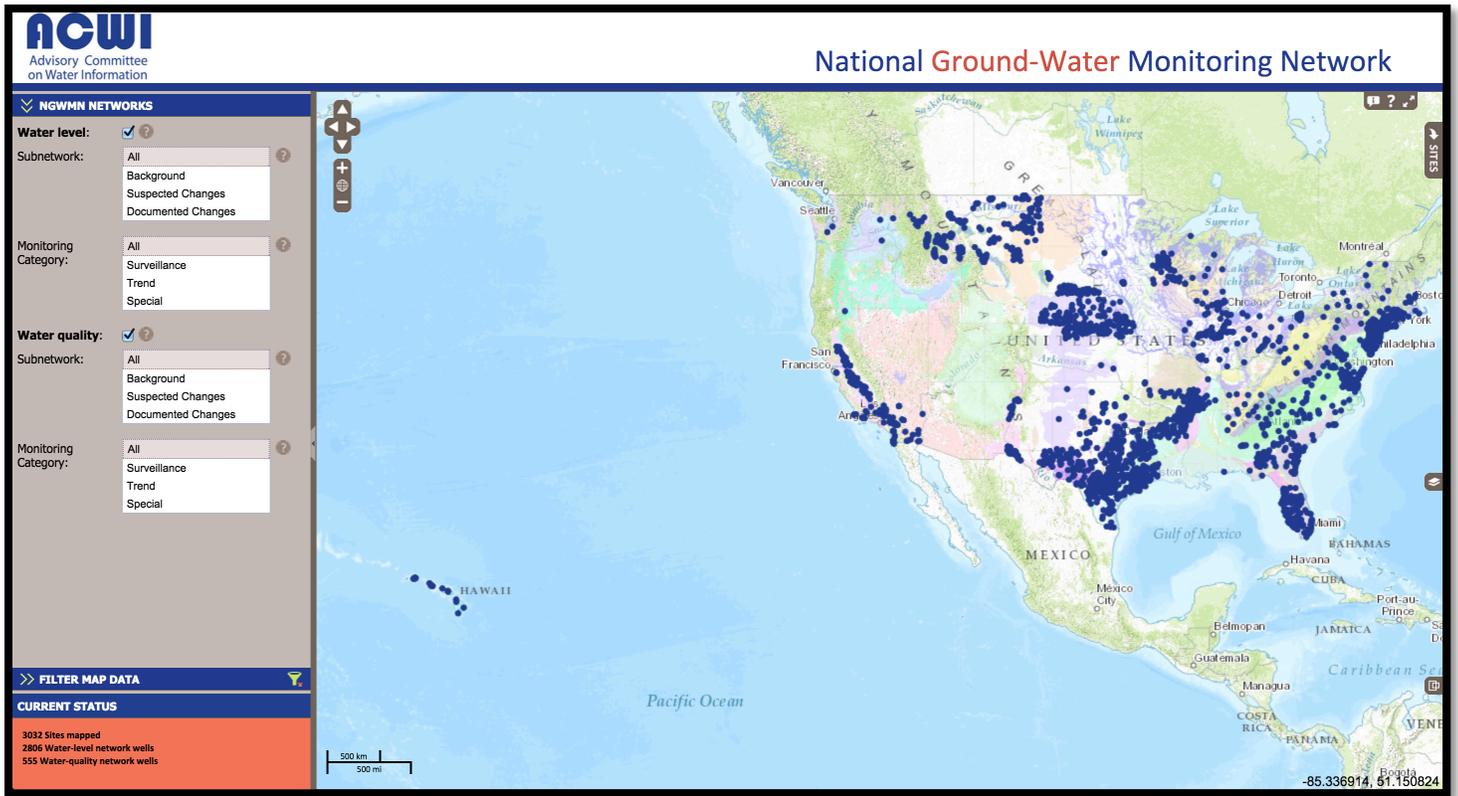


# How to use the NGWMN Data Portal:



The NGWMN Data Portal screen has two main sections: the selector bar on the left, and the map. The selector bar is used to select specific sites by network or attribute, useful when you are looking for specific kinds of data; the map is used to select sites by location and to preview and download data. The selector bar and the map are linked; the sites displayed on the map are those included in the current selection from the selection bar.

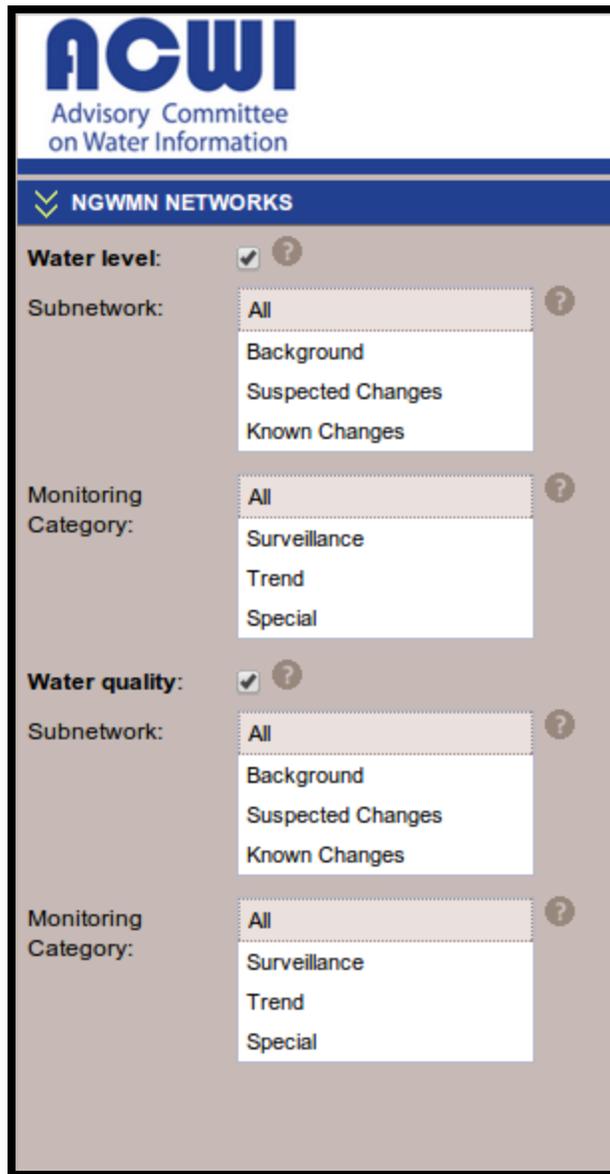
The map supports gestures: drag to move, mouse wheel to zoom, click to select and identify a site. You can also shift-drag to create a zoom box in an area of interest, control-click to directly select a site for data download, and control-drag to select several sites for data download (option-click and option-drag respectively for a mac). The map also has a variety of tools attached to the edges, for map control and data download. Clicking on the title of the page will take you back to the home page.

# Map Tools



## Selector Bar

The selector bar has three main sections: the Network selector, the Filter selector, and the Current View display. Changes made in the selector bar will automatically be reflected in the map display.



## Network Selector

The network selector lets you focus on the network(s) and sub-networks appropriate to your data needs. The 'Water level' and 'Water quality' check boxes are inclusive; by default, both are checked, so that sites in either or both networks are displayed. You can refine your selection to a subset of the available sites by using the sub-network selectors, labeled 'Subnetwork' and 'Monitoring category'.

A complete explanation of the meaning and purpose of the networks and sub-networks can be found on the NGWMN informational page. The informational page can be reached from the 'Learn' button on the home page. You may click on the title, 'National Ground-Water Monitoring Network', to get there. You may also find more information about the options by clicking on the '?' buttons within the selector bar.

The 'Current View' displays the number of wells in each of the networks currently displayed on the map.

## Filter Selector

The filter selector allows you to restrict the site selection according to Principal Aquifer, data availability, State and County, and contributing agency. Each section of the Filter selector has a help pop-up explaining how it may be used. The filter reset button can be used to clear all filters, allowing all sites (in the chosen networks) to display.



Within each of these filter sections you may select more than one option in a list by control-click or select several in a row by holding shift-click. The ‘Available Data’ options are additive as they allow you to find sites with one or more types of data available (e.g. sites with water level data and a well log record).

### Site Identify Window

If you click on a region of the map that has multiple sites in close proximity, you will see a window that lets you select one particular site from the proximate sites:

10 sites were identified nearby. Select one...			
Agency	Site No	Site Name	Principal Aquifer
TWDB	5812603	TWDB-5812603	Edwards-Trinity aquifer sys...
TWDB	4041202	TWDB-4041202	Edwards-Trinity aquifer sys...
TWDB	4063501	TWDB-4063501	Edwards-Trinity aquifer sys...
TWDB	4053406	TWDB-4053406	Edwards-Trinity aquifer sys...
TWDB	5805403	TWDB-5805403	Edwards-Trinity aquifer sys...

[SELECT ALL FOR DOWNLOAD](#)

You can identify a single site from this list with a double-click of the mouse, which will display the same window you see if you click on an isolated site on the map:

**GRANT 10 (GT 10)**

**SUMMARY** WELL LOG WATER LEVELS WATER QUALITY

Agency	U.S. Geological Survey
Site Name	GRANT 10 (GT 10)
Site #	403836085374401
Site Type	WELL
Lat/Long(WGS84)	40.6434, -85.6289
Well Depth	198.02 ft
Local Aquifer Name	Pleistocene Series
National Aquifer Name	Sand and gravel aquifers (glaciated regions)
Aquifer Type	-
Water Level Network	Trend - Documented Changes
Water Quality Network	Unknown - Unknown
Additional info	<a href="#">link</a>

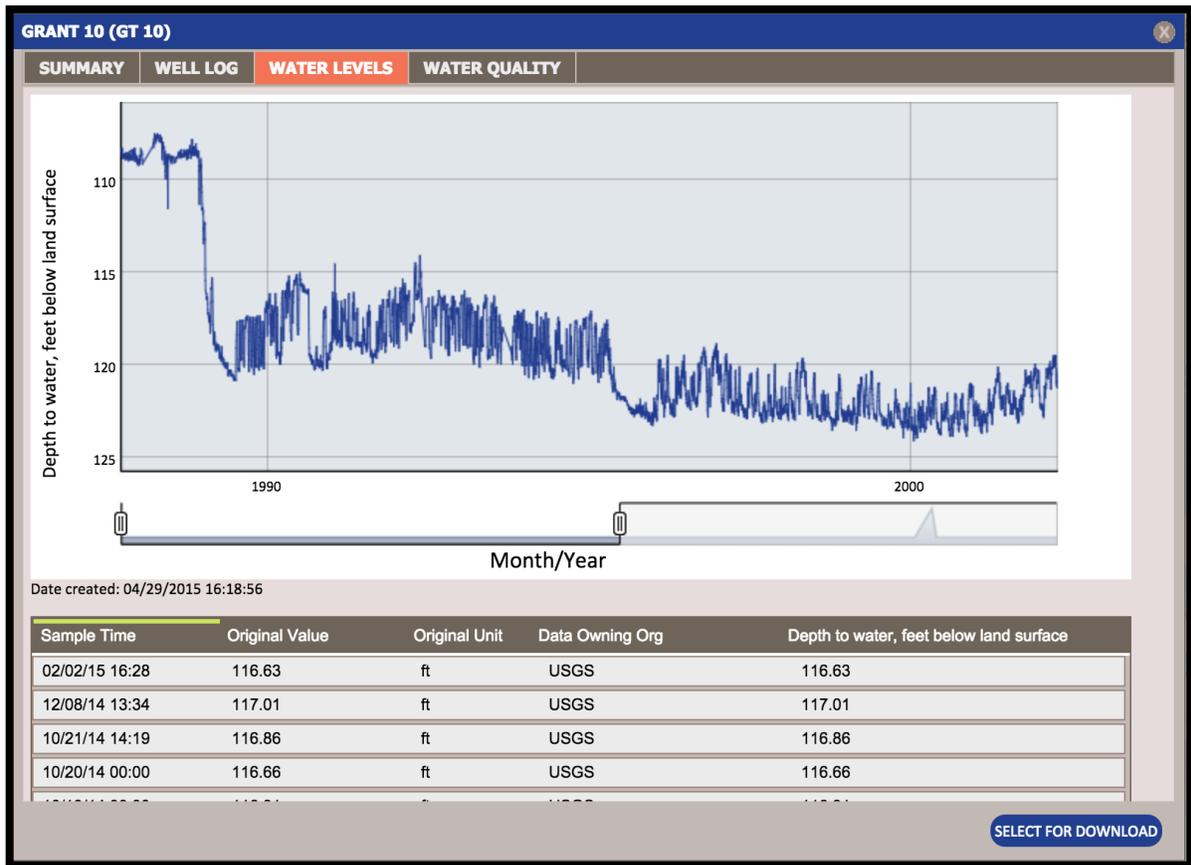


**INDIANA DEPARTMENT OF NATURAL RESOURCES**

**SELECT FOR DOWNLOAD**

This ‘Site Identify Window’ has a tab for each kind of data available for the site: ‘Summary’, ‘Well Log’ (depth, geographic location, and casing and lithology information when available), ‘Water Levels’, and ‘Water Quality’. Not all sites have all information available, so not all tabs will be available for all sites.

The ‘Water Level’ tab shows both a graph and a table of the water level observations for the selected site. The water level graph has a pane below it that shows an overview of the time series. You can use the sliders at either end to zoom into a time period of choosing. The ‘Water Quality’ tab shows a table of the water quality sample analyses for the site.



Both of these windows allow you to add sites to your 'Site Selection' for download.

## Data Download Control

The 'Site Selection' list, which slides out from the right side of the map, gives you the ability to control which sites you'd like to download NGWMN data for your selected sites.

**Site Selection**

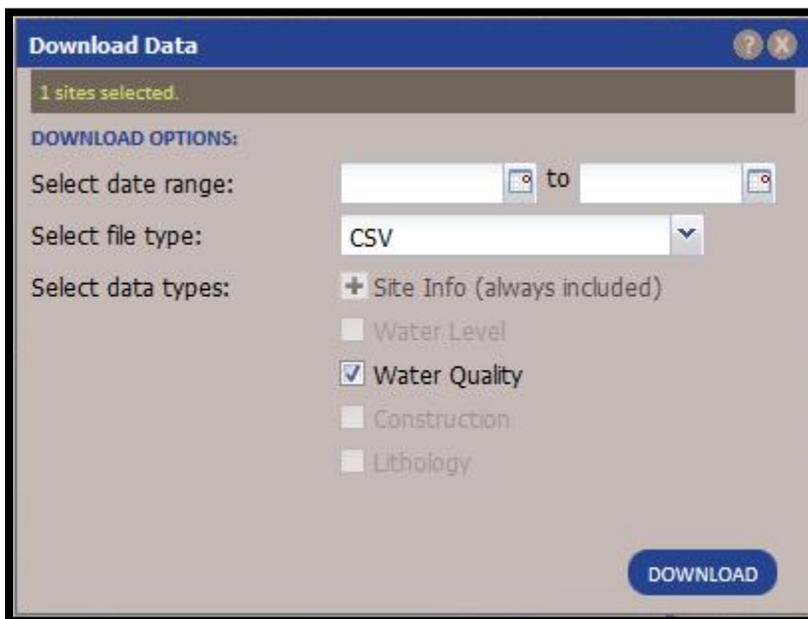
Site Name	Agency	WL	WQ	Log
BENTON 4 (BE 4)	USGS	●		●
BURLINGTON NORTHERN * BNTC-...	MBMG	●		●
BURLINGTON NORTHERN * BNTC-...	MBMG	●		●
BURLINGTON NORTHERN * BNTC-...	MBMG	●		●
FRENCH WAYNE	MBMG	●		●
PETTIT MIKE	MBMG	●		●
TIPPECANOE 17 (TC 17)	USGS	●	●	●
TIPPECANOE 18 (TC 18)	USGS	●	●	●
USGS-BLM BIG SHEEP MTN	MBMG	●		●

9 sites selected.

REMOVE SELECTED DOWNLOAD

The 'Site Selection' list shows the site name, agency, and data availability for your selected sites. You can sort the site list by clicking on the column headers, or remove a site from the list by selecting it (control-click or shift-click for more than one) then use the 'Remove Selected' button. You can also see the detailed site information window with a double-click on any site in the list.

When the site list meets your needs, you can download the available data with the 'Download' button, which pops up a download window:



If you only want data for a specific date range (for water level or water quality data only), you can set a date range in this window; a blank beginning or end is unlimited. You can choose from CSV (comma-separated value) or TSV (tab-separated value) file formats, and can choose which data types to download. The download will be a ZIP file holding a separate TSV or CSV file for each selected data type.

Note: The application works best in Chrome, Firefox and the latest version of IE (9 & 10). When using IE, make sure that your browser is not set to 'compatibility mode'. If you are using older versions of IE, it is strongly recommended to either download Google Chrome Frame or to update your browser, as there are known deficiencies with IE 7 and 8. Administrative rights are not needed in order to use Google Chrome Frame.