

## Escondido Valley Groundwater Basin

- Groundwater Basin Number: 9-9
- County: San Diego
- Surface Area: 2,890 acres (4.5 square miles)

### Basin Boundaries and Hydrology

The Escondido Valley Groundwater Basin underlies a northeast trending valley drained by Escondido Creek located in central San Diego County. The contact of residuum with impermeable Cretaceous granitic rocks and pre-Cretaceous metamorphic rocks bound the basin. Average annual precipitation ranges from 11 to 15 inches.

### Hydrogeologic Information

#### *Water Bearing Formations*

The primary water-bearing deposits include Quaternary age alluvium and residuum. Quaternary alluvium is confined to the course of Escondido Creek and is probably not thick enough to be water bearing. Groundwater production in this basin is largely from residuum, however many wells extract groundwater from fractures in the underlying crystalline rocks (DWR 1967). Groundwater is generally found at less than 50 feet in depth (DWR 1967).

#### *Groundwater Level Trends*

Not determined.

#### *Groundwater Storage*

**Groundwater Storage Capacity.** The estimated total storage capacity is 24,000 af (DWR 1975).

**Groundwater in Storage.** Unknown

#### *Groundwater Budget (Type C)*

Not enough information is available to construct a budget.

#### *Groundwater Quality*

**Characterization.** Groundwater in this basin is generally sodium chloride in type, with subordinate amounts of magnesium, calcium, bicarbonate, and nitrate ions (DWR 1967). TDS content ranges from 250 to more than 5,000 mg/L (DWR 1967).

**Impairments.** Local sources of groundwater in this basin are categorized as suitable to inferior for domestic use. The water categorized as inferior typically contains high nitrate, TDS, or sulfate content (DWR 1967).

## Well Characteristics

Well yields (gal/min)		
Municipal/Irrigation	Range: max = 190 gal/min	Average: 50 gal/min. (DWR 1975)
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	1

## 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 106-2. 233 p.

\_\_\_\_\_. 1975. *California's Ground Water*. Bulletin 118. 135 p.

## Errata

Substantive changes made to the basin description will be noted here.