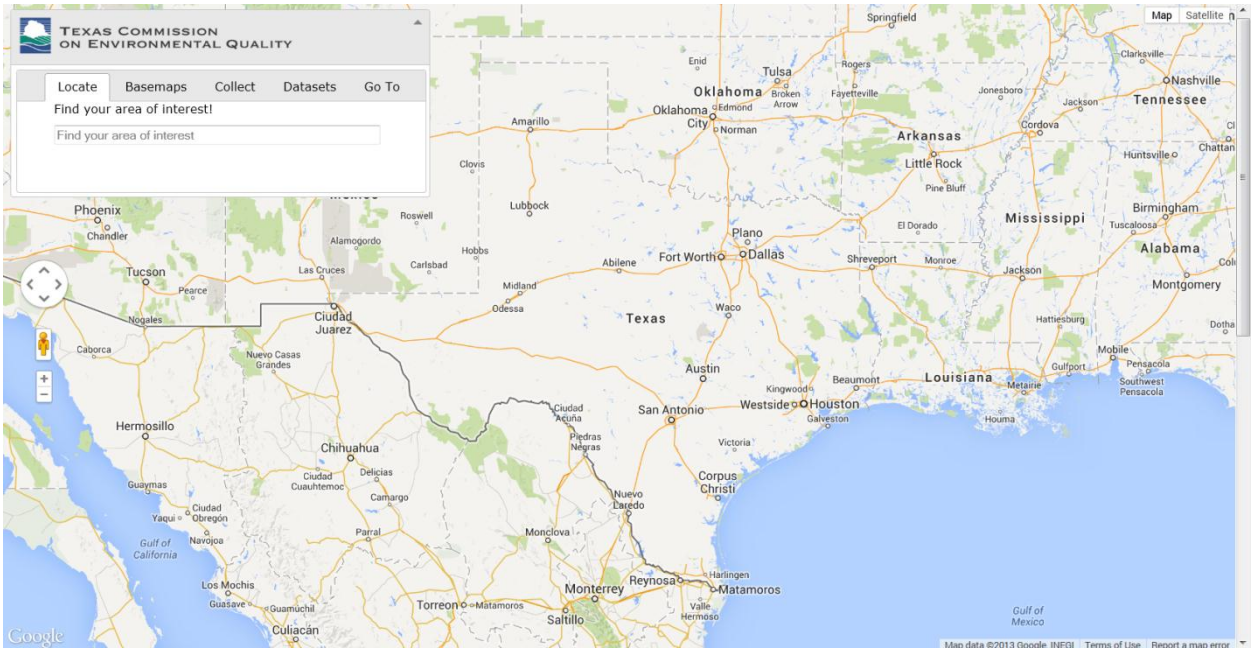
TCEQ Spatial Queries and Mapping Application Viewer – User Guide



The **Spatial Queries and Mapping Application Viewer** allows users to:

- View aerial imagery for any area in Texas.
- Obtain latitude-longitude coordinates for point locations or polygons
- Locate points in Texas that correspond to known street addresses.

The OAS/Information Resources Division (IRD)/Enterprise Support Section (ESS)/GIS Team created and maintains this application.

Date Updated: December 16, 2013

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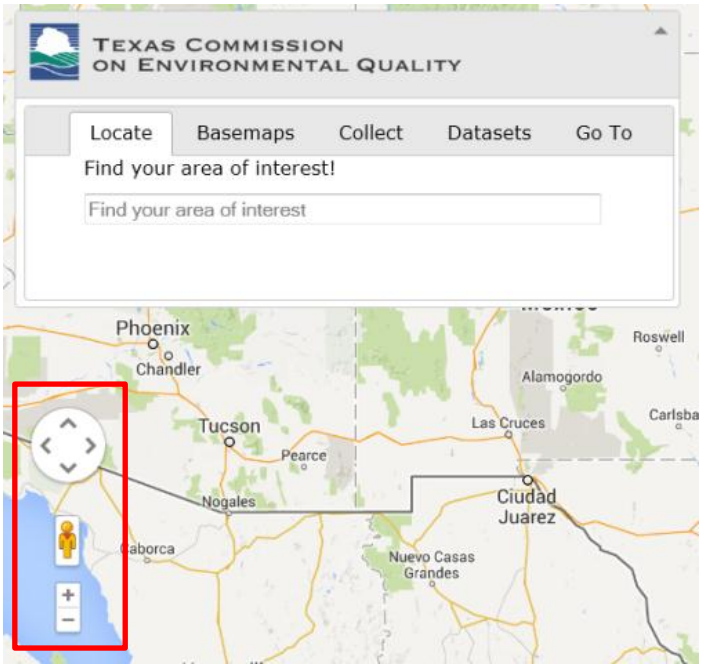
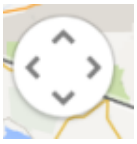
Navigation Tools

The viewer will open to display the state of Texas.

Basic navigation tools are provided on the left side of the screen.





Pan Tool: Click on the arrows to move the map display in the desired direction.

You can also use the hand cursor to click and drag the map view.

Because this viewer incorporates the Google Maps Viewer, you can use the **Street View** feature to display street views of selected locations.

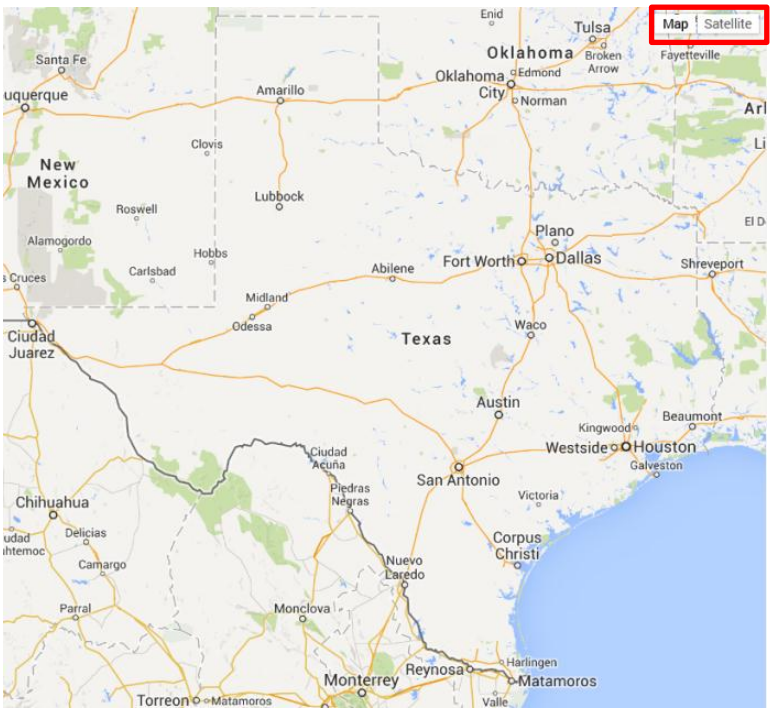
The **Zoom In** and **Zoom Out** tools allow you to zoom in on the map to view more detail for a selected area, or zoom out to display a larger geographic area.

Base Map Selection

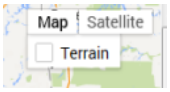
In the upper right-hand corner of the viewer, you can select the base map you wish to display.

Your basic choices: **Map** and **Satellite**.

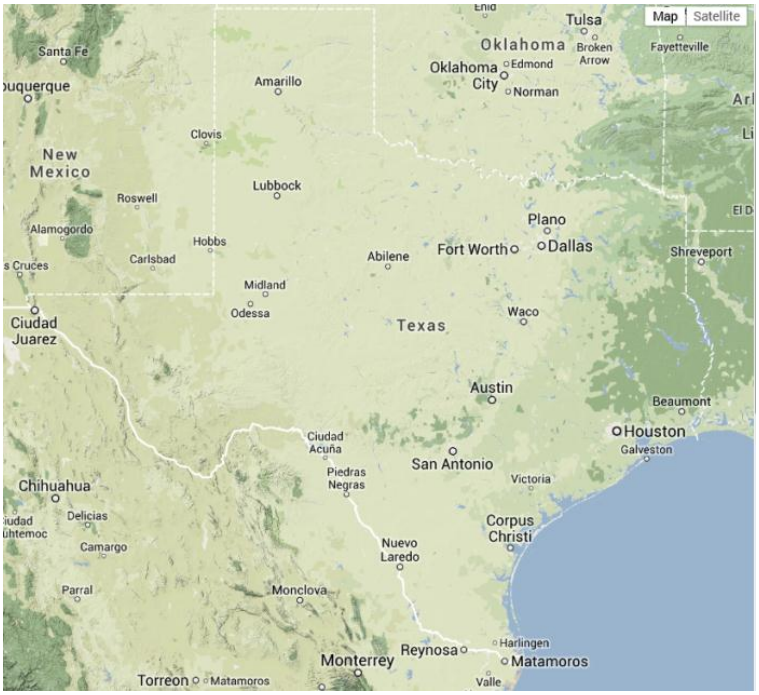
The viewer will open to the **Map** base map as shown in the image to the right.



If you mouse over the **Map** button, however, a **Terrain** box will appear, as shown below.



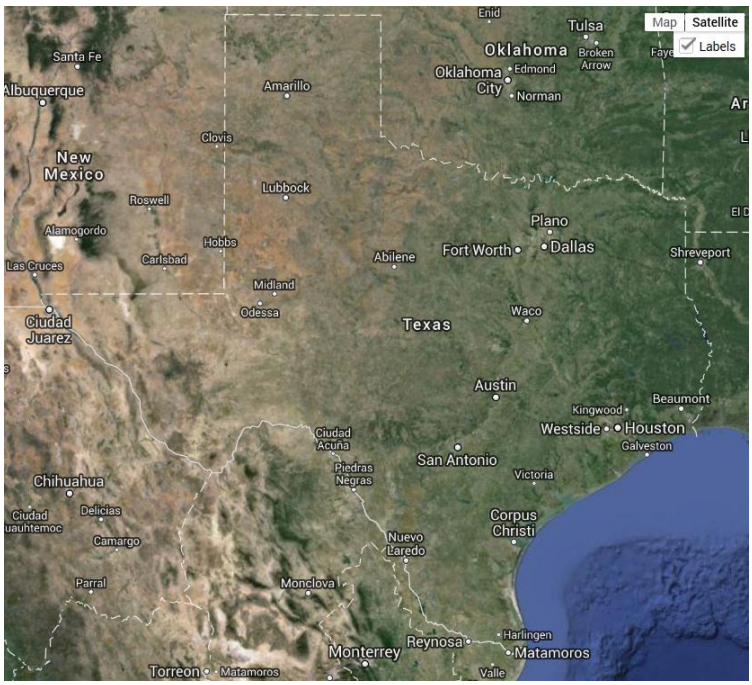
Clicking on the **Terrain** check box will display a base map with terrain elevations, as shown in the image to the right.



Clicking on the **Satellite** button will display an aerial imagery base map.

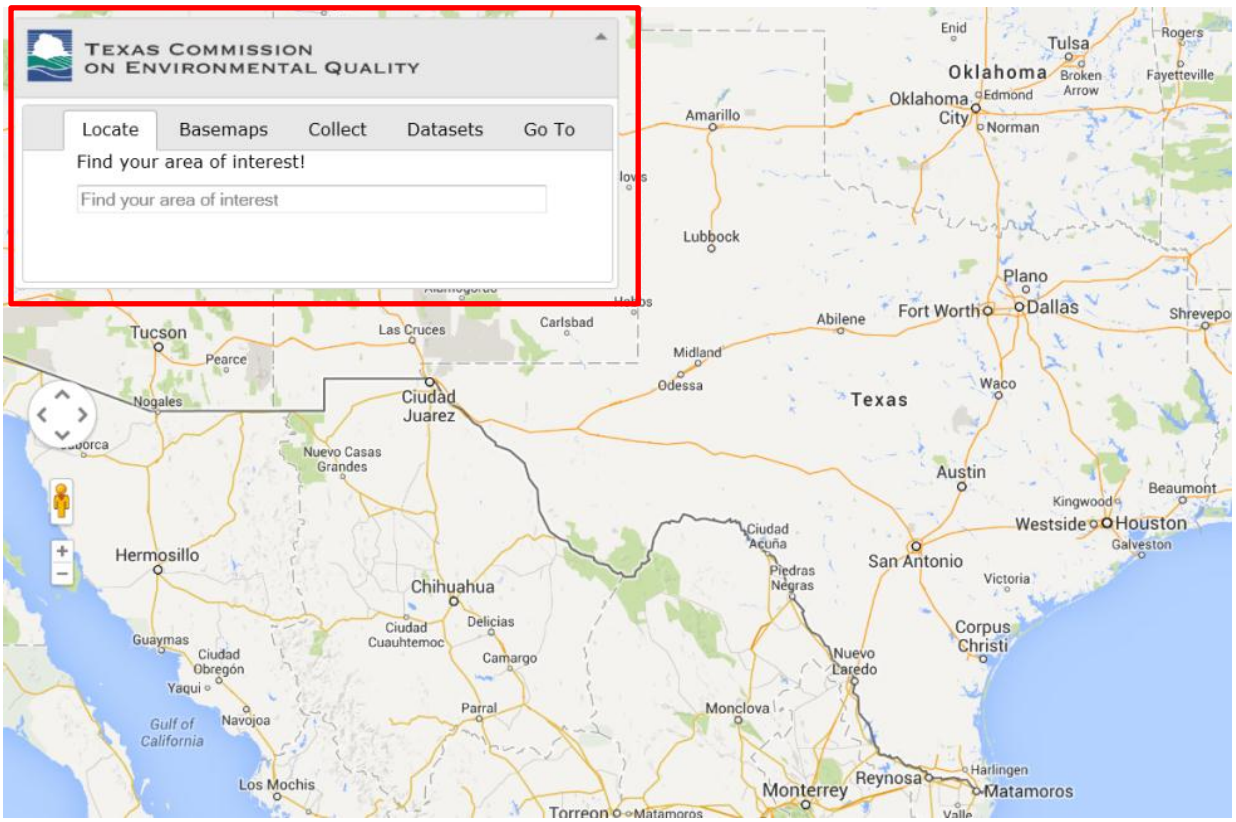
If you mouse over the **Satellite** button, a **Labels** box will appear.

Clicking on the **Labels** check box will display the aerial imagery base map with political boundaries and labels for cities and states, as shown in the image to the right



Functional Tools

The viewer's functional tools are displayed in the upper left hand corner of the viewer, above the navigation tools.



The functional tools window has five tabs:

- **Locate**
- **Basemaps**
- **Collect**
- **Datasets**
- **Go To**

Functional Tools – Locate

You may use this tool to locate physical locations in Texas using multiple criteria:

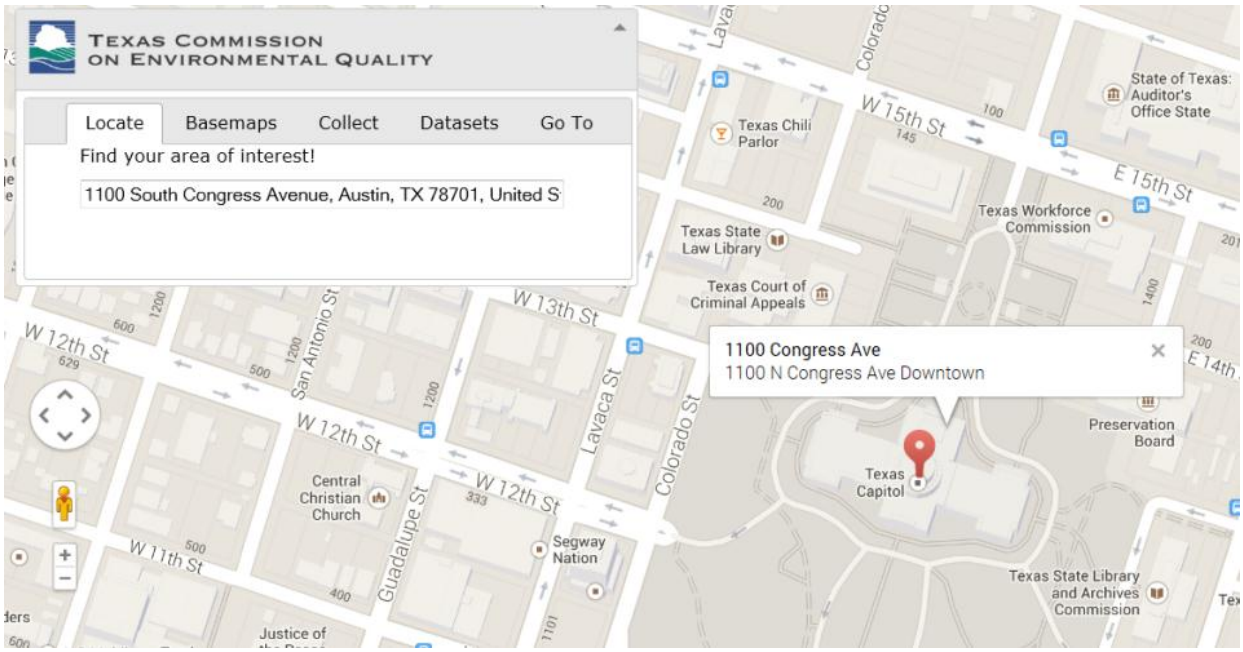
- **Street address**
- **City name**
- **County name**

To locate a point or geographical area by street address, enter the street address in the **Find your area of interest!** window.

For example, enter the street address for the Texas State Capitol: 1100 Congress Ave, Austin, TX 78701. (As you enter the address, the viewer will provide you with several possible locations in the United States with that address.)

Select the best option or complete entering the address, and hit Enter.

The viewer will display the Capitol as shown in the image below. It will also place a red pointer on the location with a banner displaying the address.

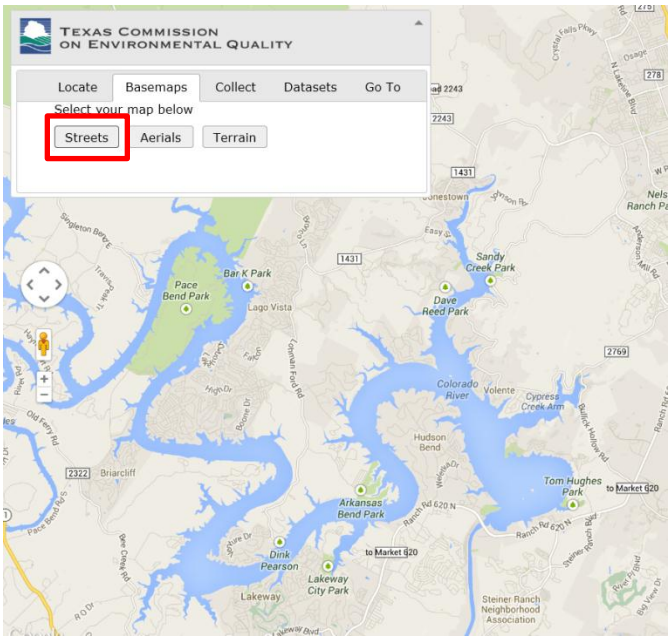


Functional Tools – Basemaps

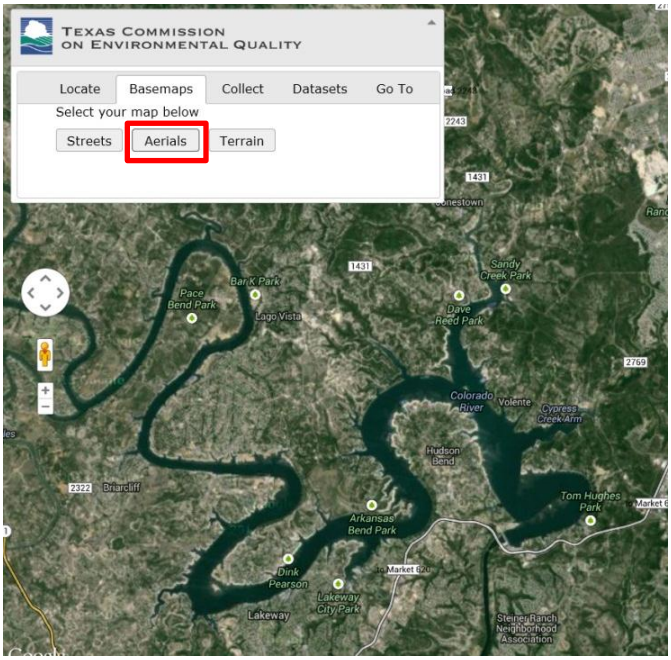
The Basemaps tab gives you the same functionality that the **Base Map Selection** tool (described above) provides.

It allows you to choose one of three base maps:

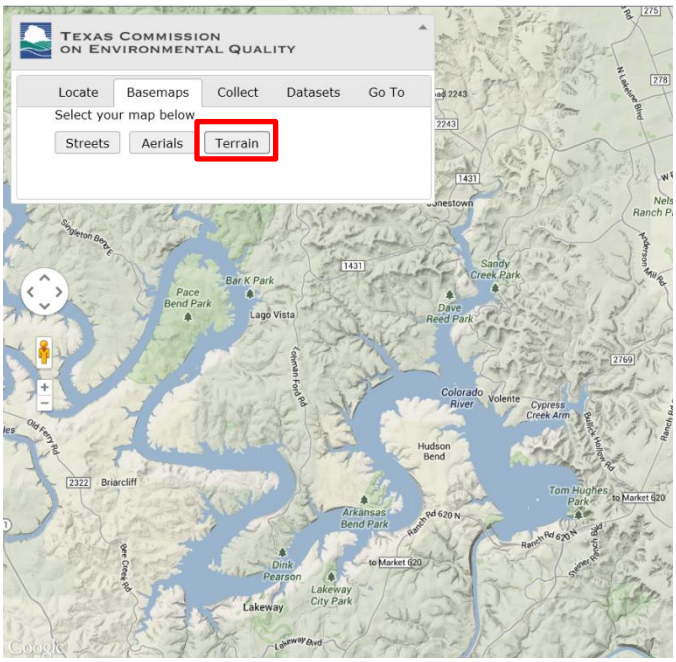
- Streets



- Aerials



- Terrain


Texas Commission on Environmental Quality
Locate
Basemaps
Collect
Datasets
Go To
Select your map below
Streets
Aerials
Terrain
Pace Bend Park
Bar K Park
Lago Vista
Sandy Creek Park
Dave Reed Park
Colorado River
Volente
Cypress Creek Arm
Hudson Bend
Briarcliff
Tom Hughes Park
Arkansas Bend Park
Dink Pearson
Lakeway City Park
Lakeway

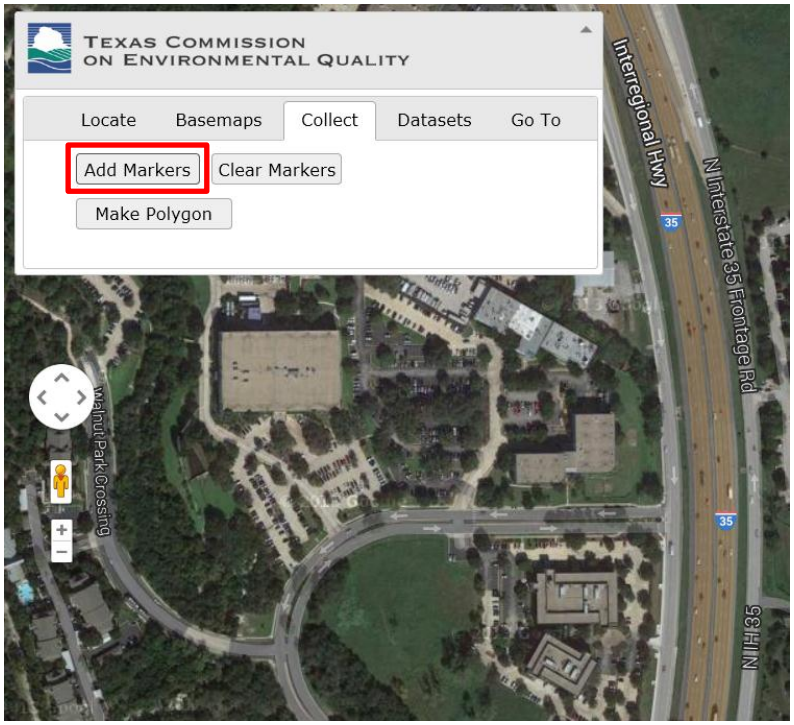
Functional Tools – Collect

The Collect tab allows you to collect latitude-longitude coordinates for point locations, and to join multiple point locations to form a single polygon.

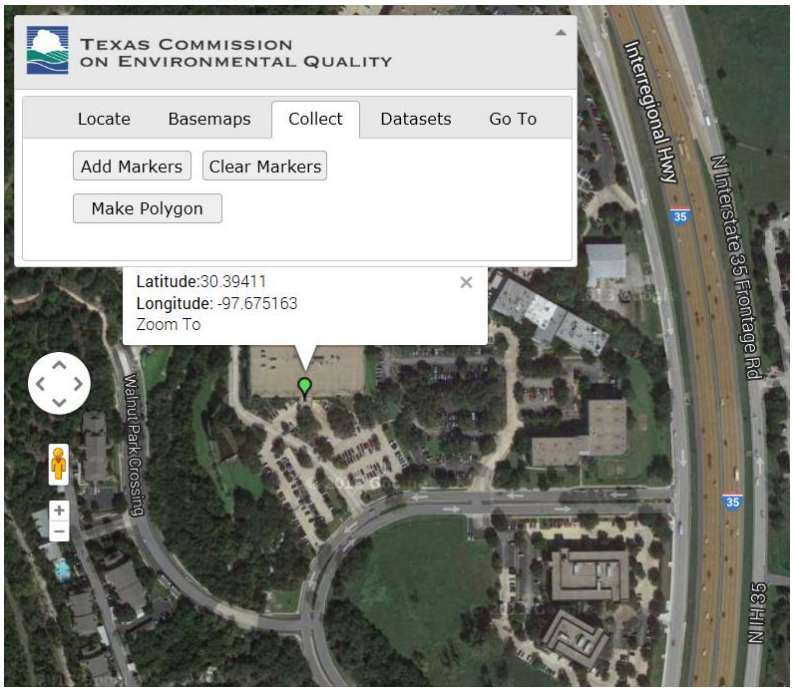
The examples below display the TCEQ Park 35 Campus in Austin with the Satellite base map selected.

To obtain a point location:

- Click on the **Add Markers** button.



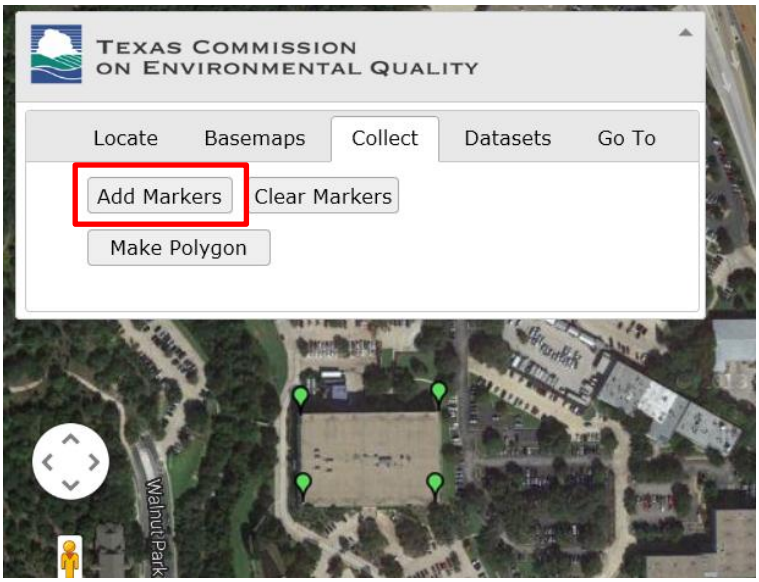
- To obtain the latitude-longitude coordinates for the south entrance to Building A, place the cursor over the entrance and do a left mouse click. The viewer will place a green pointer on the location.
- Click on the green pointer. A window displaying the location's latitude-longitude coordinates in decimal degree format will appear.



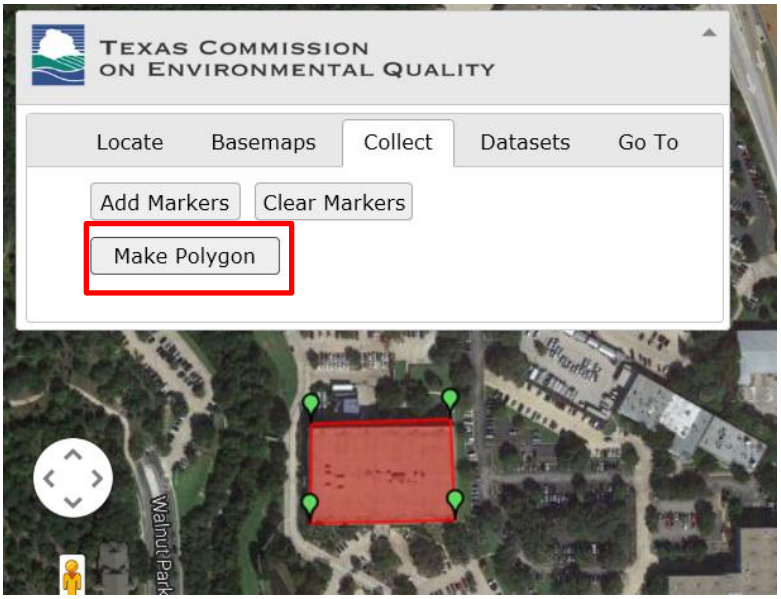
To clear the viewer of green pointers, click on the **Clear Markers** button.

To create a polygon:

- Click on the **Add Markers** button and place green points on the display to define the polygon. (In the example to the right, the points will define Building A on the TCEQ Park 35 campus.)



- To join the points in a polygon, click on the **Make Polygon** button.



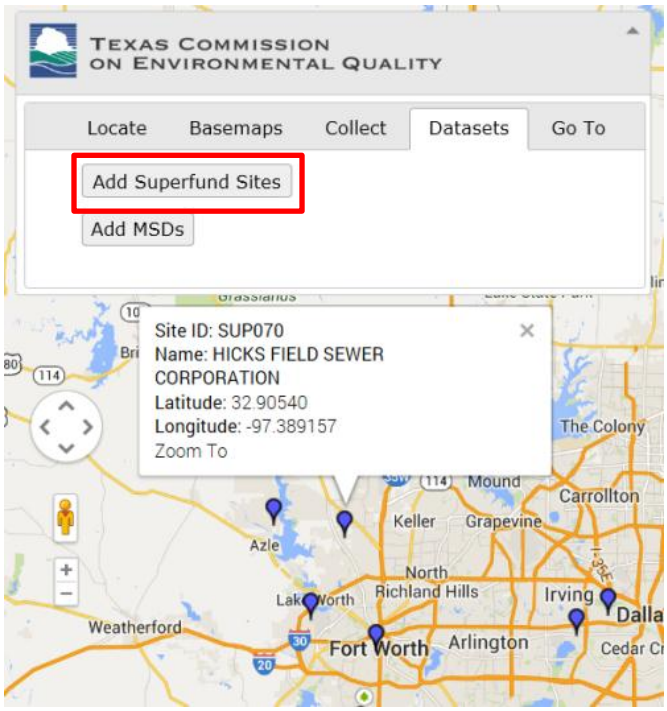
Functional Tools – Datasets

The viewer allows you to display point locations for **Superfund Sites** and **Municipal Setting Designations (MSDs)**.

The examples below display the Dallas – Fort Worth area.

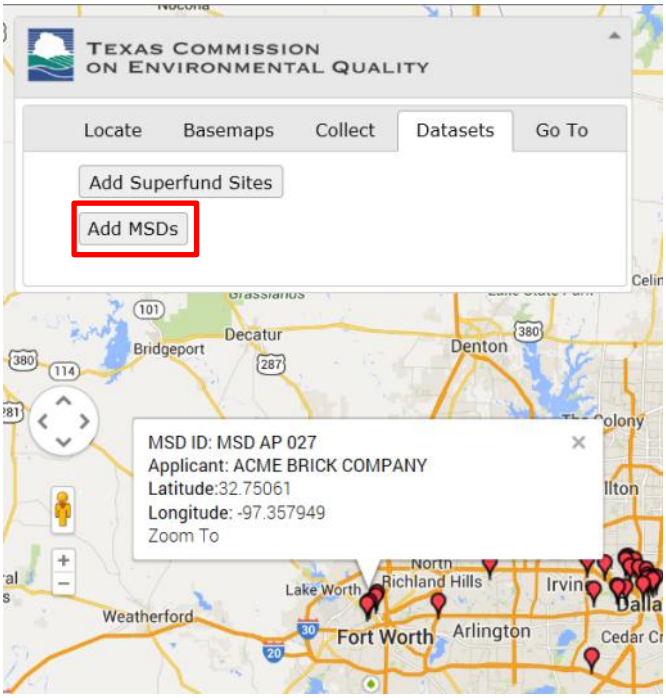
To display Superfund Sites:

- Click on the **Add Superfund Sites** button. Superfund sites will display with blue pointers.
- To display information about a particular site, do a left mouse click over the pointer of interest.



To display Municipal Setting Designations (MSDs):

- Click on the **Add MSDs** button. MSDs will display with red pointers.
- To display information about a particular MSD, do a left mouse click over the MSD of interest.



To clear the screen, go to the Collect tab and click on the **Clear Markers** button.

Functional Tools – Go To

The viewer allows you to display the point location for a particular set of latitude-longitude coordinates.

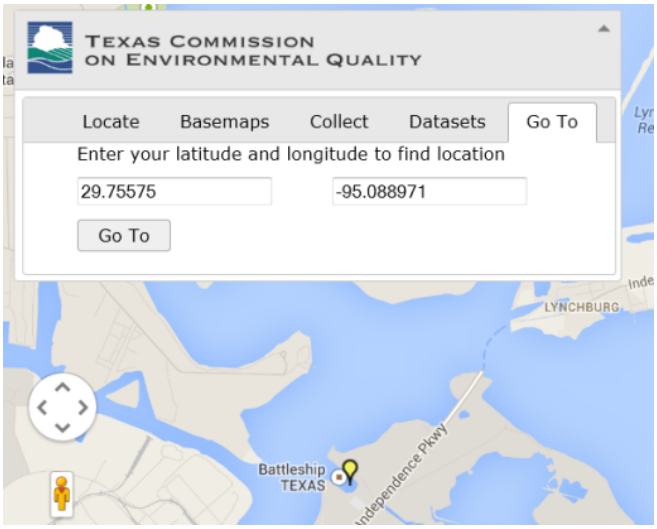
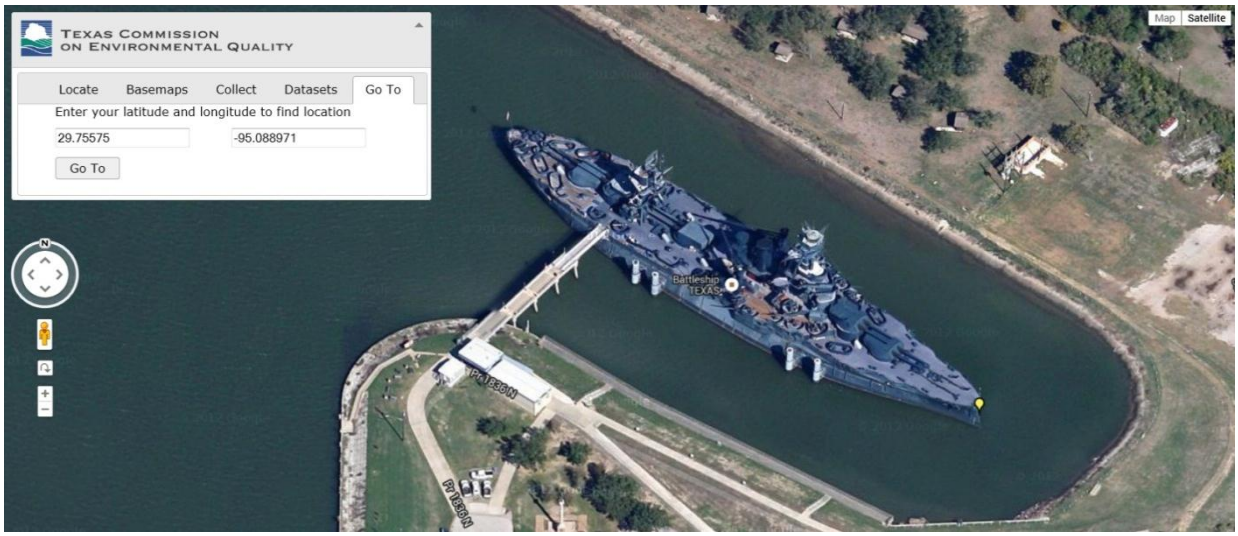
To display the location, enter the latitude-longitude coordinates (in decimal degree format) in the spaces under the caption **Enter your latitude and longitude to find location**. After entering the coordinates, click on the **Go To** button

For example, enter the following coordinates into the spaces provided. (Remember that longitudes in the Western Hemisphere are negative!)

Latitude: 29.75575

Longitude: -95.088971

The viewer will display the bow of the battleship *USS Texas*.



For a more detailed view, zoom in and change the base map to **Satellite**: