

Land Information Ontario Data Description

Waste Management Site

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LIO Class Catalogue

Waste Management Site

Class Short Name: WASTEMST

Version Number: 1

Class Description:

Waste management site polygon boundary. This data class is intended to store the location and essential attributes related to waste management sites of interest to the OMNR - Land Management Section. These are primarily on Crown land and for which the OMNR has an ongoing responsibility for proper management in both the short and long term. A companion data class, Waste Management Attenuation Zone, should contain the polygon boundary of the attenuation zone associated with the corresponding object in this Waste Management Site data class.

Abstract Class Name: SPMNTPOLY

Abstract Class

Description:

Spatial Multi-Non-Tessellating-Polygon: An object is represented by ONE or MORE polygons. Polygons may NOT overlap. HOLES within and GAPS between polygons ARE allowed. Example: the St. Lawrence Islands National Park, where the Park itself is made up of many islands.

Tables in LIO Class:

Waste Management Site

WASTE_MANAGEMENT_SITE_FT

A location where waste material is deposited, stored, processed, transferred, treated, or otherwise disposed of.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER (13,0)	Yes	OGF_ID	
System-generated object identifier, unique at the application level.				
VERIFICATION_STATUS_DATE	DATE	No	VERISTT_DT	
Currency date of information in this record				
CROWN_PARCEL_ID	NUMBER (13,0)	No	CROWN_ID	
Business identifier for a related object in the Crown Land - MNR Non-Freehold Dispositions data class. The waste site geometry does not need to be aligned with the crown parcel geometry. This allows linkage to the Crown Land tenure group of data layers. Does not require that the WMSITE polygon be coincident with the LT3 polygon.				
MNR_AREA	VARCHAR2 (75)	Yes	MNR_AREA	
The MNR Area (office) that is associated with administration and management of the site. The site may in fact be geographically located in a different MNR Area. The value of this attribute will be validated against a corporate table of MNR Administrative polygons (Area/District/Region)				
MNR_DISTRICT	VARCHAR2 (75)	Yes	MNR_DISTR	
Name of the MNR administrative district associated with the MNR Area. The value of this attribute will be validated against a corporate table of MNR Administrative polygons (Area/District/Region)				
MNR_REGION	VARCHAR2 (75)	Yes	MNR_REGION	
Name of the MNR administrative region associated with the MNR Area (and District). The value of this attribute will be validated against a corporate table of MNR Administrative polygons (Area/District/Region)				
CROWN_LAND_PROXIMITY_FLG	VARCHAR2 (4)	No	CROWN_PROX	On, Near, Not
SITE_NAME	VARCHAR2 (254)	No	SITE_NAME	
Local Site Name				
PRIMARY_CLASSIFICATION	VARCHAR2 (50)	Yes	PRIMARY_CL	Dump, Landfill, Transfer Station, Waste Processing or Sorting, Composting, Thermal Treatment, Special Waste (i.e. Hazardous), Other or Mixed, Unauthorized, Illegal, Ad Hoc or Historical
The primary classification of the waste site: 1 - Dump 2 - Landfill 3 - Transfer Station 4 - Waste Processing or Sorting 5 - Composting 6 - Thermal Treatment 7 - Special Waste (i.e. Hazardous) 8 - Other or Mixed 9 - Unauthorized, Illegal, Ad Hoc or Historical The classification is based on the primary use or activity at the site. For details of permitted activity and permitted waste refer to other attributes.				

STATUS	VARCHAR2 Yes (50)	STATUS	Closed, Non-Operating, Operating
Operational Status of the site [Closed, Non-Operating, Operating]			
CERTIFICATE_OF_APPROVAL_IDENT	VARCHAR2 No (50)	CERT_IDENT	
Certificate of Approval (CofA) number issued by Ministry of Environment.			
CERTIFICATE_OF_APPROVAL_HOLDER	VARCHAR2 No (50)	CERT_HOLD	
Name of the holder of the Certificate of Approval (CofA) Holder			
CERTIFICATE_COMPLIANCE_IND	VARCHAR2 No (3)	CERT_IND	
The site is in compliance with the terms and conditions of the Certificate of Approval, Valid values: Yes, No, or .			
TOTAL_AREA	NUMBER No (7,3)	TOTAL_AREA	
Total area (hectares) authorized by Certificate of Approval			
FILL_AREA	NUMBER No (7,3)	FILL_AREA	
Approved fill area (hectares) authorized by Certificate of Approval			
GEOGRAPHIC_LOCATION	VARCHAR2 No (254)	LOCATION	
Notes related to the location of the site.			
MUNICIPALITY	VARCHAR2 No (100)	MUNIC	
The name of the municipality in close proximity to the waste site.			
PROXIMITY_TO_MUNICIPALITY	NUMBER No (5,1)	PROX_MUN	
UTM_REFERENCE	VARCHAR2 No (100)	UTM_REF	
A UTM reference for the site. Suggested standard is to have numeric characters for the Zone, Easting and Northing separated by hyphens e.g. 17-573350-5249400			
REMAINING_VOLUME	NUMBER No (7,0)	REM_VOLUME	
Volume remaining (of total volume approved by CoA) in cubic meters			
ANNUAL_VOLUME	NUMBER No (5,0)	ANNUAL_VOL	
Estimated volume of waste being deposited annually (in cubic meters)			
VOLUME_DATE	DATE No	VOLUME_DT	
Date relative to values stored in Remaining Volume and Annual Volume			
SURFACE_STAKING_WITHDRAWN_IND	VARCHAR2 No (3)	STAKING_WD	
Indicator of whether surface rights for mineral exploration been withdrawn under the Mining Act? Valid values: Yes, No, or .			
MINING_RIGHTS_WITHDRAWN_IND	VARCHAR2 No (3)	MINING_WD	

Have sub-surface mineral and mining rights been withdrawn under the Mining Act? Valid values: Yes, No, or .

CROWN_OPERATION_IND	VARCHAR2 (3)	No	CROWN_OP
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Is the Crown responsible for the operation of this site? Usually this also means that the Crown holds the CofA for the site. Valid values: Yes, No, or .

CROWN_OPERATION_TYPE	VARCHAR2 (50)	No	CROWN_OP_T	MNR, Contractor, Licence Agreement, Volunteer Agreement, Site Closed, Other
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If the Crown is responsible for the site operation (Crown Operation Ind) then how is this carried out? Valid Values: - MNR - Contactor - Licence Agreement - Volunteer Agreement - Site Closed - Other

PLA_AUTHORITY	VARCHAR2 (50)	No	PLA_AUTH
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Authority for the site under the Public Lands Act (e.g. Land Use Permit) This only applies to sites located on Crown Land where the CofA is not held by the Crown

FILL_AREA_DELINEATED_IND	VARCHAR2 (3)	No	AREA_DEL
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Has the fill area been delineated on the ground Valid values: Yes, No, or .

CLOSURE_YEAR	NUMBER (4,0)	No	CL_YEAR
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Year the site is expected to close or did close

ATTENUATION_ZONE_ESTAB_IND	VARCHAR2 (3)	No	ATTEN_ZONE
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Has the attenuation zone for this site been established. Valid values: Yes, No, or .

SSHRAS_IND	VARCHAR2 (3)	No	SSHRAS_IND
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Has a Site Survey and Hydrogeological Risk Assessment Study been completed? Valid values: Yes, No, or .

ADDITIONAL_ASSESSMENTS_REQ_IND	VARCHAR2 (3)	No	ASSESS_REQ
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Are additional assessments required at the site? Valid values: Yes, No, or .

ADDITIONAL_ASSESSMENTS_NOTES	VARCHAR2 (254)	No	ASSESS_NOT
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Notes pertaining to required additional assessments.

MONITORING_WELLS_IND	VARCHAR2 (3)	No	MON_WELLS
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Monitoring wells are in place. Valid values: Yes, No, or .

WELLS_DECOMMISSIONED_IND	VARCHAR2 (3)	No	WELL_DECOM
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Monitoring wells have been decommissioned. Valid values: Yes, No, or .

DATE_WELLS_DECOMMISSIONED	DATE	No	DATE_DECOM
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Date that the monitoring wells were decommissioned.

OPERATIONAL_PLAN_IND	VARCHAR2 (3)	No	OP_PLAN
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Is there an operational plan in place? Valid values: Yes, No, or .

OPERATIONAL_PLAN_MOE_APPR_IND	VARCHAR2 (3)	No	OP_PL_APPR
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Has the operational plan been approved by MOE? Valid values: Yes, No, or .

OPERATIONAL_PLAN_MOE_APPR_DATE	DATE	No	OP_PL_DATE
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Date of MOE approval of the operational plan

CLOSURE_PLAN_IND	VARCHAR2 (3)	No	CL_PLAN
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Is there a closure plan in place? Valid values: Yes, No, or .

CLOSURE_PLAN_MOE_APPR_IND	VARCHAR2 (3)	No	CL_PL_APPR
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Has the MOE approved the closure plan? Valid values: Yes, No, or .

CLOSURE_PLAN_MOE_APPR_DATE	DATE	No	CL_PL_DATE
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Date of MOE approval of the closure plan.

CONTINGENCY_PLAN_IND	VARCHAR2 (3)	No	CO_PLAN
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Is there a contingency plan in place? Valid values: Yes, No, or .

CONTINGENCY_PLAN_MOE_APPR_IND	VARCHAR2 (3)	No	CO_PL_APPR
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Has the contingency plan been approved by MOE? Valid values: Yes, No, or .

CONTINGENCY_PLAN_MOE_APPR_DATE	DATE	No	CO_PL_DATE
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Date of MOE approval of the contingency plan.

GROUND_WATER_MONITORING_SCHED	VARCHAR2 (254)	No	GRND_W_MON
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How and when is ground water sampled?

SURFACE_WATER_MONITORING_SCHED	VARCHAR2 (254)	No	SURF_W_MON
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How and when is surface water sampled?

POTABLE_WATER_MONITORING_SCHED	VARCHAR2 (254)	No	POT_W_MON
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How and when is potable water sampled?

SUPPLEMENTAL_INFO	VARCHAR2 (254)	No	SUPP_INFO
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Where additional information can be found.

SUPPORTING_MATERIAL	VARCHAR2 (254)	No	SUPP_MAT
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Description of supporting material including web link (URL) to document in ODMS

COMMENTS	VARCHAR2 (2000)	No	COMMENTS
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General comments pertaining to the waste management site

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)
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The degree of conformity or closeness of a measurement within the database to its true value in the world.

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.

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.

WASTE_SITE_INSPECTION

Information pertaining to an inspection of a waste management site. The source of data in the initial INSPECTIONS table is the MS-Access database known as WMIS.

WASTE_SITE_MOE_ORDER

Information pertaining to a Ministry of Environment (MOE) order involving a waste management site. The source of data in the initial MOE ORDERS table is the MS-Access database known as WMIS.

Column Name	Column Type	Mandatory	Short Name	Valid Values
WASTE_MANAGEMENT_SITE_ID	NUMBER (13,0)	Yes	SITE_ID	
Unique identifier for object records in the Waste Management Site entity table.				
ORDER_DATE	DATE	Yes	ORDER_DATE	
Date of the MOE order				
MOE_ORDER_NUMBER	VARCHAR2 (50)	No	ORDER_NUM	
Official MOE order number.				
ORDER_DESCR	VARCHAR2 (254)	No	ORDER_DES	
Contents of the order				
RESOLVE_ACTION	VARCHAR2 (254)	No	RES_ACTION	
Action taken to comply with order				
DATE_RESOLVED	DATE	No	DATE_RESOL	
Date the action was taken.				
COMMENTS	VARCHAR2 (2000)	No	COMMENTS	
Brief comments related to this MOE Orders record				
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
Date/time the record was created or last modified in the source database.				

WASTE_SITE_PERMITTED_ACTIVITY

The Permitted Activity table stores which waste management activities are permitted at the site by the Certificate of Approval. These activities are stored in a one-to-many relationship so that there will be one record in this table for each activity permitted at the site.

Column Name	Column Type	Mandatory	Short Name	Valid Values
WASTE_MANAGEMENT_SITE_ID	NUMBER (13,0)	Yes	SITE_ID	
Unique identifier for object records in the Waste Management Site entity table.				
PERMITTED_ACTIVITY_TYPE	VARCHAR2 (12)	Yes	ACT_TYPE	Landfill, Transfer, Processing, Composting, Thermal, Biosolid, Other
The waste management activity indicated is permitted at the site by the CofA. Valid Values: Landfill Transfer Processing Composting Thermal Biosolid Other				
COMMENTS	VARCHAR2 (2000)	No	COMMENTS	
Brief comments related to this waste management activity. Particularly useful when 'Other' is				

selected as the permitted activity.

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

WASTE_SITE_PERMITTED_WASTE

The Permitted Waste table stores which types of waste are permitted at the site by the Certificate of Approval. These types are stored in a one-to-many relationship so that there will be one record in this table for each type of waste permitted at the site.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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WASTE_MANAGEMENT_SITE_ID	NUMBER (13,0)	Yes	SITE_ID	
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Unique identifier for object records in the Waste Management Site entity table.

PERMITTED_WASTE_TYPE	VARCHAR2 (12)	Yes	WASTE_TYPE	Household, Commercial, Hazardous, Septic, Biosolids, Compost, Soil, Tires, Wood, Blue-box, Bio- medical, PCBs, Other
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The type of waste indicated is permitted at the site. Valid Values: Household Commercial Hazardous Septic Biosolids Compost Soil Tires Wood Blue-box Bio-medical PCBs Other

COMMENTS	VARCHAR2 (2000)	No	COMMENTS	
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Brief comments related to the type of permitted waste. Particularly useful when 'Other' is selected as the type of permitted waste.

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

WASTE_SITE_STUDY

Visits to the waste management site related to conducting studies, surveys or assessments. usually related to hydrogeology

Column Name	Column Type	Mandatory	Short Name	Valid Values
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WASTE_MANAGEMENT_SITE_ID	NUMBER (13,0)	Yes	SITE_ID	
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Unique identifier for object records in the Waste Management Site entity table.

STUDY_DATE	DATE	Yes	STUDY_DATE	
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Date of the study.

STUDY_TYPE	VARCHAR2 (50)	Yes	STUDY_TYPE	Hydrogeological Risk Assessment, Hydrogeological, Other
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Type of study or survey Valid values include: - Hydrogeologiccal Risk Assessment Study - Other Hydrogeological Study - Other Study

SURVEYOR_TYPE	VARCHAR2 (10)	No	SURVEYOR_T	MNR, Consultant, Other
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Who carried out the study MNR or Consultant Valid values: MNR, Consultant, Other or . When Other is indicated, an explanation in the Study Comment field is recommended.

DOCUMENT_REFERENCE	VARCHAR2 (254)	No	DOC_REF
Link to the study report in ODMS			
METHODOLOGY	VARCHAR2 (254)	No	METHODOL
The methodology used for the study			
STUDY_RESULTS	VARCHAR2 (254)	No	STUDY_RES
Highlights of the study results.			
COMMENTS	VARCHAR2 (2000)	No	COMMENTS
Comments related to this Site Studies record.			
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
Date/time the record was created or last modified in the source database.			

WASTE_SITE_WATER_MONITORING

Visits to the waste management site related to monitoring water (surface water, ground water, potable water) and the installation, maintenance and decommissioning of monitoring wells

Column Name	Column Type	Mandatory	Short Name	Valid Values
WASTE_MANAGEMENT_SITE_ID	NUMBER (13,0)	Yes	SITE_ID	
Unique identifier for object records in the Waste Management Site entity table.				
MONITORING_DATE	DATE	Yes	MON_DATE	
Date of the monitoring visit.				
GROUND_WATER_MONITORING_IND	VARCHAR2 (3)	No	GROUND	
Ground water was monitored. Valid values: Yes, No, or .				
SURFACE_WATER_MONITORING_IND	VARCHAR2 (3)	No	SURFACE	
Surface water was monitored. Valid values: Yes, No, or .				
POTABLE_WATER_MONITORING_IND	VARCHAR2 (3)	No	POTABLE	
Potable water was monitored. Valid values: Yes, No, or .				
WELL_INSTALLATION_IND	VARCHAR2 (3)	No	WELL_INST	
Monitoring well installation took place. Valid values: Yes, No, or .				
WELL_MAINTENANCE_IND	VARCHAR2 (3)	No	WELL_MAINT	
Monitoring well maintenance took place. Valid values: Yes, No, or .				
WELL_DECOMMISSIONING_IND	VARCHAR2 (3)	No	WELL_DECOM	
Monitoring well decommissioning took place. Valid values: Yes, No, or .				

OTHER_MONITORING_IND	VARCHAR2 (3)	No	OTHER
Some other type of monitoring activity took place. A brief description of the activity should be entered in the Monitoring Comment field. Valid values: Yes, No, or .			
MONITORING_RESULTS	VARCHAR2 (254)	No	RESULTS
Brief summary of the results of the monitoring activity.			
DOCUMENT_REFERENCE	VARCHAR2 (254)	No	DOC_REF
Link to the monitoring report in ODMS			
COMMENTS	VARCHAR2 (2000)	No	COMMENTS
Comments related to this Water Monitoring record			
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
Date/time the record was created or last modified in the source database.			

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