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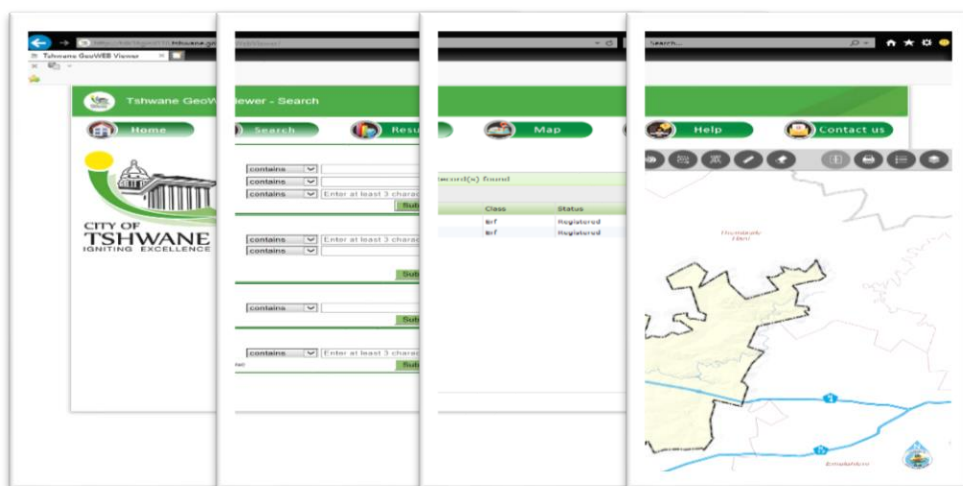
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1 Introduction

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The *e-GIS Viewer* is a Web GIS solution implemented on the **Internet** and was designed to utilise a range of tools, spatial analysis functionality, the ability to integrated business processes and information to assist the public with geographical information of The City Of Tshwane.



2.1 How can I get a Zoning certificate?

To obtain a zoning certificate, please contact your nearest walk-in centre. The address of nearest walk in centre can be identified on the Maps and GIS page of the Tshwane website, under the “[Order Maps/Data](#)” link. Or email the GeoInfoService at GeoInfoService@TSHWANE.GOV.ZA and request a zoning certificate.

2.2 How can I get the SG diagrams of my stand?

You can get the SG diagrams from the SG office. Or email the GeoInfoService at GeoInfoService@TSHWANE.GOV.ZA and request the SG diagram/s certificate.

2.3 How do I get the current owner of a property?

You need to contact the Deeds Office ([DeedsWEB](#)).

2.4 How do I switch on the greyed-out layers in the Layer Manager?

The Layer Manager displays the available layers on the scale that the map is on (scale dependent).

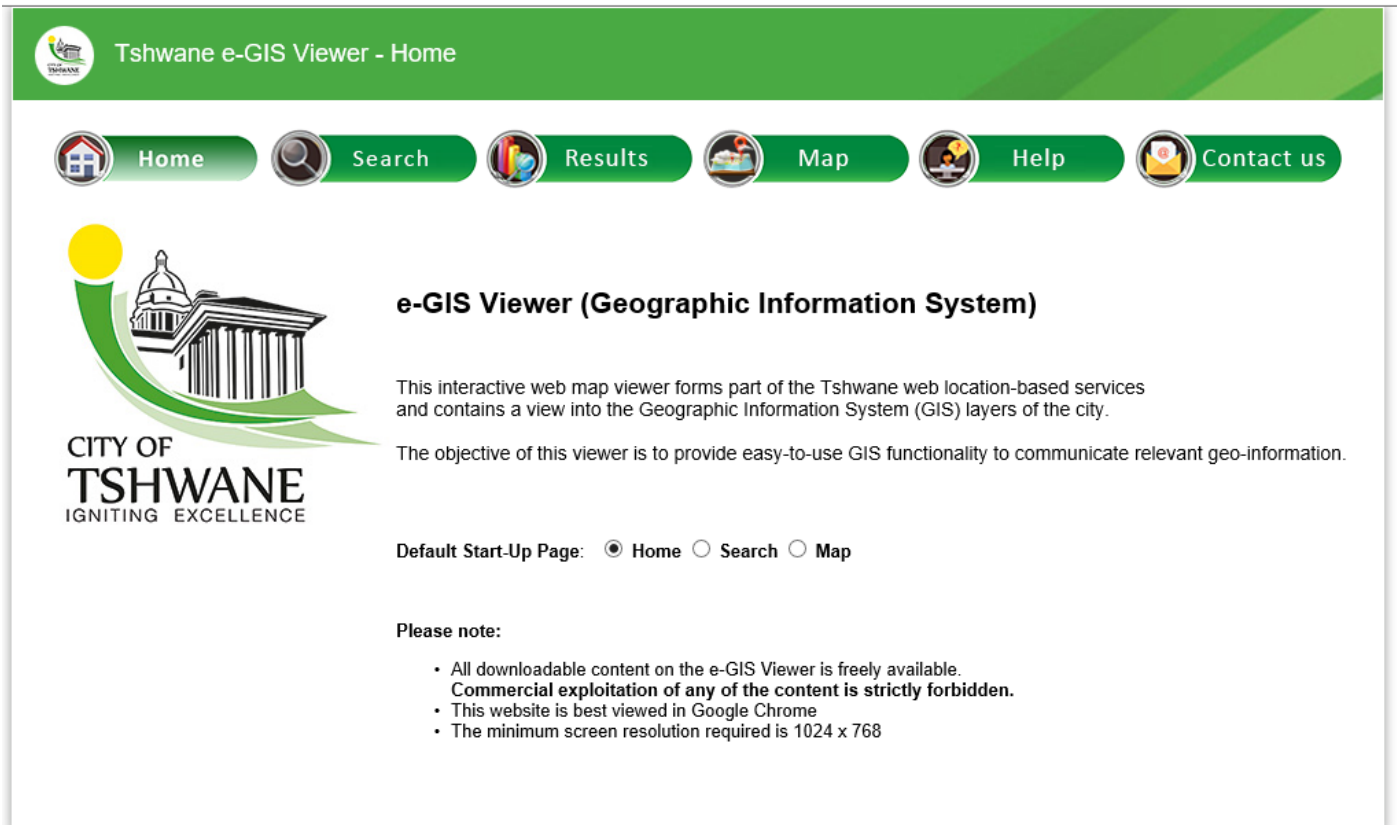
E.g. The RSDF layer begins to display from 1:577 800. TRT (A Re Yeng) begins to display from 1:72 200. Stormwater begins to display from 1:9 000.

Zoom into the map until the layer is no longer greyed out by using the “Zoom In” tool or by scrolling forward with the mouse wheel.

2.5 I wish to sign in to the Portal. Can you please assist me?

Unfortunately, we do not allow the public to register on The City of Tshwane’s Geospatial Portal.

The “Home” page is the homepage of the *e-GIS Viewer* where information, settings and hints are found.



Tshwane e-GIS Viewer - Home

Home Search Results Map Help Contact us

CITY OF TSHWANE
IGNITING EXCELLENCE

e-GIS Viewer (Geographic Information System)

This interactive web map viewer forms part of the Tshwane web location-based services and contains a view into the Geographic Information System (GIS) layers of the city.

The objective of this viewer is to provide easy-to-use GIS functionality to communicate relevant geo-information.

Default Start-Up Page: Home Search Map

Please note:

- All downloadable content on the e-GIS Viewer is freely available. **Commercial exploitation of any of the content is strictly forbidden.**
- This website is best viewed in Google Chrome
- The minimum screen resolution required is 1024 x 768


- Default Start-Up Page: Choose the default landing page when the viewer loads by selecting one of the following options: **Home, Search or Map.**


The “Please note” at the bottom of the page informs the user of basic minimum requirements that works best for the e-GIS Viewer and how to implement basic settings. Please note that other browsers can also be used, but some functionality might not operate optimally.


4 Search


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The “Search” page has six different search options to search for, a property, township, sectional scheme information, or point of interest, etc.



Tshwane e-GIS Viewer - Search


 Home


 Search

 Results

 Map

 Help

 Contact us


Erf or Farm Portion Search 

Erf No

Portion No (Erf Ptn / Farm Ptn)

Township / Farm Name*

Enter township name (e.g. Sin for Sinoville)


Street Name and Number Search 

Street No

Street Name*

Township / Farm Name


Enter street name (e.g. Mar for Marija)

Sectional Scheme Search 

Sectional Scheme Name*


Unit No

Enter sectional scheme name (e.g. Ben Villa Hof)

Township or Farm Search 


Township / Farm Name

Enter township name (e.g. Sin for Sinoville)

GIS Key (LIS Key) Search 

GIS Key


Enter GIS Key (from Municipal Account)

Point of Interest Search 

POI Name

Enter POI name or part thereof (e.g. Menlyn or Hospital)

* Required

 Clear

- Required fields are indicated by an asterisk (*).
- The “Search” page has different options of searching for information within the City of Tshwane.

Search Options	Field(s) to search for information
Erf or Farm Portion	Erf number, portion number (includes erf portion or farm portion) and township or farm name*
Street Name and Number	Street number, street name* and township or farm name
Sectional Scheme	Sectional scheme name* and unit number
Township or Farm	Township or farm name
GIS Key (LIS Key)	GIS key also known as LIS key
Points of Interest	Point of interest (POI) name

- At the bottom right of the page is a **Clear** button which will clear all the fields on the page.

Erf or Farm Portion Search

Erf No contains

Portion No contains
(Erf Ptn / Farm Ptn)

Township / Farm Name* contains
Enter township name (e.g. Sin for Sinoville)

Field	Criterion
Erf No	Provide a full or a partial erf number of the property (more characters provides a more detailed result). Note, only formal properties can be searched for.
Portion No	Enter a farm portion or erf portion number.
Township / Farm Name	A full or partial township or farm name is required (*). Supply at least 3 characters. (more characters provides a more detailed result). Note, only formal townships can be searched for.

Street Name and Number Search

Street No contains

Street Name* contains

Township / Farm Name contains
Enter street name (e.g. Mar for Marija)

Field	Criterion
Street No	Provide a full or partial street number. (if available)
Street Name	A full or partial street name is required. (*)
Township / Farm Name	Provide a full or partial township or farm name. Supply at least 3 characters. (more characters provides a more detailed result)

Sectional Scheme Search

Sectional Scheme Name* contains

Unit No contains

Enter sectional scheme name (e.g. Ben Villa Hof) Submit Query

Field	Criterion
Sectional Scheme Name	A full or partial sectional scheme name is required. (*)
Unit No	Provide a full or partial sectional scheme unit number.

Township or Farm Search

Township / Farm Name contains

Enter township name (e.g. Sin for Sinoville) Submit Query

Field	Criterion
Township / Farm Name	Provide a full or partial township or farm name. Supply at least 3 characters. (more characters provides a more detailed result)

GIS Key (LIS Key) Search

GIS Key contains

Enter GIS Key (from Municipal Account) Submit Query

Field	Criterion
GIS Key	Provide a full or partial GIS key. (more characters provides a more detailed result)

Point of Interest Search

POI Name contains

Enter POI name or part thereof (e.g. Menlyn or Hospital)

Field	Criterion
POI Name	Provide a full or partial place of interest name. Supply at least 3 characters. (more characters provides a more detailed result)

The “Results” page display’s the results of the respective search option.

Erf or Farm Portion Search - Results

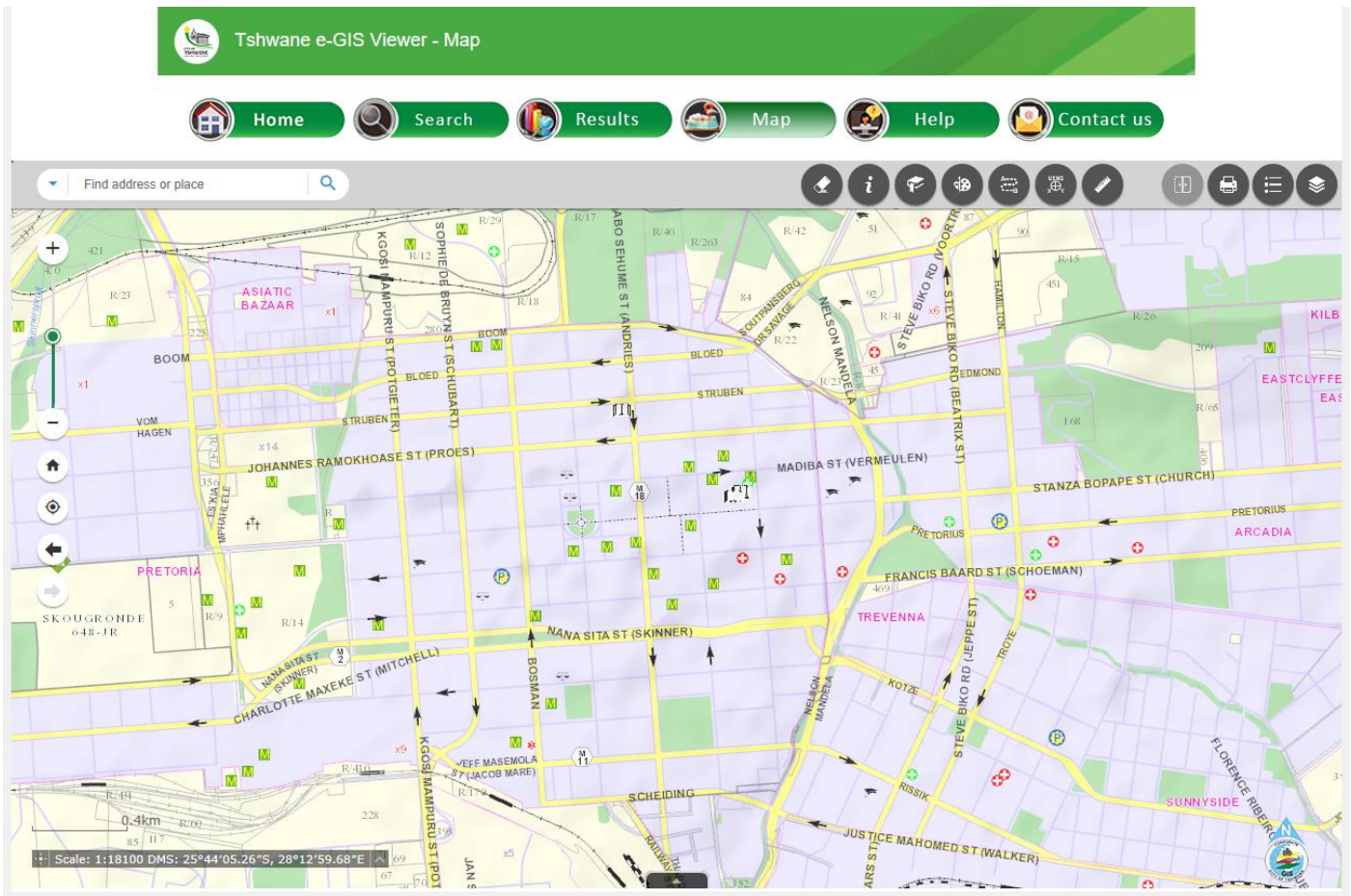
122 Record(s) found

GIS Key	Property No	Township / Farm Name	Street No	Street Name	Class	Legal Area (m2)	Options
039400112	112	MAMELODI SUN VA...	61	MPHOKENG DRIVE	Erf	350	Select
039400120	120	MAMELODI SUN VA...	73	RAMMALA STREET	Erf	560	Select
039400121	121	MAMELODI SUN VA...	71	RAMMALA STREET	Erf	618	Select
039400212	212	MAMELODI SUN VA...	24	MEDUPI STREET	Erf	500	Select
039400312	312	MAMELODI SUN VA...	14	MOGOLODI CRESC...	Erf	434	Select
039400412	412	MAMELODI SUN VA...	14	LESETJA STREET	Erf	375	Select
039400512	512	MAMELODI SUN VA...	59	RAMMALA PLACE	Erf	328	Select
039400612	612	MAMELODI SUN VA...	61	MEDUPI STREET	Erf	300	Select
065900012	12	SUNDERLAND RIDGE	13	ELLMAN STREET	Erf	2775	Select
065900120	120	SUNDERLAND RID...	121	VAN TONDER STRE...	Erf	2882	Select
065900121	121	SUNDERLAND RID...	117	VAN TONDER STRE...	Erf	2882	Select
065900122	122	SUNDERLAND RID...	113	VAN TONDER STRE...	Erf	2882	Select
065900123	123	SUNDERLAND RID...	111	VAN TONDER STRE...	Erf	2882	Select
065900124	124	SUNDERLAND RID...	109	VAN TONDER STRE...	Erf	4181	Select
065900125	125	SUNDERLAND RID...	107	VAN TONDER STRE...	Erf	4938	Select

- Different search options have different corresponding information results. Note, a maximum of 200 records will return in the **Results** page. Define your search by adding more characters, this will return more defined results.
- The field width is adjustable and have sortable columns. Click on field name to sort from smallest to largest and inversely or A to Z and inversely.
- The “Select” button in the **Options** column provides the following types of options:

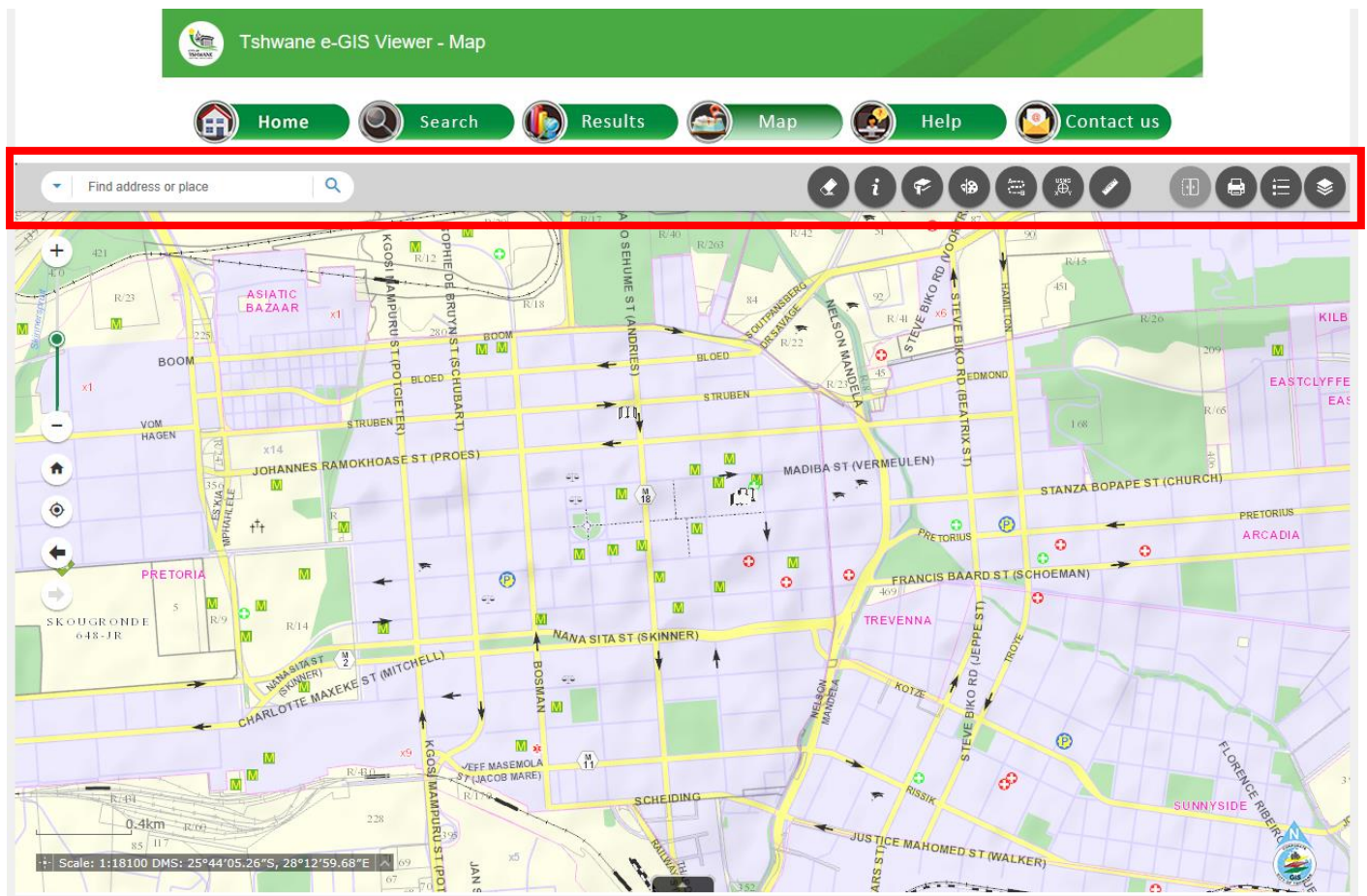
“Options”	Description
Zoom to Map	The selected record will be displayed on the map.
Print Report (only available when search for a property)	A report will be generated with information of the property.
Print Report & Map (only available when search for a property)	Similar to Print Report with an added map of the property. Note, the timeframe for generating the Standard Report & Map print file will take significantly longer than creating a Standard Report print file.

The “Map” page is the interactive Map Viewer which displays the location of information within the City of Tshwane.

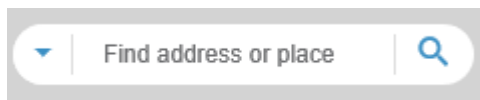


- The Map Viewer consist of the following functionality areas:

Functionality areas	Items
Map Toolbar	Locator (“Find address or place”), Identify, Layer Manager, etc.
Zoom Bar	Zoom in/out slider bar, Default extent, Previous extent, Next extent
Scale and Coordinate Bar	DMS, WGS 84 (m)



6.1.1 City of Tshwane Locator or Geocoder



The functionality provides the option to search from general information within the City of Tshwane. This searching method includes, street addresses, townships, farms, places of interest and more.

Hint:

- To refine a search for an **Erf** of a Township, start search with “STAND” e.g. “STAND 24, BROOKLYN”
- To refine a search for an **Agricultural Holding** of an Agricultural Holding Township, start search with “PLOT” e.g. “PLOT 146, RASLOUW”
- To refine a search for a **Farm Portion** of a Farm, start search with “PTN” e.g. “PTN 108, HENNOPSRIVER 489JQ”

Clears all the user created graphics, text and selections on map.



Clear All

View attribute values for a feature, using the **Identify** tool.

Identify	Description
▼ Land Information	
<input checked="" type="checkbox"/>	Basemap
<input type="checkbox"/>	Sectional Scheme
<input type="checkbox"/>	Multiple Service Point
<input type="checkbox"/>	Restriction
▶ Political & Administrative Boundaries	
▶ Services	

- Check the “Identify” box of a specific layer. This will enable the identify pop-up feature in the Map.

Identify tool subsections expanded

▼ Land Information	
<input checked="" type="checkbox"/>	Basemap
<input type="checkbox"/>	Sectional Scheme
<input type="checkbox"/>	Multiple Service Point
<input type="checkbox"/>	Restriction

Identify tool subsections expanded	
	<div style="border: 1px solid #ccc; padding: 5px;"> <div style="background-color: #92d050; padding: 2px 5px;">▼ Political & Administrative Boundaries</div> <div style="padding: 5px;"> <input type="checkbox"/> Region <input type="checkbox"/> Ward </div> <div style="background-color: #d9d9d9; padding: 2px 5px;">▶ Services</div> </div>
	<div style="border: 1px solid #ccc; padding: 5px;"> <div style="background-color: #92d050; padding: 2px 5px;">▼ Services</div> <div style="padding: 5px;"> <input type="checkbox"/> Road Master Plan <input type="checkbox"/> Sanitation <input type="checkbox"/> TRT (A Re Yeng) <input type="checkbox"/> Zoning </div> </div>

Click on the map to identify the feature.

Hint: The "X" in the tool box heading closes the tool box.

6.1.4 Bookmark

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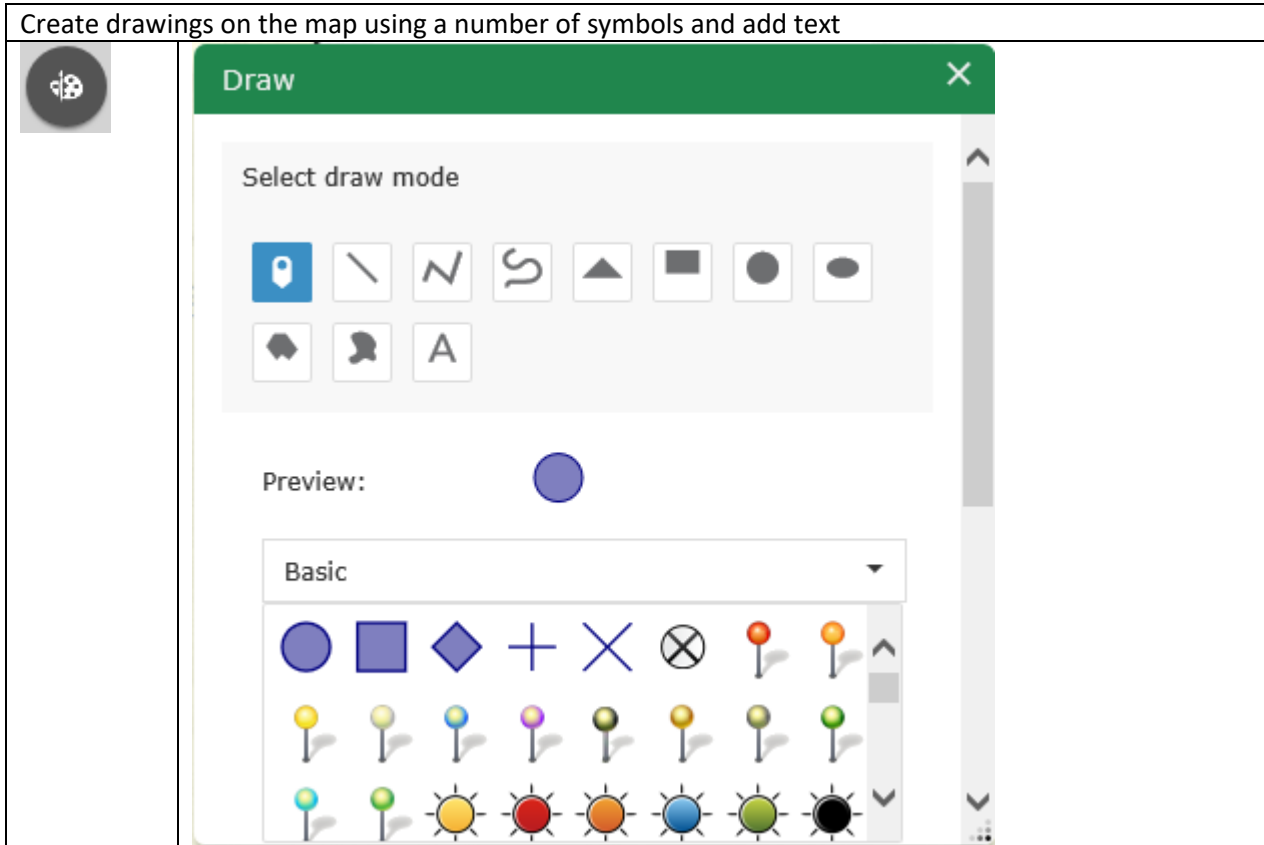
Default **Bookmarks** are available for rapidly zooming to a predefined map view location.

Bookmark
×

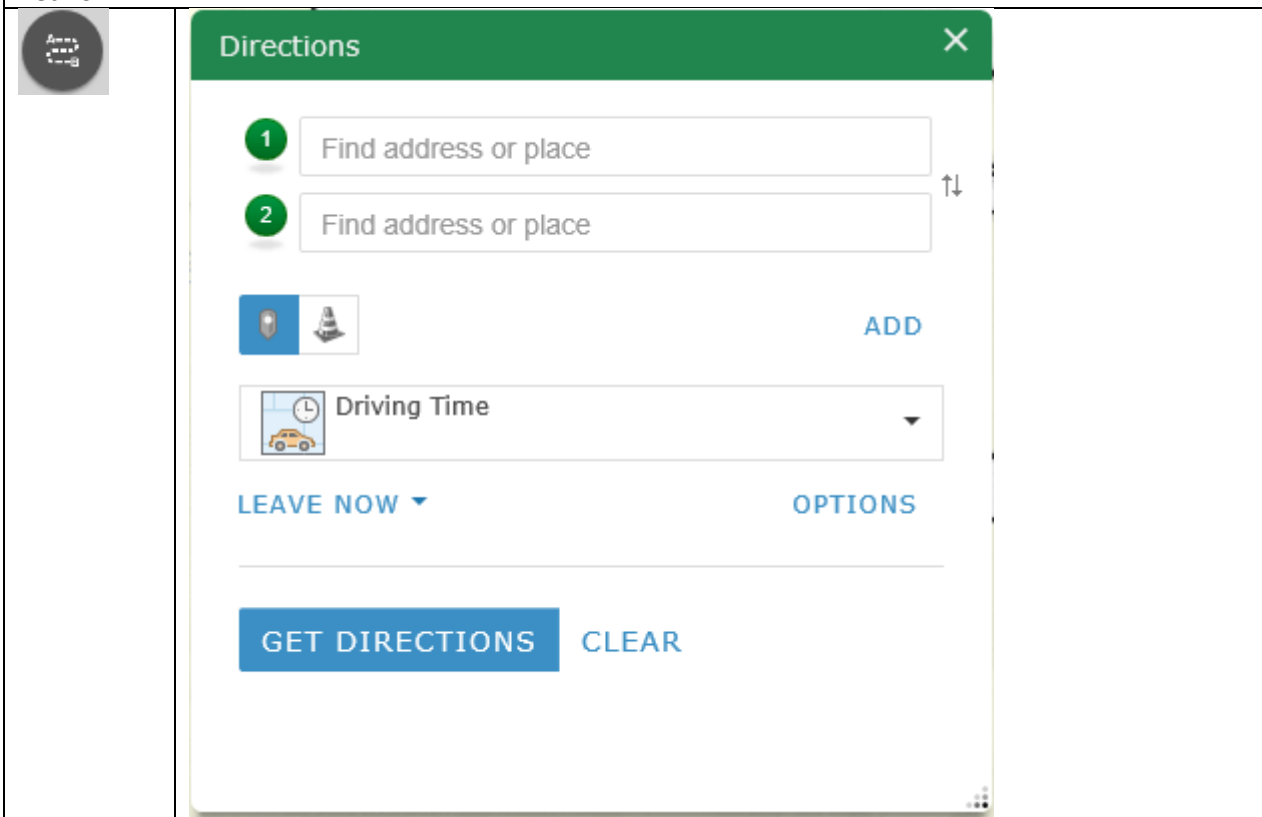
Bookmarks


- Atteridgeville
- Akasia
- Bronkhorstspuit
- Centurion City
- Cullinan
- Freedom Park
- Mamelodi

- Click ⋮ to add a bookmark of the current extent (area zoomed into on the map) which will be added to the bottom of the list.
- Click ✖ to remove the added bookmark.




The **Directions** tool provides an option to navigate from one location to another along the road network.



Clicking on “GET DIRECTIONS” will provide a file of the route description and click on  to print the file.

Hint: “Find address or place” is similar to the Locator or Geocoder.

Use the Coordinate tool to find or identify a location on the map.	
	<p>WGS 84 (Central Meridian 29 degrees)</p> <p> <input checked="" type="radio"/> WGS 84 (CM 29°) <input type="radio"/> DecDeg <input type="radio"/> DMS <input type="radio"/> DecMin </p> <p>Y: <input type="text" value="64859.3"/> m</p> <p>X: <input type="text" value="2836789.3"/> m</p> <p> <input type="button" value="Get Location"/> <input type="button" value="Clear"/> </p>
	<p>Decimal Degrees</p> <p> <input type="radio"/> WGS 84 (CM 29°) <input checked="" type="radio"/> DecDeg <input type="radio"/> DMS <input type="radio"/> DecMin </p> <p>Latitude: <input type="text" value="28.295261"/> ° S</p> <p>Longitude: <input type="text" value="27.295261"/> ° E</p> <p> <input type="button" value="Get Location"/> <input type="button" value="Clear"/> </p>
	<p>Degrees Minutes Seconds</p> <p> <input type="radio"/> WGS 84 (CM 29°) <input type="radio"/> DecDeg <input checked="" type="radio"/> DMS <input type="radio"/> DecMin </p> <p>Latitude: <input type="text" value="Deg"/> ° <input type="text" value="Min"/> ' <input type="text" value="Sec"/> " S</p> <p>Longitude: <input type="text" value="Deg"/> ° <input type="text" value="Min"/> ' <input type="text" value="Sec"/> " E</p> <p> <input type="button" value="Get Location"/> <input type="button" value="Clear"/> </p>
	<p>Decimal Minutes</p> <p> <input type="radio"/> WGS 84 (CM 29°) <input type="radio"/> DecDeg <input type="radio"/> DMS <input checked="" type="radio"/> DecMin </p> <p>Latitude: <input type="text" value="Deg"/> ° <input type="text" value="Min"/> ' S</p> <p>Longitude: <input type="text" value="Deg"/> ° <input type="text" value="Min"/> ' E</p> <p> <input type="button" value="Get Location"/> <input type="button" value="Clear"/> </p>

Measure distance and area on the map using Metric or Imperial systems.

Polygon: Click on map to draw polygon. Double click to stop drawing.

The screenshot shows the 'Measurement' tool interface. At the top, there is a green header with the word 'Measurement' and a close button. Below the header is a toolbar with three icons: a polygon icon (highlighted), a line icon, and a ruler icon. A dropdown menu is open, showing a list of area units: 'Sq Kilometers' (selected), 'Acres', 'Sq Miles', 'Sq Kilometers', 'Hectares', 'Sq Yards', 'Sq Feet', 'Sq Feet (US)', and 'Sq Meters'. The interface is set to draw a polygon.

Line: Click points on the map to draw a line. Double click to stop drawing.

The screenshot shows the 'Measurement' tool interface. At the top, there is a green header with the word 'Measurement' and a close button. Below the header is a toolbar with three icons: a polygon icon, a line icon (highlighted), and a ruler icon. A dropdown menu is open, showing a list of distance units: 'Kilometers' (selected), 'Miles', 'Kilometers', 'Feet', 'Feet (US)', 'Meters', 'Yards', and 'Nautical Miles'. The interface is set to draw a line.

Point: Add a point/marker on the map in either Degrees or DMS by clicking the desired location (an alternative option to retrieve coordinates).

Measurement [X]

[Ruler] [Double Arrow] [Document]

Degrees ▾

Measurement Result

Latitude	Longitude
-25.756041	28.201916
-25.756435	28.202632



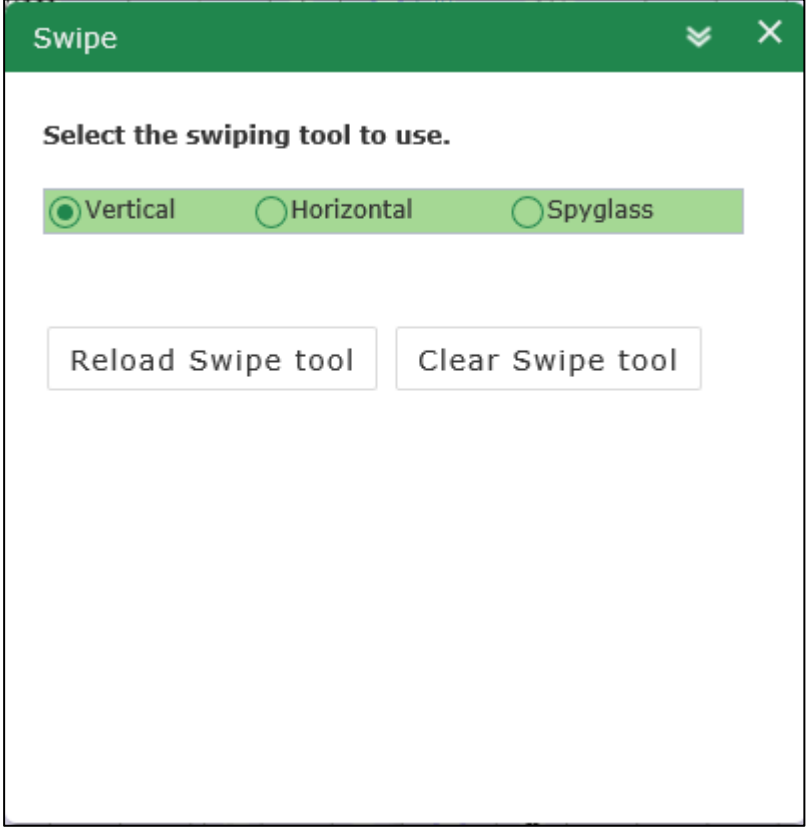
Measurement [X]

[Ruler] [Double Arrow] [Document]

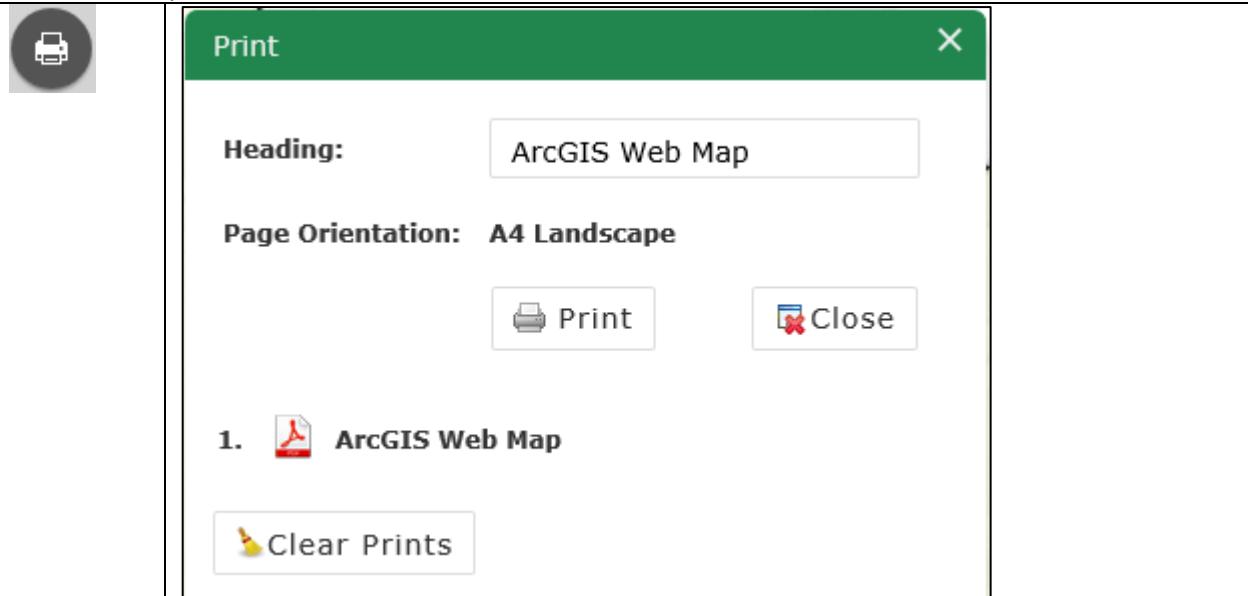
DMS ▾

Measurement Result

Latitude	Longitude
-25°45'21.48"	28°12'9.61"
-25°45'23.17"	28°12'9.47"

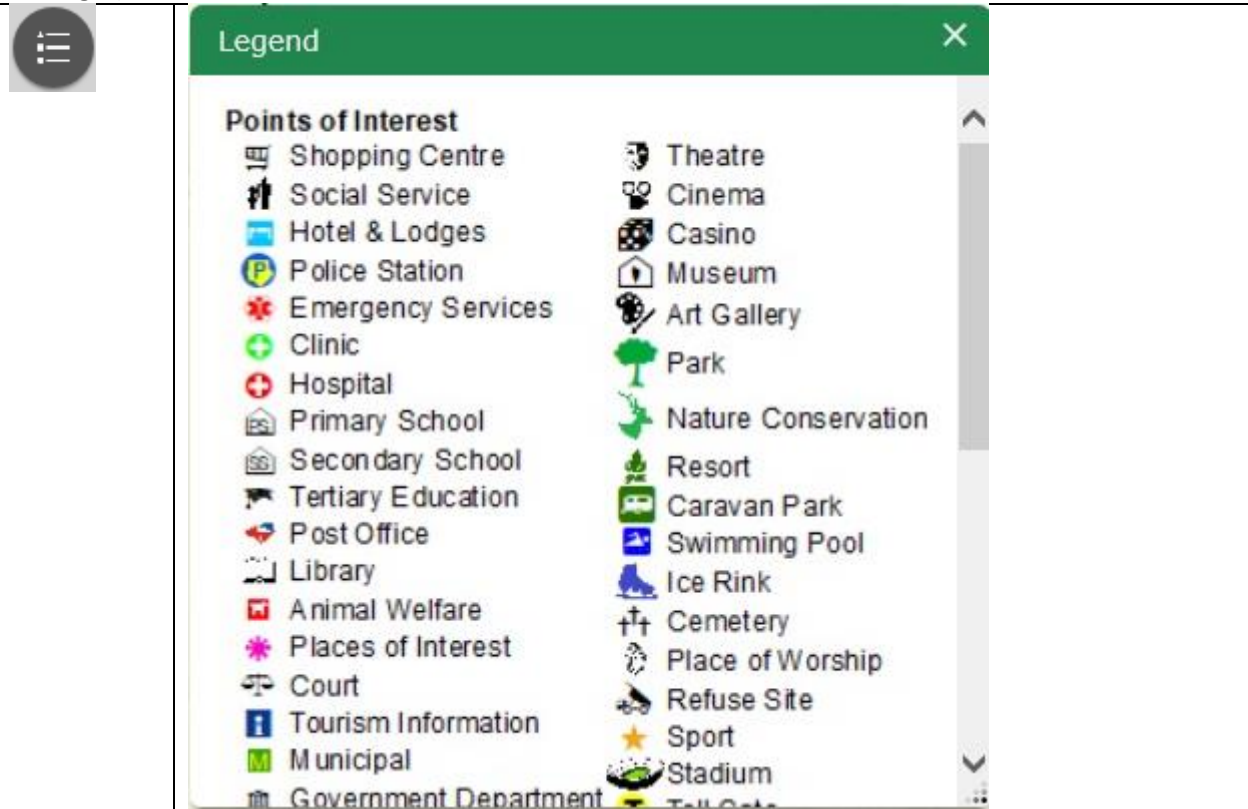
	<p>The Swipe tool reveals the differences between two layers.</p> <p>The greyed-out tool image will display if no other layer has been selected to swipe with. A second layer must be selected visible in the “Layer Manager” to utilize this tool.</p>
	 <ul style="list-style-type: none">• Click on the arrows box and drag to the direction of the arrows.• The “Spyglass” only displays a circle which can be dragged around on the map.• The “Clear Swipe tool” button deactivates the tool.

Prints the map view to a PDF document.

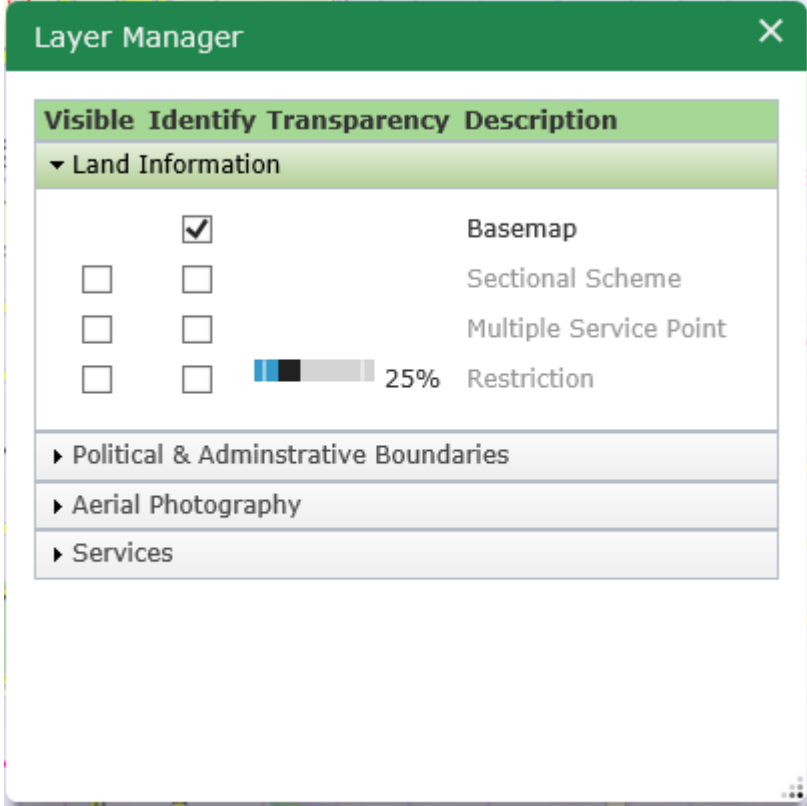


- Select the desired orientation (Landscape or Portrait)
- Provide a custom map name in the “Heading” field.
- Click on “Print” to create a PDF document.
- Note: Symbology of visible layers in the Layer Manager will automatically display in the predefined Legend.
- More than one PDF document can be created.
- The “Clear Prints” button clears all PDF documents.


Displays the symbology of only visible Layers on the map (checked in the Visible box in the Layer Manager)




Manages all layers in the Map Viewer.








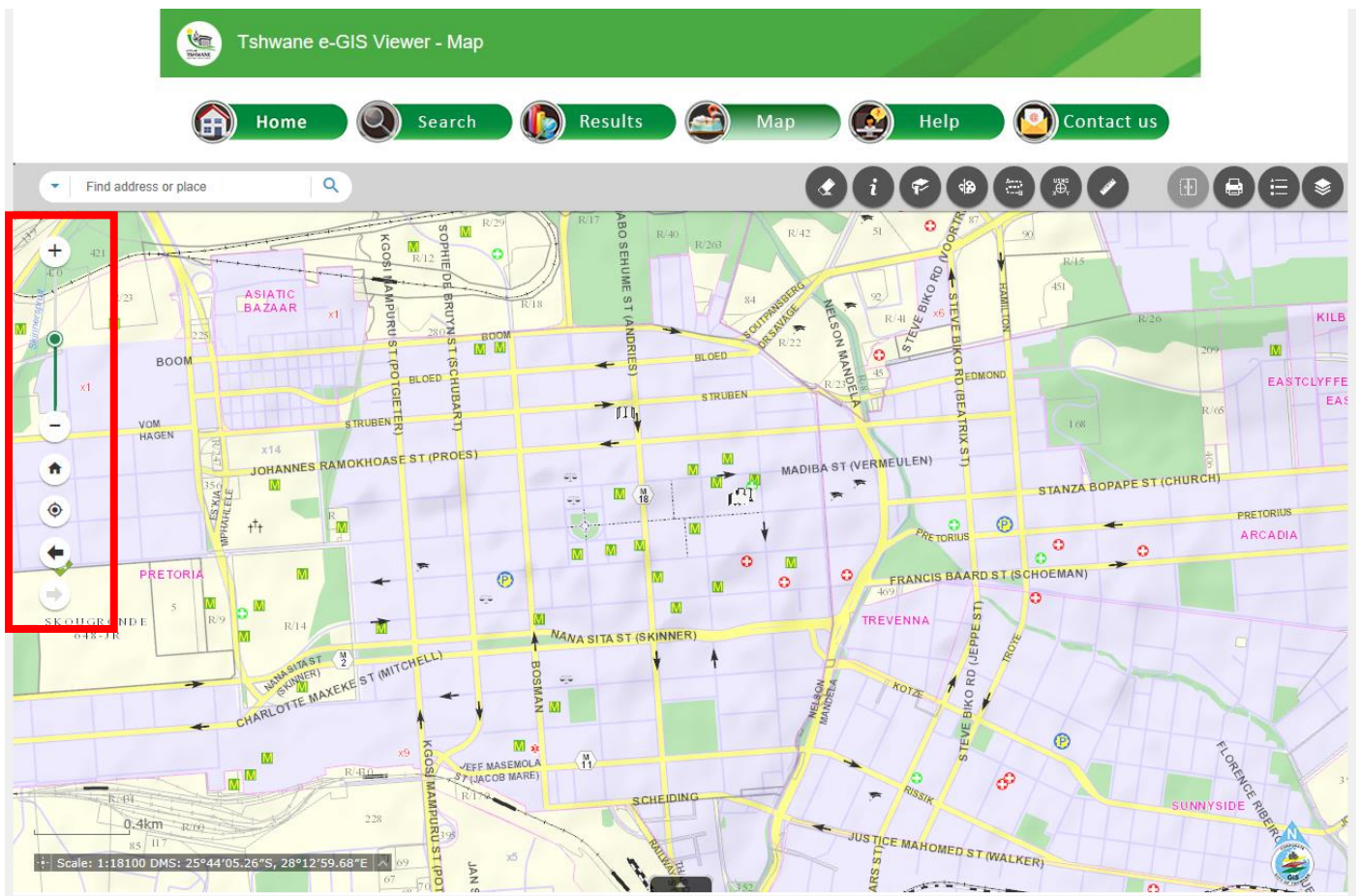
The screenshot shows the Layer Manager dialog box with the following content:

Visible	Identify	Transparency	Description
Land Information			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Basemap
<input type="checkbox"/>	<input type="checkbox"/>		Sectional Scheme
<input type="checkbox"/>	<input type="checkbox"/>		Multiple Service Point
<input type="checkbox"/>	<input type="checkbox"/>	 25%	Restriction
▶ Political & Administrative Boundaries			
▶ Aerial Photography			
▶ Services			

- Check the “Visible” box of a specific layer to view it.
- Check the “Identify” box of a specific layer to enable the identify pop-up feature (similar to the “Identify Manager” tool).
- Set transparency  25% by dragging the slider to the left or the right.

Layer Manager tool subsections expanded

Visible		Identify		Transparency		Description	
▼ Land Information							
<input checked="" type="checkbox"/>							Basemap
<input type="checkbox"/>	<input type="checkbox"/>						Sectional Scheme
<input type="checkbox"/>	<input type="checkbox"/>						Multiple Service Point
<input type="checkbox"/>	<input type="checkbox"/>		25%				Restriction
▼ Political & Administrative Boundaries							
<input type="checkbox"/>	<input type="checkbox"/>						Region
<input type="checkbox"/>	<input type="checkbox"/>						Ward
▼ Aerial Photography							
<input type="checkbox"/>			25%				Aerial Photo (2018)
▼ Services							
<input type="checkbox"/>							Contour
<input type="checkbox"/>			25%				RSDf 2013
<input type="checkbox"/>			25%				RSDf 2018
<input type="checkbox"/>	<input type="checkbox"/>						Road Master Plan
<input type="checkbox"/>	<input type="checkbox"/>						Sanitation
<input type="checkbox"/>							Stormwater
<input type="checkbox"/>	<input type="checkbox"/>						TRT (A Re Yeng)
<input type="checkbox"/>	<input type="checkbox"/>		25%				Zoning




6.2.1 Zoom in/out slider bar

	<p>Use the + and – symbols to zoom in and out of the map.</p> <p>Alternative Options:</p> <ul style="list-style-type: none"> • Hold down the “Shift” keyboard key and click and drag a red square of a specific area you want to zoom in to. • Scroll your PC mouse forward (zoom-in) or backwards (zoom-out)
--	---


6.2.2 Default extent

[Top](#)

	Click on the "Default Extent" tool to show the whole map on the screen.
---	---


6.2.3 Previous extent

[Top](#)

	Click on the "Previous extent" tool to zoom to the previous extents.
---	--


6.2.4 Next extent

[Top](#)

	Click on the "Next extent" tool to zoom to the next extents previously zoomed to.
---	---

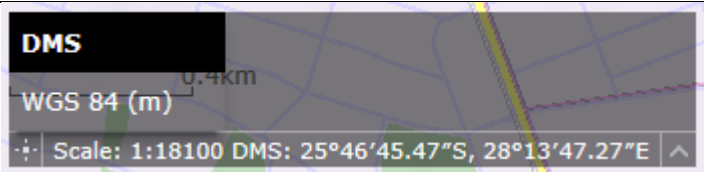


6.3 Scale and Coordinate bar


[Top](#)


<ul style="list-style-type: none">• The scale bar displays the current scale you are zoomed in to in a line bar format.• The scale and coordinate bar displays the current scale you are zoomed in to in a decimal format. Next to the scale is the coordinates of the mouse located on the map. The default coordinate format is DMS (Degree Minutes Seconds).• The Enter Coordinate tool can also be used to view the location on the map.



6.3.1 DMS

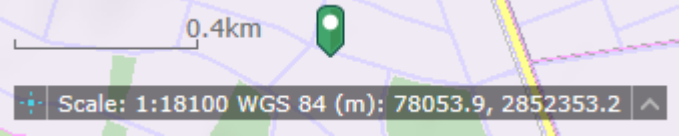
[Top](#)


<ul style="list-style-type: none">• The default coordinate format is DMS (Degree Minutes Seconds).• By moving the mouse pointer around on the map the coordinate's changes.• To add a marker on the map and display its coordinates of the marker, click on the symbol on the far left of the scale and coordinate bar. Symbol:  ; Marker: • As you click on the map, a marker will display and the coordinates will stay fixed in the Scale and Coordinate bar for you to copy. To copy the coordinates, click and drag your mouse cursor over the coordinates to highlight the coordinates, right click on the mouse and select copy from the list.• To disable the add a marker, "Clear All"

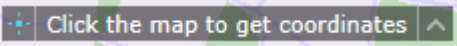


THEN


- The default coordinate format is DMS (Degree Minutes Seconds).
- To view X, Y - coordinates click on arrow on the right-hand side of the Scale and Coordinate bar and select **WGS 84 (m)**. Then click on the “add marker symbol”  to add the marker .



- Note: The coordinates will not change when moving the mouse pointer around on the map. As you click on the map, the coordinates will stay fixed in the scale and coordinate bar for you to copy.

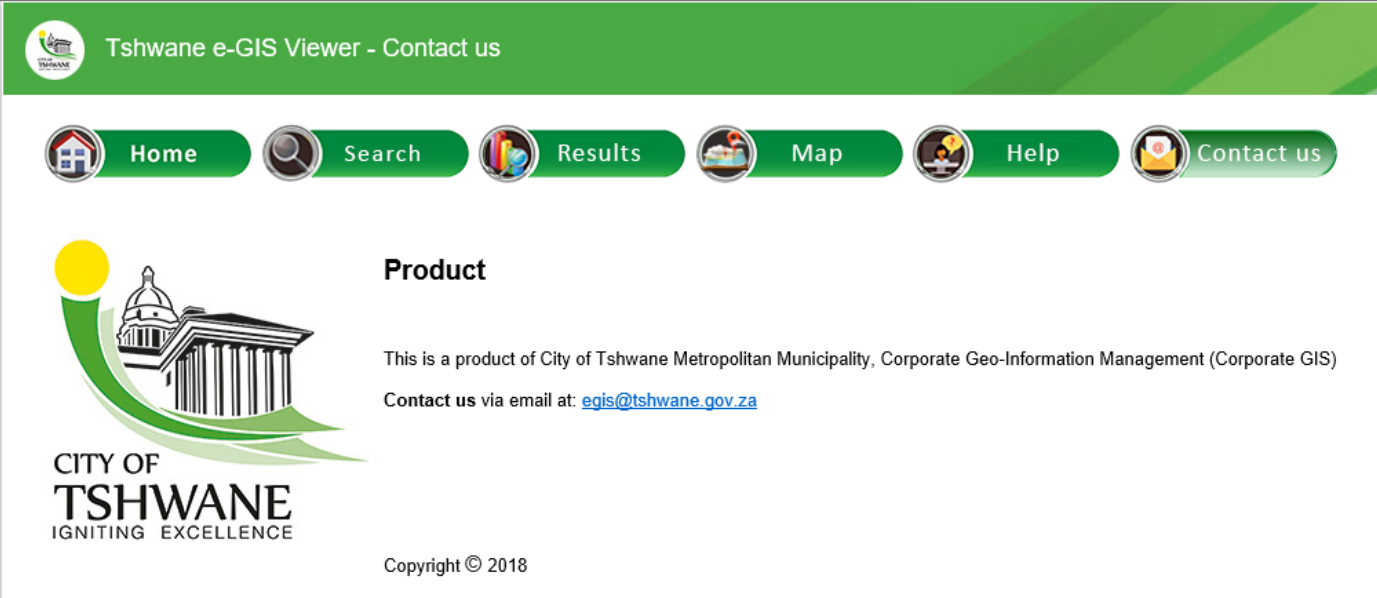


- To copy the coordinates, click and drag your mouse cursor over the coordinates to highlight the coordinates.



- On the highlighted coordinates, right click on the mouse and select copy from the list.

7 Contact us



Tshwane e-GIS Viewer - Contact us

Home Search Results Map Help Contact us

Product

This is a product of City of Tshwane Metropolitan Municipality, Corporate Geo-Information Management (Corporate GIS)

Contact us via email at: egis@tshwane.gov.za

CITY OF TSHWANE
IGNITING EXCELLENCE

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The “Contact us” page displays contact details of e-GIS support (functionality) and data support.