



# Corporate Production GIS Metadata

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## Layer Name: Water\_Hydrant

### General Information

<b>Layer Name:</b>	Water_Hydrant
<b># of Features:</b>	4834
<b>Status:</b>	ACTIVE
<b>Layer Source:</b>	GIS_DATA.WAT_HYDRANT
<b>Layer Quality:</b>	Good
<b>Feature Accuracy:</b>	+/- 2m
<b>Type:</b>	POINT
<b>Description:</b>	Inventory of all municipal water hydrants in the City of Kitchener.
<b>Projection:</b>	NAD 83 UTM Zone 17N (EPSG 26917)
<b>Disclaimer:</b>	The City of Kitchener assumes no responsibility for the accuracy of the provided data. Any use of this information is done so at the users risk. Good survey practices must be applied when utilizing this information. The City of Kitchener and its partners have created this data for information purposes on an as-is and as available basis and is under no circumstances a substitute for a Legal Survey. The City does not make any representations or warranty, express or implied, concerning the accuracy, quality, likely results, or reliability of the use of the data. The City of Kitchener assumes no responsibility for any errors and is not liable for any damages of any kind resulting from the use of, or reliance on, the information and material contained in this layer. All information should be verified independently before being used or relied on. Users are encouraged to contact the City of Kitchener to ensure the accuracy of the information provided by Kitchener.

### Source and Contraints

<b>Source Map Label:</b>	Water Hydrants: Corporate Services - Technology Innovation and Services - Geospatial Data and Analytics (Current to date of printing)
<b>History:</b>	The hydrant layer was maintained by the Utilities Division, on an annual basis and provided to GIS staff around March time frame each year. Utilities Engineering staff kept their attribute information separate, and their system administrator copied it over to the IIMS system when they deliver the hydrants. Once the hydrants were added into GIS DBAs would run the procedure SDE.LOAD_WAT_HYDRANT. GIS Updates: Yearly - March Utilities - Water Data is nw maintained in GIS
<b>Original Source:</b>	INS - Utilities
<b>Original Source Process:</b>	
<b>Maintenance:</b>	The hydrant layer is currently maintained by the GIS Division using as-built drawings on a daily basis. See update documentation for instructions
<b>Current Info Source:</b>	Kitchener - As Builts.
<b>Outstanding Issues:</b>	
<b>Update Frequency:</b>	CONTINUOUS

### Data Fields & Domain Information

#### Water\_Hydrant

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
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Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
OBJECTID	OBJECTID	NUMBER	ESRI system maintained integer field used to uniquely identify rows in tables in a geodatabase. Note that OBJECTID values change upon export or import of the data and should not be used as a primary field for searching or identifying records.			
WATHYDRANTID	Wathydrantid	NUMBER	Database maintained field that permanently assigns a unique value for each record. This ID value should be the one referred to when identifying a record.			
CREATE_BY	Create By	VARCHAR2	Database maintained field. Updates to the user name that created the feature. Update takes place when the feature is created.			
CREATE_DATE	Create Date	DATE	Database maintained field. Updates to the current data/time. Update takes place when the feature is created.			
UPDATE_BY	Update By	VARCHAR2	Database maintained field. Updates to the user name that most recently updated either an attribute or the geometry of the feature. Update takes place when the feature is created and/or changed.			
UPDATE_DATE	Update Date	DATE	Database maintained field. Updates to the current data/time when an attribute or the geometry of the feature is changed. Update takes place when the feature is created and/or changed.			
STATUS	Status	VARCHAR2	Indicates the status of feature. A pick list is used for this field - contact GIS for pick list values.	WatHydrantStatus	IN SERVICE	IN SERVICE; OUT OF SERVICE
STATUS_DATE	Status Date	DATE	Database maintained field. Updates to the current date/time when the STATUS field value is changed.			
SOURCE	Source	NUMBER	GIS maintained field. Source EDRA (Electronic Document Registration Application) document number, or name of department or specific staff member that the information came from.			
SOURCE_DATE	Source Date	DATE	GIS maintained field. Date of the source document or information.			
REL_WATMAINID	Rel Watmainid	NUMBER	Input by GIS staff. WATMAINID value of the GIS_DATA.WAT_MAIN layer feature which the hydrant is serviced from.			
REL_WATSERVICEPIPEID	Rel Watservicepipeid	NUMBER	Input by GIS staff. WATSERVICEPIPEID value of the GIS_DATA.WAT_SERVICE_PIPE layer feature which the hydrant is serviced from.			
PROPERTY_UNIT_ID	Property Unit Id	NUMBER	Input by GIS staff. Closest feature in the layer GIS_DATA.PROPERTY_UNIT_LOCATION to the water hydrant on the same street using the PROPERTY_UNIT_ID value.			
ADDRESSID	Addressid	NUMBER	Input by GIS staff. Closest address to the water hydrant along the same street using the fire address id.			
TAG1	Tag1	VARCHAR2	Temporary location to store short term data for mapping purposes only.			
SHAPE	SHAPE	ST_GEOMETRY	ESRI system maintained field. Stores the geometry type and geometry of the feature.			

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
MAKE	Make	VARCHAR2	Provided through as-built plan or digital submission. Make of the water hydrant. The default value is 'TO INPUT'. Valid values are 'MCAVITY/CLOW', 'KERR', 'DAIGLE', 'CANADA VALVE', 'AVK', and 'MEULLER'. The value 'UNKNOWN' indicates that the make was not given or is unknown.	WatHydrantMake		AVK; CANADA VALVE; DAIGLE; KERR; MCAVITY/CLOW; MUELLER CANADA; UNKNOWN
MODEL	Model	VARCHAR2	Provided through as-built plan or digital submission. Model of the water hydrant. The default value is 'TO INPUT'. Valid values are 'M-67', 'DARLING', 'CONCORD', 'CENTURY', 'BRIGADIER', and 'MODERN CENTURIAN'. The value 'UNKNOWN' indicates that the model was not given or is unknown.	WatHydrantModel		27-80; CENTURY; CONCORD; DARLING; HERITAGE; M-67; MODERN CENTURIAN; NOSTALGIC DRY BARREL; UFFEE; UNKNOWN ...See GIS for a complete list...
LOC_MARKER	Loc Marker	VARCHAR2	Provided by Utilities. Indicates if the hydrant has a flag marker. The default value is 'TO INPUT'. Valid values are 'NO', and 'YES'. The value 'UNKNOWN' indicates that the flag marking indication was not given or is unknown.	YesNoOnly	N	No; Yes
CONNECTION_TYPE	Connection Type	VARCHAR2	Provided through as-built plan or digital submission. Connection type of the hydrant. The default is 'TO INPUT'. Valid values are 'NORM', and 'STORTZ'. The value 'UNKNOWN' indicates that the connection type was not given or is unknown.	WatHydrantConnection		2 PORTS ONLY; STORTZ PLUS 2 PORTS; UNKNOWN
DEADEND_FLUSHING	Deadend Flushing	VARCHAR2	Provided by Utilities	WatHydDeadendFlushing	N	B - BOTH FALL AND REGULAR; F - FALL; N - NONE; ND - NEW DEVELOPMENT; R - REGULAR
INSTALLATION_DATE	Installation Date	DATE	Date the feature was installed			
WARRANTYDATE	Warrantydate	DATE	Same as INSTALLATION_DATE.			
ACQUISITION	Acquisition	VARCHAR2	Input by GIS staff. Identification of how the city received or acquired the feature. If the feature came through the subdivision process it is considered 'DONATED' and if not it is 'PURCHASED'	PSABAacquisition	DONATED	DONATED; PURCHASED
KU_NOTES	Ku Notes	VARCHAR2	Input by Utilities staff. Open text field for notes.			
ENGINEERING_NOTES	Engineering Notes	VARCHAR2	Input by Engineering staff. Open text field for notes.			
CONSULTANT	Consultant	VARCHAR2				
GENERAL_GRID	General Grid	VARCHAR2		GridStandardID		277; 563; 582; 583; 584; 585; 586; 587; 607; 608 ...See GIS for a complete list...

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
QUARTER_GRID	Quarter Grid	VARCHAR2		GridQuarteredID		277-A; 407-C; 586-D; 587-A; 607-A; 607-B; 607-C; 607-D; 608-A; 608-B ...See GIS for a complete list...
BFP_BOX_NUM	Bfp Box Num	NUMBER				
CUSTOMER	Customer	VARCHAR2				
REL_WATSERVICEVALVEID	Rel Watservicevalveid	NUMBER				
LRT_HAZARD_ZONE	Lrt Hazard Zone	VARCHAR2		LrtHazardZone	NONE	BUFFER; NONE; ROAD LRT; ZONE A; ZONE B
HYDRANT_FLAG_INSTALLED	Hydrant flag installed	VARCHAR2		YesNoOnly	N	No; Yes
CLOSEST_ADDRESS	CLOSEST_ADDRESS	VARCHAR2				
STATIC_PRESSURE	Latest static pressure	NUMBER	Updated nightly through data from Cityworks inspections. Static pressure reading from latest inspection where the pressure was measured.			
STATIC_PRESSURE_DATE	Latest static pressure date	TIMESTAMP(6)	Updated nightly through data from Cityworks inspections. Date of latest inspection where the pressure was measured.			
INSPECTED_SPRING_1YR	Inspected in spring in last year	VARCHAR2	Updated nightly through data from Cityworks inspections. Indicates if the hydrant has had a spring operating check inspection.	YesNoOnly	N	No; Yes
INSPECTED_FALL_1YR	Inspected in fall last year	VARCHAR2	Updated nightly through data from Cityworks inspections. Indicates if the hydrant has had a fall operating check inspection.	YesNoOnly	N	No; Yes
WATER_IN_BARREL	WATER_IN_BARREL	VARCHAR2	Updated nightly through data from Cityworks inspections. If water was found the hydrant barrel at last fall operating check inspection which would indicate potential groundwater issues.	YesNoLong		NO; UNKNOWN; YES

**\*Layer Quality:**

SCHEMATIC - spatial representation of features are not to scale and not in accurate relative position to other features on other layers.  
GENERALIZED - position of features are approximate, should not be used in conjunction with base layers (parcel fabric or Ortho-imagery)  
GOOD - position of features are usually based on relative position to base layers (Ortho-imagery or parcel fabric)

Note: Dataset may not include all fields: Open Data layers will only include fields approved for sharing as open data

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