

## Burney Creek Valley Groundwater Basin

- Groundwater Basin Number: 5-48
- County: Shasta
- Surface Area: 2,350 acres (4 square miles)

### Basin Boundary and Hydrology

The Burney Creek Valley Groundwater Basin consists of Quaternary lake deposits bounded to the west by north trending faults. The basin is bounded on all sides by Pleistocene basalt (Gay 1958). Burney Creek drains the valley to the north. Annual precipitation is approximately 27 inches.

### Hydrogeologic Information

Hydrogeologic information was not available for the following:

***Water-Bearing Formations***

***Groundwater Level Trends***

***Groundwater Storage***

### ***Groundwater Budget (Type B)***

The estimate of groundwater extraction for Burney Creek Valley Basin is based on a 1995 survey conducted by the California Department of Water Resources. The survey included land use and sources of water.

Groundwater extraction for municipal and industrial uses is estimated to be 790 acre-feet. Deep percolation of applied water is estimated to be 490 acre-feet.

### ***Groundwater Quality***

#### **Water Quality in Public Supply Wells**

Constituent Group <sup>1</sup>	Number of wells sampled <sup>2</sup>	Number of wells with a concentration above an MCL <sup>3</sup>
Inorganics – Primary	0	0
Radiological	0	0
Nitrates	1	0
Pesticides	0	0
VOCs and SVOCs	0	0
Inorganics – Secondary	0	0

<sup>1</sup> A description of each member in the constituent groups and a generalized discussion of the relevance of these groups are included in *California's Groundwater – Bulletin 118* by DWR (2003).

<sup>2</sup> Represents distinct number of wells sampled as required under DHS Title 22 program from 1994 through 2000.

<sup>3</sup> Each well reported with a concentration above an MCL was confirmed with a second detection above an MCL. This information is intended as an indicator of the types of activities that cause contamination in a given basin. It represents the water quality at the sample location. It does not indicate the water quality delivered to the consumer. More detailed drinking water quality information can be obtained from the local water purveyor and its annual Consumer Confidence Report.

## Well Characteristics

Well yields (gal/min)		
Municipal/Irrigation	NKD	
Total depths (ft)		
Domestic	Range: 55 – 395	Average: 205 (23 Well Completion Reports)
Municipal/Irrigation	Range: 181 – 408	Average: 295 (2 Well Completion Reports)
NKD – No Known Data		

## Active Monitoring Data

Agency	Parameter	Number of wells /measurement frequency
	Groundwater levels	NKD
	Miscellaneous water quality	NKD
Department of Health Services	Miscellaneous water quality	2
NKD - No Known Data		

## Basin Management

Groundwater management:	Shasta County adopted a groundwater management ordinance in 1998.
Water agencies	
Public	Burney WD
Private	

## Selected Reference

Gay Jr. TE and Aune QA. 1958. Geologic Map of California [Westwood Sheet]. California Division of Mines and Geology.

## Bibliography

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## Errata

Changes made to the basin description will be noted here.