

“ALASKA DEC DRINKING WATER PROTECTION AREAS” PUBLIC WEB MAP

Basic Instructions for Map Viewer



Charley Palmer, Hydrologist

State of Alaska

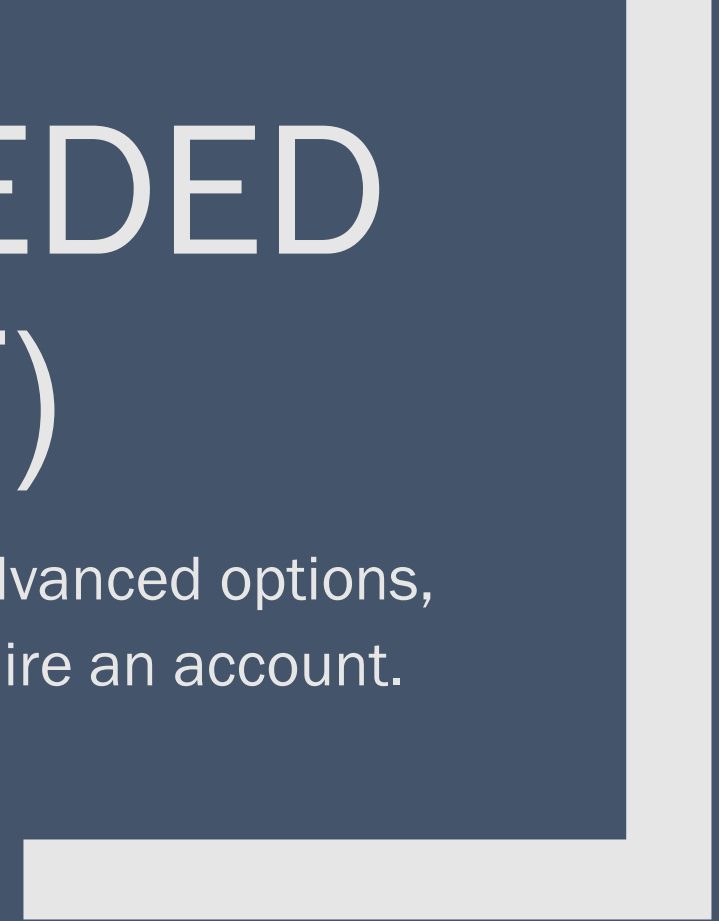
Department of Environmental Conservation (DEC)

Drinking Water Protection

907-269-0292 charley.palmer@alaska.gov

NO ACCOUNT NEEDED (LOGGED OFF)

The following options do not require an account. For advanced options, such as adding sketches, saving and sharing will require an account.





How to Open Web Map

Visit Alaska DEC Home

<https://dec.alaska.gov/>

- Click on “DEC Web Maps” button
- Or click on link to “Use DEC Online Services” → “Web Maps”

ONLINE SERVICES

Complaints

Report a suspected violation or crime.

Invoice Payments

Pay invoices online by check or credit card.

Public Records Request

Download the Alaska DEC Public Records Request Form (DOC)

Download the Alaska DEC Public Records Request Form (PDF)

Web Maps

View geographic data in maps online.

The screenshot shows the Alaska DEC website. At the top, there's a header with "THE GREAT STATE of ALASKA" and a greeting in Central Yup'ik. Below that is a navigation bar with links like "ABOUT US", "AIR QUALITY", "WATER", "ENVIRONMENTAL HEALTH", and "SPILL PREVENTION AND RESPONSE". The main content area features a large banner image of a mountain range. To the right of the banner is a search bar labeled "Search DEC". Below the banner, there's a section titled "Welcome to the Department of Environmental Conservation" with a description of the department's mission. To the right of this section is a vertical list of buttons: "DEC WEB MAPS", "ACTIVE SPILL RESPONSES", "RECALL ALERTS", "AIR QUALITY ADVISORIES", and "FOOD WORKER CARDS". The "DEC WEB MAPS" button is circled in yellow. Below the welcome section is a table with three columns. The first column lists various topics, the second column lists related resources, and the third column lists related services. The "Use DEC Online Services" link in the third column is circled in yellow. A yellow arrow points from the "Web Maps" section on the left to the "DEC WEB MAPS" button on the right.

How to Open Web Map (cont'd.)

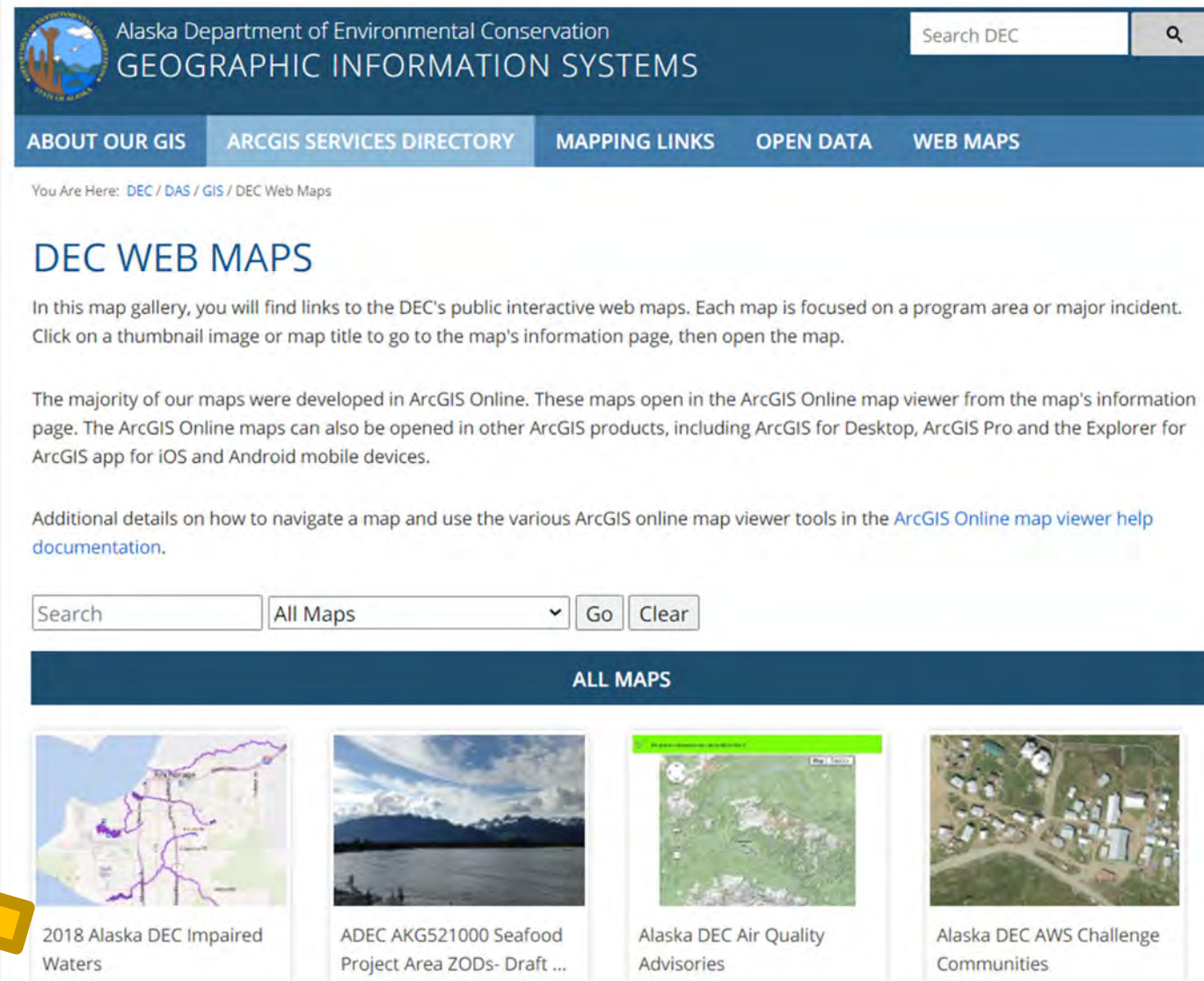
Scroll down to:

“Alaska DEC Drinking Water Protection Areas”

- Also includes map layers from other DEC Programs (i.e., DEC Contaminated Sites, Solid Waste, Wastewater, etc.)



12/6/2021



Alaska Department of Environmental Conservation
GEOGRAPHIC INFORMATION SYSTEMS

Search DEC

ABOUT OUR GIS ARCGIS SERVICES DIRECTORY MAPPING LINKS OPEN DATA WEB MAPS

You Are Here: [DEC](#) / [DAS](#) / [GIS](#) / DEC Web Maps

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.

The majority of our maps were developed in ArcGIS Online. These maps open in the ArcGIS Online map viewer from the map's information page. The ArcGIS Online maps can also be opened in other ArcGIS products, including ArcGIS for Desktop, ArcGIS Pro and the Explorer for ArcGIS app for iOS and Android mobile devices.

Additional details on how to navigate a map and use the various ArcGIS online map viewer tools in the [ArcGIS Online map viewer help documentation](#).

Search All Maps Go Clear

ALL MAPS

2018 Alaska DEC Impaired Waters

ADEC AKG521000 Seafood Project Area ZODs- Draft ...

Alaska DEC Air Quality Advisories

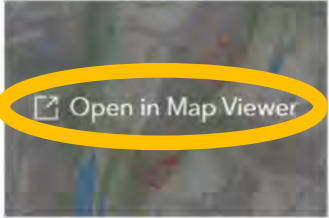
Alaska DEC AWS Challenge Communities



How to Open Web Map (cont'd.)

- **READ Description Page**
- Click “Open in map viewer”

Alaska DEC Drinking Water Protection Areas Overview

 This map displays Public (regulated) Drinking Water Protection Areas and well/intake locations for known active public water systems. The data is continuously being revised.

Web Map by [adecdwp](#)

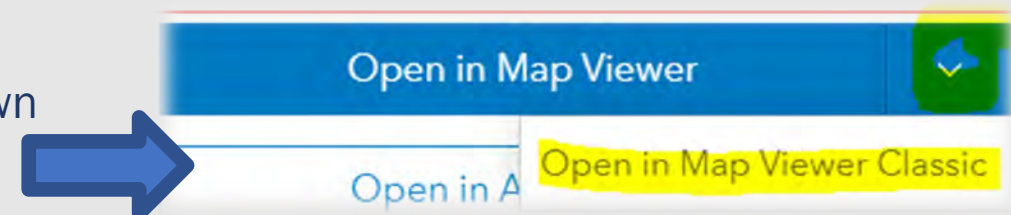
Created: Mar 21, 2012 Updated: Apr 27, 2021 View Count: 61,667

Description

[Open in Map Viewer](#) [Open in ArcGIS Desktop](#) [Open Presentation](#)

NEW Map Viewer as of April 2021

If you'd like to open using the old map viewer, click the drop-down arrow, and select “Open in Map Viewer Classic”

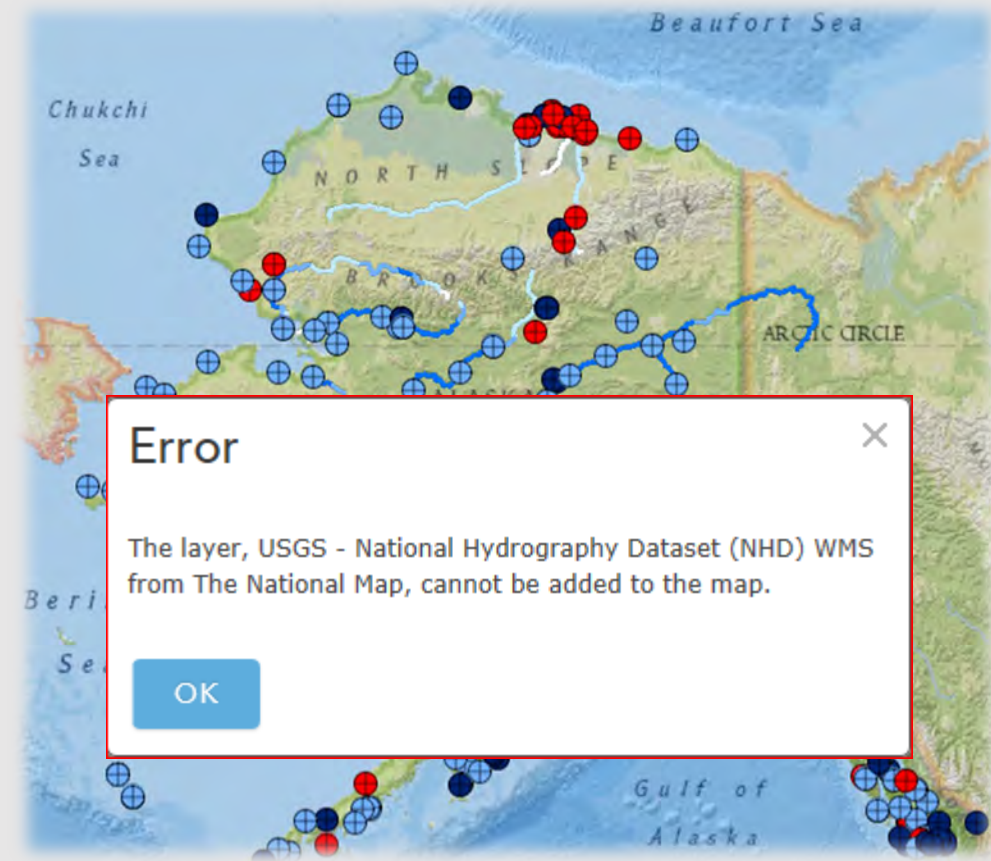




Web Map Errors

Error messages

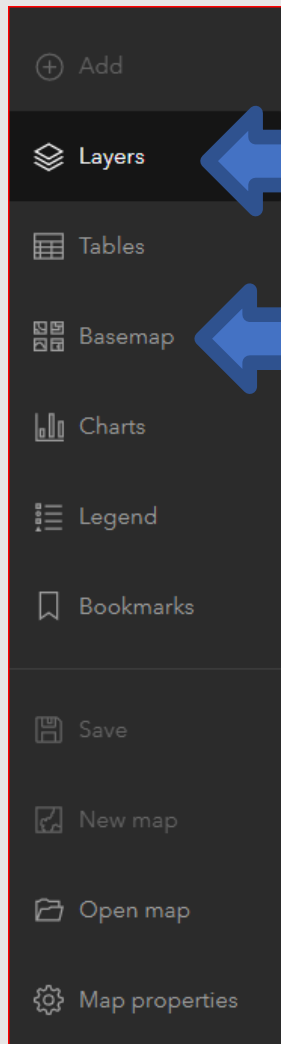
- This map uses data from various sources, some that we don't control.
- Some layers break occasionally, but usually only temporarily.
- If you receive an error message, click "OK".
- The map will still work, but that layer may be down temporarily.
- If it is a layer critical to your work, please let us know, and we can try to track down the issue.
 - *Contact(s):*
 - Charley Palmer, 907-269-0292, or at charley.palmer@alaska.gov
 - Chris Miller, 907-269-7549, or at chris.miller@alaska.gov
 - Kalah Statz, 907-269-7647, or at kalah.statz@alaska.gov



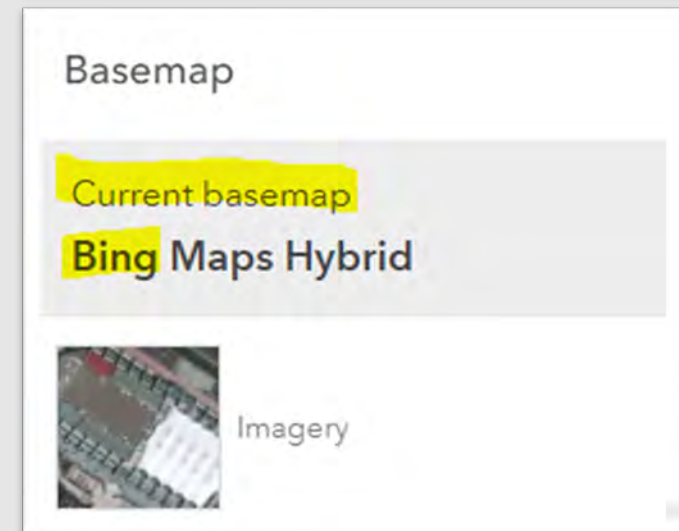
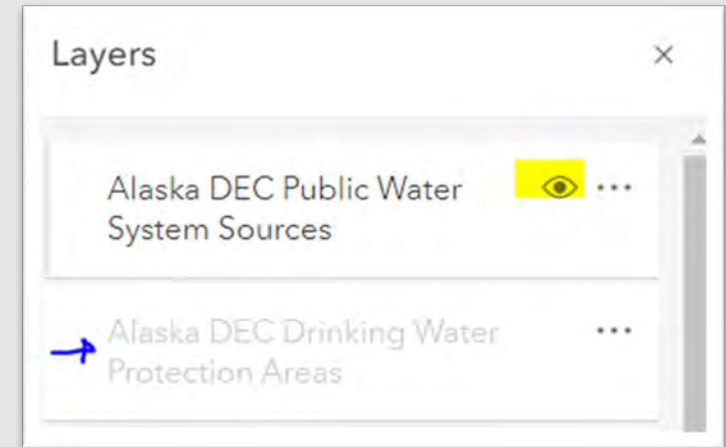


Map Options

Note: Some options are only available when signed in



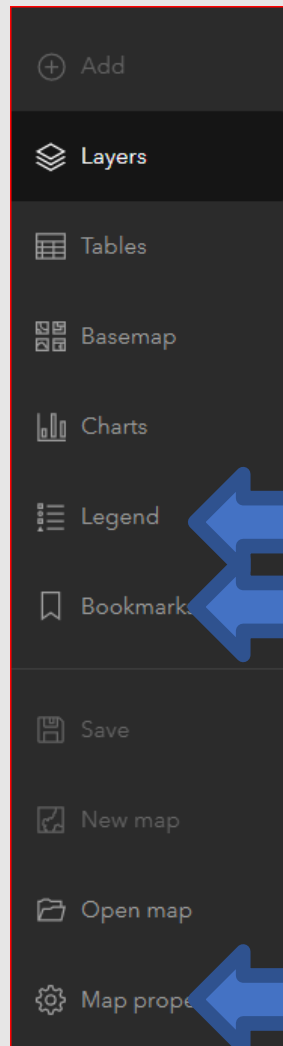
- **Layers:** List of map layers
 - Some layers may be invisible by default - layers can be made visible by clicking on the “eye” symbol.
 - Some layers are grayed-out because they’re scale-dependent and are only visible when zoomed to the right scale.
- **Basemap:** List of available basemaps
 - If you select something other than Bing, you will not be able to go back to Bing without reloading/refreshing the map.
 - Some maps are added as layers and may be drawing over the top of your selected basemap. If you select a basemap but don’t see it, it’s because it is underneath a map layer. Go back to “Layers” and turn off visibility for all map layers.





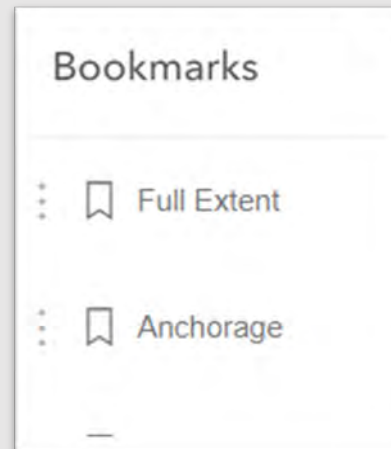
Map Options

Note: Some options are only available when signed in

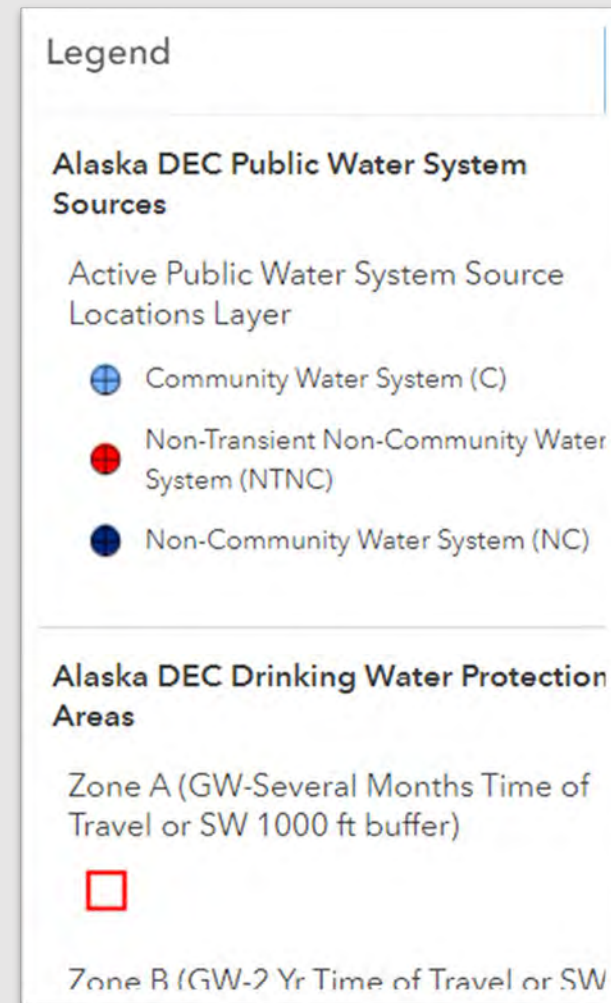


- **Legend:** Show this when printing/copying
 - *Contents are adaptive and show layers currently visible in the map*

- **Bookmarks:** List of preset locations to zoom in to

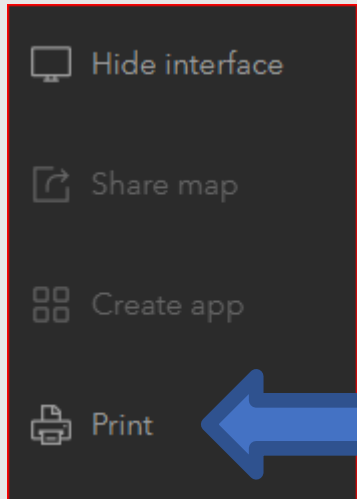


- **Map Properties:** Link to “Item Details”, to go back to map item description page



Map Options

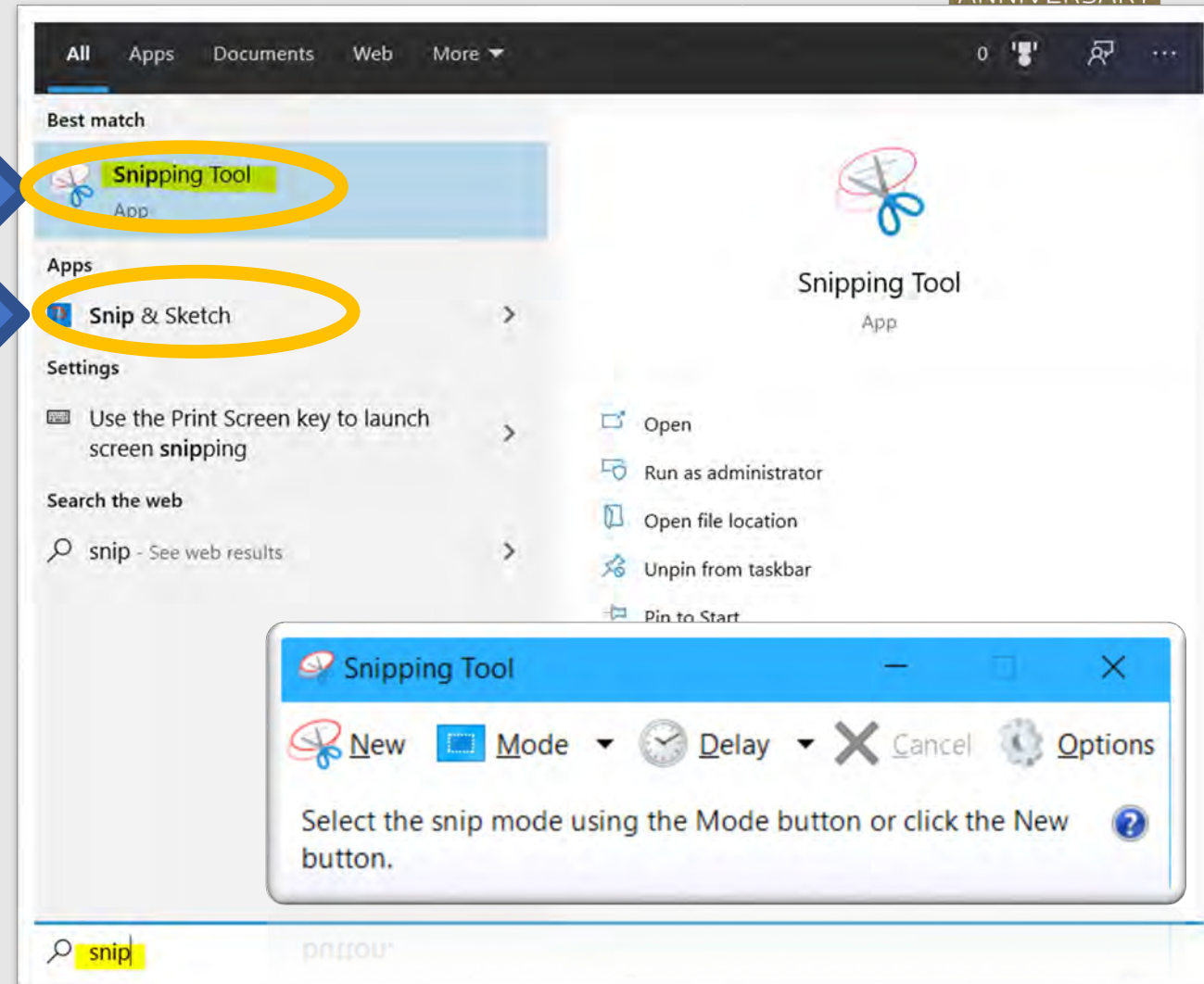
Note: Some options are only available when signed in



■ **Print:** To print map as-is, but limited labeling

■ **Preferred** print method:

- Click on Windows button, search “snip”
- Open MS Windows “Snipping Tool”, or “Snip & Sketch” tool
- Copy/paste to editing application (ex. MS PowerPoint)
- Add labels, symbols, notes, etc.



Map Layers (cont'd.)

Layers

Alaska DEC Public Water
System Sources

Alaska DEC Drinking Water
Protection Areas

Alaska DEC Public Water
System Source Minimum
Required Separation
Distances

Alaska DEC Contaminated
Sites

Alaska DEC Wastewater
Mixing Zones

Alaska DEC Seafood
Processing Facilities

Alaska DEC Solid Waste
Sites

■ DEC Drinking Water (Public Water System (PWS))

- *PWS sources*
- *Drinking Water Protection Areas*
- *PWS Separation Distances*

■ Other DEC data permits, facilities, sites, etc.

- ### ■ DNR data
- *Water Rights*
 - *Well Logs*

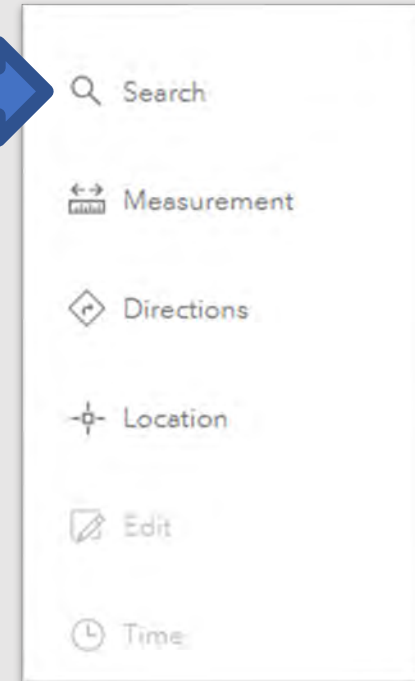
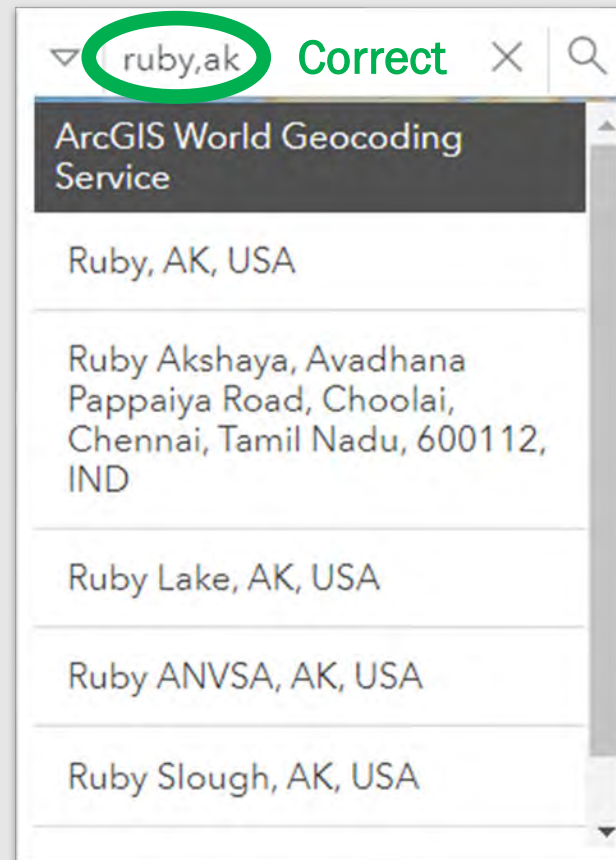
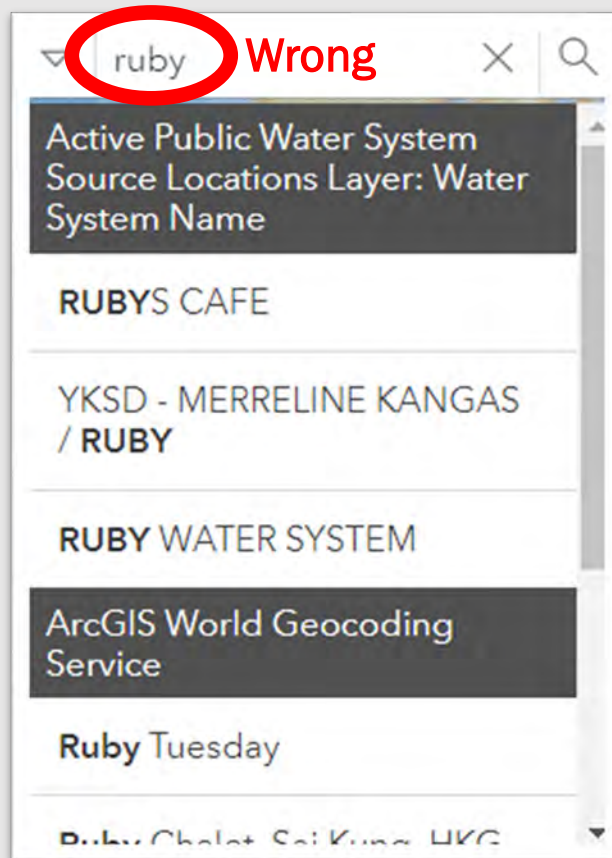
■ Can add/remove additional layers (advanced)





Searching Map: By city/address

- **Important:** Include “AK” in search (searches entire globe)





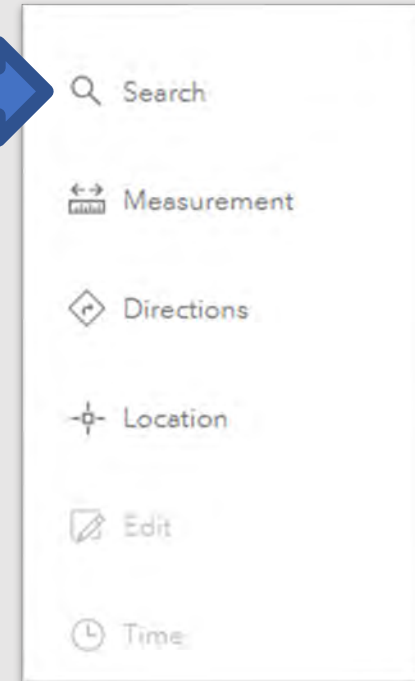
Searching Map: By GPS data

64.737745 -155.486

- Decimal-degrees format (DD):
 - Example: Ruby, AK = 64.737745 (latitude), -155.486953 (longitude)
 - **Important:** remember negative-sign for longitude value
 - Except west of the International Dateline (180 longitude, west of Adak)
- Other formats may also work, but may need to be entered a certain way
 - Conversion tools are available online
 - Example: For converting DMS → DD
 - see <https://www.fcc.gov/media/radio/dms-decimal>

- ❖ Decimal-degree-minutes (DDM)
- ❖ Degrees-minutes-seconds (DMS)
- ❖ Longitude Latitude (XY) (Reverse order)
- ❖ Military Grid reference System (MGRS)
- ❖ United States National Grid (USNG)
- ❖ Universal Transverse Mercator (UTM)

DD
DD
BASEMAP
DDM
DMS
XY
MGRS
USNG
UTM





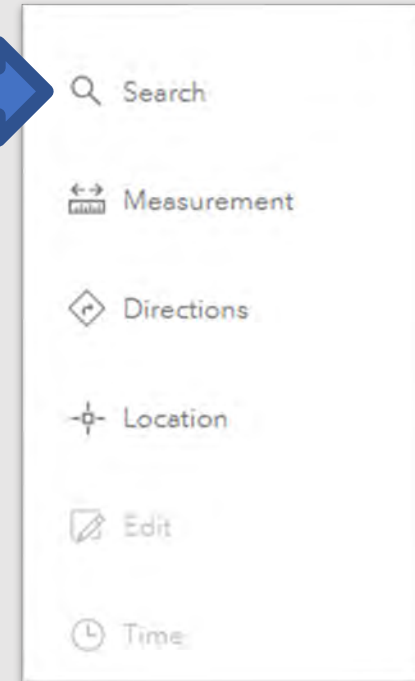
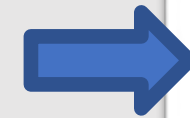
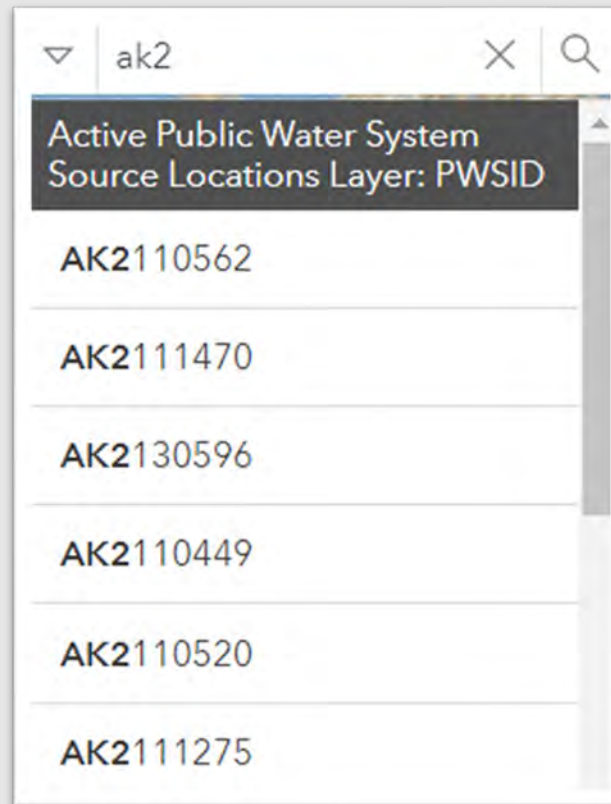
Searching Map: PWSID

- Searching: By PWSID (e.g., AK2250011)
 - “AK2” + 6-digit PWSID

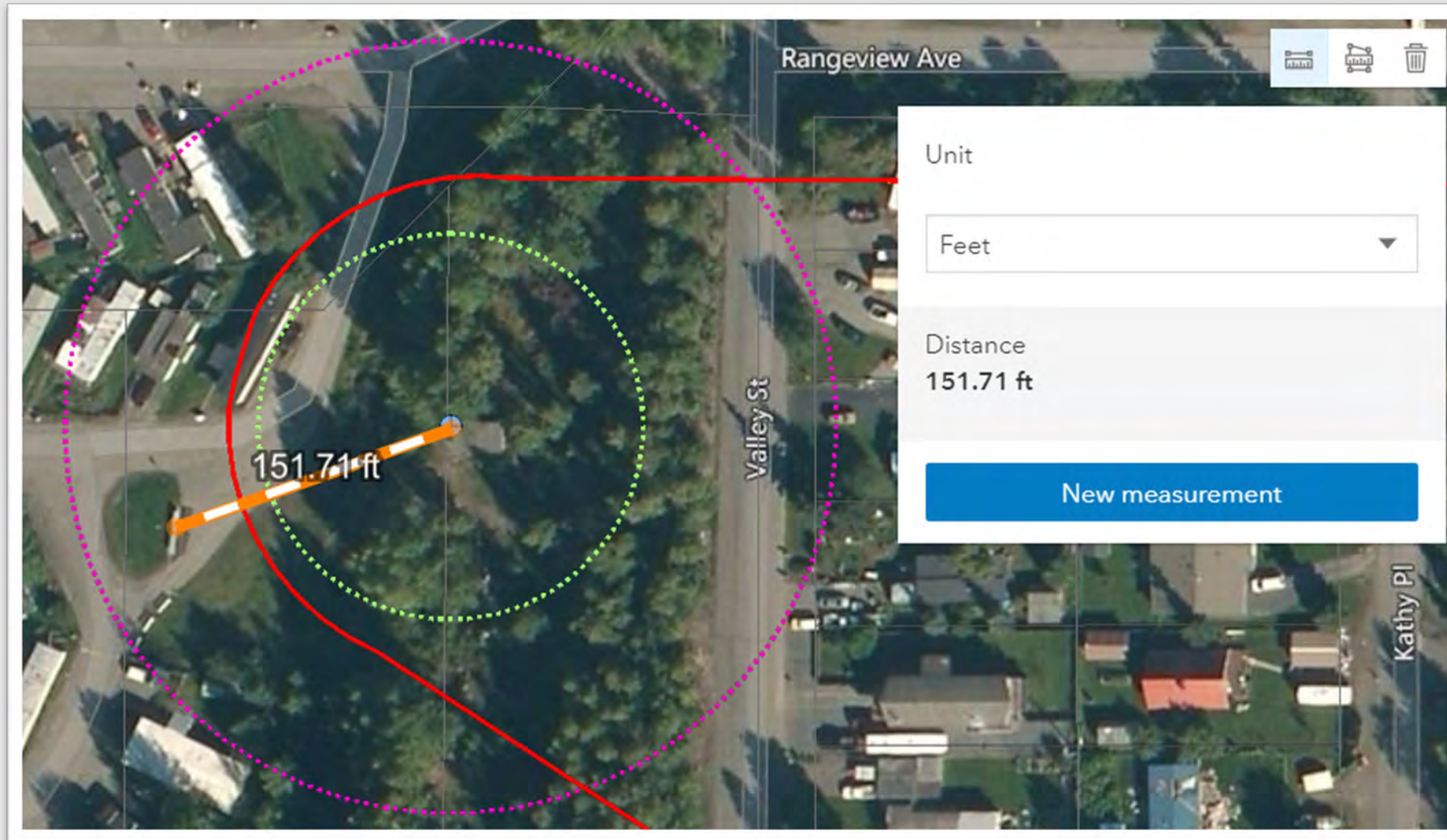
AK2250011
└──┬──┬──┬──┬──┬──┬──┘
AK2 PWSID

Note: The “AK2” prefix is the same for all public water systems in Alaska. The 6-digit suffix is unique.

However, it is **important** when searching for a PWSID to include the “AK2” prefix.



Measuring





Get Location

DD 149.725949 61.214591

DD
BASEMAP
DDM
DMS
XY
MGRS
USNG
UTM

DD 149.724752 61.214816

Add conversion ▼

✎ 📍 ⚙️

Input coordinate

Capture mode

← Input coordinate

DD Input coordinate

☐ Go to location

Convert

DD 149.719873 61.215411

Add conversion ▼

✎ 📍 ⚙️

- Can choose different coordinate systems
- Float mouse cursor over the map to see the coordinate at any location
- Input coordinate (GPS data) to zoom to a specific location, or
- Use capture mode to click on the map and get the coordinate at a specific location

🔍 Search

↔️ Measurement

📍 Directions

📍 Location

✎ Edit

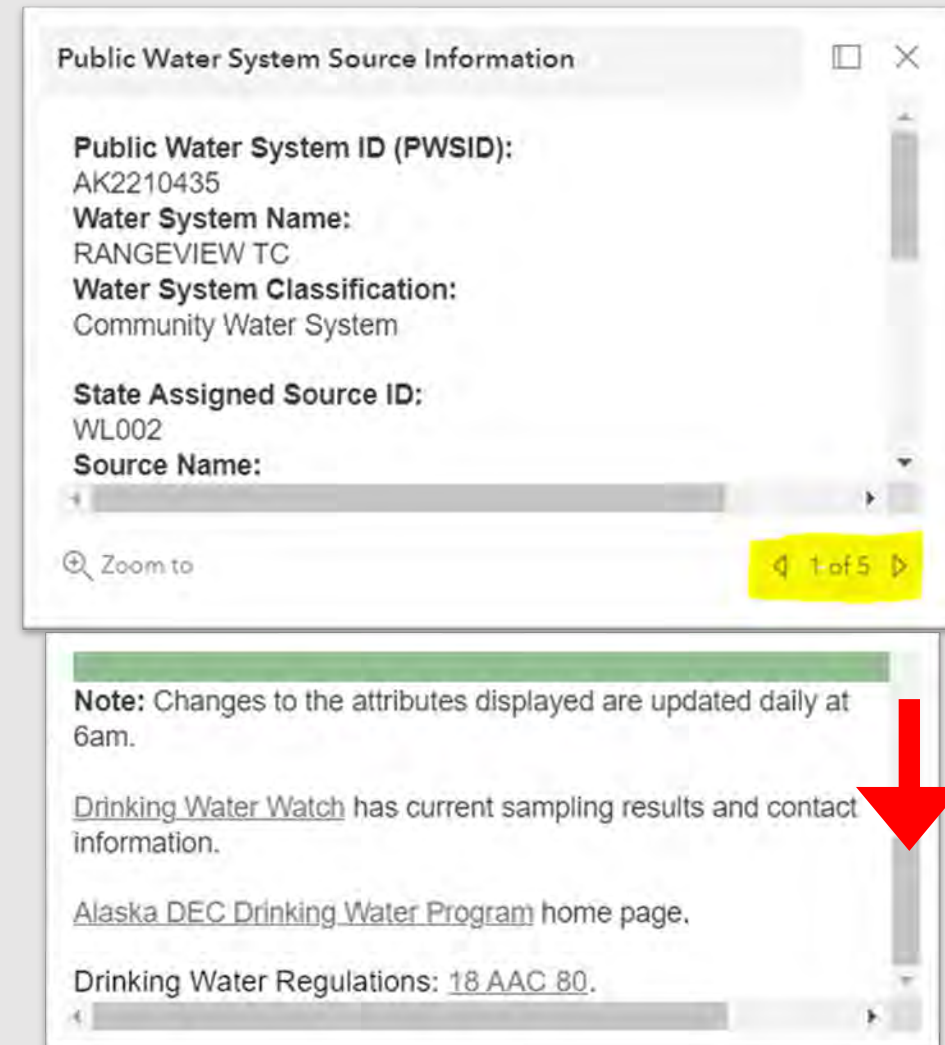


Pop-Ups

- Use page-through arrow for multiple pop-ups
 - *Example. (1 of 3) means there are 3 pop-ups at the point that was clicked.*
- Scroll down (or expand) to see more pop-up info

PWS info

- Key at bottom of pop-up (where applicable)
- This map only shows active PWS
- Link to Drinking Water Watch (DWW)
 - *For more detailed PWS info, such as contact info and water quality results*
 - *Can also directly access DWW*
 - <https://dec.alaska.gov/DWW/>



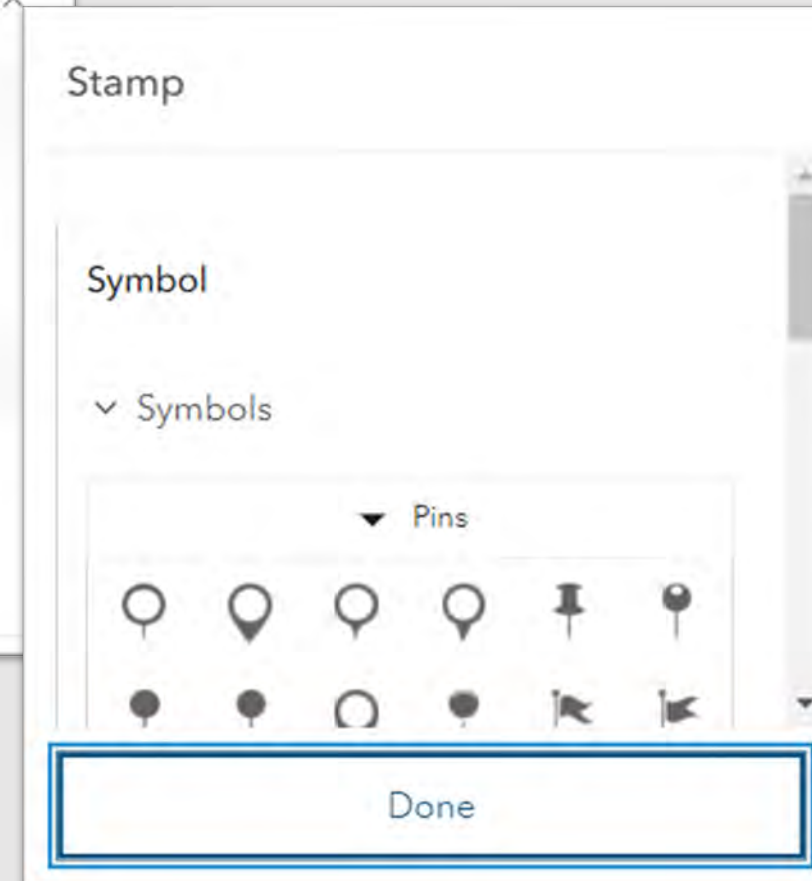
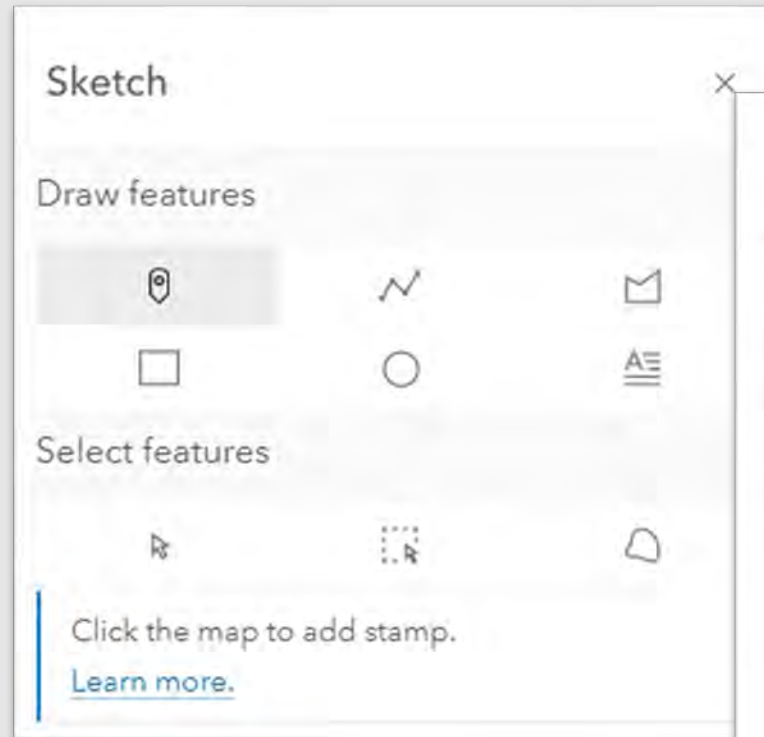
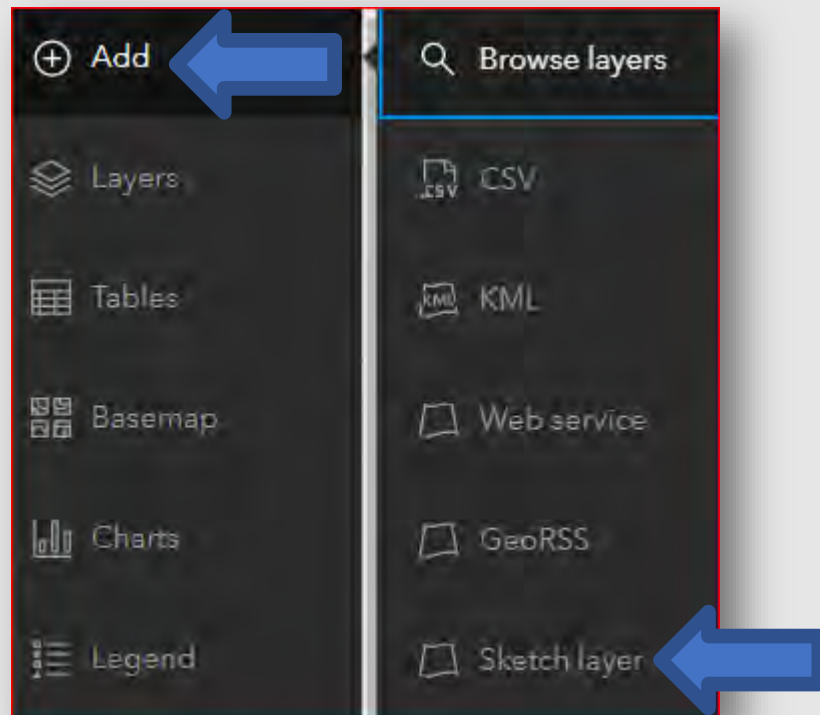
ACCOUNT REQUIRED (LOGGED ON)

The following options require an account.



Adding Sketch Layers

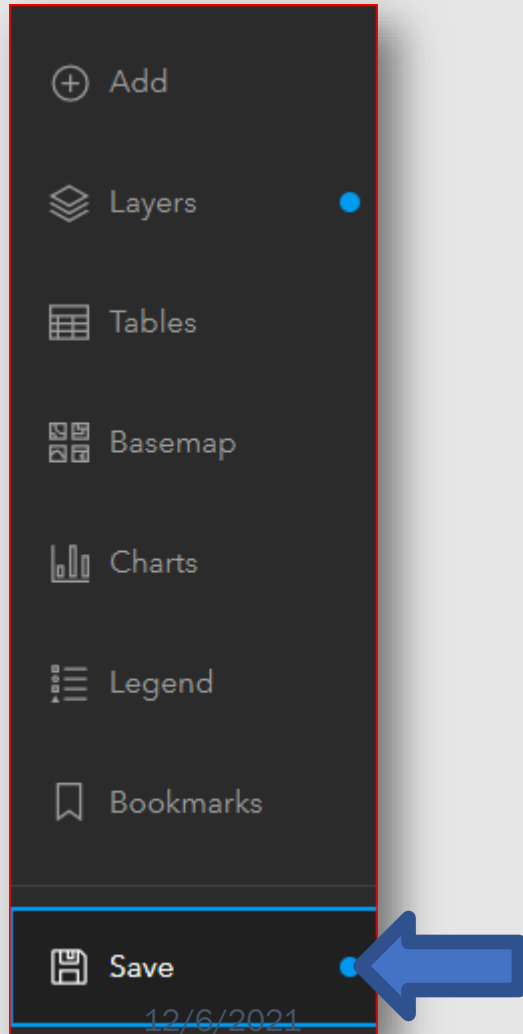
First, sign-in to your account (may need to create one)





Saving a local copy of the map

First, sign-in to your account (may need to create one)



×

Save map

Title

My local map

Tags

ADEC × EH × Drinking Water × Safe Drinking Water × Protection Areas × Source Water Protection × Add tag(s)

Summary

This map is s local version only. To view the authoritative version, please see <https://dec.alaska.gov/das/gis/apps/>.

Save in folder

Personal

Cancel Save map

CAUTION:

This will save a local version of the map in your account. **If changes are made to the authoritative DEC map, those changes will not be applied to your local map.**

It is advisable that you only do this temporarily and to always start with the authoritative map for new projects.

The authoritative map can be found at <https://dec.alaska.gov/das/gis/apps/>.

ADVANCED MAP SKILLS

The following options are for advanced map users that may require access to additional software and technical skills.



Map Services

- ArcGIS Services Directory (<https://dec.alaska.gov/arcgis/rest/services/>)
 - Can view services as map layers in ArcGIS, Google Earth, etc.

THE GREAT STATE of ALASKA

Etla, s'coy
(Doogh Qinaq) "Hello, my grandchild" myA

ArcGIS REST Services Directory

Home > [services](#)

Folder: /

Current Version: 10.31

View Footprints In: [ArcGIS Online](#)

Folders:

- [Air](#)
- [EH](#)
- [SPAR](#)
- [Utilities](#)
- [Water](#)

Services:

- [SampleWorldCities](#) (MapServer)

Supported Interfaces: [REST](#) [SOAP](#)

DEC WEB MAPS

In this map gallery, you will find links to the DEC's public information maps. Click on a thumbnail image or map title to go to the map's page.

The majority of our maps were developed in ArcGIS Online. The ArcGIS Online maps can also be opened in other ArcGIS app for iOS and Android mobile devices.

Additional details on how to navigate a map and use the map's documentation.

Search 12/6/2021 All Maps Go Clear

ArcGIS REST Services Directory

Home > [services](#) > [EH](#)

[JSON](#) | [SOAP](#)

Folder: EH

Current Version: 10.31

View Footprints In: [ArcGIS Online map viewer](#)

Services:

- [EH/Boil Water Notice](#) (MapServer)
- [EH/Drinking Water Protection Areas](#) (MapServer)
- [EH/DWP Office Locations](#) (MapServer)
- [EH/DWP Regions](#) (MapServer)
- [EH/Fish Tissue Sample Sites](#) (MapServer)
- [EH/Fishing Areas](#) (MapServer)
- [EH/Fishing Regions](#) (MapServer)
- [EH/JTMD Aerial Surveys](#) (MapServer)
- [EH/JTMD Cleanup Projects](#) (MapServer)
- [EH/Maximum Nitrate Levels](#) (MapServer)
- [EH/Salmon by Site](#) (MapServer)
- [EH/SDWIS Facilities](#) (MapServer)
- [EH/Solid Waste Sites](#) (MapServer)
- [EH/WEAR Site Erosion](#) (MapServer)
- [EH/WEAR Sites](#) (MapServer)

ArcGIS REST Services Directory

Home > [services](#) > [EH](#) > [SDWIS Facilities \(MapServer\)](#)

[JSON](#) | [SOAP](#)

EH/SDWIS_Facilities (MapServer)

View Footprints In: [ArcGIS JavaScript](#) [ArcGIS Online map viewer](#) [Google Earth](#) [ArcMap](#)

View Footprint In: [ArcGIS Online map viewer](#)

Service Description: Data displays Alaska's active public water system (PWS) sources of Environmental Conservation's (ADEC) Safe Drinking Water Information Systems (SDWIS).

Supported Interfaces: [REST](#) [SOAP](#) [Sitemap](#) [Geo Sitemap](#)



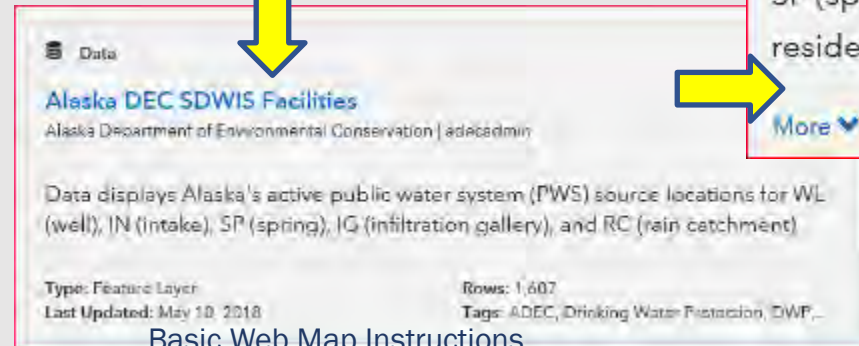
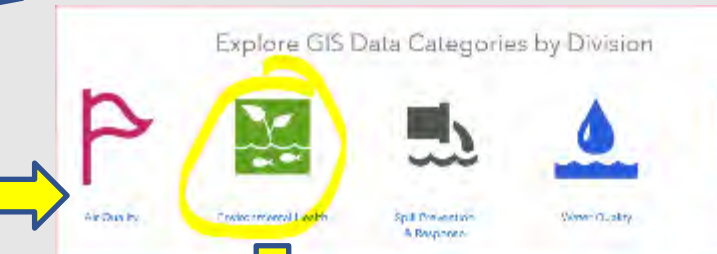
Open Data

- Open Data Site (<https://data-soa-adec.opendata.arcgis.com/>)



12/6/2021

Scroll down



Basic Web Map Instructions

