

Land Information Ontario Data Description

Fish Culture Operation Areas of Impact

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LIO Class Description

Fish Culture Operation Areas of Impact

Class Short Name: AQAREAIM

Version Number: 3

Class Description:

The water supply for a Fish Culture Station - MNRF can be vulnerable to activities such as construction, mining or forestry. These activities can result in a decreased or contaminated water supply for the Operation. The Area of Impact is divided into two types: The Area of Sensitivity and the Area of Concern. The Area of Sensitivity buffer the water source of the Operation while the Area of Concern is based on the aquifer supplying the Operation.

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:

Fish Culture Operation Areas of Impact

AQUA_AREA_OF_IMPACT_FT

An area in which certain activities may impact the quality and/or quantity of water being used by a fish culture operation. Some of these activities include: forestry, municipal development, resource extraction/exploration, waste disposal, water taking and agriculture.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	
Ontario Geospatial Feature Identifier (OGF_ID): A unique system identifier assigned to every spatial feature or table record.				
CLASS_SUBTYPE	VARCHAR2 (75)	Yes	SUBTYPE	'ANSI, Earth Science', 'ANSI, Life Science', 'ARA Summary', 'ARA Survey Point', 'Acadian Flycatcher Habitat Planning Range', 'Access Point', ... (See CLASS_SUBTYPE_LIST table)
The data class subtype - Original GEOG_UNIT_TYPE_NAME. Subtypes are filtered through the CLASS_SHORT_NAME to obtain a list of values permissible for a data class.				
CLASS_SUBTYPE_NUM	NUMBER (7,0)	Yes	STYPE_NUM	
The data class subtype number. Permissible values for this data class are from CLASS_SUBTYPE_LIST.				
AQUACULTURE_OPERATION_ID	NUMBER (13,0)	No	AQUA_OP_ID	
Foreign Key (FK) reference to parent AQUA_OP_MNR_FISH_CULTURE_FT.OGF_ID table record. Identifies the Fish Culture Operation spatial feature that the area of impact is related to.				
SOURCE_WATER_DESCR	VARCHAR2 (255)	No	SRC_WATER	
A description of where the water for the MNR fish culture station is being taken from.				
COMMENTS	VARCHAR2 (2000)	No	COMMENTS	
Unstructured description, additional notes, or further explanation.				
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.				

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 (16,3)	No	SYS_LENGTH
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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.

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.

AQUA_AREA_ACTIVITY

An activity that may impact a MNRF Fish Culture Operation.

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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Ontario Geospatial Feature Identifier (OGF_ID): A unique system identifier assigned to every spatial feature or table record.

AQUA_AREA_OF_IMPACT_ID	NUMBER (13,0)	Yes	AREA_ID
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Foreign Key (FK) reference to parent AQUA_AREA_OF_IMPACT_FT. OGF_ID table record. Identifies the Fish Culture Operation Area of Impact feature that the activity is associated to.

ACTIVITY_TYPE	VARCHAR2 (25)	Yes	ACTIVITY_T	'Access to Headpond', 'Agriculture', 'Chemical Application', 'Dam', 'Forestry', 'Recreation', ... (See AQUA_AREA_ACTIVITY_TYPE_LIST table)
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The specific type of activity that may impact the MNRF Fish Culture Station.

DATE_DESCR	VARCHAR2 (50)	No	DATE_DESCR
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Describes in general terms when an event will/did occur.

COMMENTS	VARCHAR2 (2000)	No	COMMENTS
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Unstructured description, additional notes, or further explanation.

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

AQUA_AREA_ACTIVITY_TYPE_LIST

List of valid activities related to Fish Culture Operation Areas of Impact.

Column Name	Column Type	Mandatory	Short Name	Valid Values
ACTIVITY_TYPE	VARCHAR2 (25)	Yes	ACTIVITY_T	
The specific type of activity that may impact the MNRF Fish Culture Station.				
ACTIVITY_TYPE_DESCR	VARCHAR2 (250)	Yes	ACTIVITY_T	
Description of the activity				
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.				

CLASS_SUBTYPE_LIST

List of valid data class subtypes and associated subtype numbers. Subtypes are filtered through the CLASS_SHORT_NAME to obtain a list of values permissible for a data class.

Column Name	Column Type	Mandatory	Short Name	Valid Values
CLASS_SUBTYPE	VARCHAR2 (100)	Yes	SUBTYPE	
The data class subtype - Original GEOG_UNIT_TYPE_NAME. Subtypes are filtered through the CLASS_SHORT_NAME to obtain a list of values permissible for a data class.				
CLASS_SHORT_NAME	VARCHAR2 (8)	Yes	CLASS_NAME	
System-generated column denoting the data class which this record is part of.				
CLASS_SUBTYPE_NUM	NUMBER (7,0)	Yes	STYPE_NUM	
The data class subtype number - Original GEOG_UNIT_TYPE_NUM.				
CLASS_SUBTYPE_DESCR	VARCHAR2 (2000)	Yes	GEOG_UNIT_	
Description of the subtype.				
VTE_SPECIES_IND	VARCHAR2 (3)	No	VTE_SPECIE	
Applicable to species-related subtypes only. Yes/No indicator if the subtype represents a Species at Risk (SAR). NOTE: Vulnerable Threatened Endangered (VTE) is a legacy term.				
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 accuracies associated to a mapped feature.

Column Name	Column Type	Mandatory	Short Name	Valid Values
LOCATION_ACCURACY	VARCHAR2 (25)	Yes	ACCURACY	
The degree of conformity or closeness of a measurement within the database to its true value in the world.				
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
For subscription: Date/time that the record was created in the LIO database. For publication: Date/time that the record was created in the source database.				
EXPIRY_DATETIME	DATE	No	EXP_DATE	
Date the record is no longer part of the database, or no longer valid. This is only populated in the history tables otherwise it will be null except for code tables.				

LIO Lookup Table Values:
AQUA_AREA_ACTIVITY_TYPE_LIST

ACTIVITY TYPE	ACTIVITY TYPE DESCR	EXPIRY DATETIME
Access to Headpond	Animal and human access to headponds and spring water supplies	
Agriculture	Agriculture Land	
Chemical Application	Chemical Application	
Dam	Dams	
Forestry	Forestry (any activity including cutting, chipping, spraying, planting, fires, forestry agreements etc.)	
Recreation	Recreational and/or Municipal Development (conservation areas, camps, cottage development, crown leases, trap lines, parks, road construction, building, hydro installation, land acquisition, waste disposal, golf courses, snowmobiling, ATVs)	
Reservoir	Reservoir	
Resource Development	Resource Development (test wells, mining, aggregates, seismic testing, oil exploration etc.)	
Road Construction	Road Construction	
WMU	Wildlife Management Areas / Units	
Waste Disposal	Waste Disposal	
Water Taking	Water Taking / Diversion	

LIO Lookup Table Values:

CLASS_SUBTYPE_LIST

CLASS SUBTYPE	CLASS SHORT NAME	CLASS SUBTYPE NUM	CLASS SUBTYPE DESCR	VTE SPECIES IND	EXPIRY DATETIME
Aquaculture Area of Concern	AQAREAIM	2784	Activities such as forestry, mining etc can result in a decreased or contaminated water supply for the Operation. The Areas of Concern are based on the aquifer supplying the Operation.	No	
Aquaculture Area of Sensitivity	AQAREAIM	2783	Activities such as forestry, mining etc can result in a decreased or contaminated water supply for the Operation. The Areas of Sensitivity are based on an immediate zone of influence around the intake of the water source of the Operation.	No	

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:
Fish Culture Operation Areas of Impact

AQUA_AREA_OF_IMPACT_FT	-----> AQUA_AREA_ACTIVITY.AQUA_AREA_OF_IMPACT_ID = AQUA_AREA_OF_IMPACT_FT.OGF_ID	AQUA_AREA_ACTIVITY	<----- AQUA_AREA_ACTIVITY.ACTIVITY_TYPE = AQUA_AREA_ACTIVITY_TYPE_LIST.ACTIVITY_TYPE	AQUA_AREA_ACTIVITY_TYPE_LIST
	<----- AQUA_AREA_OF_IMPACT_FT.CLASS_SUBTYPE = CLASS_SUBTYPE_LIST.CLASS_SUBTYPE	CLASS_SUBTYPE_LIST		
	<----- AQUA_AREA_OF_IMPACT_FT.LOCATION_ACCURACY = LOCATION_ACCURACY_LIST.LOCATION_ACCURACY	LOCATION_ACCURACY_LIST		