“ALASKA DEC DRINKING WATER PROTECTION AREAS”
PUBLIC WEB MAP
Basic Instructions for Map Viewer

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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”
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.)

Web maps: https://dec.alaska.gov/das/gis/apps/
How to Open Web Map (cont’d.)

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

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 maps: https://dec.alaska.gov/das/gis/apps/
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

**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

Web maps: [https://dec.alaska.gov/das/gis/apps/](https://dec.alaska.gov/das/gis/apps/)
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.

Web maps: https://dec.alaska.gov/das/gis/apps/
Map Layers (cont’d.)

- 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)

Web maps: https://dec.alaska.gov/das/gis/apps/
Searching Map: By city/address

- **Important**: Include “AK” in search (searches entire globe)
Searching Map: By GPS data

- 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)
Searching Map: PWSID

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

AK2250011

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

Web maps: [https://dec.alaska.gov/das/gis/apps/](https://dec.alaska.gov/das/gis/apps/)
Get Location

- 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

Web maps: https://dec.alaska.gov/das/gis/apps/
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)

Web maps: https://dec.alaska.gov/das/gis/apps/
Saving a local copy of the map

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

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.

Web maps: https://dec.alaska.gov/das/gis/apps/
Open Data


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Web maps: [https://dec.alaska.gov/das/gis/apps/](https://dec.alaska.gov/das/gis/apps/)