

Community-Focused Exposure and Risk Screening Tool (C-FERST)



Maps User Guide

C-FERST Maps User Guide

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Introduction to C-FERST Maps

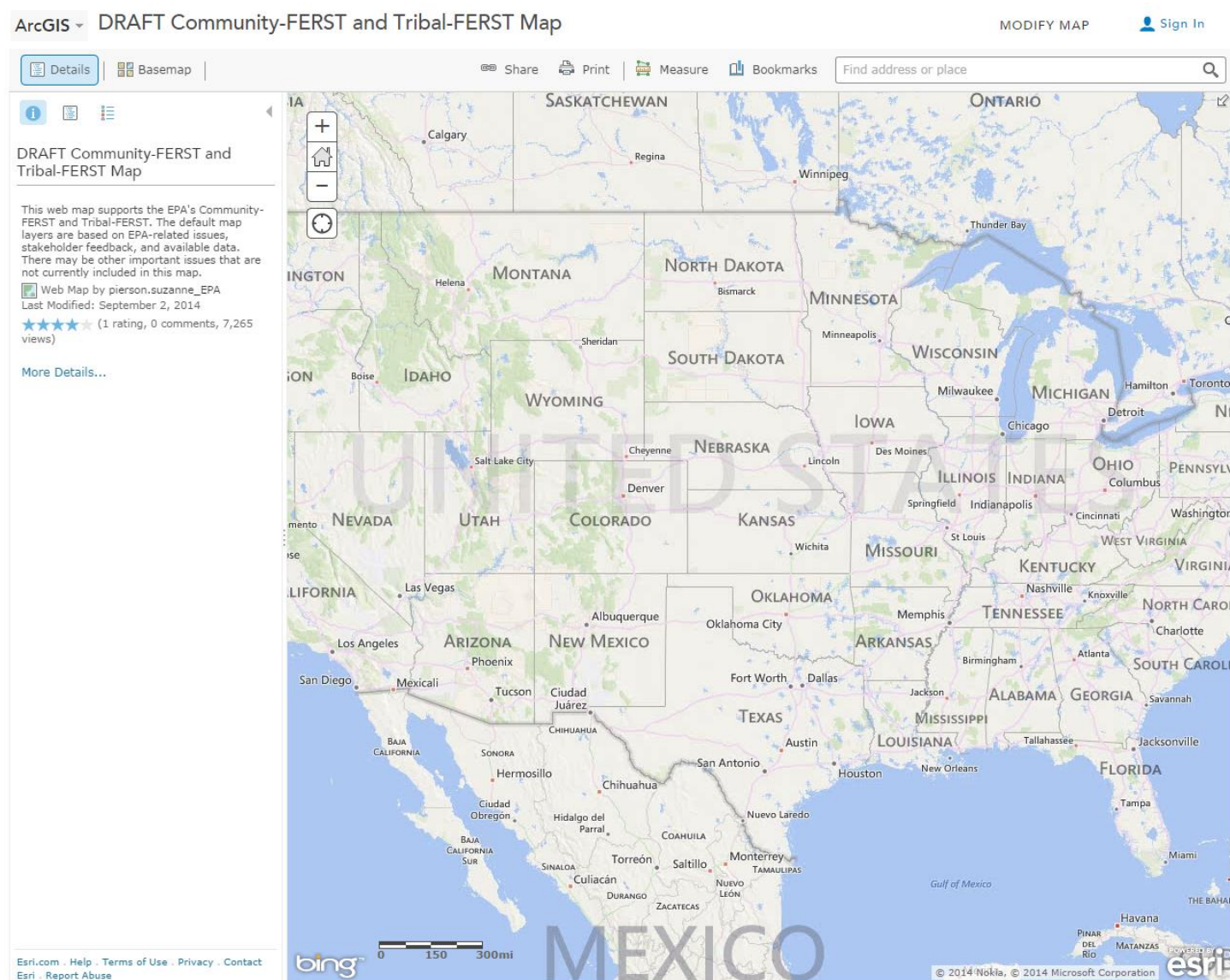
C-FERST maps allow users to view [map layers](#) that contain data on key community characteristics such as: routes and sources of potential exposures; estimated pollutant concentrations, exposures and potential risks from pollution; demographic characteristics; and other key features such schools and roads.

The map layers are displayed in C-FERST using an ArcGIS Online map viewer, shown below, which offers tools to:

- view and navigate the provided map layers;
- search for and add more map layers;
- access metadata and links for downloading map layers; and
- print the maps you generate.

This guide will first describe the [basic features](#) of the map viewer and then provide instructions on [how to use C-FERST Maps](#).

To view the maps in full screen, click the green “View Map in Full Screen” button on the C-FERST Maps page.

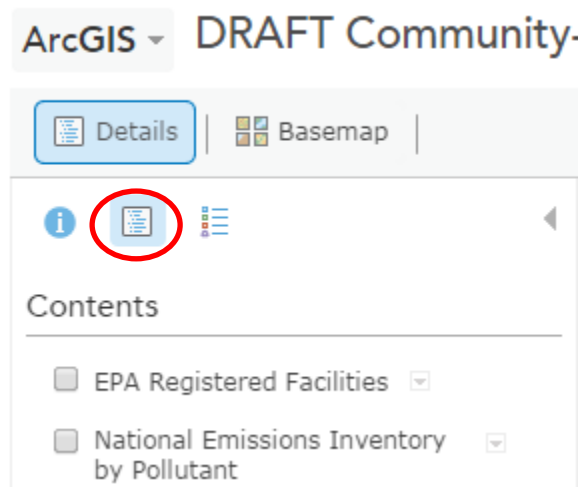


Basic Features of C-FERST Maps

Key features of the map viewer are briefly described below. Additional information can be found online at <http://doc.arcgis.com/en/arcgis-online/>. For more detailed instructions on how to use these features, see the next section, [How to use C-FERST Maps](#).

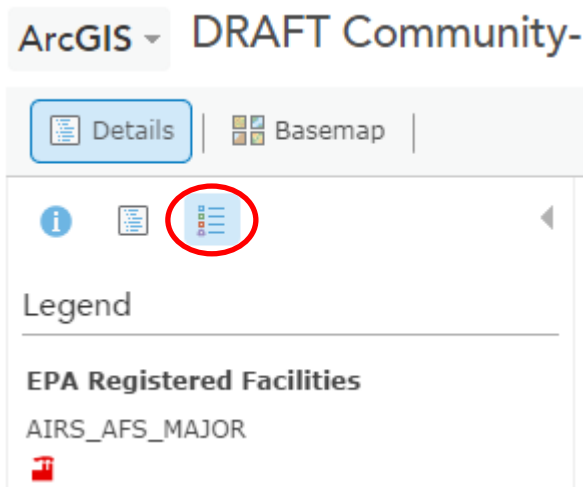
Show Map Contents

To see listing of available map data layers, click the 'Show Contents' button, which is the 2nd button in the content pane on the left side of the map:



Show Map Legend

Clicking on the 'Show Map Legend' button will display a legend for map layers that are currently selected or active:



Location search box

To zoom to a specific location, type a location name or ZIP code in the search field at the upper right corner of the map.



Zoom

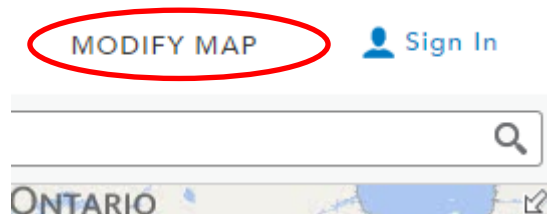
Use the zoom buttons on the left side of the map to zoom in or out.



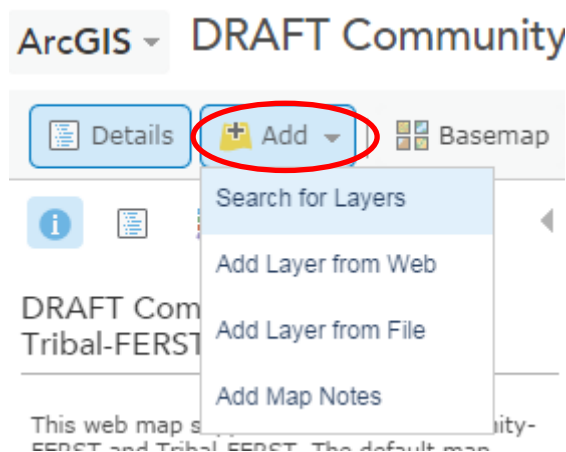
Modify Map & Add Map layers

Map users may also add map layers locally, from ArcGIS Online, from a GIS server, or from the web as an ArcGIS Server web service, an OGC Web Service (WMS), a KML, GPS Exchange Format file (.gpx), a delimited text (.txt), or comma-separated values text file (.csv) file.

First, click the **Modify Map** button in the top right corner of the map viewer.

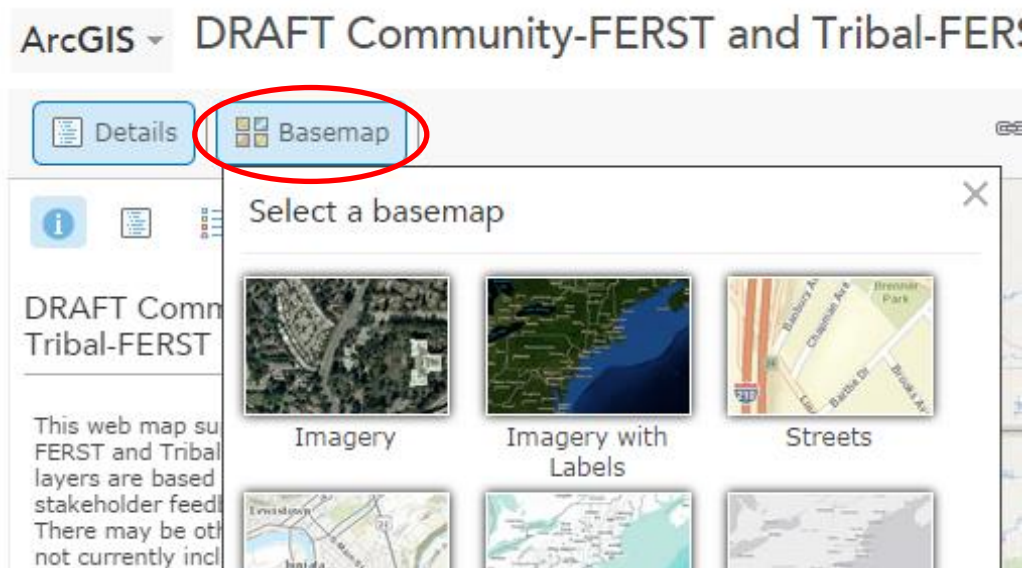


Then, click the **Add** button that appears in the left corner of the map viewer.



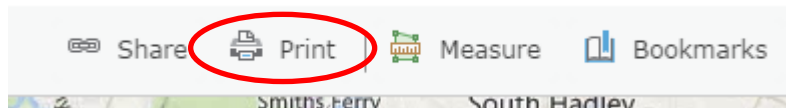
Basemaps

The basemap button provides the option of displaying different Esri™ basemaps such as streets, imagery, topography, National Geographic basemap, oceans, etc.



Print & Share

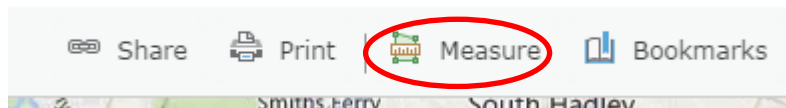
The print button is located at the top of the map viewer.



You will notice that there is also a share button. This button simply shares an image of the location where your map is zoomed in. It will not share any other details of your map, such as map layers you are viewing or have added.

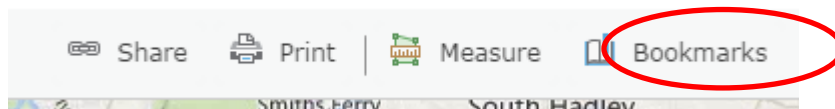
Measure

The measure button provides tools to find an area, length, or location.



Bookmarks

The bookmarks button allows users to bookmark locations on the map to easily return to later.



How to use C-FERST Maps

Step 1: Zoom to your location

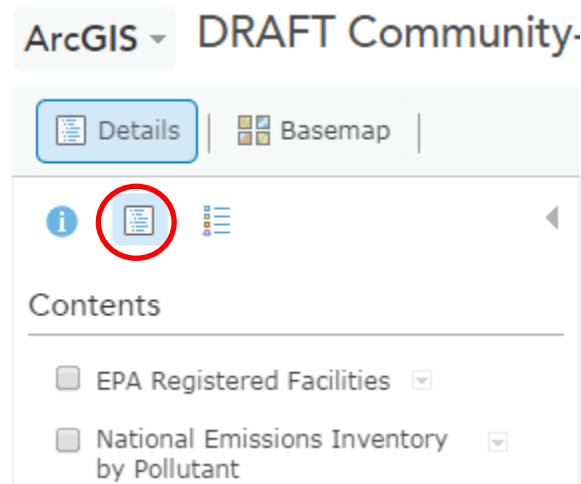
Start by zooming into your location by typing a location in the upper right search box, or by using the zoom buttons on left of map.

To move the map around, simply click and hold the mouse button down anywhere on map and drag the map to the desired view.

Step 2: View one or multiple map layers

View Menu

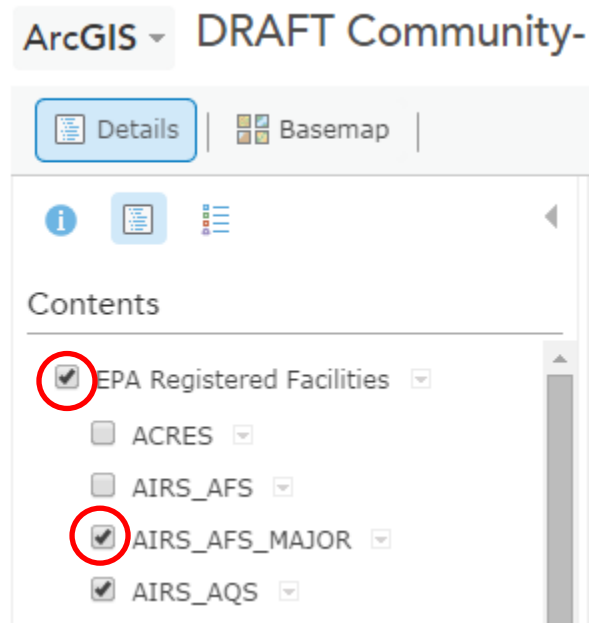
To view the menu of C-FERST Map layers, click the map contents button on the left side of the map:



Each of these maps (or map services) contains several map layers within it. To view these layers, click the name, such as EPA Registered Facilities, and the list of layers will appear below it.

Select Map Layers to View

To select, or turn on, a map layer (or several layers), click the check box next to the name of the layer(s) and then click the check the box next to the name of the parent layer.

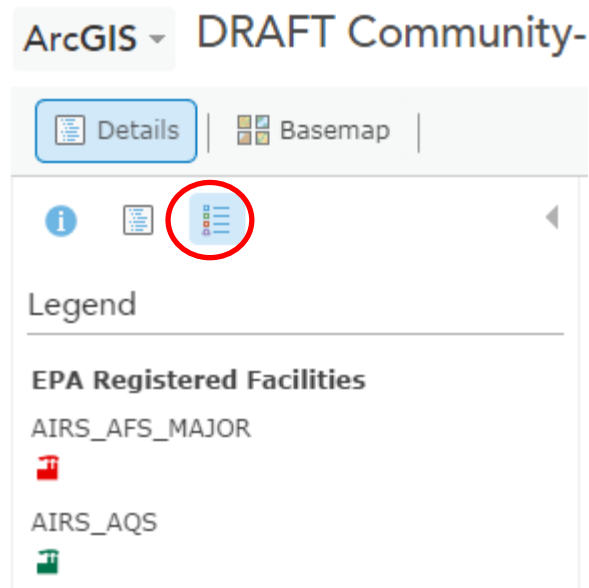


Important Notes!

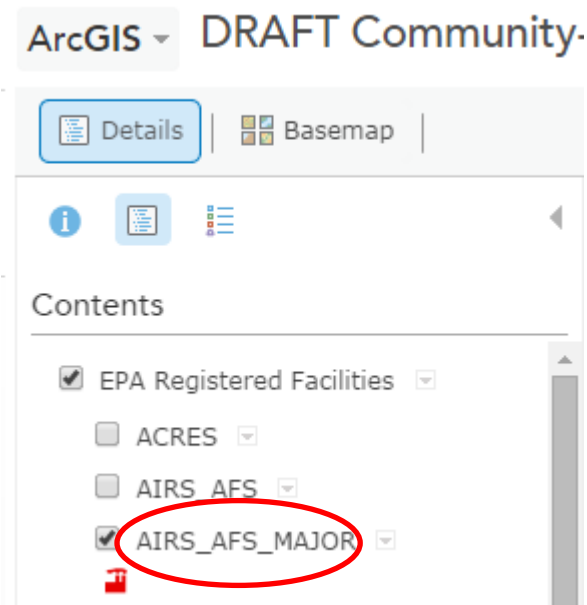
- Both the map layer heading (map service) and the individual layers of the map must be checked for the individual map layers to be displayed.
- Different map services are displayed and different spatial scales. You will need to zoom in closer to view some layers.
- You can view layers independently or overlay multiple layers at a time. **Overlaying information on maps should not be used to establish causal relationships.** You may need to [adjust the transparency](#) to view layers that might be covered by color shading or patterns.

View the Legend

To view the legend for all layers that are displayed, click on the legend button.

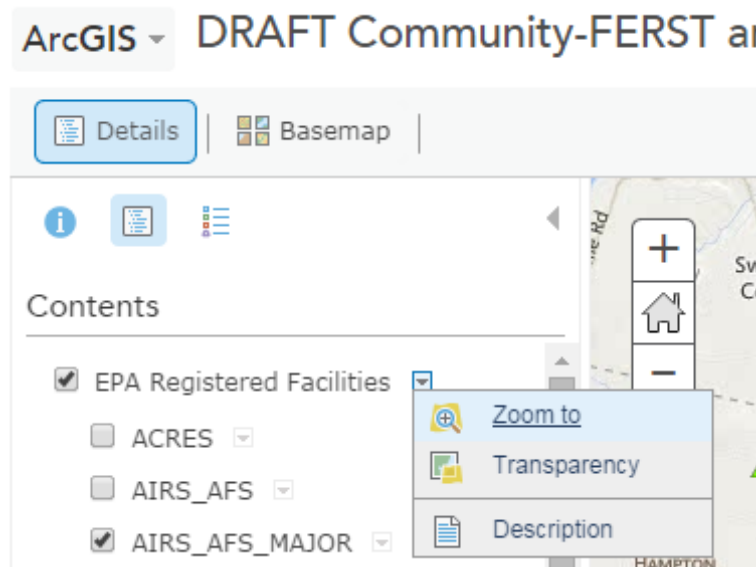


To view the symbol for a single layer, click on the layer and the symbol will appear below (click again to close).



View or Modify Map Layer Details

To view or modify layer details, click the down arrow that appears to the right of the layer name. Click on the arrow to open the menu of options you can perform on that layer.

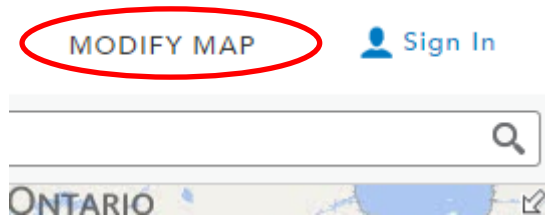


Different layers will have different options in this drop down menu, but two important and useful features are:

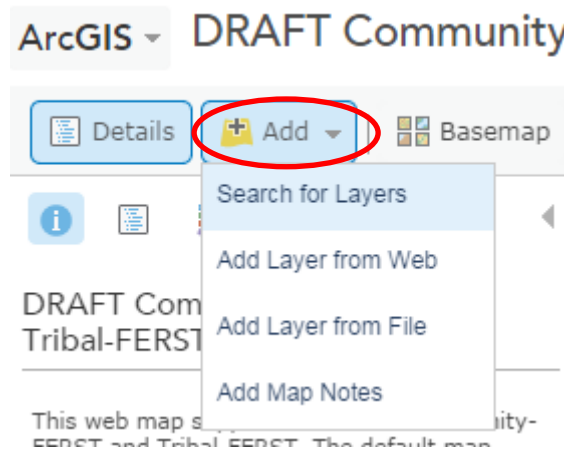
- **Transparency**, which allows you to adjust transparency of layers so that basemap features like roads are easier to see; and
- **Description**, which allows you to view the map metadata description and has links for [saving/downloading the map layer \(see below\)](#).

Step 3: Add map layers (Optional)

To add map layers to C-FERST Maps, first click the **Modify Map** button in the top right corner of the map viewer.



Then, click the **Add** button that appears in the left corner of the map viewer.



A menu will drop down with several ways users can add data to the maps:

- 1) Search for maps from ArcGIS Online, the web, or a known GIS server
- 2) Add layers from the web (e.g., specific URL's)
- 3) Add files in the following formats*: zipped shapefile (ZIP) with up to 1000 features, a CSV or TXT file with up to 1000 features or 250 features if using addresses, or a GPS Exchange Format (GPX) file.

See ArcGIS.com Help for more [detailed instructions on how to add map layers](#).

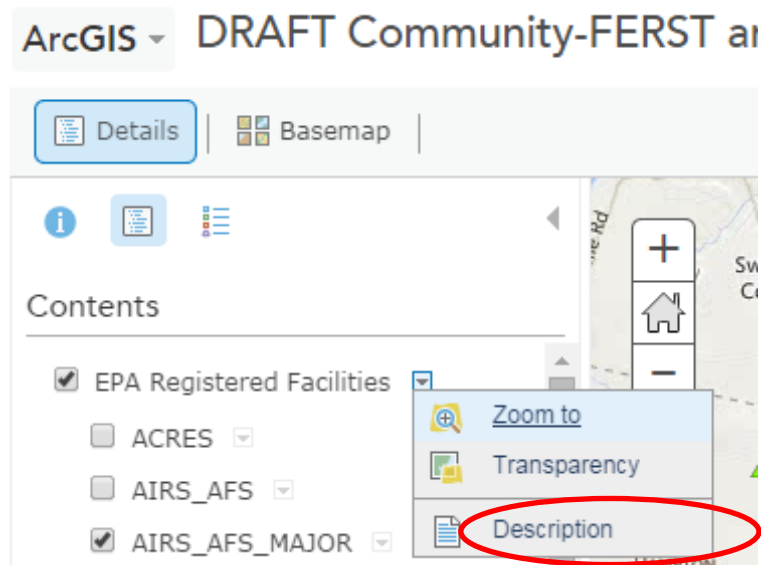
Important Note!

- Data added to the maps will not be saved to any EPA database.

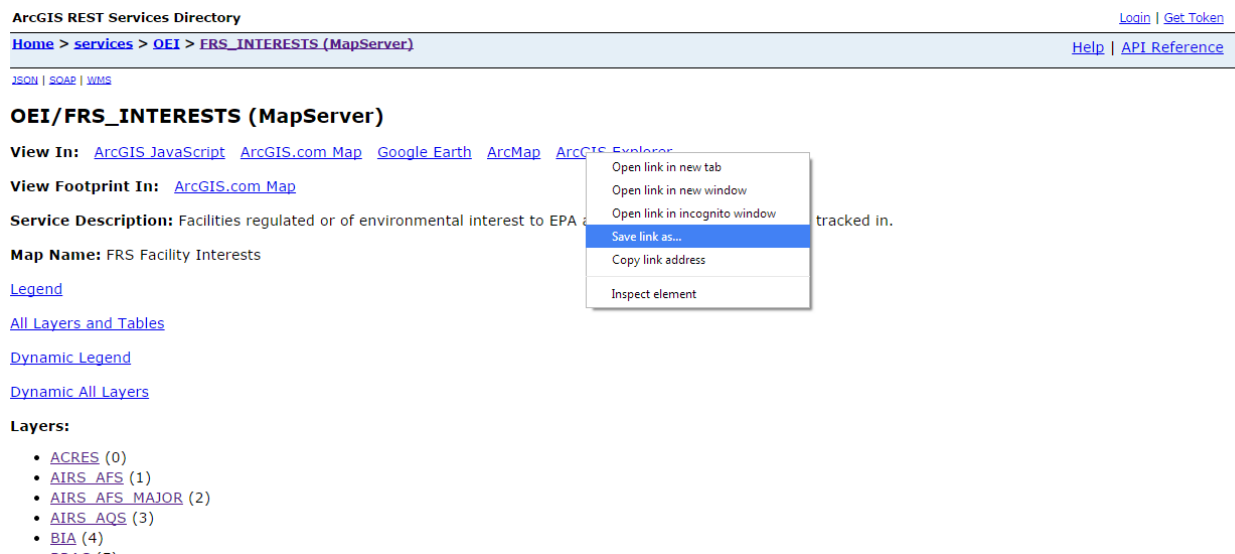
Step 4: Save map layers (Optional)

Advanced users:

If you would like to save any of the map layers available in C-FERST maps to use later in a desktop ArcGIS or other application, you can do so by accessing the map service description from the details menu, [as described above](#).



The map metadata description will open in a new window or tab. Right click on one of the viewing options at the top of the page and click “Save Link as” to save.





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