



Water-Data Report 2007

385142119111301 Local number 108 N12 E25 33ACBD1

Basin and Range basin-fill aquifers
 Undefined Aquifer
 Lyon County, NV

LOCATION.--Lat 38°51'44.9", long 119°11'21.1" referenced to North American Datum of 1983, in NW ¼ SW ¼ NE ¼ sec.33, T.12 N., R.25 E., Lyon County, NV, Hydrologic Unit 16050303.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 68 ft. Upper casing diameter 6. in, top of first opening 46 ft, bottom of last opening 68 ft.

DATUM.--Land-surface datum is 4491 ft above National Geodetic Vertical Datum of 1929. Measuring point: Hole in pump base southeast corner of large 1-in port with bolt, 0.4 ft above land-surface datum, Dec. 28, 1981, to present.

REMARKS.--Walker Lake is a perennial, natural terminal lake that became at-risk because of upstream agricultural diversions. Between 1882 and 1994, upstream diversions caused Walker Lake to decline about 140 feet and the total dissolved solids (TDS) concentrations to increase from 2,500 mg/L to 13,300 mg/L. The Lahontan cutthroat trout (LCT), a threatened species that is native to Walker Lake, has adapted to the high TDS of terminal basins. However, diversions have lowered lake levels and increased TDS to concentrations that threaten the survival of the LCT. The objectives of this project are to develop (1) an improved water budget for Walker Lake and (2) the capability to predict how changes in irrigation practices in and below Mason Valley will affect flows in the lower Walker River so alternatives for supplementing flows can be evaluated.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM

[Measurement method: T, electric tape. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Nov 28, 2006	22.46	T	--	Dec 4, 2006	23.30	T	--

Highest: 22.46 Nov 28, 2006

Lowest: 23.30 Dec 04, 2006