

Contaminated Sites Web Map

Alaska Department of Environmental Conservation – Spill Prevention and Response

How to find and use the Contaminated Sites web map for Alaska

This map was created by the State of Alaska Department of Environmental Conservation - Contaminated Sites Program to assist the public in identifying known Contaminated Sites in the State of Alaska.

This map displays contaminated sites throughout the state of Alaska. It has the capability to provide basic information about each site and a link to the more detailed cleanup chronology report for a selected site on the DEC Contaminated Sites Database.

This tutorial will provide basic instruction on how to navigate to a location and to identify a contaminated site if present. The imagery available to visually identify locations is improving all the time and is quite detailed for some areas. The locations of the symbols for the known contaminated sites are located using the best available information as provided to the DEC but may not be in the exact location of the actual contamination. If you need a better understanding of the history and cleanup status at a site, that can be learned by examining the hard copy files and reports at the DEC offices for each region of the state.

To access the map go to the main DEC web site at: <http://dec.alaska.gov/>

On the left hand side of the page click on the DEC Maps Logo:



This will open the DEC Web Maps Gallery: Click on the Contaminated Sites thumbnail (small picture) to go to the description and launch page for the map.

WELCOME TO DEC WEB MAPS

In this map gallery, you will find links to the DEC's public interactive web maps. Each map is focused on a program area or major incident. Click on a thumbnail image or map title to go to the map's information page, then open the map. More information on how to use the web maps can be found [here](#).

The majority of our maps have been developed in ArcGIS.com and can be opened in your web browser with the ArcGIS.com viewer or ArcGIS Explorer Online. They can also be opened in ArcGIS Desktop 10 or with the free ArcGIS app for iOS, Android and Windows Phone devices. Air Quality web maps are custom applications that can be opened in your web browser from the map's information page.

Click on one of the thumbnail pictures of the map you wish to see. This will take you to the description page for that map. Read the details about that map and then select the ArcGIS.com map viewer by clicking the Open button under the thumbnail image. You can also just click the image and go directly to the ArcGIS.com map viewer for that map. The web map will open in the default view as set for that map.

Additional details on how to navigate a map and use the various tools of the ArcGIS.com map viewer can be found in the ArcGIS.com help documentation [here](#).

MAPPING RESOURCES

- ★ Web Maps
- ★ ArcGIS Services Directory
- ★ Links to other State mapping sites

Alaska DEC Drinking Water Protection Areas

Alaska DEC Fish Tissue Mercury Samples by Site

Alaska DEC Impaired Waters

Alaska DEC Japan Tsunami Debris Survey

Alaska DEC AWS Challenge Communities

Alaska DEC Contaminated Sites

Once the Description and Launch page for the Contaminated Sites Map displays you can read about the map contents and the data disclaimers or select OPEN to launch the map in the viewer. You can also just click on the thumbnail to launch the map. There is a link to the HELP documentation for ArcGIS.com here as well.

ArcGIS FEATURES PLANS GALLERY MAP **HELP**

Alaska DEC Contaminated Sites



Contaminated Site Locations with Cleanup Chronology Reports from Alaska DEC

Web Map by [adec.wkboger](#)
Last Modified: February 24, 2014

★★★★★ (1 rating, 26,641 views)
Sign in to rate this item.

[Facebook](#) [Twitter](#)

OPEN → [Open in ArcGIS.com Map Viewer](#)

Description

The Map will open to this view.

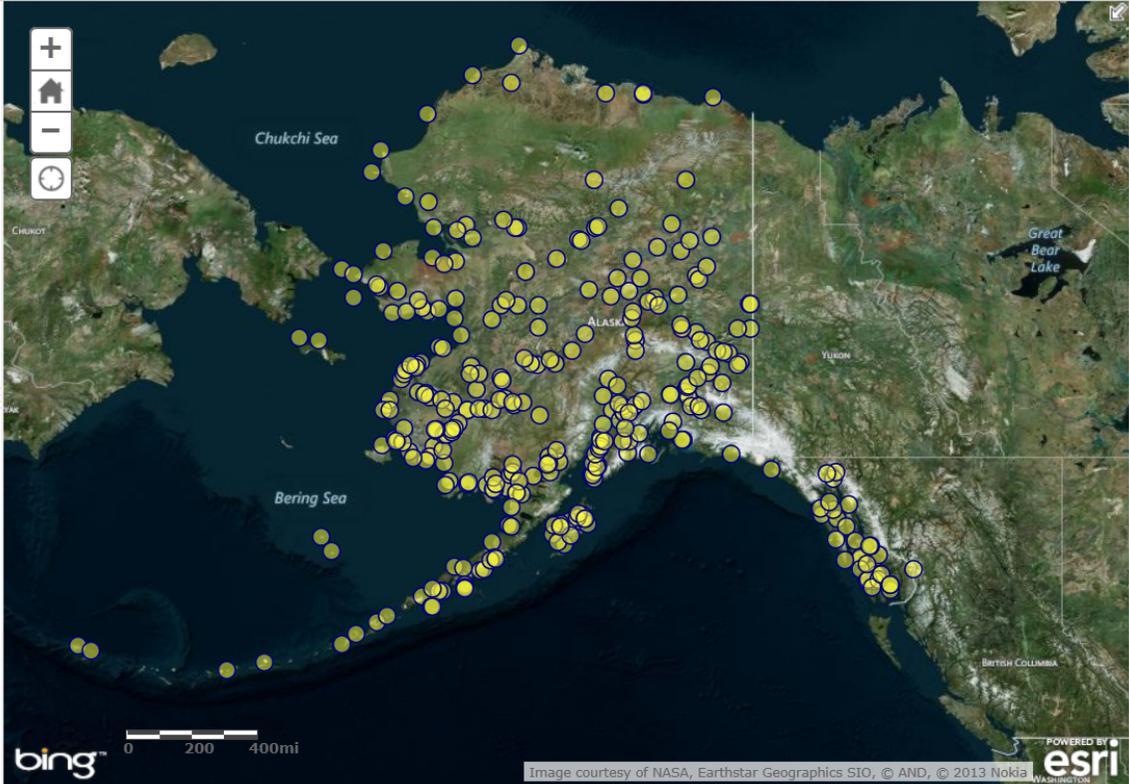
ArcGIS - Alaska DEC Contaminated Sites MODIFY MAP SIGN IN

Details | Basemap | Share | Print | Measure | Bookmarks

Legend

Populated Places

-



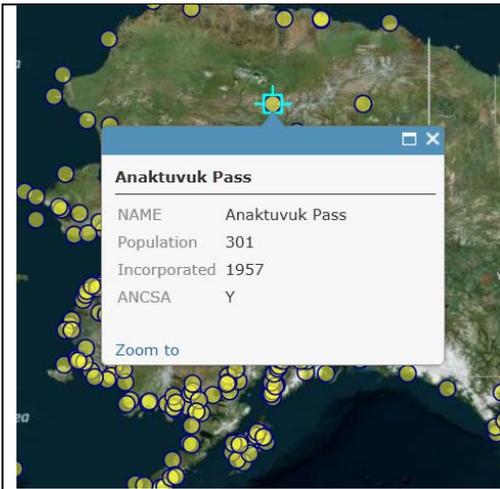
CHUKCHI SEA
BERING SEA
ALASKA
YUKON
BRITISH COLUMBIA
GREAT BEAR LAKE

bing 0 200 400mi

POWERED BY esri

Esri.com . Help . Terms of Use . Privacy . Contact Esri . Report Abuse

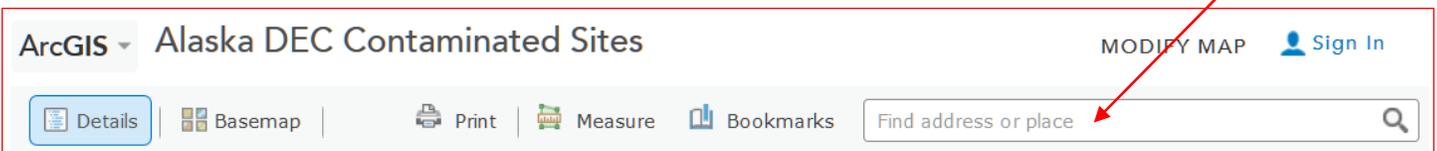
Image courtesy of NASA, Earthstar Geographics SIO, © AND, © 2013 Nokia



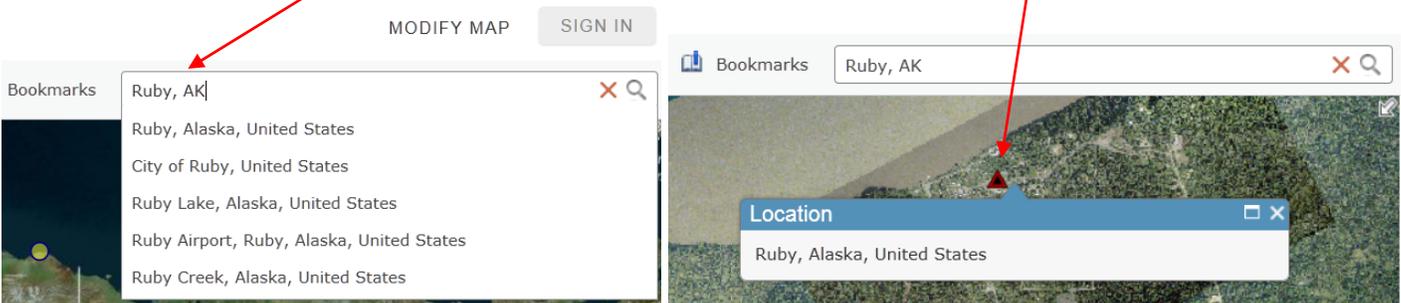
The **Populated Places** layer is for assisting in locating a particular village or part of the state. You can just click on any yellow dot to get a pop up about the village located at that spot.

As you zoom in on the map to find a location the Populated Places layer will disappear and the Contaminated Sites layer Icons will appear.

To find a location, whether it is a village, town, or just a Latitude and Longitude, you can use the search box on the top menu of the map. The major towns are listed under Bookmarks for easy location.



To go to a town you type the name along with a comma and the state. If the name is recognized, the menu will display suggestions in a dropdown. Hit return and the map will zoom to that location.



To use Longitude and Latitude you must enter them in the X,Y conventional order.

-155.486007, 64.737705 Longitude (X) first then a comma and a space followed by Latitude (Y). Use decimal degrees. Hit return or the little magnifying glass on the bar to go to that location.



Once you have located your area of interest you can choose the best imagery for that location. Select the Contents icon in the center of the left hand menu. This map has three imagery sources plus the Topo Maps layer showing and there are more available under the Basemap Pop Up on the top menu bar.



The Village Community Imagery is from the Department of Community and Regional Affairs (DCRA) and is the most detailed imagery from the State but is not available for every village. More is added every year however and soon every village will be covered. That is the small rectangle in the center of this map view.

The Village Area Imagery is also from DCRA and covers an area around the village that contains any village infrastructure. This layer is at a slightly lower resolution than the Community imagery. It is the larger rectangle showing on this map view.

The Best Statewide Imagery is also known as the Best Data Layer (BDL) and is from the State of Alaska. It covers the state and has various levels of resolution and detail depending on the location.

The Bing Maps Hybrid layer is a licensed copy of the commercial BING imagery. It is a global imagery set. If you switch away from this layer to another Basemap you will have to reload the map to get the BING layer back.

The map displays layers in the order they show in the Contents menu. You have to turn off (uncheck) a layer to see what is below it.

To navigate on the map the typical actions apply for moving and zooming. Use the scroll wheel on the mouse or the plus and minus tabs on the map to zoom in and out. You can also hold down the shift key and draw a box around an area and then release the mouse to zoom to that specific area. To move the map around just hold down the left button on the mouse and drag the image. Release the mouse button when you have the view you want.

ArcGIS Alaska DEC

Details | Basemap

Contents

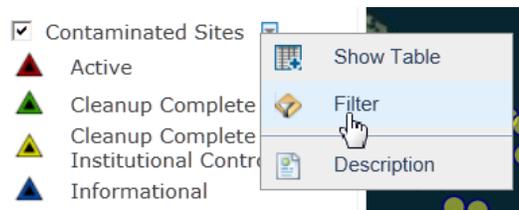
- Populated Places
- Contaminated Sites
 - Contaminated Sites
 - Active
 - Cleanup Complete
 - Cleanup Complete - Institutional Controls
 - Informational
- Village Community Imagery
- Village Area Imagery
- Best Statewide Imagery
- USA Topo Maps
- Bing Maps Hybrid

To see all of the layers available on the map select the Contents icon which is in the center of the three available in this menu window.

To see further information you can click on the name of a layer and get a drop down if it is available. All of the menus in the ArcGIS.com interface are contextual meaning that what you see depends on selections in other places on the map.

To see what is available click the small “carrot” down arrow next to each layer name.

You can change the transparency of a layer, change the symbol in a layer, zoom to that layer, or show a table of the data in that layer and filter it for a specific selection or location.

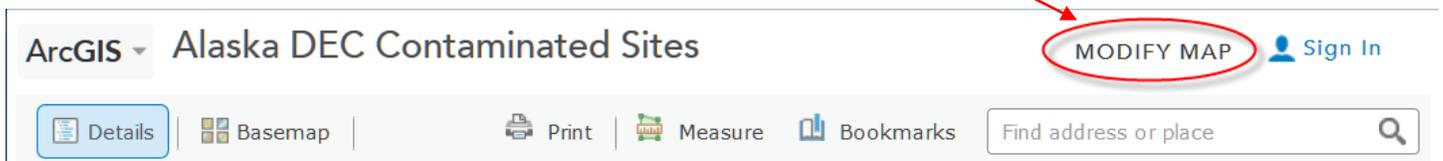


To see more of the available tools select Modify Map in the upper right corner.

ArcGIS Alaska DEC Contaminated Sites

MODIFY MAP | Sign In

Details | Basemap | Print | Measure | Bookmarks | Find address or place

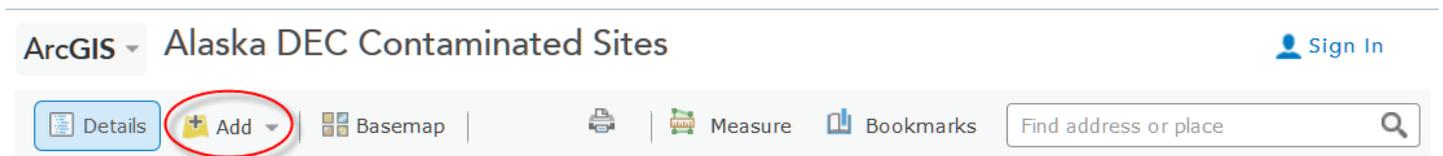


The menu will change. The Modify Map button will disappear and the Add (data) button will appear.

ArcGIS Alaska DEC Contaminated Sites

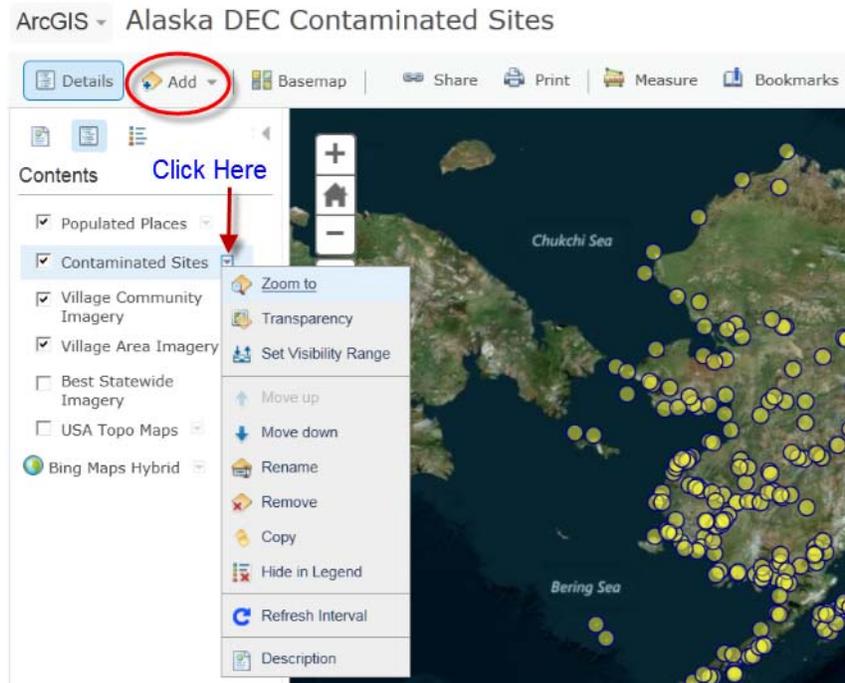
Sign In

Details | Add | Basemap | Print | Measure | Bookmarks | Find address or place

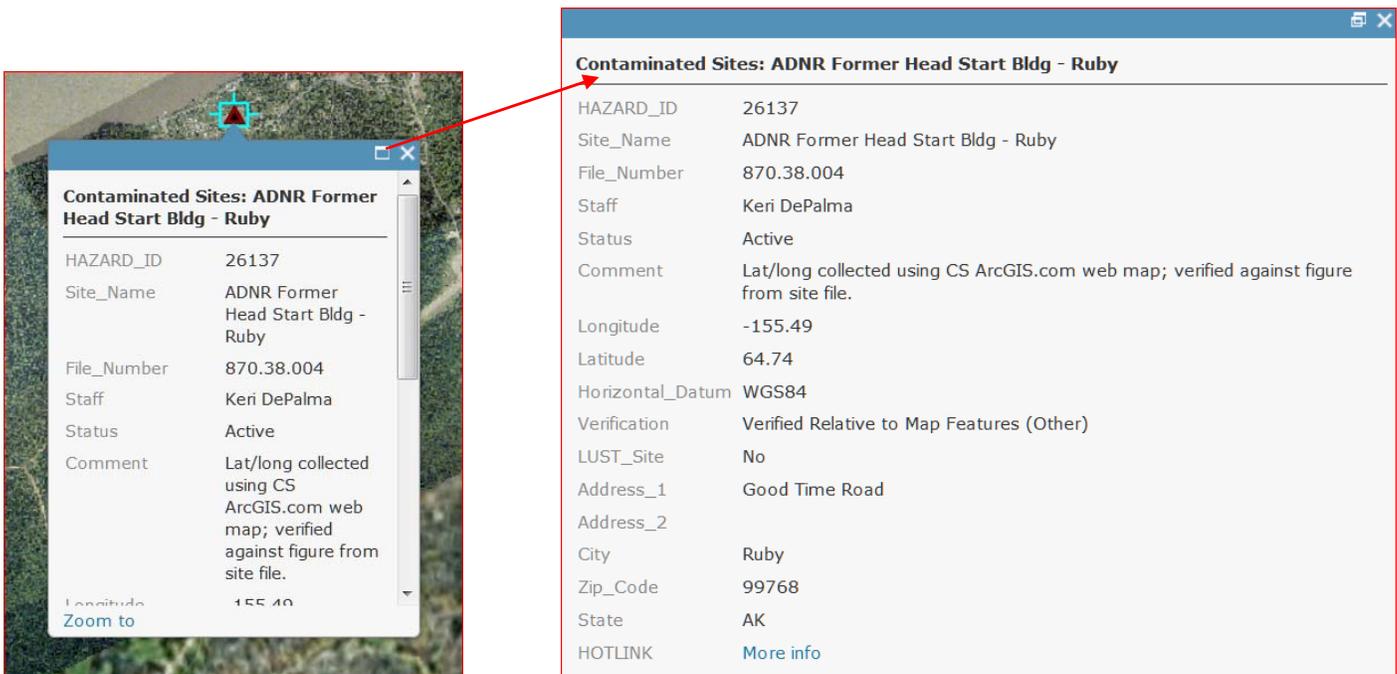


This will allow you to do more with the map and to create your own view if you need to. This is also where you can add more layers of data from other sources if you want.

Click the little “carrot” next to the layer to see the new drop down menu as shown below.



Once you are zoomed in on an area that you are interested in you can get information related to any visible Contaminated Site by just clicking on the triangle shaped colored icon for the site. You will get a Pop-up box with all the information and a link at the bottom to the Contaminated Sites Database with further detail about the site.



The Pop Up window can be expanded to see everything by clicking the small window icon at the top.

To find a specific site you will need to use the tools in the drop down menu next to the Contaminated Sites Name in the Contents menu. You need to select the drop down on the layer indicated below.

The screenshot shows the ArcGIS interface for 'Alaska DEC Contaminated Sites'. The 'Contents' panel on the left has 'Contaminated Sites' selected, and a context menu is open with 'Filter' chosen. The main map area shows an aerial view of a residential area. Below the map is a table titled 'Contaminated Sites - Contaminated Sites (7,260 features, 0 selected)'. The table has columns for HAZARD_ID, Site_Name, File_Number, Staff, Status, Comment, Longitude, Latitude, and Hori. Three rows are visible:

| HAZARD_ID | Site_Name | File_Number | Staff | Status | Comment | Longitude | Latitude | Hori |
|-----------|------------------------------------|-------------|---------------------|------------------|---------|-----------|----------|------|
| 24 | UAF Ballaine Lake Landfill | 105.23.002 | Kalu Kalu | Cleanup Complete | null | -147.82 | 64.87 | null |
| 25 | Fort Greely P. 46 Bldg 601 Freight | 141.38.038 | Emily Youcha | Cleanup Complete | null | -145.72 | 63.97 | null |
| 26 | Duncan Canal White Alice Site | 1521.38.012 | Anne Marie Palmieri | Active | null | -133.17 | 56.75 | null |

You will select "Show Table" to get the view above. The selection "Hide Table" is showing because the Table has already been selected. There are currently 7,260 sites in the Database. You want to narrow that down by using the Filter also known as a query. Select "Filter" from the drop down.

The dialog box is titled 'Filter: Contaminated_Sites - Contaminated Sites'. It has a 'Create' tab and options to '+ Add another expression' and 'Add a set'. The main area says 'Display features in the layer that match the following expression'. The expression is 'City is Ruby'. Below the expression, there are radio buttons for 'Value', 'Field', and 'Unique', with 'Value' selected. There is also an 'Ask for values' checkbox. At the bottom, there are 'APPLY FILTER' and 'CLOSE' buttons.

In this case we picked "City" from the drop down menu but you can pick any field that you have some information about. We used "is" as the modifier here as we know the name of the town, there are other selections available depending on your need. Type in the name and select Apply Filter to limit the view of this layer to just those locations with Ruby as the City Name in the Database. We get three results.

Details | Basemap | Share | Print | Measure | Bookmarks | -155.486007, 64.737705

Contents

- Populated Places
- Contaminated Sites
 - Contaminated Sites
- Village Community Imagery
- Village Area Imagery
- Best Statewide Imagery
- USA Topo Maps
- Bing Maps Hybrid

Contaminated Sites (3 features, 2 selected)

| HAZARD_ID | Site_Name | File_Number | Staff | Status | Comment | Longitude | Latitude | Horiz |
|-----------|--------------------------------|-------------|-----------------|------------------|---|-----------|----------|-------|
| 3,807 | City of Ruby Teen Center Spill | 870.38.001 | IC Unit | Cleanup Complete | null | -155.48 | 64.74 | Unkr |
| 25,914 | BLM Melozi Hot Springs | 870.38.003 | Melody Debenham | Active | Lat/long collected using DEC ArcMap GIS; location estimated | -154.69 | 65.13 | WGS |

Esri.com | Help | Terms of Use | Privacy | Contact Esri | Report Abuse

By having the Table showing you can select the site you want to go by clicking on that row to make it blue and then selecting Center on Selection from the Table Options drop down menu to be able to then zoom in on that site. Notice also that the selected site is highlighted with a Blue Box. If you query for a site without the Table showing you will see that site on the statewide map and can zoom to it but first you would need to make the Contaminated Sites layer visible at the State level.

ArcGIS - Alaska DEC Contaminated Sites

SIGN IN

Details | Add | Basemap | Share | Print | Measure | Bookmarks

Contents

- Populated Places
- Contaminated Sites
 - Contaminated Sites
 - Zoom to
 - Transparency
 - Set Visibility Range
 - Move up
 - Move down
 - Rename
 - Remove
 - Copy
 - Hide in Legend
 - Refresh Interval
 - Description
- Village Community Imagery
- Village Area Imagery
- Best Statewide Imagery
- USA Topo Maps
- Bing Maps Hybrid

Only show this layer when zoomed:

In closer than: <None> Use Current

Out further than: <None> Use Current

Map scale is 1:18,489,298 Clear

Esri.com | Help | Terms of Use | Privacy | Contact Esri | Report Abuse

You do this by selecting Modify Map to make Set Visibility Range available. Then change the In closer than: number to <None>. You can see in the above view that the Triangle icons are now visible and after the filter is applied you can see in the view below that just the Ruby icons are visible and you can zoom in.



To get all the icons to show again you need to go back into the filter and remove it. You could also select the Edit tab and change things in the filter for another query.

Filter: Contaminated_Sites - Contaminated Sites

View Edit

City is 'Ruby'

REMOVE FILTER CLOSE

For more details on how to use the tools and features of the ArcGIS.com viewer you can refer to the HELP files and tutorials available. Go to the Help Pages at: <http://doc.arcgis.com/en/arcgis-online/>

To save a view or location for reference at a later time you will have to create your own account on ArcGIS.com to have a place to store the saved map. Many of the tutorial instructions assume you have an account. There are two types of accounts; Public (free) and Organization (subscription costs). The Sign In page as seen below provides a place to create and register an ArcGIS Online Public Account. These public accounts are limited for storage size and access to some tools but provide all you need to maintain a basic local web map that is visible to the public.

Sign In

Don't have an account?

Sign up for an ArcGIS subscription

An ArcGIS subscription allows you to set up an online mapping portal for your organization.

30-DAY FREE TRIAL

Not ready to subscribe?

Create an ArcGIS Public Account with limits on usage.

If you have an Esri Global Account, you can register it to create an ArcGIS Public Account.

REGISTER YOUR ESRI GLOBAL ACCOUNT

Don't have an Esri Global Account to register or are you a student?

CREATE A PUBLIC ACCOUNT

Username

Password

Keep me signed in

SIGN IN

[Forgot Username or Password?](#)