

Land Information Ontario Data Description

Tile Drainage Area

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LIO Class Description

Tile Drainage Area

Class Short Name: TILEDRNA

Version Number: 3

Class Description:

Captures the location of fields that have had tile drainage installed. It describes the type of tile installation (Random or Systematic) as well as other information that is captured on the Tile Drainage Record.

Abstract Class Name: SPMNTUREGION

Abstract Class

Description:

Spatial Multi-Non-Tessellating-Unconstrained Region: An object is represented by ONE or MORE polygons. Polygons MAY overlap WITHOUT any restrictions. HOLES within and GAPS between polygons ARE allowed. Example: Forest "Insect Damage Area". Mapped "Spruce Budworm" defoliated areas may overlap "Forest Tent Caterpillar" damaged areas. Likewise, mapped "Gypsy Moth" tree mortality areas may overlap mapped other "Gypsy Moth" defoliated areas from current and previous years.

Metadata URL:

Tables in LIO Class:

Tile Drainage Area

TILE_DRAINAGE_AREA_FT

A feature that identifies where drainage tiles are located in a field.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER(13,0)	Yes	OGF_ID	
Ontario Geospatial Feature Identifier (OGF ID). A system generated identifier assigned to every feature record, unique at the application level.				
TILE_SYSTEM_TYPE	VARCHAR2(10)	Yes	SYSTEM_T	'Random', 'Systematic'
The type of tile drainage system installed in a field. Potential entries include: a) Systematic - the area has been cross-hatched in a regular pattern b) Random - tiles have been installed where needed (for example to drain a wet spot in a field)				
JOB_NUMBER	VARCHAR2(25)	No	JOB_NUMBER	
A number corresponding to the tile drainage record or digital file. It is assigned by the Ontario Ministry of Agriculture and Food.				
NEW_TILE_SYSTEM_IND	VARCHAR2(3)	No	NEW_SYSTEM	'Yes', 'No'
An indicator if this is a new tile system (i.e. no tile drainage existed in this area before). If it is No, it can be assumed that the tile system is an Improved System (i.e. the tile distribution has been changed from random to systematic or additions have been made to existing systematic or random tiling).				
YEAR_OF_INSTALLATION	NUMBER(4,0)	No	YR_INSTALL	
The year when the tile drainage was installed.				
TILE_CONTRACTOR_NAME	VARCHAR2(50)	No	CONT_NAME	
The name of the contractor who installed the tile.				
TILE_CONTRACTOR_LICENCE_NUMBER	VARCHAR2(10)	No	CONT_LICEN	
The alphanumeric licence number of the contractor who installed the tile drainage system e.g. "DB2003".				
AREA_TILED_ACRES	NUMBER(8,2)	No	AREA_ACRES	
The area of land that has tile drainage installed measured in acres. This is the area where tiles are installed/buried and not the potential area that the tiles may drain.				
AREA_TILED_HECTARES	NUMBER(7,2)	No	AREA_HA	
The area of land that has tile drainage installed measured in hectares. This is the area where tiles are installed/buried and not the potential area that the tiles may drain.				
AREA_TILED_SOURCE	VARCHAR2(20)	No	AREA_SRC	'GIS', 'GPS', 'Tile Drainage Record', 'Other'
A flag indicating if the "Area Tiled" was supplied on the Tile Drainage Record or if it was calculated using some other method. Potential values include: a) GIS b) GPS c) Tile Drainage Record d) Other				
TYPE_OTHER_DESCR	VARCHAR2(60)	No	OTH_DESCR	
A full description of the type when set to "Other".				
TILE_LENGTH_FEET	NUMBER(7,0)	No	LEN_FEET	
The length of tile drainage installed in a field measured in feet (rounded to the nearest foot).				
TILE_LENGTH_METRES	NUMBER(6,0)	No	LEN_METRES	
The length of tile drainage installed in a field measured in metres (rounded to the nearest metre).				
GENERAL_COMMENTS	VARCHAR2(2000)	No	COMMENTS	

Unstructured description, additional notes, or further explanation of long length.

REPORT_URL	VARCHAR2(254)	No	REPORT_URL
The address of a computer or a document 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 - also called universal resource locator.			
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 accuracy of the location of the feature at an OBM scale. The degree of conformity or closeness of a measurement to the true value.			
GEOMETRY_UPDATE_DATETIME	DATE	No	GEO_UPD_DT
Date/time the geometry was created or last modified in the source database.			
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
Date/time the record was created or last modified in the source database.			
SHAPE	SDO_GEOMETRY	No	SHAPE
Geometry attribute.			

LOCATION_ACCURACY_LIST

List of valid location accuracies associated to a mapped feature.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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TILE_DRAINAGE_RECORD_LOCATION

The location of the drained field based on information from the original Tile Drainage Record. In some cases OMAF staff may need to check with the tile contractor about an entry on the record. If the original information was incorrect it may be modified.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	
Ontario Geospatial Feature Identifier (OGF ID). A system generated identifier assigned to every feature record, unique at the application level.				
TILE_DRAINAGE_AREA_ID	NUMBER (13,0)	Yes	TILE_DRAIN	
Foreign Key (FK) reference to TILE_DRAINAGE_AREA_FT.OGF_ID feature record.				
UPPER_TIER_MUNICIPALITY	VARCHAR2 (80)	Yes	UPPER_MUN	
The name of the upper tier municipality such as regional municipality, county, territorial district.				
GEOGRAPHIC_TOWNSHIP_NAME	VARCHAR2 (100)	No	GEOG_TWP	
The official name of the geographic township.				
CONCESSION_IDENT	VARCHAR2 (100)	No	CONCESSION	
Name used by Geographic Information Ontario for a division of a township; usually this is a concession, but it may be a range, section, or other division.				

LOT_IDENT	VARCHAR2 (100)	No	LOT_IDENT
Name used by Geographic Information Ontario for a division of a township division (the lot).			
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
Date/time the record was created or last modified in the source database.			
OBJECTID	NUMBER (38,0)	Yes	OBJECTID

TILE_RECEIVING_SYSTEM

The receiving system that the tile drainage system discharges into.

Column Name	Column Type	Mandatory	Short Name	Valid Values
TILE_DRAINAGE_AREA_ID	NUMBER (13,0)	Yes	TILE_DRAIN	
Foreign Key (FK) reference to TILE_DRAINAGE_AREA_FT.OGF_ID feature record.				
TILE_RECEIVING_SYSTEM_TYPE	VARCHAR2 (25)	Yes	TILE_RECEI	'Roadside Ditch','Private Ditch', 'Municipal Drain','Natural Watercourse','Other

A description of the receiving system that the tile drainage outlet drains into. Potential entries include : a) Roadside Ditch, b) Private Ditch, c) Municipal Drain, d) Natural Watercourse, e) Other

TYPE_OTHER_DESCR	VARCHAR2 (60)	No	OTH_DESCR
A full description of the type when set to "Other".			
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
Date/time the record was created or last modified in the source database.			
OBJECTID	NUMBER (38,0)	Yes	OBJECTID

LIO Lookup Table Values:
LOCATION_ACCURACY_LIST

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 Table Relationships for Class:

Tile Drainage Area

TILE_DRAINAGE_AREA_FT	←----- TILE_DRAINAGE_AREA_FT.LOCATION_ACCURACY = LOCATION_ACCURACY_LIST.LOCATION_ACCURACY	LOCATION_ACCURACY_LIST
	-----→ TILE_DRAINAGE_RECORD_LOCATION.TILE_DRAINAGE_AREA_ID = TILE_DRAINAGE_AREA_FT.OGF_ID	TILE_DRAINAGE_RECORD_LOCATION
	-----→ TILE_RECEIVING_SYSTEM.TILE_DRAINAGE_AREA_ID = TILE_DRAINAGE_AREA_FT.OGF_ID	TILE_RECEIVING_SYSTEM