



Water-Data Report 2008

385908118453202 Local number 110A N13 E29 17DDBB2

Basin and Range basin-fill aquifers
 Valley-Fill Deposits
 Mineral County, NV

LOCATION.--Lat 38°59'08.0", long 118°45'32.1" referenced to North American Datum of 1983, in NW ¼ SE ¼ SE ¼ sec.17, T.13 N., R.29 E., Mineral County, NV, Hydrologic Unit 16050303.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 160 ft. Upper casing diameter 2. in; top of first opening 140 ft, bottom of last opening 160 ft.

DATUM.--Land-surface datum is 4166 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of pvc casing, 0.25 ft above land-surface datum, Mar. 29, 2007, to present; Top of pvc casing, 0.25 ft above land-surface datum, Mar. 19, 2007, 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
Oct 29, 2007	73.97	T	--	May 13, 2008	74.13	T	--
Nov 13	74.05	T	--	Jun 26	74.07	T	--
Dec 13	73.81	T	--	Jul 22	74.02	T	--
Feb 19, 2008	74.00	T	--	Aug 27	74.41	T	--
Apr 7	74.06	T	--	Sep 29	74.10	T	--

Highest: 73.81 Dec 13, 2007

Lowest: 74.41 Aug 27, 2008