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CORPORATE SPATIAL (VECTOR) DATASETS

ABRIDGED CADASTRAL AND RELATED INFORMATION METADATA

A. Introduction

This document (together with others) serves to tabulate and describe the spatial data hosted by the City of Tshwane. Spatial data are currently hosted on a variety of servers in various departments but the primary source is located on the Geo-Data Warehouse and served via ArcGIS SDE and Microsoft SQL Server.

The metadata is grouped by custodian information for ease of identification. This particular document describes the feature datasets and feature classes, as grouped in the Cadastre.sde database, and covers the vector data supplied to external users.

B. ArcGIS SDE Vector Datasets

1. Identification Information:

1.1. Citation:

Citation Information:

Originator: Corporate Geo-Information Management; City of Tshwane

Publication Date: Continuous.

Title: SDE Spatial Data

Geospatial Data Presentation Form: Vector digital data

2. Description:

Abstract: Spatial Vector Data is stored in logical groupings on the Corporate SDE for access to personnel throughout the City of Tshwane.

Purpose: To provide a framework for all users and custodians of spatial information in the City of Tshwane.

3. Time Period of Content:

3.1. Time Period Information:

Calendar Date: Continuously updated.

3.2. Currentness Reference:

Current, unless otherwise specified in this document.

4. Content Status:

4.1. Progress:

Continuous.

4.2. Maintenance and Update Frequency:

Continuous, unless otherwise specified in this document.

5. Spatial Reference Information:

5.1. Horizontal Coordinate System Definition:

Coordinate system name:

Projected coordinate system name: WG29

Geographic coordinate system name: GCS_Hartebeesthoek_1994

5.2. Planar:

Map Projection:

Map Projection Name: Transverse Mercator

Transverse Mercator:

Scale Factor at Central Meridian: 1.000000

Longitude of Central Meridian: 29.000000

Latitude of Projection Origin: 0.000000

False Easting: 0.000000

False Northing: 0.000000

Planar Coordinate Information:

Planar Coordinate Encoding Method: Coordinate pair

Coordinate Representation:

Abscissa Resolution: 0.000064

Ordinate Resolution: 0.000064

Planar Distance Units: Meters

5.3. Geodetic Model:

Horizontal Datum Name: D_Hartebeesthoek_1994

Ellipsoid Name: WGS_1984

Semi-major Axis: 6378137.000000

Denominator of Flattening Ratio: 298.257224

6. Data Reference Information:

6.1. Metadata Date:

March 2019

6.2. Metadata Contact:

Contact Information:

Contact Organization Primary: City of Tshwane Metropolitan
Municipality

Department: Shared Services

Contact Organisation: Corporate GIS Management

Contact Person: Thiloshini Cunnan

Contact Address: ThiloshiniC@tshwane.gov.za

Address Type:

Contact Voice Telephone: +27 12 358 4688

6.3. Metadata Standard:

FGDC Content Standards for Digital Geospatial Metadata

CADASTRE.SDE DATABASE

1. Cadastral Feature Dataset

a) Contact Information:

Contact Person: Carolyn Naidoo,
Deputy Director: Land Information System Management
Section: Corporate GIS Management

Contact Details: Tel: +27 12 358 7857
Email: CarolynN@tshwane.gov.za

b) Abstract:

A collection of feature classes representing the Cadastral boundaries and features in the City of Tshwane. It is represented for reference purposes only; assumes no legal status; and is not intended to be a substitute for legally approved Surveyor General data or documentation.

1.1. Data Set: FarmBoundary Feature Class

a) Abstract:

All original surveyed farms in Tshwane Municipality plus adjoining farms where required. Data has been aligned to WGS84.

b) Content Status:

Relevant Time Period: Current

Update Frequency: Continuous

c) Constraints on accessing and using the data:

Access constraints: None

Use constraints: Original documentation is still regarded as legal.

d) Attributes:

Data Element	Description	Data Format
ObjectID	System Object Identifier	Object ID
Geocode	Internal reference to the Farm	Text (50)
Registration_Division	The S.G.O. registration division in which the farm is located	Text (2)
Farm_Number	Farm number recorded in S.G.O.	Text (3)
Name	Farm name recorded in S.G.O.	Text (50)
Numkey	Unique identifier of Farm	Text (4)
SG_Diagram_No	S.G.O. Diagram Number	Text (15)
Title_Deed_No	Current Title Deed number	Text (15)
Status	Defines registered status of Farm *	Long Integer
Remark	Comments	Text (100)
Municipal_Status	Position relative to municipal boundary *	Short Integer
Date_Captured	Date of capture	Date
Date_Modified	Date of amendment(s)	Date

Shape	Spatial Entity geometry	Polygon
Shape.Area	Area of Spatial Entity	Double
Shape.Len	Perimeter of Spatial Entity	Double

e) SubTypes:

Status:

- 0 = Registered
- 1 = Unregistered
- 7 = Not Verified

f) Domains:

Municipal_Status:

- 0 = Within

1.2. Data Set: LandBoundary Feature Class

a) Abstract:

All original surveyed Townships and Agricultural Holdings. Data has been aligned to WGS84.

b) Content Status:

Relevant Time Period: Current

Update Frequency: Continuous

c) Constraints on accessing and using the data:

Access constraints: None

Use constraints: Original documentation is still regarded as legal.

d) Attributes:

Data Element	Description	Data Format
ObjectId	System Object Identifier	Object ID
Class	Identifies type of land boundary *	Text (15)
Geocode	Internal reference to Township or AH	Text (15)
Name	Name of Township or AH	Text (40)
Extension	Township or AH Extension number	Long Integer
Numkey	Unique identifier of Township or AH	Text (4)
General_Plan_No	S.G.O. General Plan Number	Text (15)
Proclamation_Date	Date of Township or AH proclamation	Date
Status	Defines registered status of Township/AH *	Long Integer
Remark	Comments	Text (100)
Municipal_Status	Position relative to municipal boundary *	Short Integer
Date_Captured	Date of capture	Date
Date_Modified	Date of amendment(s)	Date
Shape	Spatial Entity geometry	Polygon
Shape.Area	Area of Spatial Entity	Double
Shape.Len	Perimeter of Spatial Entity	Double

e) SubTypes:

Status:

- 0 = Registered
- 1 = Unregistered
- 7 = Not Verified

f) Domains:

Municipal_Status:

- 0 = Within

Class:

- 0 = Township
- 1 = AH_Township

1.3. Data Set: LandParcel Feature Class

a) Abstract:

All original surveyed land parcels (erf, agricultural holding and farm portion). Data has been aligned to WGS84.

b) Content Status:

Relevant Time Period: Current

Update Frequency: Continuous

c) Constraints on accessing and using the data:

Access constraints: None

Use constraints: Original documentation is still regarded as legal.

d) Attributes:

Data Element	Description	Data Format
ObjectID	System Object Identifier	Object ID
Class	Identifies class of the land parcel *	Text (15)
LIS_Key	Unique land parcel identifier	Text (16)
Parcel_No	Erf or Holding number	Text (5)
Portion_No	Portion number if subdivision of Parent property	Text (7)
Type	Defines the land parcel type *	Text (3)
Subdivison_Component	Identifies the parent LIS_Key component	Text (16)
Consolidation_Component	Identifies LIS_Key component of a consolidated land parcel	Text (16)
Legal_Area	Land parcel extent registered at S.G.O.	Double
SG_Diagram_No	S.G.O. Diagram reference	Text (15)
GP_Subdivision_No	S.G.O. General Plan reference for erf subdivisions	Text (15)
General_Plan_No	S.G.O. General Plan reference	Text (15)
General_Plan_Sheet	GP Sheet number on which land parcel is indicated	Text (2)
SG_Approval_Date	Date on which Diagram/GP was approved at S.G.O.	Date
Title_Deed_No	Latest Title Deed registered at Deeds Office	Text (15)

Parcel_Label	Cartographic representation of land parcel number	Text (15)
Status	Registered status of a land parcel *	Long Integer
Remark	Comments	Text (100)
Municipal_Status	Position relative to municipal boundary *	Short Integer
Date_Captured	Date of capture	Date
Date_Modified	Date of amendment(s)	Date
Boundary_Label	Name of the containing Land or Farm Boundary	Text (60)
Shape	Spatial Entity geometry	Polygon
Shape.Area	Area of Spatial Entity	Double
Shape.Len	Perimeter of Spatial Entity	Double

e) SubTypes:

Status:

- 0 = Registered
- 1 = Unregistered
- 5 = Road
- 6 = Railway
- 7 = Not Verified
- 8 = Now Scheme

f) Domains:

Class:

- 0 = Erf
- 1 = AH
- 2 = Farm Portion

Type:

- 0 = Subdivided
- 1 = Consolidated
- 2 = Road Closure
- 4 = Park
- 5 = Remainder of Township

Municipal_Status:

- 0 = Within

1.4. Data Set: Restriction Feature Class

a) Abstract:

All original surveyed restrictions (Servitudes, Leases etc.). Data has been aligned to WGS84.

b) Content Status:

Relevant Time Period: Current

Update Frequency: Continuous

c) Constraints on accessing and using the data:

Access constraints: None

Use constraints: Original documentation is still regarded as legal.

d) Attributes:

Data Element	Description	Data Format
ObjectID	System Object Identifier	Object ID
Class	Class of Restriction *	Text (15)
Restriction_Key	Combined LIS_Key & Function_Key	Text (25)
LIS_Key	Unique land parcel identifier	Text (16)
Function_Key	Unique identifier of the Restriction	Text (9)
Type	Type of Restriction *	Text (3)
Legal_Area	Area extent as registered at S.G.O.	Double
Legal_Width	Width of the Restriction	Double
SG_Diagram_No	S.G.O. Diagram reference	Text (15)
Title_Deed_No	Deed of Servitude number	Text (15)
Proclamation_No	Proclamation reference number	Text (15)
Status	Registered status of the Restriction *	Long Integer
Storey_Height	Reference to storey level	Text (3)
Z_Coordinate	Height of Restriction	Double
Description	Comments	Text (100)
Municipal_Status	Position relative to municipal boundary *	Short Integer
Date_Captured	Date of capture	Date
Date_Modified	Date of amendment(s)	Date
Shape	Spatial Entity geometry	Polygon
Shape.Area	Area of Spatial Entity	Double
Shape.Len	Perimeter of Spatial Entity	Double

e) SubTypes:

Status:

- 0 = Registered
- 1 = Unregistered

f) Domains:

Class:

- 0 = Servitude
- 1 = Lease
- 2 = Conservation
- 3 = Road_Proclamation
- 4 = Proclamation

Type:

- 1 = Cadastral
- 2 = Municipal Purposes
- 3 = Electrical
- 4 = Sewer
- 5 = Water
- 6 = Road
- 7 = Railway
- 8 = Height
- 9 = Undefined

Municipal_Status:

- 0 = Within

1.5. Data Set: Sectional Scheme Feature Class

a) Abstract:

All original surveyed Sectional Schemes and Council approved second dwellings (duet plans) represented by a geo-referenced hexagon. Data has been aligned to WGS84.

b) Content Status:

Relevant Time Period: Current

Update Frequency: Continuous

c) Constraints on accessing and using the data:

Access constraints: None

Use constraints: Original documentation is still regarded as legal. Placement of sectional title units correlates to aerial photography where possible.

d) Attributes:

Data Element	Description	Data Format
ObjectId	System Object Identifier	Object ID
Class	Class of property on which SS is located *	Text (15)
Sectional_Scheme_Key	Combined LIS_Key & Function_Key	Text (25)
LIS_Key	Unique land parcel identifier	Text (16)
Function_Key	Unique identifier of the Sectional Scheme	Text (10)
Type	Type of Sectional Scheme *	Short Integer
Floor_Area	Area of Sectional Scheme Unit as registered at S.G.O.	Double
Participation_Quota_Percentage	Participation Quota Percentage of SS Unit as registered at S.G.O.	Double
SG_Diagram_No	S.G.O. diagram reference	Text (15)
SG_Approval_Data	Date of S.G.O. approval	Date
Title_Deed_No	Current Title Deed of SS Unit	Text (20)
Unit_Label	SS Unit number	Text (4)
Sectional_Scheme_Name	Name of Sectional Scheme as registered at S.G.O.	Text (60)
Sectional_Scheme_No	Number of Sectional Scheme as registered at Deeds Office.	Text (15)
Status	Registered status of the SS *	Short Integer
Remark	Comment	Text (99)
Municipal_Status	Position relative to municipal boundary *	Short Integer
Date_Captured	Date of capture	Date
Date_Modified	Date of amendment(s)	Date
Shape	Spatial Entity geometry	Polygon
Shape.Area	Area of Spatial Entity	Double
Shape.Len	Perimeter of Spatial Entity	Double

e) SubTypes:

Status:

- 0 = Registered
- 1 = Unregistered
- 7 = Not Verified

f) Domains:

Class:

- 0 = Erf
- 1 = AH
- 2 = Farm Portion

Type:

- 0 = Sectional Scheme
- 4 = Real Rights

Municipal_Status:

- 0 = Within

Notes on the Function Key

The purpose of the Function Key is to identify a particular attribute or feature associated with another geographical feature, invariably a land parcel. Thus, a Sectional Title Scheme that is located on a farm portion or an Erf in a Township is allocated a Functional key which is used to uniquely identify each Sectional Title Unit in the Scheme. Similarly, a Functional Key is allocated to Servitude on a land parcel that uniquely identifies it thereby allowing for multiple servitudes on a land parcel to be identified uniquely.

The structure of the Function Key, which is a maximum of 9 characters, is as follows:

Characters 1-3 :- Identifies the owner of the Function Key i.e. the Function Key custodian.

Characters 4-5 :- Identifies the type of feature or attribute being described.

Characters 6-9 :- A unique (sequential) number for every feature.

For the Cadastral Feature Datasets the following Functional Keys have been allocated.

Function	Description
GEOSS	GeoInformation, Sectional Scheme
GEORR	GeoInformation, Real Right (on SS)
GEOSV	GeoInformation, Servitude
GEOLS	GeoInformation, Lease
GEOCS	GeoInformation, Conservation
GEORP	GeoInformation, Road Proclamation
GEOPR	GeoInformation, Proclamation
RMMSV	Revenue Management Multiple Services

Datasets for other business units may describe Function Keys that are particular to such datasets. Reference should be made to the metadata of those datasets for further information. Alternatively, information regarding Function Keys for other units is contained on the Intranet under the Maps and GIS tab.

2. Cadastral_Address Feature Dataset

a) Contact Information:

Contact Person: Marike Brown
 Functional Head: Toponymy
 Section: Land Use Legislation and Regional Services

Contact Details: Tel: +27 12 358 4571
 Email: marikeb@tshwane.gov.za

b) Abstract:

A collection of feature classes related to street sections and street addresses both physical and locality.

2.1. Data Set: Street_Address Feature Class

a) Abstract:

A feature class indicating all physical and locality addresses.

b) Content Status:

Relevant Time Period: Current

Update Frequency: Continuous

c) Constraints on accessing and using the data:

Access constraints: None

Use constraints: None

d) Attributes:

Data Element	Description	Data Format
ObjectID	System Object Identifier	Object ID
Property_Key	Combined LIS_Key & Function_Key	Text (25)
Entrance_Type	Type of street entrance *	Short Integer
Physical_Address_No	Physical Street Address number	Text (6)
Physical_Street_Name	Physical Street Name	Text (40)
Point_of_Observation	Description Required	Short Integer
Locality_Address_No	Street Address at entrance to property	Text (6)
Locality_Street_Name	Street Name at entrance to property	Text (40)
Street_Section_Code	Street section code of Physical Street	Text (18)
Remark	Comments	Text (50)
Geocode	Reference to Township/AH in which property is located	Text (15)
Date_Captured	Date of capture	Date
Date_Modified	Date of amendment	Date

Shape	Spatial Entity geometry	Line
Address_Status	Current status of the allocated address*	Short Integer
Shape.Len	Length of Spatial Entity	Double
Address_Type	Type of address	Short Integer

e) SubTypes:

Status:

- 0 = Active

Type:

- 1 = Street Address
- 2 = Site Address
- 5 = Landmark Address
- 11 = Farm Address

f) Domains:

Type:

- 0 = Single Entrance
- 1 = Multiple Entrance

3. Cartography_Publication Feature Dataset

a) Contact Information:

Contact Person: Chris Labuschagne
 Deputy Director: Cartographic Management
 Section: Corporate GIS Management

Contact Details: Tel: +27 12 358 7815
 Email: chrisl@tshwane.gov.za

b) Abstract:

This dataset is a collection of non-topographical feature classes used primarily for cartographic purposes (map production).

3.1. Data Set: Administrative_Area Feature Class

a) Abstract:

A collection of administrative boundary features.

b) Content Status

Relevant Time Period: Current.

Update Frequency: As and when changes occur.

c) Constraints on accessing and using the data:

Access constraints: Only Sub-Type 14 (City of Tshwane Regions).

Use constraints: None.

d) Attributes:

Data Element	Description	Data Format
ObjectId	System Object Identifier	Object ID
Name	Name of Administrative Area	Text (50)
Date_Captured	Date of capture	Date
Date_Modified	Date of amendment	Date
Shape	Spatial Entity geometry	Polygon
Shape.Area	Area of Spatial Entity	Double
Shape.Len	Perimeter of Spatial Entity	Double

e) SubTypes:

- Type:
- 14 = Tshwane Regions

f) Domains:

None

3.2. Data Set: Community_Point_Feature Feature Class

a) Abstract:

This is a feature class depicting 'Points of Interest' for the Tshwane Municipal area. The data are derived from numerous internal and external sources and thus certain subsets

of the data are not made available. The domain values for the Class field have been categorised into logical groupings.

b) Content Status:

Relevant Time Period: Current

Update Frequency: Continuous

c) Constraints on accessing and using the data:

Access constraints: Limited access. The following fields, only, are available to the public:

- ObjectID
- Name
- Type, with the following restrictions. Only the following Sub-types:
 - 0 (domain value 115)
 - 1 to 13;
 - 15 to 25 (Type 23 – domain value 180)
- Class
- LIS_Key
- Date_Captured
- Date_Modified
- Shape

Use constraints: None

d) Attributes:

Data Element	Description	Data Format
ObjectID	System Object Identifier	Object ID
Name	Name of Community Point	Text (70)
Type	Type of Community Point *	Long Integer
Class	Class of Recreation *	Text (50)
LIS_Key	Unique land parcel identifier	Text (20)
Date_Captured	Date of capture	Date
Date_Modified	Date of amendment	Date
Shape	Spatial Entity geometry	Point

e) SubTypes:

Type:

- 0 = Accommodation
- 1 = Animal Welfare
- 2 = Cemetery
- 3 = Court
- 4 = Cultural Site
- 5 = Education
- 6 = Emergency Service
- 7 = Entertainment
- 8 = Foreign Representation
- 9 = Government Department
- 10 = Health Service
- 11 = Library
- 12 = Museum
- 13 = Municipal
- 15 = Police

- 16 = Post Office
- 17 = Recreation
- 18 = Refuse Site
- 19 = Shopping Centre
- 20 = Societies Institutes Research
- 21 = Sport
- 22 = Tourism Information
- 23 = Transport
- 24 = Worship Place
- 25 = Social Service

f) Domains:

Class:

1) Education

- 35 = Primary
- 36 = Secondary
- 37 = Tertiary

2) Emergency Services

- 40 = Ambulance
- 41 = Fire Brigade

3) Entertainment

- 45 = Cinema
- 46 = Theatre
- 47 = Casino

4) Foreign Representation

- 50 = Embassy
- 51 = High Commission
- 52 = Liaison Office
- 53 = Consulate

5) Health Services

- 60 = Clinic
- 61 = Hospital

6) Libraries

- 65 = Community
- 66 = Community School
- 67 = Depot

7) Municipal

- 70 = Main Office
- 71 = Regional Office
- 72 = Other Admin Office
- 73 = City Hall
- 74 = Depot
- 75 = Other

8) Museum

- 80 = Art
- 81 = Cultural

9) Refuse Site

- 85 = Building/Garden/Household/Industrial/Weighbridge
- 86 = Building/Garden/Household/Industrial
- 87 = Building/Garden
- 88 = Garden
- 89 = Bulk Containers

- 10) Sports
 - 95 = Centre
 - 96 = Club
 - 97 = Country Club
 - 98 = Open Facility
 - 99 = Multi Sport Venue
 - 100 = Scraped Open Facility
 - 101 = Stadium
 - 102 = Association
- 11) Accommodation
 - 115 = Hotel
- 12) Worship
 - 125 = Assembly
 - 126 = Cathedral
 - 127 = Centre
 - 128 = Church
 - 129 = Cultural Church
 - 130 = Mosque
 - 131 = Seminary
 - 132 = Synagogue
 - 133 = Temple
- 13) Recreation
 - 135 = Park
 - 136 = Resort
 - 137 = Pool
 - 138 = Nature Conservation
 - 139 = Ice Rink
 - 140 = Caravan Park
- 14) Social Services
 - 145 = Care Centre
 - 146 = Children’s Home
 - 147 = Old Age Home
- 15) Cultural Site
 - 155 = Site
 - 156 = Monument
 - 157 = Memorial
 - 158 = Statue
- 16) Shopping Centre
 - 165 = Regional Centre
 - 166 = Community Centre
 - 167 = Neighbourhood Centre
 - 168 = Convenience Centre
 - 169 = Value Centre
 - 170 = Hypermarket
- 17) Transport
 - 180 = Airport

3.3. Data Set: Transportation_Network Feature Class

a) Abstract:

Feature class indicating road centrelines.

b) Content Status:

Relevant Time Period: Current

Update Frequency: Continuous

c) Constraints on accessing and using the data:

Access constraints: Limited access. The following fields, only, are available to the public:

- ObjectID
- Name
- Type
- Class (domain values 0 to 11 & 13)
- Road_Status (domain values 0 to 2)
- Street_Type
- Street_Suffix
- Date_Captured
- Date_Modified
- Shape

Use constraints: None

d) Attributes:

Data Element	Description	Data Format
ObjectID	System Object Identifier	Object ID
Name	Name of road	Text (40)
Type	Type of road *	Long Integer
Class	Class of road *	Text (50)
Road_Status	Status of the road *	Text (15)
Street_Type	Street classification *	Text (15)
Street_Suffix	Abbreviation of Street Type	Text (10)
Date_Captured	Date of Capture	Date
Date_Modified	Date of Amendment	Date
Shape	Spatial Entity geometry	Line
Shape.Len	Length of Spatial Entity	Double

e) SubTypes:

Type:

- 0 = Road

f) Domains:

Class:

Roads

- 00 = National Freeway
- 01 = National Route
- 02 = Provincial Freeway
- 03 = Provincial Route
- 04 = Main Road
- 05 = Street
- 06 = Major Gravel
- 07 = Minor Gravel
- 08 = Access Road
- 09 = On-Ramp

- 10 = Off-Ramp
- 11 = Tunnel
- 13 = Pedestrian

Road_Status:

- 0 = Approved
- 1 = SGO – Built
- 2 = As Built

Street_Type:

- 0 = Street
- 1 = Avenue
- 2 = Road
- 3 = Drive
- 4 = Crescent
- 5 = Place
- 6 = Close
- 7 = Lane
- 8 = Boulevard
- 9 = None

Street_Suffix:

- 0 = St
- 1 = Ave
- 2 = Ro
- 3 = Dr
- 4 = Cr
- 5 = Pl
- 6 = Cl
- 7 = Ln
- 8 = Blvd
- 9 = None

4. Cartography_Topography Feature Dataset

a) Contact Information:

Contact Person: Chris Labuschagne
Deputy Director: Cartographic Management
Section: Corporate GIS Management

Contact Details: Tel: +27 12 358 7815
Email: chrisl@tshwane.gov.za

b) Abstract:

Topographical spatial data within the Tshwane Municipal boundary.

4.1 Data Set: Contours_2013_1M Feature Class

a) Abstract:

A feature class containing 1m elevation contours for Tshwane

b) Content Status:

Relevant Time Period: 2013

Update Frequency: Periodic

c) Constraints on accessing and using the data:

Access constraints: None (data supplied in ESRI File Geo-database format)

Use constraints: None

d) Attributes:

Data Element	Description	Data Format
ObjectId	System Object Identifier	Object ID
Elevation	Contour height	Double
Shape	Spatial Entity geometry	Line
Shape.Len	Length of Spatial Entity	Double

e) SubTypes:

None

f) Domains:

None

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