

Salinas Valley GSP Web Map User Guide

Log-in Page

The GSP web map can be accessed through a link from the SVBGSA website.

Users should enter the following log-in credentials:

Email Address: salinasvalleyguest@svbgsa.org

Password: salinas_hydro

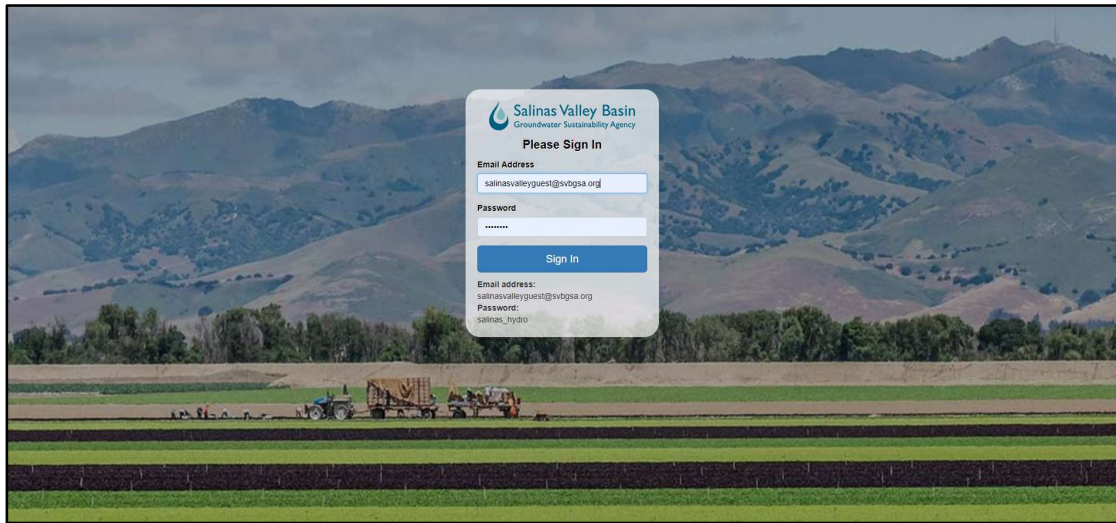


Figure 1: GSP Web Map Log-in Screen

Web Map:

After logging in, the Salinas Valley web map will appear. This map allows users to visualize, search, and export data. The tabs to the left of the map provide various functionalities.

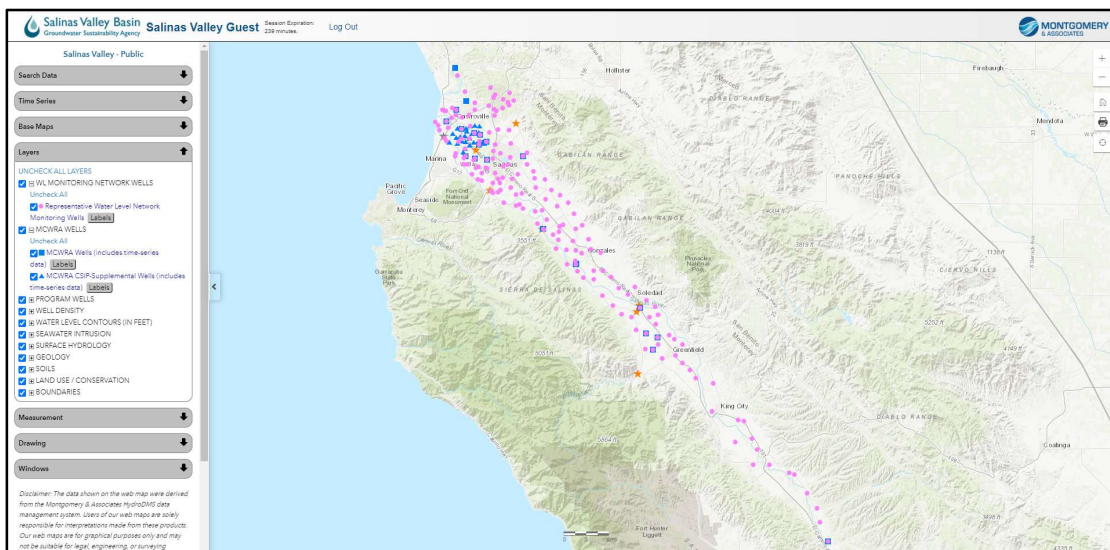


Figure 2: Salinas Valley GSP Web Map

Web Map Layers:

The 'Layers' tab allows the user to turn on and off map layers, including MCWRA-owned wells and wells in the Representative Water Level Monitoring Network, which include time series data, and other GIS data, such as water level contours, geology, boundaries, etc. Hover over the name of the layer to view source information.

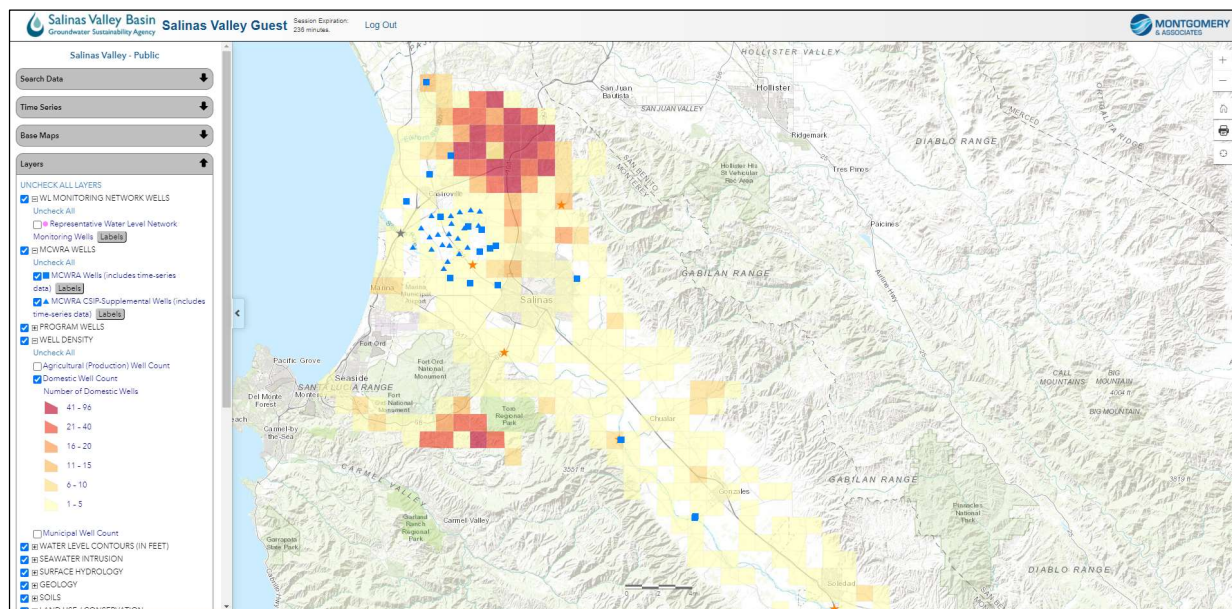


Figure 3: Web Map Layers

Station Attributes Pop-Up:

When a user clicks on a well or other GIS layer feature, a pop-up window with attribute data appears.

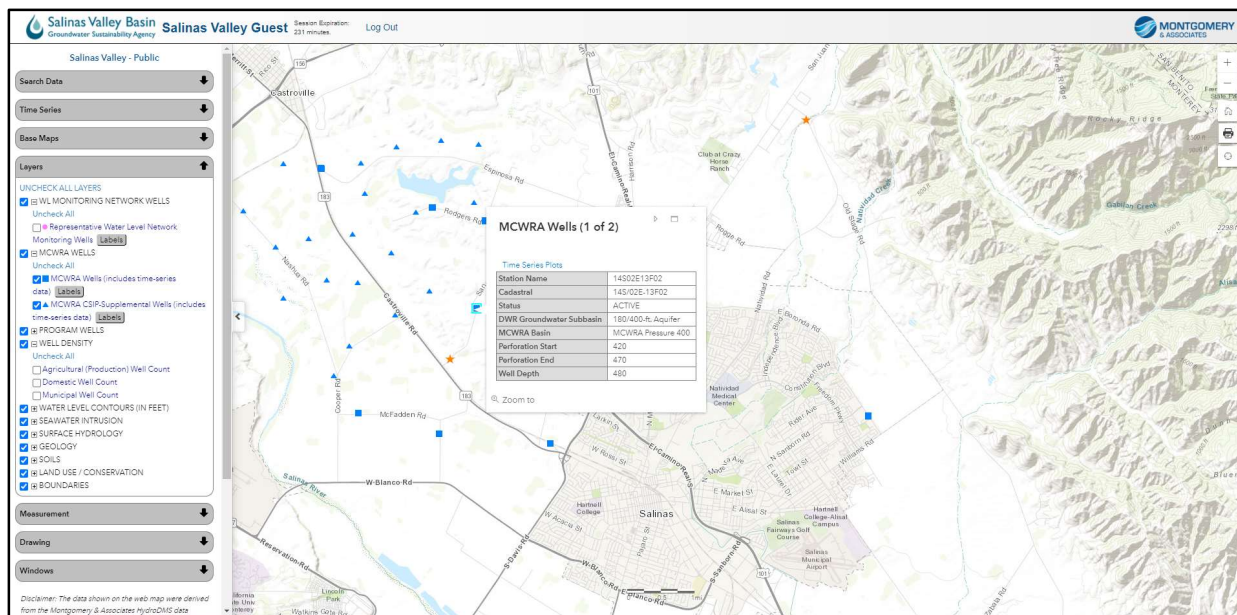


Figure 4: Attribute Pop-up

Base Map Options:

The 'Base Maps' tab allows users to choose different ESRI base maps (e.g. imagery, streets, topographic, etc.).

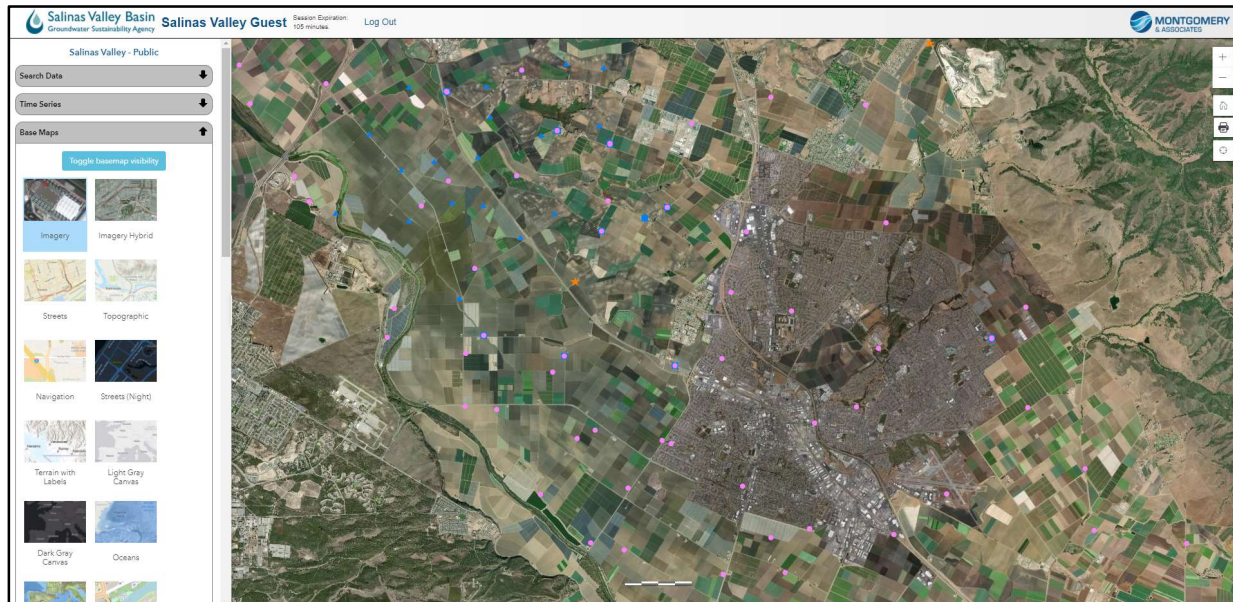


Figure 5: Base Map Options

Search Function:

Under the 'Search Data' tab, users can query data from wells. The search can be set for the whole dataset, the visible area, or a specific area (by establishing a user-defined radius or user-drawn polygon).

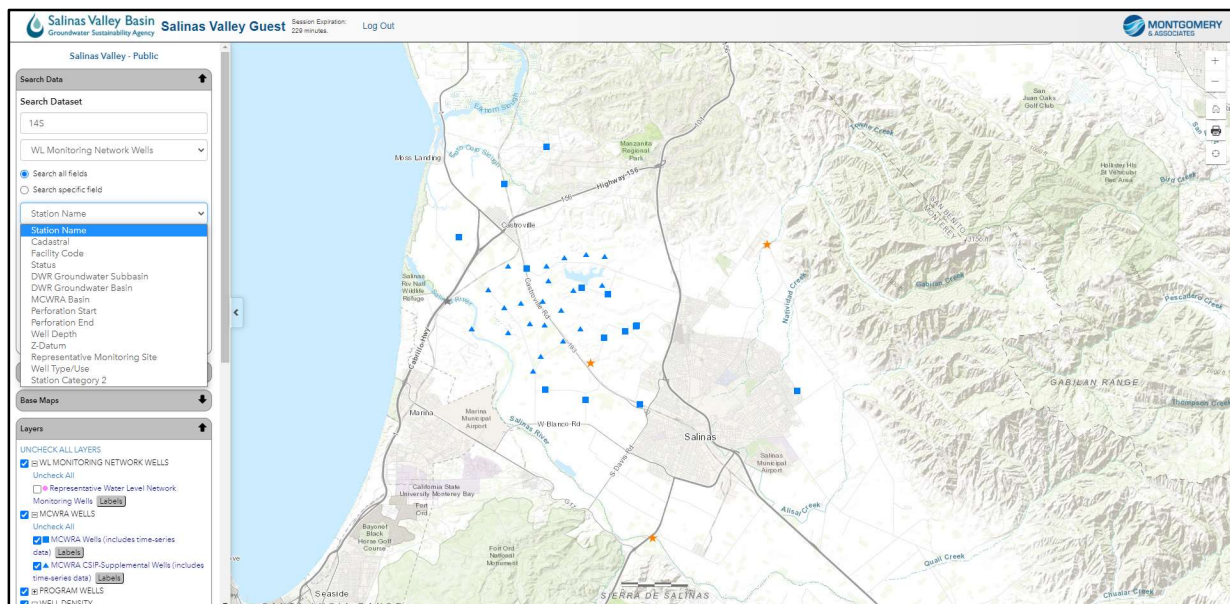


Figure 6: Search Function

Search Results Table:

After specifying the search terms and clicking the 'Search' button, a table of search results will appear.

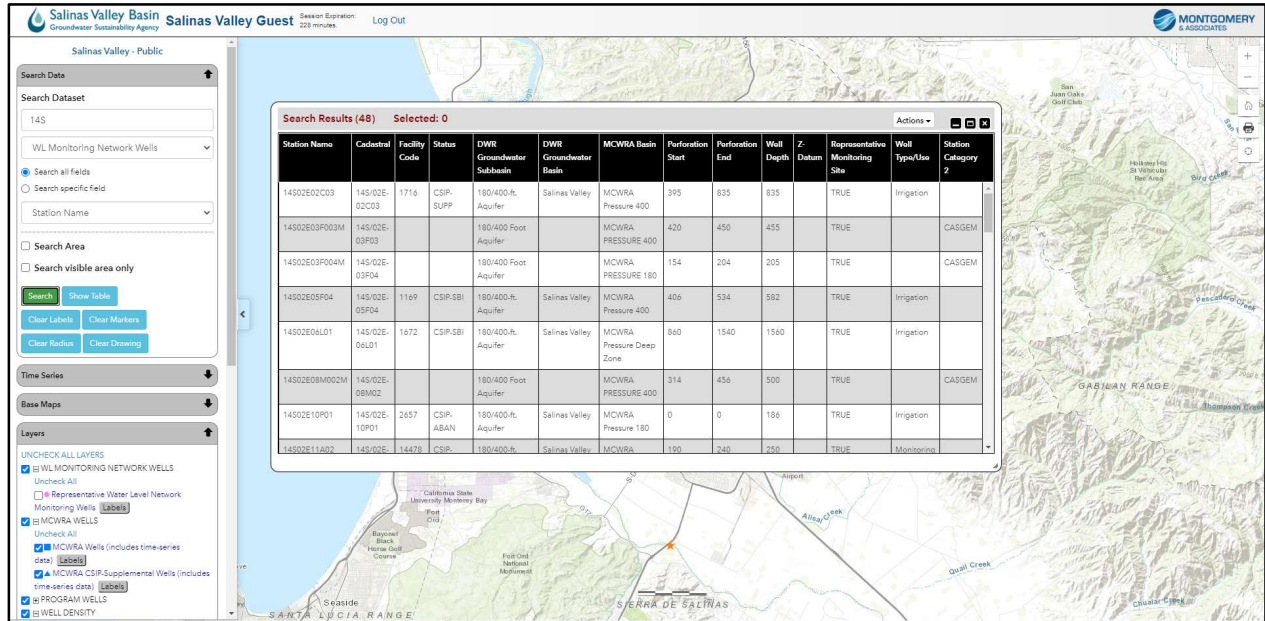


Figure 7: Search Results Table

Mark, Label, and/or Zoom to Selected Stations:

From the search results table, users can select records and then zoom to, mark, label, and/or chart (on the 'Time Series' tab), the selected records. The search results can also be exported as a .csv file.

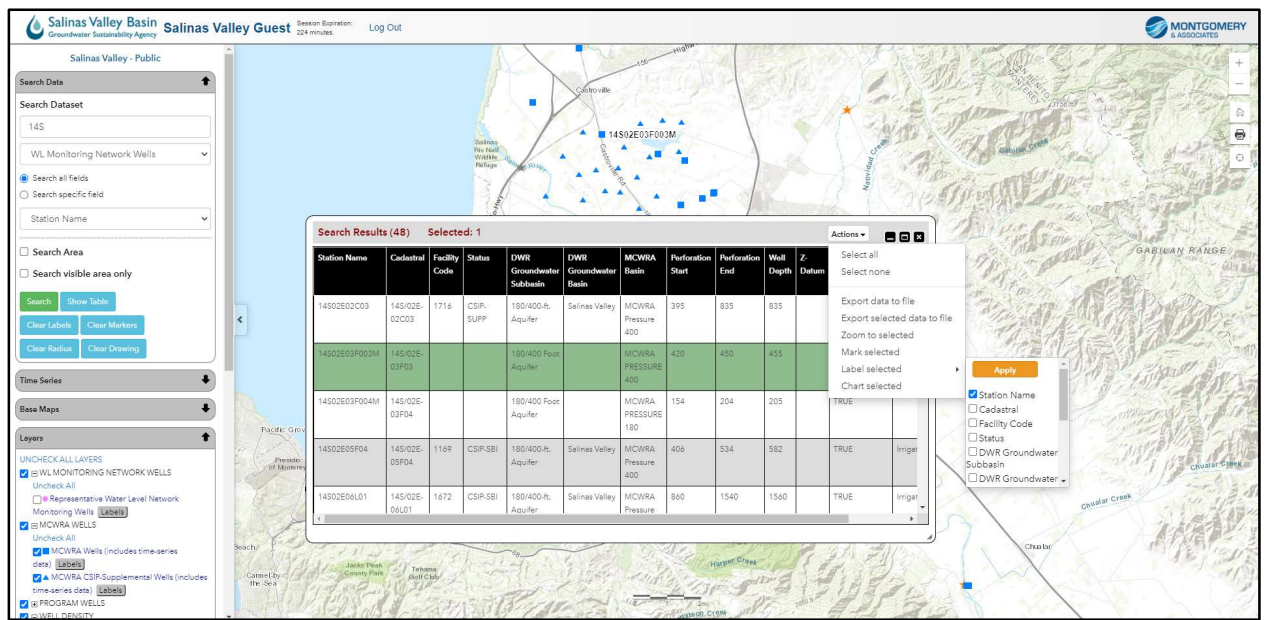


Figure 8: Mark, label, and/or zoom to selected stations

Time Series Data Function:

The 'Time Series' tab allows users to select wells and create graphs showing water level, pumping, and water quality time series data associated with those wells. Users can also create graphs showing surface water flow rates for USGS stream gages. Wells and/or stream gages can be selected from the 'Add Station' drop-down or by clicking the 'Time Series Plot' link on a well or stream gage pop-up.

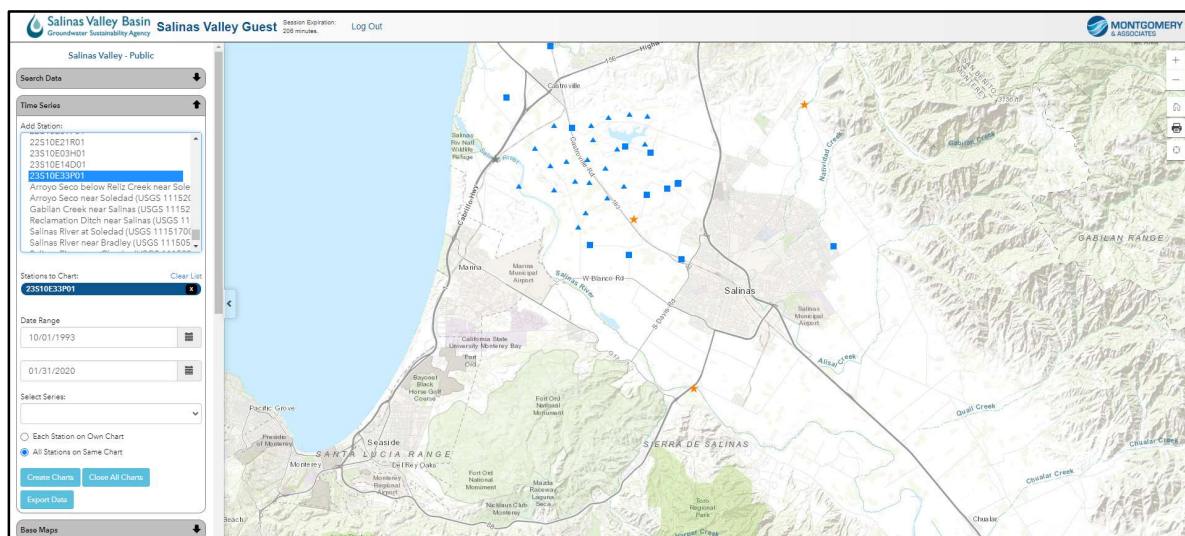


Figure 9: Time Series Data Function

Selecting Time-Series Data:

The date range and parameters automatically adjust based on the available data, though users can set specific date ranges. Users can choose up to two series at a time. The 'Concentration' series includes water quality parameters measured as concentrations; multiple concentration parameters can be plotted simultaneously. Water quality parameters that are not measured as concentrations are listed as separate series.

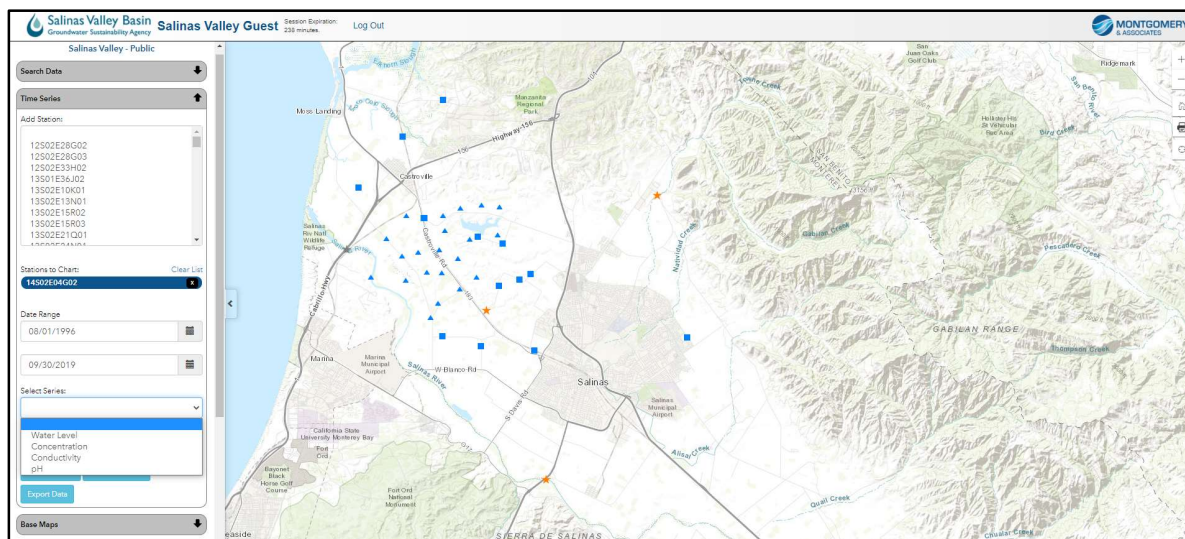


Figure 10: Selecting time series data to plot for wells

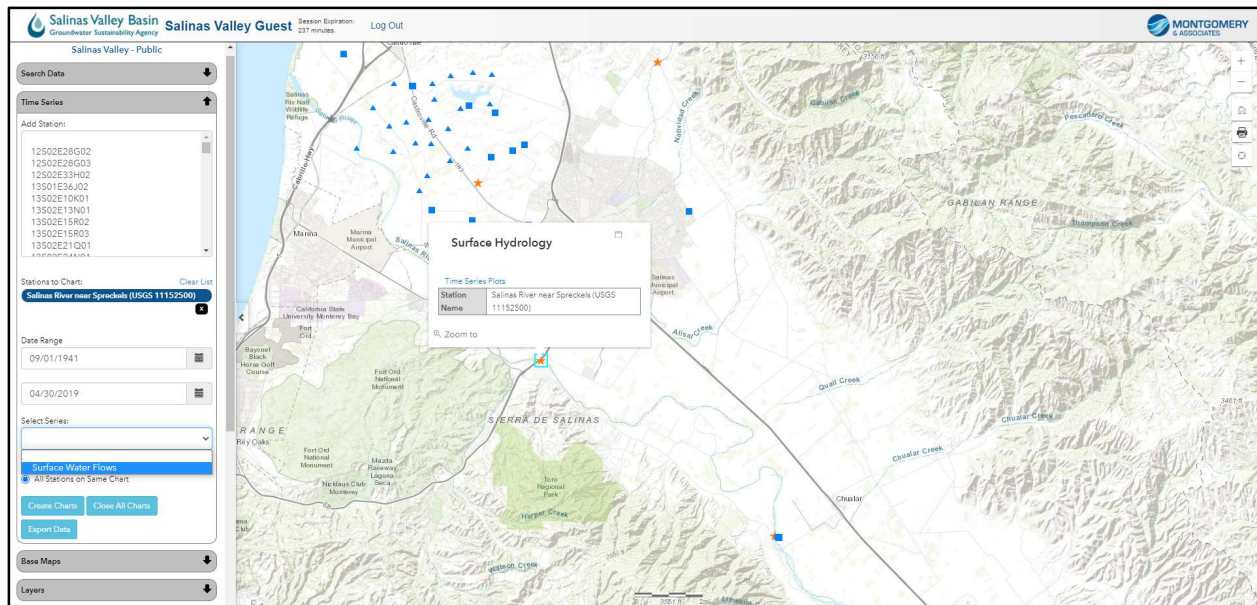


Figure 11: Selecting time series data to plot for USGS stream gages

Selecting Measure Type, Averaging Period, and Units for Time-Series Data Charts:

For Water Level, Pumping, and Surface Water Flow series, users can select the averaging period. For the Concentration series, users can specify one or more concentration parameter as well as the measurement units.

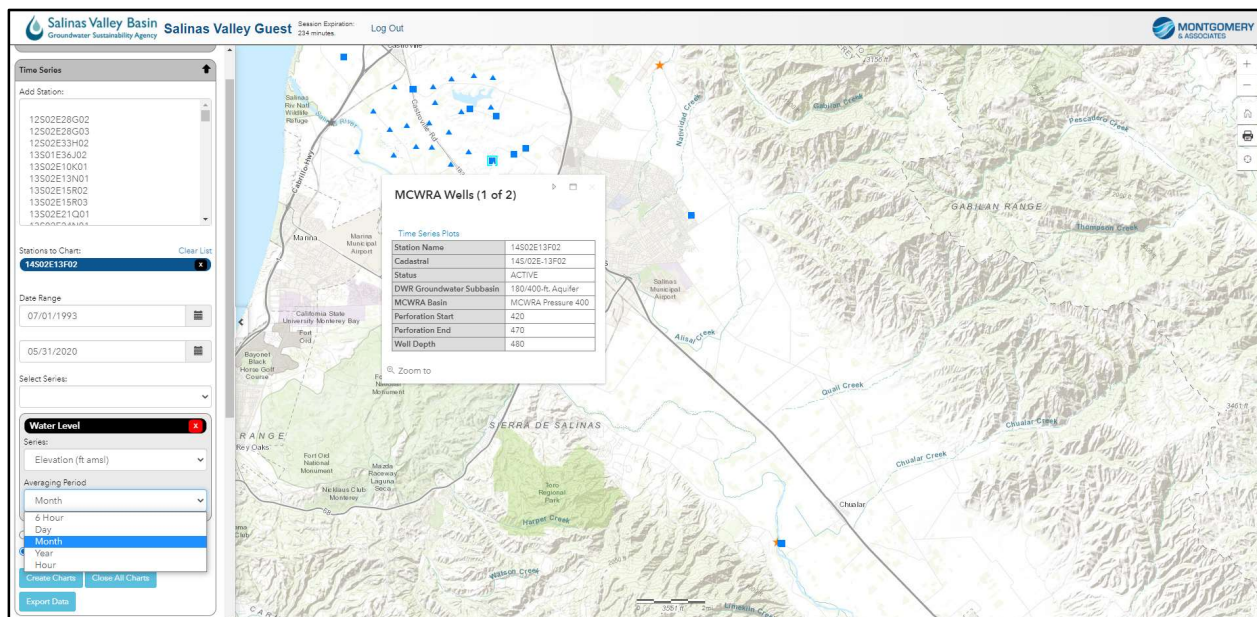


Figure 12: Selecting averaging period for water level and pumping series for MCWRA wells

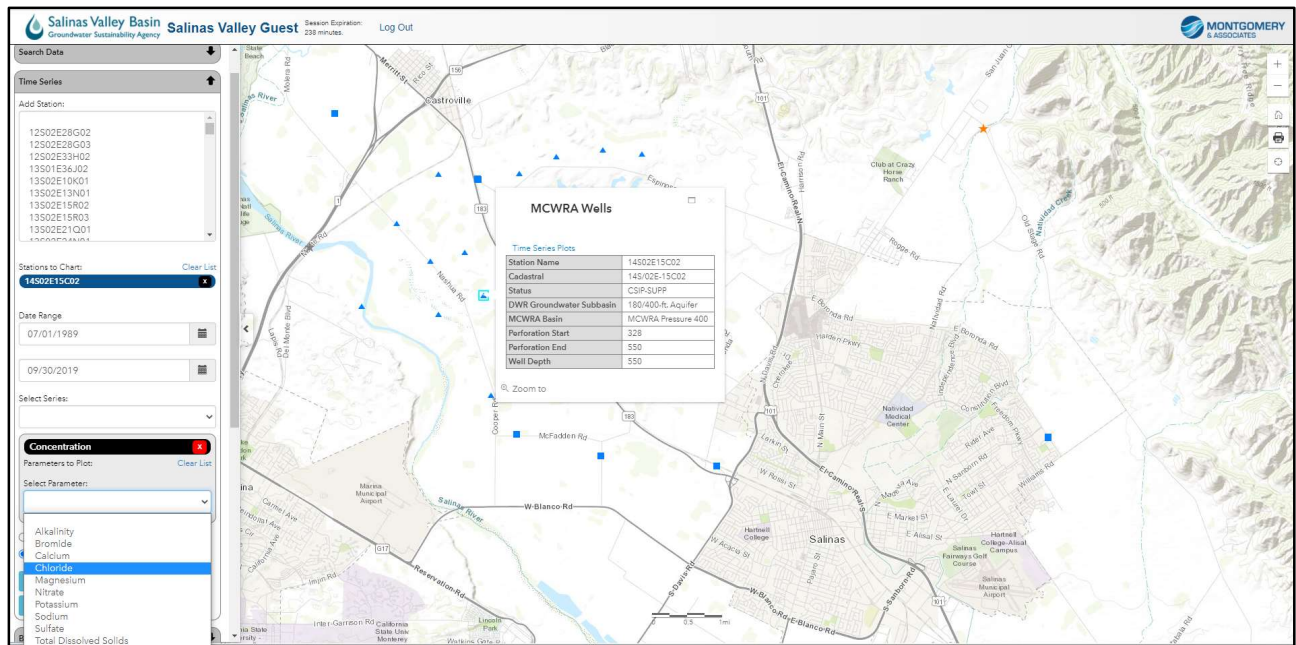


Figure 13: Selecting parameters and units for water quality concentration series

Time-Series Charts

After selecting the time series and settings, users can click 'Create Charts' to create the time series chart.

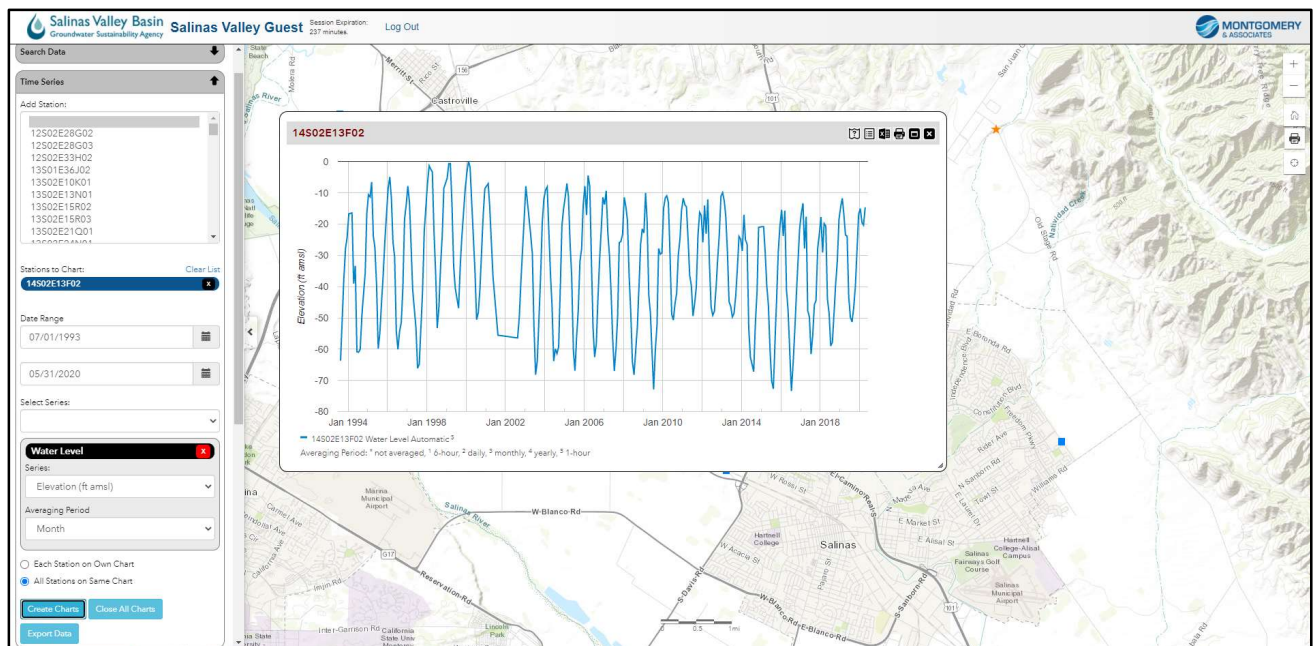


Figure 14: Time series chart

Time-Series Charts with Data Table:

Clicking the 'Show Data Table' button in the top right corner of the graph window opens a data table below the graph. This table can be exported as a .csv file by clicking the 'Export' button (Excel icon) in the top right corner of the chart pop-up.

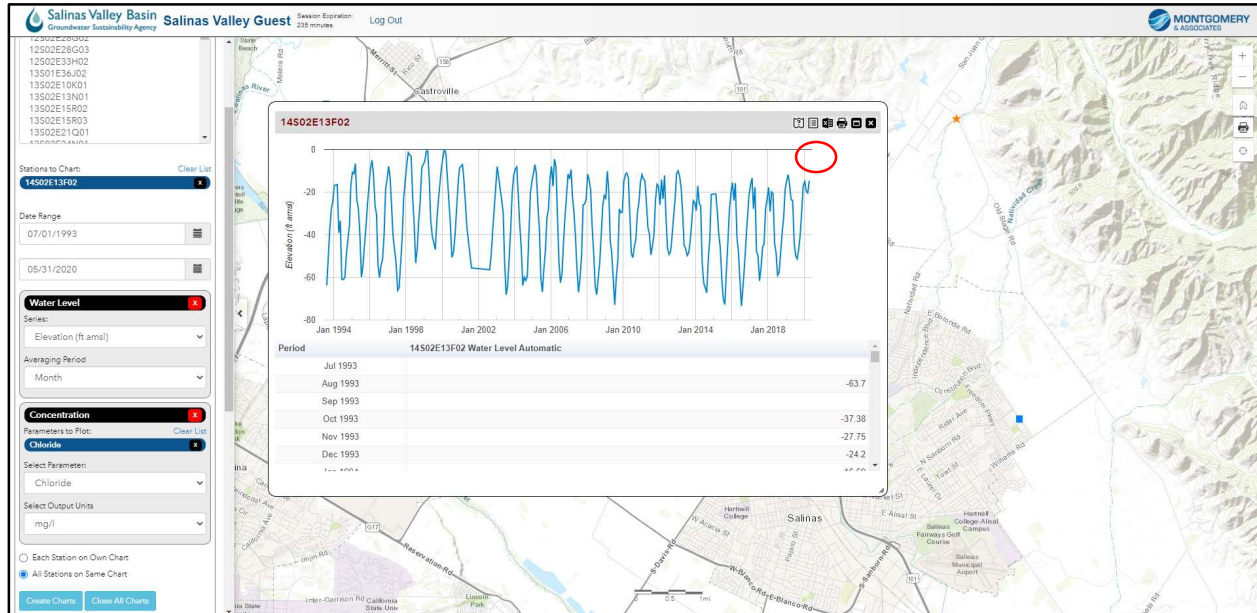


Figure 15: Time series chart with data table

Time-Series Charts with Multiple Wells:

To show data for multiple wells on the same chart, add the additional well(s) to the 'Stations to Chart' drop-down, specify series, and check the 'All Stations on Same Chart' bubble.

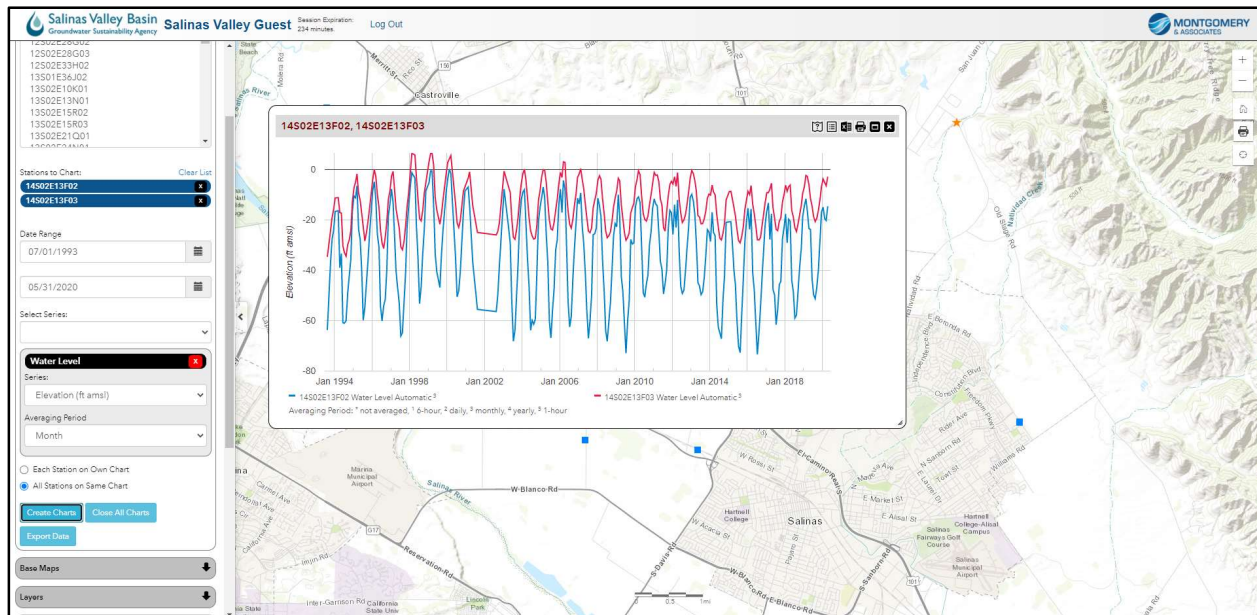


Figure 16: Time Series Chart for Multiple Wells

Measurement Tool:

Under the 'Measurement' tab, users can measure distances by drawing lines between two points and measure area by drawing polygons. Users can also determine the latitude and longitude of a point using this tool. Double-click to stop-drawing and click the measure icon again to remove the lines.

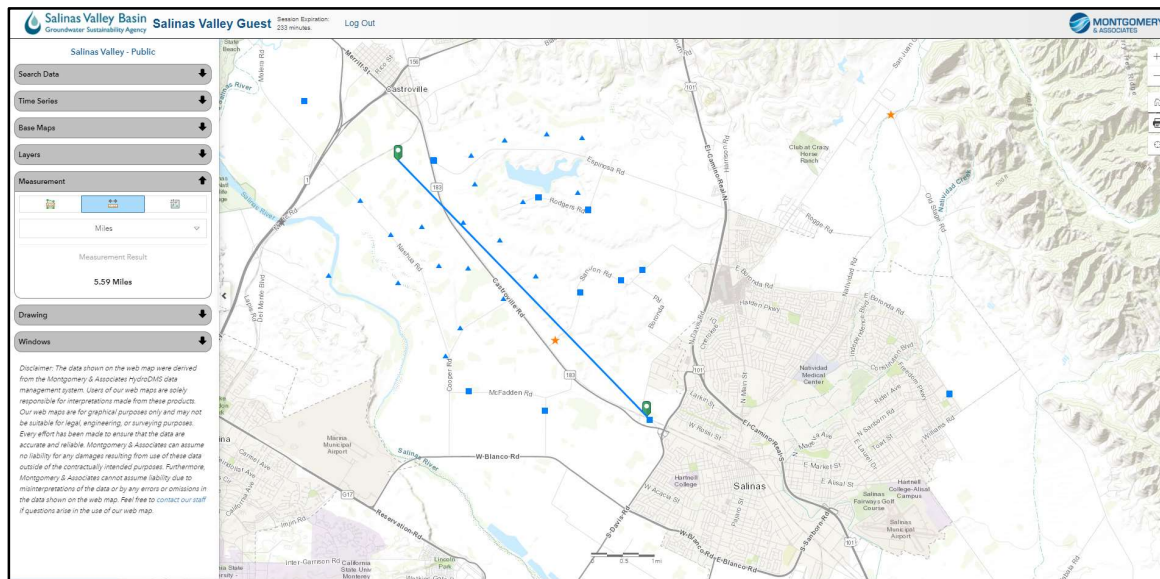


Figure 17: Measurement Tool

Drawing Tool:

The 'Drawing' tab allows users to draw shapes, including polygons, points, and arrows, on the web map. Click the 'Start Drawing' button to begin drawing and choose the shape, width, and color of the shape from the respective drop-downs. When finished drawing, click the 'Stop Drawing' button. To remove the drawing, click the 'Clear Drawing' button.

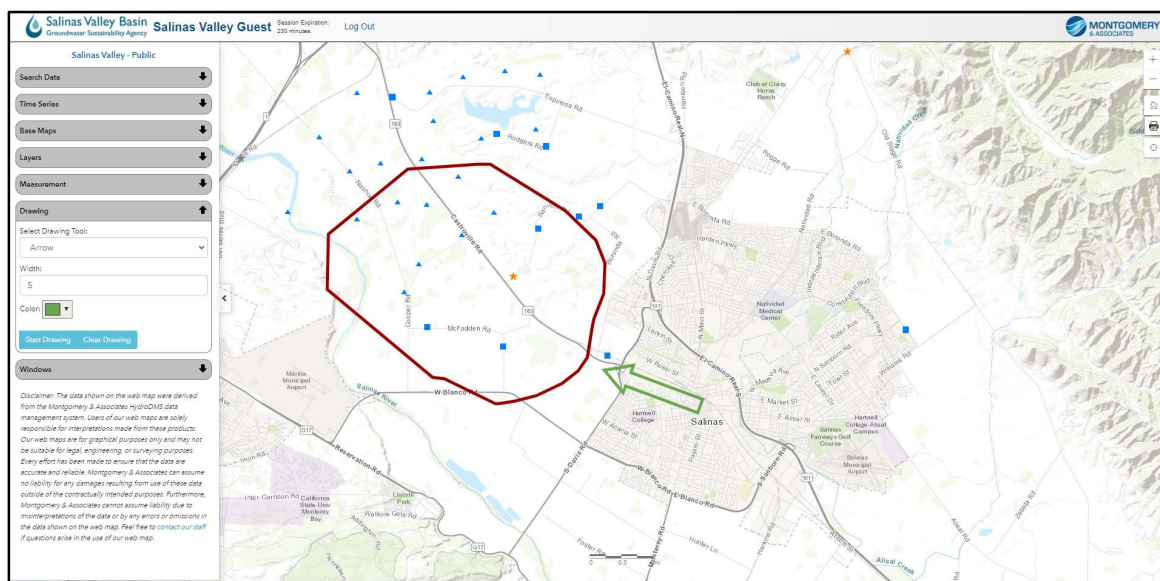


Figure 18: Drawing Tool

'Find my Location' Tool:

Web map users can locate themselves by clicking the 'Find my location' compass icon in the top-right corner of the web map. After moving to a different location, click the compass icon again to find the updated location.



"Find My Location" Icon



Current Location Indicator

Figure 19: 'Find my Location' Tool