These tables do not need to be supplied by data publishers.

spatial\NEPOSSPK\location_accuracy_list.tbl	(lookup)
spatial\NEPOSSPK\neposs_park_agency_list.tbl	(lookup)
spatial\NEPOSSPK\neposs_park_ft.tbl	Yes
spatial\NEPOSSPK\neposs_park_zone.tbl	No
spatial\NEPOSSPK\neposspk (shapefile)	No
spatial\NEPOSSPK\source.tbl	(lookup)

Product Data Model

Model Name: NEPOSS Park v1
Model Author: Nate Bender
Model Revision Date: 2011-04-05
Data Class Name: NEPOSS Park v1
Data Class Version #: 1
Data Class Shortname: NEPOSSPK

Note:

Bolded text seen in tables represent mandatory attributes.

Gray-shaded entities represent existing implemented NRVIS/LIO tables.

Yellow shaded entities represent lookup tables.

NEPOSS_PARK_ZONE

NEPOSS_PARK_ID: NUMBER(13) NOT NULL (FK)
PARK_ZONE_TYPE: VARCHAR2(50) NOT NULL
PARK_ZONE_AREA_HA: NUMBER(9,3) NULL
EFFECTIVE_DATETIME: DATE NOT NULL
EXPIRY_DATETIME: DATE NULL
EXT_EFFECTIVE_DATETIME: DATE NOT NULL
EXT_EXPIRY_DATETIME: DATE NULL

NEPOSS_PARK_FT

FMF_OBJECT_ID: NUMBER(13) NOT NULL
PARK_NAME: VARCHAR2(100) NOT NULL
NODAL_PARK_IND: VARCHAR2(3) NOT NULL
NEPOSS_PARK_SEGMENT: VARCHAR2(75) NOT NULL
PARK_CLASSIFICATION: VARCHAR2(75) NOT NULL
PARK_SITE_ID: NUMBER(3) NOT NULL
PARK_AGENCY: VARCHAR2(100) NULL (FK)
PARK_AREA_HA: NUMBER(9,3) NULL
PMP_URL: VARCHAR2(254) NULL
SOURCE_ID: NUMBER(13) NULL (FK)
SOURCE_DETAIL: VARCHAR2(254) NULL
LOCATION_ACCURACY: VARCHAR2(25) NULL (FK)
EFFECTIVE_DATETIME: DATE NOT NULL
EXPIRY_DATETIME: DATE NULL
EXT_EFFECTIVE_DATETIME: DATE NOT NULL
EXT_EXPIRY_DATETIME: DATE NULL
SHAPE: NUMBER(38) NULL

NEPOSS_PARK_AGENCY_LIST

PARK_AGENCY: VARCHAR2(100) NOT NULL
EFFECTIVE_DATETIME: DATE NOT NULL
EXPIRY_DATETIME: DATE NULL

LOCATION_ACCURACY_LIST

LOCATION_ACCURACY: VARCHAR2(25) NOT NULL
EFFECTIVE_DATETIME: DATE NOT NULL
EXPIRY_DATETIME: DATE NULL

SOURCE

FMF_OBJECT_ID: NUMBER(13) NOT NULL
SOURCE_NAME: VARCHAR2(100) NOT NULL
SOURCE_DATE: VARCHAR2(50) NOT NULL
SOURCE_ORIGINATOR: VARCHAR2(75) NOT NULL
SOURCE_SCALE: VARCHAR2(15) NOT NULL
HORIZONTAL_DATUM: VARCHAR2(10) NOT NULL
VERTICAL_DATUM: VARCHAR2(30) NOT NULL
SOURCE_PROJECTION: VARCHAR2(40) NOT NULL
EFFECTIVE_DATETIME: DATE NOT NULL
EXPIRY_DATETIME: DATE NULL
EXT_EFFECTIVE_DATETIME: DATE NOT NULL
EXT_EXPIRY_DATETIME: DATE NULL

Data Class Table Descriptions

ID	Column Name	Type	Mandatory	Short Name
1	LOCATION_ACCURACY	VARCHAR2(25)	Yes	ACCURACY

The accuracy of the location of the feature at an OBM scale. The degree of conformity or closeness of a measurement to the true value.

Table	NEPOSSPK_DBF_VW			
ID	Column Name	Type	Mandatory	Short Name
1	OBJECT_ID	NUMBER(13,0)	Yes	OBJECT_ID
	System-generated object identifier, unique at the application level.			
2	DESCR	CHAR	No	DESCR
	Translated GUT_NUMBER.			
3	GUT_NUMBER	NUMBER(38,0)	No	GUT_NUMBER
4	LABEL	CHAR	No	LABEL
	Label for identifying the feature.			
5	PARK_NAME	VARCHAR2(100)	Yes	PARK_NAME
	The name of the park. (Source: NEPOSS_PARK_FT.PARK_NAME)			
6	NODAL_IND	VARCHAR2(3)	Yes	NODAL_IND
	Indicates if the park or open space is nodal or not.			

	A regionally represented park.			

	May serve as waysides along the greenways for walking, jogging and cycling and as destination picnic and viewing locations and provide places for rest and reflection.			

	As an example, these parks or open spaces may have a visitor welcoming centre or education centre. (Source: NEPOSS_PARK_FT.NODAL_PARK_IND)			
7	SEGMENT	VARCHAR2(75)	Yes	SEGMENT
	Parks falling within the same general geographic area are grouped accordingly. There are six segments and they are named based on their geographic location i.e. Niagara Peninsula Segment. (Source: NEPOSS_PARK_FT.NEPOSS_PARK_SEGMENT)			
8	CLASSIF	VARCHAR2(75)	Yes	CLASSIF
	Parks are classified into one of 6 classifications based on the following criteria.			

	Nature Reserve			
	Nature Reserves represent the most significant and the distinctive natural areas and landforms found along the Niagara Escarpment. These areas serve to protect selected Areas of Natural and Scientific Interest.			
	Management practices and uses in a nature reserve will ensure that the features and values for which the reserve was established remain protected in perpetuity.			
	Access to these areas will not be widely promoted and activities will be limited to			

those which can further scientific understanding and education (e.g. scientific research, natural history interpretation, and nature trails or the Bruce Trail). The minimum of facilities necessary to support these activities will be provided.

 Natural Environment

These lands are characterized by the variety and combination of outstanding natural features, historical resources and outstanding landscape. Natural Environment areas provide opportunities for the protection of important natural and cultural features.

Activities may range from back-country hiking in the interior of these areas to car-camping and day use activities in the more developed or accessible areas.

 Recreation

In Recreation areas, management and development of resources is appropriate in order to provide the recreational environment and facilities required to support a wide variety of activities.

They either occur naturally or are capable of being developed to provide a wide variety of outdoor recreation opportunities in attractive Escarpment surroundings.

 Historical

Historical parks protect and interpret the distinctive resources representative of the Escarpment's archaeological and historical heritage.

(Development of facilities in these lands will be oriented primarily to the protection, enhancement, and interpretation of the archaeological or historical characteristics of the site).

 Escarpment Access

Escarpment Access parks provide opportunities for public access to the Niagara Escarpment at appropriate points along the Escarpment.

 Resource Management Areas

This classification includes certain public lands that are managed primarily to provide resource related benefits such as sustainable forest management, fish and wildlife management, or flood control.

These areas will provide many benefits, including recreation opportunities, the protection of important natural and cultural resources and resource products.

(Source: NEPOSS_PARK_FT.PARK_CLASSIFICATION)

9	SITE_ID	NUMBER(3,0)	Yes	SITE_ID
	A unique identifier assigned to the park. (Source: NEPOSS_PARK_FT.PARK_SITE_ID)			
10	AGENCY	VARCHAR2(100)	No	AGENCY
	A Park Agency owns or manages parks or natural spaces within the Niagara Escarpment Parks and Open Space System. (Source: NEPOSS_PARK_FT.PARK_AGENCY)			

11	AREA_HA	NUMBER(9,3)	No	AREA_HA
	The area of the park measured in hectares. (Source: NEPOSS_PARK_FT.PARK_AREA_HA)			
12	PMP_URL	VARCHAR2(254)	No	PMP_URL
	A URL pointing to the Park Management Plan. (Source: NEPOSS_PARK_FT.PMP_URL)			
13	SOURCE_ID	NUMBER(13,0)	No	SOURCE_ID
	System generated identifier, unique at the application level. (Source: NEPOSS_PARK_FT.SOURCE_ID)			
14	SRC_DETAIL	VARCHAR2(254)	Yes	SRC_DETAIL
	A short description about the source and how it pertains to the feature. Examples: Summary data from a database, pages in a book or atlas, figure number and page from a publication, a section of a map, record in a database. (Source: NEPOSS_PARK_FT.SOURCE_DETAIL)			
15	ACCURACY	VARCHAR2(25)	No	ACCURACY
	The degree of conformity or closeness of a measurement within the database to its true value in the world. (Source: NEPOSS_PARK_FT.LOCATION_ACCURACY)			
16	EFF_DATE	DATE	Yes	EFF_DATE
	Date/time that the record was created in the LIO database.			

Table NEPOSS_PARK_AGENCY_LIST				
Desc: A lookup table containing the list of Park Agencies				
ID	Column Name	Type	Mandatory	Short Name
1	PARK_AGENCY	VARCHAR2(100)	Yes	AGENCY
A Park Agency owns or manages a park or natural space within the Niagara Escarpment Parks and Open Space System.				

Table NEPOSS_PARK_FT

Desc: A park or open area within the Niagara Escarpment Parks and Open Space System. The majority of parks or open spaces 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 Conservancy, local service clubs, approved conservation organizations).

ID	Column Name	Type	Mandatory	Short Name
1	FMF_OBJECT_ID	NUMBER(13,0)	Yes	OBJECT_ID
	System-generated object identifier, unique at the application level.			
2	PARK_NAME	VARCHAR2(100)	Yes	PARK_NAME
	The name of the park.			
3	NODAL_PARK_IND	VARCHAR2(3)	Yes	NODAL_IND
	Indicates if the park or open space is nodal or not.			

	A regionally represented park.			

	May serve as waysides along the greenways for walking, jogging and cycling and as destination picnic and viewing locations and provide places for rest and reflection.			

	As an example, these parks or open spaces may have a visitor welcoming centre or education centre.			
	Valid Values: Yes, No			
4	NEPOSS_PARK_SEGMENT	VARCHAR2(75)	Yes	SEGMENT
	Parks falling within the same general geographic area are grouped accordingly. There are six segments and they are named based on their geographic location i.e. Niagara Peninsula Segment.			
	Valid Values: Bruce Peninsula, Dundas Valley/Hamilton Escarpment, Georgian Bay/Grey County, Halton Escarpment/Caledon Hills, Niagara Peninsula, Nottawasaga Highlands/Dufferin Hills			
5	PARK_CLASSIFICATION	VARCHAR2(75)	Yes	CLASSIF
	Parks are classified into one of 6 classifications based on the following criteria.			

	Nature Reserve			
	Nature Reserves represent the most significant and the distinctive natural areas and landforms found along the Niagara Escarpment. These areas serve to protect selected Areas of Natural and Scientific Interest.			

Management practices and uses in a nature reserve will ensure that the features and values for which the reserve was established remain protected in perpetuity. Access to these areas will not be widely promoted and activities will be limited to those which can further scientific understanding and education (e.g. scientific research, natural history interpretation, and nature trails or the Bruce Trail). The minimum of facilities necessary to support these activities will be provided.

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These lands are characterized by the variety and combination of outstanding natural features, historical resources and outstanding landscape. Natural Environment areas provide opportunities for the protection of important natural and cultural features. Activities may range from back-country hiking in the interior of these areas to car-camping and day use activities in the more developed or accessible areas.

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(Development of facilities in these lands will be oriented primarily to the protection, enhancement, and interpretation of the archaeological or historical characteristics of the site).

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 Resource Management Areas

This classification includes certain public lands that are managed primarily to provide resource related benefits such as sustainable forest management, fish and wildlife management, or flood control.

These areas will provide many benefits, including recreation opportunities, the protection of important natural and cultural resources and resource products.

Valid Values: St. Lawrence Seaway, National Park, Resource Management Area, Recreation, Nature Reserve, Natural Environment, Historical, Escarpment Access

6	PARK_SITE_ID	NUMBER(3,0)	Yes	SITE_ID
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A unique identifier assigned to the park.

7	PARK_AGENCY	VARCHAR2(100)	No	AGENCY
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A Park Agency owns or manages parks or natural spaces within the Niagara Escarpment Parks and Open Space System.

	Valid Values: See table NEPOSS_PARK_AGENCY_LIST in Appendix for list of valid values.			
8	PARK_AREA_HA	NUMBER(9,3)	No	AREA_HA
	The area of the park measured in hectares.			
9	PMP_URL	VARCHAR2(254)	No	PMP_URL
	A URL pointing to the Park Management Plan.			
10	SOURCE_ID	NUMBER(13,0)	No	SOURCE_ID
	System generated identifier, unique at the application level.			
	Valid Values: See table SOURCE in Appendix for list of valid values.			
11	SOURCE_DETAIL	VARCHAR2(254)	No	SRC_DETAIL
	A short description about the source and how it pertains to the feature.			
	Examples: Summary data from a database, pages in a book or atlas, figure number and page from a publication, a section of a map, record in a database.			
12	LOCATION_ACCURACY	VARCHAR2(25)	No	ACCURACY
	The degree of conformity or closeness of a measurement within the database to its true value in the world.			
	Valid Values: See table LOCATION_ACCURACY_LIST in Appendix for list of valid values.			

Table NEPOSS_PARK_ZONE				
<p>Desc: An area within a park used to describe specific geographies, policies and management priorities. A park may consist of many different park zones. A park may only have zones if it has an approved Park Management Plan.</p>				
ID	Column Name	Type	Mandatory	Short Name
1	NEPOSS_PARK_ID	NUMBER(13,0)	Yes	PARK_ID
<p>System-generated object identifier, unique at the application level.</p>				
2	PARK_ZONE_TYPE	VARCHAR2(50)	Yes	ZONE_TYPE
<p>The type of park zone. There are six zones available.</p> <p>-----</p> <p>Nature Reserve Zones: include significant natural features or areas which require careful management to ensure the long term protection of these natural values.</p> <p>-----</p> <p>Natural Zones: include aesthetic landscapes in which a minimum of development is permitted to support low to moderate intensity recreational activities.</p> <p>-----</p> <p>Access Zones: serve as staging areas (e.g. trailheads, parking lots) where minimal facilities support the use of Nature Reserve Zones and relatively undeveloped Natural and Historical Zones.</p> <p>-----</p> <p>Historical Zones: include significant archaeological or historical features or areas which require management that will ensure the long term protection of the significant values.</p> <p>-----</p> <p>Development Zones: provide the main access to the park and open space, and facilities and services to support the recreational activities available (e.g. campgrounds, picnic areas, maintenance facilities).</p> <p>-----</p> <p>Resource Management Zones: provide for intensive resource management (e.g. forest management, fisheries management, water management, wildlife management, multiple use management). Valid Values: Nature Reserve, Natural, Access, Historical, Development, Resource Management</p>				
3	PARK_ZONE_AREA_HA	NUMBER(9,3)	No	AREA_HA
<p>Area of the park zone in hectares.</p>				

Table SOURCE				
Desc:	A description of the source information that is the basis for creating or changing information about a geographic unit. It may be an observation, possibly resulting from a field survey or an adhoc report or a reference to a published or unpublished document. A source may have one Source Method.			
ID	Column Name	Type	Mandatory	Short Name
1	FMF_OBJECT_ID	NUMBER(13,0)	Yes	OBJECT_ID
	System generated identifier, unique at the application level.			
2	SOURCE_NAME	VARCHAR2(100)	Yes	NAME
	The name of the source.			
3	SOURCE_DATE	VARCHAR2(50)	No	SRC_DATE
	The date of the source.			
4	SOURCE_ORIGINATOR	VARCHAR2(75)	No	ORIGINATOR
	The originator or author of the source. Includes the author(s) of a book; the originator(s) of a survey, etc. Examples : Smith, J. Smith, J. and Jones, K. Smith, J., Jones, K. and White, T. Anon. (where no author identified) OMNR (where authorship is corporate)			
5	SOURCE_SCALE	VARCHAR2(15)	No	SCALE
	The scale of the vector base or aerial photography, the cell resolution of a grid, or the pixel resolution of an image used to record the location of the feature. Examples: For a vector source or aerial photography: 1:10,000 1:20,000 1:250,000. For a grid or imagery source: 1 km, 10 m, 15 seconds.			
6	HORIZONTAL_DATUM	VARCHAR2(10)	No	H_DATUM
	Identifies the reference system used for defining the coordinates of points. There are three common horizontal datum systems used in Ontario: NAD83, NAD27, NAD27 with 1974 adjustment. The datum models the shape of the earth. Valid Values: NAD27,NAD83,NAD27adj74			
7	VERTICAL_DATUM	VARCHAR2(30)	No	V_DATUM
	The zero surface to which elevations or heights are referred is called a vertical datum. Traditionally, surveyors and mapmakers have tried to simplify the task by using the average (or mean) sea level as the definition of zero elevation, because the sea surface is available worldwide. MSL is a close approximation to another surface, defined by gravity, called the geoid, which is the true zero surface for measuring elevations. Example: WGS-84 EGM96 Geoid.			
8	SOURCE_PROJECTION	VARCHAR2(40)	No	PROJECTION
	The name of a systematic representation of all or part of the surface of the Earth on			

a plane or developable surface.

Appendix

Lookup Tables

These tables are lookup tables containing codes and associated descriptive values.

Table Name: Location Accuracy List

LOCATION_ACCURACY	EXPIRY_DATETIME
AC Accurate (to 10m)	2006/10/30
RE Reliable (to 100m)	2006/10/30
AP Approximate (to 500m)	2006/10/30
MO Moderate (to 1000m)	2006/10/30
GE General (to 10,000m)	2006/10/30
VG Vague (to 100,000m)	2006/10/30
^ Data Load	2006/10/30
VA Very Accurate (to 2m)	2006/10/30
Within 1 metre	
Within 2 metres	
Within 5 metres	
Within 10 metres	
Within 20 metres	
Within 50 metres	
Within 100 metres	
Within 200 metres	
Within 500 metres	
Within 1000 metres	
Within 2000 metres	
Within 5000 metres	
Within 10,000 metres	
Over 10,000 metres	
Not Applicable	

Table Name: Neposs Park Agency List

PARK_AGENCY	EXPIRY_DATETIME
Bruce Trail Conservancy	
City of Burlington	
City of Hamilton	
City of Owen Sound	
Conservation Halton	
Country Heritage Experience Inc.	
County of Grey	
Credit Valley Conservation	
Escarpment Biosphere Conservancy	
Grey Sauble Conservation	
Hamilton Region Conservation	
Niagara Parks Commission	
Niagara Peninsula Conservation	
Nottawasaga Valley Conservation	
Ontario Heritage Trust	
Ontario Parks	
Parks Canada	
Regional Municipality of Halton	
Royal Botanical Gardens	
St. Lawrence Seaway Authority	
Toronto Region Conservation	
Town of Blue Mountains	

Table Name: Source

FMF_OBJE CT_ID	SOURCE_NAME	SOURCE_DATE	SOURCE_ORIGINATOR	SOURCE_SCALE	HORIZONTAL_DATUM	VERTICAL_DATUM	SOURCE_PROJECTION	EXT_EXPIRY_DATE	EXT_EXPIRY_TIME	EXT_EFFECTIVE_DATE	EXT_EFFECTIVE_TIME
210,300,041	Urban Geology Automated Information System (UGAIS)	1956-1972	Geological Survey of Canada	Varies	NAD27	Mean Average Sea Level	Universal Transverse Mercator			15/12/2008	12:00 AM
210,300,042	Water Well Information System (WWIS)	1899 - 2003	Ministry of the Environment, Environmental Monitoring and Reporting Branch	Varies	NAD27	Mean Average Sea Level	Universal Transverse Mercator			15/12/2008	12:00 AM
210,300,043	Water Well Data Improvement Project	2006	Ministry of Natural Resources, Water Resources Information Program	Varies	NAD83	Mean Average Sea Level	Geodetic			15/12/2008	12:00 AM
210,300,044	Waterloo Area Geology Automated Information System (WAGAIS)	1900 - 1977	Geological Survey of Canada	Varies	NAD27	Mean Average Sea Level	Universal Traverse Mercator			15/12/2008	12:00 AM
210,300,045	MTO Engineering Reports	Varies	Ministry of Transportation	Varies		Mean Average Sea Level				15/12/2008	12:00 AM
210,300,046	Ontario Geological Survey Fieldwork Mapping	Varies to 2004	Ontario Geological Survey	1:50,000	NAD83	Mean Average Sea Level	Universal Transverse Mercator			15/12/2008	12:00 AM
210,300,047	City of Ottawa	1883 - 2006	City of Ottawa	Varies		Mean Average	Geodetic and UTM			15/12/2008	12:00 AM

	Borehole Database					Sea Level				
210,30 0,048	Quaternary Geology Study	Varies	Ministry of Northern Development and Mines			Mean Average Sea Level				15/12/2008 12:00 AM
210,30 0,049	Local Borehole Drilling Program Results	2006	Ministry of Northern Development and Mines			Mean Average Sea Level				15/12/2008 12:00 AM
210,30 0,034	Unknown Imagery									19/10/2006 2:14 PM
210,30 0,035	Local Knowledge									19/10/2006 2:14 PM
210,30 0,019	Digital File									19/10/2006 2:14 PM
210,30 0,001	Field Survey\Site Visit									01/08/2006 12:00 AM
210,30 0,002	Aerial Survey									01/08/2006 12:00 AM
210,30 0,003	MNR Based Observation									01/08/2006 12:00 AM
210,30 0,004	Public Observation									01/08/2006 12:00 AM
210,30 0,005	GPS Data Collection									01/08/2006 12:00 AM
210,30 0,006	File System/Filing Cabinet Information									01/08/2006 12:00 AM
210,30 0,007	Digital Map									01/08/2006 12:00 AM
210,30 0,008	Hard Copy/Paper Map									01/08/2006 12:00 AM
210,30 0,009	Book/Publication									01/08/2006 12:00 AM
210,30 0,010	Ontario Base Map	1978 to	Ministry of Natural		NAD27		UTM			01/08/2006 12:00 AM

		1995	Resources						
210,30 0,011	Ontario Base Map 1:10000	1978 to 1995	Ministry of Natural Resources	10000	NAD27		UTM		01/08/2006 12:00 AM
210,30 0,012	Ontario Base Map 1:20000	1978 to 1995	Ministry of Natural Resources	20000	NAD27		UTM		01/08/2006 12:00 AM
210,30 0,013	NTS Map 1:50000	1970 to 2003	Department of Natural Resources	50000	NAD27				01/08/2006 12:00 AM
210,30 0,014	NTS Map 1:250000	1970 to 2003	Department of Natural Resources	25000 0	NAD27				01/08/2006 12:00 AM
210,30 0,015	AFFM Provincial Administrative Maps		Ministry of Natural Resources	60000 0					01/08/2006 12:00 AM
210,30 0,016	Forest Resources Inventory		Ministry of Natural Resources		NAD27		UTM		01/08/2006 12:00 AM
210,30 0,017	OrthoImagery		Ministry of Natural Resources						01/08/2006 12:00 AM
210,30 0,018	Aerial Photography		Ministry of Natural Resources	15840					01/08/2006 12:00 AM
210,30 0,020	IKONOS Multispectral		Ministry of Natural Resources						01/08/2006 12:00 AM
210,30 0,021	IKONOS Panchromatic		Ministry of Natural Resources						01/08/2006 12:00 AM
210,30 0,022	IRS Multispectral		Ministry of Natural Resources						01/08/2006 12:00 AM
210,30 0,023	IRS Panchromatic		Ministry of Natural Resources						01/08/2006 12:00 AM
210,30 0,024	IRS Pansharpened		Ministry of Natural Resources						01/08/2006 12:00 AM
210,30 0,025	Landsat-7 ETM		Ministry of Natural Resources						01/08/2006 12:00 AM

210,30 0,026	Landsat-4,5 MSS		Ministry of Natural Resources							01/08/2006 12:00 AM
210,30 0,028	Landsat- 1,2,3 MSS		Ministry of Natural Resources							01/08/2006 12:00 AM
210,30 0,029	CIR Photograph y		Ministry of Natural Resources							01/08/2006 12:00 AM
210,30 0,030	External Source from NRVIS 2									01/08/2006 12:00 AM
210,30 0,031	Internal Source from NRVIS 2									01/08/2006 12:00 AM
210,30 0,032	Material Source from NRVIS 2									01/08/2006 12:00 AM
210,30 0,033	Source Observatio n from NRVIS 2									01/08/2006 12:00 AM
67,496, 528	MNDM Client/Com pany Information									12/01/2007 12:00 AM
67,496, 529	MNDM Assessment File									12/01/2007 12:00 AM
210,30 0,040	Ontario Parcel				NAD83					25/01/2007 12:00 AM
68,214, 043	NRCAn - National Hydro Network	2008	Natural Resources Canada	50000	NAD83					15/10/2008 4:07 PM
68,214, 056	NRCAn - CanVec	2008	Natural Resources Canada	50000	NAD83					15/10/2008 4:07 PM

Appendix (continued)

Date Information

Note that the format for date attribute columns is yyyy-mm-dd-hh:mm:ss. An example is 1998-02-16-00:00:00.

Standard date columns are shown on the data model diagram, but to save space are not repeated for each of the detailed table descriptions. The descriptions below apply to all of them.

Column Name	Type	Man	Short Name
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
For subscription: Date/time that the record was created in the LIO database. For publication: Date/time that the record was created in the source database.			
EXPIRY_DATETIME	DATE	No	EXP_DATE
For subscription: Date/time the record is no longer valid in the LIO database. For publication: Date/time the record is no longer valid in the source database.			
EXT_EFFECTIVE_DATETIME	DATE	Yes	EXT_EFF_DT
For subscription: Date/time that the record was created in the source database. For publication: not applicable.			
EXT_EXPIRY_DATETIME	DATE	No	EXT_EXP_DT
For subscription: Date/time the record is no longer valid in the source database. For publication: not applicable.			

All tables contain EFFECTIVE_DATETIME and EXPIRY_DATETIME.
All tables except lookup tables also contain EXT_EFFECTIVE_DATETIME and EXT_EXPIRY_DATETIME.

