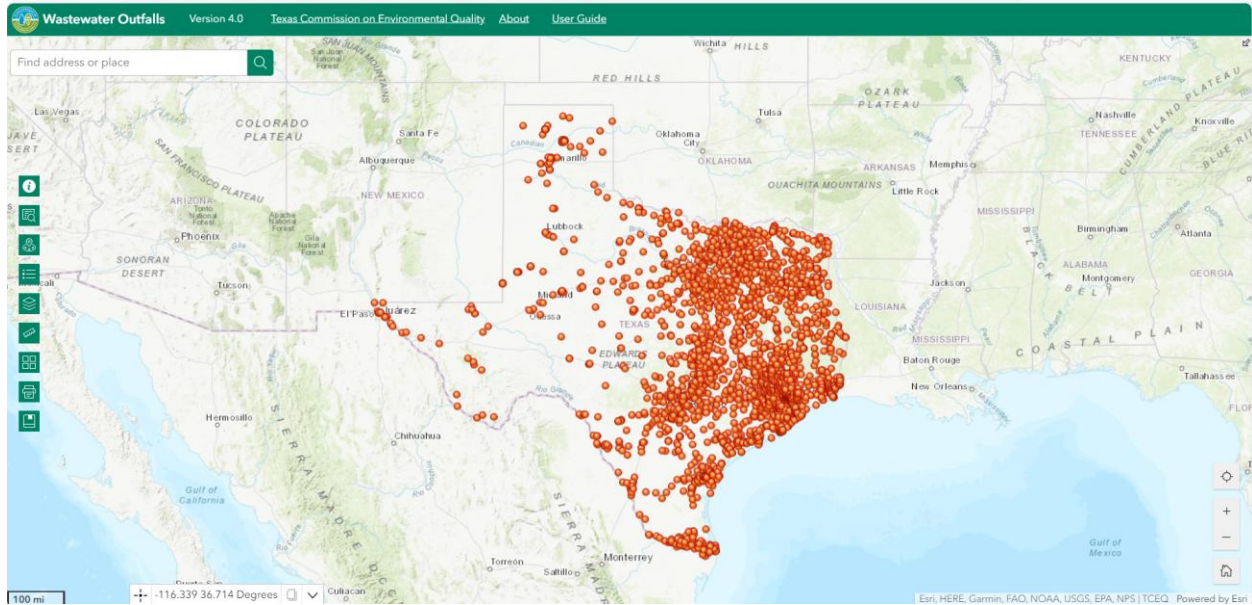


Wastewater Outfalls Viewer

User Guide



Texas Commission on Environmental Quality



Water Quality Division

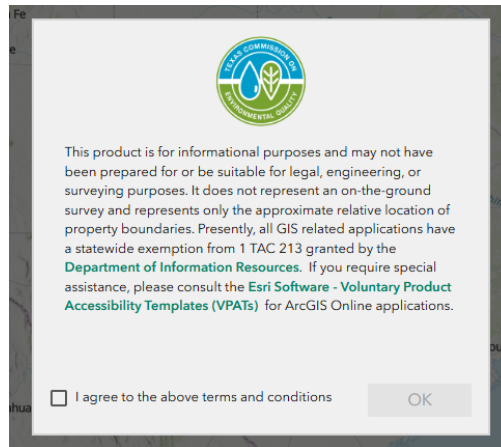
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Navigating Around the Map

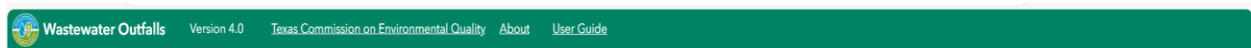
Splash Screen Pop Up:

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.



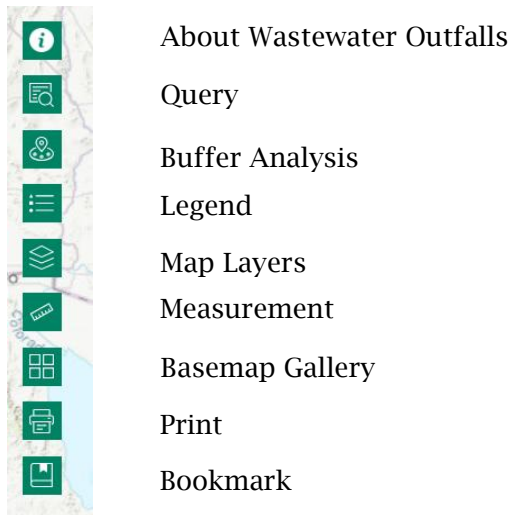
Viewer Header:

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.




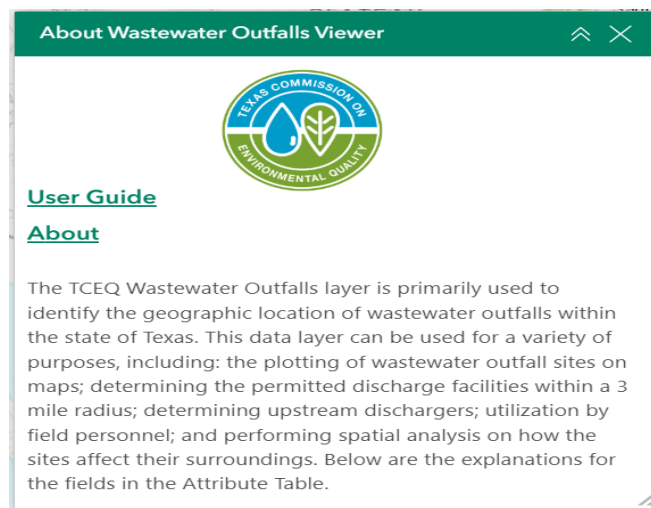
Widget Controller:



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

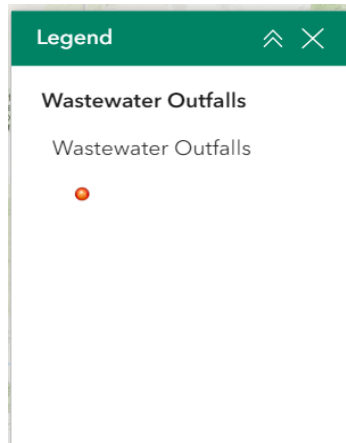
- The **About** widget provides users with essential information regarding the application, including its, purpose, user guide, data sources, and any credits or acknowledgements related to the content.
- To use the **About** widget, click on the  icon in the widget controller
- This opens a brief description 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.

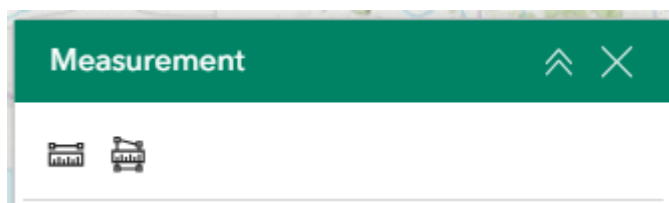
Legend



- 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.





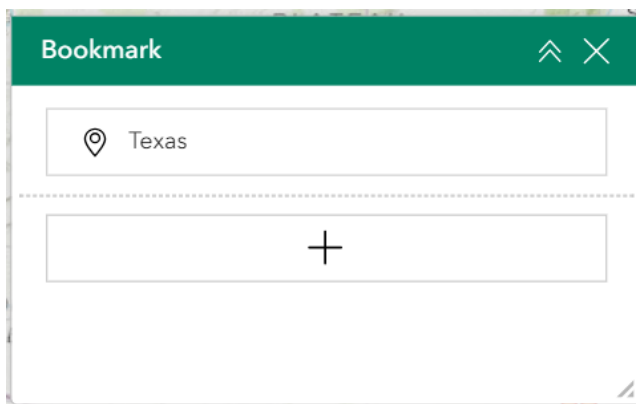
- To close the window, click the  in the upper right-hand corner.
- To collapse the window, click the  just to the left of the close button.
- There are two different ways to measure features on the map:


 **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.




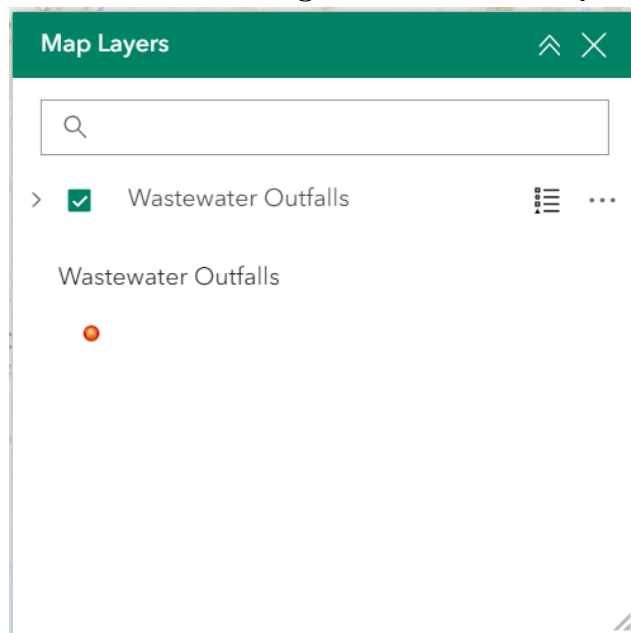
- Click on the name of the bookmark to rename it. Click on the  icon on the right to remove the bookmark.



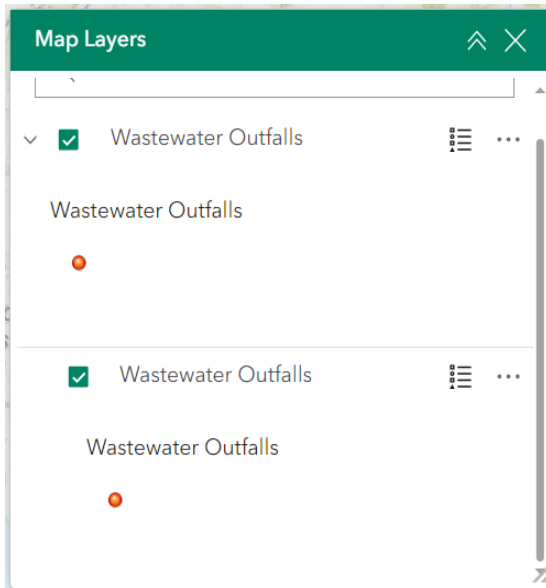
- To close the window, click the  in the upper right-hand corner.
- To collapse the window, click the  just to the left of the close button.

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.




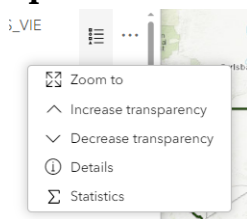
- To **Toggle the layer visibility**, locate the layer in the list and click on the checkbox next to the layer name. This toggles the visibility on and off the map.




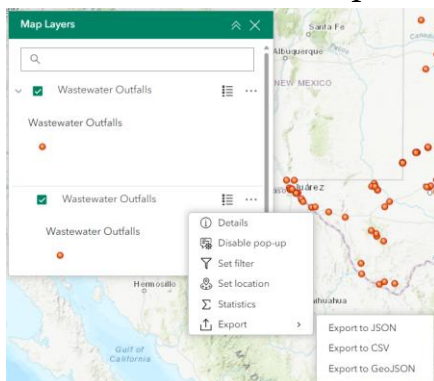
- **Expand** the layer by clicking the small arrow to the left of the check box. Here you can see the layer symbology.





- To **Zoom, order, get details and statistics** of the layers, click on the **options** button  and select the desired option.




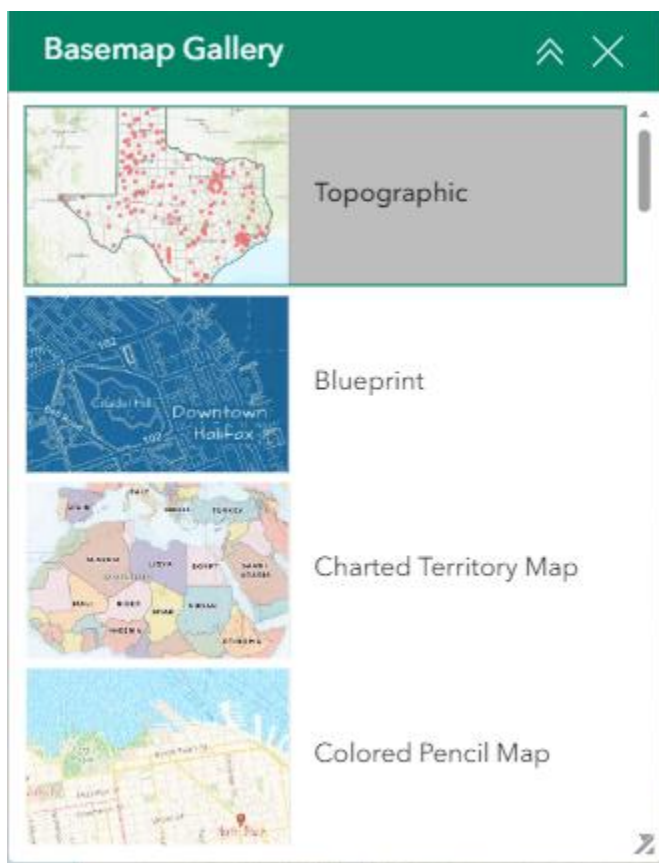
- To **export** layer data, click on the **options** button , select **Export** and choose desired export format(JSON, CSV, or GeoJSON).





- 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

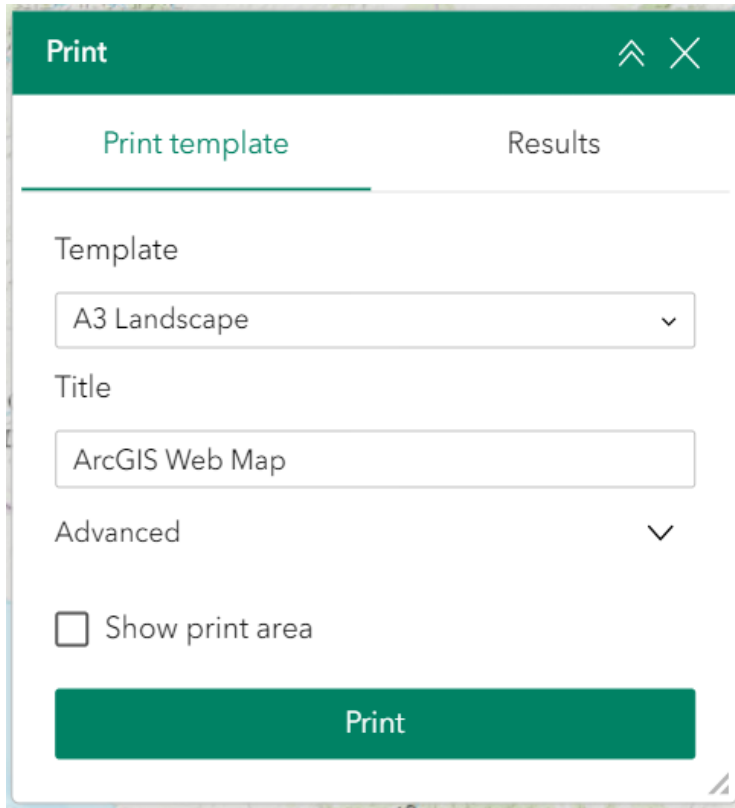
- The **Basemap Gallery** widget can be used to change the background in the map viewer. The topographic basemap is the default basemap.
- To change the basemap, click on the Basemap Gallery widget  on the widget controller, then select the basemap you wish to use.



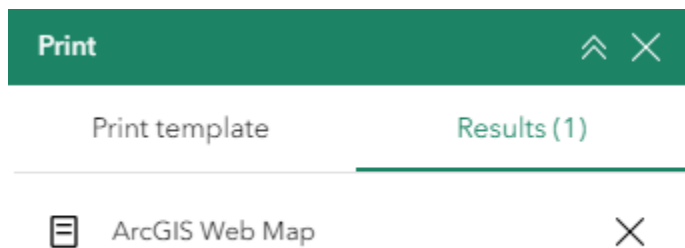
- You may choose from thirty-four different basemaps.
- To close the window, click the  in the upper right-hand corner.
- To collapse the window, click the  just to the left of the close button.



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.




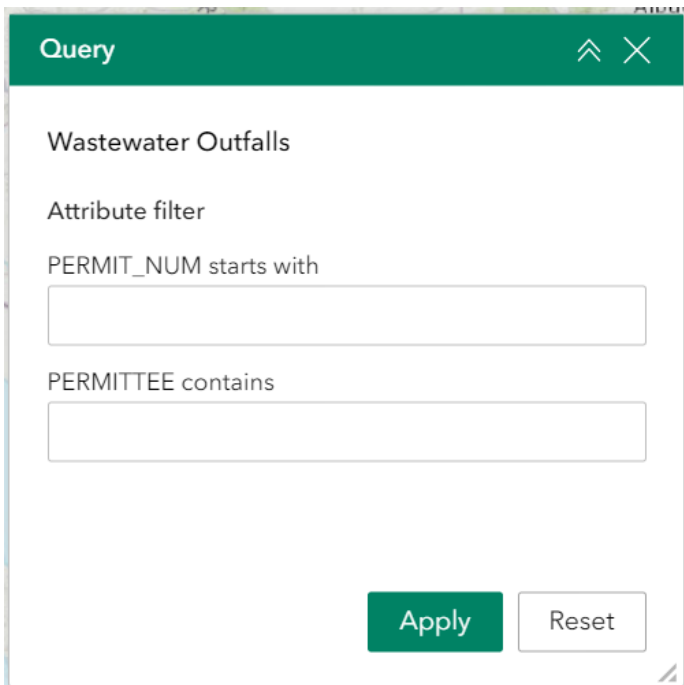
- After clicking print, the results will show in the results panel of the Print window.



- 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.

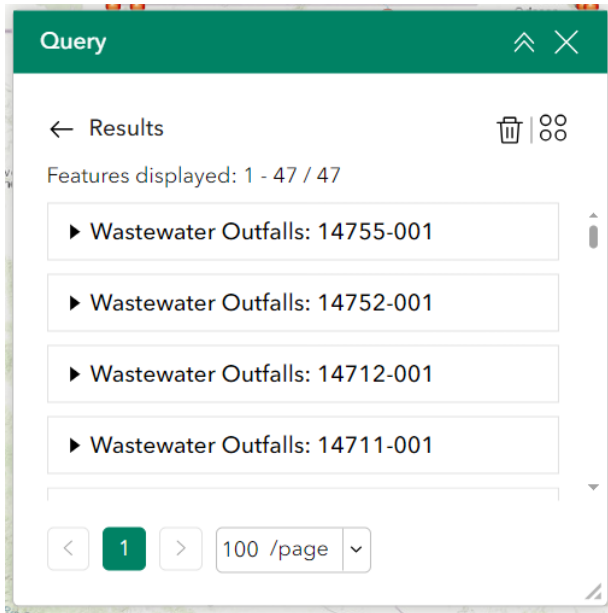
Query

- Use the **Query** widget  to search for specific data within the map using predefined queries.
- Two query options are available:
 - **PERMIT_NUM starts with:** Enter the beginning characters of the Permit Number.
 - **PERMITTEE contains:** Enter part of the name of the Permittee.

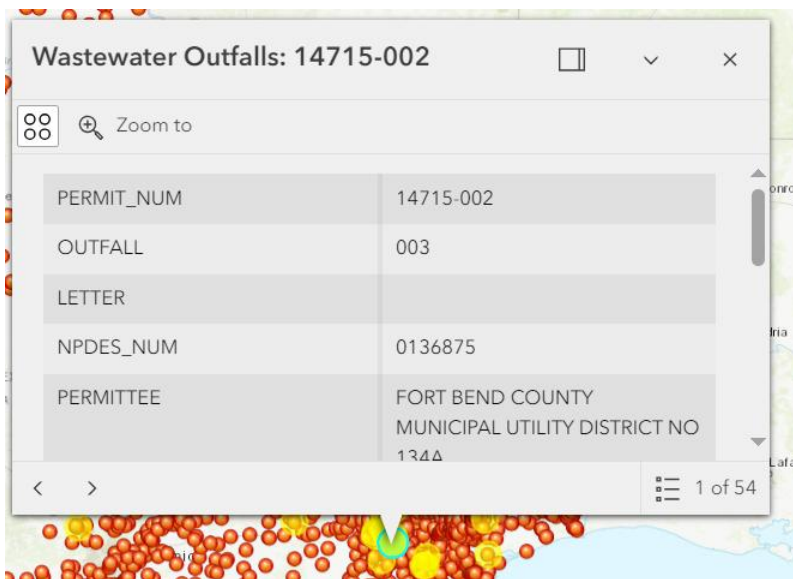


The screenshot shows a 'Query' dialog box with a green header. Below the header, the text 'Wastewater Outfalls' is displayed. Underneath, the label 'Attribute filter' is followed by two input fields. The first field is labeled 'PERMIT_NUM starts with' and the second is labeled 'PERMITTEE contains'. At the bottom of the dialog, there are two buttons: a green 'Apply' button and a white 'Reset' button with a grey border. The dialog also features a close button (X) and a maximize button (upward arrow) in the top right corner.

- Fill in one or both fields as needed.
- Click **Apply** to execute the query.




- Features that match the query criteria will display as highlighted points or areas on the map.
- Click on any highlighted feature to view additional details in the pop-up 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.

Buffer Analysis

- Use the **Buffer Analysis** widget  to locate features (points, polylines, or polygons) within a specified buffer distance of a chosen location on the map.



- **Integrated Search:** The main search bar of the map is linked to the **Buffer Analysis** widget. If the buffer analysis widget is opened, searching for an address via the search bar automatically zooms to the location and applies the buffer, displaying nearby features.
- **How to use:**
 - Click on either **point, polyline or polygon** and



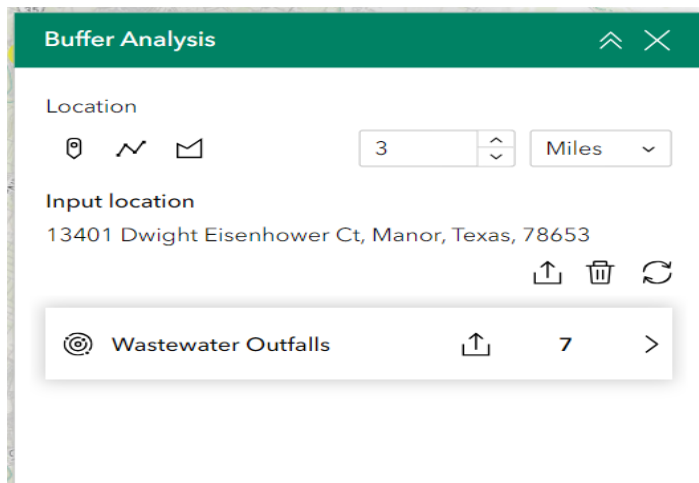
- Chose a location on the map.




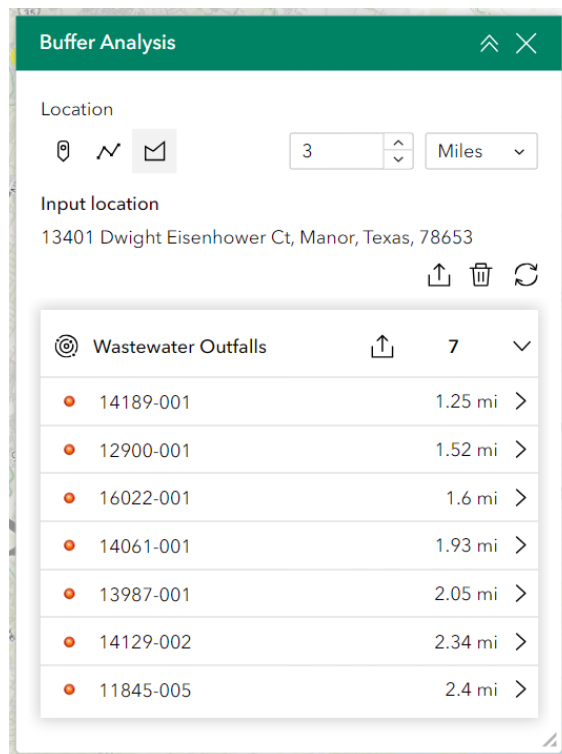
- Adjust the buffer radius to desired extent.

3 Miles

- Results:




- The results show the features within the buffer and the closest address.
- By clicking on the arrow  , the features are expanded to provide further details.



- 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

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.

 **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.




- 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.



- 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

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