

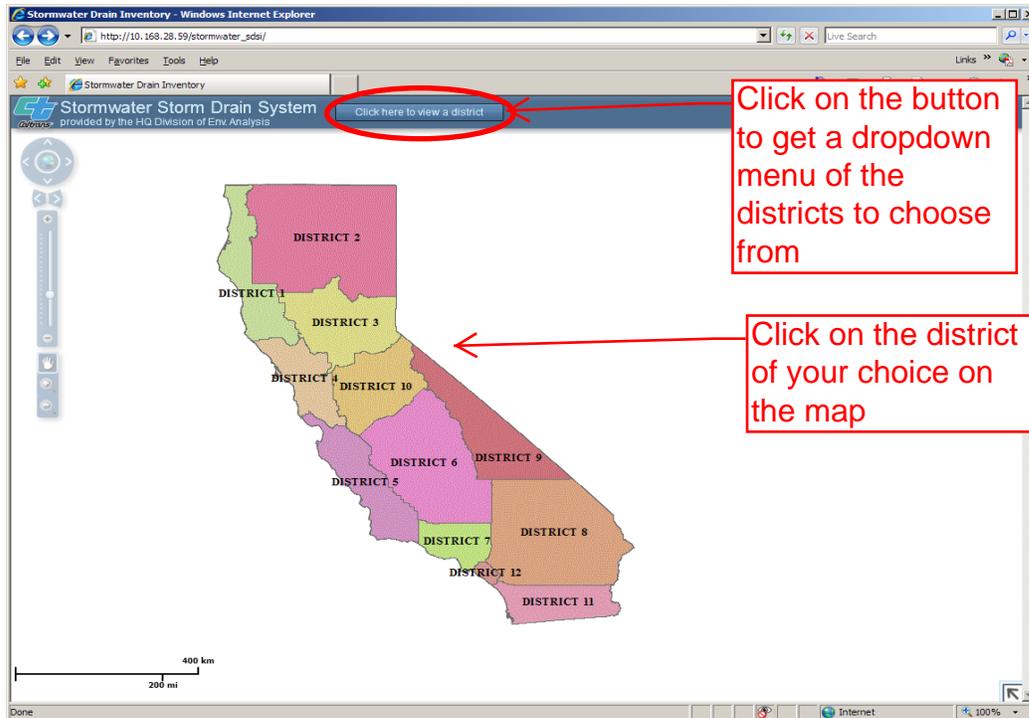
Functionality of Layers Tool

Purpose

The purpose of the tutorial is to showcase the functionality of the Layers Tool. The layers tool is used to list the layers used in a map. Also, a legend of all visible features is displayed.

Layers Tool

1. When you first open the application you get the map of California with different districts.

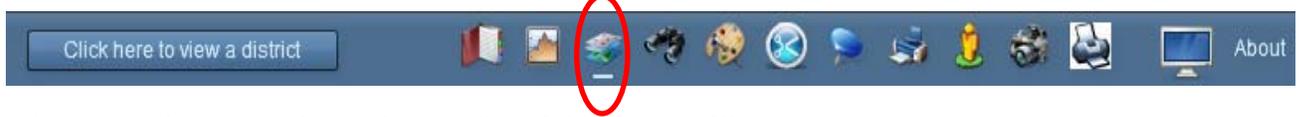


2. Click on the district to see the more detailed district map. You can also choose your district by clicking on the button "**Click here to view a district**". When you click on the button you get a dropdown of all the districts from where you can choose the district of your choice.

This can be done later also if you realize that the wrong district was chosen. You can always click on the button to select the correct district.



3. Click on the Layers icon.



4. When you click on the layers icon, a list of the layers will appear.

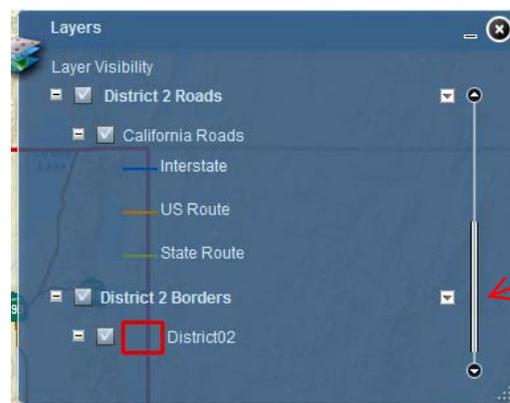


Click here to expand the layers

5. Click on the + icon to expand the different layers. You can use the scrollbar on the right to scroll down and see the expanded layers.

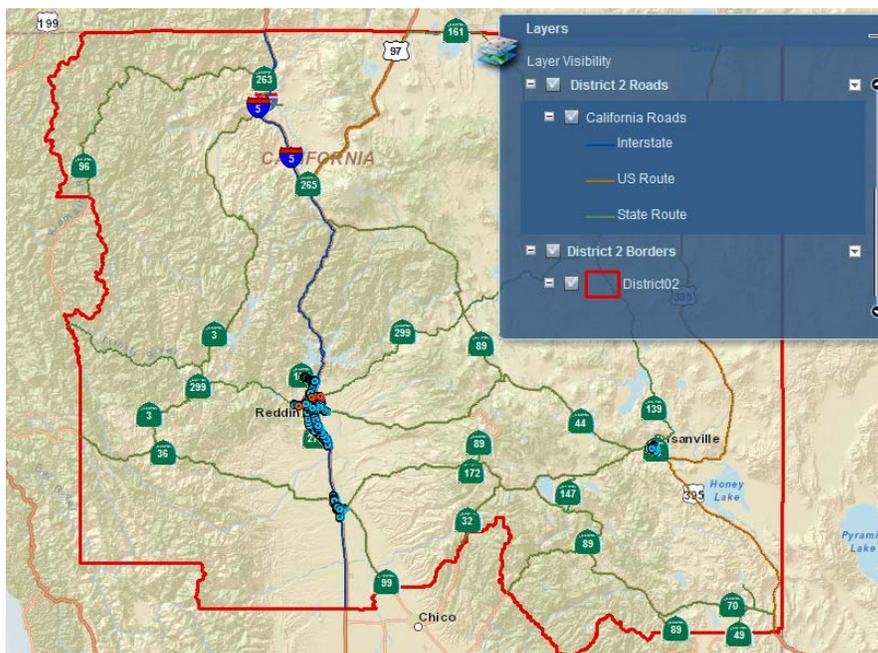


District 2 Stormwater Drain System expanded

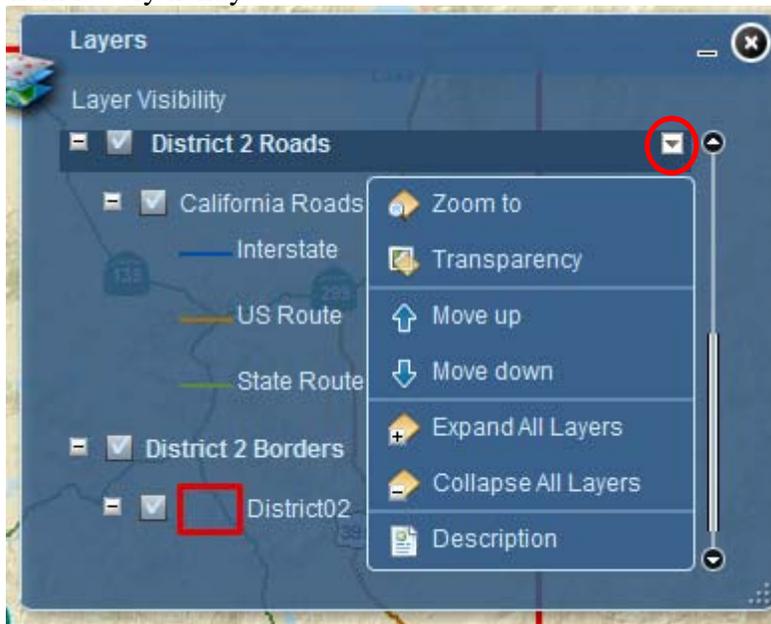


Scrollbar

6. Select or deselect the different features by checking or unchecking the checkboxes to see them on the map. For example on the above two images all the features are selected. Therefore all the features are shown on the map. You need to follow the legend on the map.

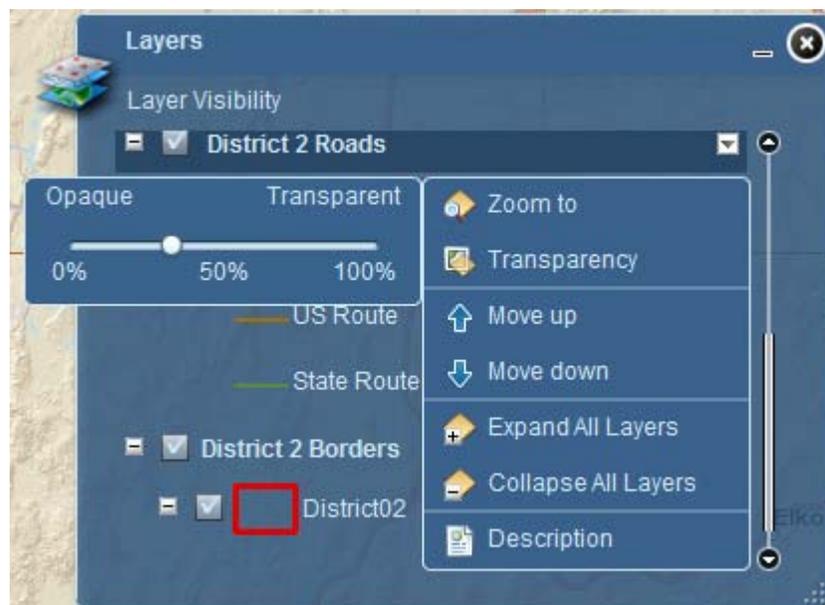


7. If you click on the down arrow beside the layers, you get several other features like Zoom, Transparency, Move up, Move Down, Expand all Layers, Collapse All Layers, Description. Each of them is very handy.



- Zoom to:** Zoom to will zoom out the map. You can zoom back in by double clicking on the map.
- Transparency:** Transparency will make the layer opaque (0% transparency) or transparent (100% transparency) or somewhere in between depending on the percent of transparency chosen.

100% transparency is when the layer is no more visible and 0% transparency or opaque is when the layer is fully visible.



- Move Up/Move Down:** By clicking on Move Up or Move Down, you can move a certain layer upward or downward to make one layer more visible than another.

Stormwater Drain system visible being on top layer

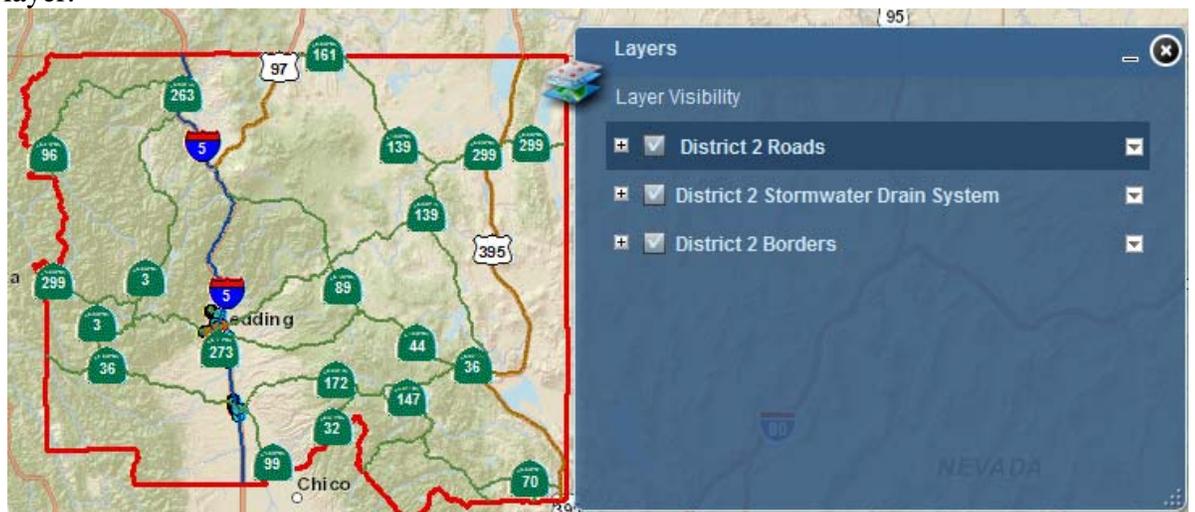


In the image above, you can see that District 2 Stormwater Drain System is on top of District 2 Roads. Let us now move up District 2 Roads by clicking on the down arrow beside District 2 Roads and then clicking on Move Up. Alternately you can also click on the down arrow beside District 2 Stormwater Drain System and then click on Move Down. Both will give the same result.

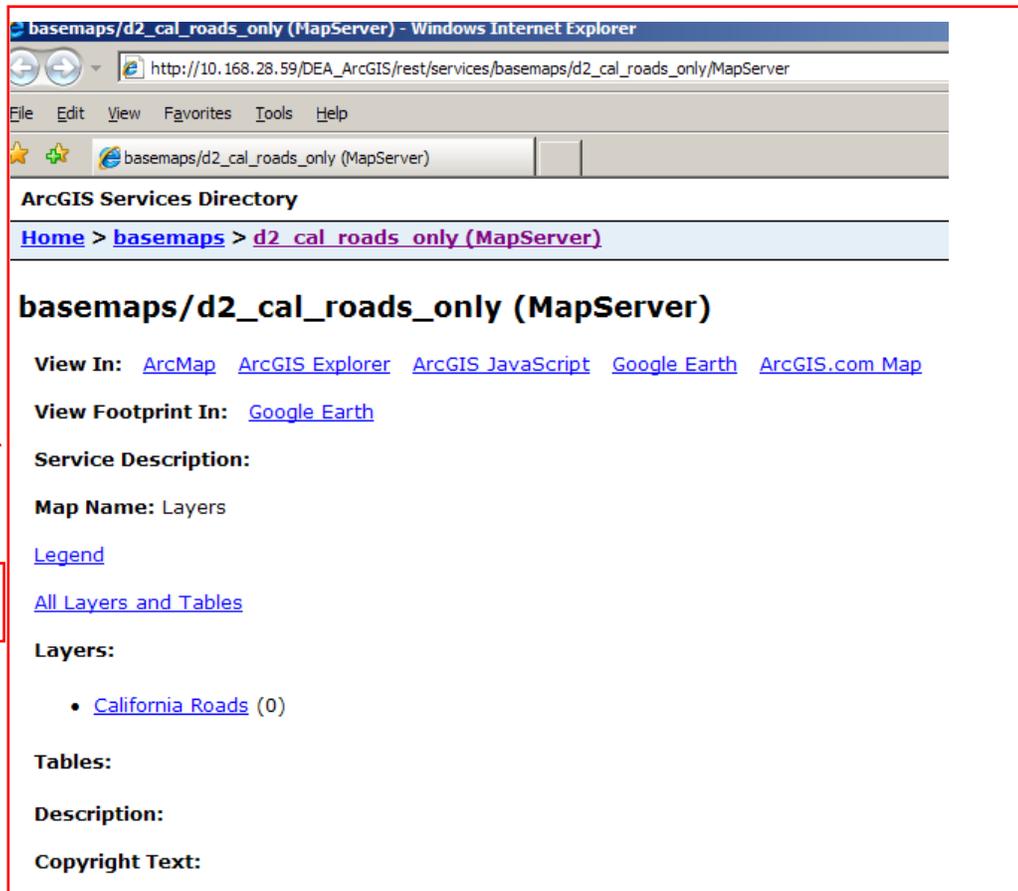


Now we see that the District 2 Roads layer is on top of District 2 Stormwater Drain System layer.

District 2 Roads is on top layer - Drain system shows below the roads



- d. Expand All Layers/Collapse All Layers: This will expand or collapse the different layers – the same result of clicking the + or – icon at the side of each layer.
- e. Description: This will open up a new browser with the metadata of the layer.



The screenshot shows a web browser window with the following content:

- Browser title: basemaps/d2_cal_roads_only (MapServer) - Windows Internet Explorer
- Address bar: http://10.168.28.59/DEA_ArcGIS/rest/services/basemaps/d2_cal_roads_only/MapServer
- Navigation menu: File, Edit, View, Favorites, Tools, Help
- Page title: ArcGIS Services Directory
- Breadcrumbs: Home > basemaps > d2_cal_roads_only (MapServer)
- Section header: basemaps/d2_cal_roads_only (MapServer)
- View options: View In: [ArcMap](#), [ArcGIS Explorer](#), [ArcGIS JavaScript](#), [Google Earth](#), [ArcGIS.com Map](#)
- View Footprint In: [Google Earth](#)
- Service Description:
- Map Name: Layers
- Legend: [Legend](#)
- All Layers and Tables: [All Layers and Tables](#)
- Layers:
 - [California Roads](#) (0)
- Tables:
- Description:
- Copyright Text:

Metadata of the layer

For a video tutorial of this topic, visit http://env.dot.ca.gov/env_gis/tutorials/layers/layers.html