Water District Viewer
User Guide

Application Overview

Contents

The **Water Districts Map Viewer** allows users to view water district boundaries within Texas. The viewer provides search tools and a bi-directional flow tool that link it to the Integrated Water Districts Database (iWDD). These tools allow users to determine if there is a district boundary within a particular area. A district is a political subdivision whose boundaries are created by either a Texas Commission on Environmental Quality order or a Texas legislative bill.

You may use the Water Districts Map Viewer to do the following:
View fifteen different district boundary layers Search by District name to locate district service provider(s) Search by address and street intersection to locate a district (must include city name and/or zip code) Obtain details about a district service provider

Below is listed the fifteen different types of districts with their abbreviated
 acronyms which are displayed within the viewer:
Drainage District (DD)
Fresh Water Supply District (FWSD)
Irrigation District (ID)
Levee Improvement District (LID)
Municipal Management District (MMD)
Municipal Utility District (MUD)
Navigation District (ND)
Regional District (RD)
River Authority (RA)
Soil & Water Conservation District (SWCD)
Special Utility District (SUD)
Storm Water Control District (SCD)
Water Control & Improvement District (WCID)
Water Improvement District (WID) Other (OTH)

Navigating Around the Map

Splash Screen Pop Up:

When first accessing the Viewer, you will see a pop-up that includes disclaimer information on the intended use of the application. Users must select the checkbox next to "I agree to the above terms and conditions" and then the "OK" button will be selectable. Click the OK button to exit the window and continue to view the application.
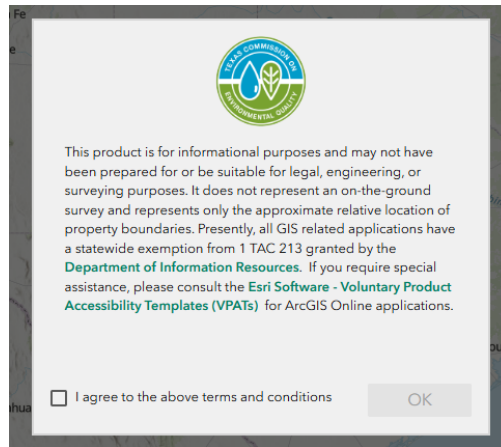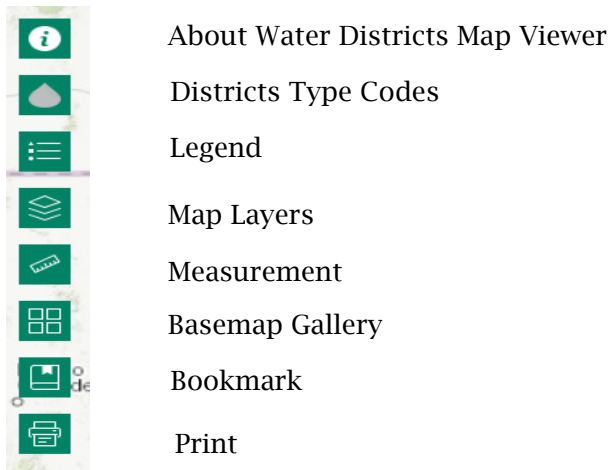

Viewer Header:

The header section of the Viewer includes the Viewer's title and essential information about the Viewer. It provides links to the TCEQ Homepage, the viewer's landing page under the TCEQ Geographic Web Apps page, and the Viewer's User Guide. A version number may also be displayed to assist version control for developers.

Widget Controller:

The widget controller is located on the left-hand side of the Viewer. It hosts individual widgets to conduct varying actions such as measuring or changing the basemap being displayed.

About Water Districts Map Viewer

Districts Type Codes

Legend

Map Layers

Measurement
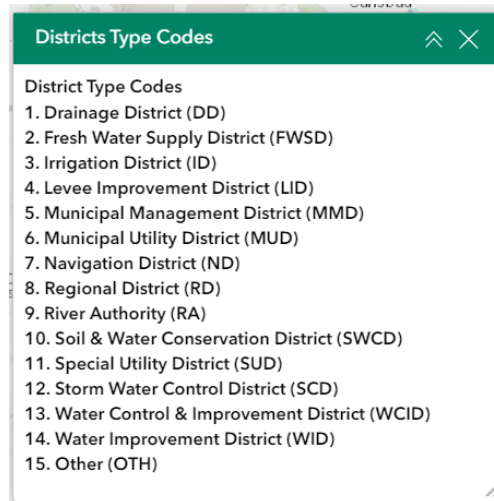
Basemap Gallery

Bookmark

Print

About

- The **About** widget provides users with essential information regarding the application, including its, purpose, user guide, data sources, and any credits or acknowledgements related to the content.

- To use the **About** widget, click on the ⓘ icon in the widget controller

- This opens a brief description of the application
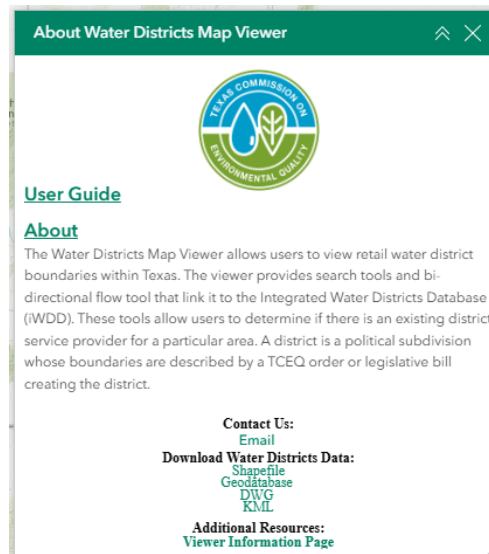
- To close the window, click the ⊠ in the upper right-hand corner.
- To collapse the window, click the ⊼ just to the left of the close button.

District Type Codes

- Click on the **District Type Codes** icon 🌢 to display a list of all the district type codes.

Districts Type Codes ⊼ ⊠

District Type Codes
1. Drainage District (DD)
2. Fresh Water Supply District (FWSD)
3. Irrigation District (ID)
4. Levee Improvement District (LID)
5. Municipal Management District (MMD)
6. Municipal Utility District (MUD)
7. Navigation District (ND)
8. Regional District (RD)
9. River Authority (RA)
10. Soil & Water Conservation District (SWCD)
11. Special Utility District (SUD)
12. Storm Water Control District (SCD)
13. Water Control & Improvement District (WCID)
14. Water Improvement District (WID)
15. Other (OTH)

- To close the window, click the ⊠ in the upper right-hand corner.
- To collapse the window, click the ⊼ just to the left of the close button.

Legend

- The **Legend** widget shows the symbols for the various layers on the map.
- Simply click the **Legend** button ☰ in the widget controller
- To close the window, click the ⊠ in the upper right-hand corner.
- To collapse the window, click the ⊼ just to the left of the close button.
- The legend will only show those layers that are currently turned on using the layers tool.
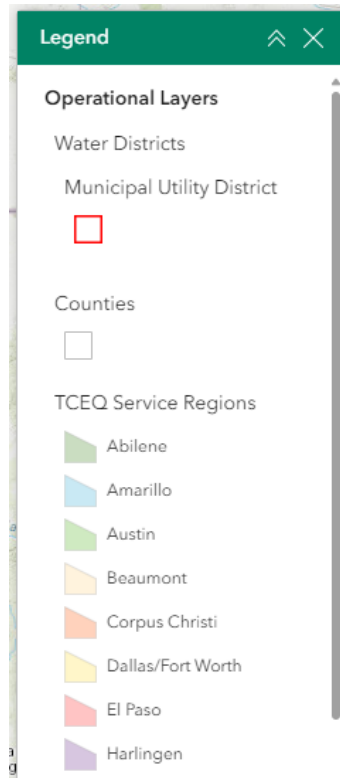
Measurement

- The Measurement widget enables user to calculate the area, and distance directly on the map.
- To measure a feature, click on the **Measurement** ▱ widget in the widget controller.
- The Measurement window will appear as shown below.
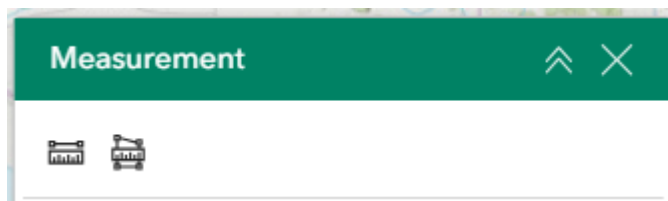
- To close the window, click the ✕ in the upper right-hand corner.
- To collapse the window, click the ≫ just to the left of the close button.
- There are <u>two</u> different ways to measure features on the map:

⊞ **Area** - Click this button, choose a unit of measure from the drop- down list, then single-click the first point of your polygon on the map. Continue to single-click until you have finished measuring your area feature. Double-click to end. Results will appear in the Measurement window.

⊞ **Distance** - Click this button, choose a unit of measurement from the drop- down list, then single-click the first point of your line on the map. Continue to single-click until you have finished measuring your linear feature. Double-click to end. Results will appear in the Measurement window.

Bookmarks

- The **Bookmark** widget enables users to navigate to predefined map locations.
- To **Create** a bookmark, navigate to the desired map extent and click on the Bookmark widget ▣ in the widget controller.
- Click on ＋ icon in the window.
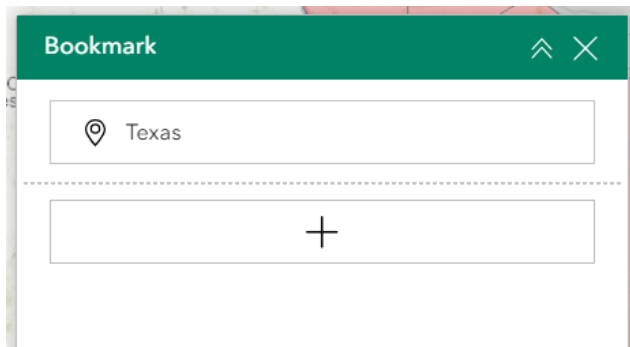
- Click on the name of the bookmark to rename it. Click on the 🗑 icon on the right to remove the bookmark.

- To close the window, click the ✕ in the upper right-hand corner.
- To collapse the window, click the ≫ just to the left of the close button.

Layers

- The **Layers** widget can be used to turn on and off data layers such as the Surface Water Intake and the current query results.
- To **view** the layers, simply click the **Layers** button ⬚ in the widget controller.
- Then browse through the available layers.
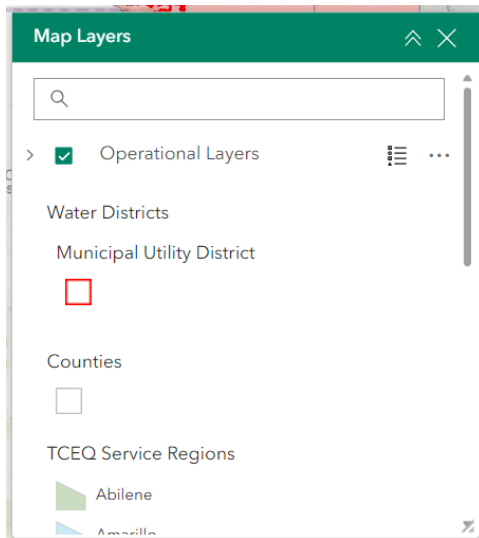
- To **Toggle the layer visibility**, locate the layer in the list and click on the checkbox next to the layer name. This toggles the visibility on and off the map.
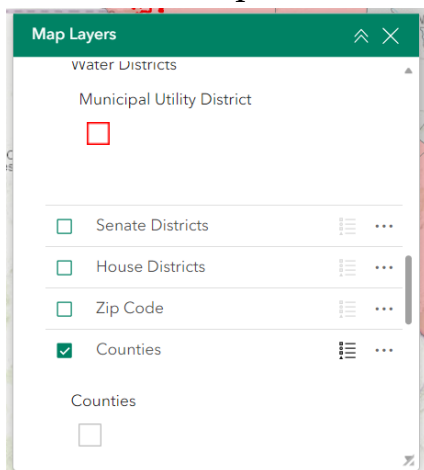
- **Expand** the layer by clicking the small arrow to the left of the check box. Here you can see the layer symbology.

- To **Zoom, order, get details and statistics** of the layers, click on the **options** button ⋯ and select the desired option.
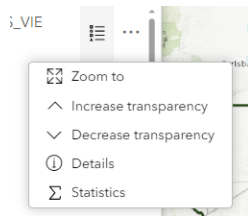
- To close the window, click the ☒ in the upper right-hand corner.
- To collapse the window, click the ⌃ just to the left of the close button.

Basemap Gallery

- The **Basemap Gallery** widget can be used to change the background in the map viewer. The topographic basemap is the default basemap.
- To change the basemap, click on the Basemap Gallery widget ⊞ on the widget controller, then select the basemap you wish to use.
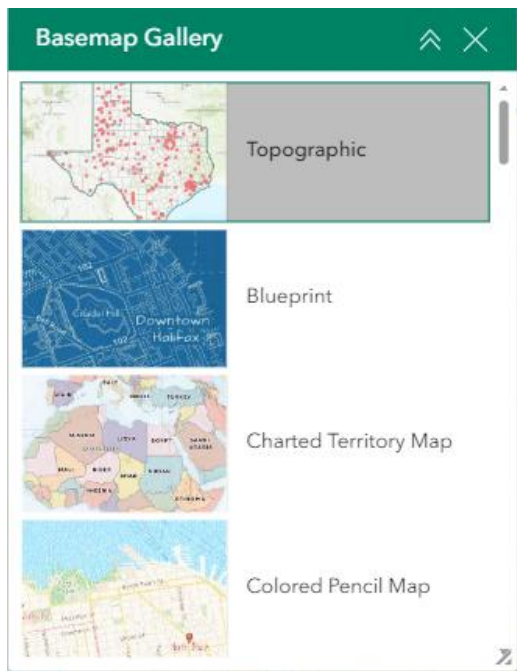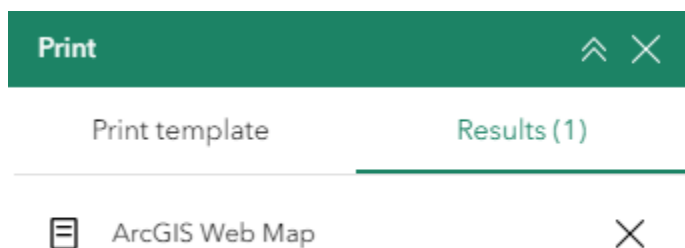

- You may choose from thirty-four different basemaps.

- To close the window, click the ☒ in the upper right-hand corner.

- To collapse the window, click the ⌃ just to the left of the close button.

Print

- Use the **Print** widget to save the current map as a pdf file. You may give it a customized title and select a layout and size. Advanced features include ability to add map scale, author, copyright, north arrow, and legend. You may also set the map extent and printing quality.
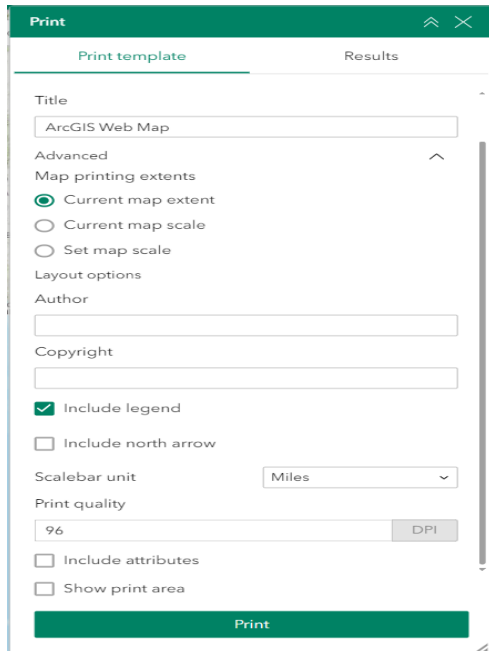

- After clicking print, the results will show in the results panel of the Print window.

- To close the window, click the in the upper right-hand corner.

- To collapse the window, click the just to the left of the close button.

🔍 **Search Bar** – Type in an address or place into the bar to search for a location. As you type, you will be presented with similar matches. If you see your desired location appear, simply click on it and the map will zoom to that location. Or you can complete typing in the location and then press Enter on the keyboard or click the magnifying glass. You can click the X on the bar to clear out the search bar.
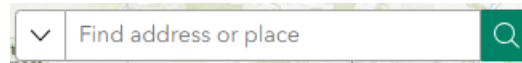

The following are examples of the types of searches you can perform.

- Addresses: 100 Congress Ave, Austin, TX, 78701
- Names: Zilker Park
- Counties: Travis County

Search Bar Filter Options

Click the **dropdown arrow** in the search bar to refine your search by selecting specific categories. You can:

- **Check or uncheck categories** to limit results to certain district types or services.
- **Select "All"** to include all available search options.
- **Use the ArcGIS World Geocoding Service** for broader searches, such as addresses or places.
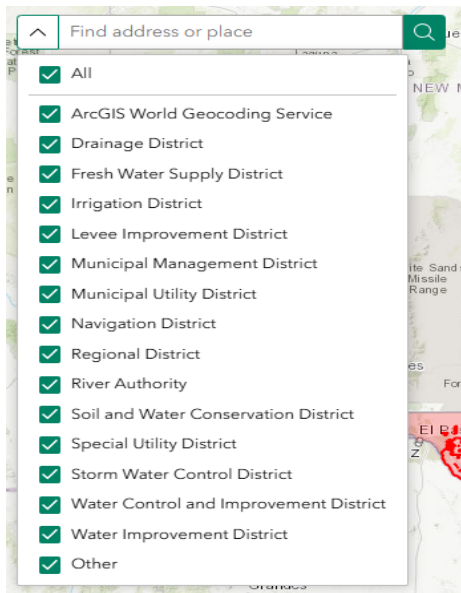
Attribute Table:

To view the attribute table, click on ⌃ icon at the bottom of the viewer. The attribute table will expand. To collapse the attribute table, click on the ⌄ icon at the top of the table.

NAME	DISTRICT_ID	TYPE	COUNTY	COGO_ACRES	PLAT_ACRES	STATUS	TX_CNTY
Las Lomas MUD 3	5363501	MUD	Kaufman	289.25018625	288.239	I	129
West Cedar Creek MUD	8469000	MUD	Henderson	15,284.65986661	15,252	A	107
Fort Bend County MUD 238	3079875	MUD	Fort Bend	705.62176534	705	I	079
Fort Bend County MUD 231	3079825	MUD	Fort Bend	309.29775385	309.21	A	079
Harris County MUD 571	9000008	MUD	Harris	155.46689233	155.4	I	101

Total: 1,757 | Selection: 0

To **refresh** the attribute table, click on .

To **show or hide columns** in attribute table, click on .

To **filter by connected map extent**, click on . This will show only the records within the current map extent.

Click on to perform **actions** such as set filtering, zooming, panning, viewing statistics, and exporting of data.

Map Tools:

The zoom tools are located on the bottom right-hand side of the map application.

+ Zoom In – Click this button once or multiple times to *zoom in* at fixed increments

− Zoom Out – Click this button once or multiple times to *zoom out* at fixed increments

⌂ Home – Click once to return to the default extent

◇ My Location – Clicking this button will take you to your current location.

`100 mi` **Scale Bar** – shows the scale of the map at your current extent, located in the bottom left corner of the viewer window.

Coordinates

- The **Coordinates** widget is found on the bottom left corner of the viewer window, above the scale bar. The coordinates automatically update to the location of the cursor in the viewer window.

  `-96.404 28.658 Degrees`

- To get the coordinates of a particular location on the map, click on the ⊹ icon.

- Click on the map to create a marker. The coordinates widget will update with the coordinates of the marker.

  `-96.154 28.918 Degrees`

- You can copy the coordinates of the marker by clicking the ▢ icon.

Overview Map

- The **Overview Map** tool provides users with a smaller navigational map that offers an overview of the entire map or application. It helps users quickly locate their position within the larger map and navigate more efficiently.

- To use the **Overview Map** tool, click on the icon located in the upper-right corner of the map, directly below the **header bar**.

- A small map will appear, displaying your current view within a larger extent.

- To pan, click and drag the dark grey rectangle within the overview map to adjust your location.

- To collapse the small map, click on the **Overview Map** Icon again.

Contact Us

Contact information for staff in the Water Supply Division of the Texas Commission on Environmental Quality.

Email: PLANDIST@tceq.texas.gov
Telephone: (512) 239-4691