

5-022.17 SAN JOAQUIN VALLEY - KETTLEMAN PLAIN

Basin Boundaries

Summary

The Kettleman Plain Subbasin is located in the southwestern portion of Kings County and overlies a portion of northwest Kern County. The Subbasin is comprised of the two parallel northwest trending alluvial plains of Kettleman Plain and Sunflower Valley. Kettleman Plain and Sunflower Valley are connected through a narrow strip of alluvium through the Dagany Gap, just south of the Kings-Kern county line. The northwestern border consists of a small portion of the Fresno-Kings county line. The eastern border is the geologic boundary between the Kettleman Plain alluvium and the Pliocene-Pleistocene sandstone and shales of the Kettleman Hills and South Dome, until it reaches the southern boundary of the Devil's Den Water District. The southern boundary is comprised of the border between the Sunflower Valley alluvium and the sandstone and shale of the surround Coast Range. The basin boundary is defined by six (6) segments detailed in the descriptions below.

Segment Descriptions

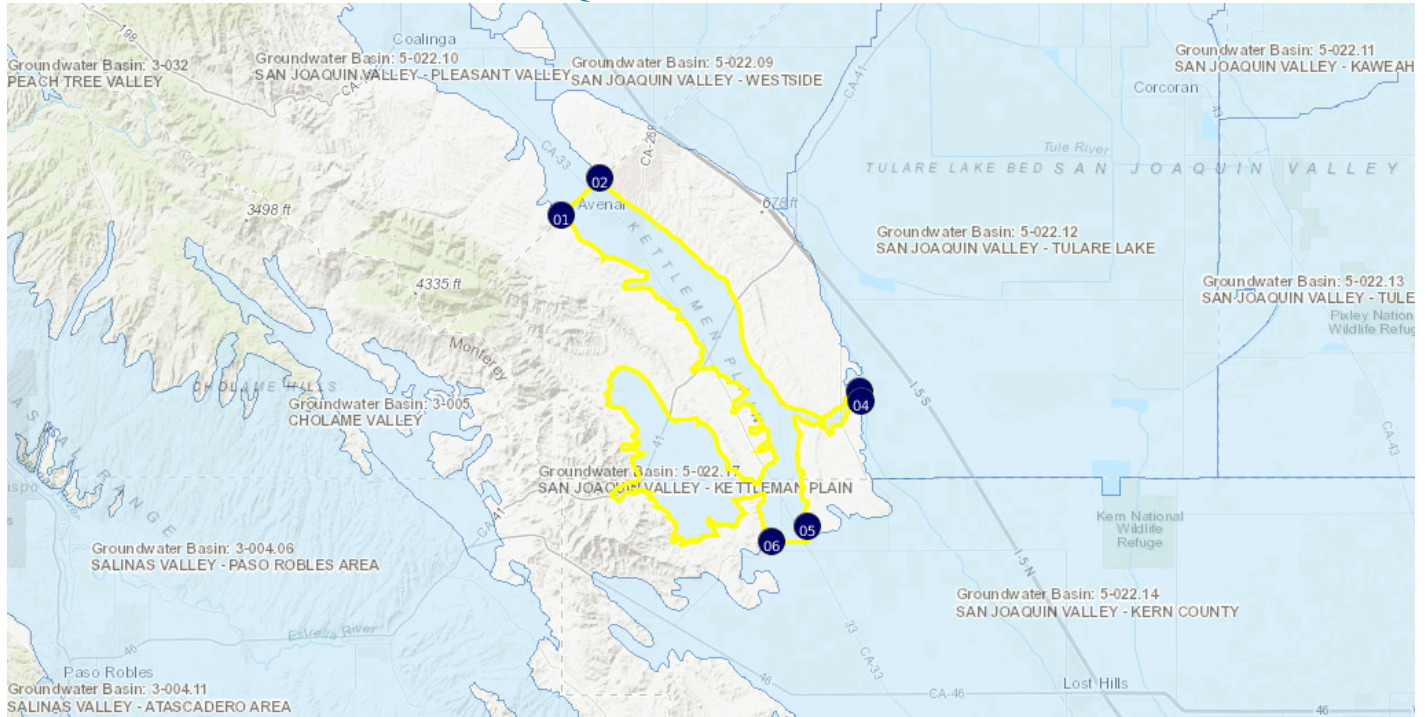
<u>Segment Label</u>	<u>Segment Type</u>	<u>Description</u>	<u>Ref</u>
1-2	^I County	Begins from point (1) and follows the Fresno-Kings county line to point (2).	{a}
2-3	^E Alluvial	Continues from point (2) and follows the boundary between the Pleistocene-Holocene alluvium and the Pliocene-Pleistocene sandstone to point (3).	{b}
3-4	^I Unknown	Continues from point (3) and follows a straight line path directly south across the alluvium to the boundary line between the Pliocene and/or Pleistocene sandstone and the Pliocene sandstone to point (4).	{b}
4-5	^E Alluvial	Continues from point (4) and follows the boundary between the Pliocene and/or Pleistocene sandstone and the alluvium to point (5).	{b}
5-6	^I Water Agency	Continues from point (5) and follows the Devils Den Water District boundary to point (6).	{c}
6-1	^E Non-Alluvial	Continues from point (6) and generally follows the boundary between the alluvium and the Cretaceous, Miocene, and/or sandstone/shale geologic deposits and ends at point (1).	{b}

Significant Coordinates

<u>Point</u>	<u>Latitude</u>	<u>Longitude</u>	
1	36.002522442	-120.19256856	
2	36.031778131	-120.154444411	
3	35.859926117	-119.895005168	
4	35.85145351	-119.894427754	
5	35.750071935	-119.948033079	
6	35.738741811	-119.982451899	

Map

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<https://sgma.water.ca.gov/webgis/?appid=160718113212&subbasinid=5-022.17>

References

<u>Ref</u>	<u>Citation</u>	<u>Pub Date</u>	<u>Global ID</u>
{a}	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
{b}	California Geological Survey (CGS), Geologic Map of California, Geologic Data Map No. 2, C. W. Jennings, C. Gutierrez, W. Bryant, G. Saucedo, and C. Wills.URL: http://maps.conservation.ca.gov/cgs/gmc/	2010	43
{c}	California Department of Water Resources (DWR), Water Agencies Dataset.URL: https://gis.water.ca.gov/app/bbat/	2016	48

Footnotes

- I: Internal
- E: External