

# Land Information Ontario Data Description

## OTN Trailhead

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# LIO Class Catalogue

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## OTN Trailhead

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**Class Short Name:** OTNTHD

**Version Number:** 1

**Class Description:**

The point at which the trail starts. A trailhead exists for each trail. A trail may consist of one or more trail segments.

**Abstract Class Name:** SPSPNT

**Abstract Class**

**Description:**

Spatial Single-Point: An object is represented by ONE and ONLY ONE point. Examples: A cabin, bird nest, tower.

**Tables in LIO Class:**  
**OTN Trailhead**

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**OTN\_TRAILHEAD\_FT**

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The point at which the trail starts. A trailhead exists for each trail. A trail may consist of one or more trail segments.

Column Name	Column Type	Mandatory	Short Name	Valid Values
<b>OGF_ID</b>	NUMBER (13,0)	Yes	OGF_ID	
A unique numeric provincial identifier assigned to each object.				
<b>TRAIL_NAME</b>	VARCHAR2 (200)	Yes	TRAIL_NAME	
The name that the trail is most commonly known as.				
<b>TRAIL_GROUPING</b>	VARCHAR2 (75)	No	GROUPING	Aaron Provincial Park, Abitibi-De-Troyes Provincial Park, Adam Creek Provincial Nature Reserve, Agassiz Peatlands Provincial Park, Albany River Provincial Park, Albert Lake Mesa Provincial Nature Reserve, ... (See OTN_TRAIL_GROUPING_LIST table)
Individual trails or organizations associated with a larger trail organization or association (ex. Bruce Trail, Voyageur Trail, Algonquin Park).				
<b>TRAIL_ASSOCIATION</b>	VARCHAR2 (100)	Yes	ASSOC	
The managing trail group that can be contacted regarding issues related to trail information, maintenance, operations, administration and problems on the trail.				
<b>TRAIL_ASSOCIATION_WEBSITE</b>	VARCHAR2 (200)	No	WEBSITE	
The URL for the trail association website address.				
<b>ACTIVITY</b>	VARCHAR2 (25)	Yes	ACTIVITY	Both, Motorized, Non-Motorized (See OTN_ACTIVITY_LIST table)
The activity permitted on a trail segment.				
<b>LENGTH_KMS</b>	NUMBER (6,1)	Yes	LENGTH_KMS	
The length as identified by the trail association or calculated by the sum of trail segment lengths. Measured in Kilometers.				
<b>DESCRIPTION</b>	VARCHAR2 (2000)	No	DESCRIPT	
Text providing details about something.				
<b>TRILLIUM_TRAIL_NETWORK_TYPE</b>	VARCHAR2 (25)	No	TRILLIUM_T	Blue Sector, Gold Sector, Green Sector (See OTN_TRILLIUM_NETWORK_TYPE_LIST table)
A classification system assigned by the Trillium Trail Network to trails. The Trillium Trail Network (TTN) represents an opportunity for trails to link together between regions and communities in Ontario. The TTN consists of Ontario Trail Council member trails registering their trail as a network member. Trails will: - Be readily accessible to communities along the TTN - Incorporate multi and single use trails - Can have both year-round and single season trails - Include trails of different lengths, topography, uses and locations				
<b>OFSC_TRAIL_DESIGNATION</b>	VARCHAR2 (10)	No	OFSC_DESIG	Club, Connector, Feeder, Trunk (See OTN_OFSC_TRAIL_DESIG_LIST)

table)

Name of the trail designation as defined by the OFSC Ontario Federation of Snowmobile Clubs.

<b>ORCKA_SWIFTWATER_CLASS</b>	VARCHAR2 (15)	No	ORCKA_CLAS	Class I, Class II, Class III, Class IV, Class V, Class VI (See OTN_ORCKA_SWIFTWATER_LIST table)
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A classification of the water defined by the Ontario Recreational Canoeing and Kayaking Association. Defined by international categories of swiftwater for determining moving water. Applies to trails on open water only (canoe routes).

<b>UNESCO_WORLD_HERITAGE_SITE_IND</b>	VARCHAR2 (3)	No	UNESCO	Yes, No
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Indicates the trail is designated as a United Nations Educational, Scientific and Cultural Organization (UNESCO) site for the identification, protection and preservation of cultural and natural heritage of outstanding value to humanity.

<b>SIGNAGE_IND</b>	VARCHAR2 (3)	No	SIGNAGE	Yes, No
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Indicates whether signage exists on trails or not.

<b>ENVIRONMENTAL_CONCERNS</b>	VARCHAR2 (2000)	No	ENVIRON	
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A Description of known Environmental concerns.

<b>HAZARD_COMMENT</b>	VARCHAR2 (2000)	No	HAZARD_COM	
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Unstructured description, additional notes, or further explanation regarding sources of danger at a feature.

<b>MIN_WIDTH_CLEARANCE_METERS</b>	NUMBER (3,1)	No	MIN_WIDTH	
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The minimum width of the trail. This is critical for people who use mobility devices such as strollers, walkers and wheelchairs. The average manual wheelchair has a wheelbase width of less than 28 inches(0.71 meters). If a trail narrows to 26 inches (0.66 meters), persons in a 28-inch wheelchair will know that they will not be able to venture past this point unless they are capable of transferring out of their chair and maneuvering their chair through this narrow location. Equestrians are another example of trail users that require a specific width, depending on the size of the horse. Defined in meters.

<b>MIN_VERTICAL_CLEARANCE_METERS</b>	NUMBER (3,1)	No	MIN_VERTIC	
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The minimum height above the trail that is free from protruding objects and overhead obstructions, such as tree branches and bridges. Measured in meters.

<b>MAX_GRADE</b>	NUMBER (4,1)	No	MAX_GRADE	
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The maximum grade of the trail. Grade is defined as the maximum percent grade of rise (ascent) or fall (descent) of the slope of the trail tread parallel to the path of travel. Calculated as "vertical distance/horizontal distance".

<b>MAX_CROSS_SLOPE</b>	NUMBER (3,1)	No	MAX_SLOPE	
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The maximum cross slope on the trail. Cross slope is the average elevation change from one side of the trail across to the other side, measured at a right angle to the path of travel.

<b>OTC_TRAIL_CHALLENGE</b>	VARCHAR2 (25)	No	OTC_CHALL	Challenging, Easy, Extreme, Moderate, Other (See OTN_OTC_TRAIL_CHALLENGE_LIST table)
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The difficulty of the trail, defined by the Ontario Trails Council. Defined by the maximum trail challenge over the length of the trail.

<b>STRUCTURE_DESCR</b>	VARCHAR2 (250)	No	STRUCT_D	
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A description of the trail structure.

<b>MAX_POSTED_SPEED_LIMIT_KMH</b>	NUMBER	No	MAX_SPEED	
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(3,0)

Posted speed limit that is different from the Trail default. For a shared use trail, where there are different speed limits for different modes of transportation, the maximum posted speed limit will be recorded. Measured in kilometers per hour.

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<b>LOCATION_ACCURACY</b>	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)
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The degree of conformity or closeness of a measurement within the database to its true value in the world.

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<b>LOCATION_DESCR</b>	VARCHAR2 (2000)	No	LOC_DES	
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Description of the area or directions on how to get to the site.

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

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

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### **CLASS\_ALIAS\_NAME**

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

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

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<b>LOCAL_NAME</b>	VARCHAR2 (75)	Yes	LOCAL_NAME	
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Local name of geographic unit.

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

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

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

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### **CLASS\_DATABASE\_REFERENCE**

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

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

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<b>INTERNAL_EXTERNAL_FLG</b>	VARCHAR2 (10)	Yes	INT_EXT	Internal, External
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A flag indicating if the database being referenced is internal (NRVIS/LIO) or external.

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<b>DATABASE_REFERENCE_IDENT</b>	VARCHAR2	Yes	IDENT	
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(50)

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

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<b>CLASS_SHORT_NAME</b>	VARCHAR2 (8)	Yes	CLASS_NAME
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Static short name that will be used by for the concrete class.

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<b>DATABASE_REFERENCE_DETAIL</b>	VARCHAR2 (2000)	No	DETAIL
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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.

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<b>RELATED_CLASS_SHORT_NAME</b>	VARCHAR2 (8)	No	CLASS_NAME
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The static short name that is used by the related concrete class.

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<b>EXT_REF_TYPE_CODE</b>	VARCHAR2 (8)	No	EXT_TYPE
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The type of external database that the identifier pertains to e.g. LUPS, LIS, etc.

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<b>TYPE_OTHER_DESCR</b>	VARCHAR2 (60)	No	OTH_DESCR
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A full description of the type when set to "other".

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

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### **CLASS\_JUSTIFICATION**

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

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

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<b>JUSTIFICATION_REASON</b>	VARCHAR2 (2000)	Yes	REASON
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Reason for justification of the existence of a geographic feature.

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

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<b>JUSTIFICATION_DATE</b>	DATE	Yes	JUSTIF_DT
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Date that the geographic feature was justified.

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

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### **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.

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

<b>FIELD_NAME</b>	VARCHAR2 (30)	Yes	FIELD_NAME
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The attribute name for the information.

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

<b>FIELD_TYPE</b>	VARCHAR2 (8)	Yes	FIELD_TYPE	String, Integer, Double
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The type of field.

<b>FIELD_VALUE_STRING</b>	VARCHAR2 (50)	No	VALUE_S
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A field used to store character strings.

<b>FIELD_VALUE_INTEGER</b>	NUMBER (5,0)	No	VALUE_I
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A field used to store integer values (small numbers).

<b>FIELD_VALUE_DOUBLE</b>	NUMBER (10,3)	No	VALUE_D
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A field used to store decimal data with up to two decimals.

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

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## **CLASS\_PARTY\_ROLE**

A link to an external contact database.

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

<b>PARTY_IDENT</b>	VARCHAR2 (25)	Yes	PARTY_ID
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An identifier for a party (group or individual). It should reference an identifier in an external 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.).

<b>PARTY_DATABASE</b>	VARCHAR2 (100)	Yes	PARTY_DB
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The database that contains the party information.

<b>ROLE_TYPE</b>	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.

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

<b>ROLE_DETAIL</b>	VARCHAR2 (200)	No	DETAIL
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Additional details about the role.

<b>START_DATE</b>	DATE	No	START_DATE
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The date when a Party starts to play a Role.

<b>END_DATE</b>	DATE	No	END_DATE
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The date when a Party ceases to play a Role.

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

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## **CLASS\_SOURCE**

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Intersection table between the data class and Source List table.

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

<b>SOURCE_NAME</b>	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.

<b>SOURCE_DETAIL</b>	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.

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

<b>SOURCE_DESCR</b>	VARCHAR2 (2000)	No	SOURCE_DES	
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Text providing details about the source.

<b>METHOD_DESCR</b>	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.

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

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

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## **CLASS\_SUPPORTING\_MATERIAL**

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

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

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

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<b>MATERIAL_LOCATION</b>	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.

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

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<b>URL_ENG</b>	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.

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<b>URL_FRE</b>	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.

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

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### EXTERNAL\_REF\_TYPE\_LIST

List of valid EXTERNAL\_REFERENCE\_TYPE codes.

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Column Name	Column Type	Mandatory	Short Name	Valid Values
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<b>EXT_REF_TYPE_CODE</b>	VARCHAR2 (8)	Yes	EXT_REF_TY
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The type of external database that the identifier pertains to e.g. LUPS, LIS, Other.

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<b>EXT_REF_TYPE_DESCR</b>	VARCHAR2 (60)	Yes	EXT_REF_TY
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Description of the type of external reference.

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

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

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### LOCATION\_ACCURACY\_LIST

List of valid LOCATION\_ACCURACYs.

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Column Name	Column Type	Mandatory	Short Name	Valid Values
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<b>LOCATION_ACCURACY</b>	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.

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

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

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### OTN\_ACTIVITY\_LIST

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List of valid OTN ACTIVITIES.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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<b>ACTIVITY</b>	VARCHAR2 (25)	Yes	ACTIVITY
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The activity permitted on a trail segment.

<b>DESCRIPTION</b>	VARCHAR2 (2000)	Yes	DESCRIPTIO
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A description of an inspection findings.

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

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

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### OTN\_AMENITY\_LIST

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List of valid OTN AMENITIES.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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<b>AMENITY</b>	VARCHAR2 (50)	Yes	AMENITY
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Features located on trail, includes infrastructure, signage, reservation information etc.

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

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

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### OTN\_OFSC\_TRAIL\_DESIG\_LIST

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Lookup table for Ontario Federation of Snowmobile Club designation.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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<b>OFSC_TRAIL_DESIGNATION</b>	VARCHAR2 (10)	Yes	OFSC_DESIG
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Name of the trail designation as defined by the OFSC Ontario Federation of Snowmobile Clubs.

<b>DESCRIPTION</b>	VARCHAR2 (2000)	Yes	DESCRIPTIO
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The description of Ontario Federation of Snowmobile Club names.

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

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

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## OTN\_ORCKA\_SWIFTWATER\_LIST

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Lookup table for Ontario Recreational Canoe and Kayak Association swiftwater classification system.

Column Name	Column Type	Mandatory	Short Name	Valid Values
<b>ORCKA_SWIFTWATER_CLASS</b>	VARCHAR2 (15)	Yes	ORCKA_CLAS	
A classification of the water defined by the Ontario Recreational Canoeing and Kayaking Association. Defined by international categories of swiftwater for determining moving water. Applies to trails on open water only (canoe routes).				
<b>DESCRIPTION</b>	VARCHAR2 (300)	Yes	DESCRIPTIO	
The description of the Ontario Recreational Canoe and Kayaking Association swiftwater classifications. Defined by international categories of swiftwater for determining moving water. Applies to trails on open water only. (Canoe routes).				
<b>EFFECTIVE_DATETIME</b>	DATE	Yes	EFF_DATE	
Date/time the record was created or last modified in the source database.				
<b>EXPIRY_DATETIME</b>	DATE	No	EXP_DATE	
Date/time that the record was expired from use.				

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## OTN\_OTC\_TRAIL\_CHALLENGE\_LIST

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Lookup table for Ontario Trails Council Trail Challenge categories.

Column Name	Column Type	Mandatory	Short Name	Valid Values
<b>OTC_TRAIL_CHALLENGE</b>	VARCHAR2 (25)	Yes	OTC_CHALL	
The difficulty of the trail, defined by the Ontario Trails Council. Defined by the maximum trail challenge over the length of the trail.				
<b>DESCRIPTION</b>	VARCHAR2 (2000)	Yes	DESCRIPTIO	
The description of the Ontario Trail Council Challenge Name Classification. The OTC Challenge is a difficulty rating defined by the council.				
<b>EFFECTIVE_DATETIME</b>	DATE	Yes	EFF_DATE	
Date/time the record was created or last modified in the source database.				
<b>EXPIRY_DATETIME</b>	DATE	No	EXP_DATE	
Date/time that the record was expired from use.				

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## OTN\_OTC\_TRAIL\_CHARACTER

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Information related to the trail character.

Column Name	Column Type	Mandatory	Short Name	Valid Values
<b>OTN_TRAILHEAD_ID</b>	NUMBER (13,0)	Yes	TRAIL_ID	
A unique numeric provincial identifier (FMF Object Id).				
<b>OTC_TRAIL_CHARACTER</b>	VARCHAR2 (15)	Yes	OTC_CHAR	Historic, Natural, Rail Trail, Scenic, Urban, Water (See OTN_OTC_TRAIL_CHARACTER_LIST table)
The trail character as defined by the Ontario Trails Council. e.g. Historic, Urban, Natural.				

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**EFFECTIVE\_DATETIME** DATE Yes EFF\_DATE

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

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### OTN\_OTC\_TRAIL\_CHARACTER\_LIST

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Lookup table for Ontario Trails Council Character categories.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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<b>OTC_TRAIL_CHARACTER</b>	VARCHAR2 (15)	Yes	OTC_CHAR	
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The trail character as defined by the Ontario Trails Council. e.g. Historic, Urban, Natural.

<b>DESCRIPTION</b>	VARCHAR2 (2000)	Yes	DESCRIPTIO	
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The description associated with the OTC Trail Character Name. The character of the trail defined by the Ontario Trails Council.

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

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

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### OTN\_PERMITTED\_USE\_LIST

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List of valid OTN PERMITTED\_USEs.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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<b>PERMITTED_USE</b>	VARCHAR2 (100)	Yes	PERM_USE	
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Use permitted on the trail segment. Examples include skiing, hiking etc.

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

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

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### OTN\_TRAILHEAD\_AND\_TRAIL\_SEG

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Index table for many to many relationship between trail segment and trailhead.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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<b>OTN_TRAIL_SEGMENT_ID</b>	NUMBER (13,0)	Yes	SEGMENT_ID	
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Unique ID for Trail Segment.

<b>OTN_TRAILHEAD_ID</b>	NUMBER (13,0)	Yes	TRAIL_ID	
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Unique ID for Trailhead.

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

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### OTN\_TRAIL\_ACCESS\_POINT

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Locations through which a trail can be accessed.

Column Name	Column	Mandatory	Short Name	Valid Values
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### Type

<b>OGF_ID</b>	NUMBER (13,0)	Yes	OGF_ID
A unique numeric provincial identifier assigned to each object.			
<b>OTN_TRAILHEAD_ID</b>	NUMBER (13,0)	Yes	TRAIL_ID
A unique numeric provincial identifier (FMF Object Id).			
<b>LATITUDE</b>	NUMBER (10,7)	Yes	LATITUDE
The latitude in decimal degrees. For example: 50.1234567			
<b>LONGITUDE</b>	NUMBER (10,7)	Yes	LONGITUDE
The longitude in decimal degrees. Note that all longitude values in the Western Hemisphere will be negative. For example: -85.1234567			
<b>EFFECTIVE_DATETIME</b>	DATE	Yes	EFF_DATE
Date/time the record was created or last modified in the source database.			

### OTN\_TRAIL\_AMENITY

Amenities located at a trail point.

Column Name	Column Type	Mandatory	Short Name	Valid Values
<b>OTN_TRAILHEAD_ID</b>	NUMBER (13,0)	Yes	TRAIL_ID	
Unique ID for Trailhead.				
<b>AMENITY</b>	VARCHAR2 (50)	Yes	AMENITY	Beach, Bicycle Rental, Boat Launch, Camping, Designated Rest Areas, Dogs Permitted off a Leash, ... (See OTN_AMENITY_LIST table)
Features located on trail, includes infrastructure, signage, reservation information etc.				
<b>EFFECTIVE_DATETIME</b>	DATE	Yes	EFF_DATE	
Date/time the record was created or last modified in the source database.				

### OTN\_TRAIL\_GROUPING\_LIST

Look up table listing high level trail grouping for a trailhead.

Column Name	Column Type	Mandatory	Short Name	Valid Values
<b>TRAIL_GROUPING</b>	VARCHAR2 (75)	Yes	GROUPING	
Individual trails or organizations associated with a larger trail organization or association (ex. Bruce Trail, Voyageur Trail, Algonquin Park).				
<b>EFFECTIVE_DATETIME</b>	DATE	Yes	EFF_DATE	
Date/time the record was created or last modified in the source database.				
<b>EXPIRY_DATETIME</b>	DATE	No	EXP_DATE	
Date/time that the record was expired from use.				

### OTN\_TRAIL\_OPERATIONAL\_SEASON

Information related to the trails operational season and hours of operation.

Column Name	Column Type	Mandatory	Short Name	Valid Values
<b>OGF_ID</b>	NUMBER (13,0)	Yes	OGF_ID	
A unique numeric provincial identifier assigned to each object.				
<b>OTN_TRAILHEAD_ID</b>	NUMBER (13,0)	Yes	TRAIL_ID	
Unique ID for Trailhead.				
<b>OPERATIONAL_SEASON</b>	VARCHAR2 (10)	No	SEASON	Spring, Summer, Fall, Winter, Annual
A description of the season of operations for the trail. Permissible values: Spring, Summer, Fall, Winter, Annual				
<b>OPENING_DATE</b>	DATE	No	OPENING_DT	
The date when the trail opens.				
<b>CLOSING_DATE</b>	DATE	No	CLOSING_DT	
The date when the trail closes.				
<b>OPERATIONAL_DAYS</b>	VARCHAR2 (100)	No	DAYS	
List of days that the trail is operational.				
<b>HOURS_OF_OPERATION</b>	VARCHAR2 (100)	No	HOURS	
Hours of operation. Opening time to closing time. Described using either time stamps or a description (sunrise to sunset).				
<b>FEES</b>	VARCHAR2 (30)	No	FEES	None, Day Pass, Season Pass, Annual Pass, Donation, Reservations Required, Other
A description of whether the trail requires any fees. Fees may include permitting or admission. Permissible values: None, Day Pass, Season Pass, Annual Pass, Donation, Reservations Required, Other.				
<b>EFFECTIVE_DATETIME</b>	DATE	Yes	EFF_DATE	
Date/time the record was created or last modified in the source database.				

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**OTN\_TRAIL\_PERMITTED\_USE**

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The permitted uses on a trail.

Column Name	Column Type	Mandatory	Short Name	Valid Values
<b>OTN_TRAILHEAD_ID</b>	NUMBER (13,0)	Yes	TRAIL_ID	
Unique ID for Trailhead.				
<b>PERMITTED_USE</b>	VARCHAR2 (100)	Yes	PERM_USE	All-terrain vehicles (ATV), Canoeing or paddling, Cycling - offroad or mountain, Cycling - road or path, Dog sledding, Equestrian, ... (See OTN_PERMITTED_USE_LIST table)
Use permitted on the trail segment. Examples include skiing, hiking etc.				
<b>EFFECTIVE_DATETIME</b>	DATE	Yes	EFF_DATE	

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

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## OTN\_TRILLIUM\_NETWORK\_TYPE\_LIST

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Lookup table for Trillium Trail Network classifications for trails.

Column Name	Column Type	Mandatory	Short Name	Valid Values
<b>TRILLIUM_TRAIL_NETWORK_TYPE</b>	VARCHAR2 (25)	Yes	TRILLIUM_T	

A classification system assigned by the Trillium Trail Network to trails. The Trillium Trail Network (TTN) represents an opportunity for trails to link together between regions and communities in Ontario. The TTN consists of Ontario Trail Council member trails registering their trail as a network member. Trails will:  
- Be readily accessible to communities along the TTN  
- Incorporate multi and single use trails  
- Can have both year-round and single season trails  
- Include trails of different lengths, topography, uses and locations

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<b>DESCRIPTION</b>	VARCHAR2 (2000)	Yes	DESCRIPTIO	
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The description of Trillium Trail Network codes. The Trillium Trail Network represents an opportunity for trails to link together between regions and communities in Ontario. The TTN consists of Ontario Trail Council member trails registering their trail as a network member.

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

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

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## ROLE\_TYPE\_LIST

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List of valid party role types.

Column Name	Column Type	Mandatory	Short Name	Valid Values
<b>ROLE_TYPE</b>	VARCHAR2 (50)	Yes	ROLE_TYPE	

The role that an organization or an individual plays.

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<b>ROLE_TYPE_DESCR</b>	VARCHAR2 (2000)	Yes	DESCR	
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Description of Role Type.

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

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

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## SOURCE\_LIST

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A description of the source information that is the basis for creating or changing information about a geographic feature. It 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
<b>SOURCE_NAME</b>	VARCHAR2 (100)	Yes	NAME	

The name of the source.

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<b>SOURCE_DATE</b>	VARCHAR2 (50)	No	SRC_DATE	
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The date of the source.

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<b>SOURCE_ORIGINATOR</b>	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)

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<b>SOURCE_SCALE</b>	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.

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<b>HORIZONTAL_DATUM</b>	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.

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<b>VERTICAL_DATUM</b>	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.

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<b>SOURCE_PROJECTION</b>	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.

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

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

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**LIO Lookup Table Values:**  
**EXTERNAL\_REF\_TYPE\_LIST**

<b>EXT REF TYPE CODE</b>	<b>EXT REF TYPE DESCR</b>	<b>EXPIRY DATETIME</b>
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:**  
**LOCATION\_ACCURACY\_LIST**

<b>LOCATION ACCURACY</b>	<b>EXPIRY DATETIME</b>
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:**

**OTN\_ACTIVITY\_LIST**

<b>ACTIVITY</b>	<b>DESCRIPTION</b>	<b>EXPIRY DATETIME</b>
Both	Access to Non-Motorized and Motorized Users.	
Motorized	Available for ATV's, Off-Road Motorcycles, and snowmobiling.	
Non-Motorized	Restrict motorized uses of a trail to all but wheel chairs, emergency access vehicles and vehicles with special permission.	

**LIO Lookup Table Values:**

**OTN\_AMENITY\_LIST**

<b>AMENITY</b>	<b>EXPIRY DATETIME</b>
Beach	
Bicycle Rental	
Boat Launch	
Camping	
Designated Rest Areas	
Dogs Permitted off a Leash	
Dogs Permitted on a Leash	
Equestrian Amenities	
Fire Pits	
First Aid Facilities	
Lighting	
Lookout	
Other	
Parking	
Picnic Areas	
Potable Drinking Water	
Self Guiding Interpretive Trail	
Ski Rental	
Store	
Telephone	
Tower	
Visitor Centre	
Warm Up Shack	
Washrooms	
Watercraft Rental	

LIO Lookup Table Values:

**OTN\_OFSC\_TRAIL\_DESIG\_LIST**

<b>OFSC TRAIL DESIGNATION</b>	<b>DESCRIPTION</b>	<b>EXPIRY DATETIME</b>
Club	Club trails are all other Snowmobile Trails maintained by the Club. Club trails are NOT TOPS Trails. Club trails provide access to local communities or services. Club trails are sanctioned and maintained to the same standards as TOPS Trails.	
Connector	Connector trails link one Trunk Trail to another. They are designated by a one letter - three digit number - one letter combination (e.g. "A101D") where the letters indicate which two trunk Trails are being connected. Connector Trails are TOPS trails.	
Feeder	Feeder trails feed traffic to Trunk Trails. These routes are designated by a letter and a 3-digit number (e.g. "C112"), where the letter indicates the Trunk Trail to which the trail leads. Feeder trails are TOPS trails.	
Trunk	Trunk trails are the main routes for trans-provincial touring. They are designated by a single letter of the alphabet (e.g. "A") and are colour coded RED. Trunk trails are TOPS trails	

LIO Lookup Table Values:

**OTN\_ORCKA\_SWIFTWATER\_LIST**

<b>ORCKA SWIFTWATER CLASS</b>	<b>DESCRIPTION</b>	<b>EXPIRY DATETIME</b>
Class I	Moving water with a few riffles and small waves. Few or no obstructions.	
Class II	Easy rapids with waves up to one meter high and wide, clear channels that are obvious without scouting. Some manoeuvring is required	
Class III	Rapids with high, irregular waves often capable of swamping an open canoe. Narrow passages that often require complex manoeuvring. May require scouting from shore.	
Class IV	Long, difficult rapids with constricting passages that require precise manoeuvring in very turbulent waters. Scouting from shore is necessary, and conditions make rescue difficult. Not possible for open canoes. Boaters need ability to Eskimo roll.	
Class V	Extremely difficult, long and very violent rapids with highly congested routes, always should be scouted from shore. Rescue is difficult, significant hazard to life in the event of a mishap. Ability to Eskimo roll essential, unsuitable for open canoes.	
Class VI	Difficulties for Class V carried to the extreme of navigability. Nearly impossible and very dangerous. For teams of experts only, after a close study has been made and all precautions have been taken. Unsuitable for open canoes.	

LIO Lookup Table Values:

**OTN\_OTC\_TRAIL\_CHALLENGE\_LIST**

OTC TRAIL CHALLENGE	DESCRIPTION	EXPIRY DATETIME
Challenging	A trail system with a range of characteristics that are suitable for most in good physical condition. The nature of the trail requires steep climbing or covering long distances over a variety of land and water terrain.	
Easy	A trail system with a range of geographical and physical characteristics suitable for all ages and states of physical condition.	
Extreme	Rock or ice climbing, challenging whitewater, downhill/cross country/aggressive off-road cycling.	
Moderate	A trail system with a range of characteristics suitable for the majority of individuals of all ages that practice a regular, active physical life style; in some cases individuals may require special equipment such as hiking boots.	
Other	Other	

LIO Lookup Table Values:

**OTN\_OTC\_TRAIL\_CHARACTER\_LIST**

<b>OTC TRAIL CHARACTER</b>	<b>DESCRIPTION</b>	<b>EXPIRY DATETIME</b>
Historic	A single or multi-use trail system, located in either an urban or rural area, that has been recognized for its historical, cultural or heritage character related to human settlement.	
Natural	A single or multi-use rural trail system, located within a natural environment.	
Rail Trail	A single or multi-use trail system composed of abandoned railway rights-of-way converted to trails.	
Scenic	A single or multi-use trail system within a rural setting having notable and scenic significance in a natural environment removed from a large population that has been recognized by independent third parties.	
Urban	A single or multi-use trail system within an urban or municipal setting primarily serving the residents of a community.	
Water	A canoeing or kayak trail system, with or without portaging, located in either an urban or rural area.	



**LIO Lookup Table Values:**  
**OTN\_PERMITTED\_USE\_LIST**

<b>PERMITTED USE</b>	<b>EXPIRY DATETIME</b>
All-terrain vehicles (ATV)	
Canoeing or paddling	
Cycling - offroad or mountain	
Cycling - road or path	
Dog sledding	
Equestrian	
Hiking and Walking	
Kayaking	
Nordic and cross country skiing	
Offroad motorcycle	
Other	
Portage	
Running	
Snowmobiling	
Snowshoeing and backcountry skiing	
Snowshoeing	

**LIO Lookup Table Values:**  
**OTN\_TRAIL\_GROUPING\_LIST**

TRAIL GROUPING	EXPIRY DATETIME
Aaron Provincial Park	
Abitibi-De-Troyes Provincial Park	
Adam Creek Provincial Nature Reserve	
Agassiz Peatlands Provincial Park	
Albany River Provincial Park	
Albert Lake Mesa Provincial Nature Reserve	
Alexander Lake Forest Provincial Park	
Alexander Stewart Provincial Park	
Algoma Headwaters Provincial Park	
Algonquin Provincial Park	
Amable du Fond Provincial Park	
Arrow Lake Provincial Park	
Arrowhead Peninsula Provincial Nature Reserve	
Arrowhead Provincial Park	
Aubinadong River Provincial Park	
Aubinadong-Nushatogaini Rivers Provincial Park	
Aubrey Falls Provincial Park	
Ausable Bayfield Conservation Authority	
Awenda Provincial Park	
Balsam Lake Provincial Park	
Barron River Provincial Park	
Bass Lake Provincial Park	
Batchawana Provincial Park	
Batchawana River Provincial Park	
Bayview Escarpment Provincial Nature Reserve	
Beattie Pinery Provincial Park	
Bell Bay Provincial Park	
Big East River Provincial Park	

Bigwind Lake Provincial Park	
Biscotasi Lake Provincial Park	
Bissett Creek Provincial Park	
Black Creek Provincial Park	
Black Sturgeon River Provincial Park	
Blind River Provincial Park	
Blue Jay Creek Provincial Park	
Blue Lake Provincial Park	
Bon Echo Provincial Park	
Bonheur River Kame Provincial Nature Reserve	
Bonnechere Provincial Park	
Bonnechere River Provincial Park	
Boyne Valley Provincial Park	
Brightsand River Provincial Park	
Bronte Creek Provincial Park	
Bruce Peninsula National Park	
Bruce Trail	
Burnt Lands Provincial Park	
Butler Lake Provincial Nature Reserve	
Cabot Head Provincial Nature Reserve	
Caliper Lake Provincial Park	
Carson Lake Provincial Park	
Castle Creek Provincial Nature Reserve	
Cataraqui Region Conservation Authority	
Catfish Creek Conservation Authority	
Cavern Lake Provincial Nature Reserve	
Centennial Lake Provincial Nature Reserve	
Central Lake Ontario Conservation Authority	
Chapleau-Nemegosenda River Provincial Park	
Charleston Lake Provincial Park	
Chiniguchi Waterway Provincial Park	
Chutes Provincial Park	

Conservation Halton	
Coral Rapids Provincial Nature Reserve	
Craig's Pit Provincial Nature Reserve	
Craikleith Provincial Park	
Cranberry Lake Provincial Nature Reserve	
Credit Valley Conservation	
Crow Valley Conservation Authority	
Daisy Lake Uplands Provincial Park	
Dana-Jowsey Lakes Provincial Park	
Darlington Provincial Park	
Devil's Glen Provincial Park	
Devon Road Mesa Provincial Nature Reserve	
Divide Ridge Provincial Park	
Dividing Lake Provincial Park	
Driftwood Provincial Park	
Duclos Point Provincial Nature Reserve	
Duncan Escarpment Provincial Nature Reserve	
Eagle-Dogtooth Provincial Park	
Earl Rowe Provincial Park	
East English River Provincial Park	
East Sister Island Provincial Nature Reserve	
Edward Island Provincial Nature Reserve	
Egan Chutes Provincial Nature Reserve	
Emily Provincial Park	
Englehart River Fine Sand Plain and Waterway Provincial Park	
Esker Lakes Provincial Park	
Essex Region Conservation Authority	
Fairbank Provincial Park	
Fawn River Provincial Park	
Ferris Provincial Park	
Finlayson Point Provincial Park	
Fish Point Provincial Nature Reserve	

Fitzroy Provincial Park	
Five Mile Lake Provincial Park	
Forks of the Credit Provincial Park	
Foy Property Provincial Park	
Fraleigh Lake Provincial Nature Reserve	
Frederick House Lake Provincial Nature Reserve	
French River Provincial Park	
Frontenac Provincial Park	

\* Not a complete list.

LIO Lookup Table Values:

**OTN\_TRILLIUM\_NETWORK\_TYPE\_LIST**

<b>TRILLIUM TRAIL NETWORK TYPE</b>	<b>DESCRIPTION</b>	<b>EXPIRY DATETIME</b>
Blue Sector	Will comprise TDMO's developing and/or maintaining water (and land used for portage) trails for travel primarily by canoes, kayaks and other self-powered vehicles. Mandatory fees for use of trails may or may not be charged.	
Gold Sector	Will comprise TDMO's developing and/or maintaining land-based trails requiring a mandatory use fee and primarily used for assisted travel by ATV, motorcycle, snowmobile and other forms of off-road vehicles, horseback, dog sled or bicycle.	
Green Sector	Will comprise TDMO's developing and/or maintaining land based trails free of mandatory trail use fees to permitted users where motorized uses are not typically permitted.	

## LIO Lookup Table Values:

### ROLE\_TYPE\_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)	

	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	



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