

Potrero Valley Groundwater Basin

- Groundwater Basin Number: 9-29
- County: San Diego
- Surface Area: 2,020 acres (3.2 square miles)

Basin Boundaries and Hydrology

This basin underlies a small valley approximately 30 miles inland from San Diego about 2 miles north of the International border with Mexico. The basin is bounded by impermeable crystalline rocks of the Penninsular Ranges (Strand 1962; DWR 1967). Average annual precipitation ranges from 7 to 11 inches. The valley is drained westward by Potrero and Big Potrero Creeks (Ellis and Lee 1919).

Hydrogeologic Information

Water Bearing Formations

The principal water bearing deposits are Quaternary age alluvium and residuum (DWR 1967).

Recharge Areas

Recharge of this basin is likely from percolation of ephemeral stream flow.

Groundwater Level Trends

Unknown.

Groundwater Storage

Groundwater Storage Capacity. Unknown.

Groundwater in Storage. Unknown.

Groundwater Budget (Type C)

Not enough information is available to construct a budget.

Groundwater Quality

Characterization. Water character is variable, with calcium and sodium as the dominant cations and bicarbonate and chloride as the dominant anions (DWR 1967). TDS content ranges from 283 to 305 mg/L, and groundwater is designated as suitable for domestic and irrigation use (DWR 1967).

Impairments.

Well Characteristics

Well yields (gal/min)		
Municipal/Irrigation	Range:	Average:
Total depths (ft)		
Domestic	Range:	Average:
Municipal/Irrigation	Range:	Average:

Active Monitoring Data

Agency	Parameter	Number of wells / measurement frequency
	Groundwater levels	
	Miscellaneous water quality	
Department of Health Services and cooperators	Title 22 water quality	4

Basin Management

Groundwater management:

Water agencies

Public

Private

References Cited

- California Department of Water Resources (DWR). 1967. *Ground Water Occurrence and Quality: San Diego Region*. Bulletin No. 106-2. 235 p.
- Ellis, A. J., and C. H. Lee. 1919. *Geology and ground waters of the western part of San Diego County, California*. U.S. Geological Survey Water Supply Paper 446. 321 p.
- Strand, Rudolf. 1962. *Geologic Map of California, San Diego-El Centro Sheet*. Olaf P. Jenkins Edition. California Department of Conservation, Division of Mines and Geology. Scale 1:250,000.

Errata

Changes made to the basin description will be noted here.