



Water-Data Report 2007

385857119194601 Local number 107 N13 E24 19AAAD1

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

LOCATION.--Lat 38°58'56.6", long 119°19'46.5" referenced to North American Datum of 1983, in NE ¼ NE ¼ NE ¼ sec.19, T.13 N., R.24 E., Lyon County, NV, Hydrologic Unit 16050302.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 170 ft. Upper casing diameter 10. in, top of first opening 96 ft, bottom of last opening 170 ft.

DATUM.--Land-surface datum is 4720 ft above National Geodetic Vertical Datum of 1929. Measuring point: Lower side of 2-in access pipe above land surface datum, 2.7 ft above land-surface datum, Mar. 10, 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	Measurement method	Water-level status
Nov 15, 2006	120.42	T	--