

Land Information Ontario Data Description

Trail Segment

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LIO Class Catalogue

Trail Segment

Class Short Name: TRAILSEG

Version Number: 3

Class Description:

A Trail Segment is a line feature which defines a linear corridor through the natural or urban environment, for one or more of the following recreational purposes; hiking, backpacking, biking, horseback riding cross-country skiing or snowmobiling or for access to campgrounds. These corridors may be long single segments or form a looping system. One Trail Segment is distinguished from another trail segment within the same trail by having different features or rankings.

Abstract Class Name: SPSLINE

Abstract Class

Description:

Spatial Single-Line: An object is represented by ONE and ONLY ONE line segment. Line segments MUST be continuous. Examples: geological fault lines, roads at a 1: 600,000 scale.

Tables in LIO Class:
Trail Segment

TRAIL_SEGMENT_FT

A designated path available for recreational use, including hiking trails, snowmobile trails, cross-country ski trails and dog sled trails. Includes all wilderness trails which are maintained by MNR or other agencies.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	
System generated identifier, unique at the application level.				
OFFICIAL_NAME	VARCHAR2 (75)	No	NAME	
MNR				
SURFACE_ENHANCE_CODE	VARCHAR2 (2)	No	SURF_EHN_C	B, G, P, R, SC, WC (See SURFACE_ENHANCEMENT table)
An Indication of the type of surface the trail is. eg. paved, stone chips, wood chips, gravel, boardwalk, none				
ENVIRONMENTAL_CONCERNS	VARCHAR2 (2000)	No	ENV_CONC	
A Description of known Environmental concerns.				
INFRASTRUCTURE_DESCR	VARCHAR2 (2000)	No	INFRASTRUC	
A description of the structures along the trail.				
MAINTENANCE_IND	VARCHAR2 (3)	No	MAINT	Yes,No
An indicator of whether the site is maintained.				
MAINTAINED_DATE	DATE	No	MAINT_DT	
Last date site received maintenance.				
LOCATION_ACCURACY	VARCHAR2 (25)	Yes	ACCURACY	Not Applicable, Over 10,000 metres, Within 1 metre, Within 10 metres, Within 10,000 metres, Within 100 metres, ... (See LOCATION_ACCURACY_LIST table)
The degree of conformity or closeness of a measurement within the database to its true value in the world.				
LOCATION_DESCR	VARCHAR2 (2000)	No	LOC_DES	
Description of the area or directions on how to get to the site.				

GEOG_UNIT_DESCR	VARCHAR2 (2000)	No	GUNT_DES
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Detailed description of the Geographic Unit.

SENSITIVITY_CLASS	VARCHAR2 (15)	Yes	SENS_CLASS
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The ranking of the sensitivity of the information embodied in the feature. Often wide-spread knowledge of the location of some rare aspect of our natural heritage will endanger it. On the other hand, this knowledge by some parties is also extremely important for its protection. High - information that is extremely sensitive and intended for use by named individuals only. Refers to information that could have negative impacts on human life or health if released. Currently no data classes meet this Medium - information that is sensitive and intended for use only by specified groups of employees and approved agents of the Crown. For OLIW/NRVIS refers to information where the entire data type has been flagged as sensitive (i.e. Stick Nests for Vulnerable Threatened and Endangered (VTE) species) Low - information generally available to employees and approved agents of the Crown. Refers to sensitive features within a data type not normally sensitive (i.e. specific instances of Pileated Wood pecker) Non-Sensitive - data and information that does not fall into any of the three sensitivity levels. If disclosed will not result in any injury to individuals, government or private sector institutions (i.e. base data).

SENSITIVITY_DATE	DATE	Yes	SENS_DATE
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The date that the sensitivity classification was established.

SENSITIVITY_RATIONALE	VARCHAR2 (50)	Yes	SENS_RAT
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The primary reason for the information sensitivity classification. Examples: "VTE Species", "Data Provider Agreement", "No Restriction Needed" (for Non-Sensitive data), "Protect Feature Type", "Protect Single Feature", "Legislative or Legal Reqt", "Cultural Heritage Site", "Other". Note: For Species at Risk (SAR) features, please use "Legislative or Legal Reqt" as a rationale.

SENS_RATIONALE_OTHER_DESCR	VARCHAR2 (250)	No	SENS_DESCR
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Description of the reason(s) for the information classification when "Other" is selected as the rationale.

VERIFICATION_STATUS_FLG	VARCHAR2 (10)	No	VERISTT_FL
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An indication as to whether a qualified employee has verified the existence of the geographic unit.

VERIFICATION_STATUS_DATE	DATE	No	VERISTT_DT
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Date that the geographic unit was verified/validated.

BUSINESS_EFF_DATE_FLG	VARCHAR2 (10)	No	BUSEFFDTFL
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Indication of whether the business effective date is an actual or estimated value.

BUSINESS_EFFECTIVE_DATE	DATE	No	BUS_EFF_DT
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Date that the record becomes effective in relation to the business i.e. the date MNR became aware of its existence.

BUSINESS_EXPIRY_DATE	DATE	No	BUS_EXP_DT
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A date indicating when the record was determined to be invalid.

SYSTEM_CALCULATED_AREA	NUMBER (16,3)	No	SYS_AREA
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The area of a polygon measured in square metres by the system.

SYSTEM_CALCULATED_LENGTH	NUMBER	No	SYS_LENGTH
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(16,3)

The perimeter of a polygon or length of a line measured in metres.

USER_CALCULATED_METRIC	NUMBER (16,3)	No	USER_CALC
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The length, perimeter or area of an object in metres or square metres as measured or provided by the user.

GENERAL_COMMENTS	VARCHAR2 (2000)	No	GNL_CMT
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General comments.

GEOMETRY_UPDATE_DATETIME	DATE	No	GEO_UPD_DT
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Date/time the geometry was created or last modified in the source database.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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Date/time the record was created or last modified in the source database.

CLASS_ALIAS_NAME

Location name for the geographic feature. Only one primary local name is allowed per area. Other local names are alias names.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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OGF_ID	NUMBER (13,0)	Yes	OGF_ID	
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A unique numeric provincial identifier assigned to each object.

LOCAL_NAME	VARCHAR2 (75)	Yes	LOCAL_NAME	
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Local name of geographic unit.

CLASS_SHORT_NAME	VARCHAR2 (8)	Yes	CLASS_NAME	
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System-generated column denoting the concrete class which this record is part of.

PRIMARY_NAME_IND	VARCHAR2 (3)	Yes	PRIM_IND	Yes, No
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Indication of whether this is the primary local or common name.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
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Date/time the record was created or last modified in the source database.

CLASS_DATABASE_REFERENCE

A link to an external database or an internal object in the same database.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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OGF_ID	NUMBER (13,0)	Yes	OGF_ID	
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A unique numeric provincial identifier assigned to each object.

INTERNAL_EXTERNAL_FLG	VARCHAR2	Yes	INT_EXT	Internal, External
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(10)

A flag indicating if the database being referenced is internal (NRVIS/LIO) or external.

DATABASE_REFERENCE_IDENT	VARCHAR2	Yes	IDENT
	(50)		

Identifier of a reference that is linked e.g. Land Use Permit Number, LIS Number, the FMF Object ID of a Concrete Class.

CLASS_SHORT_NAME	VARCHAR2	Yes	CLASS_NAME
	(8)		

Static short name that will be used by for the concrete class.

DATABASE_REFERENCE_DETAIL	VARCHAR2	No	DETAIL
	(2000)		

Details on the rationale, use, dependency, or comments on the database reference. If a dependence on other data class geometry exists, this can be identified in this field.

RELATED_CLASS_SHORT_NAME	VARCHAR2	No	CLASS_NAME
	(8)		

The static short name that is used by the related concrete class.

EXT_REF_TYPE_CODE	VARCHAR2	No	EXT_TYPE
	(8)		

The type of external database that the identifier pertains to e.g. LUPS, LIS, etc.

TYPE_OTHER_DESCR	VARCHAR2	No	OTH_DESCR
	(60)		

A full description of the type when set to "other".

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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Date/time the record was created or last modified in the source database.

CLASS_JUSTIFICATION

The justification for the addition of or changes to a geographic feature.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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OGF_ID	NUMBER	Yes	OGF_ID
	(13,0)		

A unique numeric provincial identifier assigned to each object.

JUSTIFICATION_REASON	VARCHAR2	Yes	REASON
	(2000)		

Reason for justification of the existence of a geographic feature.

CLASS_SHORT_NAME	VARCHAR2	Yes	CLASS_NAME
	(8)		

System-generated column denoting the data class which this record is part of.

JUSTIFICATION_DATE	DATE	Yes	JUSTIF_DT
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Date that the geographic feature was justified.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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Date/time the record was created or last modified in the source database.

CLASS_OTHER_INFORMATION

This table allows the NRVIS/LIO users to enter local-needs type of information, currently not captured in the NRVIS or LIO database. The table content will be analysed periodically to determine if the field(s) should be incorporated into the regular data class structure.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	
A unique numeric provincial identifier assigned to each object.				
FIELD_NAME	VARCHAR2 (30)	Yes	FIELD_NAME	
The attribute name for the information.				
CLASS_SHORT_NAME	VARCHAR2 (8)	Yes	CLASS_NAME	
System-generated column denoting the concrete class which this record is part of.				
FIELD_TYPE	VARCHAR2 (8)	Yes	FIELD_TYPE	String, Integer, Double
The type of field.				
FIELD_VALUE_STRING	VARCHAR2 (50)	No	VALUE_S	
A field used to store character strings.				
FIELD_VALUE_INTEGER	NUMBER (5,0)	No	VALUE_I	
A field used to store integer values (small numbers).				
FIELD_VALUE_DOUBLE	NUMBER (10,3)	No	VALUE_D	
A field used to store decimal data with up to two decimals.				
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
Date/time the record was created or last modified in the source database.				

CLASS_PARTY_ROLE

A link to an external contact database.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	
A unique numeric provincial identifier assigned to each object.				
PARTY_IDENT	VARCHAR2 (25)	Yes	PARTY_ID	
An identifier for a party (group or individual). It should reference an identifier in an external				

Date/time the record was created or last modified in the source database.

database which would contain further information. The identifier should not contain personal information (i.e. Social Insurance Number, Outdoors Card Number, phone number, name etc.).

PARTY_DATABASE	VARCHAR2 (100)	Yes	PARTY_DB
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The database that contains the party information.

ROLE_TYPE	VARCHAR2 (50)	Yes	ROLE_TYPE	Affiliated With, Approver, Authority Holder, Claim Holder, Contact, Contractor, ... (See ROLE_TYPE_LIST table)
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The role that an organization or an individual plays.

CLASS_SHORT_NAME	VARCHAR2 (8)	Yes	CLASS_NAME
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System-generated column denoting the concrete class which this record is part of.

ROLE_DETAIL	VARCHAR2 (200)	No	DETAIL
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Additional details about the role.

START_DATE	DATE	No	START_DATE
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The date when a Party starts to play a Role.

END_DATE	DATE	No	END_DATE
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The date when a Party ceases to play a Role.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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Date/time the record was created or last modified in the source database.

CLASS_SITE_ACCESS

Intersection table between Data Class table and Site Access Method List.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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OGF_ID	NUMBER (13,0)	Yes	OGF_ID
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A unique numeric provincial identifier assigned to each object.

SITE_ACCESS_METHOD	VARCHAR2 (20)	Yes	METHOD	4x4 Vehicle, ATV Vehicle, Boat, Motorized, Canoe, Float Aircraft, Foot, ... (See SITE_ACCESS_METHOD_LIST table)
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The method of accessing the geographic feature.

CLASS_SHORT_NAME	VARCHAR2 (8)	Yes	CLASS_NAME
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System-generated column denoting the data class which this record is part of.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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CLASS_SOURCE

Intersection table between the data class and Source List table.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	

A unique numeric provincial identifier assigned to each object.

SOURCE_NAME	VARCHAR2 (100)	Yes	SOURCE_NAM	AFFM Provincial Administrative Maps, Aerial Photography, Aerial Survey, Book/Publication, CIR Photograpy, City of Ottawa Borehole Database, ... (See SOURCE_LIST table)
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The name of the source.

SOURCE_DETAIL	VARCHAR2 (254)	Yes	SOURCE_DET	
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What part of the source pertains to the feature. Examples: Summary data from a data base, pages in a book or atlas, figure number and page from a publication, a section of a map, record in a database.

CLASS_SHORT_NAME	VARCHAR2 (8)	Yes	CLASS_NAME	
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Unique abbreviation of the concrete class name (primary key)

SOURCE_DESCR	VARCHAR2 (2000)	No	SOURCE_DES	
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Text providing details about the source.

METHOD_DESCR	VARCHAR2 (2000)	No	METHOD	
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The type of method, tools, and techniques used in observing/collecting/recording the Source. It may also include a URL where users could get further information on the method used.

SOURCE_APPLICABILITY	VARCHAR2 (20)	No	APPLICABIL	
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How the source contributes to the feature's definition.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
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Date/time the record was created or last modified in the source database.

CLASS_SUPPORTING_MATERIAL

Material (document/file/picture) that provides more information on a geographic feature.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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Date/time the record was created or last modified in the source database.

OGF_ID	NUMBER (13,0)	Yes	OGF_ID
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A unique numeric provincial identifier assigned to each object.

MATERIAL_NAME	VARCHAR2 (200)	Yes	NAME
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A name or brief description of the material.

MATERIAL_LOCATION	VARCHAR2 (200)	Yes	LOCATION
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The location where the supporting material is stored. This may be a physical location or a link to a storage location.

CLASS_SHORT_NAME	VARCHAR2 (8)	Yes	CLASS_NAME
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System-generated column denoting the concrete class which this record is part of.

URL_ENG	VARCHAR2 (500)	No	URL_ENG
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The address of a computer or a document in English on the Internet that consists of a communications protocol followed by a colon and two slashes (as http://), the identifier of a computer (as www.m-w.com) and usually a path through a directory to a file -- called also universal resource locator.

URL_FRE	VARCHAR2 (500)	No	URL_FRE
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The address of a computer or a document in French on the Internet that consists of a communications protocol followed by a colon and two slashes (as http://), the identifier of a computer (as www.m-w.com) and usually a path through a directory to a file -- called also universal resource locator.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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Date/time the record was created or last modified in the source database.

CONDITION_RATING

List of valid Condition Rating Codes

Column Name	Column Type	Mandatory	Short Name	Valid Values
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CONDITION_RATING_CODE	VARCHAR2 (1)	Yes	CONDITION_
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An indication of the condition of the site. eg. excellent, moderate, poor

CONDITION_RATING_DESCR	VARCHAR2 (10)	Yes	CONDITION_
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A description of the indication of the condition of the site.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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Date/time the record was created or last modified in the source database.

EXPIRY_DATETIME	DATE	No	EXP_DATE
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Date/time that the record was expired from use.

DIFFICULTY_RATING

null

Column Name	Column Type	Mandatory	Short Name	Valid Values
DIFFICULTY_RATING_CODE	VARCHAR2 (1)	Yes	DIFFICULTY	
Difficulty rating of site. eg. high, medium, low				
DIFFICULTY_RATING_DESCR	VARCHAR2 (10)	Yes	DIFFICULTY	
Difficulty rating of site.				
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
Date/time the record was created or last modified in the source database.				
EXPIRY_DATETIME	DATE	No	EXP_DATE	
Date/time that the record was expired from use.				

EXTERNAL_REF_TYPE_LIST

List of valid EXTERNAL_REFERENCE_TYPE codes.

Column Name	Column Type	Mandatory	Short Name	Valid Values
EXT_REF_TYPE_CODE	VARCHAR2 (8)	Yes	EXT_REF_TY	
The type of external database that the identifier pertains to e.g. LUPS, LIS, Other.				
EXT_REF_TYPE_DESCR	VARCHAR2 (60)	Yes	EXT_REF_TY	
Description of the type of external reference.				
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
Date/time the record was created or last modified in the source database.				
EXPIRY_DATETIME	DATE	No	EXP_DATE	
Date/time that the record was expired from use.				

FIRE_FUEL_CLASS_LIST

List of valid Fuel Class codes.

Column Name	Column Type	Mandatory	Short Name	Valid Values
FUEL_CLASS	VARCHAR2 (40)	Yes	FUEL_CLASS	
The forest fire danger rating fuel class, as defined by the Canadian Forest Fire Behavior Prediction System, for the area in and around the feature i.e. immature jack pine, leafless aspen, grass				
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
Date/time the record was created or last modified in the source database.				

EXPIRY_DATETIME DATE No EXP_DATE

Date/time that the record was expired from use.

LOCATION_ACCURACY_LIST

List of valid LOCATION_ACCURACYs.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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LOCATION_ACCURACY	VARCHAR2 (25)	Yes	ACCURACY	
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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.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
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Date/time the record was created or last modified in the source database.

EXPIRY_DATETIME	DATE	No	EXP_DATE	
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Date/time that the record was expired from use.

ROLE_TYPE_LIST

List of valid party role types.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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ROLE_TYPE	VARCHAR2 (50)	Yes	ROLE_TYPE	
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The role that an organization or an individual plays.

ROLE_TYPE_DESCR	VARCHAR2 (2000)	Yes	DESCR	
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Description of Role Type.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
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Date/time the record was created or last modified in the source database.

EXPIRY_DATETIME	DATE	No	EXP_DATE	
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Date/time that the record was expired from use.

SITE_ACCESS_METHOD_LIST

A list of valid SITE_ACCESS_METHODs (e.g. Road, Helicopter, Boat, etc.)

Column Name	Column Type	Mandatory	Short Name	Valid Values
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SITE_ACCESS_METHOD	VARCHAR2 (20)	Yes	METHOD	
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The method of accessing the geographic unit.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
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Date/time the record was created or last modified in the source database.

EXPIRY_DATETIME DATE No EXP_DATE

Date/time that the record was expired from use.

SITE_FACILITY

A type of support capability available at a designated site. eg. Restrooms, Chalet, Parking etc.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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SITE_FACILITY_CODE	VARCHAR2 (3)	Yes	SITE_FACIL	
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A code assigned to each Site Facility. eg. chalet, camp sites, drinking water, fire wood, garbage pick-up, electricity, parking, restrooms, telephone

SITE_FACILITY_DESCR	VARCHAR2 (35)	Yes	SITE_FACIL	
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Type of site facility. eg. chalet, camp sites, drinking water, fire wood, garbage pick-up, electricity, parking, restrooms, telephone

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
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Date/time the record was created or last modified in the source database.

EXPIRY_DATETIME	DATE	No	EXP_DATE	
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Date/time that the record was expired from use.

SOURCE_LIST

A description of the source information that is the basis for creating or changing information about a geographic feature. In may be an observation, possibly resulting from a field survey or an adhoc report or a reference to a published or unpublished document.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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SOURCE_NAME	VARCHAR2 (100)	Yes	NAME	
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The name of the source.

SOURCE_DATE	VARCHAR2 (50)	No	SRC_DATE	
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The date of the source.

SOURCE_ORIGINATOR	VARCHAR2 (75)	No	ORIGINATOR	
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The originator or author of the source. Includes the author(s) of a book; the originator(s) of a survey or project, 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) Northwest District (lead and delivered the data collection project)

SOURCE_SCALE	VARCHAR2 (15)	No	SCALE	
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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.

HORIZONTAL_DATUM	VARCHAR2 (10)	No	H_DATUM
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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.

VERTICAL_DATUM	VARCHAR2 (30)	No	V_DATUM
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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.

SOURCE_PROJECTION	VARCHAR2 (40)	No	PROJECTION
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The name of a systematic representation of all or part of the surface of the Earth on a plane or developable surface.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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Date/time the record was created or last modified in the source database.

EXPIRY_DATETIME	DATE	No	EXP_DATE
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Date/time that the record was expired from use.

SURFACE_ENHANCEMENT

List of valid Surface Enhancement Codes

Column Name	Column Type	Mandatory	Short Name	Valid Values
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SURFACE_ENHANCE_CODE	VARCHAR2 (2)	Yes	SURFACE_EN	
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An Indication of the type of surface the trail is. eg. paved, stone chips, wood chips, gravel, boardwalk, none

SURFACE_ENHANCE_DESCR	VARCHAR2 (20)	Yes	SURFACE_EN	
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An Indication of the type of surface the trail is.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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Date/time the record was created or last modified in the source database.

EXPIRY_DATETIME	DATE	No	EXP_DATE
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Date/time that the record was expired from use.

TRAIL_SEGMENT_AND_FACILITY

List of facilities located on the Trail Segment. Associative Entity.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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TRAIL_SEGMENT_ID	NUMBER (13,0)	Yes	OBJECT_ID	
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System generated identifier, unique at the application level.

SITE_FACILITY_CODE	VARCHAR2 (3)	Yes	SITE_FAC_C	01, 02, 03, 04, 05, 06, ... (See SITE_FACILITY table)
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A code assigned to each Site Facility. eg. chalet, camp sites, drinking water, fire wood, garbage pick-up, electricity, parking, restrooms, telephone

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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Date/time the record was created or last modified in the source database.

TRAIL_SEGMENT_DETAIL

The details of a trail segment.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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TRAIL_ID	NUMBER (13,0)	Yes	TRAIL_ID
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System generated identifier, unique at the application level.

TRAIL_SEGMENT_ID	NUMBER (13,0)	Yes	TRLSEG_OID
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Primary Key value of the Wetland Entity.

TRAIL_USE_CODE	VARCHAR2 (3)	Yes	TRL_USE_C	ATV, CCS, CR, DS, H, HR, ... (See TRAIL_USE table)
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Code for the Trail Use.

USE_TYPE_CODE	VARCHAR2 (1)	No	USE_TYPE_C	C, R (See USE_TYPE table)
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Indication of whether the waterway is primarily used for commercial outfitting business purposes or purely recreational purposes eg. commercial, recreational

TRAIL_TYPE_CODE	VARCHAR2 (2)	No	TRL_TYPE_C	T, TC (See TRAIL_TYPE table)
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Type of trail this segment belongs to eg. TOPS (Trans-Ontario Provincial System), Trans-Canada trail. Different segments of a trail may have different types.

TRAIL_WIDTH_NUM	NUMBER (3,0)	No	WIDTH
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Width of recreation trail in metres.

DIFFICULTY_RATING_CODE	VARCHAR2 (1)	No	DIFF_C	1, 2, 3 (See DIFFICULTY_RATING table)
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Difficulty rating of site. eg. high, medium, low

HAZARDS	VARCHAR2 (2000)	No	HAZARDS
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A description of known trail hazards.

GROOMED_IND	VARCHAR2 (3)	No	GROOMED	Yes, No
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An indication of whether the trail is groomed regularly.

SNOWMAKING_IND	VARCHAR2 (3)	No	SNOWMAKING	Yes,No
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An indication of whether snowmaking facilities are available.

TRAIL_SEG_STATUS_CODE	VARCHAR2 (2)	No	STATUS_C	P, R, UR (See TRAIL_SEGMENT_STATUS table)
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Status of Trail Segment. eg. proposed, regulated, unregulated

PERMIT_REQ_IND	VARCHAR2 (3)	No	PERMIT_REQ	Yes,No
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Indication of whether a permit is required for the trail segment.

CONDITION_RATING_CODE	VARCHAR2 (1)	No	COND_RAT_C	1, 2, 3 (See CONDITION_RATING table)
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An indication of the condition of the site. eg. excellent, moderate, poor

CLASS_RATING_NUM	NUMBER (1,0)	No	CLS_RATING	
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Classification of the Canoe Route Water Segment by the Ontario Recreational Canoe Association.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
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Date/time the record was created or last modified in the source database.

TRAIL_SEGMENT_STATUS

List of valid Trail Segment Status Codes

Column Name	Column Type	Mandatory	Short Name	Valid Values
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TRAIL_SEG_STATUS_CODE	VARCHAR2 (2)	Yes	TRAIL_SEG_	
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Status of Trail Segment. eg. proposed, regulated, unregulated

TRAIL_SEG_STATUS_DESCR	VARCHAR2 (35)	Yes	TRAIL_SEG_	
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EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
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Date/time the record was created or last modified in the source database.

EXPIRY_DATETIME	DATE	No	EXP_DATE	
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Date/time that the record was expired from use.

TRAIL_TYPE

List of valid Trail Type Codes

Column Name	Column Type	Mandatory	Short Name	Valid Values
-------------	-------------	-----------	------------	--------------

TRAIL_TYPE_CODE	VARCHAR2 (2)	Yes	TRAIL_TYPE
------------------------	-----------------	-----	------------

Type of trail this segment belongs to eg. TOPS (Trans-Ontario Provincial System), Trans-Canada trail. Different segments of a trail may have different types.

TRAIL_TYPE_DESCR	VARCHAR2 (20)	Yes	TRAIL_TYPE
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Description of type of trail. e.g. Tops, Trans-Canada

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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Date/time the record was created or last modified in the source database.

EXPIRY_DATETIME	DATE	No	EXP_DATE
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Date/time that the record was expired from use.

TRAIL_USE

Use of a trail segment by a recognized trail.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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TRAIL_USE_CODE	VARCHAR2 (3)	Yes	TRAIL_USE_
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Code for the Trail Use.

TRAIL_USE_DESCR	VARCHAR2 (35)	Yes	TRAIL_USE_
------------------------	------------------	-----	------------

Description of the Trail Use.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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Date/time the record was created or last modified in the source database.

EXPIRY_DATETIME	DATE	No	EXP_DATE
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Date/time that the record was expired from use.

USE_TYPE

List of valid Use Type Codes

Column Name	Column Type	Mandatory	Short Name	Valid Values
-------------	-------------	-----------	------------	--------------

USE_TYPE_CODE	VARCHAR2 (1)	Yes	USE_TYPE_C
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Indication of whether the waterway is primarily used for commercial outfitting business purposes or purely recreational purposes eg. commercial, recreational

USE_TYPE_DESCR	VARCHAR2 (20)	Yes	USE_TYPE_D
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Description of the use type.

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
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Date/time the record was created or last modified in the source database.

EXPIRY_DATETIME	DATE	No	EXP_DATE
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Date/time that the record was expired from use.

LIO Lookup Table Values:

CONDITION_RATING

CONDITION RATING CODE	CONDITION RATING DESCR	EXPIRY DATETIME
1	Excellent	
2	Moderate	
3	Poor	

LIO Lookup Table Values:

DIFFICULTY_RATING

DIFFICULTY RATING CODE	DIFFICULTY RATING DESCR	EXPIRY DATETIME
1	High	
2	Medium	
3	Low	

LIO Lookup Table Values:
EXTERNAL_REF_TYPE_LIST

EXT REF TYPE CODE	EXT REF TYPE DESCR	EXPIRY DATETIME
ALPS	Aggregate Licence Permit Database	
AMIS	Abandoned Mines Database	
ARFIS	Algonquin Region Forest Database	
BCD	Biological and Conservation Database	
DTDB	Digital Topographic Database	
FISHARC	Fisheries Data Archive	
FISHLIB	Fisheries Information Library	
FRI	Forest Resources Inventory Database	
IF	Internal Filing	
LIS	Land Index System	
LUP	Land Use Permit	
NADB	Natural Areas Database	
NTDB	National Topographic Database	
NWEIMS	Wetland Evaluation Information Management Database (North)	
OBM	Ontario Base Map Database	
OFIS	Ontario Fisheries Information Database	
OLI	Ontario Land Inventory	
OPDS	Ontario Petroleum Database	
OTHER	Other External Reference	
PER	Permit	
RBT	Resource Based Tourism Licence	
SFMM	Sustainable Forest Management Model	
WEIMS	Wetland Evaluation Information Management Database (South)	
^	NRVIS 2.0 Data Conversion	1999-11-05

LIO Lookup Table Values:
FIRE_FUEL_CLASS_LIST

FUEL CLASS	EXPIRY DATETIME
Boreal Mixedwood - Green	
Boreal Mixedwood - Leafless	
Boreal Spruce	
Coastal Cedar-Hemlock-Douglas-fir S	
Conifer Plantation	
Dead Balsam Fir Mixedwood - Green	
Dead Balsam Fir Mixedwood - Leafles	
Grass	
Immature Jack or Lodgepole Pine	
Jack or Lodgepole Pine Slash	
Leafless Aspen	
Mature Jack or Lodgepole Pine	
Ponderosa Pine-Douglas-fir	
Red and White Pine	
Spruce-Lichen Woodland	
White Spruce-Balsam Slash	

LIO Lookup Table Values:

LOCATION ACCURACY	EXPIRY DATETIME
Not Applicable	
Over 10,000 metres	
Within 1 metre	
Within 10 metres	
Within 10,000 metres	
Within 100 metres	
Within 1000 metres	
Within 2 metres	
Within 20 metres	
Within 200 metres	
Within 2000 metres	
Within 5 metres	
Within 50 metres	
Within 500 metres	
Within 5000 metres	
AC Accurate (to 10m)	2007-01-12
AP Approximate (to 500m)	2007-01-12
GE General (to 10,000m)	2007-01-12
MO Moderate (to 1000m)	2007-01-12
RE Reliable (to 100m)	2007-01-12
VA Very Accurate (to 2m)	2007-01-12
VG Vague (to 100,000m)	2007-01-12
^ Data Load	2007-01-12

LIO Lookup Table Values:
LOCATION_OPERATOR_LIST

ROLE TYPE	ROLE TYPE DESCR	EXPIRY DATETIME
Affiliated With	This role type indicates that the related "from" Party (Individual or Group) has a relationship with the related "to" Party that is not more explicitly covered by another role type.	
Approver	This role type indicates that the related Party (Individual or Group) is one that has approved action associated with the related item. For example, if the related item is an Authority (License, permit, etc.) this would indicate the Party that approved the issuance of the Authority; if the related item is a Recommended Action this would indicate the Party that approved the initiation of the action; etc.	
Authority Holder	This role type indicates that the related Party (Individual or Group) is the one to which the Ministry has issued the related Authority (license, permit, etc.).	
Claim Holder	This role type indicates that the related Party (Individual or Group) is the one that is the registered owner of the related Mining Claim (area).	
Contact	This role type indicates that the related "from" Party (Individual or Group) is the designated point of contact for communication with the related "to" Party.	
Contractor	N/A	
Custodian	This role type indicates that the related Party (Individual or Group) is responsible for the care of the related Geographic Unit.	
Data Provider	This role type indicates that the related Party (Individual or Group) is the provider of a data source about the related Geographic Unit.	
Employee	This role type indicates that the related "from" Party (an Individual) is employed by the related "to" Party (a Group).	
Evaluator	This role type indicates that the related Party (Individual or Group) is the one who has evaluated the related Geographic Unit.	
Group Member	This role type indicates that the related "from" Party (Individual or Group) is a member of the related "to" Party (a Group). This could include membership in a Local Citizens Committee or a designated interest group.	
Information Holding Custodian	This role type indicates that the related Party (Individual or Group) is responsible for the storage and protection of the related Information Holding.	
Interested Party	This role type indicates that the related Party (Individual or Group) has a stated interest in a related Issue; or has a stated interest in plans and activities involving the related Geographic Unit.	
Issuer	This role type indicates that the related Party (Individual or Group)	

	LIO Lookup Table Values:	
	is one that has issued the related Authority (license, permit, etc.).	
Lease Holder	This role type indicates that the related Party (Individual or Group) has occupancy rights to the related Geographic Unit for the period and according to the terms of a lease agreement.	
Manager	This role type indicates that the related "from" Party (Individual or Group) manages or directs the activities of the related "to" Party (the "to" Party reports to or is accountable to the "from" Party); or manages the operation of the related Geographic Unit (e.g., a Tourism Establishment).	
Metadata Custodian	This role type indicates that the related Party (Individual or Group) is responsible for the storage and protection of the information ABOUT the related Information Holding. Note: There is a separate role type for the custodian of the information holding itself.	
Observer	This role type indicates that the related Party (Individual or Group) is the one who made the observations in the related Information Source.	
Operator	This role type indicates that the related Party (Individual or Group) operates the related Geographic Unit facility (e.g., Tourism Establishment, Mill).	
Owner	This role type indicates that the related Party (Individual or Group) owns the related Geographic Unit (e.g., Tourism Establishment).	
Partner	This role type indicates that the related "from" Party (Individual or Group) has a partnership arrangement with the related "to" Party.	
Steward	This role type indicates that the related "from" Party (Individual or Group) is responsible for assisting the Ministry with respect to the management of resources within the related Geographic Unit.	
Supervisor	This role type indicates that the related "from" Party (Individual or Group) supervises the activities of the related "to" Party.	

Verifier N/A

SITE_ACCESS_METHOD_LIST

SITE ACCESS METHOD	EXPIRY DATETIME
4x4 Vehicle	
ATV Vehicle	
Boat, Motorized	
Canoe	
Float Aircraft	
Foot	
Helicopter	
Railroad	
Road	
Wheeled Aircraft	

LIO Lookup Table Values:

LIO Lookup Table Values:

SITE_FACILITY

SITE FACILITY CODE	SITE FACILITY DESCR	EXPIRY DATETIME
01	Accommodations On Site	
02	All Year	
03	Beach	
04	Boat Rental	
05	Dump Tank	
06	Electrical Connections	
07	Firepits	
08	Flush Toilets	
09	Launch Ramp	
10	No Tents	
11	Playground	
12	Pool	
13	Reservations Not Accepted	
14	Seasonal	
15	Sewer Connections	
16	Showers	
17	Store	
18	Telephone	
19	Tennis	
20	Water Connections	
21	Wheelchair Accessible	
22	Warm Up Shack	
23	Privy	
24	Tent Pads	

LIO Lookup Table Values:

SOURCE_LIST

SOURCE NAME	SOURCE DATE	SOURCE ORIGINATOR	SOURCE SCALE	HORIZONTAL DATUM	VERTICAL DATUM	SOURCE PROJECTION	EXPIRY DATETIME
AFFM Provincial Administrative Maps		Ministry of Natural Resources	600000				
Aerial Photography		Ministry of Natural Resources	15840				
Aerial Survey							
Book/Publication							
CIR Photograpy		Ministry of Natural Resources					
City of Ottawa Borehole Database	1883 - 2006	City of Ottawa	Varies		Mean Average Sea Level	Geodetic and UTM	
Digital File							
Digital Map							
Field Survey\Site Visit							
File System/Filing Cabinet Information							
Forest Resources Inventory		Ministry of Natural Resources		NAD27		UTM	
GPS Data Collection							
Hard Copy/Paper Map							
IKONOS Multispectral		Ministry of Natural Resources					
IKONOS Panchromatic		Ministry of Natural Resources					
IRS Multispectral		Ministry of Natural Resources					
IRS Panchromatic		Ministry of Natural Resources					
IRS Pansharpened		Ministry of Natural Resources					

Landsat-1,2,3 MSS		Ministry of Natural Resources					
Landsat-4,5 MSS		Ministry of Natural Resources					
Landsat-7 ETM		Ministry of Natural Resources					
Local Borehole Drilling Program Results	2006	Ministry of Northern Development and Mines			Mean Average Sea Level		
Local Knowledge							
MNDM Assesment File							
MNDM Client/Company Information							
MNR Based Observation							
MTO Engineering Reports	Varies	Ministry of Transportation	Varies		Mean Average Sea Level		
NRCan - CanVec	2008	Natural Resources Canada	50000	NAD83			
NRCan - National Hydro Network	2008	Natural Resources Canada	50000	NAD83			
NTS Map 1:250000	1970 to 2003	Department of Natural Reosurces	250000	NAD27			
NTS Map 1:50000	1970 to 2003	Department of Natural Resources	50000	NAD27			
Ontario Base Map 1:10000	1978 to 1995	Ministry of Natural Resources	10000	NAD27		UTM	
Ontario Base Map 1:20000	1978 to 1995	Ministry of Natural Resources	20000	NAD27		UTM	
Ontario Geological Survey Fieldwork Mapping	Varies to 2004	Ontario Geological Survey	1:50,000	NAD83	Mean Average Sea Level	Universal Transvers Mercator	
Ontario Parcel				NAD83			
OrthoImagery		Ministry of Natural Resources					
Public Observation							

Quaternary Geology Study	Varies	Ministry of Northern Development and Mines			Mean Average Sea Level		
Unknown	11-12-02						
Urban Geology Automated Information System (UGAIS)	1956-1972	Geological Survey of Canada	Varies	NAD27	Mean Average Sea Level	Universal Transverse Mercator	
Water Well Data Improvement Project	2006	Ministry of Natural Resources, Water Resources Information Program	Varies	NAD83	Mean Average Sea Level	Geodetic	
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	
Waterloo Area Geology Automated Information System (WAGAIS)	1900 - 1977	Geological Survey of Canada	Varies	NAD27	Mean Average Sea Level	Universal Traverse Mercator	
External Source from NRVIS 2							2007-01-12
Internal Source from NRVIS 2							2007-01-12
Material Source from NRVIS 2							2007-01-12
Ontario Base Map	1978 to 1995	Ministry of Natural Resources		NAD27		UTM	2007-01-12
Source Observation from NRVIS 2							2007-01-12
Unknown Imagery							2007-01-12

LIO Lookup Table Values:
SURFACE_ENHANCEMENT

SURFACE ENHANCE CODE	SURFACE ENHANCE DESCR	EXPIRY DATETIME
B	Boardwalk	
G	Gravel	
P	Paved	
R	None	
SC	Stone Chips	
WC	Wood Chips	

LIO Lookup Table Values:

TRAIL_SEGMENT_STATUS

TRAIL SEG STATUS CODE	TRAIL SEG STATUS DESCR	EXPIRY DATETIME
P	Proposed	
R	Regulated	
UR	Unregulated	

LIO Lookup Table Values:

TRAIL_TYPE

TRAIL TYPE CODE	TRAIL TYPE DESCR	EXPIRY DATETIME
T	Tops	
TC	Trans-Canada Trail	

LIO Lookup Table Values:

TRAIL_USE

TRAIL USE CODE	TRAIL USE DESCR	EXPIRY DATETIME
ATV	All Terrain Vehicle	
CCS	Cross-Country Ski	
CR	Canoeing	
DS	Dog Sled	
H	Hiking	
HR	Horse Riding	
I	Interpretive	
MB	Mountain Bike	
POR	Portage	
S	Snowmobile	
SS	Snowshoeing	
T	Trapline	
^	Data Load	1996-09-13

LIO Lookup Table Values:

USE_TYPE

USE TYPE CODE	USE TYPE DESCR	EXPIRY DATETIME
C	Commercial	
R	Recreational	