



Water-Data Report 2012

383440118365001 Local number 110C N08 E30 03DDA 1

Basin and Range basin-fill aquifers
Valley Fill

Mineral County, NV

LOCATION.--Lat 38°34'41.3", long 118°36'47.5" referenced to North American Datum of 1983, in NE ¼ SE ¼ SE ¼ sec.3, T.8 N., R.30 E., Mineral County, NV, Hydrologic Unit 16050304.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 850 ft. Upper casing diameter 18. in; top of first opening 441 ft, bottom of last opening 696 ft.

DATUM.--Land-surface datum is 4,123 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of access port, west side, 0.35 ft above land-surface datum, April 24, 1997, 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; R, site had been pumped recently.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Dec 7, 2011	64.66	T	--	May 2, 2012	82.30	T	R
Jan 11, 2012	62.70	T	--	Jun 14	92.18	T	R
Feb 7	62.53	T	--	Jul 5	66.35	T	--
Mar 19	62.49	T	--	Aug 7	77.67	T	R
Apr 11	64.47	T	--	Sep 6	64.35	T	--
12	71.65	T	R				

Highest: 62.49, Mar 19, 2012

Lowest: 66.35, Jul 5, 2012