

Barnett Shale Viewer

User Guide



Application Overview

The Barnett Shale Viewer is an interactive map viewer that allows users to view air quality monitors and detailed reports based on collected air samples. This user Guide includes a range of helpful widgets designed to enhance your experience.

The Widget Controller on the left-hand side of the map provides easy access to most of the widgets within this viewer. Users can find tools such as the About widget, which details information about the viewer as well as links to the User Guide and the additional information in ArcGIS Online. The Map Layers widget opens to a list of map layers within the viewer and the Legend widget shows the labels and symbols for those layers. The Basemap Gallery allows users to change the map's basemap. The Bookmark widget is useful as users can create their own bookmark if they want to save a map extent. The Print widget has also been configured to include different options for previewing extents and layouts.

Additionally, there are a couple of map tools available, such as a Measurement widget where a user can calculate distances, perimeters and areas. The Coordinates Indicator widget is helpful for displaying coordinates for any location within the map. The Select widget allows you to select features using an interactive map selection. The Query widget contains three individual queries, each configured to retrieve information and display it on the map. Lastly, with the Filter widget, you can limit the visibility of features to those that meet the expression criteria.

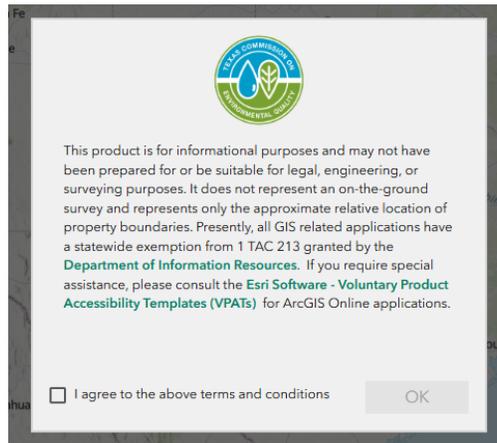
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Navigating Around the Map

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.



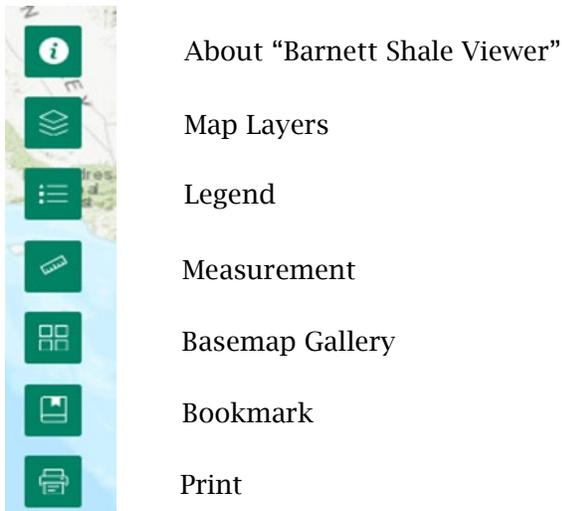
Viewer Header:

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.



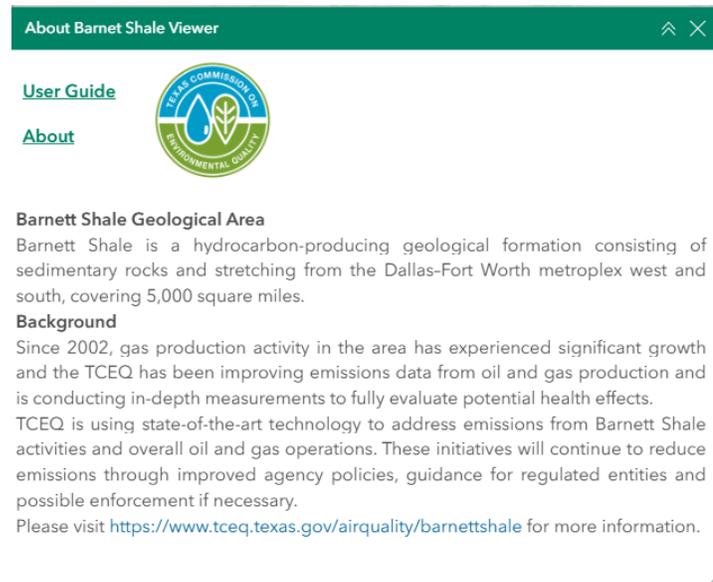
Widget Controller:

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 "Barnett Shale Viewer"

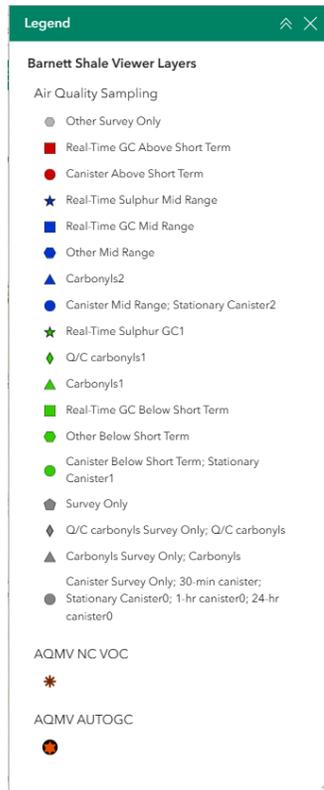
- The **About** widget provides users with essential information regarding the application, including its purpose, user guide, data sources, and any credits or acknowledgements related to the content.
- To use the **About** widget, click on the **About "Barnett Shale Viewer"**  icon in the widget controller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



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

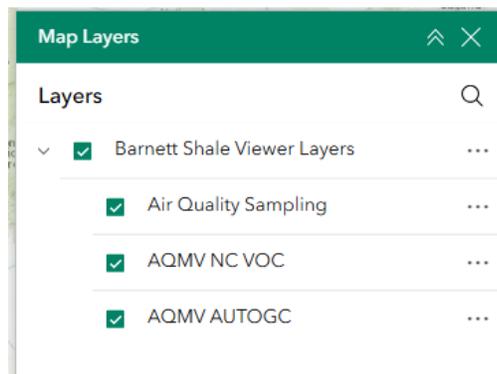
Legend

- The **Legend** widget shows the symbols for the various layers on the map.
- Simply click the **Legend** button  in the widget controller

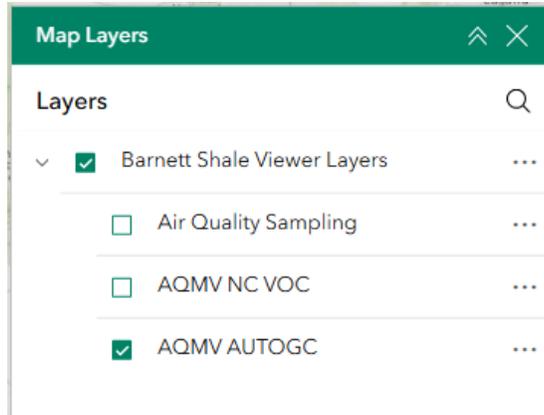


Layers

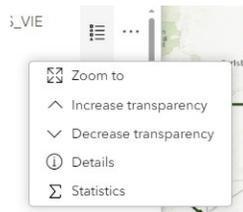
- The **Layers** widget can be used to turn on and off data layers such as the Air Quality Sampling and the current query results.
- To **view** the layers, simply click the **Layers** button  in the widget controller.
- Then browse through the available layers.



- 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.

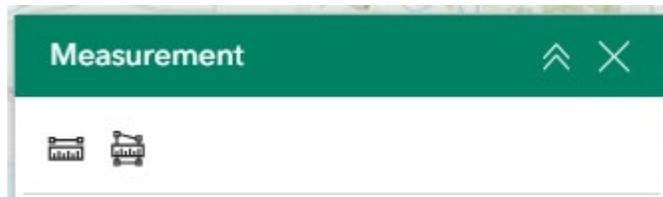


- To **Zoom, order, get details and statistics** of the layers, click on the **options button**  and select the desired option.



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.



- There are two different ways to measure features on the map:

Distance  - Click the button with a line (first from the left), choose a unit of measurement from the drop- down list, then single-click the first point of your line on the map. Continue to

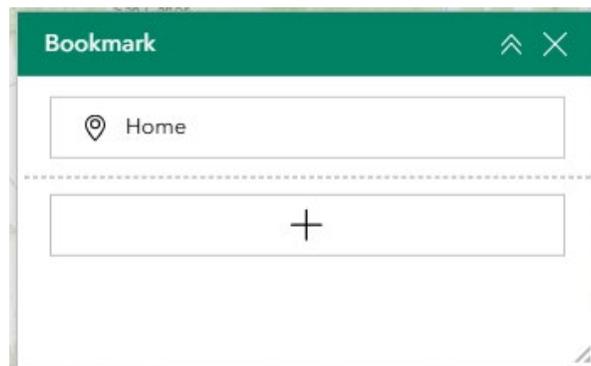
single-click until you have finished measuring your linear feature. Double-click to end. Results will appear in the Measurement window.

Area  - Click the button with a polygon (second from the left), 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.

- To clear the measurement, click the **Trash** icon  or **New Measurement** .

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 the **Add Bookmark**  icon in the window.

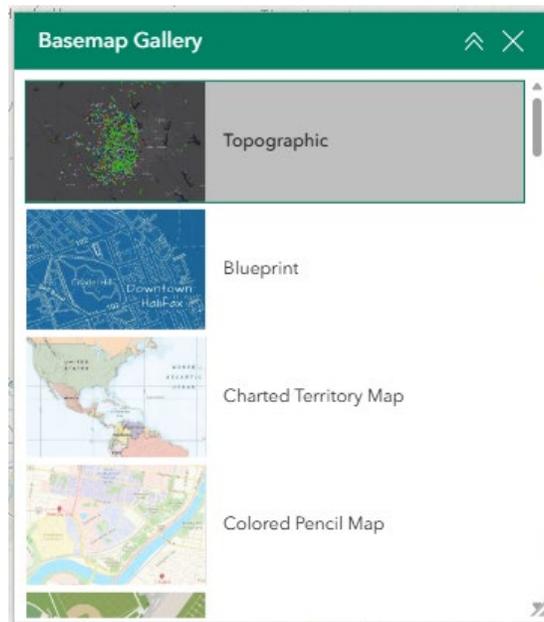


- Click on the name of the bookmark to rename it. Click on the **Delete**  icon on the right to remove the bookmark.



Basemap Gallery

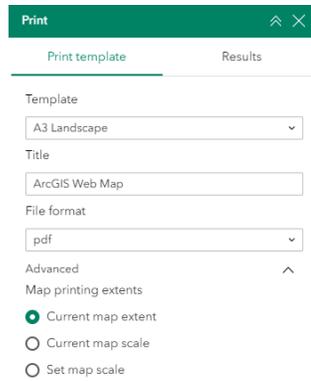
- The **Basemap Gallery** widget can be used to change the background in the map viewer. The topographic basemap is the default basemap.
- To change the basemap, click on the **Basemap Gallery** widget  on the widget controller, then select the basemap you wish to use.



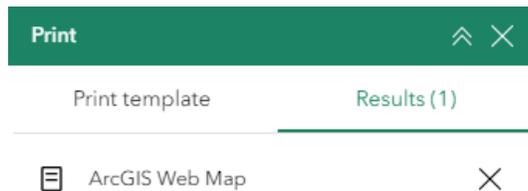
- You may choose from thirty-four different basemaps.

Print

- Use the **Print** widget  to save the current map as a pdf file. You may give it a customized title, choose the format, 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.

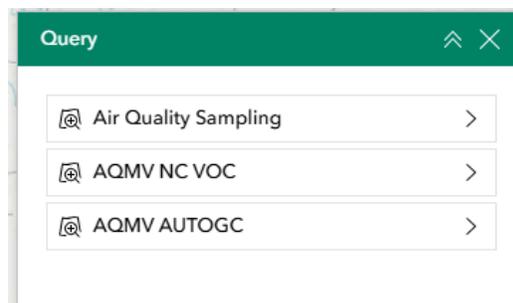


Analysis Widgets:



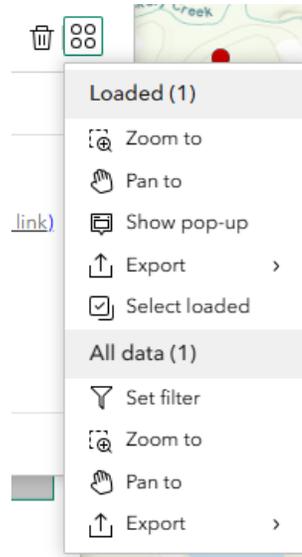
Query – Click this widget to enter and execute predefined queries.

- There are 3 queries to select from.

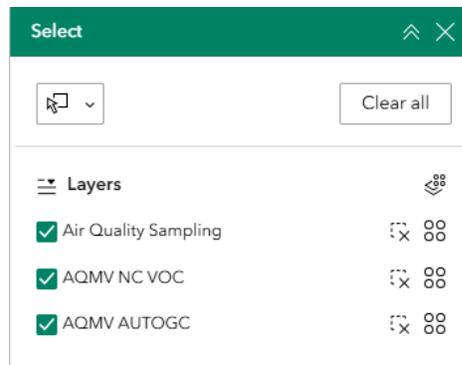


- Each query requires a Query Criteria to be met. Select the 'Apply' button to run the query.

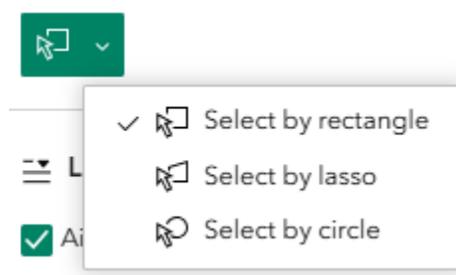
- Once the query has run, click on the Actions button on the top right to open the actions menu for that query. To discard, click on the trash can icon.



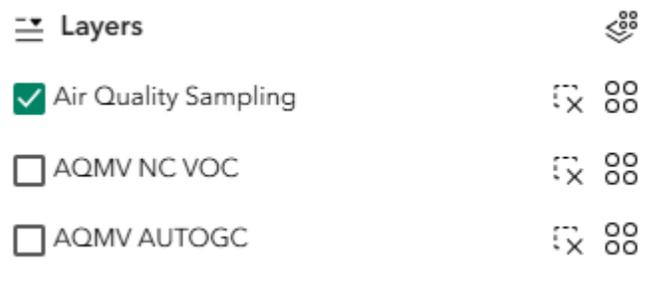
Select – This widget allows you to select features from the map by drawing a shape around your intended area.



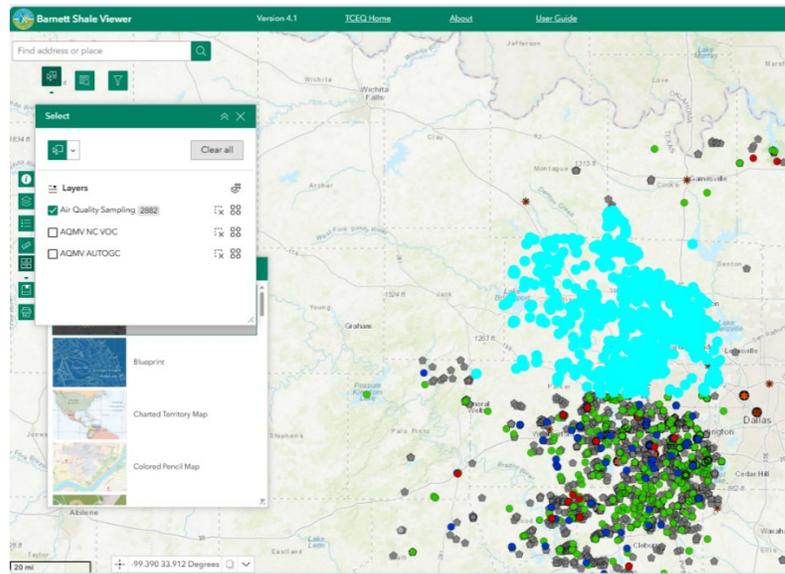
- You can select features from the layers on the map by clicking on the 'Select by' button. Use the drop down to indicate if you want to 'Select by' rectangle, lasso, or circle.



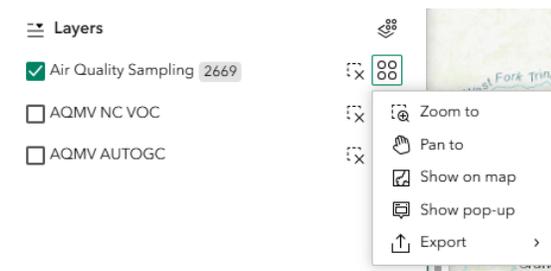
- All layers within the Select widget are turned on by default. To select features from a specific layer, toggle the layers on/off by checking the box next to the layer.



- Once the shape is drawn on the map, the selected features will highlight blue and a count will display within the widget.



- By clicking the 'Actions' button, a number of options are available for those selected features, including the ability to export the selected data.

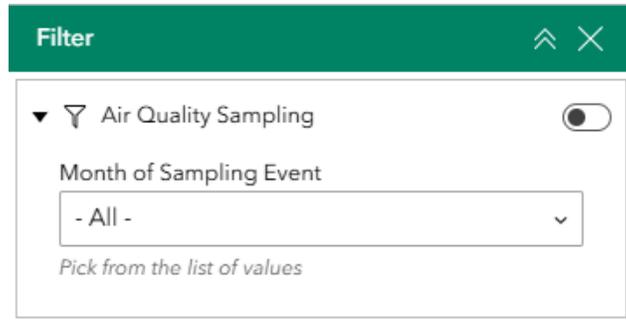


- To clear the selection, click on the 'Clear all' button on the top right of the widget.

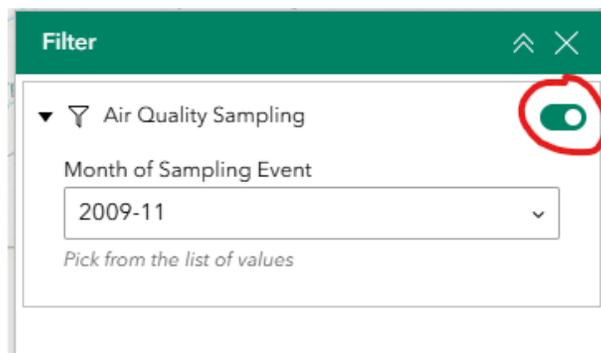


Filter – use this widget in order to limit the visibility of features to those that meet the expression criteria

- Open the drop down menu to select from the list of values.



- Toggle the widget on and off by clicking on the button on the right-hand side of the Filter window.



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 **Clear** icon  on the bar to clear out the search bar.

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

- Addresses: 17041 El Camino Real, Houston, TX, 77058
- Names of places or projects: Houston Zoo, Cedar Bayou, Trash Bash

Map Tools:

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

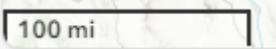


Zoom In  - Click the **zoom in** button once or multiple times to **zoom in** at fixed increments

Zoom Out  - Click the **zoom out** button once or multiple times to **zoom out** at fixed increments

Default Map View  - Click the **default map view** button once to return to the default extent

Find My Location  - Click the **find my location** button to 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 **Enable clicking the map to get the coordinates**  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 **Copy** 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 **Overview** arrow  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** arrow  again.

Contact Us

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