

Water-Data Report 2013

385840118500101 Local number 110A N13 E28 22ADBC1

Basin and Range basin-fill aquifers
Undefined Aquifer

Mineral County, NV

LOCATION.--Lat 38°58'40.4", long 118°50'01.1" referenced to North American Datum of 1983, in NW ¼ SE ¼ NE ¼ sec.22, T.13 N., R.28 E., Mineral County, NV, Hydrologic Unit 16050303.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 60 ft. Upper casing diameter 6.63 in; top of first opening 52 ft, bottom of last opening 60 ft.

DATUM.--Land-surface datum is 4,135 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.8 ft above land-surface datum, Dec. 16, 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 2, 2012	13.00	T	--	Apr 24, 2013	14.84	T	--
Dec 5	14.42	T	--	Jun 4	14.22	T	--
Jan 4, 2013	14.85	T	--	26	13.58	T	--
Feb 1	15.22	T	--	Aug 6	13.12	T	--
21	15.48	T	--	Sep 4	13.24	T	--

Highest: 13.00, Oct 2, 2012

Lowest: 15.48, Feb 21, 2013