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About the Viewer

This Municipal Solid Waste Viewer (Viewer) displays facilities that have authorization from the Texas Commission on Environmental Quality (TCEQ) to manage municipal solid waste (MSW). As you use the Viewer, please note the following:

- The TCEQ does not recommend or refer customers to specific businesses.
- Addresses given may be mailing addresses, the physical location of the facility, or both.
- The telephone numbers in this list may be for the facility itself, a company office elsewhere, or a local government that manages the facility.

The MSW facilities that are displayed in the Viewer are active MSW landfills. These facilities are categorized into the following types:

- **Type 1**—The standard landfill for disposal of MSW. A Type 1 facility contains landfill units that can accept all types of municipal solid waste, including putrescible waste (waste that can cause foul odors when decomposing), household waste, construction and demolition waste, household hazardous waste, special waste, and some industrial wastes.

- **Type 4** — Commonly referred to as Construction and Demolition (C&D) landfills. A Type 4 facility contains units that may only accept brush, construction or demolition waste, and/or rubbish. They may not accept putrescible wastes, conditionally exempt small-quantity generator waste, or household wastes.

- **Type 1AE** — A Type 1 landfill that is permitted as an “Arid Exempt” (AE) landfill. Arid exempt landfills are exempt from liner system and groundwater monitoring requirements and must meet the following conditions: dispose less than 20 tons per day based on an annual average, show no evidence of existing groundwater contamination, serve a community that has no practicable waste management alternative, and be located in an area that receives less than or equal to 25 inches of annual average precipitation.

- **Type 4AE** — A Type 4 landfill that is permitted as an AE landfill.

- **Type 1AE & 4AE** — A facility containing both Type 1AE and Type 4AE landfill units. The facility may simultaneously accept totals of less than 20 tons per day of waste in Type 1AE units and less than 20 tons per day of waste in Type 4AE units, based on an annual average.
Software Requirements

For the best performance with this Viewer and its tools, please use the latest version of one of the browsers listed below:

- IE 9 and higher (Compatibility View is not supported);
- Edge;
- Firefox;
- Chrome;
- Safari;
- iOS Safari; or,
- Chrome for Android.

Please note that this Viewer works best in a Chrome browser.
Application Overview

The image below (Figure 1) shows the locations of four groups of tools available in this Viewer. The use of the tools is explained in the following sections under *Navigating Around the Map*.

1. View Extent Toolbar
2. Feature Toolbar
3. Scale Bar and Coordinate Indicator
4. Attribute Table
Navigating Around the Map

Analysis Tools:

- **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.

![Search Bar](image)

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
- **Cities**: Austin
- **Coordinates**: 30.274598, -97.740374
- **Intersections**: Parmer Ln and Lamar Blvd

Attribute Table:

Click on the Attribute Table button — ![Attribute Table Button] — in the bottom center of the map to display a tabular view in the lower half of the screen of the information for the active MSW landfill locations shown in the current map area. The table is arranged so that each row represents a facility and each column provides information about each facility. To close the table, click the button again.
The Attribute table has several controls:

**Options** — Use the Options drop down menu to filter attributes, show and hide columns, or to export the table to an Excel spreadsheet.

**Filter by Map Extent** — Click this button to only show the attribute information for facilities in the current map view.

**Zoom To** — Select a specific facility in the table by clicking on the row on the table, then click on the *Zoom* button to zoom to its location.

**Clear Selection** — Click this button to clear your previous selections and show all facilities within the currently visible part of the map.

**Refresh** — Click this button to reload the attribute table.

**Main Toolbar:**

**Measure**

- The Measure tool enables the user to measure point, linear, and area features on the map.
- To measure a feature, click on the **Measure** tool on the main toolbar.
- The Measure window will appear as shown below.

![Measurement](image)

- 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 three 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 Measure window.

**Distance** - Click this button, choose a unit of measure 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 Measure window.

**Location** - Click this button, choose a unit of measure from the drop-down list, then click a point on the map then move the mouse across the map. Result will display the coordinates for both the green indicator and cursor.

**Bookmarks**

- The **Bookmark** tool can be used to view a particular map extent (or zoom area).
- To **view** a bookmark, click on the Bookmark tool ![Bookmark icon] in the main toolbar.
- To close the window, click the ![Close button] in the upper right-hand corner. To collapse the window, click the ![Collapse button] just to the left of the close button.
**Layers**

- The **Layers** tool can be used to turn on and off data layers such as the Surface Water Intake and the current query results.
- Simply click the **Layers** button in the main tool bar, then check or uncheck the data layers you would like to see.
- 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.

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

- Click the three dots to the right to set the layer transparency and drawing order.

**Legend**

- The **Legend** tool shows the symbology for the selected layers that are set using the layers tool.
- Simply click the **Legend** button in the main tool bar.
- 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.

**Legend**

MSW_Facility Viewer 2019

Active Landfills

- Counties
- Texas

**Basemap**

• The **Basemap** tool 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 tool on the main toolbar, then select the basemap you wish to use.
• 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.

• You may choose from twelve different basemaps. Note: Some basemaps
  (such as Open Streetmap) are not visible when zoomed in too close.

Print

• Use the Print tool to save the current map to an image file. You may
  give it a customized title, select a layout and size, and format. Advanced
  features include ability to set map scale, pixel dimensions, and DPI.
Coordinate Indicator:

- Click this tool, then click anywhere on the map to obtain the coordinates in decimal degrees.
- The tool will also show the coordinates of your current mouse position over the map.

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