Instructions on Using Water Quality Portal Services in ArcGIS Online
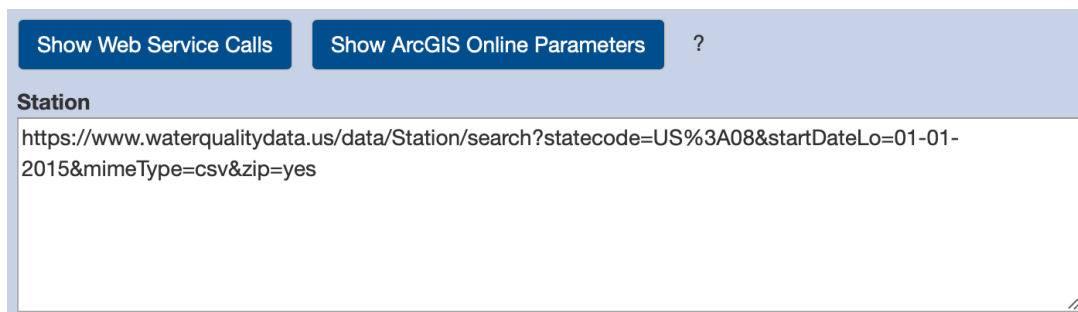
Part 1: Getting the Service URL
1. Navigate to the Water Quality Portal at www.waterqualitydata.us/portal/.
2. Narrow your search down to a single state and a handful of years to keep the size of your data small.
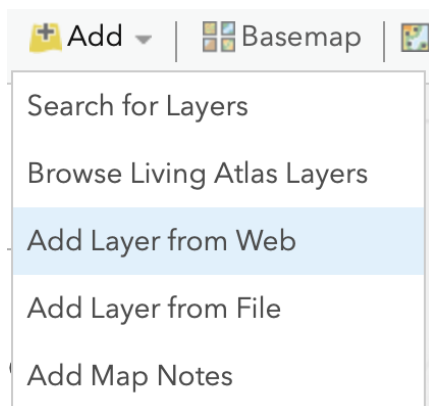3. Under **Select data to download** select **Site data only**.

4. Click the button labeled **Show Web Service Calls**, and copy the URL located in the box under **Station**.

Part 2: Displaying Stations in ArcGIS Online
1. Log into your ArcGIS Online account, preferably one through your organization, if available.
2. Create a new web map.
3. Click the **Add** button and select **Add Layer from Web**

4. In the **Add Layer from Web** dialog box, for **What type of data you are referencing?** select **A CSV File**, paste the URL that you copied from the Water Quality Portal into the **URL** field, and change "zip=yes" to "zip=no" at the end of the URL
5. Click **Add Layer**

Add Layer from Web

What type of data are you referencing?

A CSV File ▾

URL: s/data/Station/search?statecode=US%3A08&startDateLo=01-01-2015&mimeType=csv&zip=no

Having trouble displaying your CSV file? Help us improve this site by sending us the URL via the Contact Esri link.

ADD LAYER   CANCEL

6. In the **Add CSV Layer** dialog box, select **Coordinates** under **Locate features by**
7. Scroll through the field names to find the field named "LatitudeMeasure". Under the corresponding **Location Fields** change it from "Not used" to "Latitude". Do the same thing for the "LongitudeMeasure" field changing it from "Not used" to "Longitude"
8. Click **Add Layer**

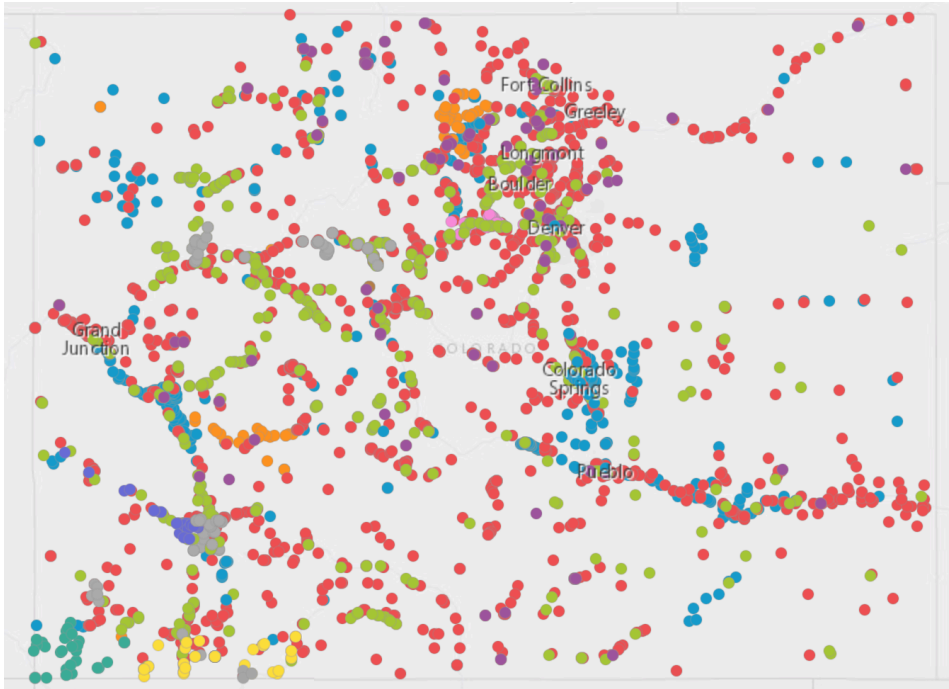Add CSV Layer

Locate features by:

◉ Coordinates ○ Addresses or Places ○ None, add as table

Review the location fields. Click on a cell to change it.

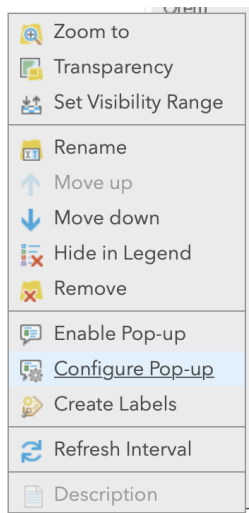| Field Name	Location Fields
LatitudeMeasure	Latitude
LongitudeMeasure	Longitude
SourceMapScaleNumeric	Not used
HorizontalAccuracyMeasure_Me	Not used

ADD LAYER   CANCEL

9. Choose which attribute to show and symbolize on, the example below has the monitoring stations colored by "OrganizationFormalName"

Part 3: Accessing Result Data Through ArcGIS Online

1. Click the three circles below and to the right of the station layer and select **Remove Pop-up**
2. Click the three circles again and select **Configure Pop-up**

3. Under **Pop-up Title** select the "MonitoringLocationName" field so that users will know the name of the monitoring station they clicked on
4. Under **Pop-up Contents** select **No attribute information**

☑ Show Pop-ups

Pop-up Title

csv:{ProviderName}
{MonitoringLocationName}   ⊞

Pop-up Contents

Display: No attribute information ▾

No attribute information will display

Configure Attributes

5. Scroll down to **Pop-up Media**, click **Add**, and select **Image**
6. In the **Configure Image** dialog box under **Title** choose the "MonitoringLocationIdentifier" field, under **URL** choose an image to use that users can click on to get the monitoring data such as the National Water Quality Monitoring Council logo at https://www.waterqualitydata.us/static/img/NWQMC_header_web_960w.ba7faddb.png
7. Go back to the Water Quality Portal under **Select data to download** choose **Sample results (physical/chemical metadata)**, and copy the URL from the **Result** box
8. Go back to ArcGIS Online and paste the results URL under **Link (optional)** in the **Configure Image** dialog box
9. Change "zip=yes" to "zip=no" at the end of the URL
10. Before "&startDateLo=" in the URL add "&siteid=" After "siteid=" add the MonitoringLocationIdentifier field to the URL, this will download the result data for the specific monitoring station that was clicked, the URL should look similar to this: https://www.waterqualitydata.us/data/Result/search?statecode=US%3A08&siteid={MonitoringLocationIdentifier}&startDateLo=01-01-2015&mimeType=csv&zip=no

Configure Image   ✕

Specify the title, caption and URL for this image. Insert field
names to derive the display from attribute values.

Title:

{MonitoringLocationIdentifier}   ⊞

Caption

                                          ⊞

URL

https://www.waterqualitydata.us/static/img/NWQ   ⊞

Link (optional)

https://www.waterqualitydata.us/data/Result/sear ⊞

Refresh Interval
☑ Refresh image every   0 minutes.

        OK   CANCEL

11. Click **OK** and click **OK** again under the **Configure Pop-up** pane

12. Click on any monitoring station to open the pop-up and click on the image in the pop-up to download the monitoring results for that station