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

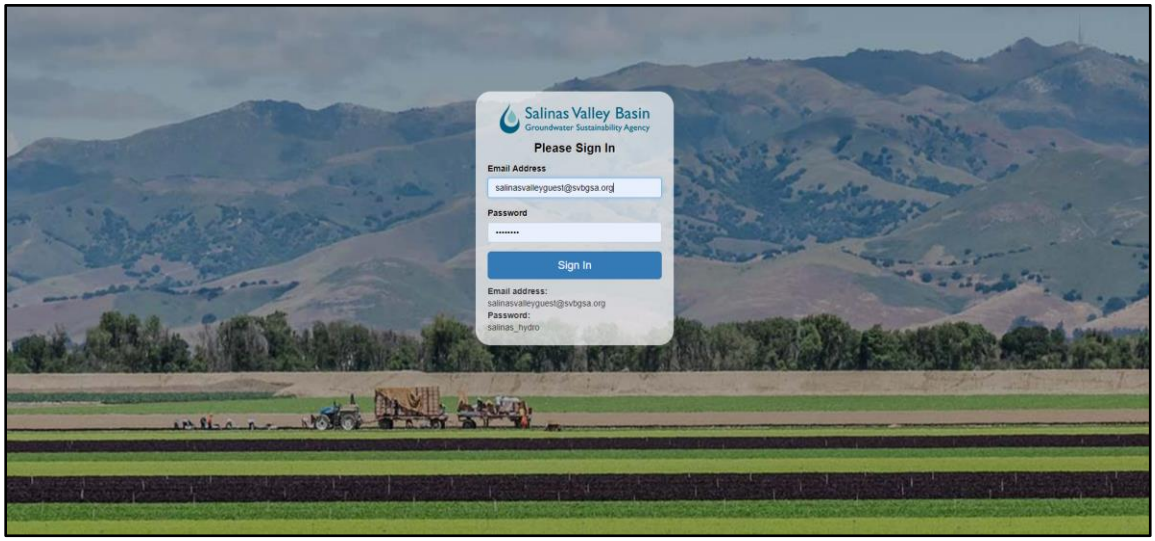


Figure 1: GSP Web Map Log-in Screen

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.

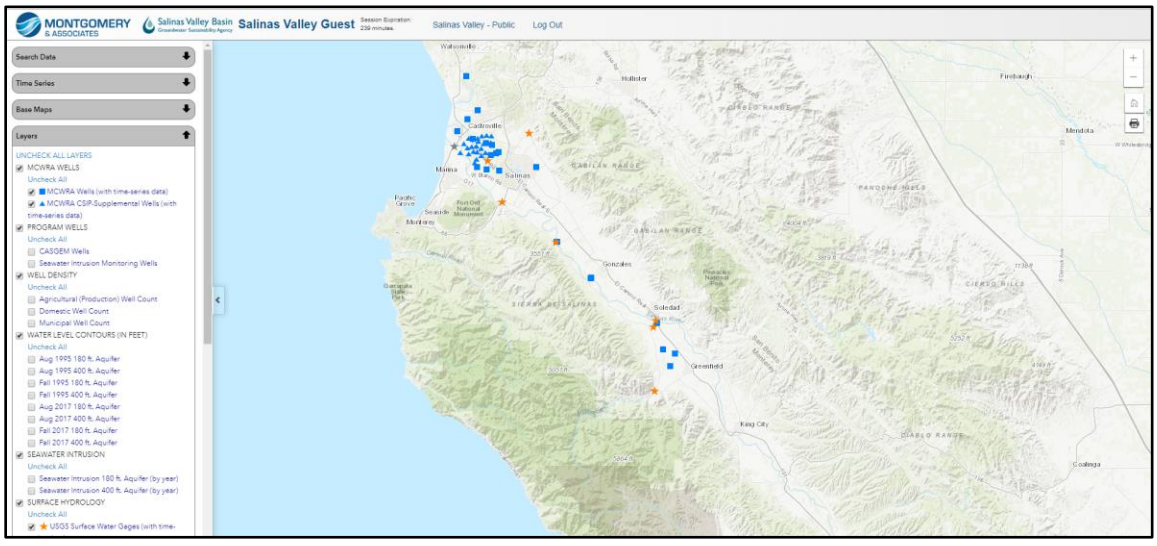


Figure 2: Salinas Valley GSP Web Map

Web Map Layers:

The 'Layers' tab allows the user to turn on and off map layers, including MCWRA-owned wells, 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.

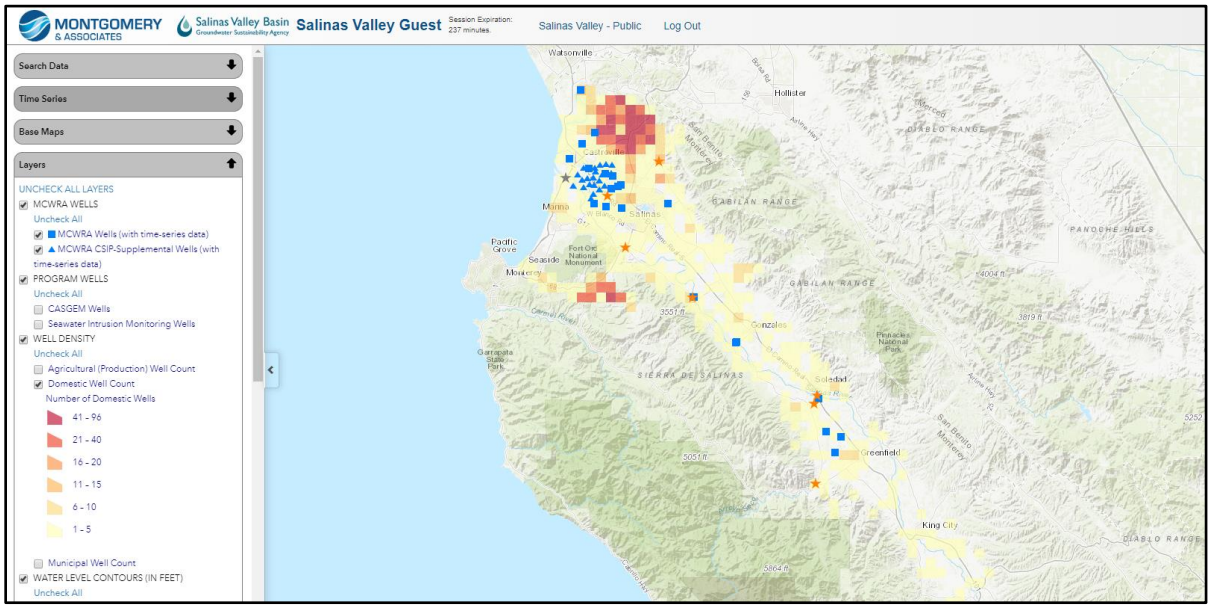


Figure 3: Web Map Layers

Station Attributes Pop-Up:

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

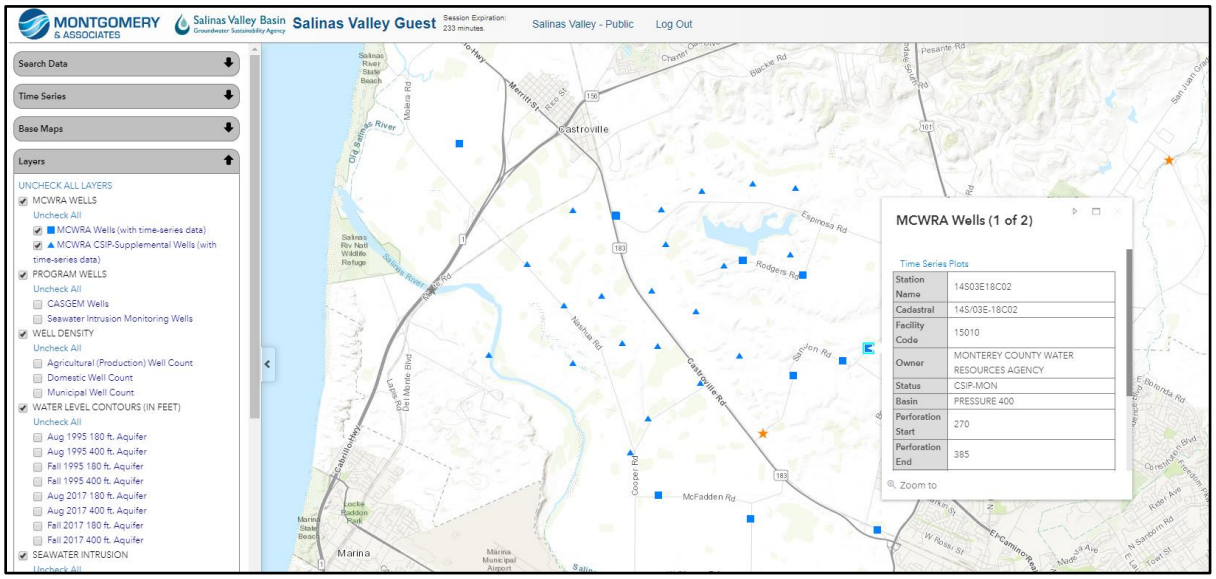


Figure 4: Attribute Pop-up

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 the MCWRA Wells layers. 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).

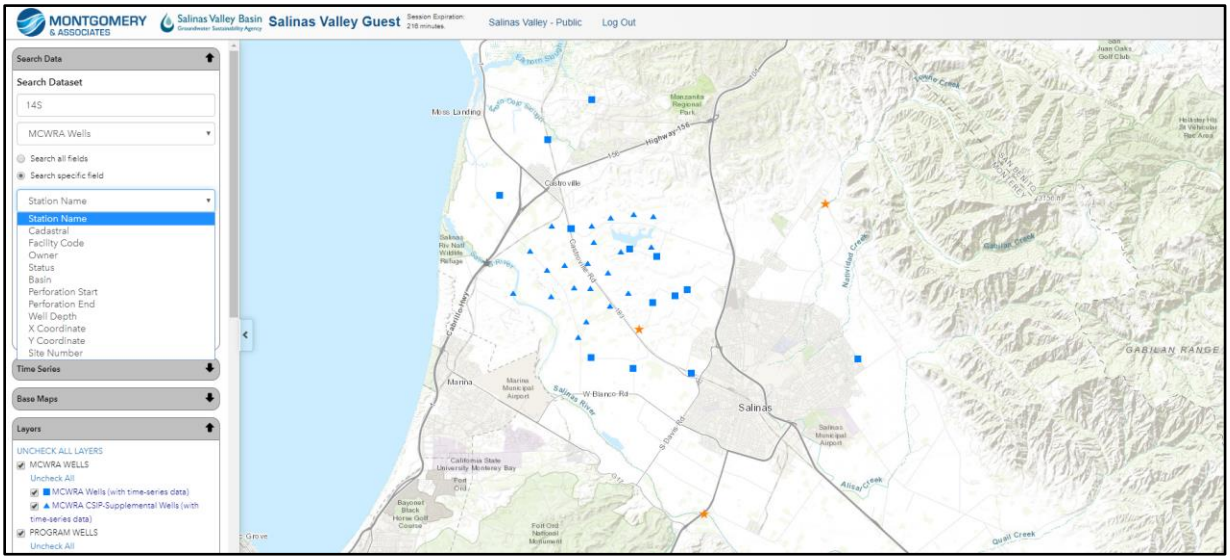


Figure 6: Search Function

Search Results Table:

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

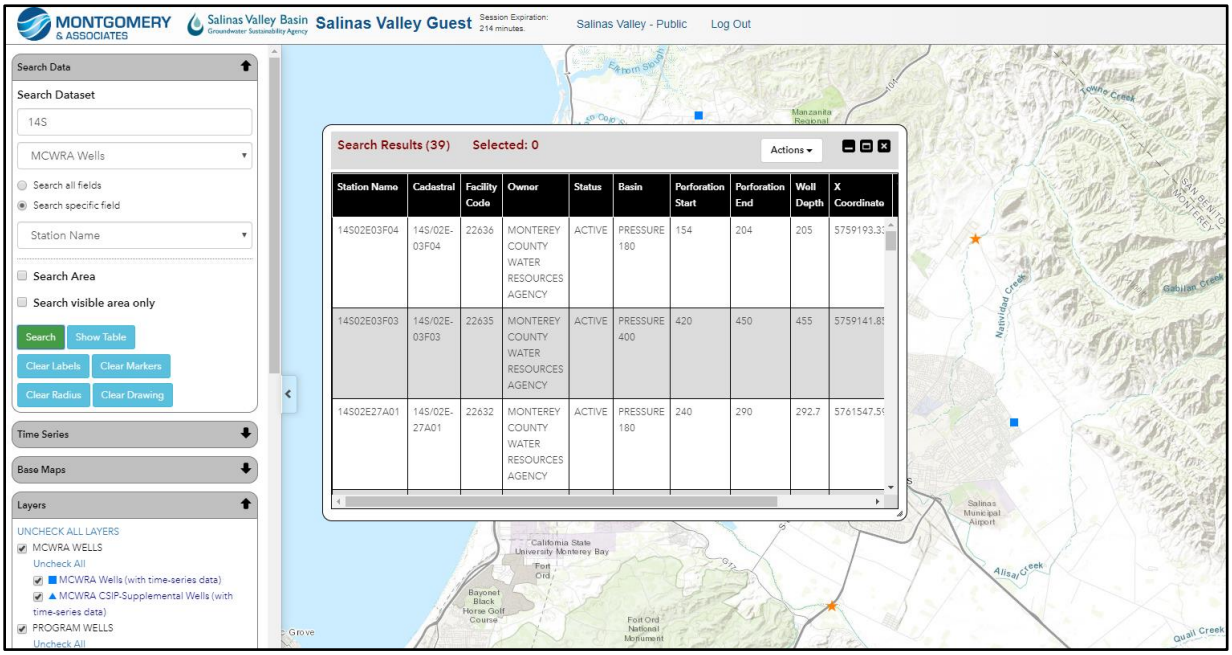


Figure 7: Search Results Table

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.

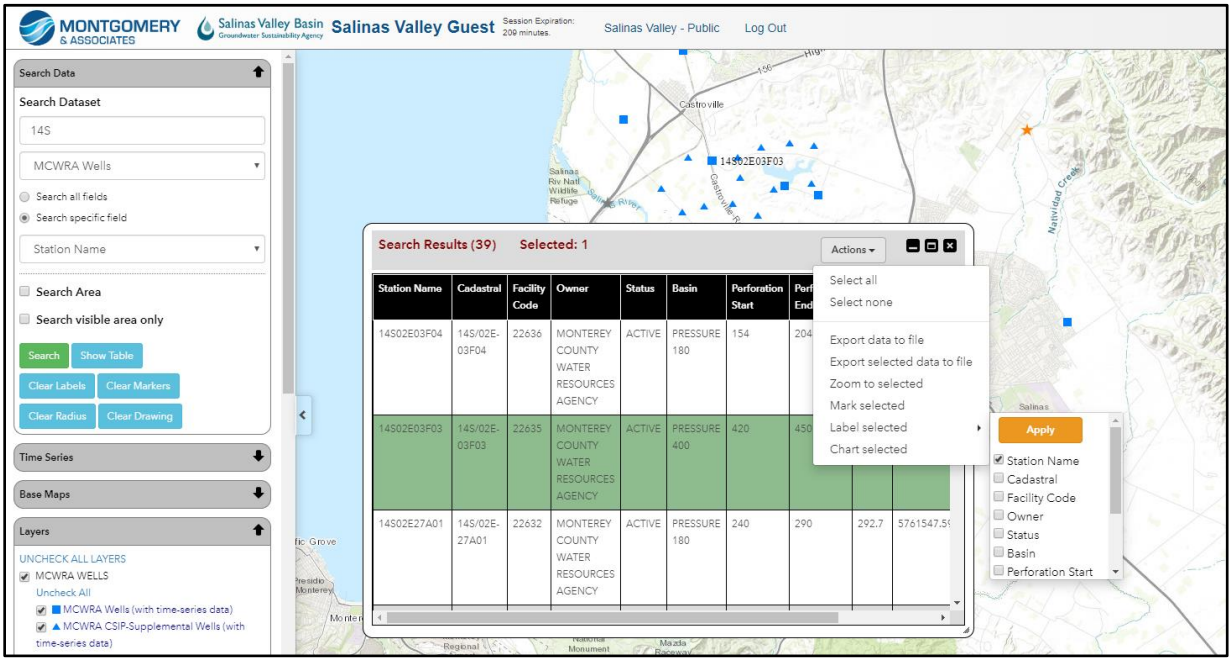


Figure 8: Mark, label, and/or zoom to selected stations

Time Series Data Function:

The 'Time Series' tab allows users to select MCWRA 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.

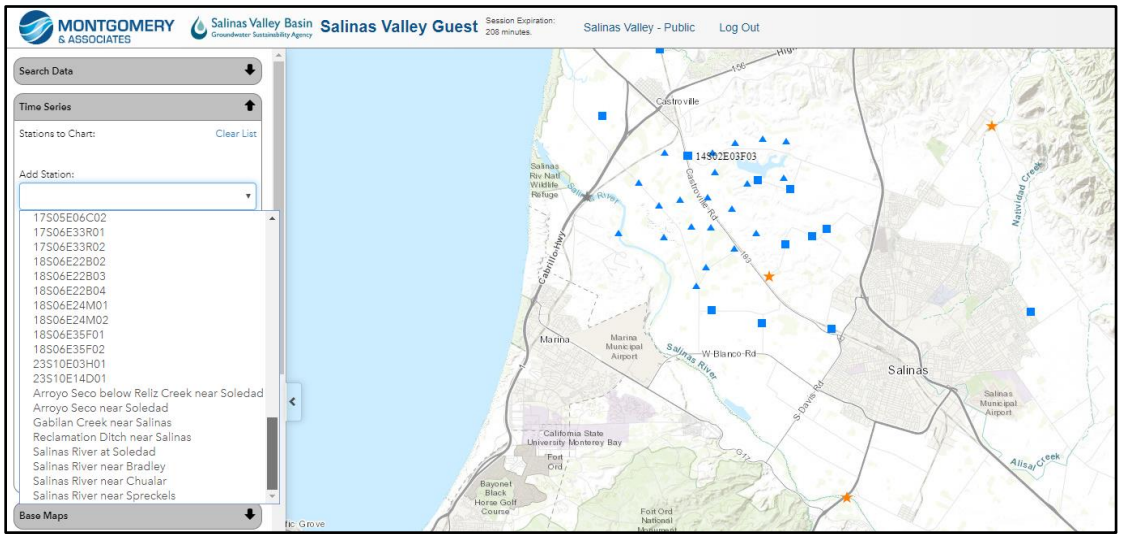


Figure 9: Time Series Data Function

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.

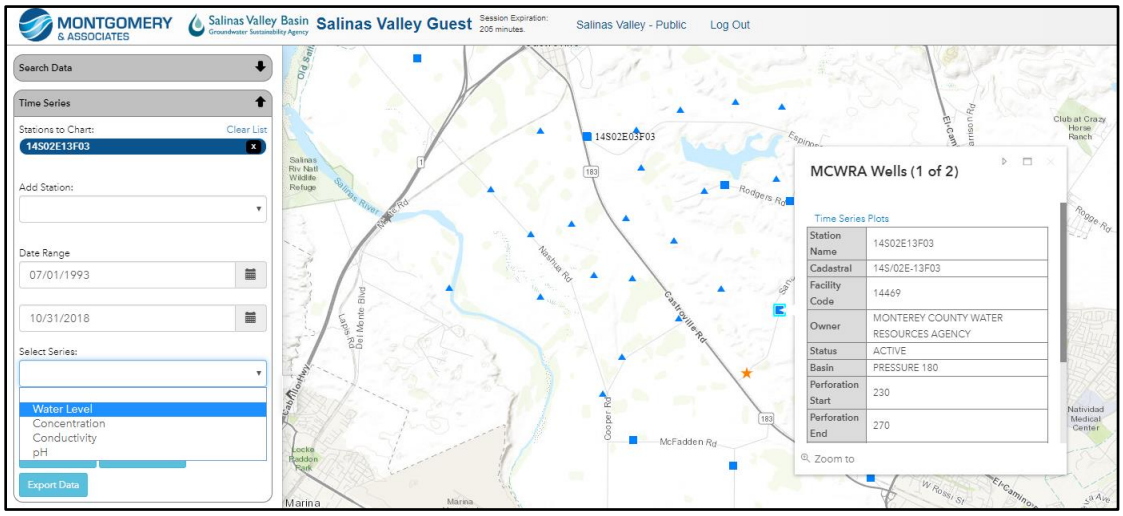


Figure 10: Selecting time series data to plot for MCRWA wells

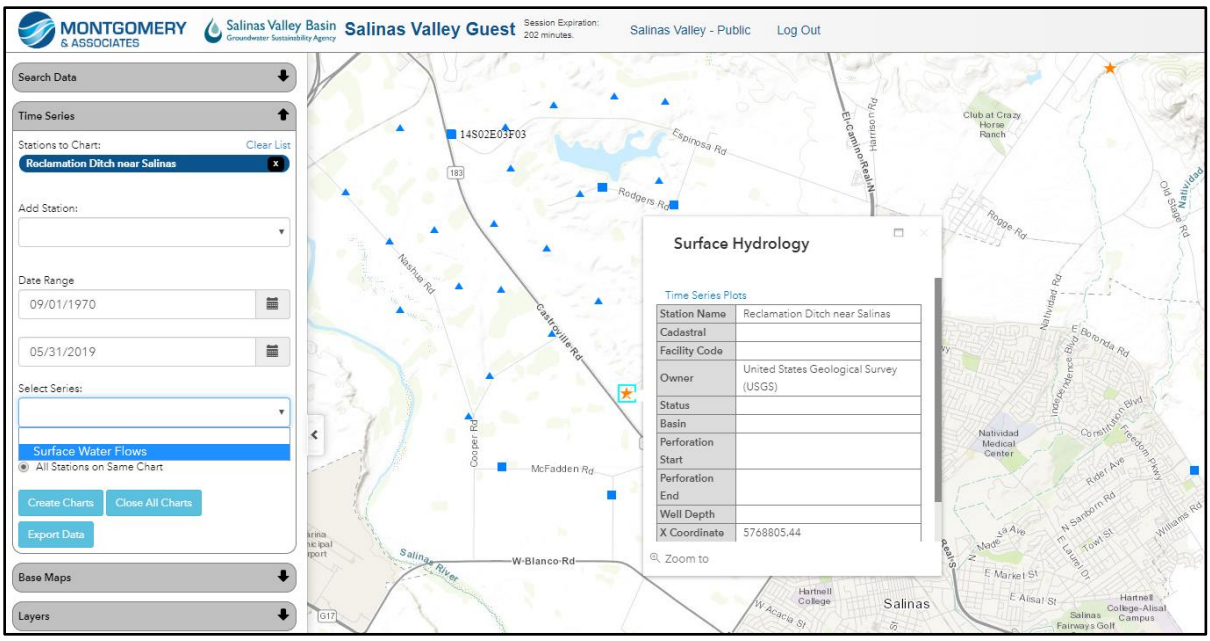


Figure 11: Selecting time series data to plot for USGS stream gages

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.

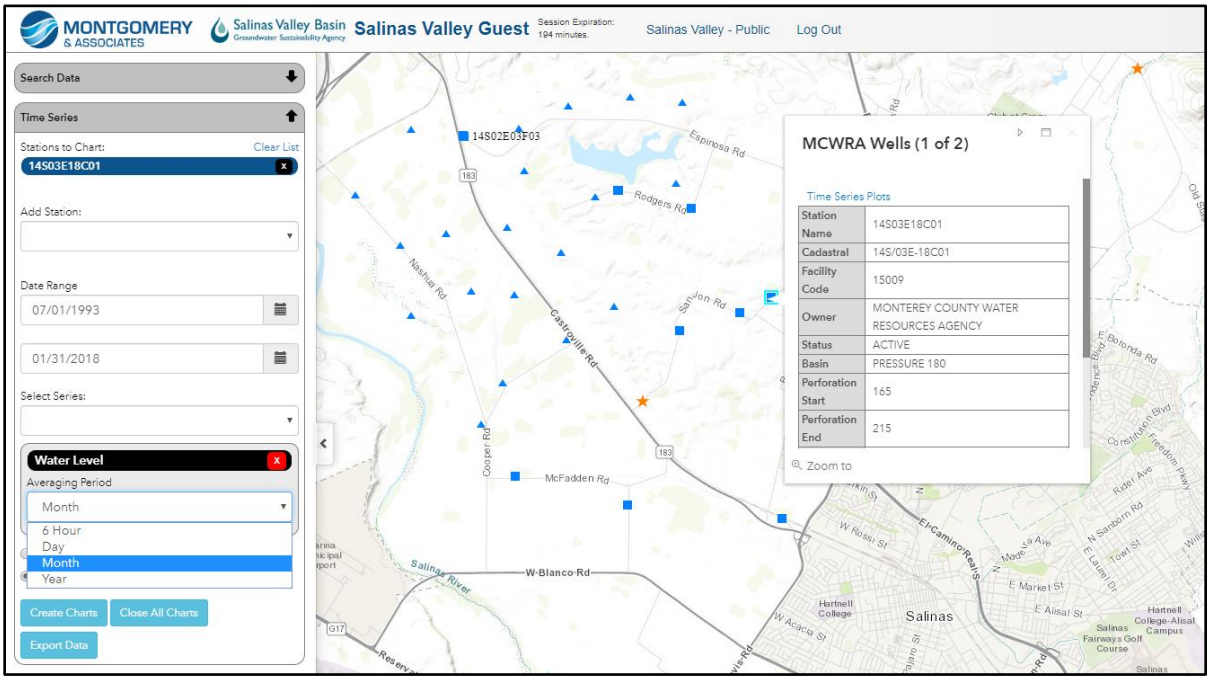


Figure 12: Selecting averaging period for water level and pumping series for MCWRA wells

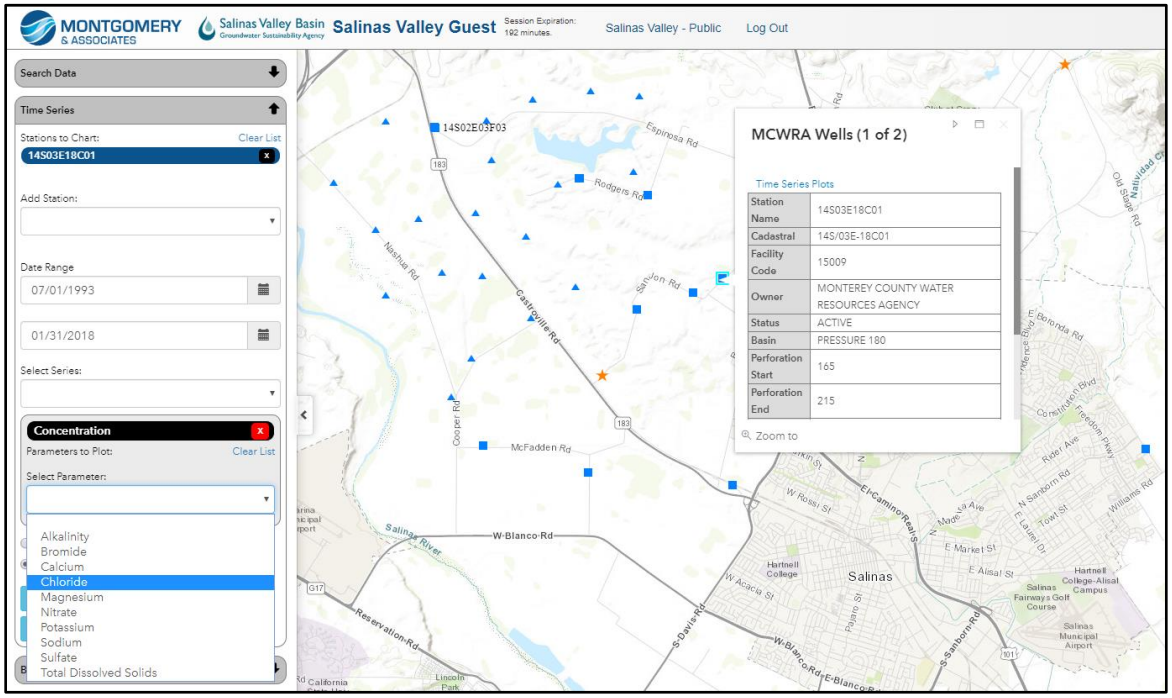


Figure 13: Selecting parameters and units for water quality concentration series

Time-Series Charts

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

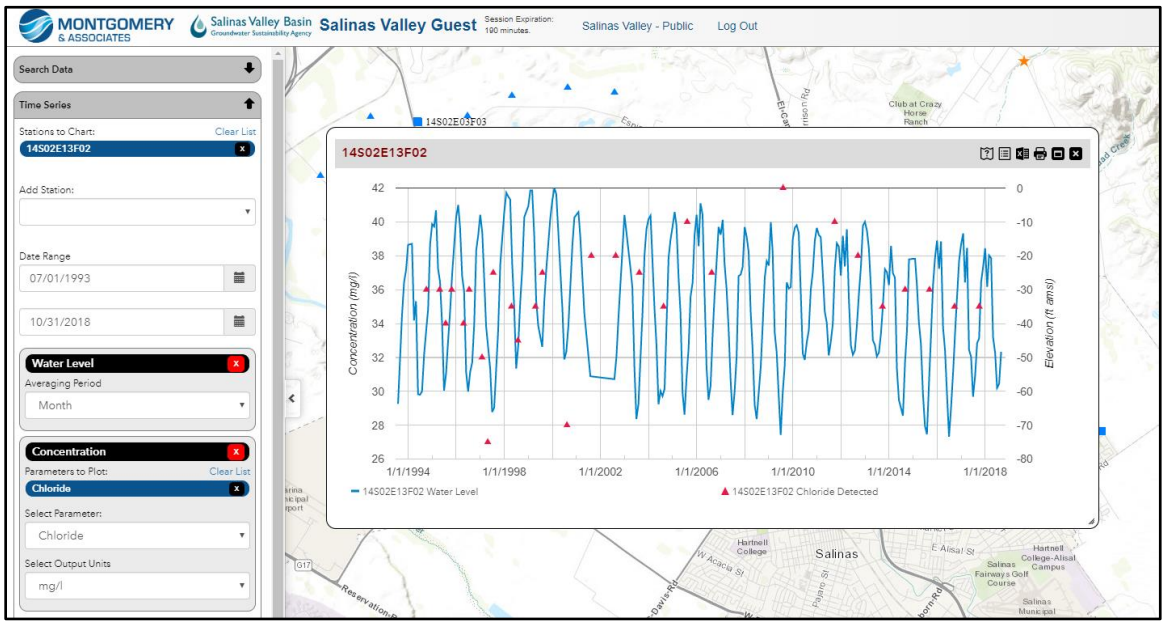


Figure 14: Time series chart

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.

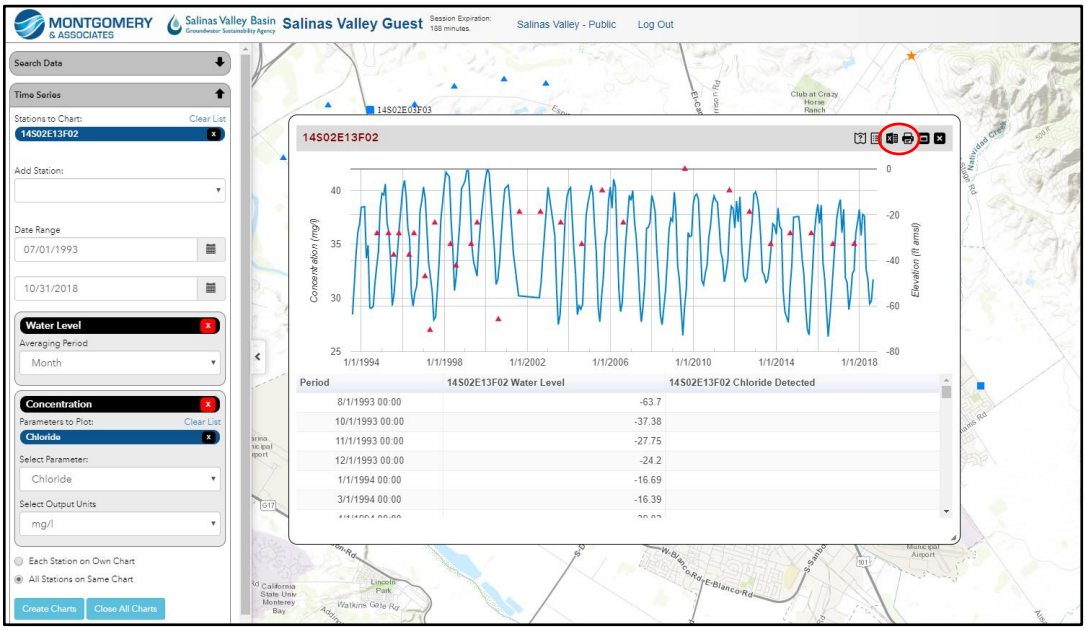


Figure 15: Time series chart with data table

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.

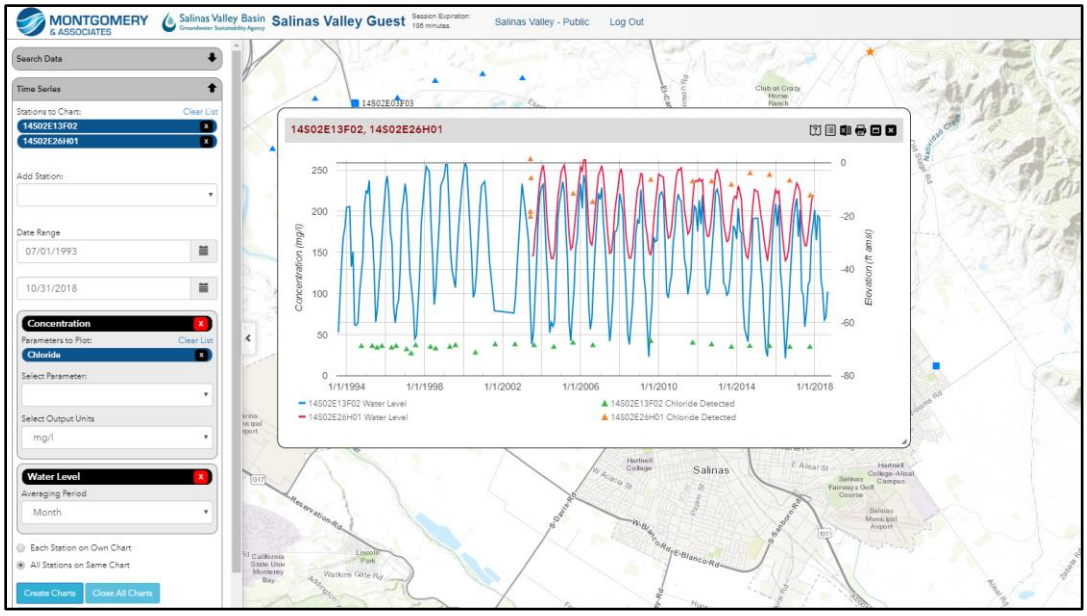


Figure 16: Time Series Chart for Multiple Wells

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.

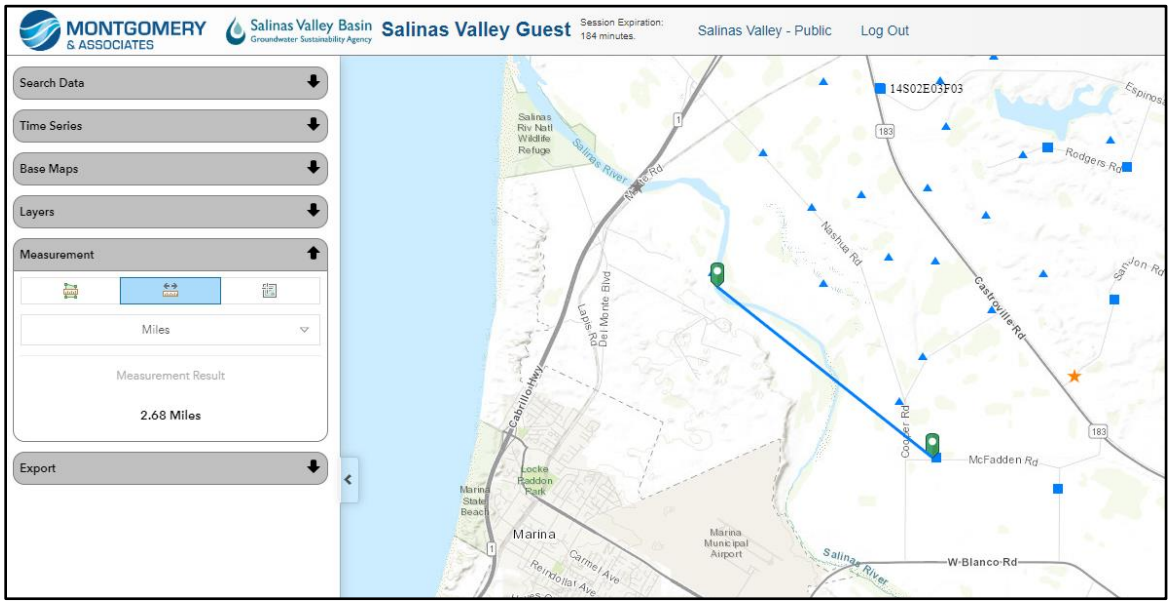


Figure 17: Measurement Tool

Data Export Function:

The 'Export' tab allows users to download raw data. Users can select to export stations (MCWRA wells), water level, and pumping data.

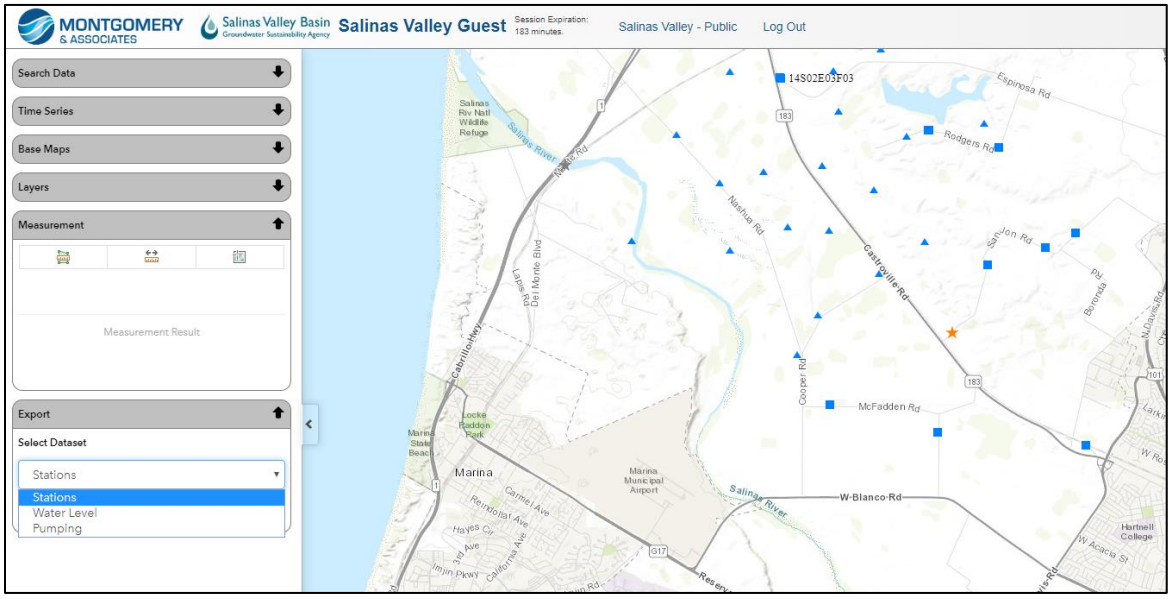
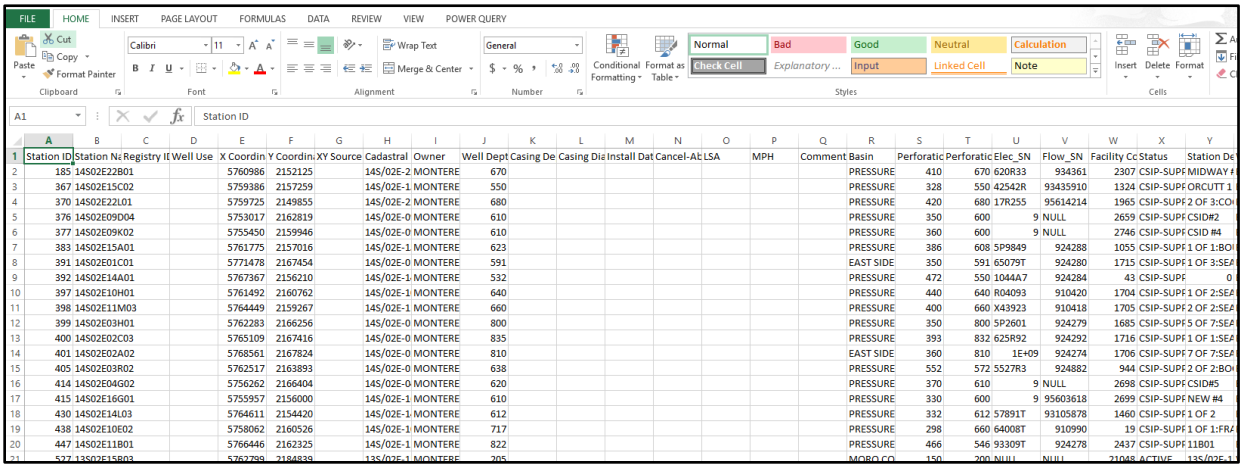


Figure 18: Data Export Tool

Data Export Output:

The output of the 'Export' tool is a .csv file that can be saved and printed.



Station ID	Station Na	Registry ID	Well Use	X Coordin	Y Coordin	XY Source	Cadastral	Owner	Well Dept	Casing De	Casing Dia	Install Dat	Cancel-Ab	LSA	MPH	Comment	Basin	Perforatic	Perforatic	Elec_SN	Flow_SN	Facility Cc	Status	Station De
185	14S02E22B01			5760986	2152125		14S/02E-2	MONTERE	670								PRESSURE	410	670	620R33	934361	2307	CSIP-SUPF	MIDWAY #
367	14S02E15C02			5759386	2157259		14S/02E-1	MONTERE	550								PRESSURE	328	550	42542R	93435910	1324	CSIP-SUPF	ORCUTT 1
370	14S02E22L01			5759725	2149855		14S/02E-2	MONTERE	680								PRESSURE	420	680	17R255	95614214	1965	CSIP-SUPF	2 OF 3:CO
376	14S02E09D04			5753017	2162819		14S/02E-0	MONTERE	610								PRESSURE	350	600	9	NULL	2659	CSIP-SUPF	CSID#2
377	14S02E09K02			5755450	2159946		14S/02E-0	MONTERE	610								PRESSURE	360	600	9	NULL	2746	CSIP-SUPF	CSID #4
383	14S02E15A01			5761775	2157016		14S/02E-1	MONTERE	623								PRESSURE	386	608	5P9849	924288	1055	CSIP-SUPF	1 OF 1:BO
391	14S02E01C01			5771478	2167454		14S/02E-0	MONTERE	591								EAST SIDE	350	591	65079T	924280	1715	CSIP-SUPF	1 OF 3:SE
392	14S02E14A01			5767367	2156210		14S/02E-1	MONTERE	532								PRESSURE	472	550	1044A7	924284	43	CSIP-SUPF	0
397	14S02E10H01			5761492	2160762		14S/02E-1	MONTERE	640								PRESSURE	440	640	R04093	910420	1704	CSIP-SUPF	1 OF 2:SE
398	14S02E11M03			5764449	2159267		14S/02E-1	MONTERE	660								PRESSURE	400	660	X43923	910418	1705	CSIP-SUPF	2 OF 2:SE
399	14S02E03H01			5762283	2166256		14S/02E-0	MONTERE	800								PRESSURE	350	800	5P2601	924279	1685	CSIP-SUPF	5 OF 7:SE
400	14S02E02C03			5765109	2167416		14S/02E-0	MONTERE	835								PRESSURE	393	832	625R92	924292	1716	CSIP-SUPF	1 OF 1:SE
401	14S02E02A02			5768561	2167824		14S/02E-0	MONTERE	810								EAST SIDE	360	810	1E+09	924274	1706	CSIP-SUPF	7 OF 7:SE
405	14S02E03R02			5762517	2163893		14S/02E-0	MONTERE	638								PRESSURE	552	572	5527R3	924882	944	CSIP-SUPF	2 OF 2:BO
414	14S02E04G02			5756262	2166404		14S/02E-0	MONTERE	620								PRESSURE	370	610	9	NULL	2698	CSIP-SUPF	CSID#5
415	14S02E16G01			5755957	2156000		14S/02E-1	MONTERE	610								PRESSURE	330	600	9	95603618	2699	CSIP-SUPF	NEW #4
430	14S02E14L03			5764611	2154420		14S/02E-1	MONTERE	612								PRESSURE	332	612	57891T	93105878	1460	CSIP-SUPF	1 OF 2
438	14S02E10E02			5758062	2160526		14S/02E-1	MONTERE	717								PRESSURE	298	660	64008T	910990	19	CSIP-SUPF	1 OF 1:FR
447	14S02E11B01			5766446	2162325		14S/02E-1	MONTERE	822								PRESSURE	466	546	93309T	924278	2437	CSIP-SUPF	11B01
527	13S02E15B03			5762799	2184839		13S/02E-1	MONTERE	205								MORO CO	150	200	NULL	NULL	21048	ACTIVE	13S/02E-1

Figure 19: Data Export Output