



Water-Data Report 2008

390527118581901 Local number 110A N12 E29 05BBBD1

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

LOCATION.--Lat 39°05'51.5", long 118°58'20.7" referenced to North American Datum of 1983, in NW ¼ NE ¼ NE ¼ sec.9, T.14 N., R.27 E., Lyon County, NV, Hydrologic Unit 16050303.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 62 ft. Upper casing diameter 1.5 in; top of first opening undefined, bottom of last opening undefined.

DATUM.--Land-surface datum is 4276 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of steel casing, 4.5 ft above land-surface datum, Dec. 14, 2004, 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	48.47	T	--	May 13, 2008	48.78	T	--
Nov 13	48.50	T	--	Jul 22	48.97	T	--
Dec 13	48.56	T	--	Aug 27	48.90	T	--
Feb 19, 2008	48.68	T	--	Sep 29	48.96	T	--
Apr 7	48.73	T	--				

Highest: 48.47 Oct 29, 2007

Lowest: 48.97 Jul 22, 2008