

5-022.06 SAN JOAQUIN VALLEY - MADERA

Basin Boundaries

Summary

The Madera groundwater subbasin is part of the larger San Joaquin groundwater basin. The subbasin is bounded to the north by a combination of PLS Section lines and water district boundaries, and to the east by the crystalline bedrock of the Sierra Nevada foothills. The southern boundary of the subbasin is delineated by the San Joaquin River. The Aliso Water District and the Columbia Canal Company boundaries define the western borders of the subbasin. The basin boundary is defined by seventeen (17) segments detailed in the descriptions below.

Segment Descriptions

<u>Segment Label</u>	<u>Segment Type</u>	<u>Description</u>	<u>Ref</u>
1-2	^I TRS	Starts at point (1) and follows the PLS section line to point (2).	{a}
2-3	^I Water Agency	Continues from point (2) and follows the northern boundary of the New Stone Water District to point (3).	{b}
3-4	^I TRS	Continues from point (3) and follows the PLS Section lines along the northern boundary of Section 4, then continues north along the western boundary of Section 34 and continues north to point (4).	{a}
4-5	^I Water Agency	Continues from point (4) and follows the Chowchilla Water District boundary to point (5).	{b}
5-6	^I TRS	Continues from point (5) and follows PLS Section lines to point (6).	{a}
6-7	^I City or Town	Continues from point (6) and follows Chowchilla City limits to point (7).	{c}
7-8	^I TRS	Continues from point (7) and follows PLS Section Lines to point (8).	{a}
8-9	^I Transportation	Continues from point (8) and follows Santa Fe Drive northwest to Avenue 26, then follows Avenue 26 east to point (9).	{d}
9-10	^I TRS	Continues from point (9) and follows the PLS Section lines to point (10).	{a}
10-11	^I County	Continues from point (10) and follows the Merced/Madera County east into the Mariposa/Madera County line to point (11).	{e}
11-12	^E Non-Alluvial	Continues from point (11) and generally follows the contact between the crystalline bedrock of the Sierra Nevada foothills and the valley alluvium to point (12).	{f}
12-13	^I Stream	Continues from point (12) and follows the San Joaquin River to point (13).	{g}
13-14	^I Water Agency	Continues from point (13) and follows the Aliso Water District boundary to point (14).	{b}
	^I		

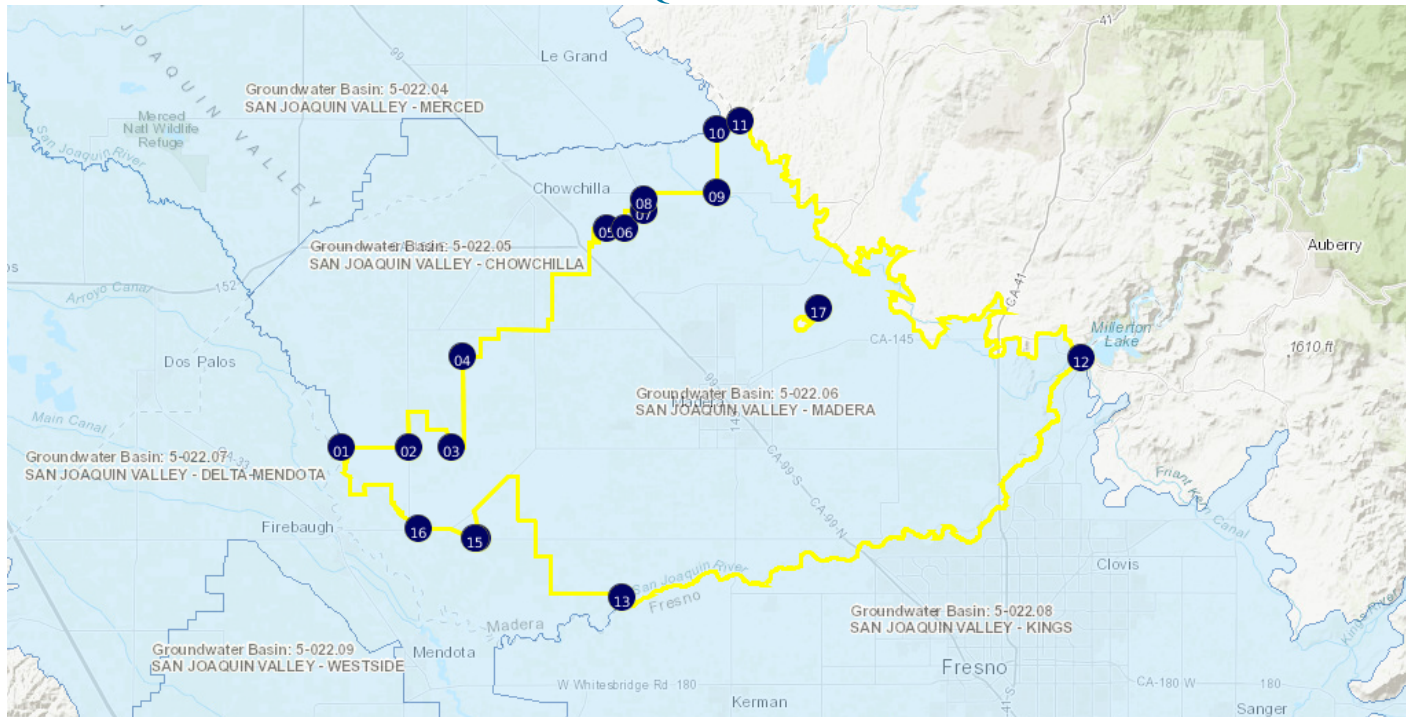
14-15	Transportation	Continues from (14) and follows Avenue 7 to point (15).	{d}
15-16	^I Water Agency	Continues from point (15) and follows Aliso Water District to point (16).	{b}
16-1	^I Water Agency	Continues from point (16) and follows the western boundary of the Columbia Canal Company and ends at point (1).	{b}
17-17	^E Lake	Starts at point (17) and generally follows the shoreline of Lake Madera then returns to point (17).	{g}

Significant Coordinates

<u>Point</u>	<u>Latitude</u>	<u>Longitude</u>
1	36.923395572	-120.449505685
2	36.923740462	-120.382406238
3	36.924100143	-120.33978145
4	36.996515835	-120.328417923
5	37.098157282	-120.184120426
6	37.098402645	-120.165777295
7	37.112440652	-120.147218381
8	37.121303277	-120.147219076
9	37.126767712	-120.074493589
10	37.176936119	-120.074847481
11	37.183857665	-120.051446156
12	36.994858019	-119.710091042
13	36.803907046	-120.169146673
14	36.851080042	-120.313487505
15	36.850989992	-120.316483746
16	36.858707437	-120.372712315
17	37.034919471	-119.972350893

Map

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<https://sgma.water.ca.gov/webgis/?appid=160718113212&subbasinid=5-022.06>

References

<u>Ref</u>	<u>Citation</u>	<u>Pub Date</u>	<u>Global ID</u>
{a}	Bureau of Land Management (BLM) California State Office (CASO), Public Land Survey System (PLSS), .URL: http://www.geocommunicator.gov/GeoComm/Isis_home/home/index.htm	2016	41
{b}	California Department of Water Resources (DWR), Water Agencies Dataset.URL: https://gis.water.ca.gov/app/bbat/	2016	48
{c}	California Department of Forestry and Fire Protection (Cal Fire), Incorporated Cities (INCORP16_1).URL: http://frap.fire.ca.gov/data/frapgisdata-sw-incorporated_download	6/22/16	52
{d}	Open Street Maps, Roads and Railroads data.URL: http://www.openstreetmap.org/	9/9/16	47
{e}	California Department of Forestry and Fire Protection (Cal Fire), California Counties and Paired Dataset (cnty15_1).URL: http://frap.fire.ca.gov/data/frapgisdata-subset	2/14/15	2
{f}	California Geological Survey (CGS), Regional Geologic Map No. 5A, San Francisco-San Jose Quadrangle, 1:250,000, D.L. Wagner, E.J. Bortugno, and R.D. McJunkin.URL: http://www.quake.ca.gov/gmaps/RGM/sfsj/sfsj.html	1991	8
{g}	United States Geological Survey (USGS), National Hydrography Dataset, Flowline Dataset for California, note: Coordinated effort among the United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS), the United States Geological Survey (USGS), and the Environmental Protection Agency (EPA).URL: http://nhd.usgs.gov/data.html	2/1/2016	1

Footnotes

- I: Internal
- E: External