



Water-Data Report NV-2005

**385929119065901 Local number 108 N13 E26 18ACCB1**

Basin and Range basin-fill aquifers

Lyon County, NV

LOCATION.--Lat 38°59'29.4", long 119°06'59.2" referenced to North American Datum of 1983, in SW ¼ SW ¼ NE ¼ sec.18, T.13 N., R.26 E., Lyon County, Hydrologic Unit 16050303.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Depth undefined. Upper casing diameter undefined; top of first opening undefined, bottom of last opening undefined.

WELL USE.--Withdrawal well.

DATUM.--Land-surface datum is 4370 ft above National Geodetic Vertical Datum of 1929. Measuring point: 1-in pcv tube on south west corner of pad, -0.3 ft below land-surface datum.

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	Measurement method	Water level status
Nov 15, 2004	23.20	T	--
Feb 24, 2005	20.80	T	--

Highest: 20.80 Feb 24, 2005

Lowest: 23.20 Nov 15, 2004