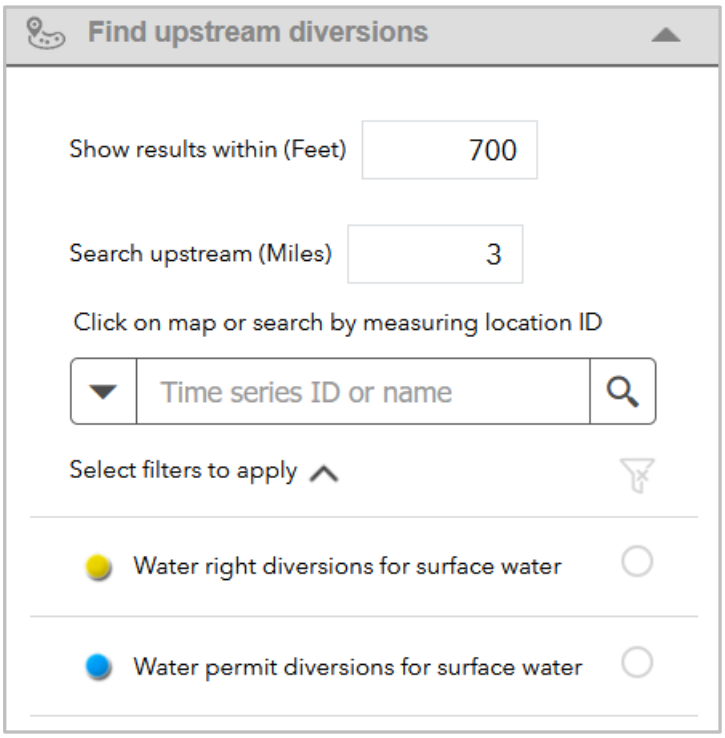
Find Upstream Diversions Widget

This tool allows a user to search for diversions near to, and upstream from, a point on the map. That point can be selected by clicking on the map or by entering the name or ID of a site in one of IDWR's time-series datasets. If the widget is not already open, click the *Find upstream diversions* widget icon to open it.

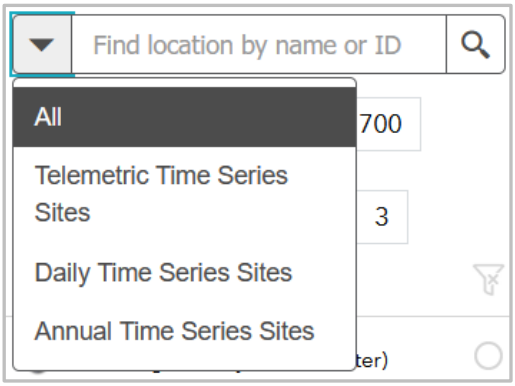
Initial Settings



The widget's user interface is initially set with reasonable search distances. **No filters set**. In order to include only surface water rights in the results, the filters must be set.

Measuring locations can be selected from one of three time-series datasets:

Search by measuring location type



Explanation of Settings

Show results within — the distance, perpendicular to the center-line of stream (on each side) to trace. This "buffer" distance is necessary because some rights and permits are located close to but not on the stream. *Note that if the filters are not set, this buffer will return groundwater diversions (wells) as well as surface water diversions.*

Search upstream — how far upstream to trace, in miles. This can include a decimal, e.g. 2.5

Search by measuring location ID — define the point where the search begins by clicking on the map or entering a name or ID that is a key to one of the time-series layers shown in the drop-down list.

Select filters to apply — by default these do not display a check-mark, which means that diversions for all upstream water right and permit diversions, <u>including groundwater</u>, will be returned.
Search for only surface water diversion – Click the radio buttons to show them as checked to turn these filters "on"; then only diversions from surface water will be returned.
Search for surface water and groundwater diversions – Click the *Clear all filters* icon.
Note: The search runs each time the filter settings change.

Searching for Upstream Diversions

Important! Before defining the point where the search begins, set the distance from the stream and the length along the stream to trace. Also, set the filter radio buttons "on" if you wish to restrict the results to only surface water diversions.

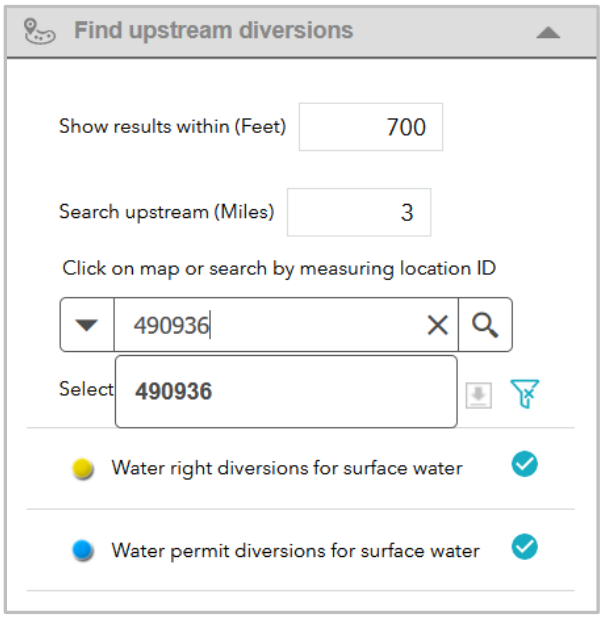
Define the point where the search begins by one of the following options:

1. Click the desired point on the map.
2. Enter the name or ID of a site for one of the time-series datasets shown in the ***Search by type of data*** example, below. Click the search icon (magnifying glass).

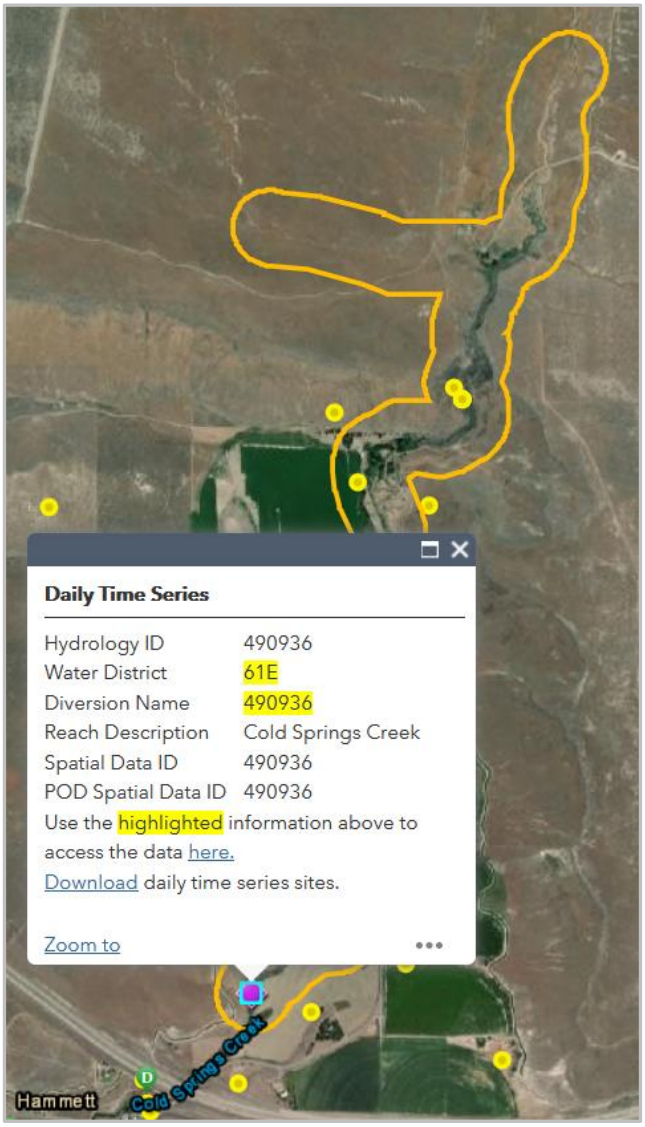
Viewing Results

In this example, the search will be initiated by selecting *Daily Time Series Sites* from the list of measuring location types and then entering 490936. For daily data, that number represents a record ID and may represent the diversion name.

The filters are set so that only surface water diversions will be returned.



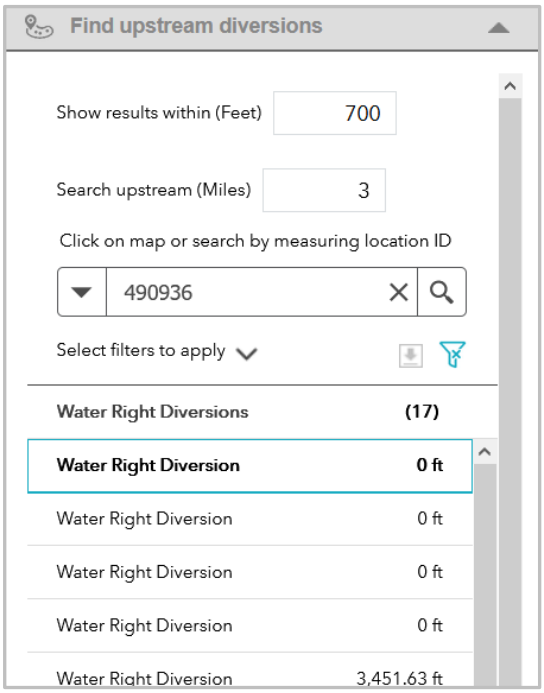
Click the search icon – the "magnifying glass" – to start the search for diversions. If the measuring location is found, a pop-up dialog will show point to its location and display details about that location. Starting the search by clicking on the map does not show a pop-up dialog.



The symbol representing the search location, shown in the example image, is drawn on top of the symbol that marks the location of four water right diversions – those marked as "0 ft" from the search results shown below. Click the "X" icon, at the upper-right corner of the pop-up dialog to close it.

Results from a Single Diversion Type

Given the defined buffer-width and distance-to-search-upstream, the search for surface water diversions for daily time series site 490936 found 17 water right diversions and no water permit diversions.



When results are found for only type of diversion, either water rights or permits, the table for those results is immediately displayed. **Note** that this table temporarily takes the place of the filter settings but the filter icon is displayed in a bright color (instead of gray) indicating that filters are applied.

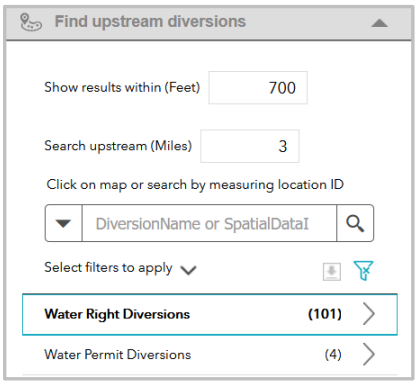
Results Table

The table-header shows how many diversions were found. The results, one feature per row, show the distance between the search-point and the found feature, in feet.

Click on a feature to see details about that diversion. See Display Details for a Feature.

Results from Both Diversion Types

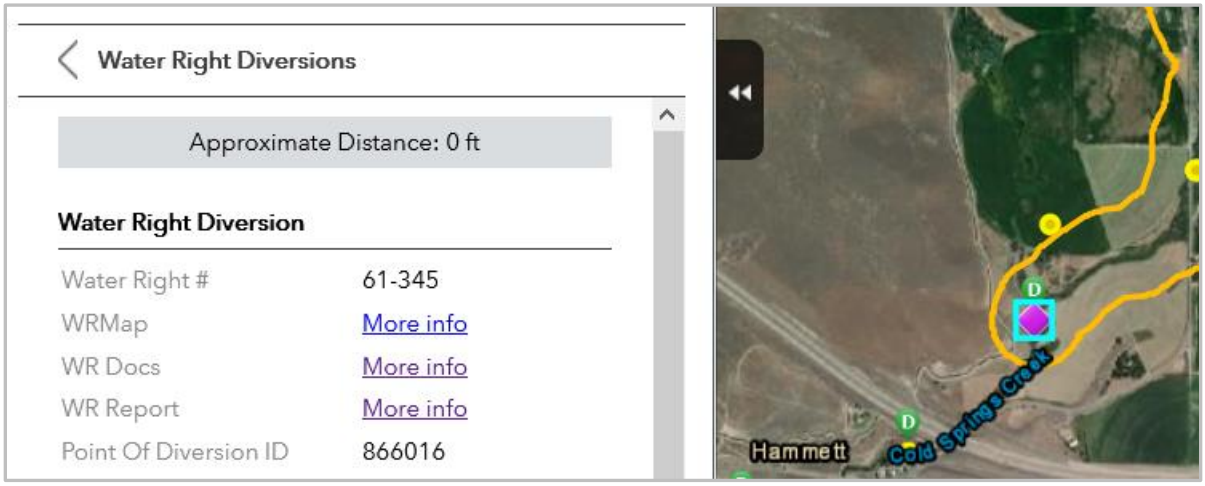
If diversions were found in more than one layer, a heading is shown for each layer. Click on a header to display a table containing the list of features for that layer.



Once the table is displayed, the actions are the same as described above.

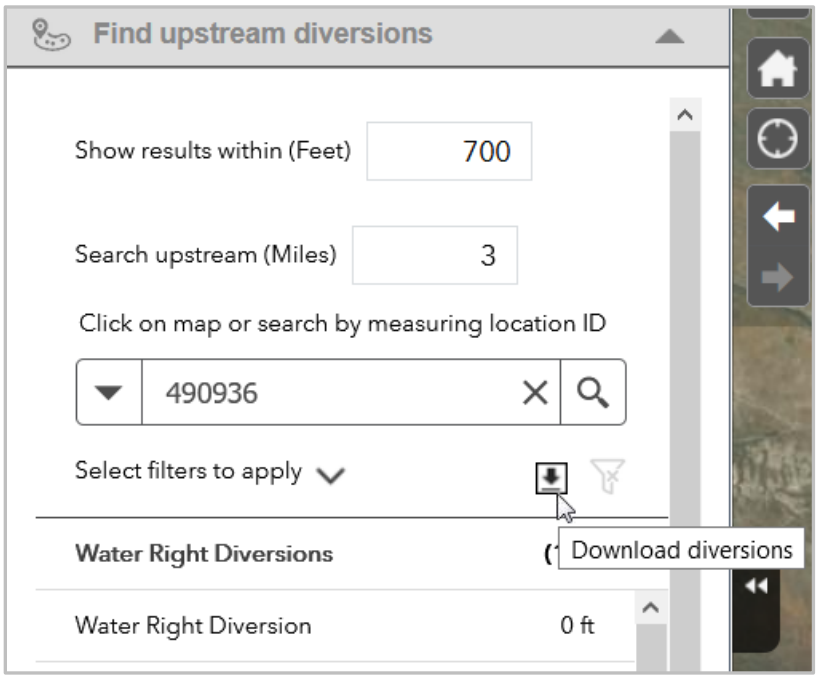
Display Details for a Feature

Click on a feature to see details about that diversion. The diversion-site is highlighted on the map and the details show an example of what can be downloaded. The distance from the measuring location is displayed but is not available for download. Click the header to return to the results summary table.



Downloading Results

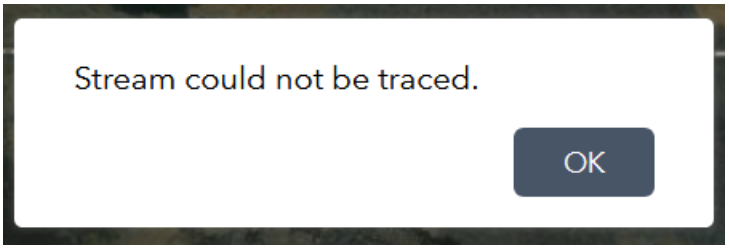
Click the **Download diversions** button to download all found features in one or more CSV-formatted files. If result were found for rights and permits, each CSV-formatted file will be offered as a separate download. It may take several seconds for each file to be prepared.

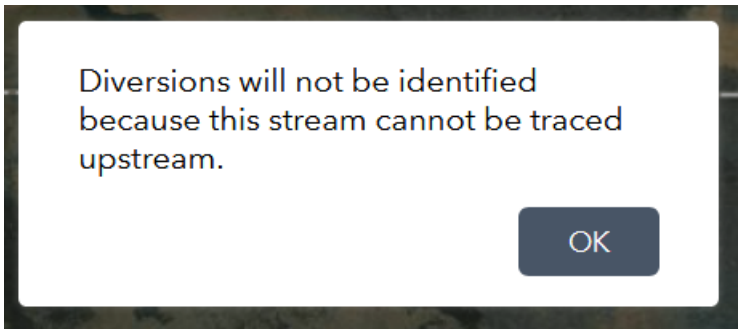


Error Messages

Error messages indicate a problem with the search-settings or the chosen location. Some of these will be unavoidable due to the structure of the National Hydrography Dataset, the hydrologic network on which the stream-tracing is based.

The stream could not be traced for an unknown reason.





The stream-network does not allow tracing this stream. Set the search-location to a different starting point.

Set the "Show results within (Feet)" parameter to something greater to 700 and then retry the search.