Data on Ground-Water Quality in the Carson River Basin, Western Nevada and Eastern California, 1987-90

By Rita Whitney

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
foot (ft)	0.3048	meter
inch (in.)	25.4	millimeter
mile (mi)	1.609	kilometer
square mile (mi^2)	2.590	square kilometer

Temperature: Degrees Celsius (°C) can be converted to degrees Fahrenheit (°F) by using the formula °F = [1.8(°C)]+32. Degrees Fahrenheit can be converted to degrees Celsius by using the formula °C = 0.556(°F-32).

Sea level: In this report, "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929, formerly called "Sea-Level Datum of 1929"), which is derived from a general adjustment of the first-order leveling networks of the United States and Canada.

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ABSTRACT

The U.S. Geological Survey collected and analyzed water samples from June 1987 through February 1990 as part of a study of the ground-water quality in the Carson River Basin. The Carson River Basin is one of seven national pilot projects conducted by the Geological Survey as part of a National Water-Quality Assessment Program. The data from the sampling program include analyses of 110 constituents and properties of ground water in 400 separate samplings of 230 domestic, public-supply, irrigation, and shallow monitoring wells and one spring. The water-quality data include field measurements, major constituents, nutrients, minor constituents, radionuclides, stable isotopes, and synthetic organic compounds.

INTRODUCTION

Background

In 1986, Congress appropriated funds for the U.S. Geological Survey (USGS) to begin a pilot program to investigate and assess regional water quality. The purpose of this pilot program was to test and refine concepts for a possible full-scale National Water-Quality Assessment Project (NAWQA) that would provide a consistent description of the status and current trends in water quality across the Nation, as well as provide insight into the major human and natural factors that control water quality in different regions (Hirsch and others, 1988). The NAWQA pilot projects consist of seven study areas selected on the basis of known hydrologic units, such as major river basins and aquifer systems. Four of the pilot projects were for surface-water-quality investigations and three were for evaluation of ground-water quality.

The Carson River Basin in western Nevada and eastern California was selected for one of the ground-water pilot projects. The objectives of this NAWQA project were to investigate the regional ground-water quality, describe the relation of ground-water quality to land use, evaluate the hydrogeology and geochemistry of the Carson River Basin, and develop new techniques for characterizing regional ground-water quality (Welch and Plume, 1987). As part of this project, water from 230 ground-water sites was sampled and analyzed for a wide range of water-quality constituents.

The study area includes 3,980 mi^2 in the north-eastern Sierra Nevada and the western Great Basin. Most of the Carson River Basin is in western Nevada, and a small area is in eastern California (fig. 1). For the purpose of this report, data for the basin's five hydrographic areas, designated by the State Engineer's office (Rush, 1968), were grouped into four geographic areas according to similarities in geology, climate, and water quality. Data for the extreme western part of the Dayton Valley hydrographic area adjacent to, but west of, the Carson River were included with data for Eagle Valley. The area in eastern California, referred to as the Headwaters Area, was not sampled for this project and is not included in these groupings. The four geographic areas, in downstream order are Carson Valley, Eagle Valley, Dayton and Churchill Valleys, and the Carson Desert. The Carson River flows through all the hydrographic areas except Eagle Valley, and terminates in the Carson Desert. The terminus of the hydrologic system includes Carson Lake and Carson Sink.

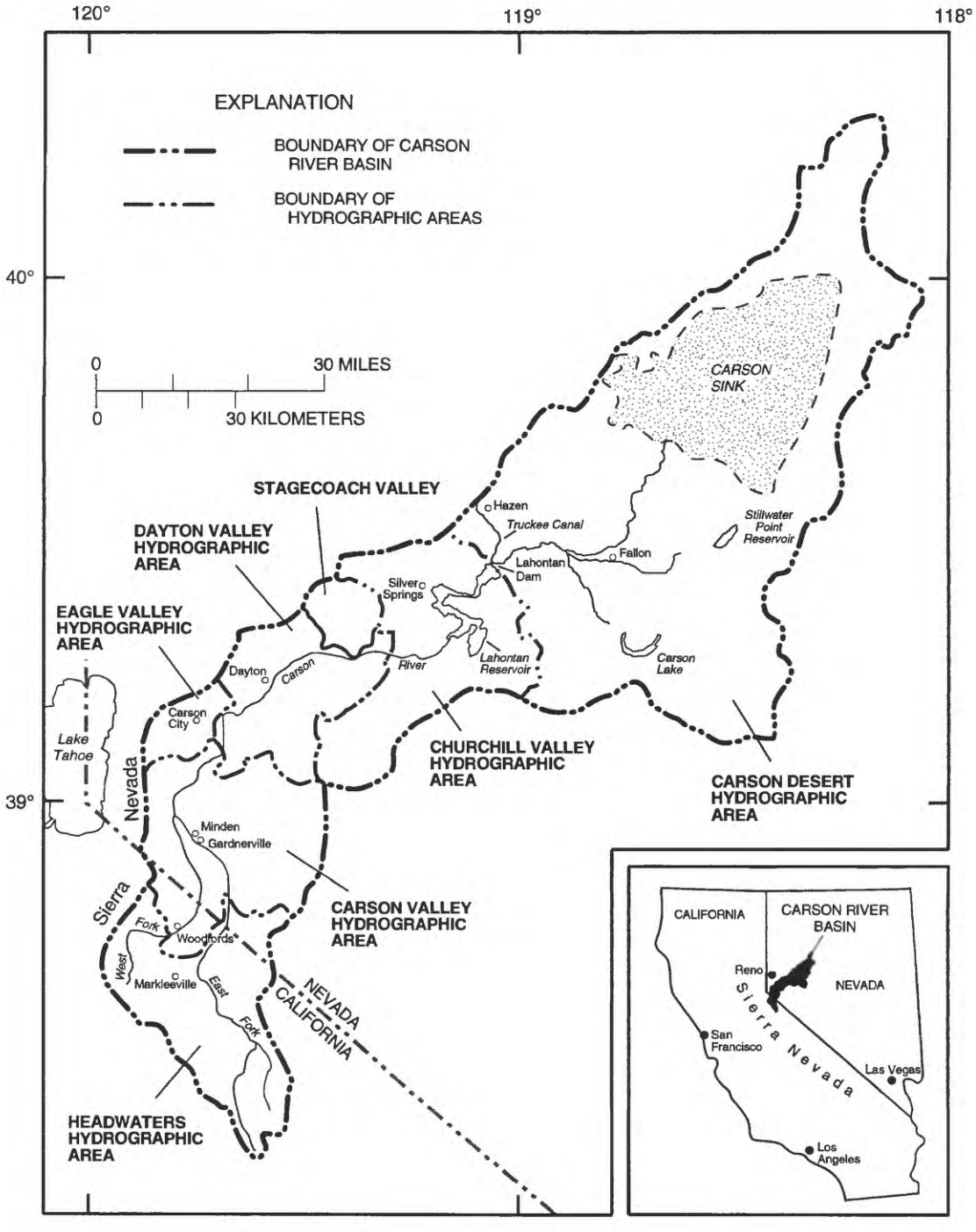


Figure 1. Carson River Basin.

The Sierra Nevada, at the extreme western edge of the study area, has the highest altitudes and the most precipitation in the study area. This range generally receives 20-40 in/yr, predominantly from winter snow. The Carson Desert hydrographic area receives an average rainfall of about 8 in/yr (Glancy and Katzer, 1976, p. 48) because of the rain-shadow effect that limits precipitation east of the Sierra Nevada. The desert floor, however, receives only about 5 in/yr (Hoffman and others, 1990). Summer thunderstorms occur throughout the Carson River Basin and contribute much less precipitation than the winter storms. Temperatures are generally mild throughout the year, with averages in Carson City of 39.92°F in January, and 67.1°F in July.

The hydrographic areas are characterized by partly filled alluvial valleys surrounded by mountains that range from about 6,000 to 11,000 ft in altitude. The mountains are flanked by alluvial fans that merge onto the valley floors and floodplains of the Carson River Basin. Floodplains in Carson and Eagle Valleys are several miles wide, compared to less than 1 mi in most of Dayton Valley.

Carson Valley hydrographic area is about 420 mi^2 in the southwest part of the basin (fig. 2), with the Carson Range to the west and the Pine Nut Mountains to the east. Towards the south, the East and West Forks of the Carson River enter the valley from the Headwaters Area. The two forks join near the west edge of the valley floor, about 3 mi northwest of Minden. Carson Valley, historically an agricultural area, is undergoing an increase in commercial and residential growth (Welch and others, 1989). Minden and Gardnerville are two communities in the south-central part of the valley.

Eagle Valley is the smallest hydrographic area of the Carson River Basin and includes about 71 mi^2. The valley is bounded to the west by the Carson Range, to the north by the Virginia Range, and to the east by Prison Hill. The Carson River flows south and east of Eagle Valley. Three smaller streams, Ash Canyon Creek, Kings Canyon Creek, and Clear Creek, originate in the Carson Range and flow eastward across Eagle Valley (fig. 3). The Riverview area is a small floodplain on the east side of Eagle Valley, formally classified as part of the Dayton Valley hydrographic area. However, in this report, data for the Riverview area are included with data for the Eagle Valley hydrographic area. Carson City is the only population center in Eagle Valley, and has approximately 41,000 residents (Maud Naroll, University of Nevada, Reno, Bureau of Business and Economic Research, oral commun., 1991). Land use is primarily residential, with some light industry.

The Dayton Valley and Churchill Valley hydrographic areas are in the east-central part of the basin. These basins were combined in this report because of sparse population and similar topography, geology, and water quality (fig. 4). The Dayton Valley hydrographic area, which includes Dayton and Stagecoach Valleys, is bounded to the north by the Virginia Range and to the south by the Pine Nut Mountains, and has an area of approximately 367 mi^2. Dayton is a small, but rapidly growing, town in western Dayton Valley. The Churchill Valley hydrographic area is bounded to the north by the Virginia Range, to the east by the Dead Camel Mountains, and to the south by the Desert Mountains, and includes approximately 486 mi^2 (fig. 4*B*). The Carson River flows south of Churchill Butte, from the west side of the valley. The Churchill Valley floodplain is largely occupied by Lahontan Reservoir, which was created as part of the 1902 Bureau of Reclamation Newlands Irrigation Project.

The Carson Desert is the largest of the hydrographic areas and is about 70 mi long and 25 mi wide (fig. 5). The northeast part contains the Carson Sink, the terminus of the Carson River. The area is bounded to the northwest by the Hot Springs Mountains and the West Humboldt Range, to the south by the Desert Mountains, and to the east by the Stillwater Range. The Carson River flows from Lahontan Reservoir to Carson Desert through a network of irrigation canals and open drains built as part of the Newlands Irrigation Project. Water from irrigation return flow drains southward to Carson Lake and northeastward to Stillwater Marsh and the Carson Sink. Land use is primarily agricultural in the southern Carson Desert. The city of Fallon, in the west-central part of the basin, has a population of about 6,400 residents (Maud Naroll, University of Nevada, Reno, Bureau of Business and Economic Research, oral commun., 1990).

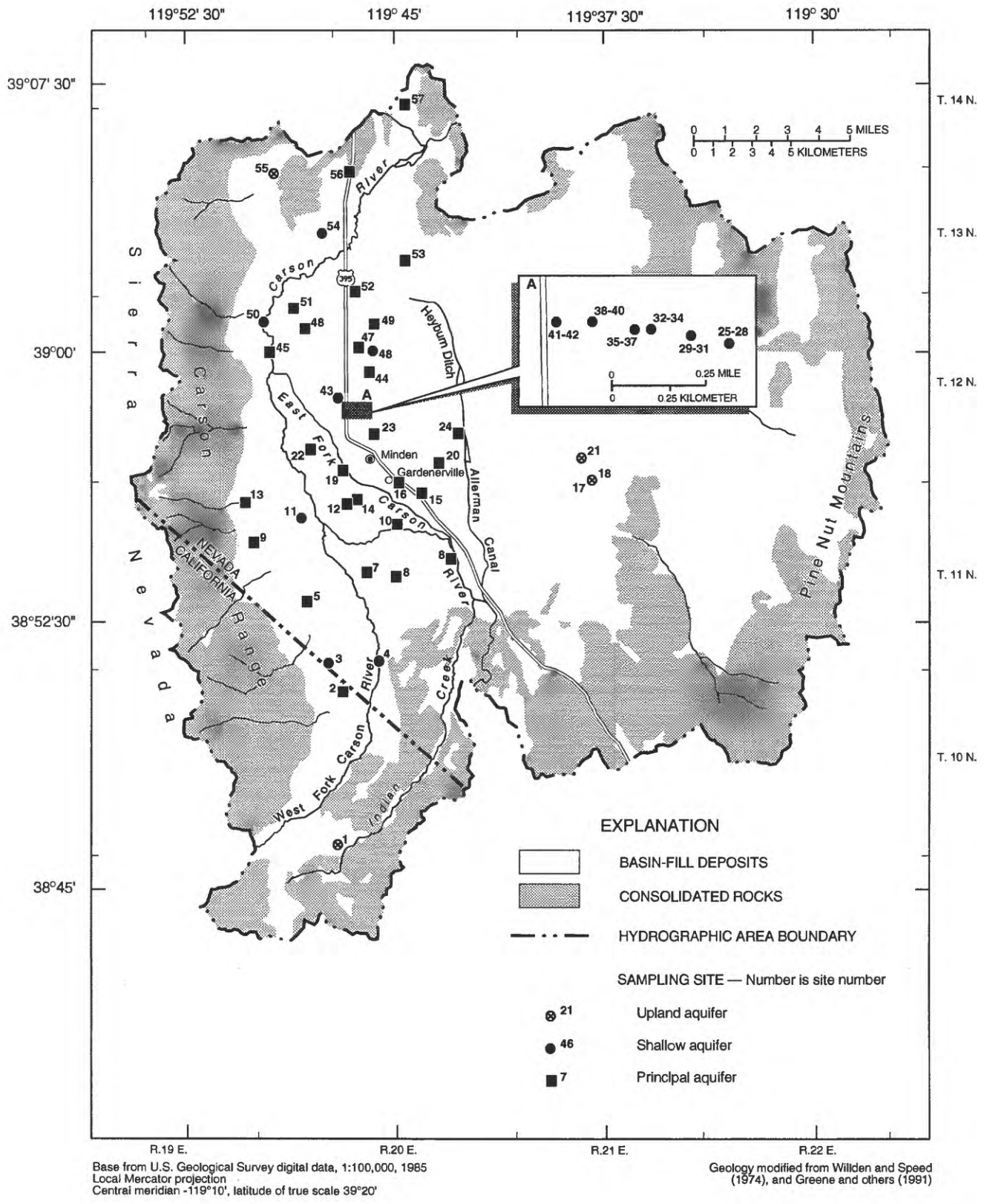


Figure 2. Ground-water sampling sites in Carson Valley. Inset (A) is transect north of Minden.

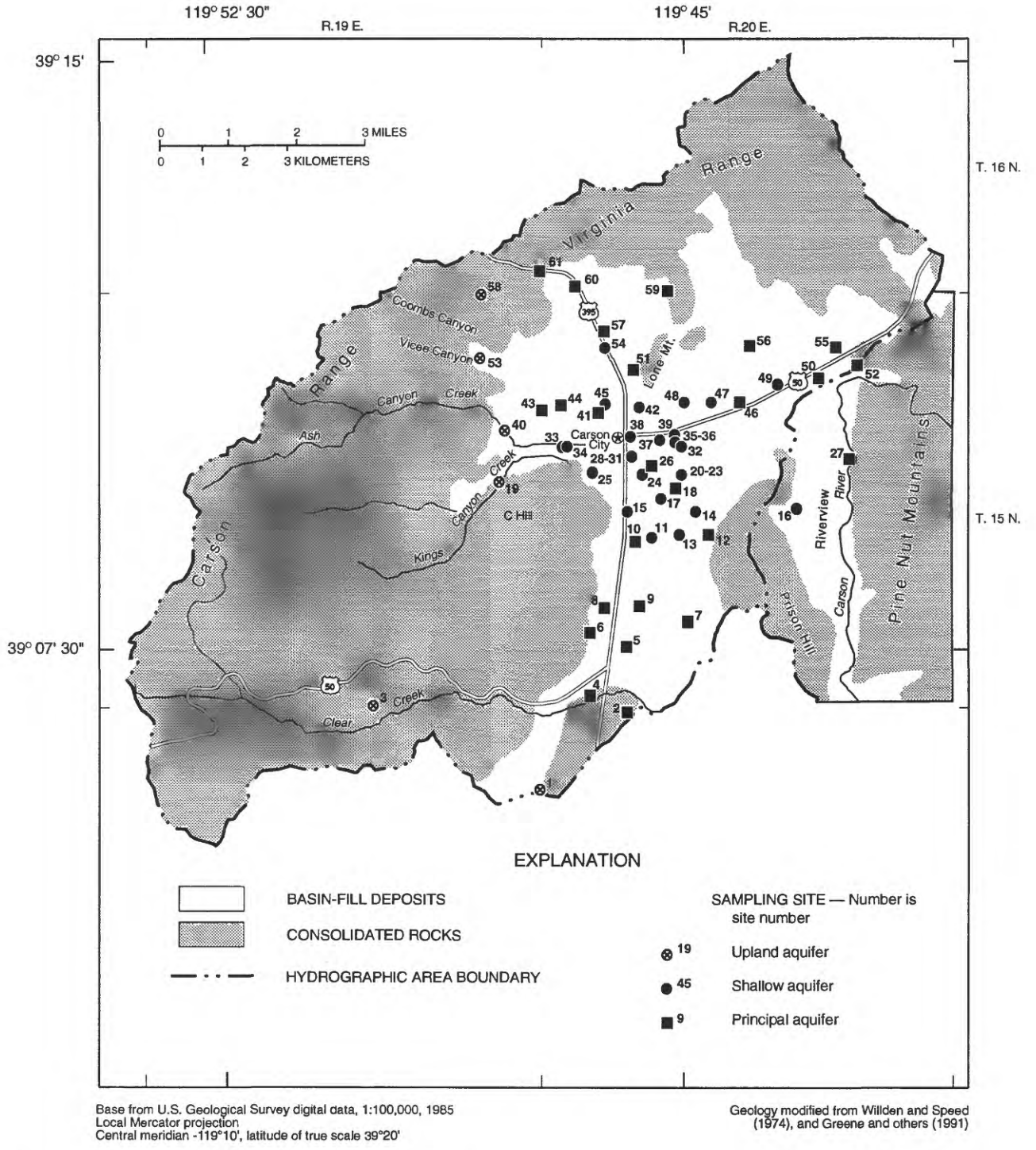


Figure 3. Ground-water sampling sites in Eagle Valley.

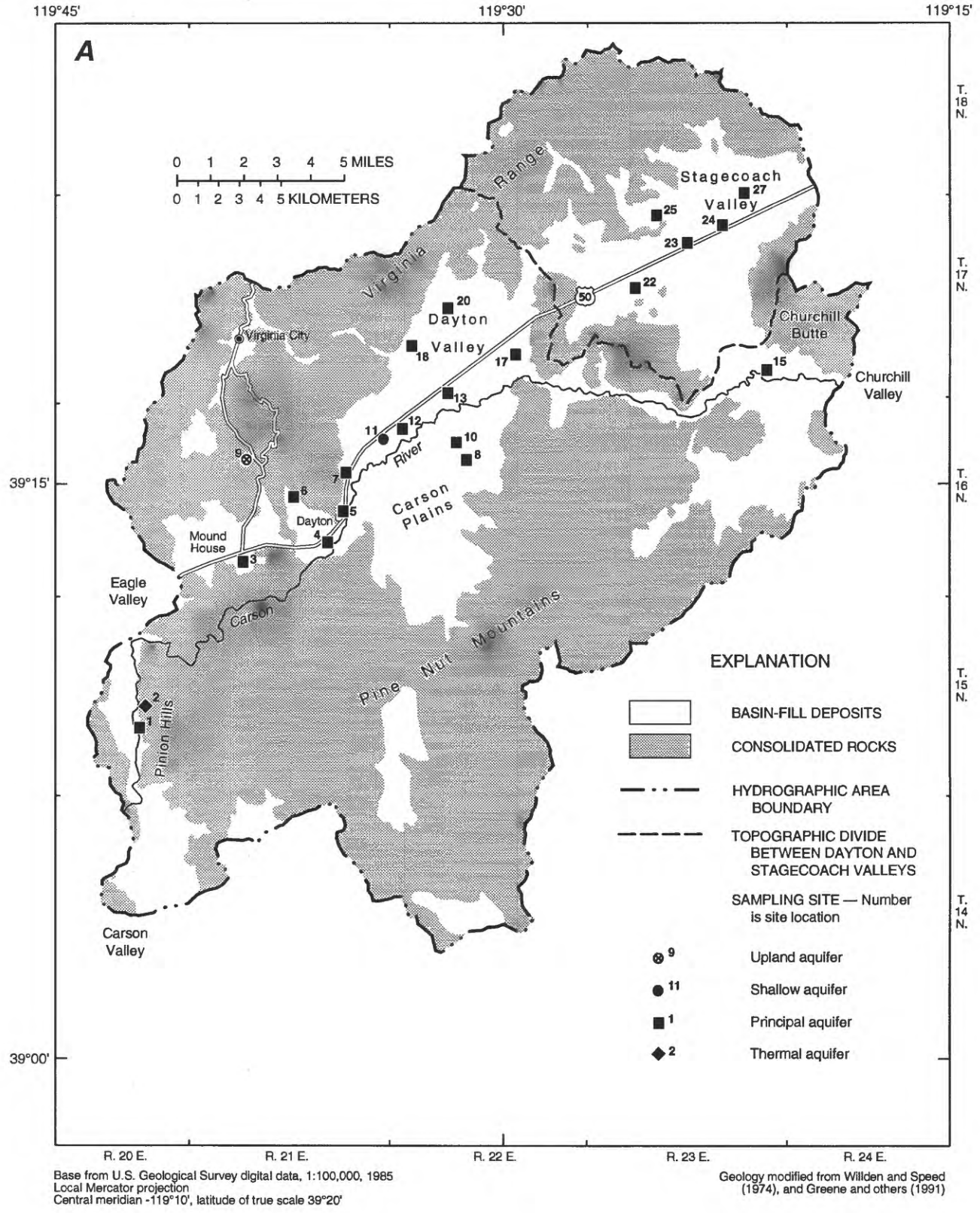


Figure 4. Ground-water sampling sites in (*A*) Dayton and (*B*) Churchill Valleys

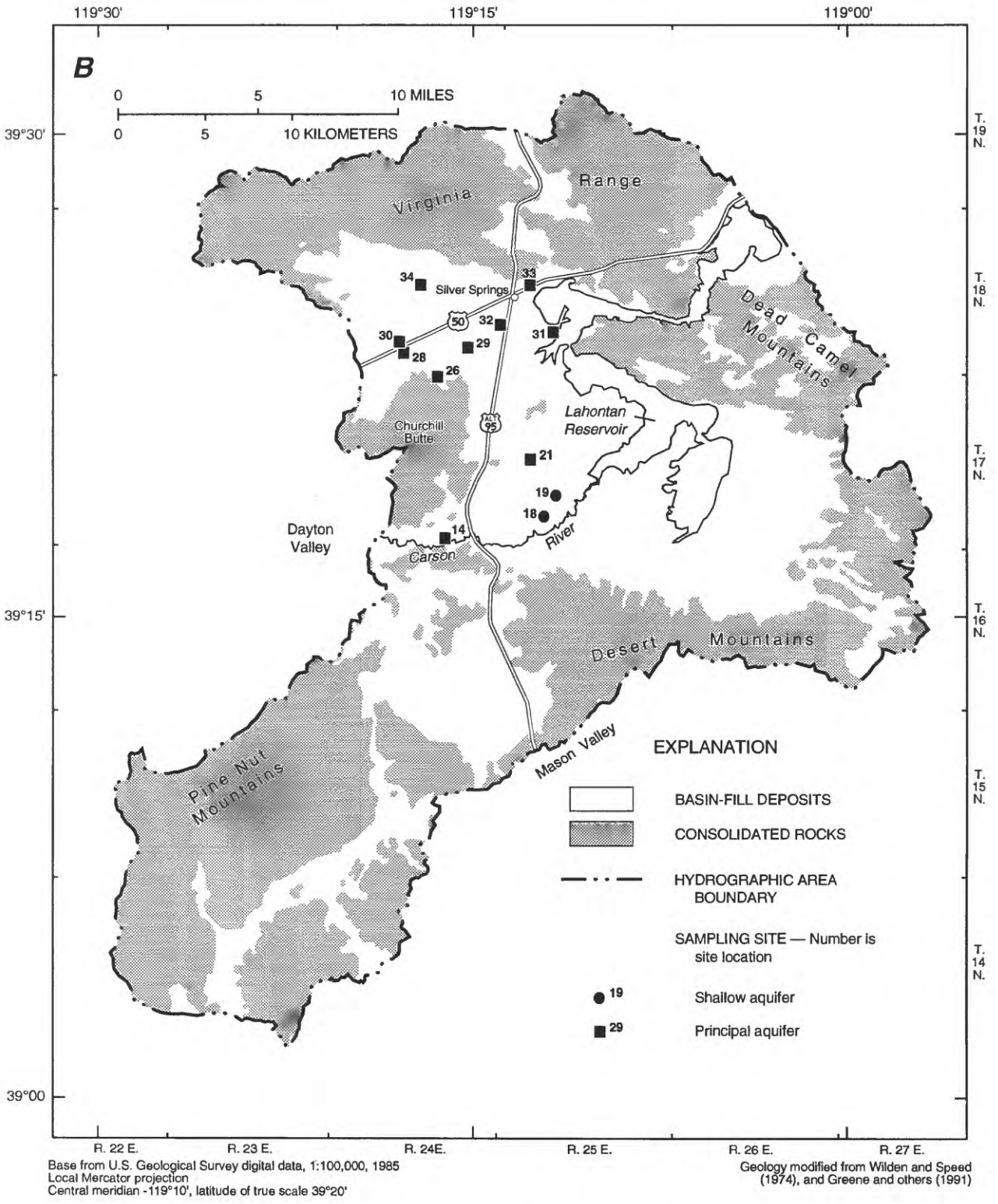
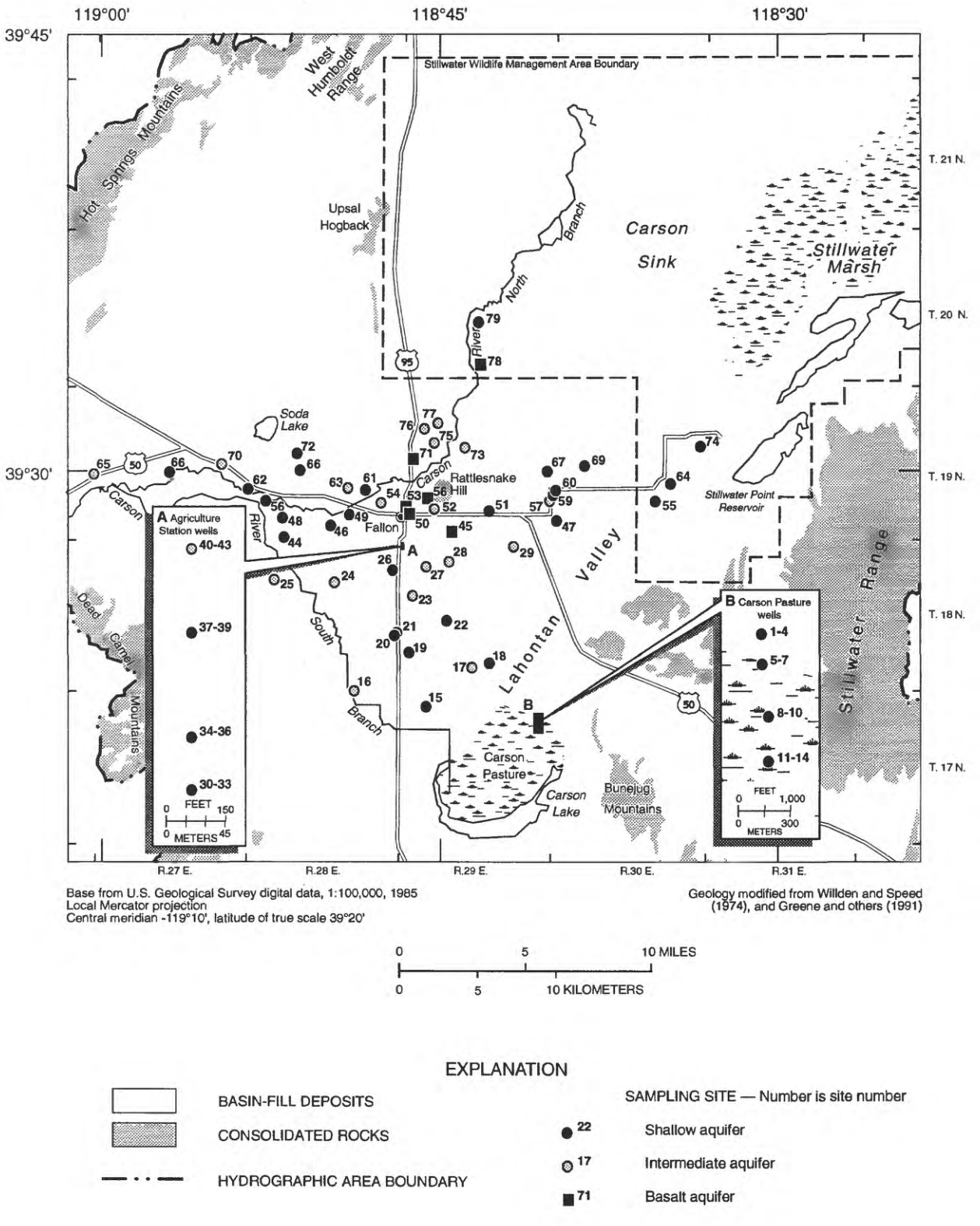


Figure 4. Ground-water sampling sites in (*A*) Dayton and (*B*) Churchill Valleys—Continued



Base from U.S. Geological Survey digital data, 1:100,000, 1985
Local Mercator projection
Central meridian -119°10', latitude of true scale 39°20'

Geology modified from Willden and Speed (1974), and Greene and others (1991)

EXPLANATION

BASIN-FILL DEPOSITS

CONSOLIDATED ROCKS

HYDROGRAPHIC AREA BOUNDARY

SAMPLING SITE — Number is site number

22 Shallow aquifer

17 Intermediate aquifer

71 Basalt aquifer

Figure 5. Ground-water sampling sites in the Carson Desert. Inset (A) is transect at Newlands Agricultural Station; inset (B) is transect north of Carson Lake.

For the purposes of this report, sources of ground water in the Carson River Basin were separated into different aquifer systems. The term "upland aquifers" is defined as saturated materials at altitudes above the altitude of the valley floors. The term "shallow aquifers" is defined as the upper 50 ft of saturated thickness of the basin-fill sediments. The term "principal aquifers" refers to the deeper part of the ground-water system (greater than 50 ft) that provides most of the ground water used in the basin. The aquifer system in Carson Desert was further subdivided and described by Glancy (1986). The systems were defined principally by the following depths: 0 to 50 ft, shallow aquifer; 50 to 500 ft, intermediate aquifer; and 500 to 1,000 ft, deep aquifer. The basalt aquifer is defined by lithologic characteristics; thermal aquifers in the Carson Desert are defined as containing water at temperatures greater than 30°C.

Ground-water samples for the NAWQA project were taken from selected aquifers in the Carson River Basin. Samples collected from the upland aquifers primarily represent ground water in areas of recharge. The shallow aquifers, sampled throughout the basin, are composed of basin-fill deposits. Sampling of the shallow aquifers provided the data to evaluate possible shallow contamination from urban, industrial, and agricultural sources. The wells tapping the shallow aquifers included wells drilled for the project, and domestic wells in the southern Carson Desert. All the samples from shallow aquifers came from wells and one spring in the northern part of Dayton Valley. Wells tapping the principal aquifers include domestic, irrigation, and public-supply wells throughout the basin. The principal aquifers are primarily composed of sedimentary deposits, although volcanic rocks are also sources of ground water, particularly in the Carson Desert. Well depths differ considerably; the deeper wells are generally used for municipal and agricultural purposes.

Purpose and Scope

The purpose of this report is to present the water-quality data collected for the Carson River Basin NAWQA pilot project. Analytical results are organized in tables on the basis of the hydrographic areas described above. Sampling began in August 1987 and continued through February 1990. The scope of the report is limited to analysis of ground water and ancillary data for wells in the Carson River Basin collected as part of the NAWQA project. Samples were collected at about 230 sites in the Carson River Basin from one spring, public and private wells, and wells drilled by the USGS for the NAWQA pilot project.

Local Site Identification System

A local site designation is used to identify each site by the official rectangular subdivision of the public lands referenced to the Mount Diablo base line and meridian. Each site designation consists of three units separated by spaces. The first unit is the township, preceded by an "N" or "S" to indicate location north or south of the base line. The second unit is the range, preceded by an "E" to indicate location east of the meridian. The third unit consists of the section number and letters designating in which part of the section the site is located—"A" is NE, "B" is NW, "C" is SW, and "D" is SE—and a sequence number for multiple sites in close proximity. For example, N11 E20 31CABD2 is in Carson Valley. It is the second site recorded in the southeast quarter (D) of the northwest quarter (B) of the northeast quarter (A) of the southwest quarter (C) of section 31, in Township 11 North, Range 20 East, Mount Diablo base line and meridian.

METHODS OF STUDY

Site Selection and Drilling Procedures

Sampling sites were located in the different aquifers throughout much of the basin, and consisted of shallow wells drilled for the project, existing wells of variable depth, and one spring. Only existing sites with well-construction and lithologic information were selected for sampling as part of the NAWQA project. All sites were located on USGS 7.5-minute topographic maps. The site locations were selected to include a broad area of the most densely populated part of each hydrographic area where large amounts of water are used, and represent water from the different aquifer systems.

Upland Aquifers.—The upland aquifers were sampled at selected sites in the basin, including one northern and one southern site in Carson Valley. Eagle Valley had five upland aquifer sites on the west edge of the valley, in and along the Carson Range. Dayton Valley had one upland aquifer sampling site—the one spring sampled in the basin. No upland aquifer sites were sampled elsewhere in the basin.

Shallow Aquifers.—Wells drilled for the NAWQA project in the shallow aquifers were for three different hydrologic settings. The first type of shallow-well sites were selected using a computerized random site-selection program that produced a statistical representation of sites in the study area (Scott, 1990). Using this method, 29 sites were located throughout the basin to regionally evaluate the aquifer system in agricultural areas (Welch and others, 1990). Carson Valley and Carson Desert had the greatest number of shallow-well sites, 9 and 15 respectively. Eagle Valley had no such sites, but inclusion of the western edge of Dayton Valley added 1 site to Eagle Valley. Dayton and Churchill Valleys had 4 sites, 2 in each valley. Depths of these wells ranged from 8 to 68 ft. Well sites were sampled twice; the second round of sampling was for organic compounds.

The second type of shallow-well sites were in transects through selected pastures or cropland in Carson Valley and Carson Desert. These sites were closely spaced in clusters along the transects to determine water-quality changes along the ground-water flow paths. Depths of wells drilled along these transects ranged from 8 to 60 ft. One transect of 18 wells at 6 sites was in a pasture north of Minden in central Carson Valley (fig. 2). A second transect of 17 wells at 5 sites was in a pasture south of Fallon near Carson Lake, and a third transect of 14 wells at 4 sites was located in cropland about 1 mi south of Fallon (fig. 5). These sites were generally sampled once, except the transect in the cropland south of Fallon was sampled twice.

The third type of shallow-well sites consisted of wells drilled in the shallow aquifers beneath urban areas in Carson City. This was to investigate the effects of urbanization on shallow ground-water quality (Stephen J. Lawrence, U.S. Geological Survey, written commun., 1991). Twenty sites were located on a grid, 0.5 mi apart, within urban Carson City. Wells had open intervals in the upper 5 to 35 ft of the saturated part of the aquifer. These sites were sampled twice in 1989, at the time of the seasonal minimum and maximum water-table altitudes for that year.

All the shallow wells were drilled by the USGS using well-installation protocols for the NAWQA pilot projects described by Hardy and others (1989). These wells were drilled with hollow-stem and solid-stem augers. The construction information and lithology of the penetrated sediments were recorded in well logs during the drilling. Wells were pumped to discharge a volume equivalent to three times the volume of water standing in the wells in order to collect samples representative of the ground water.

Principal and Other Aquifers.—Eighty-three well sites tapping the principal aquifers were located throughout the basin lowlands. These sites were generally sampled once; additional sampling was done when necessary, as indicated by results of analyses. Carson Valley had 28 principal aquifer sites—a combination of irrigation, municipal, and domestic wells, and one industrial well. Eagle Valley had 25 principal aquifer sites (domestic and municipal wells) located throughout the valley. Dayton and Churchill Valleys had 29 principal aquifer sites, and one that tapped the geothermal aquifer on the east side of the Carson River.

Carson Desert Aquifers.—Sites in the Carson Desert aquifers were grouped according to Glancy (1986). All sites were in the southern part of the basin. In the Fallon area, 12 domestic wells tapping the shallow aquifer were sampled, and additional wells were drilled at shallow-aquifer sites selected for the project as described above. In the intermediate aquifer, 18 domestic wells were sampled. Six wells tapping the basalt aquifer beneath Fallon were sampled, 4 of which are used for municipal purposes. No sites were selected from the deep aquifer in the Carson Desert.

Sampling Procedures

Similar sampling methods were used for all types of wells, and followed protocols developed for the NAWQA project and described by Hardy and others (1989). Quality-assurance procedures described by Mattraw and others (1989) were followed. A complete list of water-quality constituents and properties included in the sampling program is in table 1; not all constituents were measured at each site. In general, pH, water temperature, dissolved oxygen, and alkalinity were measured onsite. Water samples

for major constituents, nutrients, minor constituents, radionuclides, the stable isotopes deuterium and oxygen, and selected synthetic organic compounds were analyzed at the USGS National Water Quality Laboratory (NWQL) or their contract laboratory in Arvada, Colo., unless otherwise stated. Samples for cyanide analysis were collected at shallow wells in urban Carson City and wells in Dayton and Churchill Valleys. Constituents sampled in the different aquifer systems are given in table 2.

Wells drilled for the project were sampled using a positive-displacement pump placed at the midpoint of the open interval, with an additional intake just below the water level in the well. Pumping from the top drew fresh water into the well. The deeper intake was used for sample withdrawal. Prior to collecting samples, three well-bore volumes of water were removed if possible. If this volume could not be pumped in less than 1 hour, the wells were pumped dry and were sampled when water reentered the well. Field measurements of pH, specific conductance, water temperature, and dissolved oxygen were monitored on site with a flow-through cell near the wellhead during the pumping. Sampling began after measurements stabilized and followed the protocols described by Hardy and others (1989).

Wells with existing pumps were sampled before water passed through any pressure tanks, filters, or other treatment systems. Municipal wells with down-hole chlorine-injection systems were sampled after chlorination was discontinued and the wells had been pumped to flush residual chlorine. Field measurements were also monitored at these wells.

Wells tapping principal and upland aquifers were sampled for major constituents, minor constituents, nutrients, stable isotopes, radionuclides, and volatile organic compounds. Shallow aquifer wells were sampled for the constituents listed above, as well as for additional synthetic organic compounds (table 1).

Samples were shipped to the laboratory according to standard procedures. Samples for nutrients, radon, and organic compounds were shipped within a day after sampling. Samples for other constituents were shipped within 7 to 10 days after sampling. Analytical procedures used in the laboratory are described by Fishman and Friedman (1989), Thatcher and others (1977), and Wershaw and others (1987).

Quality-Assurance Procedures

In addition to the routine quality-assurance procedures that the USGS traditionally employs in the collection of hydrologic data, quality-assurance water samples—including duplicates, equipment blanks, trip blanks, and spikes—were collected and analyzed (Hardy and others, 1989, p. 30-32). The resulting quality-assurance data were used to evaluate sampling and analytical procedures. Results of the duplicate samples are presented in this report. Data for equipment blanks, trip blanks, and spikes are available for inspection at the USGS District Office in Carson City, Nev.

Duplicate samples were collected at selected sites. These samples allow evaluation of variability introduced by sampling and laboratory procedures. Duplicate samples are indicated in the tables by a sample-time difference of 1 minute. (For example, 1400 and 1401 in table 3).

Equipment blanks, which are samples of high-purity water, were used for quality assurance of sampling instruments. These data provide internal quality assurance. Samples are processed using the sampling equipment described in this report.

Trip blanks were collected only for the volatile organic compounds. These blanks are organic-free water received from the NWQL that accompanied the sample bottle during shipment to the field, sampling activities, and return to the NWQL. These blanks were used to identify any contamination from the environment. If volatile organic compounds were detected in trip blanks, additional samples were collected at the site. One compound, 1,2-dichloroethane, was detected in many samples and trip blanks. Because 1,2-dichloroethane was detected in trip blanks, the reported laboratory values for these corresponding samples are questionable and values exceeding detection levels are not included in this report.

Water samples with a known amount of synthetic organic compound added (spiked samples) were collected at selected shallow agricultural sites. These samples test the laboratory procedure for recovery of organic compounds and are not included in this report.

Minimum reporting levels for compounds differ for several reasons. Some variation is a result of interference from other constituents in the water. For instance, high salinity in samples may require dilution, particularly in water samples from the Carson Desert. Low levels of Dicamba, a herbicide, were detected in samples that also had high concentrations of naturally occurring dissolved organic carbon. Because of possible interference, these data are not included. Changes in laboratory procedure during the sampling period can affect the minimum reporting levels. Methylene chloride is used to extract synthetic organic compounds in the laboratory. Concentrations of methylene chloride in water samples at or slightly above the reporting level could be the result of contamination in the laboratory Stephen J. Lawrence, U.S. Geological Survey, written commun., 1991). Accordingly, methylene chloride values exceeding the detection level are not included in this report. Complete quality-assurance procedures for the NAWQA program are described in Mattraw and others (1989) and Hardy and others, (1989).

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Table 1. Field measurements and water-quality constituents included in analyses for Carson River Basin National Water-Quality Assessment pilot project

Field measurements	
Specific conductance	Hydrogen sulfide
pH	Alkalinity
Eh	Bicarbonate
Water temperature	Carbonate
Dissolved oxygen	
Major constituents	
Calcium	Carbonate
Magnesium	Sulfate
Sodium	Chloride
Potassium	Silica
Bicarbonate	Dissolved solids
Nutrients and carbon compounds	
Nitrate	Phosphorus
Nitrite	Orthophosphorus
Ammonium	Dissolved organic carbon
Un-ionized ammonia	Cyanide
Nitrogen, organic	
Minor constituents	
Aluminum	Iron
Antimony	Lead
Arsenic	Lithium
Barium	Manganese
Beryllium	Mercury
Boron	Molybdenum
Bromide	Nickel
Cadmium	Selenium
Chromium	Silver
Cobalt	Strontium
Copper	Vanadium
Fluoride	Zinc
Radionuclides	
Radon-222	Gross-alpha activity
Radium-226	Gross-beta activity
Radium-228	Uranium
Isotopes	
Deuterium	Oxygen-18
Carbon-13	Tritium
Carbon-14	Sulfur-34
Synthetic organic compounds	
Carbamate insecticides	Volatile organic compounds
Chlorophenoxy-acid herbicides	Phenolic compounds
Triazines and other nitrogen-containing pesticides	Polynuclear aromatic compounds
Organochlorine and organophosphorus compounds	

Table 2. Summary of constituents sampled in the different aquifer systems

[X, sampled; --, not sampled]

Constituent(s)	Aquifer systems			
	Principal and upland	Shallow		
		Agricultural areas	Transects	Urban areas
Selected unstable constituents, major constituents, nutrients, and carbon compounds	X	X	X	X
Minor constituents[1]	X	X	X	X
Radionuclides				
Radon-222	X	X	X	X
Radium-226 and radium-228	X	X	X	--
Uranium	X	X	X	--
Gross-alpha and gross-beta activities	X	X	X	--
Isotopes				
Deuterium hydrogen and oxygen-18	X	X	X	X
Carbon-13 and carbon-14	X	--	X	--
Tritium	X	--	--	--
Sulfur-34	X	--	X	--
Synthetic organic compounds				
Carbamate insecticides	--	X	X	X
Chlorophyenoxy-acid herbicides	--	X	X	X
Triazine and other nitrogen-containing pesticides	--	X	X	X
Organochlorine and organophosphorus compounds	--	X	X	X
Volatile organic compounds	X	X	--	X
Phenolic compounds	--	X	X	X
Polynuclear aromatic compounds	--	X	X	X

[1]Cyanide was sampled for in the urban area of Carson City and in Dayton and Churchill Valleys.

Table 3. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Valley

Local site identification: Indicates township, range, section number, location within the section, and sequence number (see text for complete description of local site-identification system). **Total depth of well:** Sources of information on well depth are drillers' logs (on file at Nevada Division of Water Resources or the U.S. Geological Survey, Carson City, Nevada). Specific conductance, pH, water temperature, Eh, dissolved oxygen, hydrogen sulfide, bicarbonate, and carbonate were measured in field, except those marked 'L' were measured in laboratory. **Field measurements and sampling:** Duplicate samples for a site are indicated by a time difference of 1 minute. **Abbreviations and symbols:** mg/L, milligrams per liter; mV, millivolts; µS/cm, microsiemens per centimeter at 25 degrees Celsius; °C, degrees Celsius; --, not determined; <, less than; U, upland aquifers; S, shallow aquifers; P, principal aquifers

Site (fig. 2)	Symbol	Latitude	Longitude	Local site identification	Altitude of land surface (feet)	Total depth of well (feet)	Date sampled	Time	Field measurements					
									Specific conductance (µS/cm)	pH (standard units)	Eh (mV)	Water temperature (°C)	Oxygen, dissolved (mg/L)	Hydrogen sulfide, dissolved (mg/L)
1	U	38°46'16"	119°46'55"	N11 E20 31CABD2	5,500	11	07-19-88	1200	92	6.3	300	16.5	4.0	<0.05
2	P	38°50'49"	119°46'45"	N11 E20 06BDA 1	4,840	70	07-28-88	1400	265	6.4	310	18.0	2.1	<.05
3	S	38°51'22"	119°47'15"	N12 E19 36DADA2	4,840	12	07-11-88	1400	249	6.4	110	16.5	5.7	--
							07-11-88	1401	249	6.4	110	16.5	5.7	--
4	S	38°51'25"	119°45'28"	N12 E20 32DBBD1	4,820	13	07-07-88	1200	157	6.8	290	15.5	6.6	--
							07-07-88	1201	157	6.8	290	15.5	6.6	--
5	P	38°53'03"	119°48'02"	N12 E19 24CCAA1	4,740	82	06-16-88	1600	123	7.8	290	15.5	2.4	--
6	P	38°53'45"	119°44'51"	N12 E20 16CCD 1	4,820	176	08-10-88	1100	352	7.8	310	17.5	3.9	--
7	P	38°53'52"	119°45'54"	N12 E20 17CCD 1	4,760	91	05-05-88	1100	222	6.8	420	13.0	6.8	--
8	P	38°54'14"	119°42'54"	N12 E20 15ADD 1	4,840	375	07-21-88	1600	214	7.0	330	21.0	2.4	--
9	P	38°54'41"	119°49'55"	N12 E19 10DCCA1	4,800	107	05-04-88	1000	80	6.6	460	10.5	9.8	--
10	P	38°55'12"	119°44'48"	N12 E20 09BCAD1	4,760	450	07-14-88	1100	208	7.2	--	13.0	8.2	--
11	S	38°55'22"	119°48'13"	N12 E19 13BABB1	4,700	17	08-23-88	1400	152	7.8	410	15.0	<1.0	--
12	P	38°55'46"	119°46'37"	N12 E20 06DB 1	4,720	120	05-04-88	1500	276	7.5	370	11.5	2.8	--
13	P	38°55'48"	119°50'13"	N12 E19 03CABD1	4,780	107	06-15-88	1330	146	6.5	320	11.5	4.8	--
14	P	38°55'54"	119°46'14"	N12 E20 06ADDD1	4,720	460	07-25-88	1100	232	7.6	--	15.5	--	--
15	P	38°56'04"	119°43'56"	N12 E20 4ADA 1	4,760	300	08-23-88	1100	406	7.1	--	13.0	3.8	--
						300	08-23-88	1101	406	7.1	--	13.0	3.8	--
16	P	38°56'21"	119°44'45"	N12 E20 04BAB 1	4,750	300	07-21-88	1200	372	6.9	310	20.5	<1.0	--
							07-21-88	1201	372	6.9	310	20.5	<1.0	--
17	U	38°56'26"	119°37'52"	N13 E21 33CDDD1	5,206	132	06-16-88	1100	437	7.4	290	15.5	5.5	--
							06-16-88	1101	437	7.4	290	15.5	5.5	--
18	U	38°56'26"	119°37'52"	N13 E21 33CDDD2	5,200	228	08-11-88	1300	359 L	8.2 L	--	--	--	--

Table 3. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Symbol	Latitude	Longitude	Local site identification	Altitude of land surface (feet)	Total depth of well (feet)	Date sampled	Time	Field measurements					
									Specific conductance (µS/cm)	pH (standard units)	Eh (mV)	Water temperature (°C)	Oxygen, dissolved (mg/L)	Hydrogen sulfide, dissolved (mg/L)
19	P	38°56′42″	119°46′45″	N13 E20 31BAAA1	4,700	413	07-27-88	1100	221	7.7	280	14.5	5.4	<0.05
20	P	38°56′54″	119°43′18″	N13 E20 34ACC 1	4,800	80	08-10-88	1400	279	7.6	300	22.5	5.0	--
21	U	38°57′03″	119°38′13″	N13 E21 33BCAB1	5,200	163	05-09-88	1300	377	8.0	120	14.5	<1.0	--
22	P	38°57′16″	119°47′54″	N13 E19 25CDD 1	4,700	260	07-25-88	1400	207	8.0	--	15.5	--	--
23	P	38°57′42″	119°45′38″	N13 E20 29BDDD1	4,720	118	05-09-88	1230	472	7.9	300	12.0	1.8	--
24	P	38°57′44″	119°42′39″	N13 E20 26BCAC1	4,840	200	09-06-88	1430	252	7.7	400	20.5	<1.0	--
25	S	38°58′20″	119°46′08″	N13 E20 20CBBC1	4,710	8	08-03-87	1000	665	7.4	--	14.5	<1.0	<.05
26	S	38°58′20″	119°46′08″	N13 E20 20CBBC2	4,710	21	08-03-87	0800	652	7.1	--	11.0	<1.0	<.05
27	S	38°58′20″	119°46′08″	N13 E20 20CBBC3	4,710	32	08-03-87	1130	573	7.2	--	13.0	<1.0	<.05
28	S	38°58′21″	119°46′15″	N13 E20 19DAAC1	4,710	9	08-03-87	1300	761	7.2	250	15.0	<1.0	<.05
29	S	38°58′21″	119°46′15″	N13 E20 19DAAC2	4,710	23	08-03-87	1530	627	7.2	250	13.0	<1.0	<.05
30	S	38°58′21″	119°46′15″	N13 E20 19DAAC3	4,710	32	08-03-87	1430	609	7.2	250	14.0	<1.0	<.05
31	S	38°58′22″	119°46′22″	N13 E20 19DABD1	4,700	8	08-03-87	1620	795	7.2	240	16.5	<1.0	<.05
32	S	38°58′22″	119°46′22″	N13 E20 19DABD2	4,700	20	08-03-87	1830	788	7.2	210	13.0	<1.0	<.05
33	S	38°58′22″	119°46′22″	N13 E20 19DABD3	4,700	26	08-04-87	0800	808	7.2	250	11.5	<1.0	<.05
34	S	38°58′22″	119°46′25″	N13 E20 19DABC1	4,700	8	08-04-87	1000	796	7.2	240	14.5	<1.0	<.05
							08-09-88	1100	695	7.3	290	14.0	<1.0	--
35	S	38°58′22″	119°46′25″	N13 E20 19DABC2	4,700	19	08-04-87	1100	684	7.2	250	12.5	<1.0	<.05
36	S	38°58′22″	119°46′25″	N13 E20 19DABC3	4,700	29	08-04-87	1200	635	7.2	310	12.5	<1.0	<.05
37	S	38°58′23″	119°46′32″	N13 E20 19DBAB1	4,700	10	08-05-87	0730	749	7.1	300	12.5	<1.0	<.05
38	S	38°58′23″	119°46′32″	N13 E20 19DBAB2	4,700	19	08-04-87	1330	702	7.2	190	14.0	<1.0	<.05
39	S	38°58′23″	119°46′32″	N13 E20 19DBAB3	4,700	29	08-04-87	1500	624	7.1	300	13.0	<1.0	<.05
40	S	38°58′23″	119°46′39″	N13 E20 19DBBA1	4,690	11	08-05-87	1130	720	7.1	240	13.5	<1.0	<.05
41	S	38°58′23″	119°46′39″	N13 E20 19DBBA2	4,690	19	08-05-87	0930	737	7.2	330	12.0	<1.0	<.05
42	S	38°58′23″	119°46′39″	N13 E20 19DBBA3	4,690	28	08-05-87	1030	701	7.1	360	12.0	<1.0	<.05
43	S	38°58′42″	119°46′56″	N13 E20 19BACC1	4,680	17	07-06-88	1100	667	7.3	160	14.0	<1.0	--
44	P	38°59′24″	119°45′48″	N13 E20 17BDC 1	4,720	286	08-05-88	1000	295	7.8	350	17.0	<1.0	--
45	P	38°59′57″	119°49′21″	N13 E19 11CCDB1	4,680	135	05-03-88	1500	142	9.0	60	14.0	<1.0	--
46	S	39°00′00″	119°45′41″	N13 E20 08CDAB1	4,700	16	08-09-88	1500	417	7.0	280	15.5	<1.0	--
47	P	39°00′05″	119°46′11″	N13 E20 07DADD1	4,700	170	05-10-88	1000	656	7.7	220	13.5	<1.0	--

Table 3. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Symbol	Latitude	Longitude	Local site identification	Altitude of land surface (feet)	Total depth of well (feet)	Date sampled	Time	Field measurements					
									Specific conductance (µS/cm)	pH (standard units)	Eh (mV)	Water temperature (°C)	Oxygen, dissolved (mg/L)	Hydrogen sulfide, dissolved (mg/L)
48	P	39°00′37″	119°48′07″	N13 E19 12BBAD1	4,670	400	06-09-88	1130	112	8.4	-20	18.5	1.0	--
49	P	39°00′45″	119°45′38″	N13 E20 05CDD 1	4,700	298	06-13-88	1145	198	8.1	240	17.5	1.1	--
50	S	39°00′48″	119°49′34″	N13 E20 03DDDB1	4,660	23	07-14-88	1400	948	7.0	140	14.5	<1.0	<0.05
51	P	39°01′10″	119°48′30″	N13 E19 02AD 1	4,670	500	09-20-88	1600	149	8.3	120	16.0	<1.0	--
52	P	39°01′39″	119°46′19″	N14 E20 31DDC 1	4,680	257	08-04-88	1200	212	8.2	100	21.0	<1.0	<.05
53	P	39°02′32″	119°44′32″	N14 E20 28CDC 1	4,700	88	05-05-88	1430	481	7.8	340	13.5	2.4	--
54	S	39°03′17″	119°47′30″	N14 E19 25BDDB2	4,660	18	07-20-88	1300	615	7.0	120	16.0	<1.0	<.05
55	U	39°04′57″	119°49′13″	N14 E19 14BBD 1	5,040	100	06-09-88	1500	117	8.6	310	17.5	4.6	--
56	P	39°05′03″	119°46′35″	N14 E20 18ABAB1	4,760	425	07-28-88	1000	240	9.1	260	22.0	2.3	.05
							07-28-88	1001	240	9.1	260	22.0	2.3	--
57	P	39°06′53″	119°44′43″	N15 E20 33CCDD1	4,720	235	08-01-88	1200	236	6.8	370	21.0	1.0	<.05

Table 3. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Major constituents													
		Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity (mg/L as $CaCO_3$)	Bicarbonate, (mg/L as HCO_3)	Carbonate, (mg/L as CO_3)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Bromide, (mg/L as Br)	Silica, dissolved (mg/L as SiO_2)	Solids, dissolved, sum of constituents (mg/L)
1	07-19-88	34	9.9	2.3	5.5	1.4	40	49	--	2.0	3.2	0.2	--	21	70
2	07-28-88	110	30	9.6	11	3.7	55	67	--	24	41	.2	--	34	186
3	07-11-88	86	26	4.9	7.9	13	75	91	--	15	16	.1	--	28	156
	07-11-88	--	--	--	--	--	75	91	--	--	--	--	--	--	--
4	07-07-88	59	15	5.2	14	1.9	61	74	--	18	8.5	.3	--	31	130
	07-07-88	--	--	--	--	--	60	73	--	--	--	--	--	--	--
5	06-16-88	34	9.5	2.4	15	1.4	56	68	--	9.4	.40	.3	--	25	97
6	08-10-88	110	27	9.6	45	2.0	160	195	--	24	7.7	.8	--	35	247
7	05-05-88	94	22	9.5	11	3.3	91	111	--	13	6.4	.1	--	46	166
8	07-21-88	85	23	6.6	14	1.7	80	97	--	28	5.7	.1	--	30	157
9	05-04-88	26	8.3	1.3	6.9	.9	35	43	--	2.8	.70	.2	--	26	68
10	07-14-88	83	22	6.8	14	2.1	81	99	--	25	4.4	.1	--	32	155
11	08-23-88	50	13	4.1	15	2.0	72	88	--	7.5	.80	.3	--	34	120
12	05-04-88	110	28	9.3	14	3.8	105	128	--	26	6.1	.1	--	34	184
13	06-15-88	55	17	2.9	7.3	2.4	52	63	--	1.9	5.3	.1	--	22	90
14	07-25-88	94	25	7.6	14	2.4	91	111	--	22	5.8	.1	--	32	163
15	08-23-88	190	52	15	23	2.8	189	230	--	42	8.9	.1	--	31	288
16	07-21-88	160	44	13	19	2.9	168	205	--	25	6.3	.1	--	28	239
	07-21-88	160	44	13	18	2.9	168	205	--	25	6.4	.2	--	28	238
17	06-16-88	180	52	12	27	1.8	189	231	--	32	5.8	.3	--	28	272
	06-16-88	170	50	12	26	1.8	189	231	--	29	5.8	.2	--	27	265
18	08-11-88	130	39	8.7	28	2.8	151	184	--	31	6.1	.1	--	23	229
19	07-27-88	88	24	6.6	15	2.4	93	113	--	20	4.6	.2	--	32	160
20	08-10-88	130	38	8.7	26	1.5	142	173	--	23	8.6	.2	--	38	229
21	05-09-88	130	35	11	25	3.8	111	136	--	63	6.4	.3	--	35	246
22	07-25-88	69	19	5.2	20	2.8	84	102	--	22	4.8	.2	--	37	161
23	05-09-88	210	61	15	19	3.8	221	270	--	18	5.3	.3	--	32	287
24	09-06-88	83	24	5.5	25	2.6	111	135	--	22	3.7	.2	--	56	205

Table 3. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Major constituents—Continued													
		Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity (mg/L as $CaCO_3$)	Bicarbonate, (mg/L as HCO_3)	Carbonate, (mg/L as CO_3)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Bromide, (mg/L as Br)	Silica, dissolved (mg/L as SiO_2)	Solids, dissolved, sum of constituents (mg/L)
25	08-03-87	250	59	25	52	2.5	308	375	--	54	5.6	0.3	<0.01	63	446
26	08-03-87	260	72	19	51	2.3	300	366	--	57	6.5	.2	.04	51	439
27	08-03-87	210	60	15	50	2.3	257	314	--	40	4.9	.2	.02	45	372
28	08-03-87	290	80	22	64	2.2	331	404	--	72	5.8	.3	.04	58	503
29	08-03-87	240	66	17	53	2.0	305	372	--	50	5.1	.2	.04	50	426
30	08-03-87	210	61	15	50	2.4	273	333	--	48	5.3	.2	.04	48	394
31	08-03-87	310	85	24	63	3.4	350	427	--	85	8.3	.3	.05	57	536
32	08-03-87	320	87	24	62	1.9	339	414	--	82	6.3	.3	.05	54	521
33	08-04-87	320	88	25	63	2.2	344	419	--	91	8.5	.2	.06	53	537
34	08-04-87	310	85	24	65	3.5	350	427	--	67	6.2	.3	.05	57	518
	08-09-88	290	81	22	61	2.3	339	414	--	71	8.5	.2	--	58	508
35	08-04-87	230	67	16	66	2.2	303	370	--	61	7.2	.3	.04	50	452
36	08-04-87	230	64	16	55	3.0	271	331	--	61	6.1	.2	.05	47	415
37	08-05-87	270	75	21	67	2.6	330	403	--	66	6.1	.2	.05	54	490
38	08-04-87	200	56	15	81	3.3	284	346	--	69	6.5	.3	.05	46	447
39	08-04-87	210	58	15	58	3.6	251	306	--	61	6.9	.2	.05	46	399
40	08-05-87	250	70	19	70	2.4	321	392	--	63	5.7	.3	.04	53	476
41	08-05-87	260	72	20	70	2.3	321	392	--	69	5.8	.3	.04	51	483
42	08-05-87	230	65	17	67	2.2	315	384	--	57	5.9	.3	.04	49	452
43	07-06-88	200	54	15	86	3.5	308	376	--	56	9.2	.3	--	46	455
44	08-05-88	87	30	2.8	29	1.7	88	107	--	47	10	.5	--	47	221
45	05-03-88	43	17	.19	15	.30	71	79	4	8.5	1.5	.2	--	16	102
46	08-09-88	170	50	11	38	3.5	193	235	--	47	6.6	.2	--	52	324
47	05-10-88	270	82	15	31	5.2	171	209	--	120	25	.4	--	47	428
48	06-09-88	8	2.4	.53	23	2.7	49	56	2	11	1.3	.7	--	57	128

Table 3. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Major constituents—Continued													
		Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity (mg/L as $CaCO_3$)	Bicarbonate, (mg/L as HCO_3)	Carbonate, (mg/L as CO_3)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Bromide, (mg/L as Br)	Silica, dissolved (mg/L as SiO_2)	Solids, dissolved, sum of constituents (mg/L)
49	06-13-88	29	10	0.84	29	3.1	64	78	--	21	4.8	0.7	--	60	168
50	07-14-88	250	68	20	94	7.8	394	480	--	50	9.4	.2	--	36	521
51	09-20-88	17	4.6	1.2	26	2.6	67	82	--	7.3	2.1	.2	--	53	137
52	08-04-88	22	7.6	.73	38	3.6	58	71	--	37	5.7	1.1	--	63	192
53	05-05-88	110	38	4.2	63	4.8	147	179	--	76	15	1.8	--	60	351
54	07-20-88	120	36	7.6	90	4.0	222	271	--	50	34	1.5	--	26	382
55	06-09-88	33	13	.05	14	1.0	57	66	1	1.3	1.0	1.4	--	17	82
56	07-28-88	17	6.3	.19	51	2.5	87	91	7	16	11	.5	--	18	157
57	08-01-88	99	30	5.8	21	1.6	116	142	--	6.1	7.2	.3	--	30	172

Table 3. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Nutrients and carbon compounds							
		Nitrogen, nitrate, dissolved (mg/L as N)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, un-ionized, dissolved (mg/L as N)	Nitrogen, organic, dissolved (mg/L as N)	Ortho phosphorus, dissolved (mg/L as P)	Carbon, organic, dissolved (mg/L as C)	Cyanide, dissolved (mg/L as CN)
1	07-19-88	0.58	<0.01	<0.01	<0.01	0.20	0.02	--	1.0
2	07-28-88	.93	.01	.07	<.01	.63	.05	--	.7
3	07-11-88	.26	<.01	.01	<.01	<.20	.58	--	1.5
4	07-07-88	.47	<.01	<.01	<.01	.50	.10	--	1.3
5	06-16-88	<.10	<.01	<.01	<.01	<.20	.03	--	.7
6	08-10-88	2.0	<.01	<.01	<.01	.30	.14	--	1.6
7	05-05-88	1.3	<.01	<.01	<.01	<.20	.06	--	.7
8	07-21-88	.54	<.01	<.01	<.01	.20	.03	--	.7
9	05-04-88	.81	<.01	<.01	<.01	<.20	.02	--	.4
10	07-14-88	1.2	<.01	<.01	<.01	<.20	.01	--	.6
11	08-23-88	.10	<.01	<.01	<.01	.30	.04	--	.4
12	05-04-88	2.2	<.01	.03	<.01	<.20	.02	--	.5
13	06-15-88	2.4	<.01	<.01	<.01	.30	.01	--	.6
14	07-25-88	1.6	<.01	<.01	<.01	.70	.02	--	.6
15	08-23-88	1.8	<.01	<.01	<.01	.50	.01	--	.6
16	07-21-88	1.3	<.01	<.01	<.01	<.20	.04	--	.8
	07-21-88	1.2	<.01	<.01	<.01	1.2	.04	--	--
17	06-16-88	.46	<.01	<.01	<.01	.20	.03	--	.7
	06-16-88	.41	<.01	<.01	<.01	<.20	.03	--	1.6
18	08-11-88	.28	<.01	<.01	--	<.20	.03	--	--
19	07-27-88	.86	<.01	<.01	<.01	<.20	.02	--	.7
20	08-10-88	2.0	<.01	<.01	<.01	.30	.05	--	1.5
21	05-09-88	<.10	<.01	.07	<.01	<.20	.05	--	.4
22	07-25-88	.80	<.01	<.01	<.01	.80	.03	--	.8
23	05-09-88	2.0	<.01	.02	<.01	<.20	.03	--	1.2
24	09-06-88	.46	<.01	<.01	<.01	.60	.02	--	.5
25	08-03-87	<.10	<.01	.08	<.01	.72	.28	.33	3.9
26	08-03-87	1.68	.02	.04	<.01	.76	.16	.20	3.5
27	08-03-87	.38	<.01	<.01	<.01	.60	.07	.11	2.2
28	08-03-87	2.27	.03	<.01	<.01	.70	.25	.30	4.2

Table 3. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Nutrients and carbon compounds—Continued							
		Nitrogen, nitrate, dissolved (mg/L as N)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, un-ionized, dissolved (mg/L as N)	Nitrogen, organic, dissolved (mg/L as N)	Ortho phosphorus, dissolved (mg/L as P)	Carbon, organic, dissolved (mg/L as C)	Cyanide, dissolved (mg/L as CN)
29	08-03-87	0.62	<0.01	<0.01	<0.01	0.50	0.07	0.12	2.5
30	08-03-87	.61	<.01	<.01	<.01	.40	.07	.13	2.2
31	08-03-87	1.47	.03	.04	<.01	.76	.23	.29	3.4
32	08-03-87	1.69	.01	<.01	<.01	.50	.20	.24	3.1
33	08-04-87	2.1	<.01	<.01	<.01	.90	.18	.23	--
34	08-04-87	1.07	.03	.02	<.01	.68	.19	.24	3.8
	08-09-88	.92	.03	.03	<.01	<.20	.24	--	3.3
35	08-04-87	.94	<.01	<.01	<.01	.50	.15	.19	2.1
36	08-04-87	.99	<.01	<.01	<.01	.40	.10	.15	2.2
37	08-05-87	1.5	<.01	<.01	<.01	.40	.17	.22	3.2
38	08-04-87	1.6	<.01	.02	<.01	.48	.14	.22	2.9
39	08-04-87	1.9	<.01	<.01	<.01	.40	.10	.15	2.0
40	08-05-87	1.4	<.01	<.01	<.01	.70	.17	.22	2.5
41	08-05-87	1.5	<.01	<.01	<.01	.80	.17	.32	3.0
42	08-05-87	1.4	<.01	<.01	<.01	.60	.17	.22	2.4
43	07-06-88	.68	<.01	<.01	<.01	.50	.16	--	2.5
44	08-05-88	.31	<.01	.01	<.01	<.20	.02	--	1.2
45	05-03-88	<.10	<.01	<.01	<.01	.20	.04	--	.5
46	08-09-88	1.5	<.01	.04	<.01	.36	.44	--	3.0
47	05-10-88	2.1	<.01	.02	<.01	.28	.02	--	.9
48	06-09-88	<.10	<.01	.21	.02	<.20	.24	--	1.2
49	06-13-88	<.10	<.01	<.01	<.01	<.20	<.01	--	.6
50	07-14-88	.13	.01	.90	<.01	<.20	.18	--	2.2
	05-15-89	<.10	.01	.66	--	.34	.17	--	--
51	09-20-88	<.10	<.01	.06	<.01	.24	.13	--	.5
52	08-04-88	<.10	<.01	.04	<.01	<.20	.04	--	1.1
53	05-05-88	.86	<.01	<.01	<.01	<.20	.01	--	.7
54	07-12-89	.87	<.01	.03	--	.27	.04	--	--
55	06-09-88	1.0	<.01	<.01	<.01	<.20	<.01	--	.7
56	07-28-88	1.0	<.01	<.01	<.01	.20	.03	--	.5
57	08-01-88	2.6	<.01	<.01	<.01	<.20	.11	--	.9

Table 4. Minor constituents in ground-water samples from Carson Valley

[Additional dissolved arsenic analyses shown in parentheses; arsenite and arsenate values are for analyses by Battelle Marine Research Laboratory, Sequim, Washington. Additional dissolved iron analyses shown in parentheses; ferrous and ferric iron values are for analyses by the U.S. Geological Survey, Carson City, Nevada. Abbreviations and symbols: µg/L, micrograms per liter; --, not determined; <, less than]

Site (fig. 2)	Date	Aluminum dissolved (µg/L as Al)	Antimony, dissolved (µg/L as Sb)	Arsenic, dissolved (µg/L as As)	Arsenite arsenic, dissolved (µg/L as As)	Arsenate arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)
1	07-19-88	--	<1	<1	--	--	45	<0.5	<10	<1
2	07-28-88	--	<1	<1	--	--	67	<.5	30	<1
3	07-11-88	--	<1	1	--	--	120	<.5	20	<1
4	07-07-88	--	<1	2	--	--	43	<.5	60	<1
5	06-16-88	--	<1	1	--	--	30	<.5	30	<1
6	08-10-88	--	<1	16 (15)	<.62	14	74	<.5	180	<1
7	05-05-88	--	<1	3	--	--	87	<.5	70	<1
8	07-21-88	--	<1	2	--	--	62	<.5	160	<1
9	05-04-88	--	<1	<1	--	--	7	<.5	10	<1
10	07-14-88	--	<1	1	--	--	63	<.5	150	<1
11	08-23-88	--	1	19 (14)	16	--	34	<.5	20	<1
12	05-04-88	--	<1	4	--	--	91	<.5	160	<1
13	06-15-88	--	<1	<1	--	--	26	<.5	20	<1
14	07-25-88	--	<1	2	--	--	84	<.5	140	<1
15	08-23-88	--	<1	2	--	--	140	<.5	220	<1
16	07-21-88	--	<1	3	--	--	130	<.5	170	<1
	07-21-88	--	<1	3	--	--	130	<.5	160	<1
17	06-16-88	--	2	4	--	--	100	<.5	20	<1
	06-16-88	--	2	4	--	--	100	<.5	20	<1
18	08-11-88	--	<1	8	--	--	78	<.5	30	<1
19	07-27-88	--	<1	4	--	--	82	<.5	160	<1
20	08-10-88	--	<1	7	--	--	83	<.5	100	<1
21	05-09-88	--	<1	4	--	--	120	<.5	30	<1
22	07-25-88	--	<1	9	--	--	72	<.5	150	<1
23	05-09-88	--	<1	3	--	--	170	<.5	170	<1
24	09-06-88	--	<1	12	--	--	54	<.5	110	<1
25	08-03-87	<10	--	20 (22)	2.8	19	41	.9	480	<1
26	08-03-87	<10	--	14	--	--	73	<.5	340	<1
27	08-03-87	<10	--	7	--	--	67	<.5	320	<1
28	08-03-87	<10	--	20	--	--	57	<.5	420	<1
29	08-03-87	<10	--	6	--	--	71	<.5	340	<1
30	08-03-87	<10	--	6	--	--	64	.7	340	<1
31	08-03-87	10	--	16	--	--	66	<.5	420	<1
32	08-03-87	<10	--	14	--	--	96	<.5	380	<1
33	08-04-87	<10	--	14	--	--	87	<.5	390	<1
34	08-04-87	<10	--	11 (12)	0.5	11	71	<.5	440	<1
	08-09-88	--	1	14 (14)	<.62	--	69	<.5	390	<1
35	08-04-87	10	--	10	--	--	79	<.5	350	<1
36	08-04-87	<10	--	6	--	--	64	.7	380	<1
37	08-05-87	<10	--	12	--	--	76	<.5	390	<1

Table 4. Minor constituents in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Aluminum dissolved (µg/L as Al)	Antimony, dissolved (µg/L as Sb)	Arsenic, dissolved (µg/L as As)	Arsenite arsenic, dissolved (µg/L as As)	Arsenate arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)
38	08-04-87	<10	--	9	--	--	60	<0.5	400	<1
39	08-04-87	<10	--	6	--	--	59	.9	340	<1
40	08-05-87	<10	--	13	--	--	71	<.5	370	<1
41	08-05-87	<10	--	12	--	--	76	<.5	360	<1
42	08-05-87	<10	--	12	--	--	75	.6	350	<1
43	07-06-88	--	<1	11 (13)	1.6	12	76	<.5	420	<1
44	08-05-88	--	<1	39 (20)	11	9.4	49	<.5	150	<1
45	05-03-88	--	<1	<1	--	--	4	<.5	20	<1
46	08-09-88	--	2	55	--	--	54	<.5	190	<1
47	05-10-88	--	<1	13	--	--	150	.5	160	<1
48	06-09-88	--	3	24 (34)	29	5	20	<.5	70	<1
49	06-13-88	--	4	<1	--	--	20	<.5	160	3
50	07-14-88	--	<1	<1	--	--	230	<.5	310	<1
51	09-20-88	--	<1	5	--	--	29	<.5	40	<1
52	08-04-88	--	2	54 (23)	2.6	20	29	<.5	180	<1
53	05-05-88	--	1	19 (19)	<.5	--	57	<.5	230	<1
54	07-20-88	--	<1	<1	--	--	81	<.5	570	<1
55	06-09-88	--	1	<1	--	--	13	<.5	<10	<1
56	07-28-88	--	<1	15 (14)	<.6	--	17	<.5	120	<1
57	08-01-88	--	2	<1	--	--	72	<.5	20	<1

Table 4. Minor constituents in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Ferrous iron, dissolved (µg/L as Fe)	Ferric iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)
1	07-19-88	<5	<3	<10	7	--	--	<10	<4	130
2	07-28-88	<5	<3	<10	8	--	--	<10	6	<1
3	07-11-88	<5	<3	<10	6	--	--	<10	4	19
4	07-07-88	<5	<3	<10	<3	--	--	<10	12	2
5	06-16-88	<5	<3	<10	140	--	--	<10	<4	150
6	08-10-88	<5	<3	<10	6	--	--	<10	30	10
7	05-05-88	<5	<3	<10	7	--	--	<10	15	3
8	07-21-88	<5	<3	<10	<3	--	--	<10	24	1
9	05-04-88	<5	<3	40	<3	--	--	<10	9	7
10	07-14-88	<5	<3	<10	7	--	--	<10	20	190
11	08-23-88	<5	<3	<10	5	--	--	<10	5	43
12	05-04-88	<5	<3	<10	7	--	--	<10	25	1
13	06-15-88	<5	<3	<10	<3 (2)	1.1	0.9	<10	6	<1
14	07-25-88	<5	<3	<10	5	--	--	<10	22	<1
15	08-23-88	<5	<3	<10	5	--	--	<10	29	<1
16	07-21-88	<5	<3	<10	5	--	--	<10	25	<1
	07-21-88	<5	<3	<10	<3	--	--	<10	26	<1
17	06-16-88	<5	<3	<10	<3	--	--	<10	7	<1
	06-16-88	<5	<3	<10	10	--	--	<10	8	1
18	08-11-88	<5	<3	<10	9	--	--	<10	10	<1
19	07-27-88	<5	<3	<10	<3	--	--	<10	19	1
20	08-10-88	<5	<3	<10	7	--	--	<10	4	3
21	05-09-88	<5	<3	<10	100	--	--	<10	14	220
22	07-25-88	<5	<3	<10	8	--	--	<10	21	<1
23	05-09-88	<5	<3	<10	<3	--	--	<10	19	<1
24	09-06-88	<5	<3	<10	<3	--	--	<10	7	<1
25	08-03-87	<1	<3	<10	5	--	--	<10	18	490
26	08-03-87	<3	<3	<10	26	--	--	<10	18	170
27	08-03-87	<1	<3	<10	9	--	--	<10	7	78
28	08-03-87	<1	<3	<10	3	--	--	10	20	230
29	08-03-87	<1	<3	<10	<3	--	--	<10	15	99
30	08-03-87	<1	<3	<10	<3	--	--	<10	11	61
31	08-03-87	<1	<3	<10	11	--	--	<10	23	320
32	08-03-87	<1	<3	<10	8	--	--	<10	17	260
33	08-04-87	<1	<3	<10	<3	--	--	<10	21	67
34	08-04-87	<2	<3	<10	5	--	--	10	23	530
	08-09-88	<5	<3	<10	4	--	--	<10	27	460
35	08-04-87	<1	<3	<10	5	--	--	<10	18	160
36	08-04-87	<1	<3	<10	<3	--	--	<10	12	8
37	08-05-87	<1	<3	<10	3	--	--	<10	22	390

Table 4. Minor constituents in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Ferrous iron, dissolved (µg/L as Fe)	Ferric iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)
38	08-04-87	<1	<3	<10	62	--	--	<10	17	320
39	08-04-87	<1	<3	<10	4	--	--	<10	9	19
40	08-05-87	<1	<3	<10	7	--	--	10	23	190
41	08-05-87	<1	<3	<10	<3	--	--	10	17	220
42	08-05-87	<1	<3	<10	<3	--	--	<10	17	60
43	07-06-88	<5	<3	<10	<3	--	--	<10	21	110
44	08-05-88	<5	<3	<10	6	--	--	<10	35	90
45	05-03-88	<5	<3	<10	5	--	--	<10	27	12
46	08-09-88	<5	<3	<10	360	--	--	<10	27	21
47	05-10-88	<5	<3	<10	9	--	--	<10	33	1
48	06-09-88	<5	<3	<10	44	--	--	<10	6	41
49	06-13-88	<5	<3	<10	<3	--	--	<10	21	<1
50	07-14-88	<5	<3	<10	6,400 (6,800)	6,500	290	<10	30	2,200
51	09-20-88	<5	<3	<10	53	--	--	<10	9	56
52	08-04-88	<5	<3	<10	16 (8.8)	5.1	37	<10	22	40
53	05-05-88	16	<3	<10	42 (4.3)	4.3	<.1	<10	23	4
54	07-20-88	<5	<3	<10	<3	--	--	<10	37	20
55	06-09-88	<5	<3	<10	<3	--	--	<10	<4	1
56	07-28-88	<5	<3	<10	9	--	--	<10	7	<1
57	08-01-88	<5	<3	<10	10	--	--	<10	9	2

Table 4. Minor constituents in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Selenium, dissolved (µg/L as Se)	Silver, dissolved (µg/L as Ag)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
1	07-19-88	<0.1	<10	<10	<1	<1	110	<6	6
2	07-28-88	.2	<10	<10	<1	<1	300	<6	7
3	07-11-88	<.1	<10	<10	<1	<1	320	<6	3
4	07-07-88	<.1	<10	<10	<1	<1	200	<6	<3
5	06-16-88	<.1	10	<10	<1	1	73	<6	<4
6	08-10-88	<.1	10	<10	<1	<1	300	10	7
7	05-05-88	<.1	<10	<10	3	<1	260	<6	93
8	07-21-88	<.1	<10	<10	<1	<1	290	<6	7
9	05-04-88	<.1	60	<10	<1	<1	100	<6	230
10	07-14-88	<.1	<10	<10	<1	<1	290	<6	4
11	08-23-88	<.1	20	<10	<1	<1	120	7	4
12	05-04-88	<.1	<10	<10	<1	<1	330	<6	92
13	06-15-88	<.1	<10	<10	<1	1	120	<6	10
14	07-25-88	<.1	<10	<10	<1	<1	480	<6	4
15	08-23-88	<.1	<10	<10	<1	<1	640	<6	20
16	07-21-88	<.1	<10	<10	<1	1	570	<6	25
	07-21-88	<.1	<10	<10	<1	<1	550	<6	23
17	06-16-88	<.1	<10	<10	<1	<1	530	7	4
	06-16-88	<.1	<10	<10	<1	2	520	8	8
18	08-11-88	<.1	<10	<10	<1	<1	420	8	16
19	07-27-88	<.1	<10	<10	<1	<1	300	<6	<3
20	08-10-88	<.1	10	<10	<1	<1	300	11	22
21	05-09-88	<.1	<10	<10	<1	<1	290	<6	38
22	07-25-88	<.1	<10	<10	<1	<1	270	8	16
23	05-09-88	<.1	<10	<10	<1	<1	630	<6	54
24	09-06-88	<.1	<10	<10	<1	<1	190	19	14
25	08-03-87	<.1	10	<10	<1	1	600	14	10
26	08-03-87	<.1	10	<10	<1	<1	630	10	7
27	08-03-87	<.1	20	<10	<1	<1	510	7	11
28	08-03-87	<.1	20	<10	<1	<1	740	14	<3
29	08-03-87	<.1	10	<10	1	<1	560	7	<3
30	08-03-87	<.1	20	<10	<1	<1	490	7	5
31	08-03-87	<.1	20	<10	<1	<1	770	11	4
32	08-03-87	<.1	20	<10	<1	<1	780	10	<3
33	08-04-87	<.1	20	<10	<1	<1	810	10	<3
34	08-04-87	<.1	20	<10	<1	<1	750	11	<3
	08-09-88	<.1	10	<10	<1	<1	700	14	<3
35	08-04-87	<.1	20	<10	<1	<1	590	7	<3
36	08-04-87	<.1	10	<10	<1	2	500	7	5
37	08-05-87	<.1	20	<10	<1	<1	700	10	<3

Table 4. Minor constituents in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Selenium, dissolved (µg/L as Se)	Silver, dissolved (µg/L as Ag)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
38	08-04-87	<0.1	10	<10	<1	<1	520	7	<3
39	08-04-87	<.1	<10	<10	<1	2	480	6	5
40	08-05-87	<.1	20	<10	<1	<1	650	9	<3
41	08-05-87	<.1	20	<10	<1	<1	670	9	<3
42	08-05-87	<.1	20	<10	<1	1	590	9	5
43	07-06-88	<.1	30	<10	1	1	460	7	<3
44	08-05-88	<.1	<10	<10	<1	<1	250	<6	<3
45	05-03-88	<.1	30	<10	<1	<1	16	<6	9
46	08-09-88	<.1	10	<10	<1	<1	390	30	4
47	05-10-88	<.1	<10	<10	<1	<1	760	6	20
48	06-09-88	<.1	40	<10	<1	<1	31	<6	<3
49	06-13-88	<.1	<10	<10	<1	6	91	22	5
50	07-14-88	<.1	10	<10	<1	<1	630	<6	<3
51	09-20-88	<.1	20	<10	<1	<1	45	<6	<3
52	08-04-88	<.1	40	<10	<1	<1	72	<6	<3
53	05-05-88	<.1	10	10	1	<1	410	16	31
54	07-20-88	<.1	20	<10	<1	2	340	<6	<3
55	06-09-88	<.1	<10	<10	<1	<1	84	9	5
56	07-28-88	<.1	<10	<10	<1	<1	99	64	6
57	08-01-88	<.1	<10	<10	<1	<1	310	<6	5

Table 5. Radionuclides in ground-water samples from Carson Valley

[Uranium (natural) and uranium extraction in pCi/L are calculated from the corresponding uranium values in µg/L by assuming that the activity ratio of U-234 to U-238 is 1. Abbreviations and symbols: µg/L, micrograms per liter; pCi/L, picocuries per liter; --, not determined; <, less than; Cs-137, cesium-137; Sr-90/Y-90, strontium-90/yttrium-90]

Site (fig. 2)	Date	Radon-222, total (pCi/L)	Radium-226, dissolved, radon method (pCi/L)	Radium-228, dissolved (pCi/L as Ra-228)	Uranium (natural), dissolved (µg/L as U)	Uranium (natural), dissolved, (pCi/L)	Gross alpha, dissolved (µg/L as U, natural)	Gross alpha, dissolved (pCi/L)	Gross beta, dissolved (pCi/L as Cs-137)	Gross beta, dissolved (pCi/L as Sr-90/Y-90)
1	07-19-88	5,200	--	--	<0.4	<0.3	1.0	0.7	2.7	2.3
2	07-28-88	3,200	--	--	--	--	4.0	2.7	6.5	4.8
3	07-11-88	840	--	--	<.4	<.3	1.4	.9	19	14
	07-11-88	--	--	--	--	--	1.4	.9	15	11
4	07-07-88	1,800	--	--	.5	.3	1.7	1.2	2.7	2.2
	07-07-88	1,700	--	--	--	--	1.8	1.2	2.8	2.3
5	05-11-89	--	0.13	1.2	2.3	1.6	1.4	.9	3.2	2.5
6	06-16-88	700	--	--	3.6	2.4	.8	.5	1.7	1.5
7	08-10-88	1,500	--	--	6.1	4.1	7.9	5.4	7.3	5.5
	05-05-88	1,164	--	--	.8	.5	1.3	.9	2.7	2.3
8	07-21-88	1,400	--	--	.5	.3	.6	.4	2.5	2.0
9	05-04-88	7,100	--	--	.8	.5	2.2	1.5	3.1	2.7
10	07-14-88	1,100	--	--	.5	.3	<.4	<.3	2.6	2.0
11	08-23-88	550	--	--	5.5	3.7	5.3	3.6	6.0	5.0
12	05-04-88	760	--	--	1.5	1.0	2.0	1.4	4.8	3.6
13	06-15-88	6,970	--	--	15	10	10	6.8	16	14
	07-06-89	--	.18	--	--	--	--	--	--	--
14	07-25-88	1,300	--	--	.8	.5	1.1	.8	3.9	2.9
15	08-23-88	940	--	--	3.2	2.2	4.9	3.3	6.6	5.0
	08-23-88	860	--	--	--	--	4.9	3.3	7.3	5.5
16	07-21-88	1,200	--	--	5.7	3.9	7.2	4.9	5.8	4.2
	07-21-88	--	--	--	--	--	6.6	4.5	5.7	4.2
17	06-16-88	860	--	--	3.6	2.4	6.2	4.2	5.7	4.3
	06-16-88	820	--	--	--	--	--	--	--	--
19	07-27-88	710	--	--	1.1	.8	1.4	1.0	3.3	2.5
20	08-10-88	1,000	--	--	3.0	2.0	3.4	2.3	4.0	2.9
21	05-09-88	--	--	--	<.4	<.3	<.4	<.3	4.2	3.3
	07-07-89	530	--	--	--	--	--	--	--	--
22	07-25-88	690	--	--	2.0	1.4	2.8	1.9	5.0	3.8
23	05-09-88	728	--	--	9.7	6.6	13	8.8	10	7.6
24	09-06-88	860	--	--	2.0	1.4	1.5	1.0	5.2	4.0
34	08-09-88	1,200	--	--	26	18	25	17	22	15
43	07-06-88	--	--	--	21	14	28	19	17	12
	08-14-89	548	--	--	--	--	--	--	--	--
	08-15-89	550	.10	<1.0	30	20	--	--	11	9.7
44	08-05-88	790	--	--	5.6	3.8	6.1	4.1	5.0	3.7
45	05-03-88	540	--	--	<.4	<.3	<.4	<.3	<.4	<.4
46	08-09-88	--	--	--	6.4	4.3	4.7	3.2	11	8.2
	08-14-89	500	.10	<1.0	5.1	3.5	2.9	2.0	5.2	4.5
47	05-10-88	--	--	--	18	12	26	18	18	14

Table 5. Radionuclides in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Radon-222, total (pCi/L)	Radium-226, dissolved, radon method (pCi/L)	Radium-228, dissolved (pCi/L as Ra-228)	Uranium (natural), dissolved (µg/L as U)	Uranium (natural), dissolved, (pCi/L)	Gross alpha, dissolved (µg/L as U, natural)	Gross alpha, dissolved (pCi/L)	Gross beta, dissolved (pCi/L as Cs-137)	Gross beta, dissolved (pCi/L as Sr-90/Y-90)
48	07-06-89	500	--	--	--	--	--	--	--	--
49	06-09-88	1,400	--	--	<0.4	<0.3	4.3	2.9	4.6	3.9
	06-13-88	--	--	--	.8	.5	1.6	1.1	2.2	1.7
50	07-07-89	1,700	--	--	--	--	--	--	--	--
	07-14-88	560	--	--	<.4	<.3	1.8	1.2	9.6	6.7
51	09-20-88	700	--	--	<.4	<.3	1.6	1.1	3.4	2.7
52	08-04-88	850	--	--	<.4	<.3	.7	.5	5.0	3.8
53	05-05-88	276	--	--	4.5	3.1	6.7	4.5	7.1	5.3
54	07-20-88	880	--	--	36	24	35	24	28	21
55	06-09-88	790	--	--	2.5	1.7	2.1	1.4	2.6	2.2
56	07-28-88	940	--	--	--	--	6.2	4.2	2.6	2.0
57	08-01-88	1,700	--	--	2.5	1.7	3.0	2.0	3.4	2.5

Table 6. Isotopes in ground-water samples from Carson Valley

[Stable isotopes evaluated are carbon-13 relative to carbon-12 ($^{13}C/^{12}C$), deuterium (hydrogen-2) relative to hydrogen-1 ($D/^{1}H$), oxygen-18 relative to oxygen-16 ($^{18}O/^{16}O$), and sulfur-34 relative to sulfur-32 ($^{34}S/^{32}S$). Each ratio was determined for a water sample, then related mathematically to the comparable ratio for the following international reference standards: Peedee belemnite for carbon, Vienna Standard Mean Ocean Water for hydrogen and oxygen, and Canyon Diablo troilite for sulfur isotopes. Computed results are expressed as "delta carbon-13," "delta deuterium," "delta oxygen-18," and "delta sulfur-34"; units of measure are parts per thousand (abbreviated "permil"). A negative delta value indicates that the water sample is isotopically lighter than the standard (for example, the water sample has a smaller proportion of deuterium relative to hydrogen-1 than the standard). Abbreviations and symbols: pCi/L, picocuries per liter; PMC, percent modern carbon; --, not determined; <, less than]

Site (fig. 2)	Date	Delta deuterium (permil)	Delta oxygen-18 (permil)	Delta carbon-13 (permil)	Carbon-14 (PMC)	Tritium (pCi/L)	Delta sulfur-34 (permil)
1	07-19-88	-110	-14.0	--	--	--	--
2	07-28-88	-104	-13.5	-17.4	119	36	4.9
3	07-11-88	-108	-13.9	--	--	--	--
4	07-07-88	-105	-13.8	--	--	--	--
5	06-16-88	-111	-15.4	-15.4	--	2.8	-4.5
6	08-10-88	-106	-13.0	--	119	80	5.7
7	05-05-88	-102	-12.7	--	--	39	--
8	07-21-88	-106	-14.5	-12.4	105	39	-1.9
9	05-04-88	-110	-14.0	--	--	34	--
10	07-14-88	-106	-14.2	-14.8	122	58	-1.5
11	08-23-88	-117	-15.6	--	--	1.8	--
12	05-04-88	-109	-14.3	--	--	140	--
13	06-15-88	-107	-14.2	-14.4	--	34	--
14	07-25-88	-108	-15.0	--	115	81	-.2
	08-12-88	--	--	-16.4	--	--	--
15	08-23-88	-108	-12.7	-14.6	105	47	.1
16	07-21-88	-107	-14.4	-14.0	111	65	.6
17	06-16-88	-115	-15.5	-11.2	--	<.3	-2.6
	08-11-88	--	--	-12.3	89	--	--
19	07-27-88	-110	-14.6	-13.1	99	74	.9
20	08-10-88	-107	-14.3	-11.1	105	59	.6
21	05-09-88	-128	-16.4	--	--	.4	--
	07-07-89	--	--	-11.6	9.0	--	--
22	07-25-88	-112	-15.0	-13.1	88	9.4	3.6
23	05-09-88	-108	-14.8	--	--	--	--
	07-07-89	--	--	--	--	11	--
24	09-06-88	-106	-13.4	-11.9	96	74	-4.3
25	08-03-87	-102	-13.5	--	--	--	--
26	08-03-87	-103	-14.1	--	--	--	--
27	08-03-87	-104	-14.0	--	--	--	--
28	08-03-87	-103	-13.6	--	--	--	--
29	08-03-87	-103	-13.9	--	--	--	--
30	08-03-87	-102	-13.8	--	--	--	--
31	08-03-87	-101	-13.7	--	--	--	--
32	08-03-87	-103	-13.8	--	--	--	--

Table 6. Isotopes in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Delta deuterium (permil)	Delta oxygen-18 (permil)	Delta carbon-13 (permil)	Carbon-14 (PMC)	Tritium (pCi/L)	Delta sulfur-34 (permil)
33	08-04-87	-103	-13.8	--	--	--	--
34	08-04-87	-102	-13.6	--	--	--	--
	08-09-88	-108	-13.8	--	--	67	--
35	08-04-87	-104	-13.8	--	--	--	--
36	08-04-87	-105	-14.0	--	--	--	--
37	08-05-87	-104	-13.8	--	--	--	--
38	08-04-87	-103	-14.0	--	--	--	--
39	08-04-87	-105	-14.0	--	--	--	--
40	08-05-87	-105	-13.8	--	--	--	--
41	08-05-87	-104	-13.8	--	--	--	--
42	08-05-87	-101	-13.8	--	--	--	--
43	07-06-88	-103	-13.6	--	--	--	--
44	08-05-88	-115	-15.3	-11.7	77	6.9	-1.0
45	05-03-88	-118	-15.6	--	--	.4	--
46	08-09-88	-107	-13.7	--	--	42	--
47	05-10-88	-112	-14.7	--	--	18	--
48	06-09-88	-120	-16.0	-16.5	--	<.3	21
49	06-13-88	-113	-15.3	-11.0	64	<.3	1.9
50	07-14-88	-103	-13.1	--	--	--	--
51	09-20-88	-114	-15.9	--	--	<.3	--
52	08-04-88	-121	-15.8	-10.0	46	<.3	4.7
53	05-05-88	-124	-15.8	--	--	<.3	--
54	07-20-88	-102	-13.1	--	--	--	--
55	06-09-88	-109	-14.7	--	--	<.3	--
	07-14-89	--	--	-16.0	--	--	--
56	07-28-88	-111	-14.3	-13.1	55	<.3	--
57	08-01-88	-109	-14.5	-13.1	99	11	--

Table 7. Carbamate insecticides in ground-water samples from Carson Valley

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 2)	Date	Methomyl, total, (µg/L)	Propham total, (µg/L)	Sevin, (µg/L)
1	07-19-88	<0.50	<0.50	<0.50
3	07-11-88	<.50	<.50	<.50
4	07-07-88	<.50	<.50	<.50
11	08-23-88	<.50	<.50	<.50
34	08-09-88	<.50	<.50	<.60
43	07-06-88	<.50	<.50	<.50
46	08-09-88	<.50	<.50	<.50
50	07-14-88	<.50	<.50	<.50
54	07-20-88	<.50	<.50	<.50

Table 8. Chlorophenoxy-acid herbicides in ground-water samples from Carson Valley

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than; --, not determined]

Site (fig. 2)	Date	2,4-D, total (µg/L)	2,4,5-T total (µg/L)	SILVEX, total (µg/L)	2,4-DP total (µg/L)
1	07-19-88	<0.01	<0.01	<0.01	<0.01
	07-11-89	<.01	<.01	<.01	<.01
3	07-11-88	<.01	<.01	<.01	<.01
	05-11-89	<.01	<.01	<.01	<.01
4	07-07-88	<.01	<.01	--	--
11	05-11-89	<.01	<.01	<.01	<.01
	08-23-88	<.01	<.01	<.01	<.01
34	05-11-89	<.01	<.01	<.01	<.01
	08-09-88	<.01	<.01	<.01	<.01
	08-14-89	<.01	<.01	<.01	<.01
43	07-06-88	<.01	<.01	<.01	<.01
	08-14-89	<.01	<.01	<.01	<.01
46	08-09-88	.04	<.01	<.01	<.01
	08-14-89	<.01	<.01	<.01	<.01
50	07-14-88	<.01	<.01	<.01	<.01
54	05-15-89	<.01	<.01	<.01	<.01
	07-20-88	<.01	<.01	<.01	<.01
	07-12-89	<.01	<.01	<.01	<.01

Table 9. Triazines and other nitrogen-containing pesticides in ground-water samples from Carson Valley

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 2)	Date	Alachlor, total recoverable (µg/L)	Ametryne, total (µg/L)	Atrazine, total (µg/L)	Cyanazine, total (µg/L)	Metachlor, total (µg/L)	Prometone, total (µg/L)	Prometryne, total (µg/L)	Propazine, total (µg/L)	Simazine, total (µg/L)	Simetryne total (µg/L)	Trifluralin, total recoverable (µg/L)
1	07-19-88	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	07-11-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
3	07-11-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	05-11-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
4	07-07-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
11	05-11-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	08-23-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
34	05-11-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	08-09-88	<.6	<.1	<.5	<.1	<.5	<.1	<.1	<.1	<.8	<.1	<.4
	08-14-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
43	07-06-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	08-14-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
46	08-09-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	.2	<.1	<.1
	08-14-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	.2	<.1	<.1
50	07-14-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
54	05-15-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	07-20-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	07-12-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1

Table 10. Organochlorine and organophosphorus compounds in ground-water samples from Carson Valley

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 2)	Date	PCB, dissolved (µg/L)	PCN, dissolved (µg/L)
1	07-11-89	<0.1	<0.1
3	07-11-89	<.1	<.1
	05-11-89	<.1	<.1
4	07-07-88	<.1	<.1
	05-11-89	<.1	<.1
11	08-23-88	<.1	<.1
	05-11-89	<.1	<.1
34	08-09-88	<.1	<.1
	08-14-89	<.1	<.1
43	07-06-88	<.1	<.1
46	08-14-89	<.1	<.1
	08-09-88	<.1	<.1
50	08-14-89	<.1	<.1
	07-14-88	<.1	<.1
54	05-15-89	<.1	<.1
	07-12-89	<.1	<.1

Table 11. Volatile organic compounds in ground-water samples from Carson Valley

[Abbreviations and symbols: µg/L, micrograms per liter; --, not determined; <, less than]

Site (fig. 2)	Date	Methyl-chloride, total (µg/L)	Methylene chloride, total (µg/L)	Chloroform, total (µg/L)	Carbon tetrachloride, total (µg/L)	Methyl bromide, total (µg/L)	Dibromomethane, whole-water (µg/L)	Bromoform, total (µg/L)	Dichlorobromomethane, total (µg/L)	Chlorodibromomethane, total (µg/L)
1	07-19-88	--	--	--	--	--	--	--	--	--
2	07-28-88	<0.2	<0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3	07-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
4	07-07-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
5	06-16-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
6	08-10-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
7	05-05-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
8	07-21-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
9	05-04-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
10	07-14-88	<.2	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
11	08-23-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
12	05-04-88	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
13	06-15-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	07-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
14	07-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
15	08-23-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
16	07-21-88	<.2	<.2	.2	<.2	<.2	<.2	<.2	<.2	<.2
17	06-16-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
19	07-27-88	<.2	<.4	<.2	<.2	<.2	<.2	<.2	<.2	<.2
20	08-10-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
21	05-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
22	07-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
23	05-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
24	09-06-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
34	08-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
43	07-06-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
44	08-05-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
45	05-03-88	<.2	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
46	08-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
47	05-10-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
48	06-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
49	06-13-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
50	07-14-88	<.2	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
51	09-20-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
52	08-04-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
53	05-05-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
54	07-20-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
55	06-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
56	07-28-88	<.2	<.4	<.2	<.2	<.2	<.2	<.2	<.2	<.2
57	08-01-88	<.2	<.3	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 11. Volatile organic compounds in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Trichlorofluoromethane, total (µg/L)	Dichlorodifluoromethane, total (µg/L)	Chloroethane, total (µg/L)	1,1-Dichloroethane, total (µg/L)	1,2-Dichloroethane, total (µg/L)	1,1,1-Trichloroethane, total (µg/L)	1,1,2-Trichloroethane, total (µg/L)	1,1,2,2-Tetrachloroethane, total (µg/L)	1,2-Dibromoethane, wholewater, total (µg/L)	Vinyl chloride, total (µg/L)
1	07-19-88	--	--	--	--	--	--	--	--	--	--
2	07-28-88	<0.2	<0.2	<0.2	<0.2	--	<0.2	<0.2	<0.2	--	<0.2
3	07-11-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<0.2	<.2
4	07-07-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
5	06-16-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
6	08-10-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
7	05-05-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
8	07-21-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
9	05-04-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
10	07-14-88	--	--	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
11	08-23-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
12	05-04-88	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0
13	06-15-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
	07-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
14	07-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
15	08-23-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
16	07-21-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
17	06-16-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
19	07-27-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
20	08-10-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
21	05-09-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
22	07-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
23	05-09-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
24	09-06-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
34	08-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
43	07-06-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
44	08-05-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
45	05-03-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
46	08-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
47	05-10-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
48	06-09-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
49	06-13-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
50	07-14-88	--	--	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
51	09-20-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
52	08-04-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
53	05-05-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
54	07-20-88	<.2	<.2	<.2	<.2	<.5	<.2	<.2	<.2	<.2	<.2
55	06-09-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
56	07-28-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
57	08-01-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 11. Volatile organic compounds in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	1,1-Dichloroethylene, total (µg/L)	Trichloroethylene, total (µg/L)	Tetrachloroethylene, total (µg/L)	1,2-Dibromoethylene, total (µg/L)	1,2-Dichloropropane, total (µg/L)	1,2,3-Trichloropropane, whole-water, total (µg/L)	Trans-1,3-Dichloropropene, total (µg/L)	Cis-1,3-Dichloropropene, total (µg/L)	Benzene, total (µg/L)
1	07-19-88	--	--	--	--	--	--	--	--	--
2	07-28-88	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
3	07-11-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
4	07-07-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
5	06-16-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
6	08-10-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
7	05-05-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
8	07-21-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
9	05-04-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
10	07-14-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
11	08-23-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
12	05-04-88	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
13	06-15-88	<.2	<.2	.6	<.2	<.2	<.2	<.2	<.2	<.2
	07-06-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
14	07-25-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
15	08-23-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
16	07-21-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
17	06-16-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
19	07-27-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
20	08-10-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
21	05-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
22	07-25-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
23	05-09-88	<.2	<.2	.9	<.2	<.2	<.2	<.2	<.2	<.2
24	09-06-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
34	08-09-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
43	07-06-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
44	08-05-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
45	05-03-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
46	08-09-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	--
47	05-10-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
48	06-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
49	06-13-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
50	07-14-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
51	09-20-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
52	08-04-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	.2
53	05-05-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
54	07-20-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
55	06-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
56	07-28-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
57	08-01-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2

Table 11. Volatile organic compounds in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	Xylene, whole-water, total (µg/L)	Ethyl benzene, total (µg/L)	Toluene, total (µg/L)	Styrene, total (µg/L)	Chloro-benzene, total (µg/L)	1,2-Di-chloro-benzene, total (µg/L)	1,3-Di-chloro-benzene, total (µg/L)	1,4-Di-chloro-benzene, total (µg/L)
1	07-19-88	--	--	--	--	--	<5	<5	<5
2	07-28-88	<0.2	<0.2	<0.2	<0.2	<0.2	<.2	<.2	<.2
3	07-11-88	<.2	<.2	--	<.2	<.2	<5	<5	<5
4	07-07-88	<.2	<.2	<.2	<.2	<.2	<10	<5	<5
5	06-16-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
6	08-10-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
7	05-05-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
8	07-21-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
9	05-04-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
10	07-14-88	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
11	08-23-88	<.2	<.2	--	<.2	<.2	<5	<5	<5
12	05-04-88	<1.0	<1.0	<1	<1	<1	<1	<1	<1
13	06-15-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	07-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
14	07-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
15	08-23-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
16	07-21-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
17	06-16-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
19	07-27-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
20	08-10-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
21	05-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
22	07-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
23	05-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
24	09-06-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
34	08-09-88	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
43	07-06-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
44	08-05-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
45	05-03-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
46	08-09-88	--	--	--	<.2	<.2	<5	<5	<5
47	05-10-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
48	06-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
49	06-13-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
50	07-14-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
51	09-20-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
52	08-04-88	.2	.2	--	<.2	<.2	<.2	<.2	<.2
53	05-05-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
54	07-20-88	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
55	06-09-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
56	07-28-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
57	08-01-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 12. Phenolic compounds in ground-water samples from Carson Valley

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 2)	Date	4-6 Dinitro-ortho-cresol, total (µg/L)	Para-chloro-meta-cresol, total (µg/L)	2-Chloro-phenol total (µg/L)	2,4-Di-chloro-phenol total (µg/L)	2,4-Di-methyl-phenol, total (µg/L)	2,4-Dini-tro-phenol, total (µg/L)
1	07-19-88	<30	<30	<5	<5	<5	<20
3	07-11-88	<30	<30	<5	<5	<5	<20
4	07-07-88	<30	<30	<5	<5	<5	<20
11	08-23-88	<30	<30	<5	<5	<5	<20
34	08-09-88	<30	<30	<5	<5	<5	<20
43	07-06-88	<30	<30	<5	<5	<5	<20
46	08-09-88	<30	<30	<5	<5	<5	<20
50	07-14-88	<30	<30	<5	<5	<5	<20
54	07-20-88	<30	<30	<5	<5	<5	<20

Site (fig. 2)	Date	2-Nitro-phenol, total (µg/L)	4-Nitro-phenol, total (µg/L)	Penta-chloro-phenol, total (µg/L)	Phenol, total (µg/L)	2,4,6-Tri-chlorophenol, total (µg/L)
1	07-19-88	<5	<30	<30	<5	<20
3	07-11-88	<5	<30	<30	<5	<20
4	07-07-88	<5	<30	<30	<5	<20
11	08-23-88	<5	<30	<30	<5	<20
34	08-09-88	<5	<30	<30	<5	<20
43	07-06-88	<5	<30	<30	<5	<20
46	08-09-88	<5	<30	<30	<5	<20
50	07-14-88	<5	<30	<30	<5	<20
54	07-20-88	<5	<30	<30	<5	<20

Table 13. Polynuclear aromatic compounds in ground-water samples from Carson Valley

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 2)	Date	Acenaphthylene, total (µg/L)	Acenaphthene, total (µg/L)	Anthracene, total (µg/L)	Benzo(a)anthracene, total (µg/L)	Benzo(a)pyrene, total (µg/L)	Benzo(b)fluoranthene, total (µg/L)	Benzo(g,h,i)perylene, total (µg/L)	Benzo(k)fluoranthene, total (µg/L)
1	07-19-88	<5	<5	<5	<5	<10	<10	<10	<10
3	07-11-88	<5	<5	<5	<5	<10	<10	<10	<10
4	07-07-88	<5	<5	<5	<5	<10	<10	<10	<10
11	08-23-88	<5	<5	<5	<5	<10	<10	<10	<10
34	08-09-88	<5	<5	<5	<5	<10	<10	<10	<10
43	07-06-88	<5	<5	<5	<5	<10	<10	<10	<10
46	08-09-88	<5	<5	<5	<5	<10	<10	<10	<10
50	07-14-88	<5	<5	<5	<5	<10	<10	<10	<10
54	07-20-88	<5	<5	<5	<5	<10	<10	<10	<10

Site (fig. 2)	Date	Bis 2-chloroisopropyl-ether, total (µg/L)	Bis 2-chloroethoxymethane, total (µg/L)	Bis 2-chloroethyl-ether, total (µg/L)	4-Bromophenyl phenyl ether, total (µg/L)	2-Chloronaphthalene, total (µg/L)	4-Chlorophenyl phenyl ether, total (µg/L)	Chrysene, total (µg/L)	1,2,5,6-Dibenzanthracene, total (µg/L)
1	07-19-88	<5	<5	<5	<5	<5	<5	<10	<10
3	07-11-88	<5	<5	<5	<5	<5	<5	<10	<10
4	07-07-88	<5	<5	<5	<5	<5	<5	<10	<10
11	08-23-88	<5	<5	<5	<5	<5	<5	<10	<10
34	08-09-88	<5	<5	<5	<5	<5	<5	<10	<10
43	07-06-88	<5	<5	<5	<5	<5	<5	<10	<10
46	08-09-88	<5	<5	<5	<5	<5	<5	<10	<10
50	07-14-88	<5	<5	<5	<5	<5	<5	<10	<10
54	07-20-88	<5	<5	<5	<5	<5	<5	<10	<10

Site (fig. 2)	Date	2,4-Dinitrotoluene, total (µg/L)	2,6-Dinitrotoluene, total (µg/L)	Fluoranthene, total (µg/L)	Fluorene, total (µg/L)	Hexachlorocyclopentadiene, total (µg/L)	Hexachloroethane total (µg/L)	Indeno(1,2,3-cd)pyrene, total (µg/L)	Isophorone, total (µg/L)
1	07-19-88	<5	<5	<5	<5	<5	<5	<10	<5
3	07-11-88	<5	<5	<5	<5	<5	<5	<10	<5
4	07-07-88	<5	<5	<5	<5	<5	<5	<10	<5
11	08-23-88	<5	<5	<5	<5	<5	<5	<10	<5
34	08-09-88	<5	<5	<5	<5	<5	<5	<10	<5
43	07-06-88	<5	<5	<5	<5	<5	<5	<10	<5
46	08-09-88	<5	<5	<5	<5	<5	<5	<10	<5
50	07-14-88	<5	<5	<5	<5	<5	<5	<10	<5
54	07-20-88	<5	<5	<5	<5	<5	<5	<10	<5

Table 13. Polynuclear aromatic compounds in ground-water samples from Carson Valley—Continued

Site (fig. 2)	Date	N-nitro-sodi-n-propyl-amine, total (µg/L)	N-nitro-sodi-phenyl-amine, total (µg/L)	N-nitro-sodi-methyl-amine (µg/L)	Naph-thalene, total (ug/L)	Phenan-threne, total (µg/L)	Bis (2-ethyl-hexyl) phtha-late, total (µg/L)	Diethyl-phtha-late, total (µg/L)
1	07-19-88	<5	<5	<5	<5	<5	<5	<5
3	07-11-88	<5	<5	<5	<5	<5	<5	<5
4	07-07-88	<5	<5	<5	<5	<5	<5	<5
11	08-23-88	<5	<5	<5	<5	<5	<12	<5
34	08-09-88	<5	<5	<5	<5	<5	<5	<5
43	07-06-88	<5	<5	<5	<5	<5	--	<5
46	08-09-88	<5	<5	<5	<5	<5	<5	<5
50	07-14-88	<5	<5	<5	<5	<5	<5	<5
54	07-20-88	<5	<5	<5	<5	<5	<30	<5

Site (fig. 2)	Date	Dimethyl-phtha-late, total (µg/L)	Di-n-butyl-phtha-late total (µg/L)	Di-n-octyl-pha-late total (µg/L)	Benzyl butyl phtha-late total (µg/L)	Pyrene, total (µg/L)	1,2,4-Tri-chloro-benzene, total (µg/L)
1	07-19-88	<5	<5	<10	<5	<5	<5
3	07-11-88	<5	<5	<10	<5	<5	<5
4	07-07-88	<5	<5	<10	<5	<5	<5
11	08-23-88	<5	<5	<10	<5	<5	<5
34	08-09-88	<5	<5	<10	<5	<5	<5
43	07-06-88	<5	<5	<10	<5	<5	<5
46	08-09-88	<5	<5	<10	<5	<5	<5
50	07-14-88	<5	<5	<10	<5	<5	<5
54	07-20-88	<5	<5	<10	<5	<5	<5

Table 14. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Eagle Valley

[**Local site identification:** Indicates township, range, section number, location within the section, and sequence number (see text for complete description of local site-identification system). **Total depth of well:** Sources of information on well depth are drillers' logs (on file at Nevada Division of Water Resources or the U.S. Geological Survey, Carson City, Nevada). Specific conductance, pH, water temperature, Eh, dissolved oxygen, hydrogen sulfide, bicarbonate, and carbonate were measured in field, except those marked 'L' were measured in laboratory. **Field measurements and sampling:** Duplicate samples for a site are indicated by a time difference of one minute. **Abbreviations and symbols:** mg/L, milligrams per liter; mV, millivolts; µS/cm, microsiemens per centimeter at 25 degrees Celsius; °C, degrees Celsius; --, not determined; <, less than; U, upland aquifers; S, shallow aquifers; P, principal aquifers]

Site (fig. 3)	Symbol	Latitude	Longitude	Local site identification	Altitude of land surface (feet)	Total depth of well (feet)	Date sampled	Time	Field measurements				
									Specific conductance (µS/cm)	pH (standard units)	Eh (mV)	Water temperature (°C)	Oxygen, dissolved (mg/L)
1	U	39°05′42″	119°47′20″	N14 E19 12ADAB1	4,900	155	05-03-88	1200	245	8.0	370	13.5	1.7
2	P	39°06′42″	119°45′54″	N14 E20 05BBAB1	4,800	290	08-17-88	1300	144	6.9	340	19.0	6.0
3	U	39°06′47″	119°50′05″	N15 E19 33DDDD1	5,760	290	08-11-88	1400	107	6.5	370	19.0	4.4
4	P	39°06′55″	119°46′31″	N15 E20 31DCC 1	4,770	60	08-15-88	1500	170	7.0	200	15.0	<1.0
5	P	39°07′33″	119°45′55″	N15 E20 32BBDA1	4,740	590	05-24-88	1500	205	7.2	--	14.0	1.6
6	P	39°07′43″	119°46′31″	N15 E20 31BABA1	4,860	205	08-11-88	1100	184	7.5	310	19.5	4.4
7	P	39°07′51″	119°44′54″	N15 E20 28CCBD1	4,720	152	08-19-88	1100	226	7.2	330	16.5	3.8
8	P	39°0802″	119°46′17″	N15 E20 29BBDB1	4,720	120	08-16-88	1500	178	7.4	--	15.5	4.3
9	P	39°08′03″	119°45′42″	N15 E20 29BCAC1	4,720	560	05-24-88	1030	218	7.5	350	17.0	1.5
						560	05-24-88	1031	218	7.5	350	17.0	1.5
10	P	39°08′52″	119°45′46″	N15 E20 20CACC1	4,680	99	08-18-88	1400	226	7.5	370	16.0	<1.0
11	S	39°08′55″	119°45′29″	N15 E20 20DBBD1	4,660	14	02-28-89	1430	780	7.3	--	12.5	4.9
							05-31-89	1345	762	7.3	--	15.5	4.5
12	P	39°08′57″	119°44′34″	N15 E20 21CABA1	4,680	67	08-26-88	1100	244	7.6	150	17.0	<1.0
13	S	39°08′57″	119°45′02″	N15 E20 21CBBC1	4,660	20	01-18-89	1005	540	7.0	--	12.5	4.5
							06-05-89	0935	542	6.8	--	17.0	5.6
14	S	39°09′15″	119°44′46″	N15 E20 21BACC1	4,640	18	03-07-89	1115	370	7.2	--	12.0	3.4
							05-31-89	1130	381	7.2	--	14.5	6.0
15	S	39°09′15″	119°45′55″	N15 E20 20BBDD1	4,660	16	02-24-89	1430	1,940	6.9	--	12.5	<1.0
							06-01-89	1345	2,046	6.8	--	14.0	2.1
16	S	39°09′17″	119°43′07″	N15 E20 22ABCA1	4,600	14	08-30-88	1400	470	7.3	380	18.0	<1.0
17	S	39°09′25″	119°45′20″	N15 E20 20ABAA1	4,650	15	01-18-89	1300	1,110 L	7.1	--	11.0	<1.0
							06-05-89	1145	1,020	7.0	--	14.5	1.7
18	P	39°09′33″	119°45′06″	N15 E20 17DDDA1	4,643	604	09-08-88	1500	181	8.1	370	27.0	3.5
19	U	39°09′38″	119°48′00″	N15 E19 13CDBB1	5,200	250	09-08-88	1100	276	6.9	230	16.5	<1.0

Table 14. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Symbol	Latitude	Longitude	Local site identification	Altitude of land surface (feet)	Total depth of well (feet)	Date sampled	Time	Field measurements				
									Specific conductance (µS/cm)	pH (standard units)	Eh (mV)	Water temperature (°C)	Oxygen, dissolved (mg/L)
20	S	39°09′43″	119°45′00″	N15 E20 16BCBC1	4,640	30	03-10-89	1345	460	7.2	--	13.0	1.3
							06-09-89	1040	470	7.2	--	15.5	1.1
21	S	39°09′43″	119°45′00″	N15 E20 16BCBC2	4,640	25	03-10-89	1500	732	7.0	--	12.5	<1.0
						25	06-09-89	1200	716	7.2	--	14.0	<1.0
22	S	39°09′43″	119°45′00″	N15 E20 16BCBC3	4,640	20	03-11-89	0900	728	7.2	--	13.0	<1.0
							06-09-89	1300	696	7.2	--	14.0	<1.0
23	S	39°09′43″	119°45′00″	N15 E20 16BCBC4	4,640	15	03-11-89	1045	1,278	7.3	--	11.0	<1.0
							06-09-89	1430	958	7.2	--	14.5	1.5
24	S	39°09′43″	119°45′38″	N15 E20 17CAD 1	4,670	21	02-28-89	1200	1,060	6.7	--	17.0	1.1
							06-01-89	1130	1,013	6.8	--	18.5	1.9
25	S	39°09′45″	119°46′28″	N15 E20 18DCA 1	4,720	20	02-27-89	1015	460	6.8	--	13.0	3.9
							02-27-89	1016	473 L	6.9 L	--	--	--
							02-27-89	1017	472 L	6.9 L	--	--	--
							06-02-89	1445	500	6.6	--	15.5	4.5
26	P	39°09′50″	119°45′29″	N15 E20 17DBBD1	4,660	820	08-28-87	1000	228 L	7.9	--	15.5	1.0
							05-13-88	0900	210	8.1	240	15.5	1.7
27	P	39°09′55″	119°42′15″	N15 E20 14CAAA1	4,600	500	06-08-88	1300	590	7.9	150	17.0	<1.0
28	S	39°09′57″	119°45′48″	N15 E20 17CABA1	4,670	35	03-03-89	1000	766	6.7	--	12.5	<1.0
							06-07-89	0830	812	6.7	--	15.0	1.2
29	S	39°09′57″	119°45′48″	N15 E20 17CABA2	4,670	30	03-03-89	1300	1,045	6.8	--	14.0	<1.0
							06-07-89	1015	1,111	6.6	--	16.0	<1.0
30	S	39°09′57″	119°45′48″	N15 E20 17CABA3	4,670	25	03-03-89	1415	1,126	6.9	--	14.5	<1.0
							06-07-89	1145	1,144	6.7	--	18.0	1.1
31	S	39°09′57″	119°45′48″	N15 E20 17CABA4	4,670	20	03-06-89	1415	1,070	7.0	--	14.0	3.9
							06-07-89	1230	1,073	6.9	--	14.5	1.2
32	S	39°10′05″	119°45′00″	N15 E20 16BBBB1	4,650	21	02-24-89	0930	390	7.4	--	13.5	<1.0
							06-01-89	0945	388	7.3	--	16.5	1.6
33	S	39°10′05″	119°46′57″	N15 E20 18ACAA1	4,730	21	03-08-89	1500	640	7.3	--	--	--
							06-08-89	0910	729 L	7.3 L	--	--	--
34	S	39°10′07″	119°46′53″	N15 E20 08BAC 1	4,720	30	02-27-89	1430	380	6.6	--	12.0	<1.0
							06-08-89	1500	237	6.3	--	12.1	2.0
35	S	39°10′08″	119°45′06″	N15 E20 17AADC4	4,650	29	09-03-87	1400	364 L	7.0	--	14.5	<1.0
36	P	39°10′08″	119°45′06″	N15 E20 17AADC5	4,650	58	09-02-87	1400	349 L	7.2	--	14.5	<1.0
37	S	39°10′10″	119°45′21″	N15 E20 17ABD 1	4,660	19	01-13-89	1400	466	6.5	--	11.0	2.1
							05-31-89	0930	670	6.6	--	15.0	4.3

Table 14. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Symbol	Latitude	Longitude	Local site identification	Altitude of land surface (feet)	Total depth of well (feet)	Date sampled	Time	Field measurements				
									Specific conductance (µS/cm)	pH (standard units)	Eh (mV)	Water temperature (°C)	Oxygen, dissolved (mg/L)
38	S	39°10′13″	119°45′50″	N15 E20 17BACC1	4,680	19	01-12-89	1500	1,090	6.9	--	10.0	--
							05-30-89	1245	754	6.7	--	11.5	2.4
39	P	39°10′14″	119°45′07″	N15 E20 17AADC1	4,650	700	08-25-88	1000	186	8.2	330	17.0	<1.0
40	U	39°10′17″	119°47′55″	N15 E19 12CDBD1	4,920	195	09-01-87	1300	167 L	6.7	--	18.0	7.2
41	P	39°10′31″	119°46′23″	N15 E20 07DDBB1	4,730	470	08-26-87	1100	214 L	7.2	--	16.0	7.4
							05-11-88	1030	206	7.4	290	17.5	4.6
42	S	39°10′35″	119°45′42″	N15 E20 08CADC1	4,700	19	01-19-89	1130	900	7.2	--	13.0	1.2
							06-05-89	1330	877	7.2	--	13.5	2.4
43	P	39°10′35″	119°47′15″	N15 E19 12DADD2	4,805	470	08-27-87	1500	196 L	6.8	--	14.0	8.6
							05-11-88	1400	190	7.0	290	13.0	5.8
44	P	39°10′36″	119°47′00″	N15 E20 07CACB1	4,787	92	09-04-87	0830	22,400 L	6.6	--	11.0	5.2
45	S	39°10′37″	119°46′15″	N15 E20 07DAAC1	4,730	21	03-10-89	1100	553	7.1	--	15.0	3.1
							06-06-89	1345	579	7.2	--	15.5	2.6
46	P	39°10′39″	119°44′02″	N15 E20 09DACC1	4,680	96	09-20-88	1100	350	8.5	470	13.0	1.6
47	S	39°10′39″	119°44′30″	N15 E20 09DBD 1	4,640	11	01-20-89	1145	1,730	7.6	--	12.5	<1.0
							06-06-89	1130	1,730	7.4	--	15.5	1.8
48	S	39°10′39″	119°44′57″	N15 E20 09CAD 1	4,640	35	01-19-89	1400	510	8.0	--	13.0	4.0
							06-06-89	0930	627	7.6	--	16.0	5.4
49	S	39°10′53″	119°43′25″	N15 E20 10BDDA1	4,640	18	03-07-89	1400	1,300	7.2	--	12.5	1.7
							06-02-89	1000	1,184	7.1	--	17.5	2.0
50	P	39°10′58″	119°42′46″	N15 E20 10ADDA2	4,610	1250	08-24-88	1300	658	8.2	290	22.5	<1.0
51	P	39°11′04″	119°45′48″	N15 E20 08BDBB1	4,720	227	09-02-88	0930	178	8.3	410	20.0	4.5
52	P	39°11′08″	119°42′07″	N15 E20 01CCBC1	4,690	455	08-24-88	1000	334	7.7	430	18.5	3.1
53	U	39°11′13″	119°48′19″	N15 E19 02DDDC1	5,240	250	09-07-88	1330	111	8.0	--	26.0	1.5
							09-07-88	1331	111	8.0	--	26.0	1.5
54	S	39°11′20″	119°46′17″	N15 E20 06DDAC1	4,730	18	03-09-89	1200	720	7.4	--	13.5	3.8
							06-02-89	1230	723	7.0	--	16.5	3.7
55	P	39°11′21″	119°42′28″	N15 E20 02CDCC1	4,620	125	08-19-88	1430	210	8.1	--	18.0	<1.0
56	P	39°11′23″	119°43′53″	N15 E20 03CCCB1	4,700	68	08-30-88	1100	1,010	7.1	390	14.5	5.9
57	P	39°11′33″	119°46′17″	N15 E20 06DAAC2	4,730	455	05-25-88	1030	191	8.2	--	28.0	1.7
58	U	39°12′01″	119°48′18″	N15 E19 02AAAA1	5,280	530	08-25-88	1315	125	6.7	380	18.5	3.5
59	P	39°12′04″	119°45′14″	N15 E20 05ABDA1	4,720	120	08-17-88	0930	237	7.4	320	22.0	2.4
60	P	39°12′10″	119°46′44″	N16 E19 36DAAC1	4,860	91	08-12-88	1000	259	6.9	300	20.0	2.6
61	P	39°12′22″	119°47′19″	N16 E20 31ACCB1	4,820	289	08-15-88	1100	215	7.4	260	21.5	3.4

Table 14. Field measurements, major constituents, nutrients, carbon compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Major constituents												
		Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity (mg/L as $CaCO_3$)	Bicarbonate, (mg/L as HCO_3)	Carbonate, (mg/L as CO_3)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Solids, dissolved, sum of constituents (mg/L)
1	05-03-88	54	18	2.0	34	1.8	83	101	0	21	13	1.5	33	174
2	08-17-88	72	20	5.3	20	1.0	86	105	0	8.9	5.6	.6	49	162
3	08-11-88	39	8.9	4.1	9.5	.9	56	68	0	1.2	1.1	.2	40	99
4	08-15-88	50	15	2.9	20	1.2	78	95	0	7.9	6.0	.3	32	132
5	05-24-88	70	20	4.9	18	1.2	93	114	0	4.7	2.9	.3	34	142
6	08-11-88	56	15	4.5	15	.7	73	89	0	3.4	3.4	.2	26	112
7	08-19-88	87	23	7.1	20	1.2	113	138	0	6.4	3.4	.3	52	181
8	08-16-88	61	15	5.6	15	1.1	67	82	0	7.1	4.0	.1	38	126
9	05-24-88	69	19	5.1	16	1.1	89	108	0	3.1	2.1	.2	36	136
	05-24-88	69	19	5.1	16	1.1	89	108	0	3.1	2.3	.3	35	135
10	08-18-88	67	18	5.2	26	1.3	85	104	0	19	5.4	.7	42	169
11	02-28-89	290	79	21	57	.7	317	386	0	76	31	.4	54	509
	05-31-89	280	79	20	57	.7	300	366	0	74	36	.4	56	503
12	08-26-88	92	24	7.6	15	.9	118	144	0	3.3	2.4	.1	44	168
13	01-18-89	240	67	17	38	.9	207	252	0	39	12	.2	50	348
	06-05-89	230	65	16	37	.7	278	339	0	37	11	.2	49	383
14	03-07-89	140	37	11	26	1.3	148	181	0	25	8.9	.2	41	239
	05-31-89	150	39	12	25	1.0	198	242	0	27	13	.1	41	277
15	02-24-89	530	160	32	260	4.5	424	517	0	670	53	.7	36	1,470
	06-01-89	570	170	35	310	3.3	421	513	0	760	63	.7	36	1,630
16	08-30-88	180	57	10	31	2.0	175	214	0	49	13	.5	55	323
17	01-18-89	460	130	33	62	3.4	394	481	0	110	71	.3	32	678
	06-05-89	450	130	30	61	2.7	462	564	0	96	67	.3	31	695
18	09-08-88	42	15	1.1	28	.9	76	93	0	16	4.7	.6	27	139
19	09-08-88	110	29	8.8	22	2.6	156	190	0	5.1	1.6	.3	35	198
20	03-10-89	220	55	19	21	1.9	202	246	0	12	17	.1	31	278
	06-09-89	210	53	18	21	1.9	236	288	0	12	17	.2	30	295
21	03-10-89	340	85	30	37	2.4	442	539	0	29	31	.1	32	512
	06-09-89	310	79	27	38	2.4	332	405	0	26	35	.1	31	438
22	03-11-89	320	79	29	46	2.3	453	552	0	28	37	.1	32	525

Table 14. Field measurements, major constituents, nutrients, carbon compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Major constituents—Continued												
		Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity (mg/L as $CaCO_3$)	Bicarbonate, (mg/L as HCO_3)	Carbonate, (mg/L as CO_3)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Solids, dissolved, sum of constituents (mg/L)
	06-09-89	300	76	26	39	2.4	331	404	0	25	35	0.1	31	433
23	03-11-89	510	120	50	97	1.4	558	681	0	38	89	.2	38	768
	06-09-89	350	87	33	69	1.1	346	422	0	53	76	.2	39	566
24	02-28-89	450	130	31	60	3.7	404	493	0	100	68	.2	35	670
	06-01-89	430	120	31	68	3.3	438	534	0	100	65	.2	32	682
25	02-27-89	200	53	17	20	1.1	141	172	0	32	19	.2	44	271
	02-27-89	210	54	17	20	1.2	140	171	0	31	19	.2	44	270
	02-27-89	190	51	16	19	1.2	141	172	0	31	19	.2	43	265
	06-02-89	220	58	18	21	1.1	188	229	0	32	24	.2	43	310
26	08-28-87	73	21	4.9	19	1.4	104	127	0	11	3.4	.1	23	146
	05-13-88	71	21	4.5	20	1.2	97	118	0	12	1.5	.3	23	142
27	06-08-88	200	74	2.5	51	2.4	121	147	0	160	14	.8	30	407
28	03-03-89	330	95	23	38	3.9	240	293	0	78	63	.2	39	484
	06-07-89	330	95	22	40	4.1	285	347	0	79	63	.2	38	512
29	03-03-89	420	120	28	72	4.6	290	354	0	110	110	.2	34	653
	06-07-89	390	110	27	73	4.9	422	515	0	110	120	.2	32	730
30	03-03-89	420	120	28	88	5.4	314	383	0	110	120	.2	31	691
	06-07-89	380	110	26	88	5.5	315	384	0	110	120	.2	29	678
31	03-06-89	340	100	22	95	4.0	323	394	0	100	93	.3	29	637
	06-07-89	370	110	22	97	3.9	325	396	0	110	92	.2	29	659
32	02-24-89	170	51	11	22	1.1	196	239	0	7.7	8.2	.3	35	254
	06-01-89	180	53	11	21	1.0	256	312	0	9.0	9.0	.2	33	291
33	03-08-89	320	84	26	23	3.7	344	420	0	11	6.4	.3	38	399
	06-08-89	350	94	27	25	4.2	383	467	0	8.0	5.7	.3	40	434
34	02-27-89	110	33	7.5	41	4.0	121	148	0	16	49	.1	29	252
	06-08-89	97	29	5.9	14	2.5	132	161	0	5.0	5.0	.1	30	171
35	09-03-87	150	44	9.5	16	--	--	--	--	--	--	--	34	--
36	09-02-87	140	41	9.0	24	--	--	--	--	--	--	--	32	--
37	01-13-89	160	48	10	24	5.8	164	200	0	16	25	.1	28	255
	05-31-89	280	81	18	30	6.5	179	218	0	18	97	.1	26	384

Table 14. Field measurements, major constituents, nutrients, carbon compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Major constituents—Continued												
		Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity (mg/L as $CaCO_3$)	Bicarbonate, (mg/L as HCO_3)	Carbonate, (mg/L as CO_3)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Solids, dissolved, sum of constituents (mg/L)
38	01-12-89	380	110	26	66	5.0	217	265	0	140	88	0.2	24	590
	05-30-89	240	68	16	62	3.6	204	249	0	61	73	.2	22	428
39	08-25-88	58	19	2.5	20	.8	97	118	0	3.2	1.1	.1	24	129
40	09-01-87	67	20	4.1	7.8	--	--	--	--	--	--	--	27	--
41	08-26-87	82	23	5.9	12	2.1	105	128	0	1.2	3.2	.1	28	138
	05-11-88	82	23	6.0	13	1.9	106	129	0	1.8	.90	.3	28	138
42	01-19-89	290	77	23	110	4.0	420	512	0	49	27	.1	40	582
	06-05-89	260	71	21	99	3.3	320	390	0	40	44	.1	38	508
43	08-27-87	77	22	5.2	9.0	2.5	89	109	0	4.9	4.5	.1	27	129
	05-11-88	80	23	5.4	9.2	2.1	90	109	0	5.2	1.0	.3	27	127
45	03-10-89	260	70	20	26	2.3	237	289	0	28	8.8	.1	42	339
	06-06-89	260	69	20	26	2.2	332	405	0	25	8.8	.1	41	391
46	09-20-88	85	30	2.2	42	2.6	103	116	5	46	16	.3	48	249
47	01-20-89	240	73	14	310	1.8	559	682	0	260	85	7.1	54	1,140
	06-06-89	240	74	14	330	1.6	703	857	0	240	83	7.5	52	1,220
48	01-19-89	170	54	9.3	43	2.3	181	221	0	34	23	.1	29	303
	06-06-89	220	70	12	50	2.0	324	395	0	51	29	.1	29	437
49	03-07-89	530	120	55	94	5.4	413	504	0	220	43	.5	58	844
	06-02-89	520	120	53	100	5.5	471	574	0	220	40	.5	59	880
50	08-24-88	140	51	4.0	79	5.0	49	60	0	240	14	.9	21	444
51	09-02-88	57	20	1.7	21	1.0	100	122	0	2.9	1.1	.1	27	135
52	08-24-88	110	37	4.0	26	2.1	85	104	0	58	8.4	.4	35	222
53	09-07-88	26	8.0	1.4	17	2.2	63	77	0	1.5	.90	.1	19	88
54	03-09-89	330	93	23	38	1.8	298	363	0	50	13	.2	53	450
	06-02-89	310	89	22	38	1.6	308	376	0	47	12	.2	52	447
55	08-19-88	68	22	3.0	22	5.0	81	99	0	27	6.8	.5	58	193
56	08-30-88	350	88	31	82	5.0	248	302	0	110	63	.2	46	574
57	05-25-88	46	17	.90	25	1.4	88	107	0	8.6	3.0	.3	33	142
58	08-25-88	39	9.2	3.9	11	2.8	57	70	0	1.0	2.4	.1	45	110
59	08-17-88	71	22	3.9	26	.7	102	124	0	10	3.9	.1	35	163
60	08-12-88	130	35	10	26	3.4	111	135	0	5.2	47	.1	35	228
61	08-15-88	76	17	8.1	15	5.4	89	108	0	5.6	3.2	.2	39	147

Table 14. Field measurements, major constituents, nutrients, carbon compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Nutrients and carbon compounds								
		Nitrogen, nitrate, dissolved (mg/L as N)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, un-ionized, dissolved (mg/L as N)	Nitrogen, organic, dissolved (mg/L as N)	Ortho-phosphorus, dissolved (mg/L as P)	Phosphorus, dissolved (mg/L as P)	Carbon, organic, dissolved (mg/L as C)	Cyanide, dissolved (mg/L as CN)
1	05-03-88	0.39	<0.01	<0.01	<0.01	<0.20	0.03	--	0.4	--
2	08-17-88	2.4	<.01	<.01	<.01	.20	.09	--	.5	--
3	08-11-88	.41	<.01	<.01	<.01	.20	.05	--	.5	--
4	08-15-88	.43	<.01	<.01	<.01	<.20	.03	--	.7	--
5	05-24-88	.85	<.01	.01	<.01	.39	.06	--	.6	--
6	08-11-88	3.0	<.01	<.01	<.01	1.0	.07	--	.6	--
7	08-19-88	.67	<.01	<.01	<.01	<.20	.09	--	.5	--
8	08-16-88	3.7	<.01	<.01	<.01	<.20	.09	--	.4	--
9	05-24-88	1.1	<.01	<.01	<.01	.30	.09	--	.6	--
	05-24-88	1.1	<.01	<.01	<.01	<.20	.09	--	.5	--
10	08-18-88	.48	<.01	<.01	<.01	<.20	.08	--	.5	--
11	02-28-89	18	<.01	.02	<.01	--	.19	--	1.8	<0.01
	05-31-89	17	<.01	.01	<.01	--	.18	--	1.8	<.01
12	08-26-88	.19	<.01	.01	<.01	.39	.03	--	.5	--
13	01-18-89	15	<.01	.01	<.01	--	.13	--	2.6	<.01
	06-05-89	5.5	<.01	.02	<.01	--	.12	--	1.9	<.01
14	03-07-89	3.2	<.01	<.01	<.01	--	.05	--	1.4	<.01
	05-31-89	3.3	<.01	<.01	<.01	--	.07	--	1.3	<.01
15	02-24-89	<.10	<.01	.09	<.01	--	.19	--	5.5	<.01
	06-01-89	<.10	<.01	.09	<.01	--	<.01	--	3.7	<.01
16	08-30-88	<.10	<.01	.02	<.01	<.20	.14	--	1.5	--
17	01-18-89	5.69	.01	.05	<.01	--	.26	--	3.6	<.01
	06-05-89	4.69	.01	.04	<.01	--	.25	--	3.1	<.01
18	09-08-88	<.10	<.01	.06	<.01	.34	.10	--	.7	--
19	09-08-88	<.10	<.01	.03	<.01	<.20	.02	--	.8	--
20	03-10-89	.26	<.01	<.01	<.01	--	.14	--	1.1	<.01
	06-09-89	<.10	<.01	<.01	<.01	--	.15	--	1.3	<.01
21	03-10-89	<.10	<.01	.05	<.01	--	.19	--	2.2	<.01
	06-09-89	<.10	<.01	.04	<.01	--	.10	--	2.1	<.01
22	03-11-89	<.10	<.01	.04	<.01	--	.19	--	2.2	<.01

Table 14. Field measurements, major constituents, nutrients, carbon compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Nutrients and carbon compounds—Continued								
		Nitrogen, nitrate, dissolved (mg/L as N)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, un-ionized, dissolved (mg/L as N)	Nitrogen, organic, dissolved (mg/L as N)	Ortho-phosphorus, dissolved (mg/L as P)	Phosphorus, dissolved (mg/L as P)	Carbon, organic, dissolved (mg/L as C)	Cyanide, dissolved (mg/L as CN)
	06-09-89	<0.10	<0.01	0.02	<0.01	--	0.08	--	2.3	<0.01
23	03-11-89	<.10	<.01	.03	<.01	--	.23	--	3.3	<.01
	06-09-89	<.10	<.01	<.01	<.01	--	.22	--	2.7	<.01
24	02-28-89	<.10	.01	.24	<.01	--	.39	--	1.8	<.01
	06-01-89	<.10	<.01	.18	<.01	--	.02	--	2.8	<.01
25	02-27-89	12	<.01	<.01	<.01	--	.03	--	1.4	<.01
	02-27-89	12	.01	<.01	--	--	.03	--	1.0	<.01
	02-27-89	11	<.01	<.01	--	--	.03	--	1.7	<.01
	06-02-89	11	<.01	.01	<.01	--	.03	--	1.8	<.01
26	08-28-87	<.10	<.01	<.01	<.01	0.30	.11	0.11	--	--
	05-13-88	<.10	<.01	.04	<.01	<.20	.10	--	.4	--
27	06-08-88	<.10	<.01	.06	<.01	<.20	<.01	--	1.5	--
28	03-03-89	<.10	.01	.21	<.01	--	.06	--	1.8	<.01
	06-07-89	<.10	<.01	.22	<.01	--	.04	--	2.1	<.01
29	03-03-89	<.10	.01	.26	<.01	--	.09	--	2.1	<.01
	06-07-89	<.10	<.01	.18	<.01	--	<.01	--	2.3	<.01
30	03-03-89	<.10	.01	.19	<.01	--	.10	--	2.2	<.01
	06-07-89	.23	<.01	.17	<.01	--	.04	--	2.4	<.01
31	03-06-89	38	.05	.03	<.01	--	.09	--	2.6	<.01
	06-07-89	3.70	.04	.02	<.01	--	.10	--	2.6	<.01
32	02-24-89	<.10	<.01	.04	<.01	--	.19	--	17	<.01
	06-01-89	<.10	<.01	.05	<.01	--	.20	--	1.4	<.01
33	03-08-89	.13	<.01	.08	--	--	.01	--	3.6	<.01
	06-08-89	<.10	<.01	.09	--	--	.01	--	3.7	<.01
34	02-27-89	.28	.01	.04	<.01	--	.01	--	1.1	<.01
	06-08-89	<.10	<.01	.02	<.01	--	<.01	--	1.0	<.01
35	09-03-87	<.10	<.01	.03	<.01	<.20	.10	.14	2.5	--
36	09-02-87	<.10	<.01	.04	<.01	<.20	.13	.16	1.4	--
37	01-13-89	1.9	<.01	.01	<.01	--	.06	--	1.5	<.01
	05-31-89	2.4	<.01	<.01	<.01	--	.05	--	1.3	<.01

Table 14. Field measurements, major constituents, nutrients, carbon compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Nutrients and carbon compounds—Continued								
		Nitrogen, nitrate, dissolved (mg/L as N)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, un-ionized, dissolved (mg/L as N)	Nitrogen, organic, dissolved (mg/L as N)	Ortho-phosphorus, dissolved (mg/L as P)	Phosphorus, dissolved (mg/L as P)	Carbon, organic, dissolved (mg/L as C)	Cyanide, dissolved (mg/L as CN)
38	01-12-89	17	<0.01	0.04	<0.01	--	0.05	--	3.9	<0.01
	05-30-89	5.4	<.01	<.01	<.01	--	.05	--	2.2	<.01
39	08-25-88	.15	<.01	<.01	<.01	<0.20	.12	--	.5	--
40	09-01-87	1.0	<.01	.01	<.01	<.20	.04	0.01	.9	--
41	08-26-87	.49	<.01	.01	<.01	.49	.04	.04	.5	--
	05-11-88	.52	<.01	.02	<.01	<.20	.04	--	.4	--
42	01-19-89	3.2	<.01	.01	<.01	--	.05	--	2.6	<.01
	06-05-89	2.7	<.01	.02	<.01	--	.04	--	2.3	<.01
43	08-27-87	.85	<.01	<.01	<.01	.50	.02	.03	1.1	--
	05-11-88	.52	<.01	.02	<.01	<.20	.04	--	.4	--
44	09-04-87	.88	<.01	.01	<.01	<.20	.03	.03	1.2	--
45	03-10-89	7.2	<.01	<.01	<.01	--	.07	--	1.3	<.01
	06-06-89	8.4	<.01	.01	<.01	--	.07	--	1.0	<.01
46	09-20-88	<.10	.01	.01	<.01	<.20	.03	--	.4	--
47	01-20-89	<.10	<.01	.03	<.01	--	.13	--	5.4	<.01
	06-06-89	<.10	<.01	.02	<.01	--	.15	--	5.1	<.01
48	01-19-89	5.4	<.01	.04	<.01	--	.05	--	1.1	<.01
	06-06-89	7.3	<.01	.01	<.01	--	.04	--	1.2	<.01
49	03-07-89	11	<.01	.02	<.01	--	.05	--	2.9	<.01
	06-02-89	10	<.01	.04	<.01	--	.07	--	3.0	<.01
50	08-24-88	<.10	<.01	.04	<.01	<.20	<.01	--	.3	--
51	09-02-88	.31	<.01	<.01	<.01	<.20	.02	--	.4	--
52	08-24-88	1.8	<.01	<.01	<.01	.20	.02	--	.3	--
53	09-07-88	<.10	<.01	<.01	<.01	<.20	.10	--	.5	--
54	03-09-89	8.5	<.01	.03	<.01	--	.04	--	2.0	<.01
55	06-02-89	8.6	<.01	.03	<.01	--	.05	--	1.4	<.01
56	08-19-88	<.10	<.01	.01	<.01	<.20	.03	--	.6	--
57	08-30-88	20	<.01	.02	<.01	1.08	.12	--	2.4	--
58	05-25-88	.34	<.01	<.01	<.01	<.20	.02	--	.5	--
	08-25-88	1.4	<.01	<.01	<.01	.60	.07	--	.7	--
59	08-17-88	1.7	<.01	<.01	<.01	<.20	.06	--	.4	--
60	08-12-88	1.70	.03	.01	<.01	.29	.03	--	.6	--
61	08-15-88	4.0	<.01	<.01	<.01	.30	.12	--	.5	--

Table 15. Minor constituents in ground-water samples from Eagle Valley

[Additional dissolved arsenic analyses shown in parentheses; arsenite and arsenate values are for analyses by Battelle Marine Research Laboratory, Sequim, Washington. Additional dissolved iron analyses shown in parentheses; ferrous, and ferric iron values are for analyses by the U.S. Geological Survey, Carson City, Nevada. Abbreviations and symbols: µg/L, micrograms per liter; --, not determined; <, less than]

Site (fig. 3)	Date	Aluminum dissolved (µg/L as Al)	Antimony, dissolved (µg/L as Sb)	Arsenic, dissolved (µg/L as As)	Arsenite arsenic, dissolved (µg/L as As)	Arsenate arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)
1	05-03-88	--	<1	4	--	--	22	<0.5	210	<1
2	08-17-88	--	<1	6	--	--	41	<.5	60	<1
3	08-11-88	--	<1	<1	--	--	17	<.5	<10	<1
4	08-15-88	--	<1	2	--	--	24	<.5	30	<1
5	05-24-88	--	<1	2	--	--	53	<.5	20	<1
6	08-11-88	--	<1	1	--	--	20	<.5	20	<1
7	08-19-88	--	<1	1	--	--	72	<.5	30	<1
8	08-16-88	--	<1	2	--	--	42	<.5	20	<1
9	05-24-88	--	<1	2	--	--	37	<.5	10	<1
	05-24-88	--	<1	2	--	--	37	<.5	10	<1
10	08-18-88	--	1	15 (17)	<0.4	--	51	<.5	70	<1
11	02-28-89	--	<1	9	--	--	160	<.5	160	<1
	05-31-89	--	2	9	--	--	150	<.5	160	<1
12	08-26-88	--	<1	2	--	--	69	<.5	10	<1
13	01-18-89	--	<1	<1	--	--	140	<.5	60	<1
14	06-05-89	--	<1	<1	--	--	150	<.5	70	<1
	03-07-89	--	<1	1	--	--	110	<.5	30	<1
15	05-31-89	--	<1	<1	--	--	100	<.5	20	<1
	02-24-89	--	<1	15	--	--	59	<.5	180	<1
	06-01-89	--	3	15	--	--	58	<1.5	190	<3
16	08-30-88	--	<1	10 (10)	1.4	8.6	80	<.5	220	<1
17	01-18-89	--	<1	2	--	--	110	<.5	20	<1
	06-05-89	--	<1	1	--	--	100	<.5	20	<1
18	09-08-88	--	2	39 (31)	16	15	27	<.5	60	<1
19	09-08-88	--	<1	7 (5.7)	1.3	4.4	90	<.5	<10	<1
20	03-10-89	--	<1	5	--	--	75	<.5	10	<1
	06-09-89	--	1	5	--	--	81	<.5	20	<1
21	03-10-89	--	<1	11	--	--	150	<.5	30	<1
	06-09-89	--	<1	10	--	--	140	<.5	60	1
22	03-11-89	--	1	13	--	--	140	<.5	40	<1
	06-09-89	--	<1	14	--	--	150	<.5	40	2
23	03-11-89	--	<1	7	--	--	79	<.5	60	<1
	06-09-89	--	<1	6	--	--	52	<.5	60	<1
24	02-28-89	--	<1	17	--	--	250	<.5	40	<1
	06-01-89	--	<1	20	--	--	260	<.5	40	<1
25	02-27-89	--	<1	<1	--	--	52	<.5	20	<1
	02-27-89	--	<1	<1	--	--	53	<.5	20	<1
	02-27-89	--	<1	<1	--	--	51	<.5	20	<1
	06-02-89	--	<1	<1	--	--	57	<.5	20	<1
26	08-28-87	<10	--	10	--	--	26	<.5	20	<1

Table 15. Minor constituents in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Aluminum dissolved (µg/L as Al)	Antimony, dissolved (µg/L as Sb)	Arsenic, dissolved (µg/L as As)	Arsenite arsenic, dissolved (µg/L as As)	Arsenate arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)
	05-13-88	--	<1	11 (8.8)	<0.4	--	29	<0.5	20	<1
27	06-08-88	--	2	5	--	--	36	<.5	290	<1
28	03-03-89	--	<1	16	--	--	240	<.5	10	<1
	06-07-89	--	2	16	--	--	250	<.5	10	<1
29	03-03-89	--	<1	9	--	--	280	<.5	50	1
	06-07-89	--	<1	9	--	--	270	<.5	50	<1
30	03-03-89	--	<1	5	--	--	270	<.5	80	<1
	06-07-89	--	<1	5	--	--	270	<.5	80	<1
31	03-06-89	--	<1	<1	--	--	180	<.5	90	<1
	06-07-89	--	<1	<1	--	--	180	<.5	90	<1
32	02-24-89	--	<1	2	--	--	61	<.5	20	<1
	06-01-89	--	<1	2	--	--	62	<.5	10	<1
33	03-08-89	--	<1	2	--	--	95	<.5	30	1
	06-08-89	--	<1	1	--	--	110	<.5	30	1
34	02-27-89	--	<1	<1	--	--	29	<.5	10	1
	06-08-89	--	<1	<1	--	--	24	<.5	10	<1
35	09-03-87	<10	--	--	--	--	55	<.5	20	<1
36	09-02-87	<10	--	--	--	--	53	<.5	30	<1
37	01-13-89	--	<1	<1	--	--	62	<.5	20	<1
	05-31-89	--	<1	<1	--	--	100	<.5	<10	<1
38	01-12-89	--	<1	1	--	--	160	<.5	120	<1
	05-30-89	--	<1	<1	--	--	92	<.5	50	<1
39	08-25-88	--	<1	8	--	--	28	<.5	10	<1
40	09-01-87	<10	--	--	--	--	24	<.5	10	<1
41	08-26-87	<10	--	1	--	--	15	<.5	10	<1
	05-11-88	--	<1	1	--	--	21	<.5	<10	<1
42	01-19-89	--	<1	<1	--	--	93	<.5	150	<1
	06-05-89	--	<1	<1	--	--	82	<.5	150	<1
43	08-27-87	<10	--	1	--	--	17	<.5	10	<1
	05-11-88	--	<1	1	--	--	23	<.5	10	<1
	03-10-89	--	<1	<1	--	--	54	<.5	<10	<1
45	06-06-89	--	<1	1	--	--	53	<.5	20	<1
	09-20-88	--	8	36 (49)	7	42	170	<.5	100	<1
46	01-20-89	--	4	140	--	--	120	<.5	2,900	<1
47	06-06-89	--	2	110	--	--	120	<.5	2,700	<1
48	01-19-89	--	<1	5	--	--	21	<.5	20	<1
	06-06-89	--	<1	4	--	--	41	<.5	30	<1
49	03-07-89	--	<1	9	--	--	320	<.5	260	<1
	06-02-89	--	<1	11	--	--	310	<.5	320	<1
50	08-24-88	--	<1	2	--	--	14	<.5	340	<1

Table 15. Minor constituents in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Aluminum dissolved (µg/L as Al)	Antimony, dissolved (µg/L as Sb)	Arsenic, dissolved (µg/L as As)	Arsenite arsenic, dissolved (µg/L as As)	Arsenate arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)
51	09-02-88	--	<1	9	--	--	17	<0.5	10	<1
52	08-24-88	--	<1	5	--	--	54	<.5	70	<1
53	09-07-88	--	<1	3	--	--	8	<.5	10	<1
54	03-09-89	--	<1	1	--	--	88	<.5	40	<1
	06-02-89	--	<1	<1	--	--	86	<.5	40	<1
55	08-19-88	--	2	19 (20)	5	16	74	<.5	50	<1
56	08-30-88	--	<1	2	--	--	180	<.5	80	<1
57	05-25-88	--	1	19 (23)	3	20	31	<.5	40	<1
58	08-25-88	--	<1	9	--	--	13	<.5	<10	1
59	08-17-88	--	2	32 (28)	<.4	28	43	<.5	30	<1
60	08-12-88	--	<1	2	--	--	50	<.5	10	<1
61	08-15-88	--	<1	1	--	--	17	<.5	20	<1

Table 15. Minor constituents in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Ferrous iron, dissolved (µg/L as Fe)	Ferric iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)
1	05-03-88	<5	<3	<10	15 (10)	9	1	<10	140
2	08-17-88	<5	<3	<10	10 (12)	6	6	<10	65
3	08-11-88	<5	<3	<10	4	--	--	<10	24
4	08-15-88	<5	<3	<10	12 (8.3)	5.7	2.5	<10	58
5	05-24-88	<5	<3	<10	<3	--	--	<10	32
6	08-11-88	<5	<3	<10	9	--	--	<10	7
7	08-19-88	<5	<3	<10	5	--	--	20	32
8	08-16-88	<5	<3	<10	<3	--	--	<10	8
9	05-24-88	<5	<3	<10	3	--	--	<10	<4
	05-24-88	<5	<3	<10	7	--	--	<10	<4
10	08-18-88	<5	<3	<10	12	--	--	10	7
11	02-28-89	<5	<3	<10	16	--	--	<10	14
	05-31-89	<5	<3	<10	23	--	--	<10	16
12	08-26-88	<5	<3	<10	78 (79)	53	26	<10	18
13	01-18-89	<5	<3	<10	8	--	--	<10	19
	06-05-89	<5	<3	<10	7	--	--	<10	19
14	03-07-89	<5	<3	<10	7	--	--	<10	17
	05-31-89	<5	<3	<10	19	--	--	<10	21
15	02-24-89	<5	15	<10	2,600	--	--	<10	43
	06-01-89	<15	<3	<30	3,000	--	--	<30	42
16	08-30-88	<5	<3	<10	4	--	--	10	35
17	01-18-89	<5	<3	<10	18	--	--	<10	31
	06-05-89	<5	<3	<10	8	--	--	<10	29
18	09-08-88	<5	<3	<10	110 (29)	18	11	<10	<4
19	09-08-88	<5	<3	<10	1,800 (1,900)	1,600	270	<10	12
20	03-10-89	<5	<3	<10	18	--	--	<10	20
	06-09-89	<5	<3	<10	13	--	--	<10	19
21	03-10-89	<5	<3	<10	660	--	--	<10	18
	06-09-89	<5	<3	<10	640	--	--	<10	17
22	03-11-89	<5	<3	<10	610	--	--	<10	17
	06-09-89	<5	<3	<10	310	--	--	10	15
23	03-11-89	<5	<3	<10	26	--	--	<10	32
	06-09-89	<5	<3	<10	19	--	--	<10	25
24	02-28-89	<5	<3	<10	10,000	--	--	<10	11
	06-01-89	<5	<3	<10	9,000	--	--	30	10
25	02-27-89	<5	<3	<10	41	--	--	--	26
	02-27-89	<5	<3	<10	15	--	--	<10	26
	02-27-89	<5	<3	<10	33	--	--	20	24
	06-02-89	<5	<3	<10	30	--	--	<10	26
26	08-28-87	<5	<3	<10	6	--	--	<10	8

Table 15. Minor constituents in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Ferrous iron, dissolved (µg/L as Fe)	Ferric iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)
	05-13-88	<5	<3	<10	9	--	--	<10	8
27	06-08-88	<5	<3	<10	64	--	--	<10	47
28	03-03-89	<5	<3	<10	12,000	--	--	<10	7
	06-07-89	<5	<3	<10	9,700	--	--	<10	11
29	03-03-89	<5	<3	<10	8,900	--	--	<10	9
	06-07-89	<5	<3	<10	8,300	--	--	<10	13
30	03-03-89	<5	<3	<10	7,700	--	--	<10	9
	06-07-89	<5	<3	<10	7,400	--	--	<10	12
31	03-06-89	<5	<3	<10	23	--	--	<10	36
	06-07-89	<5	<3	<10	11	--	--	<10	37
32	02-24-89	<5	<3	<10	20	--	--	<10	11
	06-01-89	<5	<3	<10	10	--	--	<10	10
33	03-08-89	<5	<3	<10	2,200	--	--	<10	25
	06-08-89	<5	<3	<10	1,800	--	--	<10	29
34	02-27-89	<5	<3	<10	31	--	--	20	9
	06-08-89	<5	<3	<10	40	--	--	<10	6
35	09-03-87	<5	<3	<10	45	--	--	<10	15
36	09-02-87	<5	<3	<10	3	--	--	<10	10
37	01-13-89	<5	<3	<10	61	--	--	<10	32
	05-31-89	<5	<3	<10	24	--	--	10	38
38	01-12-89	<5	<3	<10	28	--	--	<10	33
	05-30-89	<5	<3	<10	13	--	--	<10	23
39	08-25-88	<5	<3	<10	<3	--	--	<10	5
40	09-01-87	<5	<3	<10	<3	--	--	<10	<4
41	08-26-87	<5	<3	<10	<3	--	--	<10	8
	05-11-88	<5	<3	<10	4 (3)	3	<1	<10	13
42	01-19-89	<5	<3	<10	29	--	--	<10	50
	06-05-89	<5	<3	<10	8	--	--	<10	47
43	08-27-87	<5	<3	<10	<3	--	--	<10	4
	05-11-88	<5	<3	<10	<3	--	--	<10	8
45	03-10-89	6	<3	<10	14	--	--	<10	52
46	06-06-89	<5	<3	<10	35	--	--	<10	49
47	09-20-88	<5	<3	<10	22 (17)	15	2	<10	<4
	01-20-89	<5	<3	<10	31	--	--	<10	93
	06-06-89	<5	<3	<10	23	--	--	<10	92
48	01-19-89	<5	<3	<10	45	--	--	<10	24
	06-06-89	<5	<3	<10	7	--	--	<10	27
49	03-07-89	<5	<3	<10	6	--	--	<10	18
	06-02-89	<5	<3	<10	12	--	--	<10	21
50	08-24-88	<5	<3	<10	9	--	--	<10	6

Table 15. Minor constituents in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Ferrous iron, dissolved (µg/L as Fe)	Ferric iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)
51	09-02-88	<5	<3	<10	4	--	--	<10	9
52	08-24-88	<5	<3	<10	4	--	--	<10	4
53	09-07-88	<5	<3	<10	75 (30)	3.5	27	<10	16
54	03-09-89	<5	<3	<10	10	--	--	<10	37
	06-02-89	<5	<3	<10	11	--	--	<10	39
55	08-19-88	<5	<3	<10	13	0	--	<10	<4
56	08-30-88	<5	<3	<10	24 (29)	27	2	<10	7
57	05-25-88	<5	<3	<10	<3	--	--	<10	11
58	08-25-88	<5	<3	<10	4	--	--	<10	26
59	08-17-88	<5	<3	<10	7	--	--	<10	11
60	08-12-88	<5	<3	<10	16 (11)	9.6	1.5	<10	30
61	08-15-88	<5	<3	<10	5	--	--	<10	21

Table 15. Minor constituents in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date sampled	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Selenium, dissolved (µg/L as Se)	Silver, dissolved (µg/L as Ag)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
1	05-03-88	2	<0.1	20	<10	<1	<1	300	<6	30
2	08-17-88	1	<.1	<10	<10	<1	<1	310	<6	270
3	08-11-88	<1	<.1	<10	<10	<1	<1	140	<6	5
4	08-15-88	230	<.1	<10	<10	<1	<1	220	<6	9
5	05-24-88	16	<.1	<10	<10	<1	1	240	6	4
6	08-11-88	2	<.1	<10	<10	<1	<1	280	<6	72
7	08-19-88	<1	<.1	<10	<10	<1	<1	300	7	73
8	08-16-88	<1	<.1	<10	<10	<1	<1	240	<6	37
9	05-24-88	7	<.1	<10	<10	<1	<1	230	<6	7
	05-24-88	7	<.1	<10	<10	<1	1	230	<6	8
10	08-18-88	4	<.1	20	<10	<1	<1	190	<6	21
11	02-28-89	3	<.1	<10	<10	<1	<1	1,100	15	6
	05-31-89	1	<.1	<10	<10	<1	<1	1,000	19	11
12	08-26-88	32	<.1	<10	<10	<1	<1	300	7	6
13	01-18-89	2	<.1	<10	<10	<1	<1	880	8	17
	06-05-89	1	<.1	<10	<10	<1	3	850	<6	<3
14	03-07-89	200	<.1	10	30	<1	<1	510	6	13
	05-31-89	16	<.1	<10	<10	<1	<1	510	8	19
15	02-24-89	1,500	<.1	30	<10	<1	3	1,200	<6	27
	06-01-89	1,300	<.1	<30	<30	<1	<3	1,400	<18	26
16	08-30-88	87	<.1	<10	<10	<1	<1	830	11	<3
17	01-18-89	710	<.1	<10	<10	<1	<1	1,100	<6	12
	06-05-89	340	<.1	<10	<10	<1	4	1,000	<6	4
18	09-08-88	89	<.1	<10	<10	<1	<1	150	<6	5
19	09-08-88	1,600	<.1	10	<10	<1	<1	300	<6	250
20	03-10-89	330	<.1	<10	<10	<1	<1	550	<6	29
	06-09-89	260	<.1	<10	<10	<1	2	540	<6	13
21	03-10-89	880	<.1	<10	<10	<1	<1	940	<6	10
	06-09-89	830	<.1	10	<10	<1	<1	860	<6	6
22	03-11-89	1,000	<.1	<10	<10	<1	2	910	<6	12
	06-09-89	830	<.1	<10	<10	<1	2	840	24	8
23	03-11-89	68	<.1	<10	<10	<1	<1	1,500	<6	7
	06-09-89	12	<.1	<10	<10	<1	<1	1,100	7	5
24	02-28-89	3,400	.1	<10	<10	<1	<1	1,200	<6	22
	06-01-89	3,400	<.1	<10	<10	<1	3	1,200	<6	67
25	02-27-89	4	<.1	<10	<10	<1	4	560	<6	25
	02-27-89	2	<.1	<10	<10	<1	<1	570	<6	11
	02-27-89	3	<.1	<10	<10	<1	2	550	<6	18
	06-02-89	2	<.1	<10	<10	<1	<1	620	<6	4
26	08-28-87	12	--	<10	<10	<1	<1	190	9	<3

Table 15. Minor constituents in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date sampled	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Selenium, dissolved (µg/L as Se)	Silver, dissolved (µg/L as Ag)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
27	05-13-88	11	<0.1	<10	<10	<1	<1	190	9	8
28	06-08-88	66	<.1	10	<10	<1	<1	630	<6	<3
	03-03-89	970	<.1	<10	<10	<1	<1	880	<6	14
29	06-07-89	1,000	<.1	<10	<10	<1	<1	870	<6	9
	03-03-89	1,000	<.1	<10	<10	<1	2	1,000	<6	5
	06-07-89	970	<.1	<10	<10	<1	<1	1,000	<6	11
30	03-03-89	760	<.1	<10	<10	<1	<1	1,000	<6	8
	06-07-89	700	<.1	<10	<10	<1	<1	980	<6	<3
31	03-06-89	170	<.1	<10	<10	<1	<1	890	<6	3
	06-07-89	140	<.1	<10	<10	<1	<1	890	<6	14
32	02-24-89	380	<.1	<10	<10	<1	2	490	<6	11
	06-01-89	430	<.1	<10	<10	<1	<1	500	<6	9
33	03-08-89	1,200	<.1	<10	<10	<1	3	860	<6	34
	06-08-89	1,600	<.1	<10	<10	<1	<1	940	<6	25
34	02-27-89	410	<.1	<10	<10	<1	2	300	<6	14
35	06-08-89	190	<.1	<10	<10	<1	<1	260	<6	6
36	09-03-87	460	--	<10	<10	<1	<1	400	<6	11
37	09-02-87	460	--	<10	<10	<1	<1	390	<6	5
	01-13-89	3	.1	<10	<10	<1	<1	490	<6	37
	05-31-89	4	<.1	<10	10	<1	2	790	<6	24
38	01-12-89	28	<.1	<10	<10	2	1	980	<6	50
	05-30-89	12	<.1	<10	<10	<1	<1	570	<6	17
39	08-25-88	1	<.1	<10	<10	<1	<1	180	11	3
40	09-01-87	1	--	<10	<10	--	<1	250	<6	170
41	08-26-87	<1	--	<10	<10	<1	1	190	7	<3
	05-11-88	<1	<.1	<10	<10	<1	<1	200	8	<10
42	01-19-89	1	<.1	<10	<10	<1	<1	870	8	13
	06-05-89	2	<.1	<10	<10	<1	1	800	<6	6
43	08-27-87	<1	--	<10	<10	<1	2	210	<6	7
	05-11-88	<1	<.1	<10	<10	<1	2	210	<6	14
45	03-10-89	30	<.1	<10	<10	<1	<1	980	9	25
	06-06-89	26	<.1	<10	10	<1	<1	980	9	13
46	09-20-88	29	<.1	20	<10	<1	1	360	<6	32
47	01-20-89	540	.1	100	<10	<1	<1	700	16	8
	06-06-89	540	<.1	100	10	<1	2	730	14	5
48	01-19-89	2	<.1	<10	<10	1	<1	460	10	7
	06-06-89	4	<.1	<10	<10	1	2	640	6	6
49	03-07-89	46	<.1	20	<10	1	<1	1,600	26	16
	06-02-89	39	<.1	20	<10	2	2	1,600	31	10
50	08-24-88	25	<.1	40	<10	<1	<1	630	<6	<3

Table 15. Minor constituents in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date sampled	Manganese, dissolved (µg/L as Mn)	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Selenium, dissolved (µg/L as Se)	Silver, dissolved (µg/L as Ag)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
51	09-02-88	<1	<0.1	<10	<10	<1	<1	200	9	8
52	08-24-88	<1	<.1	<10	<10	<1	<1	330	17	28
53	09-07-88	6	<.1	<10	<10	<1	<1	75	15	31
54	03-09-89	66	<.1	<10	<10	<1	2	1,100	10	14
	06-02-89	40	<.1	<10	<10	<1	<1	1,100	9	9
55	08-19-88	220	<.1	<10	<10	<1	<1	170	<6	11
56	08-30-88	1	<.1	<10	<10	2	<1	920	9	32
57	05-25-88	4	<.1	<10	<10	<1	<1	160	7	<3
58	08-25-88	<1	<.1	<10	<10	<1	<1	150	8	45
59	08-17-88	<1	<.1	<10	<10	<1	<1	260	<6	16
60	08-12-88	8	<.1	<10	<10	<1	<1	400	6	510
61	08-15-88	3	<.1	<10	<10	<1	<1	240	20	86

Table 16. Radionuclides in ground-water samples from Eagle Valley

[Uranium (natural) and uranium extraction in pCi/L are calculated from the corresponding uranium values in µg/L by assuming that the activity ratio of U-234 to U-238 is 1. Abbreviations and symbols: µg/L, micrograms per liter; pCi/L, picocuries per liter; --, not determined; <, less than; Cs-137, cesium-137; Sr-90/Y-90, strontium-90/yttrium-90]

Site (fig. 3)	Date	Radon-222, total (pCi/L)	Radium-226, dissolved, radon method (pCi/L)	Radium-228, dissolved (pCi/L as Ra-228)	Uranium (natural), dissolved (µg/L as U)	Uranium (natural), dissolved (pCi/L)	Gross alpha, dissolved (µg/L as U, natural)	Gross alpha, dissolved (pCi/L)	Gross beta, dissolved (pCi/L as Cs-137)	Gross beta, dissolved (pCi/L as Sr-90/Y-90)
1	05-03-88	1,800	--	--	2.9	2.0	2.8	1.9	4.1	3.1
2	08-17-88	2,200	--	--	4.3	2.9	6.2	4.2	4.1	3.1
3	08-11-88	2,300	--	--	1.2	.8	1.8	1.2	2.2	1.8
4	08-15-88	2,300	--	--	2.8	1.9	4.3	2.9	4.5	3.6
5	05-24-88	1,100	--	--	3.2	2.2	2.7	1.8	3.3	2.5
6	08-11-88	930	--	--	5.9	4.0	6.6	4.5	3.7	3.1
7	08-19-88	690	--	--	2.8	1.9	4.5	3.0	3.4	2.6
8	08-16-88	830	--	--	.6	.4	1.4	1.0	1.7	1.3
9	05-24-88	1,200	--	--	2.7	1.8	2.7	1.8	2.7	2.1
	05-24-88	1,200	--	--	--	--	2.9	2.0	3.1	2.4
10	08-18-88	1,300	--	--	1.2	.8	3.1	2.1	4.5	3.6
11	02-28-89	1,400	--	--	--	--	--	--	--	--
	05-31-89	1,100	--	--	--	--	--	--	--	--
12	08-26-88	1,300	--	--	8.5	5.8	14	9.5	7.3	5.6
14	03-07-89	1,000	--	--	--	--	--	--	--	--
15	05-31-89	700	--	--	--	--	--	--	--	--
16	02-24-89	1,100	--	--	--	--	--	--	--	--
18	08-30-88	1,100	--	--	1.5	1.0	2.5	1.7	3.8	2.9
19	09-08-88	1,700	--	--	1.1	.8	1.1	.8	2.3	1.9
	09-08-88	3,600	--	--	1.6	1.1	3.5	2.4	4.6	3.6
20	03-10-89	1,500	--	--	--	--	--	--	--	--
24	02-28-89	1,800	--	--	--	--	--	--	--	--
25	02-27-89	6,800	--	--	--	--	--	--	--	--
	06-02-89	5,100	--	--	--	--	--	--	--	--
26	08-28-87	--	0.14	4.0	--	--	--	--	--	--
27	05-13-88	2,600	--	--	19	13	16	11	12	8.9
28	06-08-88	360	--	--	2.7	1.8	3.9	2.6	5.0	3.8
29	03-03-89	2,700	--	--	--	--	--	--	--	--
30	03-03-89	2,400	--	--	--	--	--	--	--	--
	03-03-89	2,700	--	--	--	--	--	--	--	--
31	03-06-89	2,600	--	--	--	--	--	--	--	--
32	02-24-89	2,400	--	--	--	--	--	--	--	--
33	03-08-89	1,500	--	--	--	--	--	--	--	--
34	02-27-89	11,000	--	--	--	--	--	--	--	--
37	05-31-89	5,100	--	--	--	--	--	--	--	--
38	01-12-89	3,200	--	--	--	--	--	--	--	--
39	08-25-88	--	--	--	30	20	36	24	20	16
	07-12-89	2,200	--	--	--	--	--	--	--	--
40	09-01-87	--	.21	--	--	--	--	--	--	--
41	08-26-87	--	.18	4.0	--	--	--	--	--	--

Table 16. Radionuclides in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Radon-222, total (pCi/L)	Radium-226, dissolved, radon method (pCi/L)	Radium-228, dissolved (pCi/L as Ra-228)	Uranium (natural), dissolved (µg/L as U)	Uranium (natural), dissolved (pCi/L)	Gross alpha, dissolved (µg/L as U, natural)	Gross alpha, dissolved (pCi/L)	Gross beta, dissolved (pCi/L as Cs-137)	Gross beta, dissolved (pCi/L as Sr-90/Y-90)
43	05-11-88	4,000	--	--	19	13	13	8.8	14	11
	08-27-87	--	0.21	--	--	--	--	--	--	--
45	05-11-88	4,900	--	--	13	8.8	12	8.1	11	8.1
46	03-10-89	4,100	--	--	--	--	--	--	--	--
	09-20-88	2,100	--	--	12	8.1	21	14	11	7.8
47	01-20-89	1,100	--	--	--	--	--	--	--	--
49	03-07-89	660	--	--	--	--	--	--	--	--
	06-02-89	590	--	--	--	--	--	--	--	--
50	08-24-88	630	--	--	.5	.34	1.1	.8	7.8	5.9
51	09-02-88	2,800	--	--	37	25	38	26	24	19
52	08-24-88	2,600	--	--	2.7	1.8	5.4	3.7	5.2	3.8
53	09-07-88	14,000	--	--	39	26	41	24	--	21
	09-07-88	14,000	--	--	--	--	44	25	--	21
	07-12-89	10,000	.20	<1.0	--	--	--	--	--	--
54	03-09-89	2,300	--	--	--	--	--	--	--	--
55	06-02-89	1,200	--	--	--	--	--	--	--	--
56	08-19-88	240	--	--	<.4	<.3	.6	.4	5.9	4.7
	08-30-88	1,900	--	--	56	38	52	35	42	28
57	08-09-89	--	.30	<1.0	--	--	--	--	--	--
	05-25-88	2,400	--	--	25	17	19	13	13	9.9
58	08-25-88	--	--	--	1.4	1.0	4.5	3.1	6.2	5.0
	07-12-89	5,700	.40	1.2	--	--	--	--	--	--
59	08-17-88	2,000	--	--	2.2	1.5	3.5	2.4	3.0	2.3
60	08-12-88	2,500	--	--	38	26	42	28	23	18
61	08-15-88	7,100	--	--	14	9.5	18	12	22	17

Table 17. Isotopes in ground-water samples from Eagle Valley

[Stable isotopes evaluated are carbon-13 relative to carbon-12 ($^{13}C/^{12}C$), deuterium (hydrogen-2) relative to hydrogen-1 ($D/^{1}H$), oxygen-18 relative to oxygen-16 ($^{18}O/^{16}O$), and sulfur-34 relative to sulfur-32 ($^{34}S/^{32}S$). Each ratio was determined for a water sample, then related mathematically to the comparable ratio for the following international reference standards: Peedee belemnite for carbon, Vienna Standard Mean Ocean Water for hydrogen and oxygen, and Canyon Diablo troilite for sulfur isotopes. Computed results are expressed as "delta carbon-13," "delta deuterium," "delta oxygen-18," and "delta sulfur-34"; units of measure are parts per thousand (abbreviated "permil"). A negative delta value indicates that the water sample is isotopically lighter than the standard (for example, the water sample has a smaller proportion of deuterium relative to hydrogen-1 than the standard). Abbreviations and symbols: pCi/L, picocuries per liter; PMC, percent modern carbon; --, not determined; <, less than]

Site (fig. 3)	Date	Delta deuterium (permil)	Delta oxygen-18 (permil)	Delta carbon-13 (permil)	Carbon-14 (PMC)	Tritium (pCi/L)	Delta sulfur-34 (permil)
1	05-03-88	-110	-14.2	--	--	<0.3	--
2	08-17-88	-111	-14.1	-12.0	95	<.3	4.8
3	08-11-88	-110	-14.8	--	--	16	--
4	08-15-88	-112	-14.3	--	--	.6	--
5	05-24-88	-110	-14.7	-14.9	90	1.2	5.0
6	08-11-88	-108	-14.5	--	--	<.3	--
7	08-19-88	-111	-14.9	-11.7	97	.4	12
8	08-16-88	-114	-14.5	-12.9	81	1.2	8.9
9	05-24-88	-107	-14.8	-14.8	81	.4	4.4
	05-24-88	-108	-14.6	--	81	<.3	--
10	08-18-88	-115	-14.8	-13.6	72	<.3	.9
11	02-28-89	-107	-13.6	--	--	--	--
	05-31-89	-109	-13.8	--	--	--	--
12	08-26-88	-111	-15.0	-15.5	84	<.3	--
13	01-19-88	-103	-12.9	--	--	--	--
	06-05-89	-108	-13.5	--	--	--	--
14	05-31-89	-114	-14.6	--	--	--	--
15	02-28-89	-110	-14.3	--	--	--	--
	06-01-89	-112	-14.4	--	--	--	--
16	08-30-88	-105	-13.6	--	--	35	--
17	01-18-89	-102	-14.0	--	--	--	--
	06-05-89	-109	-14.1	--	--	--	--
18	09-08-88	-112	-14.9	-16.1	52	<.3	8.6
19	09-08-88	-110	-15.0	--	--	6.4	--
20	03-10-89	-112	-14.7	--	--	--	--
	06-09-89	-111	-14.8	--	--	--	--
21	03-10-89	-106	-13.6	--	--	--	--
	06-09-89	-108	-13.7	--	--	--	--
22	03-11-89	-105	-13.7	--	--	--	--
	06-09-89	-103	-13.7	--	--	--	--
23	03-11-89	-105	-13.7	--	--	--	--
24	02-28-89	-105	-13.7	--	--	--	--
	06-01-89	-107	-13.9	--	--	--	--
25	02-27-89	-105	-13.5	--	--	--	--
	06-02-89	-108	-13.8	--	--	--	--
26	08-28-87	--	--	--	69	3.0	--
	05-13-88	-110	-15.2	--	--	--	--
27	06-08-88	-103	-13.2	-13.0	106	29	16
28	03-03-89	-110	-14.6	--	--	--	--
	06-07-89	-111	-14.8	--	--	--	--

Table 17. Isotopes in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Delta deuterium (permil)	Delta oxygen-18 (permil)	Delta carbon-13 (permil)	Carbon-14 (PMC)	Tritium (pCi/L)	Delta sulfur-34 (permil)
29	03-03-89	-108	-14.2	--	--	--	--
	06-07-89	-107	-14.4	--	--	--	--
30	03-03-89	-107	-14.4	--	--	--	--
	06-07-89	-111	-14.4	--	--	--	--
31	03-06-89	-111	-14.4	--	--	--	--
	06-07-89	-107	-14.2	--	--	--	--
32	02-24-89	-109	-14.9	--	--	--	--
33	03-08-89	-106	-13.9	--	--	--	--
	06-08-89	-106	-13.7	--	--	--	--
34	02-27-89	-109	-14.4	--	--	--	--
	06-08-89	-107	-14.2	--	--	--	--
35	09-03-87	-104	-14.2	--	--	57	--
36	09-02-87	-103	-13.7	--	--	<5.7	--
37	01-13-89	-108	-14.6	--	--	--	--
	05-31-89	-110	-14.2	--	--	--	--
38	01-12-89	-108	-14.1	--	--	--	--
	05-30-89	-111	-14.0	--	--	--	--
39	08-25-88	-112	-15.1	-15.3	60	<.3	--
40	09-01-87	-103	-14.6	--	--	49	--
41	08-26-87	--	--	-14.7	88	<1.0	--
	05-11-88	-109	-15.1	--	--	--	--
42	01-19-89	-110	-13.4	--	--	--	--
	06-05-89	-108	-14.2	--	--	--	--
43	08-27-87	--	--	--	--	62	--
	05-11-88	-105	-14.6	--	--	--	--
44	09-04-87	-104	-14.1	--	--	58	--
45	03-10-89	-112	-14.5	--	--	--	--
46	09-20-88	-117	-15.3	-13.8	39	1.1	5.7
47	06-06-89	-112	-13.9	--	--	--	--
48	01-20-89	-108	-13.7	--	--	--	--
	06-06-89	-108	-14.3	--	--	--	--
49	03-07-89	-110	-13.7	--	--	--	--
	06-02-89	-108	-13.6	--	--	--	--
50	08-24-88	-122	-16.0	-14.0	39	.4	18
51	09-02-88	-112	-14.9	-15.8	74	<.3	--
52	08-24-88	-115	-15.0	-12.7	58	1.1	14
53	09-07-88	-112	-15.2	--	--	3.7	--
54	03-09-89	-108	-13.9	--	--	--	--
	06-02-89	-111	-13.8	--	--	--	--
55	08-16-88	--	--	--	31	--	--
	08-19-88	-116	-15.1	-10.5	--	.7	6.3
56	08-30-88	-107	-13.7	-14.4	104	32	6.2
57	05-25-88	-109	-14.8	-14.9	69	<.3	6.1
58	08-25-88	-111	-14.3	-16.8	--	14	--
59	08-17-88	-113	-14.5	-14.2	79	4.2	5.4
60	08-12-88	-106	-13.9	--	--	13	--
61	08-15-88	-110	-13.1	--	--	8.7	--

Table 18. Carbamate insecticides in ground-water samples from Eagle Valley

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than; --, not determined]

Site (fig. 3)	Date	Methomyl, total, (µg/L)	Propham total, (µg/L)	Sevin, (µg/L)
11	05-31-89	<0.50	<0.50	<0.50
13	06-16-89	<.50	<.50	<.50
14	05-31-89	<.50	<.50	<.50
15	02-24-89	<.50	<.50	<.50
	08-22-89	<.50	<.50	<.50
16	08-30-88	<.50	<.50	<.50
17	01-18-89	<.50	<.50	<.50
20	03-10-89	<.50	<.50	<.50
21	03-10-89	<.50	<.50	<.50
22	03-11-89	<.50	<.50	<.50
23	03-11-89	<.50	<.50	<.50
24	06-01-89	<.50	<.50	<.50
25	02-27-89	--	--	<.50
	02-27-89	<.50	<.50	<.50
	02-27-89	<.50	<.50	<.50
28	03-03-89	<.50	<.50	<.50
	06-07-89	<.50	<.50	<.50
29	03-03-89	<.50	<.50	<.50
	06-07-89	<.50	<.50	<.50
30	03-03-89	<.50	<.50	<.50
31	06-07-89	<.50	<.50	<.50
	03-06-89	<.50	<.50	<.50
32	06-07-89	<.50	<.50	<.50
34	06-01-89	<.50	<.50	<.50
	06-08-89	<.50	<.50	<.50
37	01-13-89	<.50	<.50	<.50
38	03-09-89	<.50	<.50	<.50
42	01-19-89	<.50	<.50	<.50
45	03-10-89	<.50	<.50	<.50
47	01-20-89	<.50	<.50	<.50
49	06-06-89	<.50	<.50	<.50
54	03-07-89	<.50	<.50	<.50
	06-16-89	<.50	<.50	<.50

Table 19. Chlorophenoxy-acid herbicides in ground-water samples from Eagle Valley

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than; --, not determined]

Site (fig. 3)	Date	2,4-D, total (µg/L)	2,4,5-T total (µg/L)	SILVEX, total (µg/L)	2,4-DP total (µg/L)
11	05-31-89	<0.01	<0.01	<0.01	<0.01
13	06-16-89	<.01	<.01	<.01	<.01
14	05-31-89	<.01	<.01	<.01	<.01
15	02-24-89	<.01	<.01	<.01	<.01
16	08-30-88	<.01	<.01	<.01	<.01
17	05-10-89	<.01	<.01	<.01	<.01
20	01-18-89	<.01	<.01	<.01	<.01
21	03-10-89	<.01	<.01	<.01	<.01
22	03-10-89	<.01	<.01	<.01	<.01
	03-11-89	<.01	<.01	<.01	<.01
23	03-11-89	<.01	<.01	<.01	<.01
24	06-01-89	<.01	<.01	<.01	<.01
25	02-27-89	<.01	<.01	<.01	<.01
	02-27-89	<.01	<.01	<.01	<.01
	02-27-89	<.01	<.01	<.01	<.01
28	03-03-89	<.01	<.01	<.01	<.01
	06-07-89	<.01	<.01	<.01	<.01
29	03-03-89	<.01	<.01	<.01	<.01
	06-07-89	<.01	<.01	<.01	<.01
30	06-07-89	<.01	<.01	<.01	<.01
31	03-06-89	<.01	<.01	<.01	<.01
	06-07-89	<.01	<.01	<.01	<.01
32	06-01-89	<.01	<.01	<.01	<.01
34	06-08-89	<.01	<.01	<.01	<.01
37	01-13-89	<.01	<.01	<.01	<.01
38	03-09-89	<.01	<.01	<.01	<.01
42	01-19-89	<.01	<.01	<.01	<.01
45	03-10-89	<.01	<.01	<.01	<.01
47	01-20-89	<.01	<.01	<.01	<.01
	06-06-89	<.01	<.01	<.01	<.01
49	03-07-89	<.01	<.01	<.01	<.01
54	06-16-89	<.01	<.01	<.01	<.01

Table 20. Triazines and other nitrogen-containing pesticides in ground-water samples from Eagle Valley

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 3)	Date	Alachlor, total recoverable (µg/L)	Ametryne, total (µg/L)	Atrazine, total (µg/L)	Cyanazine, total (µg/L)	Metachlor, total (µg/L)	Prometone, total (µg/L)	Prometryne, total (µg/L)	Propazine, total (µg/L)	Simazine, total (µg/L)	Simetryne total (µg/L)	Trifluralin, total recoverable (µg/L)
11	05-31-89	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
13	06-16-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
14	05-31-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
15	02-24-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	08-22-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
16	08-30-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	05-10-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
17	01-18-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
20	03-10-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
21	03-10-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
22	03-11-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	.1	<.1	<.1
23	03-11-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
24	06-01-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
25	02-27-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	02-27-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
28	02-27-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	03-03-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
29	06-07-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	03-22-89	<.1	<.1	<.1	<.1	<.1	.1	<.1	<.1	<.1	<.1	<.1
	06-07-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
30	03-03-89	<.1	<.1	<.1	<.1	<.1	.3	<.1	<.1	<.1	<.1	<.1
	06-07-89	<.1	<.1	<.1	<.1	<.1	.1	<.1	<.1	<.1	<.1	<.1
31	03-06-89	<.1	<.1	<.1	<.1	<.1	.1	<.1	<.1	<.1	<.1	<.1
	06-07-89	<.1	<.1	<.1	<.1	<.1	.1	<.1	<.1	<.1	<.1	<.1
32	06-01-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
34	06-08-89	<.1	<.1	<.1	.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
37	01-13-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
38	03-09-89	<.1	<.1	<.1	<.1	<.1	3.8	<.1	<.1	<.1	<.1	<.1
42	01-19-89	<.1	<.1	<.1	<.1	<.1	.1	<.1	<.1	<.1	<.1	<.1
45	03-10-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
47	01-20-89	<.1	<.1	<.1	<.1	<.1	.4	<.1	<.1	<.1	<.1	<.1
	06-06-89	<.1	<.1	<.1	<.1	<.1	.3	<.1	<.1	<.1	<.1	<.1
49	03-07-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
54	06-16-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1

Table 21. Organochlorine and organophosphorus compounds in ground-water samples from Eagle Valley

[Abbreviations and symbols: µg/L, micrograms per liter; --, not determined; <, less than]

Site (fig. 3)	Date	Aldrin total (µg/L)	Chlordane, total (µg/L)	Diazinon total (µg/L)	DDD, total (µg/L)	DDE, total (µg/L)	DDT, total (µg/L)	Dieldrin, total (µg/L)	Endosulfan, total (µg/L)	Endrin total (µg/L)	Ethion total (µg/L)	Heptachlor, total (µg/L)	Heptachlor epoxide, total (µg/L)
11	05-31-89	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
13	06-16-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
14	05-31-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
15	02-24-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
17	01-18-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
20	03-10-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
21	03-10-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
22	03-11-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
23	03-11-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
24	06-01-89	<.01	--	<.01	<.01	<.01	--	--	--	--	<.01	<.01	--
25	02-27-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
	02-27-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
	02-27-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
28	03-03-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
	06-07-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
29	03-03-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
	06-07-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
30	03-03-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
	06-07-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
31	03-06-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
32	06-07-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
34	06-01-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
37	06-08-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
38	01-13-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
	03-09-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
42	01-19-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
45	03-10-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
47	01-20-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
	06-06-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
49	03-07-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
54	06-16-89	<.01	<.1	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

Table 21. Organochlorine and organophosphorus compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Lindane, total (µg/L)	Malathion, total (µg/L)	Methoxychlor, total (µg/L)	Methyl parathion, total (µg/L)	Methyl trithion, total (µg/L)	Mirex, total (µg/L)	Parathion, total (µg/L)	PCB, total (µg/L)	PCB dissolved (µg/L)	PCN dissolved (µg/L)	Toxaphene, total (µg/L)	Trithion, total (µg/L)
11	05-31-89	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	--	--	<1.0	<0.01
13	06-16-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
14	05-31-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
15	02-24-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
17	01-18-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
20	03-10-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
21	03-10-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
22	03-11-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
23	03-11-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
24	06-01-89	--	<.01	--	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
25	02-27-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
	02-27-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	--	<.01
	02-27-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
28	03-03-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
	06-07-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
29	03-03-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
	06-07-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
30	03-03-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
	06-07-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
31	03-06-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
32	06-07-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
34	06-01-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
37	06-08-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
38	01-13-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
	03-09-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
42	01-19-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
45	03-10-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
47	01-20-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
	06-06-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
49	03-07-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01
54	06-16-89	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.1	--	--	<1.0	<.01

Table 22. Volatile organic compounds in ground-water samples from Eagle Valley

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than; --, not determined]

Site (fig. 3)	Date	Methyl-chloride, total (µg/L)	Methyl-ene chloride, total (µg/L)	Chloroform, total (µg/L)	Carbon tetrachloride, total (µg/L)	Methyl bromide, total (µg/L)	Dibromomethane, whole-water (µg/L)	Bromoform, total (µg/L)	Dichlorobromomethane, total (µg/L)	Chlorodibromomethane, total (µg/L)
1	05-03-88	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2	08-17-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
3	08-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
4	08-15-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
5	05-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
6	08-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
7	08-19-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
8	08-16-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
9	05-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	05-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
10	08-18-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
11	02-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	05-31-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
12	08-26-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
13	01-18-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-05-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
14	03-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	05-31-89	<.2	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
15	02-24-89	--	--	--	--	--	--	--	--	--
	03-08-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-22-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
16	08-30-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
17	01-18-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-05-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
18	09-08-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
19	09-08-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
20	03-10-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
21	03-10-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
22	03-11-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
23	03-11-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
24	02-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
25	02-27-89	<.2	<.2	1.7	<.2	<.2	<.2	<.2	<.2	<.2
	02-27-89	--	--	--	--	--	--	--	--	--
	06-02-89	<.2	<.2	1.5	<.2	<.2	<.2	<.2	<.2	<.2

Table 22. Volatile organic compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Methyl-chio-ride, total (µg/L)	Methyi-ene chio-ride, total (µg/L)	Chioro-form, total (µg/L)	Carbon tetra-chio-ride, total (µg/L)	Methyi bromide, total (µg/L)	Di-bromo-methane, whoie-water (µg/L)	Bromo-form, total (µg/L)	Di-chioro-bromo-methane, total (µg/L)	Chioro-di-bromo-methane, total (µg/L)
26	05-13-88	<0.2	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
27	06-08-88	<.2	<0.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
28	03-03-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	03-03-89	--	--	--	--	--	--	--	--	--
	06-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-23-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
29	03-03-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-23-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
30	03-03-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-23-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
31	03-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
32	03-10-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-01-89	<.2	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
33	03-08-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-08-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
34	02-27-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-08-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
37	01-13-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	05-31-89	<.2	<.2	.7	<.2	<.2	<.2	<.2	<.2	<.2
38	01-12-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	03-09-89	--	--	--	--	--	--	--	--	--
	05-30-89	<.2	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-21-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
39	08-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
41	05-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
42	01-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-05-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-21-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
43	05-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
45	03-10-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
46	09-20-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
47	01-20-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
48	01-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
49	03-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 22. Volatile organic compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Methyl-chloride, total (µg/L)	Methylene chloride, total (µg/L)	Chloroform, total (µg/L)	Carbon tetrachloride, total (µg/L)	Methyl bromide, total (µg/L)	Dibromomethane, whole-water (µg/L)	Bromoform, total (µg/L)	Dichlorobromomethane, total (µg/L)	Chlorodibromomethane, total (µg/L)
	06-02-89	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	08-24-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
50	08-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
51	09-02-88	<.2	<.3	<.2	<.2	<.2	--	<.2	<.2	<.2
52	08-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
53	09-07-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
54	03-09-89	<.2	<.2	.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-02-89	<.2	<.2	.2	<.2	<.2	<.2	<.2	<.2	<.2
55	08-19-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
56	08-30-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
57	05-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
58	08-25-88	<.2	<.7	<.2	<.2	<.2	<.2	<.2	<.2	<.2
59	08-17-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
60	08-12-88	<.2	<2.3	<.2	<.2	<.2	<.2	<.2	<.2	<.2
61	08-15-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 22. Volatile organic compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Trichlorofluoromethane, total (µg/L)	Dichlorodifluoromethane, total (µg/L)	Chloroethane, total (µg/L)	1,1-Dichloroethane, total (µg/L)	1,2-Dichloroethane, total (µg/L)	1,1,1-Trichloroethane, total (µg/L)	1,1,2-Trichloroethane, total (µg/L)	1,1,2,2-Tetrachloroethane, total (µg/L)	1,2-Dibromoethane, whole-water, total (µg/L)	Vinyl chloride, total (µg/L)
1	05-03-88	<0.2	<0.2	<0.2	<0.2	--	<0.2	<0.2	<0.2	--	<0.2
2	08-17-88	<.2	<.2	<.2	<.2	<0.2	<.2	<.2	<.2	<0.2	<.2
3	08-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
4	08-15-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
5	05-24-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
6	08-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
7	08-19-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
8	08-16-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
9	05-24-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
	05-24-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
10	08-18-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
11	02-28-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
12	05-31-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
13	08-26-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
	01-18-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-05-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
14	03-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	05-31-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
15	02-24-89	--	--	--	--	--	--	--	--	--	--
	03-08-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-22-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
16	08-30-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
17	01-18-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-05-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
18	09-08-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
19	09-08-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
20	03-10-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
21	03-10-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
22	03-11-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
23	03-11-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
24	02-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
25	02-27-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	02-27-89	--	--	--	--	--	--	--	--	--	--
	06-02-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 22. Volatile organic compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Tri-chloro-fluoro-methane, total (µg/L)	Di-chloro-difluoro-methane, total (µg/L)	Chloro-ethane, total (µg/L)	1,1-Di-chloro-ethane, total (µg/L)	1,2-Di-chloro-ethane, total (µg/L)	1,1,1-Tri-chloro-ethane, total (µg/L)	1,1,2-Tri-chloro-ethane, total (µg/L)	1,1,2,2-Tetra-chloro-ethane, total (µg/L)	1,2-Dibromo-ethane, whole-water, total (µg/L)	Vinyl chloride, total (µg/L)
26	05-13-88	<0.2	<0.2	<0.2	<0.2	--	<0.2	<0.2	<0.2	--	<0.2
27	06-08-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<0.2	<.2
28	03-03-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	03-03-89	--	--	--	--	--	--	--	--	--	--
	06-07-89	<.2	<.2	<.2	<.2	<0.2	<.2	<.2	<.2	<.2	<.2
	08-23-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
29	03-03-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-23-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
30	03-03-89	<.2	<.2	<.2	--	--	<.2	<.2	<.2	<.2	<.2
	06-07-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2	<.2
	08-23-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
31	03-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
32	03-10-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
33	03-08-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-08-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
34	02-27-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-08-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
37	01-13-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	05-31-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
38	01-12-89	<.2	<.2	<.2	--	--	.4	<.2	<.2	<.2	<.2
	03-09-89	--	--	--	--	--	--	--	--	--	--
	05-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-21-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
39	08-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
41	05-11-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
42	01-19-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-05-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-21-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
43	05-11-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
45	03-10-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
46	09-20-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
47	01-20-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
48	01-19-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
49	03-07-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2

Table 22. Volatile organic compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Trichlorofluoromethane, total (µg/L)	Dichlorodifluoromethane, total (µg/L)	Chloroethane, total (µg/L)	1,1-Dichloroethane, total (µg/L)	1,2-Dichloroethane, total (µg/L)	1,1,1-Trichloroethane, total (µg/L)	1,1,2-Trichloroethane, total (µg/L)	1,1,2,2-Tetrachloroethane, total (µg/L)	1,2-Dibromoethane, whole-water, total (µg/L)	Vinyl chloride, total (µg/L)
	06-02-89	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	08-24-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
50	08-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
51	09-02-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
52	08-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
53	09-07-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
54	03-09-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-02-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
55	08-19-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
56	08-30-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
57	05-25-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
58	08-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
59	08-17-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
60	08-12-88	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2
61	08-15-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	--	<.2

Table 22. Volatile organic compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	1,1-Di-chloro-ethylene, total (µg/L)	Tri-chloro-ethylene, total (µg/L)	Tetra-chloro-ethylene, total (µg/L)	1,2-Di-bromo-ethylene, total (µg/L)	1,2-Di-chloro-propane, total (µg/L)	1,2,3-Tri-chloro-propane, whole-water, total (µg/L)	Trans-1,3-Di-chloro-propene, total (µg/L)	Cis-1,3-Di-chloro-propene, total (µg/L)	Benzene, total (µg/L)
1	05-03-88	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2	08-17-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
3	08-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
4	08-15-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
5	05-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
6	08-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
7	08-19-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
8	08-16-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
9	05-24-88	<.2	<.2	1.4	<.2	<.2	<.2	<.2	<.2	<.2
	05-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
10	08-18-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
11	02-28-89	<.2	<.2	--	--	<.2	<.2	<.2	<.2	<.2
	05-31-89	<.2	<.2	.2	--	<.2	<.2	<.2	<.2	<.2
12	08-26-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
13	01-18-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-05-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
14	03-07-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	05-31-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
15	02-24-89	<.2	--	--	--	--	--	--	--	--
	03-08-89	<.2	.5	<.2	--	<.2	<.2	<.2	<.2	--
	06-01-89	<.2	.7	--	--	<.2	<.2	<.2	<.2	<.2
	08-22-89	<.2	.8	<.2	--	<.2	<.2	<.2	<.2	<.2
16	08-30-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
17	01-18-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-05-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
18	09-08-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
19	09-08-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
20	03-10-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-09-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
21	03-10-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-09-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
22	03-11-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-09-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
23	03-11-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-09-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
24	02-28-89	<.2	20	23	--	<.2	<.2	<.2	<.2	<.2
	06-01-89	<.2	18	44	--	<.2	<.2	<.2	<.2	<.2
25	02-27-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	02-27-89	<.2	--	--	--	--	--	--	--	--
	06-02-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2

Table 22. Volatile organic compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	1,1-Dichloroethylene, total (µg/L)	Trichloroethylene, total (µg/L)	Tetrachloroethylene, total (µg/L)	1,2-Dibromoethylene, total (µg/L)	1,2-Dichloropropane, total (µg/L)	1,2,3-Trichloropropane, whole-water, total (µg/L)	Trans-1,3-Dichloropropene, total (µg/L)	Cis-1,3-Dichloropropene, total (µg/L)	Benzene, total (µg/L)
26	05-13-88	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
27	06-08-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
28	03-03-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	03-03-89	<.2	--	--	--	--	--	--	--	--
	06-07-89	<.2	0.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	08-23-89	<.2	0.2	<.2	--	<.2	<.2	<.2	<.2	<.2
29	03-03-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-07-89	<.2	0.5	<.2	--	<.2	<.2	<.2	<.2	<.2
	08-23-89	<.2	0.6	<.2	--	<.2	<.2	<.2	<.2	<.2
30	03-03-89	<.2	0.7	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-07-89	<.2	0.3	<.2	--	<.2	<.2	<.2	<.2	<.2
	08-23-89	<.2	0.2	<.2	--	<.2	<.2	<.2	<.2	<.2
31	03-06-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-07-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
32	03-10-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-01-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
33	03-08-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-08-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
34	02-27-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-08-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
37	01-13-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	05-31-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
38	01-12-89	<.2	<.2	.3	--	<.2	<.2	<.2	<.2	<.2
	03-09-89	<.2	--	--	--	--	--	--	--	--
	05-30-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	08-21-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
39	08-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
41	05-11-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
42	01-19-89	<.2	0.3	.2	--	<.2	<.2	<.2	<.2	<.2
	06-05-89	<.2	0.3	<.2	--	<.2	<.2	<.2	<.2	<.2
	08-21-89	<.2	0.4	<.2	--	<.2	<.2	<.2	<.2	<.2
43	05-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
45	03-10-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-06-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
46	09-20-88	<.2	-<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
47	01-20-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-06-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
48	01-19-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-06-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
49	03-07-89	<.2	<.2	.2	--	<.2	<.2	<.2	<.2	--

Table 22. Volatile organic compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	1,1-Dichloroethylene, total (µg/L)	Trichloroethylene, total (µg/L)	Tetrachloroethylene, total (µg/L)	1,2-Dibromoethylene, total (µg/L)	1,2-Dichloropropane, total (µg/L)	1,2,3-Trichloropropane, whole-water, total (µg/L)	Trans-1,3-Dichloropropene, total (µg/L)	Cis-1,3-Dichloropropene, total (µg/L)	Benzene, total (µg/L)
	06-02-89	<0.2	<0.2	0.2	--	<0.2	<0.2	<0.2	<0.2	<0.2
	08-24-89	<.2	<.2	.2	--	<.2	<.2	<.2	<.2	<.2
50	08-24-88	<.2	<.2	<.2	<0.2	<.2	<.2	<.2	<.2	<.2
51	09-02-88	<.2	<.2	<.2	--	<.2	--	<.2	<.2	<.2
52	08-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
53	09-07-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
54	03-09-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-02-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
55	08-19-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
56	08-30-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
57	05-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
58	08-25-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
59	08-17-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
60	08-12-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
61	08-15-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 22. Volatile organic compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Xylene, whole-water, total (µg/L)	Ethyl benzene, total (µg/L)	Toluene, total (µg/L)	Styrene, total (µg/L)	Chloro-benzene, total (µg/L)	1,2-Di-chloro-benzene, total (µg/L)	1,3-Di-chloro-benzene, total (µg/L)	1,4-Di-chloro-benzene, total (µg/L)
1	05-03-88	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2	08-17-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
3	08-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
4	08-15-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
5	05-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
6	08-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
7	08-19-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
8	08-16-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
9	05-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	05-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
10	08-18-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
11	02-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	05-31-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
12	08-26-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
13	01-18-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-05-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
14	03-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	05-31-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
15	02-24-89	--	--	--	--	--	<5	<5	<5
	03-08-89	--	--	--	<.2	<.2	<.2	<.2	<.2
	06-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-22-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
16	08-30-88	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
17	01-18-89	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
	06-05-89	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
18	09-08-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
19	09-08-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
20	03-10-89	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
	06-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
21	03-10-89	<.2	<.2	--	<.2	<.2	<5	<5	<5
	06-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
22	03-11-89	<.2	<.2	--	<.2	<.2	<5	<5	<5
	06-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
23	03-11-89	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
	06-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
24	02-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
25	02-27-89	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
	02-27-89	--	--	--	--	--	<5	<5	<5
	06-02-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 22. Volatile organic compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Xylene, whole-water, total (µg/L)	Ethyl benzene, total (µg/L)	Toluene, total (µg/L)	Styrene, total (µg/L)	Chloro-benzene, total (µg/L)	1,2-Di-chloro-benzene, total (µg/L)	1,3-Di-chloro-benzene, total (µg/L)	1,4-Di-chloro-benzene, total (µg/L)
26	05-13-88	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
27	06-08-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
28	03-03-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	03-03-89	--	--	--	--	--	<5	<5	<5
	06-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-23-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
29	03-03-89	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
	06-07-89	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
30	08-23-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	03-03-89	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
	06-07-89	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-23-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
31	03-06-89	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
	06-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
32	03-10-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
33	03-08-89	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	06-08-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
34	02-27-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-08-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
37	01-13-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	05-31-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
38	01-12-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	03-09-89	--	--	--	--	--	<5	<5	<5
	05-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-21-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
39	08-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
41	05-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
42	01-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-05-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-21-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
43	05-11-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
45	03-10-89	<.2	<.2	--	<.2	<.2	<5	<5	<5
	06-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
46	09-20-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
47	01-20-89	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
	06-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
48	01-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
49	03-07-89	--	<.2	--	<.2	<.2	<5	<5	<5

Table 22. Volatile organic compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Xylene, whole-water, total (µg/L)	Ethyl benzene, total (µg/L)	Toluene, total (µg/L)	Styrene, total (µg/L)	Chloro-benzene, total (µg/L)	1,2-Di-chloro-benzene, total (µg/L)	1,3-Di-chloro-benzene, total (µg/L)	1,4-Di-chloro-benzene, total (µg/L)
	06-02-89	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	08-24-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
50	08-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
51	09-02-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
52	08-24-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
53	09-07-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
54	03-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	06-02-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
55	08-19-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
56	08-30-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
57	05-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
58	08-25-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
59	08-17-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
60	08-12-88	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
61	08-15-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 23. Phenolic compounds in ground-water samples from Eagle Valley

[Abbreviations and symbols: mg/L, micrograms per liter; <, less than]

Site (fig. 3)	Date	4-6 Dinitro-ortho-cresol, total (µg/L)	Para-chloro-meta-cresol, total (µg/L)	2-Chloro-phenol total (µg/L)	Di-chloro-phenol total (µg/L)	2,4-2,4, Di-methyl-phenol, total (µg/L)	2,4-Dinitro-phenol, total (µg/L)	2-Nitro-phenol, total (µg/L)	4-Nitro-phenol, total (µg/L)	Penta-chloro-phenol, total (µg/L)	Phenol, total (µg/L)	2,4,6-Tri-chloro-phenol, total (µg/L)
15	02-24-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
16	08-30-88	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
17	01-18-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
20	03-10-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
21	03-10-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
22	03-11-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
23	03-11-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
25	02-27-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
	02-27-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
28	03-03-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
29	03-03-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
30	03-03-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
31	03-06-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
37	01-13-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
38	03-09-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
42	01-19-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
45	03-10-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
47	01-20-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20
49	03-07-89	<30	<30	<5	<5	<5	<20	<5	<30	<30	<5	<20

Table 24. Polynuclear aromatic compounds in ground-water samples from Eagle Valley

[Abbreviations and symbols: mg/L, micrograms per liter; <, less than; --, not determined]

Site (fig. 3)	Date	Acenaphthylene, total (µg/L)	Acenaphthene, total (µg/L)	Anthracene, total (µg/L)	Benzo(a)anthracene, total (µg/L)	Benzo(a)pyrene, total (µg/L)	Benzo(b)fluoranthene, total (µg/L)	Benzo(g,h,i)perylene, total (µg/L)	Benzo(k)fluoranthene, total (µg/L)
15	02-24-89	<5	<5	<5	<5	<10	<10	<10	<10
16	08-30-88	<5	<5	<5	<5	<10	<10	<10	<10
17	01-18-89	<5	<5	<5	<5	<10	<10	<10	<10
20	03-10-89	<5	<5	<5	<5	<10	<10	<10	<10
21	03-10-89	<5	<5	<5	<5	<10	<10	<10	<10
22	03-11-89	<5	<5	<5	<5	<10	<10	<10	<10
23	03-11-89	<5	<5	<5	<5	<10	<10	<10	<10
25	02-27-89	<5	<5	<5	<5	<10	<10	<10	<10
	02-27-89	<5	<5	<5	<5	<10	<10	<10	<10
28	03-03-89	<5	<5	<5	<5	<10	<10	<10	<10
29	03-03-89	<5	<5	<5	<5	<10	<10	<10	<10
30	03-03-89	<5	<5	<5	<5	<10	<10	<10	<10
31	03-06-89	<5	<5	<5	<5	<10	<10	<10	<10
37	01-13-89	<5	<5	<5	<5	<10	<10	<10	<10
38	03-09-89	<5	<5	<5	<5	<10	<10	<10	<10
42	01-19-89	<5	<5	<5	<5	<10	<10	<10	<10
45	03-10-89	<5	<5	<5	<5	<10	<10	<10	<10
47	01-20-89	<5	<5	<5	<5	<10	<10	<10	<10
49	03-07-89	<5	<5	<5	<5	<10	<10	<10	<10

Site (fig. 3)	Date	Bis 2-chloroisopropyl-ether, total (µg/L)	Bis 2-chloroethoxymethane, total (µg/L)	Bis 2-chloroethyl-ether, total (µg/L)	4-Bromophenyl ether, total (µg/L)	2-Chloronaphthalene, total (µg/L)	4-Chlorophenyl ether, total (µg/L)	Chrysene, total (µg/L)	1,2,5,6-Dibenzanthracene, total (µg/L)
15	02-24-89	<5	<5	<5	<5	<5	<5	<10	<10
16	08-30-88	<5	<5	<5	<5	<5	<5	<10	<10
17	01-18-89	<5	<5	<5	<5	<5	<5	<10	<10
20	03-10-89	<5	<5	<5	<5	<5	<5	<10	<10
21	03-10-89	<5	<5	<5	<5	<5	<5	<10	<10
22	03-11-89	<5	<5	<5	<5	<5	<5	<10	<10
23	03-11-89	<5	<5	<5	<5	<5	<5	<10	<10
25	02-27-89	<5	<5	<5	<5	<5	<5	<10	<10
	02-27-89	<5	<5	<5	<5	<5	<5	<10	<10
28	03-03-89	<5	<5	<5	<5	<5	<5	<10	<10
29	03-03-89	<5	<5	<5	<5	<5	<5	<10	<10
30	03-03-89	<5	<5	<5	<5	<5	<5	<10	<10
31	03-06-89	<5	<5	<5	<5	<5	<5	<10	<10
37	01-13-89	<5	<5	<5	<5	<5	<5	<10	<10
38	03-09-89	<5	<5	<5	<5	<5	<5	<10	<10
42	01-19-89	<5	<5	<5	<5	<5	<5	<10	<10
45	03-10-89	<5	<5	<5	<5	<5	<5	<10	<10
47	01-20-89	<5	<5	<5	<5	<5	<5	<10	<10
49	03-07-89	<5	<5	<5	<5	<5	<5	<10	<10

Table 24. Polynuclear aromatic compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	2,4-Dinitrotoluene, total (µg/L)	2,6-Dinitrotoluene, total (µg/L)	Fluoranthene, total (µg/L)	Fluorene, total (µg/L)	Hexachlorocyclopentadiene, total (µg/L)	Hexachloroethane total (µg/L)	Indeno (1,2,3-cd) pyrene, total (µg/L)	Isophorone, total (µg/L)
15	02-24-89	<5	<5	<5	<5	<5	<5	<10	<5
16	08-30-88	<5	<5	<5	<5	<5	<5	<10	<5
17	01-18-89	<5	<5	<5	<5	<5	<5	<10	<5
20	03-10-89	<5	<5	<5	<5	<5	<5	<10	<5
21	03-10-89	<5	<5	<5	<5	<5	<5	<10	<5
22	03-11-89	<5	<5	<5	<5	<5	<5	<10	<5
23	03-11-89	<5	<5	<5	<5	<5	<5	<10	<5
25	02-27-89	<5	<5	<5	<5	<5	<5	<10	<5
	02-27-89	<5	<5	<5	<5	<5	<5	<10	<5
28	03-03-89	<5	<5	<5	<5	<5	<5	<10	<5
29	03-03-89	<5	<5	<5	<5	<5	<5	<10	<5
30	03-03-89	<5	<5	<5	<5	<5	<5	<10	<5
31	03-06-89	<5	<5	<5	<5	<5	<5	<10	<5
37	01-13-89	<5	<5	<5	<5	<5	<5	<10	<5
38	03-09-89	<5	<5	<5	<5	<5	<5	<10	<5
42	01-19-89	<5	<5	<5	<5	<5	<5	<10	<5
45	03-10-89	<5	<5	<5	<5	<5	<5	<10	<5
47	01-20-89	<5	<5	<5	<5	<5	<5	<10	<5
49	03-07-89	<5	<5	<5	<5	<5	<5	<10	<5

Site (fig. 3)	Date	N-nitrosodi-n-propylamine, total (µg/L)	N-nitrosodiphenylamine, total (µg/L)	N-nitrosodimethylamine (µg/L)	Naphthalene, total (µg/L)	Phenanthrene, total (µg/L)	Bis (2-ethylhexyl) phthalate, total (µg/L)	Diethylphthalate, total (µg/L)	Dimethylphthalate, total (µg/L)
15	02-24-89	<5	<5	<5	<5	<5	<5	<5	<5
16	08-30-88	<5	<5	<5	<5	<5	<5	<5	<5
17	01-18-89	<5	<5	<5	<5	<5	<5	<5	<5
20	03-10-89	<5	<5	<5	<5	<5	--	<5	<5
21	03-10-89	<5	<5	<5	<5	<5	<5	<5	<5
22	03-11-89	<5	<5	<5	<5	<5	<5	<5	<5
23	03-11-89	<5	<5	<5	<5	<5	<5	<5	<5
25	02-27-89	<5	<5	<5	<5	<5	<5	<5	<5
	02-27-89	<5	<5	<5	<5	<5	<5	<5	<5
28	03-03-89	<5	<5	<5	<5	<5	<5	<5	<5
29	03-03-89	<5	<5	<5	<5	<5	<5	<5	<5
30	03-03-89	<5	<5	<5	<5	<5	<5	<5	<5
31	03-06-89	<5	<5	<5	<5	<5	<5	<5	<5
37	01-13-89	<5	<5	<5	<5	<5	<5	<5	<5
38	03-09-89	<5	<5	<5	<5	<5	<5	<5	<5
42	01-19-89	<5	<5	<5	<5	<5	<5	<5	<5
45	03-10-89	<5	<5	<5	<5	<5	<5	<5	<5
47	01-20-89	<5	<5	<5	<5	<5	<5	<5	<5
49	03-07-89	<5	<5	<5	<5	<5	<5	<5	<5

Table 24. Polynuclear aromatic compounds in ground-water samples from Eagle Valley—Continued

Site (fig. 3)	Date	Di-n-butyl-phthalate total (µg/L)	Di-n-octyl-phthalate total (µg/L)	Benzyl butyl phthalate total (µg/L)	Pyrene, total (µg/L)	1,2,4-Trichlorobenzene, total (µg/L)
15	02-24-89	<5	<10	<5	<5	<5
16	08-30-88	<5	<10	<5	<5	<5
17	01-18-89	<5	<10	<5	<5	<5
20	03-10-89	<5	<10	<5	<5	<5
21	03-10-89	<5	<10	<5	<5	<5
22	03-11-89	<5	<10	<5	<5	<5
23	03-11-89	<5	<10	<5	<5	<5
25	02-27-89	<5	<10	<5	<5	<5
	02-27-89	<5	<10	<5	<5	<5
28	03-03-89	<5	<10	<5	<5	<5
29	03-03-89	<5	<10	<5	<5	<5
30	03-03-89	<5	<10	<5	<5	<5
31	03-06-89	<5	<10	<5	<5	<5
37	01-13-89	<5	<10	<5	<5	<5
38	03-09-89	<5	<10	<5	<5	<5
42	01-19-89	<5	<10	<5	<5	<5
45	03-10-89	<5	<10	<5	<5	<5
47	01-20-89	<5	<10	<5	<5	<5
49	03-07-89	<5	<10	<5	<5	<5

Table 25. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Dayton and Churchill Valleys

[**Local site identification:** Indicates township, range, section number, location within the section, and sequence number (see text for complete description of local site-identification system). **Total depth of well:** Sources of information on well depth are drillers' logs (on file at Nevada Division of Water Resources, or U.S. Geological Survey, Carson City, Nevada). Specific conductance, pH, water temperature, Eh, dissolved oxygen, hydrogen sulfide, bicarbonate, and carbonate were measured in field, except those marked 'L' were measured in laboratory. **Field measurements and sampling:** Duplicate samples for a site are indicated by a time difference of one minute. **Abbreviations and symbols:** mg/L, milligrams per liter; mV, millivolts; µS/cm, microsiemens per centimeter at 25 degrees Celsius; °C, degrees Celsius; --, not determined; <, less than; U, upland aquifers; S, shallow aquifers; P, principal aquifers; T, thermal aquifers]

Site (fig. 4)	Symbol	Latitude	Longitude	Local site identification	Altitude of land surface (feet)	Total depth of well (feet)	Date sampled	Time	Field measurements					
									Specific conductance (µS/cm)	pH (standard units)	Eh (mV)	Water temperature (°C)	Oxygen, dissolved (mg/L)	Hydrogen sulfide, dissolved (mg/L)
1	P	39°08′40″	119°42′10″	N15 E20 23CDAC1	4,640	140	10-19-89	1200	456	7.6	450	16.5	<1.0	--
2	T	39°09′14″	119°42′00″	N15 E20 23ABDD2	4,680	120	10-19-89	0930	1,730	8.3	260	41.0	<1.0	--
3	P	39°12′59″	119°38′42″	N16 E21 29DCDD1	4,760	82	09-19-89	1300	1,970	7.5	250	15.0	6.4	--
4	P	39°13′30″	119°35′52″	N16 E21 26BCB 1	4,370	108	05-02-89	0930	1,500	7.4	--	15.0	4.6	--
5	P	39°14′17″	119°35′18″	N16 E21 23ACDD1	4,360	180	12-01-88	1100	921	7.1	450	14.0	1.6	--
6	P	39°14′41″	119°37′01″	N16 E21 15CCDC1	4,680	128	02-24-89	1045	1,010	7.2	200	15.0	<1.0	--
7	P	39°15′19″	119°35′17″	N16 E21 14ADBA1	4,340	126	12-01-88	1300	686	7.6	430	18.0	4.4	--
8	P	39°15′38″	119°31′13″	N16 E22 09CACA1	4,360	133	11-29-88	1130	1,190	7.0	420	15.0	2.7	--
9	U	39°15′38″	119°38′35″	N16 E21 08DDCB1	5,040	--	10-20-89	1130	604	7.3	--	14.5	--	--
10	P	39°16′05″	119°31′34″	N16 E22 09BCBC1	4,340	67	06-23-88	1100	1,420	7.0	140	19.0	1.5	--
							06-23-88	1101	1,420	7.0	140	19.0	1.5	--
11	S	39°16′10″	119°33′59″	N16 E21 12ADAB1	4,320	17	06-23-88	1400	465	6.8	--	13.5	--	--
							06-23-88	1401	465	6.8	--	13.5	--	--
12	P	39°16′27″	119°33′21″	N16 E22 06CDDD1	4,340	120	12-08-88	1100	973	8.3	490	24.0	<1.0	--
13	P	39°17′23″	119°31′50″	N17 E22 32DDBC1	4,280	96	01-31-89	1000	1,450	7.7	170	16.0	1.5	--
14	P	39°17′28″	119°16′06″	N17 E24 34DDAC1	4,220	110	01-24-89	1130	469	7.4	200	11.5	<1.0	<0.05
15	P	39°17′58″	119°21′10″	N17 E23 36BADC1	4,238	389	10-02-89	1400	397	7.3	--	13.5	--	--
16	S	39°18′08	119°12′07″	N17 E25 32BAAA1	4,180	17	07-26-88	1100	1,060	6.8	260	16.0	<1.0	<.05
							07-26-88	1101	1,060	6.8	260	16.0	<1.0	--
17	P	39°18′23″	119°29′34″	N17 E22 27DACC1	4,340	132	09-20-89	1200	514	7.4	260	18.0	6.5	--
18	P	39°18′37″	119°33′05″	N17 E22 30DABC1	4,420	200	09-27-89	1300	779	7.6	250	16.5	7.0	--
19	S	39°18′47″	119°11′38″	N17 E25 29ADAB1	4,220	12	07-26-88	1400	434	7.0	250	16.5	<1.0	<.05
							07-26-88	1401	434	7.0	250	16.5	<1.0	--
20	P	39°19′36″	119°31′51″	N17 E22 20DABB1	4,520	280	09-27-89	1000	513	7.4	250	18.0	7.3	--
21	P	39°19′52″	119°12′40″	N17 E25 18DDD 1	4,200	150	09-25-89	1030	269	7.7	350	16.5	<1.0	--

Table 25. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Dayton and Churchill Valleys—Continued

Site (fig. 4)	Symbol	Latitude	Longitude	Local site identification	Altitude of land surface (feet)	Total depth of well (feet)	Date sampled	Time	Field measurements					
									Specific conductance (µS/cm)	pH (standard units)	Eh (mV)	Water temperature (°C)	Oxygen, dissolved (mg/L)	Hydrogen sulfide, dissolved (mg/L)
22	P	39°20′07″	119°25′35″	N17 E23 17DCBC1	4,320	150	01-10-89	1130	1,040	7.8	460	13.0	5.4	--
23	P	39°21′18″	119°23′49″	N17 E23 10BCCA1	4,280	200	02-01-89	0945	586	7.4	260	16.0	4.0	--
24	P	39°21′44″	119°22′34″	N17 E23 02BC 1	4,312	305	12-05-88	1145	398	7.8	430	17.0	4.9	--
25	P	39°22′01″	119°24′50″	N17 E23 04CBBB2	4,400	200	09-28-89	1130	563	7.7	310	21.5	6.5	--
26	P	39°22′26″	119°16′21″	N17 E24 03ABAD1	4,490	360	09-21-89	1245	585	7.7	250	21.0	3.3	--
27	P	39°22′35″	119°21′56″	N18 E23 35DCDC1	4,385	268	01-11-89	1300	350	7.8	430	17.0	6.1	--
28	P	39°23′11″	119°17′45″	N18 E24 33BDAA1	4,360	230	09-26-89	1300	373	7.8	240	18.5	6.3	--
29	P	39°23′20″	119°15′09″	N18 E24 35ABAD1	4,240	196	09-26-89	0930	697	7.7	260	17.0	6.3	--
30	P	39°23′30″	119°17′54″	N18 E24 28CDBD1	4,390	282	09-21-89	1000	513	7.6	250	18.0	5.8	--
31	P	39°23′49″	119°11′43″	N18 E25 29ADCD1	4,160	185	10-11-89	1100	276	7.9	400	20.0	<1.0	--
32	P	39°24′03″	119°13′51″	N18 E24 25AADC1	4,280	400	01-13-89	1130	645	7.6	410	17.0	5.2	--
33	P	39°25′15″	119°12′37″	N18 E25 17CCBC1	4,180	145	02-01-89	1230	2,370	8.0	180	15.5	5.0	--
34	P	39°25′18″	119°17′04″	N18 E24 15CCBA1	4,560	400	09-30-89	1030	708	7.6	470	20.5	<1.0	--

Table 25. Physical properties, major constituents, nutrients, and carbon compounds in ground-water samples from Dayton and Churchill Valleys—Continued

Site (fig. 4)	Date	Major Constituents														
		Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity (mg/L as $CaCO_3$)	Bicarbonate, (mg/L as HCO_3)	Carbonate, (mg/L as CO_3)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Bromide, (mg/L as Br)	Silica, dissolved (mg/L as SiO_2)	Solids, dissolved, sum of constituents (mg/L)
1	10-19-89	190	64	6.3	23	2.5	161	196	--	59	9.6	0.2	0.03	24	285
2	10-19-89	630	250	.10	160	4.1	10	12	--	480	16	2.0	.90	38	956
3	09-19-89	1,100	400	32	30	8.4	101	123	--	1,100	24	.2	.22	31	1,690
4	05-02-89	660	200	38	99	2.9	234	285	--	590	36	.3	.19	41	1,150
5	12-01-88	370	110	24	68	4.9	199	243	--	280	26	.3	--	33	666
6	02-24-89	530	130	50	46	8.6	289	352	--	330	19	.1	.08	48	805
7	12-01-88	310	88	22	28	6.1	170	207	--	140	24	.1	--	52	462
8	11-29-88	550	130	54	54	10	134	163	--	430	67	.2	--	65	890
9	10-20-89	280	80	20	22	3.5	161	196	--	160	7.4	.1	.07	20	409
10	06-23-88	610	140	63	86	11	222	271		570	39	.5	--	48	1,090
	06-23-88	--	--	--	--	--	210	256	--	--	--	--	--	--	--
11	06-23-88	160	55	6.2	34	2.7	120	146	--	81	12	1.1	--	38	302
	06-23-88	--	--	--	--	--	123	150	--	--	--	--	--	--	--
12	12-08-88	200	79	.16	140	3.3	75	91	--	400	21	2.9	--	52	743
13	01-31-89	410	130	20	180	6.4	58	71	--	710	24	1.3	.09	39	1,150
14	01-24-89	160	44	12	44	5.3	153	186	--	83	12	.2	.04	41	333
15	10-02-89	77	18	7.6	60	5.7	66	81	--	74	13	.4	.04	58	277
16	07-26-88	390	100	33	110	6.1	244	298	--	320	39	.3	--	30	785
	07-26-88	380	100	32	110	6.1	244	298	--	320	39	.3	--	30	784
17	09-20-89	120	33	10	73	2.3	210	256	--	63	8.9	1.2	.08	59	376
18	09-27-89	330	94	24	37	2.1	153	187	--	220	15	.2	.11	36	520
19	07-26-88	110	30	8.4	55	3.8	118	144	--	82	14	.5	--	30	295
	07-26-88	--	--	--	--	--	121	148	--	--	--	--	--	--	--
20	09-27-89	200	45	22	34	7.4	244	297	--	26	7.2	.3	.07	66	354
21	09-25-89	84	24	5.7	21	4.9	84	103	--	43	6.5	.3	.01	44	200

Table 25. Physical properties, major constituents, nutrients, and carbon compounds in ground-water samples from Dayton and Churchill Valleys—Continued

Site (fig. 4)	Date	Major Constituents—Continued													
		Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity (mg/L as $CaCO_3$)	Bicarbonate, (mg/L as HCO_3)	Carbonate, (mg/L as CO_3)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Bromide, (mg/L as Br)	Silica, dissolved (mg/L as SiO_2)	Solids, dissolved, sum of constituents (mg/L)
22	01-10-89	340	88	30	66	1.9	127	155	--	210	99	1.7	--	65	638
23	02-01-89	230	54	24	33	8.4	122	149	--	170	12	.2	0.11	63	438
24	12-05-88	140	40	10	30	4.8	129	157	--	42	13	.2	--	67	284
25	09-28-89	170	37	18	51	5.3	182	222	--	78	16	.3	.15	59	374
26	09-21-89	230	66	16	34	4.5	140	171	--	110	32	.4	.25	54	401
27	01-11-89	140	38	12	23	3.7	116	142	--	25	13	<.1	--	73	258
28	09-26-89	150	44	9.4	14	4.3	92	112	--	40	29	.2	.22	61	257
29	09-26-89	200	55	16	59	8.7	104	127	--	180	45	.2	.28	59	485
30	09-21-89	210	63	13	21	5.5	90	110	--	140	11	.2	.09	69	377
31	10-11-89	75	21	5.3	23	4.7	87	106	--	36	6.9	.2	.01	49	198
32	01-13-89	220	59	17	53	7.9	107	130	--	150	44	.1	.32	62	457
33	02-01-89	210	53	18	440	17	136	166	--	810	170	.9	.32	56	1,650
34	09-30-89	210	47	23	65	8.3	225	274	--	150	12	.4	.09	73	513

Table 25. Physical properties, major constituents, nutrients, and carbon compounds in ground-water samples from Dayton and Churchill Valleys—Continued

Site (fig.4)	Date	Nutrients and carbon compounds							
		Nitrogen, nitrate, dissolved (mg/L as N)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, un-ionized, dissolved (mg/L as N)	Nitrogen, organic, dissolved (mg/L as N)	Ortho phosphorus, dissolved (mg/L as P)	Carbon, organic, dissolved (mg/L as C)	Cyanide, dissolved (mg/L as CN)
1	10-19-89	1.7	0.02	0.01	<0.01	0.29	<0.01	0.4	--
2	10-19-89	.20	<.01	.06	.01	<.20	.01	.4	--
3	09-19-89	.36	<.01	.07	<.01	<.20	<.01	.3	--
4	05-02-89	1.6	<.01	.06	<.01	.24	.02	.7	<.01
5	12-01-88	1.1	<.01	.03	<.01	<.20	.06	.7	<.01
6	02-24-89	.63	.01	.06	<.01	<.20	.04	.7	<.01
7	12-01-88	2.9	<.01	<.01	<.01	<.20	.02	.4	.01
8	11-29-88	1.6	<.01	.03	<.01	<.20	.04	.6	--
9	10-20-89	<.10	<.01	.02	<.01	.48	.02	.5	<.01
10	06-23-88	<.10	<.01	1.2	<.01	<.20	.20	2.1	--
11	06-23-88	<.10	<.01	.03	<.01	<.20	.16	2.3	--
12	12-08-88	<.10	<.01	.08	<.01	.22	<.01	.4	<.01
13	01-31-89	1.0	<.01	.03	<.01	<.20	.01	.6	<.01
14	01-24-89	<.10	<.01	<.01	<.01	.30	<.01	.4	<.01
15	10-02-89	.40	<.01	.04	<.01	.56	.04	.4	--
16	07-26-88	<.10	<.01	.04	<.01	.46	.04	2.4	--
	07-26-88	<.10	<.01	.04	<.01	<.20	.03	2.4	--
17	09-20-89	1.2	<.01	<.01	<.01	<.20	.02	.3	--
18	09-27-89	2.7	<.01	.01	<.01	.49	<.01	.3	<.01
19	07-26-88	<.10	<.01	.21	<.01	.29	.30	2.8	--
20	09-27-89	.55	<.01	<.01	<.01	<.20	.10	.4	<.01
21	09-25-89	<.10	<.01	.14	<.01	<.20	.14	.2	--
22	01-10-89	3.6	<.01	.02	<.01	.38	.02	1.4	<.01
23	02-01-89	.69	<.01	.01	<.01	.29	.05	.4	<.01
24	12-05-88	3.4	.01	<.01	<.01	.60	.01	.3	<.01
25	09-28-89	.82	<.01	.02	<.01	.38	.03	.2	<.01
26	09-21-89	2.8	.02	<.01	<.01	.20	.03	.3	--
27	01-11-89	5.6	<.01	<.01	<.01	.60	<.01	.7	<.01
28	09-26-89	1.8	<.01	.02	<.01	.28	<.01	.2	<.01
29	09-26-89	1.4	<.01	.01	<.01	<.20	<.01	.4	--
30	09-21-89	2.2	<.01	.01	<.01	<.20	.01	.3	<.01
31	10-11-89	<.10	<.01	.02	<.01	<.20	.05	.4	--
32	01-13-89	4.2	<.01	<.01	<.01	.60	.02	1.3	--
33	02-01-89	<.10	<.01	<.01	<.01	.20	.02	.4	--
34	09-30-89	<.10	<.01	1.6	.03	.20	<.01	.5	--

Table 26. Minor constituents in ground-water samples from Dayton and Churchill Valleys

[Additional dissolved arsenic analyses shown in parentheses; arsenate and arsenite values are for analyses by Battelle Marine Research Laboratory, Sequim, Washington. Additional dissolved iron analyses shown in parentheses; ferrous, and ferric iron values are for analyses by the U.S. Geological Survey in Carson City, Nevada. Abbreviations and symbols: µg/L, micrograms per liter; --, not determined; <, less than]

Site (fig. 4)	Date	Aluminum dissolved (µg/L as Al)	Antimony, dissolved (µg/L as Sb)	Arsenic, dissolved (µg/L as As)	Arsenite arsenic, dissolved (µg/L as As)	Arsenate arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)
1	10-19-89	--	<1	1	--	--	62	<.5	160	<1
2	10-19-89	--	<1	1	--	--	20	<.5	950	<1
3	09-19-89	--	<1	1	--	--	10	<.5	40	<1
4	05-02-89	--	<1	14	--	--	17	<.5	290	<1
5	12-01-88	--	<1	2	--	--	71	<.5	250	<1
6	02-24-89	--	<1	1	--	--	38	<.5	40	<1
7	12-01-88	--	<1	2	--	--	18	<.5	40	<1
8	11-29-88	--	<1	7	--	--	32	<.5	180	<1
9	10-20-89	--	4	14	--	--	11	<.5	40	<1
10	06-23-88	--	<1	3	--	--	26	<.5	310	<1
11	06-23-88	--	1	6	--	--	48	<.5	210	1
12	12-08-88	--	<1	9	--	--	51	<.5	710	<1
13	01-31-89	--	<1	<1	--	--	14	<.5	780	<1
14	01-24-89	--	<1	6 (5.6)	3	2.6	45	<.5	220	<1
15	10-02-89	--	3	33	--	--	30	<.5	310	<1
16	07-26-88	--	<1	3	--	--	35	<.5	490	<1
	07-26-88	--	<1	3	--	--	35	<.5	500	<1
17	09-20-89	--	1	7	--	--	34	<.5	1,500	<1
18	09-27-89	--	<1	<1	--	--	17	<.5	30	<1
19	07-26-88	--	1	19 (25)	2.3	2.2	51	<.5	220	<1
20	09-27-89	--	<1	5	--	--	120	<.5	40	<1
21	09-25-89	--	2	11	--	--	58	<.5	140	<1
22	01-10-89	--	<1	9	--	--	80	<.5	160	<1
23	02-01-89	--	<1	7	--	--	33	<.5	80	<1
24	12-05-88	--	<1	13	--	--	110	<.5	90	<1
25	09-28-89	--	2	33	--	--	28	<.5	80	<1
26	09-21-89	--	<1	3	--	--	25	<.5	150	<1
27	01-11-89	--	<1	13	--	--	120	<.5	100	<1
28	09-26-89	--	1	6	--	--	57	<.5	60	<1
29	09-26-89	--	1	15	--	--	30	<.5	200	<1
30	09-21-89	--	2	12	--	--	25	<.5	60	1
31	10-11-89	--	2	20	--	--	40	<.5	150	<1
32	01-13-89	--	1	13 (11)	4.7	6.1	34	<.5	170	<1
33	02-01-89	--	2	46 (110)	8.4	9.8	16	<1.5	3,200	<3
34	09-30-89	--	1	8	--	--	27	<.5	150	<1

Table 26. Minor constituents in ground-water samples from Dayton and Churchill Valleys—Continued

Site (fig. 4)	Date	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Ferrous iron, dissolved (µg/L as Fe)	Ferric iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)
1	10-19-89	<5	<3	<10	<3	--	--	<10	23	14
2	10-19-89	<5	<3	<10	4	--	--	<10	110	1
3	09-19-89	<5	<3	<10	67	--	--	10	10	6
4	05-02-89	<5	<3	<10	7	--	--	<10	27	<1
5	12-01-88	<5	<3	<10	8	--	--	<10	20	<1
6	02-24-89	<5	14	<10	940	--	--	<10	15	64
7	12-01-88	<5	<3	<10	12	--	--	<10	16	<1
8	11-29-88	<5	<3	<10	16 (24)	6.3	18	10	22	2
9	10-20-89	<5	<3	<10	13	--	--	<10	15	16
10	06-23-88	<5	<3	<10	3,900 (3,900)	3,500	460	<10	34	2,800
11	06-23-88	<5	<3	<10	12	.10	--	<10	45	36
12	12-08-88	<5	<3	<10	180	--	--	<10	130	76
13	01-31-89	<5	<3	<10	52	--	--	<10	29	10
14	01-24-89	<5	<3	<10	260	--	--	<10	22	9
15	10-02-89	<5	<3	<10	7	--	--	<10	18	3
16	07-26-88	<5	<3	<10	370	--	--	<10	32	2,300
	07-26-88	<5	<3	<10	370	--	--	<10	31	2,300
17	09-20-89	<5	<3	<10	11	--	--	<10	64	3
18	09-27-89	<5	<3	<10	9	--	--	<10	8	2
19	07-26-88	<5	<3	<10	380 (310)	270	46	<10	9	1,900
20	09-27-89	<5	<3	<10	7	--	--	10	7	<1
21	09-25-89	<5	<3	<10	21	--	--	<10	13	310
22	01-10-89	<5	<3	<10	2	--	--	<10	15	1
23	02-01-89	<5	<3	<10	7	--	--	<10	7	1
24	12-05-88	<5	<3	<10	<3	--	--	<10	5	<1
25	09-28-89	<5	<3	<10	6	--	--	10	15	<1
26	09-21-89	<5	<3	<10	3	--	--	<10	18	34
27	01-11-89	<5	<3	<10	<3	--	--	<10	6	<1
28	09-26-89	<5	<3	<10	94	--	--	<10	7	9
29	09-26-89	<5	<3	<10	26	--	--	<10	36	1
30	09-21-89	<5	<3	<10	23	--	--	<10	15	3
31	10-11-89	<5	<3	<10	94	--	--	<10	16	110
32	01-13-89	<5	<3	<10	7	--	--	<10	31	<1
33	02-01-89	<15	<9	<30	27	--	--	<30	420	<3
34	09-30-89	<5	<3	<10	1,100	--	--	<10	270	450

Table 26. Minor constituents in ground-water samples from Dayton and Churchill Valleys—Continued

Site (fig. 4)	Date sampled	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Selenium, dissolved (µg/L as Se)	Silver, dissolved (µg/L as Ag)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
1	10-19-89	<0.1	<10	<10	<1	<1	530	<6	39
2	10-19-89	<.1	20	<10	<1	<1	2,700	<6	<3
3	09-19-89	.1	<10	<10	<1	<1	4,800	16	80
4	05-02-89	<.1	10	<10	<1	1	2,500	6	13
5	12-01-88	.1	20	<10	1	<1	1,000	<6	10
6	02-24-89	<.1	<10	<10	<1	2	1,200	<6	120
7	12-01-88	<.1	<10	<10	1	<1	850	8	15
8	11-29-88	<.1	<10	<10	12	<1	1,100	12	140
9	10-20-89	<.1	<10	<10	<1	<1	540	<6	14
10	06-23-88	<.1	<10	<10	<1	2	1,100	<6	<3
11	06-23-88	<.1	20	<10	<1	<1	610	<6	9
12	12-08-88	<.1	<10	<10	<1	<1	730	<6	<3
13	01-31-89	<.1	10	<10	<1	<1	1,000	<6	140
14	01-24-89	<.1	<10	<10	<1	<1	450	<6	22
15	10-02-89	<.1	20	<10	<1	2	230	33	11
16	07-26-88	<.1	<10	<10	<1	<1	990	<6	<3
	07-26-88	<.1	<10	<10	<1	<1	990	<6	<3
17	09-20-89	<.1	10	10	<1	1	420	22	22
18	09-27-89	<.1	<10	<10	2	<1	650	<6	47
19	07-26-88	<.1	20	<10	<1	<1	290	<6	<3
20	09-27-89	<.1	<10	<10	<1	<1	370	27	84
21	09-25-89	<.1	<10	<10	<1	<1	250	<6	5
22	01-10-89	<.1	<10	<10	2	<1	640	15	14
23	02-01-89	<.1	<10	<10	<1	<1	400	14	21
24	12-05-88	<.1	<10	<10	1	<1	350	24	19
25	09-28-89	<.1	<10	<10	<1	<1	320	27	23
26	09-21-89	<.1	30	<10	9	<1	700	13	170
27	01-11-89	<.1	<10	10	1	<1	420	35	<3
28	09-26-89	<.1	<10	<10	2	<1	330	14	83
29	09-26-89	<.1	<10	<10	3	<1	470	15	15
30	09-21-89	.6	<10	<10	1	<1	410	14	110
31	10-11-89	<.1	10	10	<1	<1	240	<6	8
32	01-13-89	<.1	10	<10	7	<1	470	18	5
33	02-01-89	<.1	<30	<30	<1	<3	920	41	38
34	09-30-89	<.1	<10	<10	<1	<1	970	<6	1,800

Table 27. Radionuclides in ground-water samples from Dayton and Churchill Valleys

[Uranium (natural) and uranium extraction in pCi/L are calculated from the corresponding uranium values in µg/L by assuming that the activity ratio of U-234 to U-238 is 1. Abbreviations and symbols: µg/L, micrograms per liter; pCi/L, picocuries per liter; --, not determined; <, less than; Cs-137, cesium-137; Sr-90/Y-90, strontium-90/yttrium-90]

Site (fig. 4)	Date	Radon-222, dissolved (pCi/L)	Radium-226, dissolved, radon method (pCi/L)	Radium-228, dissolved (pCi/L as Ra-228)	Uranium (natural), dissolved (µg/L as U)	Uranium (natural), dissolved (pCi/L)	Gross alpha, dissolved (µg/L as U, natural)	Gross alpha, dissolved (pCi/L)	Gross beta, dissolved (pCi/L as Cs-137)	Gross beta, dissolved (pCi/L as Sr-90/Y-90)
1	10-19-89	150	--	--	--	--	5.3	3.6	5.8	5.2
2	10-19-89	240	--	--	--	--	1.5	1.0	4.2	3.8
3	09-19-89	970	--	--	1.6	1.1	2.6	1.8	8.4	7.6
4	05-02-89	690	0.10	1.0	--	--	--	--	10	9.1
5	12-01-88	1,000	--	--	7.9	5.4	9.1	6.2	14	9.7
6	02-24-89	1,800	--	--	23	16	31	21	32	21
7	12-01-88	1,200	--	--	4.1	2.8	6.7	4.5	14	9.5
8	11-29-88	320	--	--	6.8	4.6	6.3	4.3	20	13
9	10-20-89	170	--	--	--	--	<.4	<.3	4.3	4.0
10	06-23-88	190	--	--	1.6	1.1	2.6	1.8	21	14
11	06-23-88	310	--	--	1.1	.75	2.3	1.6	4.0	3.0
12	12-08-88	580	--	--	1.5	1.0	2.2	1.5	5.9	4.2
13	01-31-89	770	--	--	<.4	<.3	2.5	1.7	8.3	5.4
14	01-24-89	810	--	--	8.8	6.0	27	18	12	9.3
15	10-02-89	--	--	--	--	--	3.4	2.3	3.9	3.5
16	07-26-88	390	--	--	28	19	36	24	30	20
	07-26-88	340	--	--	--	--	24	16	30	20
17	09-20-89	750	--	--	5.1	3.5	8.9	6.0	8.2	7.3
18	09-27-89	750	--	--	--	--	3.1	2.1	5.3	4.4
19	07-26-88	480	--	--	.7	.5	1.4	1.0	6.3	4.7
20	07-26-88	--	--	--	--	--	2.0	1.4	5.4	3.9
21	09-27-89	620	--	--	--	--	1.6	1.1	13	12
22	09-25-89	580	--	--	2.2	1.5	5.8	3.9	7.6	6.0
23	01-10-89	480	--	--	1.6	1.1	2.6	1.8	9.8	6.7
	02-01-89	960	--	--	3.7	2.5	6.3	4.3	14	10
24	12-05-88	750	--	--	1.9	1.3	3.3	2.2	6.9	5.2
25	09-28-89	260	--	--	--	--	6.7	4.5	7.0	6.1
26	09-21-89	180	--	--	<.40	<.3	1.7	1.2	4.7	4.0
27	01-11-89	630	--	--	1.0	.7	1.6	1.1	5.6	4.2
28	09-26-89	460	--	--	--	--	1.8	1.2	8.5	7.2
29	09-26-89	840	--	--	--	--	1.0	.7	10	8.5
30	09-21-89	340	--	--	.7	.5	1.7	1.2	6.7	5.7
31	10-11-89	570	--	--	2.4	1.6	1.4	1.0	12	9.6
32	01-13-89	890	--	--	2.1	1.4	2.2	1.5	12	8.6
33	02-01-89	1,000	--	--	4.0	2.7	5.0	3.4	28	18
34	09-30-89	160	--	--	--	--	.70	.50	8.2	8.3

Table 28. Isotopes in ground-water samples from Dayton and Churchill Valleys

[Stable isotopes evaluated are carbon-13 relative to carbon-12 ($^{13}C/^{12}C$), deuterium (hydrogen-2) relative to hydrogen-1 ($D/^{1}H$), oxygen-18 relative to oxygen-16 ($^{18}O/^{16}O$), and sulfur-34 relative to sulfur-32 ($^{34}S/^{32}S$). Each ratio was determined for a water sample, then related mathematically to the comparable ratio for the following international reference standards: Peedee belemnite for carbon, Vienna Standard Mean Ocean Water for hydrogen and oxygen, and Canyon Diablo troilite for sulfur isotopes. Computed results are expressed as "delta carbon-13," "delta deuterium," "delta oxygen-18," and "delta sulfur-34"; units of measure are parts per thousand (abbreviated "permil"). A negative delta value indicates that the water sample is isotopically lighter than the standard (for example, the water sample has a smaller proportion of deuterium relative to hydrogen-1 than the standard). Abbreviations and symbols: pCi/L, picocuries per liter; PMC, percent modern carbon; --, not determined; <, less than]

Site (fig. 4)	Date	Delta deuterium (permil)	Delta oxygen-18 (permil)	Delta carbon-13 (permil)	Carbon-14 (PMC)	Tritium (pCi/L)	Delta sulfur-34 (permil)
1	10-19-89	-108	-13.6	-14.4	92	3.4	15.2
2	10-19-89	-124	-16.0	-16.9	--	.4	18.5
3	09-19-89	-113	-15.1	--	--	<.3	--
4	05-02-89	-110	-14.6	-13.7	--	46	--
5	12-01-88	-104	-13.1	-14.4	110	27	--
6	02-24-89	-111	-14.0	-14.9	--	--	--
7	12-01-88	-113	-14.2	--	--	.4	--
8	11-29-88	-115	-14.2	-11.6	84	6.9	.5
9	10-20-89	-115	-14.3	--	--	1.3	--
10	06-23-88	-109	-14.4	--	--	--	--
11	06-23-88	-107	-13.7	--	--	--	--
12	12-08-88	-119	-14.7	-15.1	--	93	-15.9
13	01-31-89	-121	-15.3	-12.5	--	--	8.2
14	01-24-89	-116	-14.4	-13.8	100	--	9.7
15	10-02-89	-113	-14.7	-10.9	52	3.3	11
16	07-26-88	-102	-13.4	--	--	--	--
17	09-20-89	-121	-15.2	-8.9	25	<.3	9.0
18	09-27-89	-112	-14.1	-9.9	91	<.3	-.8
19	07-26-88	-106	-13.8	--	--	--	--
20	09-27-89	-111	-14.4	--	--	<.3	--
21	09-25-89	-111	-14.5	-12.8	92	<.3	11.1
22	01-10-89	-116	-14.7	-11.6	72	--	8.3
23	02-01-89	-123	-15.0	-10.4	46	--	3.8
24	12-05-88	-120	-14.7	-11.4	37	<.3	2.6
25	09-28-89	-120	-14.8	-10.9	68	<.3	2.3
26	09-21-89	-115	-12.9	--	--	<.3	--
27	01-11-89	-135	-16.4	-11.6	3.3	--	5.5
28	09-26-89	-134	-16.6	--	--	<.3	--
29	09-26-89	-129	-15.9	-9.3	22	.3	-2.9
30	09-21-89	-121	-15.6	-9.7	35	<.3	-2.0
31	10-11-89	-111	-14.7	-13	79	<.3	11.9
32	01-13-89	-127	-15.9	-10.2	28	--	-.2
33	02-01-89	-134	-15.2	-8.0	10	--	14.4
34	09-30-89	-141	-17.9	--	--	.4	--

Table 29. Carbamate insecticides in ground-water samples from Dayton and Churchill Valleys

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 4)	Date	Methomyl, total, (µg/L)	Propham total, (µg/L)	Sevin, (µg/L)
10	06-23-88	<0.50	<0.50	<0.50
11	06-23-88	<.50	<.50	<.50
16	07-26-88	<.50	<.50	<.50
19	07-26-88	<.50	<.50	<.50

Table 30. Chlorophenoxy-acid herbicides in ground-water samples from Dayton and Churchill Valleys

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 4)	Date	2,4-D, total (µg/L)	2,4,5-total (µg/L)	SILVEX, total (µg/L)	2,4-DP total (µg/L)
10	06-23-88	<0.01	<0.01	<0.01	<0.01
	05-12-89	<.01	<.01	<.01	<.01
11	06-23-88	<.01	<.01	<.01	<.01
	05-10-89	<.01	<.01	<.01	<.01
16	07-26-88	<.01	<.01	<.01	<.01
19	07-26-88	<.01	<.01	<.01	<.01

Table 31. Triazines and other nitrogen-containing pesticides in ground-water samples from Dayton and Churchill Valleys

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 4)	Date	Alachlor, total recoverable (µg/L)	Ametryne, total (µg/L)	Atrazine, total (µg/L)	Cyanazine, total (µg/L)	Metachlor, total (µg/L)	Prometone, total (µg/L)	Prometryne, total (µg/L)	Propazine, total (µg/L)	Simazine, total (µg/L)	Simetryne total (µg/L)	Trifluralin, total recoverable (µg/L)
10	06-23-88	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	05-12-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
11	06-23-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	05-10-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
16	07-26-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
19	07-26-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1

Table 32. Organochlorine and organophosphorus compounds in ground-water samples from Dayton and Churchill Valleys

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 4)	Date	PCB, dissolved (µg/L)	PCN, dissolved (µg/L)
10	06-23-88	<0.1	<0.1
	05-12-89	<.1	<.1
11	06-23-88	<.1	<.1
	05-10-89	<.1	<.1
16	07-26-88	<.1	<.1
19	07-26-88	<.1	<.1

Table 33. Volatile organic compounds in ground-water samples from Dayton and Churchill Valleys

[Abbreviations and symbols: µg/L, micrograms per liter; --, not determined; <, less than]

Site (fig. 4)	Date	Methyl-chloride, total (µg/L)	Methylene chloride, total (µg/L)	Chloroform, total (µg/L)	Carbon tetrachloride, total (µg/L)	Methyl bromide, total (µg/L)	Dibromomethane, whole-water (µg/L)	Bromoform, total (µg/L)	Dichlorobromomethane, total (µg/L)	Chlorodibromomethane, total (µg/L)
1	10-19-89	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2	10-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
3	09-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
4	05-02-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
5	12-01-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
6	02-24-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
7	12-01-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
8	11-29-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
10	06-23-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
11	06-23-88	<.2	<.5	<.2	<.2	<.2	<.2	<.2	<.2	<.2
12	12-08-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
13	01-31-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
14	01-24-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
16	07-26-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
17	09-20-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
18	09-27-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
19	07-26-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
20	09-27-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
21	09-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
22	01-10-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
23	02-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
24	12-05-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
25	09-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
26	02-28-90	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
27	01-11-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
28	09-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
29	09-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
30	09-21-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
31	10-11-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
32	01-13-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
33	02-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
34	09-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 33. Volatile organic compounds in ground-water samples from Dayton and Churchill Valleys—Continued

Site (fig. 4)	Date	Trichlorofluoromethane, total (µg/L)	Dichlorodifluoromethane, total (µg/L)	Chloroethane, total (µg/L)	1,1-Dichloroethane, total (µg/L)	1,2-Dichloroethane, total (µg/L)	1,1,1-Trichloroethane, total (µg/L)	1,1,2-Trichloroethane, total (µg/L)	1,1,2,2-Tetrachloroethane, total (µg/L)	1,2-Dibromoethane, whole-water, total (µg/L)
1	10-19-89	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2	10-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
3	09-19-89	<.2	<.2	<.2	<.2	<.2	.3	<.2	<.2	<.2
4	05-02-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
5	12-01-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
6	02-24-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
7	12-01-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
8	11-29-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
10	06-23-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--
11	06-23-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--
12	12-08-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
13	01-31-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
14	01-24-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
16	07-26-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
17	09-20-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
18	09-27-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
19	07-26-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
20	09-27-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
21	09-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
22	01-10-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
23	02-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
24	12-05-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
25	09-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
26	02-28-90	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
27	01-11-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
28	09-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
29	09-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
30	09-21-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
31	10-11-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
32	01-13-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
33	02-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
34	09-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 33. Volatile organic compounds in ground-water samples from Dayton and Churchill Valleys—Continued

Site (fig. 4)	Date	Vinyl chloride, total (µg/L)	1,1-Dichloroethylene, total (µg/L)	Trichloroethylene, total (µg/L)	Tetrachloroethylene, total (µg/L)	1,2-Dibromoethylene, total (µg/L)	1,2-Dichloropropane, total (µg/L)	1,2,3-Trichloropropane, whole-water, total (µg/L)	Trans-1,3-Dichloropropene, total (µg/L)	Cis-1,3-Dichloropropene, total (µg/L)
1	10-19-89	<0.2	<0.2	<0.2	<0.2	--	<0.2	<0.2	<0.2	<0.2
2	10-19-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
3	09-19-89	<.2	<.2	<.2	.5	--	<.2	<.2	<.2	<.2
4	05-02-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
5	12-01-88	<.2	<.2	<.2	.2	--	<.2	<.2	<.2	<.2
6	02-24-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
7	12-01-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
8	11-29-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
10	06-23-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
11	06-23-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
12	12-08-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
13	01-31-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
14	01-24-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
16	07-26-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
17	09-20-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
18	09-27-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
19	07-26-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
20	09-27-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
21	09-25-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
22	01-10-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
23	02-01-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
24	12-05-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
25	09-28-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
26	02-28-90	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
27	01-11-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
28	09-26-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
29	09-26-89	<.2	<.2	<.2	.3	--	<.2	<.2	<.2	<.2
30	09-21-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
31	10-11-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
32	01-13-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
33	02-01-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2
34	09-30-89	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2

Table 33. Volatile organic compounds in ground-water samples from Dayton and Churchill Valleys—Continued

Site (fig. 4)	Date	Benzene, total (µg/L)	Xylene, whole-water, total (µg/L)	Ethyl benzene, total (µg/L)	Toluene, total (µg/L)	Styrene, total (µg/L)	Chloro-benzene, total (µg/L)	1,2-Di-chloro-benzene, total (µg/L)	1,3-Di-chloro-benzene, total (µg/L)	1,4-Di-chloro-benzene, total (µg/L)
1	10-19-89	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
2	10-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
3	09-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
4	05-02-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
5	12-01-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
6	02-24-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
7	12-01-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
8	11-29-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
10	06-23-88	<.2	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
11	06-23-88	--	--	--	--	<.2	<.2	<5	<5	<5
12	12-08-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
13	01-31-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
14	01-24-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
16	07-26-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
17	09-20-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
18	09-27-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
19	07-26-88	<.2	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
20	09-27-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
21	09-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
22	01-10-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
23	02-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
24	12-05-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
25	09-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
26	02-28-90	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
27	01-11-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
28	09-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
29	09-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
30	09-21-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
31	10-11-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
32	01-13-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
33	02-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
34	09-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 34. Phenolic compounds in ground-water samples from Dayton and Churchill Valleys

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 2)	Date	4-6 Dinitro-ortho-cresol, total (µg/L)	Para-chloro-meta-cresol, total (µg/L)	2-Chloro-phenol total (µg/L)	2,4-Di-chloro-phenol total (µg/L)	2,4-Di-methyl-phenol, total (µg/L)	2,4-Dini-tro-phenol, total (µg/L)
10	06-23-88	<30	<30	<5	<5	<5	<20
11	06-23-88	<30	<30	<5	<5	<5	<20
16	07-26-88	<30	<30	<5	<5	<5	<20
19	07-26-88	<30	<30	<5	<5	<5	<20

Site (fig. 2)	Date	2-Nitro-phenol, total (µg/L)	4-Nitro-phenol, total (µg/L)	Penta-chloro-phenol, total (µg/L)	Phenol, total (µg/L)	2,4,6-Tri-chlorophenol, total (µg/L)
10	06-23-88	<5	<30	<30	<5	<20
11	06-23-88	<5	<30	<30	<5	<20
16	07-26-88	<5	<30	<30	<5	<20
19	07-26-88	<5	<30	<30	<5	<20

Table 35. Polynuclear aromatic compounds in ground-water samples from Dayton and Churchill Valleys

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 4)	Date	Acenaphthylene, total (µg/L)	Acenaphthene, total (µg/L)	Anthracene, total (µg/L)	Benzo(a)anthracene, total (µg/L)	Benzo(a)pyrene, total (µg/L)	Benzo(b)fluoranthene, total (µg/L)	Benzo(g,h,i)perylene, total (µg/L)	Benzo(k)fluoranthene, total (µg/L)
10	06-23-88	<5	<5	<5	<5	<10	<10	<10	<10
11	06-23-88	<5	<5	<5	<5	<10	<10	<10	<10
16	07-26-88	<5	<5	<5	<5	<10	<10	<10	<10
19	07-26-88	<5	<5	<5	<5	<10	<10	<10	<10

Site (fig. 4)	Date	Bis 2-chloroisopropyl-ether, total (µg/L)	Bis 2-chloroethoxymethane, total (µg/L)	Bis 2-chloroethyl ether, total (µg/L)	4-Bromophenyl ether, total (µg/L)	2-Chloronaphthalene, total (µg/L)	4-Chlorophenyl ether, total (µg/L)	Chrysene, total (µg/L)	1,2,5,6-Dibenzanthracene, total (µg/L)
10	06-23-88	<5	<5	<5	<5	<5	<5	<10	<10
11	06-23-88	<5	<5	<5	<5	<5	<5	<10	<10
16	07-26-88	<5	<5	<5	<5	<5	<5	<10	<10
19	07-26-88	<5	<5	<5	<5	<5	<5	<10	<10

Site (fig. 4)	Date	2,4-Dinitrotoluene, total (µg/L)	2,6-Dinitrotoluene, total (µg/L)	Fluoranthene, total (µg/L)	Fluorene, total (µg/L)	Hexachlorocyclopentadiene, total (µg/L)	Hexachloroethane total (µg/L)	Indeno (1,2,3-cd) pyrene, total (µg/L)	Isophorone, total (µg/L)
10	06-23-88	<5	<5	<5	<5	<5	<5	<10	<5
11	06-23-88	<5	<5	<5	<5	<5	<5	<10	<5
16	07-26-88	<5	<5	<5	<5	<5	<5	<10	<5
19	07-26-88	<5	<5	<5	<5	<5	<5	<10	<5

Site (fig. 4)	Date	N-nitrosodi-n-propylamine, total (µg/L)	N-nitrosodiphenylamine, total (µg/L)	N-nitrosodimethylamine (µg/L)	Naphthalene, total (µg/L)	Phenanthrene, total (µg/L)	Bis (2-ethylhexyl) phthalate, total (µg/L)	Diethylphthalate, total (µg/L)
10	06-23-88	<5	<5	<5	<5	<5	<5	<5
11	06-23-88	<5	<5	<5	<5	<5	<5	<5
16	07-26-88	<5	<5	<5	<5	<5	<16	<5
19	07-26-88	<5	<5	<5	<5	<5	<6	<5

Site (fig. 4)	Date	Dimethylphthalate, total (µg/L)	Di-n-butyiphthalate total (µg/L)	Di-n-octylphthalate total (µg/L)	Benzyl butyl phthalate total (µg/L)	Pyrene, total (µg/L)	1,2,4-Trichlorobenzene, total (µg/L)
10	06-23-88	<5	<5	<10	<5	<5	<5
11	06-23-88	<5	<5	<10	<5	<5	<5
16	07-26-88	<5	<5	<10	<5	<5	<5
19	07-26-88	<5	<5	<10	<5	<5	<5

Table 36. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Desert

[**Local site identification:** Indicates township, range, section number, location within the section, and sequence number (see text for complete description of local site-indentification system). **Total depth of well:** Sources of information on well depth are drillers' logs (on file at Nevada Division of Water Resources or the U.S. Geological Survey, Carson City, Nevada). Specific conductance, pH, water temperature, Eh, dissolved oxygen, hydrogen sulfide, bicarbonate, and carbonate were measured in field, except those marked 'L' were measured in laboratory. **Field measurements and sampling:** Duplicate samples for a site are indicated by a time difference of one minute. **Abbreviations and symbols:** mg/L, milligrams per liter; mV, millivolts; µS/cm, microsiemens per centimeter at 25 degrees Celsius; °C, degrees Celsius; --, not determined; <, less than; S, shallow aquifers; I, intermediate aquifers; B, basalt aquifers]

Site (fig. 5)	Symbol	Latitude	Longitude	Local site identification	Altitude of land surface (feet)	Total depth of well (feet)	Date sampled	Time	Field measurements					
									Specific conductance (µS/cm)	pH (standard units)	Eh (mV)	Water temperature (°C)	Oxygen, dissolved (mg/L)	Hydrogen sulfide, dissolved (mg/L)
1	S	39°21'12"	118°41'09"	N17 E29 12BCCA3	3,900	25	01-20-89	1130	39,800	7.5	620	13.0	<1.0	<0.05
2	S	39°21'12"	118°41'09"	N17 E29 12BCCA4	3,900	15	01-20-89	0945	36,400	7.5	280	13.0	<1.0	<.05
3	S	39°21'17"	118°41'09"	N17 E29 12BCBA1	3,900	35	02-03-89	1115	50,500	7.3	-180	12.0	1.9	--
4	S	39°21'17"	118°41'09"	N17 E29 12BCBA2	3,900	25	02-03-89	0900	53,700	7.5	500	13.0	4.3	<.05
5	S	39°21'17"	118°41'09"	N17 E29 12BCBA3	3,900	15	01-18-89	1515	47,500	7.4	470	12.5	3.1	<.05
6	S	39°21'22"	118°41'10"	N17 E29 12BBCC1	3,900	34	01-19-89	1000	48,500	7.3	230	12.0	1.1	<.05
7	S	39°21'22"	118°41'10"	N17 E29 12BBCC2	3,900	25	01-19-89	1230	48,200	7.6	320	13.0	2.0	<.05
8	S	39°21'22"	118°41'10"	N17 E29 12BBCC3	3,900	15	01-19-89	1415	44,900	7.5	250	13.5	1.4	<.05
9	S	39°21'27"	118°41'10"	N17 E29 12BBBC1	3,900	34	02-02-89	1315	51,200	7.5	550	13.5	1.5	<.05
10	S	39°21'27"	118°41'10"	N17 E29 12BBBC2	3,900	24	02-02-89	1115	51,500	7.3	390	13.5	1.4	<.05
11	S	39°21'27"	118°41'10"	N17 E29 12BBBC3	3,900	15	02-02-89	0915	49,000	7.4	470	12.5	1.8	<.05
12	S	39°21'32"	118°41'10"	N17 E29 12BBBB2	3,900	30	01-17-89	1300	56,600	7.4	810	12.5	2.0	--
13	S	39°21'32"	118°41'10"	N17 E29 12BBBB3	3,900	19	01-18-89	1030	56,400	7.0	210	12.5	<1.0	<.05
14	S	39°21'32"	118°41'10"	N17 E29 12BBBB4	3,900	15	01-18-89	1145	52,700	7.3	350	13.0	<1.0	<.05
15	S	39°22'00"	118°45'42"	N17 E29 05BCBB1	3,940	24	03-08-89	1415	1,840	7.1	390	14.0	<1.0	--
16	I	39°22'32"	118°48'51"	N18 E28 35CDBD1	3,940	126	04-18-89	1330	1,010	9.5	230	16.0	--	--
							04-18-89	1331	1,010	9.5	--	16.0	--	--
							05-31-89	1415	1,000	9.5	--	17.5	<1.0	.88
17	I	39°23'19"	118°43'38"	N18 E29 28DDCD1	3,930	180	04-21-89	0830	1,760	8.6	--	17.0	<1.0	--
18	S	39°23'27"	118°42'54"	N18 E29 27CDAD1	3,920	13	07-13-88	1300	20,000	7.3	410	17.5	1.1	--
19	S	39°23'51"	118°46'26"	N18 E29 30BDBA1	3,960	24	03-07-89	1000	1,380	8.8	410	14.0	<1.0	--
20	S	39°24'25"	118°47'04"	N18 E28 23ADDB1	3,960	12	07-12-88	1000	2,770	7.6	360	16.0	2.9	--
							07-12-88	1001	2,770	7.6	360	16.0	2.9	--
21	I	39°24'31"	118°46'59"	N18 E28 23ADAA1	3,960	128	04-20-89	1330	521	9.2	370	15.0	<1.0	--
22	S	39°24'58"	118°44'48"	N18 E29 20AABC1	3,940	13	07-13-88	1000	1,140	6.9	--	17.0	--	--

Table 36. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Symbol	Latitude	Longitude	Local site identification	Altitude of land surface (feet)	Total depth of well (feet)	Date sampled	Time	Field measurements					
									Specific conductance (µS/cm)	pH (standard units)	Eh (mV)	Water temperature (°C)	Oxygen, dissolved (mg/L)	Hydrogen sulfide, dissolved (mg/L)
23	I	39°25′48″	118°46′18″	N18 E29 18BAAD1	3,960	144	04-20-89	1045	541	9.4	--	16.0	<1.0	--
24	I	39°26′15″	118°49′43″	N18 E28 10CAAA1	3,970	175	01-27-89	1030	337	8.5	80	14.5	<1.0	--
							01-27-89	1031	337	8.5	--	14.5	<1.0	--
25	I	39°26′21″	118°52′23″	N18 E28 08BCCC1	3,980	59	08-10-89	0930	390	8.1	160	16.0	<1.0	--
26	S	39°26′42″	118°47′09″	N18 E28 12ABAC1	3,960	14	07-12-88	1500	566	7.3	380	22.5	<1.0	--
27	I	39°26′48″	118°45′40″	N18 E29 05CCCB1	3,960	120	04-20-89	0830	464	9.4	500	16.5	<1.0	--
28	I	39°26′59″	118°44′40″	N18 E29 05DDAB1	3,940	129	03-08-89	1100	636	9.2	410	15.5	<1.0	--
29	I	39°27′30″	118°41′48″	N18 E29 02BADA1	3,940	82	04-28-89	0915	1,610	8.8	--	15.0	<1.0	--
							05-31-89	1140	1,620	8.8	220	17.5	<1.0	0.55
30	S	39°27′30″	118°46′38″	N18 E29 06BBCA1	3,960	20	08-12-87	1130	1,633	7.7	410	19.0	<1.0	<.02
31							06-13-89	1700	1,790 L	7.9	440	17.0	<1.0	--
	S	39°27′30″	118°46′38″	N18 E29 06BBCA2	3,960	32	08-12-87	1400	1,101	7.9	380	18.0	<1.0	.02
32							06-12-89	1500	1,030 L	8.3 L	320	17.0	<1.0	--
	S	39°27′30″	118°46′38″	N18 E29 06BBCA3	3,960	11	08-12-87	1300	935	7.3	400	19.0	2.3	<.02
							06-12-89	1240	1,210 L	7.5 L	490	16.5	<1.0	--
33	S	39°27′30″	118°46′38″	N18 E29 06BBCA4	3,960	7	08-12-87	1530	761	7.3	200	21.0	--	<2.0
34	S	39°27′31″	118°46′38″	N18 E29 06BBCA5	3,960	9	08-12-87	0800	777	7.3	370	19.5	1.8	<.02
35	S	39°27′31″	118°46′38″	N18 E29 06BBCA6	3,960	22	08-12-87	1000	1,185	7.9	--	17.0	--	<.02
							06-13-89	1330	1,220 L	8.2 L	--	20.0	--	--
36	S	39°27′31″	118°46′38″	N18 E29 06BBCA7	3,960	32	08-12-87	0900	958	7.9	340	17.0	<1.0	<.02
							06-13-89	1500	1,110	7.8	410	18.0	<1.0	--
37	S	39°27′33″	118°46′38″	N18 E29 06BBBD5	3,960	10	08-11-87	1430	592	7.2	380	19.0	3.9	<.02
							06-13-89	0900	751 L	7.2 L	410	16.0	3.2	--
38	S	39°27′33″	118°46′38″	N18 E29 06BBBD6	3,960	21	08-11-87	1530	882	7.6	--	16.5	<1.0	<2.0
							06-13-89	1030	935 L	7.8 L	--	16.5	--	--
39	S	39°27′33″	118°46′38″	N18 E29 06BBBD7	3,960	29	08-11-87	1630	712	7.8	330	17.5	<1.0	<.02
							06-13-89	1200	780 L	7.9 L	450	18.0	1.0	--
40	I	39°27′35″	118°46′38″	N18 E29 06BBBD1	3,960	62	09-25-87	0900	1,086	7.9	--	--	--	--
41	S	39°27′35″	118°46′38″	N18 E29 06BBBD2	3,960	8	08-11-87	0930	673	7.3	360	20.0	3.4	<.02
42	S	39°27′35″	118°46′38″	N18 E29 06BBBD3	3,960	22	08-11-87	1200	1,177	7.6	370	16.5	<1.0	<.02

Table 36. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Symbol	Latitude	Longitude	Local site identification	Altitude of land surface (feet)	Total depth of well (feet)	Date sampled	Time	Field measurements					
									Specific conductance (µS/cm)	pH (standard units)	Eh (mV)	Water temperature (°C)	Oxygen, dissolved (mg/L)	Hydrogen sulfide, dissolved (mg/L)
43	S	39°27′35″	118°46′38″	N18 E29 06BBBD4	3,960	36	08-11-87	1300	478	8.0	-30	17.0	<1.0	<0.02
44	S	39°27′48″	118°51′57″	N19 E28 32CDAB1	3,980	13	06-21-88	1800	919	7.2	370	17.0	<1.0	--
							06-21-88	1801	919	7.2	370	17.0	<1.0	--
45	B	39°28′00″	118°44′32″	N19 E29 33CBBC1	3,950	540	01-26-89	1130	1,020	9.2	410	17.5	1.2	--
							01-26-89	1131	1,020	9.2	410	17.5	1.2	--
46	S	39°28′13″	118°49′53″	N19 E28 34BCAA1	4,000	13	08-03-88	1430	331	6.9	--	18.0	<1.0	<.05
							08-03-88	1431	331	6.9	--	18.0	<1.0	--
47	S	39°28′22″	118°39′54″	N19 E30 31BBAD1	3,940	11	06-22-88	0900	27,800	7.7	280	17.0	<1.0	--
							06-22-88	0901	27,800	7.7	280	17.0	<1.0	--
48	S	39°28′29″	118°52′00″	N19 E28 32BAAB1	3,980	12	06-21-88	1400	346	6.9	390	18.0	4.3	--
49	S	39°28′35″	118°49′05″	N19 E28 27DDDA1	3,980	26	06-21-88	1401	346	6.9	390	18.0	4.3	--
50	B	39°28′37″	118°46′29″	N19 E29 30CDBC2	3,960	521	08-30-89	1045	826	7.3	--	13.0	1.1	--
51	S	39°28′42″	118°42′54″	N19 E29 27CDAA1	3,940	12	01-25-89	1030	840	9.0	370	16.5	<1.0	--
							06-22-88	1200	743	7.4	360	14.5	<1.0	--
							06-22-88	1201	743	7.4	360	14.5	<1.0	--
52	I	39°28′47″	118°45′18″	N19 E29 29CACA1	3,960	93	02-22-89	1030	371	9.2	400	17.5	<1.0	--
							02-22-89	1031	371	9.2	--	17.5	<1.0	--
53	B	39°28′50″	118°46′34″	N19 E29 30CBAD1	3,960	484	01-25-89	1300	848	9.3	400	16.0	<1.0	--
54	I	39°28′59″	118°47′40″	N19 E28 25BCDD1	3,970	108	03-07-89	1300	295	8.5	30	15.5	<1.0	--
55	S	39°29′02″	118°35′32″	N19 E30 27ADDA1	3,920	28	06-21-88	0900	47,200	6.9	360	14.3	<1.0	--
56	S	39°29′03″	118°52′44″	N19 E28 30ADBC1	3,990	24	09-01-88	1430	--	7.1	--	15.5	--	--
57	I	39°29′04″	118°40′13″	N19 E29 25ADBD1	3,920	96	02-23-89	1230	967	7.3	460	14.5	<1.0	--
58	B	39°29′07″	118°45′37″	N19 E29 29BACB1	3,970	67	08-30-89	1600	3,470	8.5	--	18.0	<1.0	--
59	S	39°29′14″	118°40′06″	N19 E29 25AADA1	3,920	17	03-01-89	1245	996	9.3	370	20.5	<1.0	--
							04-19-89	1415	887	7.4	430	15.0	<1.0	--
60	S	39°29′21″	118°40′00″	N19 E30 30BBBA1	3,920	21	04-19-89	1145	1,888	7.6	140	15.5	<1.0	--
61	S	39°29′25″	118°48′20″	N19 E28 23DCDB1	3,980	30	03-09-89	1215	469	7.5	400	17.0	2.5	--
62	S	39°29′26″	118°53′30″	N19 E28 19CCCB1	4,000	18	09-01-88	1030	732	7.3	390	18.5	<1.0	--
63	I	39°29′29″	118°49′07″	N19 E28 22DDAD1	3,980	88	04-18-89	0930	457	8.0	290	16.0	--	--
64	S	39°29′38″	118°34′53″	N19 E30 23DBCD1	3,920	17	08-30-89	1400	823	7.4	--	19.5	1.3	--

Table 36. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Symbol	Latitude	Longitude	Local site identification	Altitude of land surface (feet)	Total depth of well (feet)	Date sampled	Time	Field measurements					
									Specific conductance (µS/cm)	pH (standard units)	Eh (mV)	Water temperature (°C)	Oxygen, dissolved (mg/L)	Hydrogen sulfide, dissolved (mg/L)
65	I	39°29′57″	119°00′18″	N19 E2 719BCB 1	4,080	99	02-28-89	0901	501	7.7	160	15.5	--	--
							02-28-89	0915	501	7.7	160	15.5	--	--
66	S	39°30′01″	118°56′59″	N19 E27 21ACAA1	4,000	40	04-26-89	1045	503	7.3	540	14.0	3.3	--
67	S	39°30′03″	118°40′20″	N19 E29 24ABDD1	3,920	12	08-03-88	1000	1,437	8.1	350	15.5	<1.0	<0.05
							08-03-88	1001	1,437	8.1	350	15.5	<1.0	--
68	S	39°30′04″	118°51′13″	N19 E28 21BBCA1	4,000	36	09-01-88	1530	1,740	8.0	--	17.0	--	--
69	S	39°30′14″	118°38′41″	N19 E29 08BBBB1	3,920	27	08-10-89	1110	909	9.0	80	15.5	<1.0	--
70	I	39°30′18″	118°54′40″	N19 E27 13CCCB1	4,010	179	04-26-89	0830	1,854	7.3	530	11.0	1.9	--
71	B	39°30′27″	118°46′15″	N19 E29 18DCBB1	3,960	510	02-28-89	1215	924	7.5	210	16.5	1.7	--
							03-02-89	1000	945	9.3	380	20.5	<1.0	--
72	S	39°30′38″	118°51′22″	N19 E28 17DAAC1	4,000	13	06-20-88	1300	852	7.4	370	18.0	1.2	--
							06-20-88	1301	852	7.4	370	18.0	1.2	--
73	I	39°30′51″	118°43′58″	N19 E29 16ACBB1	3,960	132	04-25-89	1230	613	9.2	--	16.0	<1.0	--
							06-01-89	1030	626	--	--	16.0	--	<.05
74	S	39°30′52″	118°33′35″	N19 E30 13ACAA1	3,900	12	08-02-88	1200	5,030	6.7	420	16.5	<1.0	<.05
75	I	39°31′01″	118°45′18″	N19 E29 17BABD1	3,950	100	05-03-89	1315	5,910 L	7.0	280	15.0	--	--
76	I	39°31′29″	118°45′46″	N19 E29 07DAAD1	3,960	63	03-06-89	1300	451	9.1	250	14.0	<1.0	--
77	I	39°31′41″	118°45′11″	N19 E29 08DABC1	3,940	300	05-31-89	0900	447	--	--	16.0	--	<.05
							03-01-89	1000	456	9.2	620	16.5	--	<.05
							04-25-89	1530	639	9.3	--	17.0	<1.0	--
78	B	39°33′41″	118°43′16″	N20 E29 34BBAC1	3,920	294	03-09-89	1000	1,130	9.4	350	17.5	<1.0	--
79	S	39°35′06″	118°43′22″	N20 E29 22CBAC1	3,920	12	06-01-89	1115	995	--	--	17.5	--	<.05
							08-02-88	1600	11,700	7.5	--	--	--	<.05

Table 36. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Major Constituents													
		Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity (mg/L as $CaCO_3$)	Bicarbonate, (mg/L as HCO_3)	Carbonate, (mg/L as CO_3)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Bromide, (mg/L as Br)	Silica, dissolved (mg/L as SiO_2)	Solids, dissolved, sum of constituents (mg/L)
1	01-20-89	3,900	250	800	10,000	170	752	917	--	10,000	11,000	0.7	23	33	32,700
2	01-20-89	3,500	280	670	8,700	150	692	844	--	10,000	8,900	.6	19	47	29,200
3	02-03-89	3,900	130	860	12,000	320	1,400	1,710	--	9,500	15,000	.6	33	35	38,700
4	02-03-89	4,500	150	1,000	13,000	310	1,060	1,290	--	10,000	18,000	.6	35	32	43,100
5	01-18-89	5,000	200	1,100	12,000	260	959	1,170	--	11,000	16,000	.8	35	40	41,200
6	01-19-89	3,900	150	850	11,000	280	1,280	1,560	--	8,700	15,000	.9	35	32	36,800
7	01-19-89	3,900	160	850	11,000	260	1,030	1,260	--	9,200	15,000	.6	32	28	37,100
8	01-19-89	3,700	160	800	11,000	220	943	1,150	--	9,100	13,000	.6	27	42	34,900
9	02-02-89	5,100	220	1,100	12,000	290	813	992	--	9,700	17,000	.7	38	29	40,800
10	02-02-89	5,300	310	1,100	12,000	260	728	888	--	9,400	17,000	.7	38	45	40,600
11	02-02-89	5,700	300	1,200	12,000	230	644	785	--	9,700	17,000	.7	37	38	40,900
12	01-17-89	7,300	450	1,500	15,000	220	601	733	--	11,000	20,000	.5	44	43	48,600
13	01-18-89	6,900	460	1,400	14,000	230	464	566	--	9,600	22,000	.6	44	42	48,000
14	01-18-89	6,600	340	1,400	15,000	310	392	478	--	11,000	21,000	.6	42	26	49,300
15	03-08-89	470	130	34	220	10	352	429	--	400	160	.4	.15	31	1,200
16	04-18-89	2.0	.57	.06	240	5.9	488	422	85	30	13	2.7	.05	40	625
	04-18-89	2.0	.59	.08	240	6.0	488	422	85	28	13	2.7	--	41	624
	05-31-89	2.0	.66	.20	240	6.0	479	422	80	28	12	2.6	--	41	618
17	04-21-89	9.0	1.4	1.4	400	5.4	553	674	--	30	230	3.2	.35	40	1,040
18	07-13-88	1,600	140	300	4,500	79	852	1,040	--	3,500	5,200	.3	--	31	14,300
19	03-07-89	68	20	4.4	300	9.1	359	399	19	270	50	2.0	.21	36	907
20	07-12-88	370	100	29	510	8.0	311	379	--	720	300	.2	--	39	1,890
	07-12-88	--	--	--	--	--	328	400	--	--	--	--	--	--	--
21	04-20-89	1.0	.21	.01	120	2.5	229	230	24	31	6.5	1.0	.04	34	332
22	07-13-88	380	100	31	120	3.2	278	339	--	240	73	.2	--	54	788

Table 36. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Major Constituents—Continued														
		Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity (mg/L as $CaCO_3$)	Bicarbonate, (mg/L as HCO_3)	Carbonate, (mg/L as CO_3)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Bromide, (mg/L as Br)	Silica, dissolved (mg/L as SiO_2)	Solids, dissolved, sum of constituents (mg/L)
23	04-20-89	1.0	0.29	0.02	130	2.4	230	218	31	38	6.8	1.0	0.04	33	350
24	01-27-89	12	4.0	.53	70	9.1	117	143	--	42	9.3	.3	.02	41	247
	01-27-89	12	4.0	.55	69	9.1	117	143	--	44	9.4	.4	--	41	248
25	08-10-89	68	19	5.0	47	14	116	141	--	48	13	.3	.03	47	263
26	07-12-88	220	63	15	42	2.8	199	243	--	65	14	.5	--	40	362
27	04-20-89	1.0	.28	.03	110	1.6	189	169	30	37	7.5	.6	.03	33	303
28	03-08-89	1.0	.31	.12	150	2.2	257	256	28	51	8.1	1.4	.05	34	401
29	04-28-89	9.0	1.4	1.3	400	9.0	722	809	35	76	68	3.7	.09	33	1,030
	05-31-89	10	1.5	1.5	440	7.7	737	866	16	91	90	3.9	--	31	1,110
30	08-12-87	230	61	18	330	21	649	792	--	190	42	1.2	<.01	41	1,090
	06-13-89	190	50	16	340	12	633	772	--	180	52	1.1	.01	42	1,070
31	08-12-87	76	21	5.6	240	14	467	569	--	110	28	1.9	.02	42	742
	06-12-89	64	18	4.6	230	8.6	440	536	--	91	26	1.9	.02	42	686
32	08-12-87	200	54	15	130	--	304	371	--	85	17	.5	<.01	51	--
	06-12-89	230	63	17	180	18	426	519	--	110	32	.5	.04	47	723
33	08-12-87	300	90	17	45	8.3	265	323	--	49	19	.8	<.01	56	444
34	08-12-87	200	55	15	100	7.7	312	381	--	53	15	2.1	<.01	71	506
35	08-12-87	82	22	6.5	260	7.5	413	504	--	120	34	2.1	<.01	47	747
	06-13-89	65	18	4.9	230	6.1	406	495	--	100	28	2.0	.02	47	679
36	08-12-87	71	19	5.6	200	10	380	464	--	90	28	1.1	.02	43	625
37	06-13-89	110	30	8.9	210	9.4	410	500	--	110	34	.8	.03	45	694
	08-11-87	180	57	8.4	54	8.0	219	267	--	37	11	1.1	<.01	52	360
38	06-13-89	270	86	12	57	6.7	278	339	--	63	24	.8	.03	51	467
	08-11-87	210	61	13	120	8.6	329	401	--	88	27	.8	.03	46	562
	06-13-89	220	64	14	120	8.7	291	355	--	95	39	.8	.03	44	560
39	08-11-87	110	32	7.6	110	11	226	276	--	89	25	.8	.05	41	452
	06-13-89	150	43	9.5	120	9.3	271	330	--	88	31	.8	.05	42	506
40	09-25-87	140	41	8.6	190	--	364	444	--	--	--	--	--	39	--
41	08-11-87	220	68	12	58	6.4	242	295	--	51	14	.7	<.01	45	400
42	08-11-87	160	47	11	220	5.4	523	638	--	79	24	.8	.01	48	749

Table 36. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Major Constituents—Continued													
		Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity (mg/L as $CaCO_3$)	Bicarbonate, (mg/L as HCO_3)	Carbonate, (mg/L as CO_3)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Bromide, (mg/L as Br)	Silica, dissolved (mg/L as SiO_2)	Solids, dissolved, sum of constituents (mg/L)
43	08-11-87	66	19	4.4	72	11	169	206	--	46	13	0.6	0.02	45	312
44	06-21-88	320	88	25	77	8.6	355	433	--	68	14	.6	--	55	549
	06-21-88	--	--	--	--	--	333	406	--	--	--	--	--	--	--
45	01-26-89	6.0	1.3	.55	210	7.7	247	238	31	90	110	.6	.19	26	594
46	08-03-88	130	36	9.3	29	4.0	103	126	--	53	22	.2	--	26	241
	08-03-88	--	--	--	--	--	105	128	--	--	--	--	--	--	--
47	06-22-88	310	110	7.8	9,800	99	488	595	--	5,100	11,000	1.2	--	47	26,500
	06-22-88	--	--	--	--	--	485	591	--	--	--	--	--	--	--
48	06-21-88	100	29	7.4	31	3.6	99	121	--	39	18	.3	--	17	205
	06-21-88	100	29	7.4	31	3.3	99	121	--	39	19	.4	--	17	206
49	08-30-89	300	84	22	66	6.1	267	325	--	130	35	.3	.03	34	537
50	01-25-89	6.0	1.6	.57	190	7.3	223	222	25	75	83	.6	.14	31	523
51	06-22-88	180	56	10	90	8.3	244	298	--	92	30	1.1	--	41	475
	06-22-88	--	--	--	--	--	330	402	--	--	--	--	--	--	--
52	02-22-89	0	.11	.05	85	1.7	124	121	15	45	9.0	.5	.02	35	251
53	01-25-89	6.0	1.6	.52	190	7.3	225	216	29	76	83	.6	.15	30	524
54	03-07-89	3.0	.76	.19	61	5.2	91	111	--	45	6.4	.3	<.01	38	211
55	06-21-88	7,900	340	1,700	12,000	250	888	1,080	--	7,000	19,000	.7	--	37	40,900
56	02-23-89	250	71	18	120	6.0	302	368	--	160	35	.4	.04	29	620
57	08-30-89	16	1.9	2.7	820	14	1,050	1,240	22	240	400	4.4	.78	36	2,150
58	03-01-89	8.0	1.7	.79	220	7.6	252	230	38	89	100	.8	.18	28	599
59	04-19-89	270	81	15	80	10	283	345	--	100	31	.4	.04	38	525
60	04-19-89	280	80	19	320	9.0	467	569	--	310	160	.7	.14	34	1,210
61	03-09-89	170	51	9.8	30	5.7	162	198	--	41	16	.3	.05	29	280
62	09-01-88	180	53	12	93	4.2	271	330	--	68	25	.7	--	32	450
63	04-18-89	110	29	8.9	43	17	122	149	--	81	14	.3	.03	45	311
64	08-30-89	180	51	12	120	7.9	270	329	--	99	54	.9	.05	36	543
65	02-28-89	61	17	4.5	95	4.2	185	226	--	58	12	.9	.04	32	335
66	04-26-89	97	26	7.8	26	5.2	91	111	--	52	9.5	.2	.02	36	217
67	08-03-88	57	16	4.0	370	9.8	435	530	--	290	120	.8	--	40	1,110

Table 36. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Major Constituents—Continued													
		Hardness (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Potassium, dissolved (mg/L as K)	Alkalinity (mg/L as $CaCO_3$)	Bicarbonate, (mg/L as HCO_3)	Carbonate, (mg/L as CO_3)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Bromide, (mg/L as Br)	Silica, dissolved (mg/L as SiO_2)	Solids, dissolved, sum of constituents (mg/L)
	08-03-88	--	--	--	--	--	426	519	--	--	--	--	--	--	--
68	08-10-89	17	5.3	0.92	200	8.2	351	359	34	65	14	4.1	<0.01	39	547
69	04-26-89	430	120	32	310	7.3	601	733	--	300	94	.6	.03	37	1,260
70	02-28-89	270	69	23	100	11	119	145	--	310	25	.6	<.01	44	654
71	03-02-89	5.0	1.4	.39	210	6.3	239	212	39	81	98	.8	.16	28	569
72	06-20-88	190	67	5.9	110	10	312	381	--	65	19	.7	--	42	507
	06-20-88	--	--	--	--	--	319	389	--	--	--	--	--	--	--
73	04-25-89	1.0	.22	.04	150	2.9	218	201	32	66	17	1.2	.05	37	405
74	08-02-88	430	110	37	230	15	650	793	--	--	--	--	--	14	--
	05-03-89	1,500	380	140	760	22	655	799	--	1,100	1,000	.8	--	40	3,840
75	03-06-89	1.0	.16	.04	100	2.1	154	157	15	51	11	.6	.04	36	293
76	03-01-89	1.0	.22	<.01	110	2.3	156	143	23	56	11	.6	.03	48	321
77	04-25-89	5.0	1.5	.18	150	3.7	242	232	31	46	29	.7	.04	36	412
78	03-09-89	4.0	1.1	.31	250	7.6	342	309	53	59	120	1.4	.19	26	670
79	08-02-88	1,800	360	220	3,500	26	1,400	1,710	--	5,200	2,400	1.6	--	53	12,600

Table 36. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Nutrients and carbon compounds							
		Nitrogen, nitrate, dissolved (mg/L as N)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, un-ionized, dissolved (mg/L as N)	Nitrogen, organic, dissolved (mg/L as N)	Orthophos-phorus, dissolved (mg/L as P)	Phosphorus, dissolved (mg/L as P)	Carbon, organic, dissolved (mg/L as C)
1	01-20-89	0.56	0.01	0.26	<0.01	1.34	0.49	--	16
2	01-20-89	<.10	<.01	.26	<.01	1.14	.41	--	14
3	02-03-89	.28	<.01	6.0	.03	1.4	4.1	--	25
4	02-03-89	.34	<.01	.45	<.01	1.85	1.9	--	21
5	01-18-89	<.10	<.01	.37	<.01	1.53	.83	--	20
6	01-19-89	.38	.02	1.6	<.01	4.3	1.5	--	21
7	01-19-89	.57	.01	.18	<.01	1.72	1.0	--	19
8	01-19-89	<.10	<.01	.19	<.01	1.51	.66	--	19
9	02-02-89	.17	<.01	.98	<.01	1.22	.66	--	21
10	02-02-89	<.10	<.01	1.5	<.01	1.5	.39	--	20
11	02-02-89	<.10	<.01	.49	<.01	1.11	.34	--	21
12	01-17-89	.47	.04	1.2	<.01	1.7	.48	--	20
13	01-18-89	<.10	.02	.85	<.01	.95	.35	--	21
14	01-18-89	<.10	.01	.66	<.01	.94	.25	--	17
15	03-08-89	.64	<.01	.04	<.01	.36	.33	--	5.6
16	04-18-89	<.10	.04	2.1	1.0	.40	.82	--	2.6
	04-18-89	<.10	.03	2.2	1.1	.80	.82	--	2.6
17	04-21-89	<.10	<.01	1.6	.16	.20	1.9	--	3.4
18	07-13-88	<.10	<.01	.69	<.01	1.41	.51	--	12
19	03-07-89	1.53	.07	<.01	<.01	.40	.54	--	2.7
20	07-12-88	8.29	.11	.04	<.01	1.36	.21	--	5.3
21	04-20-89	<.10	.01	.63	.20	<.20	1.1	--	1.5
22	07-13-88	.34	<.01	.02	<.01	.38	.22	--	5.0
23	04-20-89	<.10	<.01	.07	.03	.33	1.2	--	1.4
24	01-27-89	<.10	<.01	.28	.02	<.20	.16	--	.6
	01-27-89	<.10	.01	.31	.02	<.20	.17	--	.5
25	08-10-89	<.10	<.01	.12	<.01	1.18	.08	--	.4
26	07-12-88	4.0	.02	.02	<.01	.38	.18	--	2.6
27	04-20-89	<.10	<.01	.04	.02	.26	1.0	--	1.1
28	03-08-89	<.10	<.01	.62	.18	<.20	2.2	--	1.3

Table 36. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Nutrients and carbon compounds—Continued							
		Nitrogen, nitrate, dissolved (mg/L as N)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, un-ionized, dissolved (mg/L as N)	Nitrogen, organic, dissolved (mg/L as N)	Orthophos-phorus, dissolved (mg/L as P)	Phosphorus, dissolved (mg/L as P)	Carbon, organic, dissolved (mg/L as C)
29	04-28-89	0.14	<0.01	0.98	0.15	1.62	2.6	--	2.7
30	08-12-87	16.90	2.1	.15	<.01	2.65	.11	0.14	7.1
	06-13-89	5.18	.22	.01	--	1.19	.32	--	6.7
31	08-12-87	.19	.01	<.01	<.01	.70	.18	.15	2.8
	06-12-89	.12	.01	.04	--	.36	.20	--	2.2
32	08-12-87	23	.02	.08	<.01	2.22	.23	.28	5.2
	06-12-89	5.4	<.01	<.01	--	.80	.30	--	4.4
33	08-12-87	16	<.01	.05	<.01	2.15	.16	.21	5.1
34	08-12-87	10	<.01	.07	<.01	1.53	.11	.13	4.9
35	08-12-87	19	.09	.07	<.01	3.03	.19	.22	--
	06-13-89	5.34	.06	.01	--	1.09	.31	--	4.9
36	08-12-87	2.67	.03	.01	<.01	.89	.16	.15	3.1
	06-13-89	2.34	.06	.03	--	.77	.10	--	2.8
37	08-11-87	5.7	<.01	<.02	<.01	1.2	.54	.61	4.6
	06-13-89	7.6	<.01	.04	--	.76	.44	--	3.1
38	08-11-87	3.7	<.01	<.01	<.01	.70	.07	.07	2.4
	06-13-89	4.4	.01	<.01	--	.70	.05	--	2.8
39	08-11-87	.63	<.01	<.01	<.01	.70	.03	.02	2.4
	06-13-89	.59	<.01	<.01	--	.60	.04	--	2.0
40	09-25-87	21.24	.76	.35	--	1.75	.12	.13	6.8
41	08-11-87	<10	<.01	.02	<.01	2.08	.29	.34	4.2
42	08-11-87	20	<.20	.02	<.01	3.08	.21	.26	6.9
43	08-11-87	<.10	<.01	<.33	<.01	.70	.12	.13	1.1
44	06-21-88	18	.09	.01	<.01	1.59	.04	--	6.8
45	01-26-89	.52	.01	<.01	<.01	<.20	.21	--	.7
46	08-03-88	.45	.02	<.01	<.01	<.20	.09	--	1.6
47	06-22-88	--	--	--	--	--	--	--	13
	05-03-89	<.10	.01	.06	--	.74	.35	--	--
48	06-21-88	.49	<.01	<.01	<.01	<.20	.13	--	1.5
	06-21-88	.49	<.01	<.01	<.01	.30	.13	--	2.1

Table 36. Field measurements, major constituents, nutrients, and carbon compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Nutrients and carbon compounds—Continued							
		Nitrogen, nitrate, dissolved (mg/L as N)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia, un-ionized, dissolved (mg/L as N)	Nitrogen, organic, dissolved (mg/L as N)	Orthophos-phorus, dissolved (mg/L as P)	Phosphorus, dissolved (mg/L as P)	Carbon, organic, dissolved (mg/L as C)
49	08-30-89	0.12	0.02	0.02	<0.01	0.28	0.05	--	2.4
50	01-25-89	.40	<.01	<.01	<.01	<.20	.21	--	.6
51	06-22-88	<.10	<.01	.04	<.01	.26	.13	--	2.5
52	02-22-89	<.10	<.01	.13	.04	<.20	1.0	--	.6
53	01-25-89	.40	.01	.01	<.01	<.20	.21	--	.7
54	03-07-89	<.10	<.01	.12	<.01	<.20	.28	--	.7
55	06-21-88	--	--	--	--	--	--	--	16
	05-03-89	.42	.14	.16	--	1.34	.46	--	--
56	02-23-89	2.4	.01	.02	<.01	<.20	.08	--	1.5
57	08-30-89	<.10	<.01	1.7	.15	.40	2.4	--	4.2
58	03-01-89	.28	<.01	<.01	<.01	<.20	.28	--	.3
59	04-19-89	7.52	.08	.03	<.01	<.20	.74	--	5.4
60	04-19-89	4.2	.03	.03	<.01	.97	.31	--	7.2
61	03-09-89	2.5	<.01	.02	<.01	.38	.10	--	.9
62	09-01-88	1.9	.03	.01	<.01	.39	.15	--	1.6
63	04-18-89	<.10	<.01	.17	<.01	<.20	.06	--	.6
64	08-30-89	<.10	<.01	.05	<.01	.35	.67	--	3.2
65	02-28-89	<.10	<.01	.05	<.01	.25	.12	--	.9
66	04-26-89	.30	<.01	.04	<.01	<.20	.04	--	.5
67	08-03-88	1.3	.03	.02	<.01	.58	.25	--	5.5
68	08-10-89	.44	<.01	<.01	<.01	1.6	.78	--	1.7
69	04-26-89	12	.05	.05	<.01	2.85	.48	--	11
70	02-28-89	.40	<.01	.04	<.01	<.20	.07	--	.6
71	03-02-89	.10	<.01	.03	.01	<.20	.26	--	.3
72	06-20-88	9.2	<.01	<.01	<.01	.50	.31	--	4.5
73	04-25-89	<.10	<.01	.52	.16	.68	2.1	--	1.3
74	08-02-88	<.10	<.01	.16	<.01	.84	.42	--	12
75	03-06-89	<.10	.01	.37	.09	<.20	7.5	--	.8
76	03-01-89	<.10	<.01	.34	.12	<.20	6.4	--	5.9
77	04-25-89	<.10	<.01	.17	.06	.23	.44	--	1.0
78	03-09-89	<.10	<.01	.23	.10	<.20	.50	--	1.7
79	08-02-88	<.10	.01	.69	--	1.81	1.2	--	29

Table 37. Minor Constituents in ground-water samples from Carson Desert

[Additional dissolved arsenic analyses shown in parentheses; arsenate, and arsenite values are for analyses by Battelle Marine Research Laboratory, Sequim, Washington. Additional dissolved iron analyses shown in parentheses; ferrous, and ferric iron values are for analyses by the U.S. Geological Survey in Carson City, Nevada. Abbreviations and symbols: µg/L, micrograms per liter; --, not determined; <, less than]

Site (fig. 5	Date	Aluminum dissolved (µg/L as Al)	Antimony, dissolved (µg/L as Sb)	Arsenic, dissolved (µg/L as As)	Arsenite arsenic, dissolved (µg/L as As)	Arsenate arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)
1	01-20-89	--	13	290 (280)	<6	--	<50	<25	51,000	<50
2	01-20-89	--	4	330 (360)	10	350	<25	<13	49,000	<25
3	02-03-89	--	4	290 (320)	36	290	27	<13	54,000	<25
4	02-03-89	--	6	530 (520)	<12	--	<25	<13	56,000	<25
5	01-18-89	--	6	540 (500)	35	470	<25	<13	56,000	<25
6	01-19-89	--	3	260 (290)	18	280	<25	<13	51,000	<25
7	01-19-89	--	6	430 (390)	9.3	380	<25	<13	52,000	<25
8	01-19-89	--	6	540 (530)	32	500	<25	<13	52,000	<25
9	02-02-89	--	2	110 (170)	15	160	26	<13	53,000	<25
10	02-02-89	--	12	490 (390)	<6.2	--	<25	<13	53,000	<25
11	02-02-89	--	12	270 (410)	13	400	<25	<13	53,000	<25
12	01-17-89	--	8	310 (220)	<6.2	--	<50	<25	57,000	<50
13	01-18-89	--	4	390 (340)	<6.2	--	<50	<25	54,000	<50
14	01-18-89	--	5	250 (370)	16	360	<50	<25	58,000	<50
15	03-08-89	--	3	55	--	--	91	<.5	1,300	<1
16	04-18-89	--	<1	<1	--	--	8	<.5	1,800	<1
	04-18-89	--	<1	3	--	--	8	<.5	1,800	<1
17	05-31-89	--	<1	4	--	--	7	<.5	1,800	<1
	04-21-89	--	3	<1	--	--	37	<.5	3,900	<1
18	07-13-88	--	<1	17 (59)	<1	--	57	<5	20,000	<10
19	03-07-89	--	5	280 (250)	11	240	32	<.5	2,300	<1
20	07-12-88	--	2	47 (38)	<1	--	46	<1.5	1,100	<3
21	04-20-89	--	4	170	--	--	7	<.5	560	<1
22	07-13-88	--	3	28 (30)	<.8	--	130	<.5	870	<1
23	04-20-89	--	3	1	--	--	14	<.5	540	<1
24	01-27-89	--	2	55	--	--	20	<.5	290	<1
	01-27-89	--	3	52	--	--	19	<.5	300	<1
25	08-10-89	--	2	23	--	--	59	<.5	260	<1
26	07-12-88	--	<1	8	--	--	82	<.5	410	<1
27	04-20-89	--	5	11	--	--	7	<.5	400	<1
28	03-08-89	--	14	490 (500)	<10	--	9	<.5	920	<1
29	04-28-89	--	7	360	--	--	8	<.5	6,800	<1
	05-31-89	--	11	740	--	--	9	<.5	7,300	<1
30	08-12-87	<10	--	240 (250)	5	240	42	<.5	2,000	<1
	06-13-89	--	9	390	--	--	38	<.5	1,800	<1
31	08-12-87	<10	--	300 (310)	12	290	21	<.5	110	<1
	06-12-89	--	3	300	--	--	19	<.5	880	<1
32	08-12-87	<10	--	-- (120)	2	120	52	<.5	1,100	<1
	06-12-89	--	3	130	--	--	78	<.5	1,000	<1
33	08-12-87	<10	--	18 (22)	.6	22	7	<.5	490	<1

Table 37. Minor constituents in ground-water samples from Carson Desert—Continued

Site (fig. 5	Date	Aluminum dissolved (µg/L as Al)	Antimony, dissolved (µg/L as Sb)	Arsenic, dissolved (µg/L as As)	Arsenite arsenic, dissolved (µg/L as As)	Arsenate arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)
34	08-12-87	<10	--	58 (74)	1.5	73	43	<0.5	920	<1
35	08-12-87	20	--	460	--	--	20	<.5	850	<1
	06-13-89	--	5	580	--	--	24	<.5	890	<1
36	08-12-87	<10	--	170 (190)	4	190	22	<.5	900	<1
	06-13-89	--	6	130	--	--	33	<.5	780	<1
37	08-11-87	<10	--	58 (72)	1.2	70	47	<.5	460	<1
	06-13-89	--	1	44	--	--	72	<.5	540	<1
38	08-11-87	<10	--	30 (32)	.8	31	31	<.5	750	<1
	06-13-89	--	1	30	--	--	42	<.5	760	<1
39	08-11-87	<10	--	78 (89)	1.8	87	17	<.5	620	<1
	06-13-89	--	1	75	--	--	29	<.5	630	<1
40	09-25-87	20	--	--	--	--	59	1.1	1,100	<1
41	08-11-87	<10	--	46 (40)	1	39	55	<.5	500	<1
42	08-11-87	<10	--	170 (190)	3.9	190	69	<.5	1,400	<1
43	08-11-87	<10	--	20 (21)	8.5	12	25	<.5	640	<1
44	06-21-88	--	1	62 (61)	<1	--	34	.9	710	<1
45	01-26-89	--	2	97 (100)	3.8	98	<2	<.5	1,200	<1
46	08-03-88	--	<1	5	--	--	63	<.5	240	1
47	06-22-88	--	6	1,100 (890)	31	860	<100	<50	38,000	<100
48	06-21-88	--	2	10 (7.6)	<.4	--	24	<.5	370	<1
	06-21-88	--	<1	9	--	--	23	<.5	380	<1
49	08-30-89	--	<1	4	--	--	49	<.5	550	<1
50	01-25-89	--	2	88 (120)	3.7	110	<2	<.5	990	<1
51	06-22-88	--	1	15 (24)	<.4	--	92	<.5	610	<1
52	02-22-89	--	<1	12 (120)	39	82	7	<.5	270	<1
53	01-25-89	--	2	51 (98)	<1.5	--	<2	<.5	990	<1
54	03-07-89	--	<1	37 (41)	25	17	5	<.5	190	<1
55	06-21-88	--	15	190 (220)	<1.9	--	23	<10	54,000	<20
56	02-23-89	--	<1	6 (6.7)	<.6	--	130	<.5	1,100	<1
57	08-30-89	--	13	1,400	--	--	27	<1	16,000	<2
58	03-01-89	--	1	120 (110)	<4	--	<2	<.5	1,100	<1
59	04-19-89	--	2	<1	--	--	100	<.5	790	<1
60	04-19-89	--	<1	<1	--	--	69	<.5	2,400	<1
61	03-09-89	--	1	7 (7.6)	<.4	--	15	<.5	270	<1
62	09-01-88	--	<1	5	--	--	85	<.5	590	<1
63	04-18-89	--	<1	<1	--	--	93	<.5	260	<1
64	08-30-89	--	9	140	--	--	71	<.5	1,300	<1
65	02-28-89	--	<1	12	--	--	55	<.5	450	<1
66	04-26-89	--	1	11	--	--	56	<.5	190	<1
67	08-03-88	--	2	67 (58)	<1	--	30	<.5	3,300	<1

Table 37. Minor constituents in ground-water samples from Carson Desert—Continued

Site (fig. 5	Date	Aluminum dissolved (µg/L as Al)	Antimony, dissolved (µg/L as Sb)	Arsenic, dissolved (µg/L as As)	Arsenite arsenic, dissolved (µg/L as As)	Arsenate arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)
	09-01-88	--	--	--	--	--	--	--	--	--
68	08-10-89	--	90	1,000	--	--	5	3.7	2,900	<1
69	04-26-89	--	2	17	--	--	110	<.5	2,200	<1
70	02-28-89	--	2	54 (72)	<2	--	40	<.5	850	<1
71	03-02-89	--	<1	100 (110)	6.2	100	<2	<.5	1,300	<1
72	06-20-88	--	3	110 (120)	<2	--	50	<.5	620	<1
73	04-25-89	--	10	310	--	--	9	<.5	800	<1
74	08-02-88	--	1	61 (59)	<1	--	31	<.5	2,800	<1
	09-01-88	--	--	--	--	--	--	--	--	--
	05-03-89	--	7	70	--	--	110	<1.5	3,300	7
75	03-06-89	--	7	37	--	--	6	<.5	370	<1
76	03-01-89	--	2	92 (66)	22	44	3	<.5	310	<1
77	04-25-89	--	3	35	--	--	3	<.5	2,100	<1
78	03-09-89	--	3	120 (140)	150	<1	<2	<.5	2,200	<1
79	08-02-88	--	35	<1 (59)	<1	--	36	<.5	45,000	2

Table 37. Minor constituents in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Ferrous iron, dissolved (µg/L as Fe)	Ferric iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)
1	01-20-89	<250	<150	<500	<150	--	--	<500	960	290
2	01-20-89	<130	<75	<250	160	--	--	<250	840	410
3	02-03-89	<130	<75	<250	79	--	--	<250	1,400	910
4	02-03-89	<130	<75	<250	<75	--	--	<250	1,300	200
5	01-18-89	<130	<75	<250	160	--	--	<250	1,100	360
6	01-19-89	<130	<75	<250	1,100 (130)	63	69	<250	1,200	520
7	01-19-89	<130	<75	<250	190 (33)	25	8	260	1,000	250
8	01-19-89	<130	<75	<250	140 (61)	61	<.1	<250	940	200
9	02-02-89	<130	<25	<250	120 (12)	42	<.1	<250	1,200	230
10	02-02-89	<130	<75	<250	230 (23)	19	4	<250	1,300	440
11	02-02-89	<130	<75	<250	<75	--	--	<250	1,200	250
12	01-17-89	<250	<150	<500	<150	--	--	<500	1,300	580
13	01-18-89	<250	<150	<500	<150	--	--	<500	630	460
14	01-18-89	<250	<150	<500	<150	--	--	<500	1,400	430
15	03-08-89	<5	<3	<10	11	--	--	<10	73	2
16	04-18-89	<5	<3	<10	91	--	--	<10	7	14
	04-18-89	<5	<3	<10	88	--	--	<10	7	14
	05-31-89	<5	<3	<10	94	--	--	20	7	15
17	04-21-89	<5	<3	<10	50	--	--	<10	10	23
18	07-13-88	<50	<30	<100	270	--	--	<100	86	1,700
19	03-07-89	<5	<3	<10	8	--	--	<10	35	130
20	07-12-88	<15	<9	<30	<9	--	--	<30	99	650
21	04-20-89	<5	<3	10	160	--	--	<10	<4	22
22	07-13-88	<5	<3	<10	4	--	--	<10	80	49
23	04-20-89	<5	<3	<10	200	--	--	<10	<4	39
24	01-27-89	<5	<3	<10	56	--	--	<10	11	53
	01-27-89	<5	<3	<10	55	--	--	<10	11	51
25	08-10-89	<5	<3	<10	89	--	--	<10	24	220
26	07-12-88	<5	<3	<10	7	--	--	<10	55	660
27	04-20-89	<5	<3	<10	150	--	--	<10	<4	16
28	03-08-89	5	<3	30	330	--	--	<10	<4	38
29	04-28-89	<5	<3	<10	480	--	--	<10	17	24
	05-31-89	<5	<3	<10	240	--	--	<10	18	26
30	08-12-87	<1	<3	<10	5	--	--	<10	86	410
	06-13-89	<5	<3	<10	5	--	--	<10	73	160
31	08-12-87	<1	<3	<10	6	--	--	<10	51	70
	06-12-89	<5	<3	<10	11	--	--	<10	48	24
32	08-12-87	<1	<3	10	<3	--	--	<10	99	7
	06-12-89	<5	<3	<10	9	--	--	<10	100	16
33	08-12-87	<1	<3	20	<3	--	--	<10	71	2

Table 37. Minor constituents in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Ferrous iron, dissolved (µg/L as Fe)	Ferric iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)
34	08-12-87	<2	<3	10	4	--	--	<10	130	<1
35	08-12-87	<2	<3	10	16	--	--	<10	54	40
	06-13-89	<5	<3	<10	4	--	--	<10	48	1
36	08-12-87	<2	<3	<10	4	--	--	<10	56	41
	06-13-89	<5	<3	<10	6	--	--	<10	71	3
37	08-11-87	<3	<3	<10	<3	--	--	<10	60	3
	06-13-89	<5	<3	<10	29	--	--	<10	74	7
38	08-11-87	<1	<3	<10	<3	--	--	<10	52	90
	06-13-89	<5	<3	<10	3	--	--	<10	56	5
39	08-11-87	<2	<3	10	<3	--	--	<10	50	22
	06-13-89	<5	<3	<10	<3	--	--	<10	55	<1
40	09-25-87	<5	<3	20	37	--	--	<10	60	660
41	08-11-87	<1	<3	10	4	--	--	<10	52	<1
42	08-11-87	<2	<3	10	<3	--	--	<10	68	160
43	08-11-87	<3	<3	<10	3	--	--	<10	47	65
44	06-21-88	<5	<3	10	6	--	--	<10	140	1,200
45	01-26-89	<5	<3	<10	15	--	--	10	15	<1
46	08-03-88	<5	<3	<10	4	--	--	<10	35	52
47	06-22-88	<500	<300	<1,000	400	--	--	<1,000	260	20
48	06-21-88	<5	<3	<10	4 (10)	10	<0.1	<10	33	3
	06-21-88	<5	<3	<10	4	--	--	<10	34	4
49	08-30-89	<5	<3	<10	42	--	--	<10	42	380
50	01-25-89	<5	<3	<10	5	--	--	20	17	<1
51	06-22-88	<5	<3	<10	6 (2.3)	2.3	<.1	<10	80	820
52	02-22-89	<5	<3	10	130	--	--	<10	<4	25
53	01-25-89	<5	<3	<10	21	--	--	<10	16	<1
54	03-07-89	<5	<3	<10	82	--	--	<10	13	59
55	06-21-88	<100	<60	60	67	216	--	<200	2,500	500
56	02-23-89	<5	<3	<10	<3	--	--	<10	47	300
57	08-30-89	<10	<6	<20	79	--	--	<20	23	34
58	03-01-89	<5	<3	<10	22	--	--	<10	12	1
59	04-19-89	<5	<3	<10	7	--	--	<10	76	710
60	04-19-89	<5	<3	<10	7	--	--	<10	82	650
61	03-09-89	<5	<3	<10	5	--	--	<10	36	33
62	09-01-88	<5	<3	<10	<3	--	--	<10	34	72
63	04-18-89	<5	<3	<10	20	--	--	<10	33	460
64	08-30-89	<5	<3	<10	41	--	--	<10	80	350
65	02-28-89	<5	<3	<10	200	--	--	<10	13	210
66	04-26-89	<5	<3	<10	6	--	--	<10	13	120
67	08-03-88	<5	<3	<10	70	57.30	--	<10	57	14

Table 37. Minor constituents in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Ferrous iron, dissolved (µg/L as Fe)	Ferric iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Manganese, dissolved (µg/L as Mn)
	09-01-88	--	--	--	--	--	--	--	--	--
68	08-10-89	<5	<3	<10	12	--	--	<10	13	2
69	04-26-89	<5	<3	20	7	--	--	<10	110	1,600
70	02-28-89	<5	<3	<10	63	--	--	<10	42	200
71	03-02-89	<5	<3	<10	11	--	--	<10	15	2
72	06-20-88	<5	<3	<10	7	--	--	<10	77	3
73	04-25-89	<5	<3	20	480	--	--	<10	<4	22
74	08-02-88	<5	9	<10	4	--	--	<10	140	660
	09-01-88	--	--	--	--	--	--	--	--	--
	05-03-89	<15	<9	<30	14	--	--	40	420	1,700
75	03-06-89	<5	<3	<10	240	--	--	<10	<4	17
76	03-01-89	<5	<3	<10	150	--	--	<10	5	9
77	04-25-89	<5	<3	<10	35	--	--	<10	6	10
78	03-09-89	<5	<3	<10	20	--	--	<10	16	3
79	08-02-88	<5	<3	10	89 (100)	92	8	<10	350	5,400

Table 37. Minor constituents in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date sampled	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Selenium, dissolved (µg/L as Se)	Silver, dissolved (µg/L as Ag)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
1	01-20-89	<0.1	1,900	<500	1	<50	10,000	<300	<150
2	01-20-89	<.1	1,900	<250	3	<25	8,800	<150	100
3	02-03-89	<.1	1,000	<250	31	<25	8,600	<150	<75
4	02-03-89	<.1	1,600	<250	12	<25	11,000	180	<75
5	01-18-89	<.1	2,000	<250	5	<25	11,000	<150	150
6	01-19-89	<.1	1,000	<250	22	<25	8,700	<150	<75
7	01-19-89	<.1	1,600	<250	12	<25	8,900	150	150
8	01-19-89	<.1	1,400	<250	3	<25	8,600	<150	<75
9	02-02-89	<.1	1,600	<250	45	<25	11,000	<150	110
10	02-02-89	<.1	1,400	<250	5	<25	13,000	170	130
11	02-02-89	<.1	1,600	<250	3	<25	12,000	<150	170
12	01-17-89	<.1	1,400	<500	<1	<50	17,000	<300	220
13	01-18-89	<.1	1,400	<500	<1	<50	16,000	<300	<150
14	01-18-89	<.1	1,700	<500	<1	<50	15,000	<300	330
15	03-08-89	<.1	30	<10	<1	<1	1,200	16	75
16	04-18-89	<.1	10	<10	<1	<1	13	<6	3
	04-18-89	--	<10	<10	<1	<1	13	<6	5
	05-31-89	--	<10	<10	<1	<1	16	<6	<3
17	04-21-89	.2	20	<10	<1	<1	49	<6	10
18	07-13-88	.1	990	<10	<1	<10	3,900	<60	45
19	03-07-89	<.1	60	<10	4	<1	190	180	4
20	07-12-88	<.1	<30	<30	8	<3	1,200	19	<9
21	04-20-89	<.1	<10	<10	<1	<1	7	10	<3
22	07-13-88	<.1	<10	<10	2	<1	1,000	34	9
23	04-20-89	.1	<10	<10	<1	<1	9	33	5
24	01-27-89	<.1	20	<10	<1	<1	53	<6	<3
	01-27-89	--	<10	<10	<1	<1	56	<6	<3
25	08-10-89	.2	20	<10	<1	<1	250	<6	<3
26	07-12-88	<.1	10	<10	<1	<1	610	11	3
27	04-20-89	<.1	<10	<10	<1	<1	10	<6	9
28	03-08-89	.1	10	20	<1	1	12	81	7
29	04-28-89	<.1	40	<10	<1	<1	46	10	40
	05-31-89	--	40	<10	<1	<1	44	13	11
30	08-12-87	<.1	30	<10	2	<1	720	40	7
	06-13-89	--	30	<10	3	<1	650	62	6
31	08-12-87	<.1	10	<10	<1	<1	230	22	12
	06-12-89	--	10	<10	<1	<1	210	25	<3
32	08-12-87	<.1	10	<10	--	<1	740	100	4
	06-12-89	--	10	<10	3	<1	940	120	9
33	08-12-87	<.1	10	<10	<1	<1	690	35	<3

Table 37. Minor constituents in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date sampled	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Selenium, dissolved (µg/L as Se)	Silver, dissolved (µg/L as Ag)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
34	08-12-87	<0.1	10	<10	2	<1	600	98	6
35	08-12-87	<.1	20	<10	<1	<1	280	77	<3
	06-13-89	--	20	<10	<1	<1	260	78	4
36	08-12-87	<.1	<10	<10	2	<1	210	46	<3
	06-13-89	--	<10	<10	1	<1	340	31	<3
37	08-11-87	<.1	10	<10	<1	<1	480	61	<3
	06-13-89	--	<10	<10	1	<1	710	45	5
38	08-11-87	<.1	30	<10	3	<1	530	15	<3
	06-13-89	--	30	<10	1	1	610	15	7
39	08-11-87	<.1	30	<10	2	<1	260	17	<3
	06-13-89	--	20	<10	1	2	380	16	<3
40	09-25-87	<.1	20	<10	--	<1	390	<6	11
41	08-11-87	<.1	<10	<10	<1	2	570	26	<3
42	08-11-87	<.1	30	<10	2	<1	440	53	5
43	08-11-87	<.1	20	<10	<1	<1	180	<6	<3
44	06-21-88	<.1	<10	<10	<1	<1	890	49	8
45	01-26-89	<.1	20	<10	<1	1	32	34	<3
46	08-03-88	<.1	<10	10	<1	<1	370	<6	5
47	06-22-88	<.1	<1,000	<1,000	13	<100	4,300	<600	1,700
48	06-21-88	<.1	<10	<10	<1	1	310	<6	6
49	06-21-88	<.1	<10	<10	<1	2	300	<6	10
50	08-30-89	.1	<10	<10	<1	<1	870	<6	30
51	01-25-89	<.1	30	<10	<1	1	41	34	5
52	06-22-88	<.1	10	<10	<1	1	520	12	6
	02-22-89	<.1	10	<10	<1	4	4	<6	5
53	01-25-89	<.1	20	<10	<1	1	37	34	5
54	03-07-89	<.1	<10	<10	<1	<1	21	<6	<3
55	06-21-88	.5	1,400	100	25	9	22,000	89	220
56	02-23-89	<.1	10	<10	<1	1	760	<6	7
57	08-30-89	.2	100	<20	<1	3	120	75	13
58	03-01-89	<.1	20	<10	<1	<1	49	39	6
59	04-19-89	<.1	20	<10	<1	<1	830	39	7
60	04-19-89	<.1	60	<10	3	<1	790	7	10
61	03-09-89	<.1	<10	<10	<1	<1	360	<6	8
62	09-01-88	<.1	40	<10	<1	<1	590	<6	7
63	04-18-89	<.1	<10	<10	<1	<1	360	<6	9
64	08-30-89	<.1	30	<10	<1	<1	460	26	7
65	02-28-89	<.1	30	<10	<1	2	210	<6	3
66	04-26-89	<.1	<10	<10	<1	<1	290	<6	10
67	08-03-88	--	80	<10	<1	<1	200	36	<3

Table 37. Minor constituents in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date sampled	Mercury, dissolved (µg/L as Hg)	Molybdenum, dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Selenium, dissolved (µg/L as Se)	Silver, dissolved (µg/L as Ag)	Strontium, dissolved (µg/L as Sr)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
	09-01-88	<0.1	--	--	--	--	--	--	--
68	08-10-89	<.1	30	10	<1	<1	46	920	3
69	04-26-89	<.1	40	<10	<1	1	1,100	13	14
70	02-28-89	<.1	310	<10	<1	<1	740	28	20
71	03-02-89	<.1	20	<10	<1	<1	29	32	<3
72	06-20-88	<.1	<10	<10	1	2	450	55	4
73	04-25-89	.2	20	<10	<1	<1	7	130	6
74	08-02-88	--	30	<10	<1	<1	1,100	8	56
	09-01-88	<.1	--	--	--	--	--	--	--
	05-03-89	--	110	40	<1	3	3,800	39	16
75	03-06-89	<.1	<10	<10	<1	<1	26	10	8
76	03-01-89	<.1	10	<10	<1	<1	6	18	6
77	04-25-89	.1	10	<10	<1	1	22	16	<3
78	03-09-89	<.1	20	<10	<1	<1	29	<6	6
79	08-02-88	.2	970	30	<1	5	5,700	<6	32

Table 38. Radionuclides in ground-water samples from Carson Desert

[Uranium (natural) and uranium extraction in pCi/L are calculated from the corresponding uranium values in µg/L by assuming that the activity ratio of U-234 to U-238 is 1. Abbreviations and symbols: µg/L, micrograms per liter; pCi/L, picocuries per liter; --, not determined; <, less than; Cs-137, cesium-137; Sr-90/Y-90, strontium-90/yttrium-90]

Site (fig. 4)	Date	Radon-222, total (pCi/L)	Radium-226, dissolved, radon method (pCi/L)	Radium-228, dissolved (pCi/L as Ra-228)	Uranium (natural), dissolved (µg/L as U)	Uranium (natural), dissolved (pCi/L)	Gross alpha, dissolved (µg/L as U, natural)	Gross alpha, dissolved (pCi/L)	Gross beta, dissolved (pCi/L as Cs-137)	Gross beta, dissolved (pCi/L as Sr-90/Y-90)
1	01-20-89	1,100	--	--	580	393	820	556	690	470
2	01-20-89	1,100	--	--	490	332	470	319	560	370
3	02-03-89	1,100	--	--	390	264	510	346	930	610
4	02-03-89	840	--	--	510	346	360	244	940	630
	02-03-89	--	--	--	--	--	690	468	1,200	790
5	01-18-89	1,400	--	--	390	264	790	536	1,100	670
6	01-19-89	1,100	--	--	310	210	400	271	930	580
7	01-19-89	1,200	--	--	480	325	490	332	880	580
8	01-19-89	1,100	--	--	630	427	820	556	750	510
9	02-02-89	1,300	--	--	520	353	500	339	900	590
10	02-02-89	1,000	--	--	530	359	670	454	970	640
11	02-02-89	1,300	--	--	660	447	590	400	1,100	720
12	01-17-89	1,300	--	--	220	149	430	292	810	530
13	01-18-89	1,100	--	--	390	264	330	224	700	460
14	01-18-89	1,100	--	--	320	217	270	183	910	580
15	03-08-89	700	--	--	52	35	68	46	62	39
16	04-18-89	320	0.04	<1.0	--	--	2.7	1.8	10	6.9
	04-18-89	--	.02	<1.0	--	--	2.6	1.8	12	7.9
17	04-21-89	340	<.02	<1.0	--	--	28	19	13	8.1
18	07-13-88	180	--	--	660	447	600	407	610	420
19	05-04-89	--	.23	1.2	--	--	350	237	550	350
20	03-07-89	540	--	--	45	31	41	28	49	31
21	07-12-88	580	--	--	48	33	54	37	48	31
22	04-20-89	280	.04	<1.0	--	--	76	52	18	14
	07-13-88	250	--	--	33	22	30	20	45	29
23	05-04-89	--	.18	1.6	--	--	31	21	31	25
24	04-20-89	270	.04	<1.0	--	--	15	10	6.5	4.8
25	01-27-89	560	--	--	<.4	<.3	.7	.5	11	8.0
26	08-10-89	480	.10	<1.0	2.2	1.5	1.4	1.0	18	16
	07-12-88	280	--	--	8.2	5.6	8.2	5.6	11	7.9
27	05-04-89	--	.16	1.9	--	--	3.0	2.0	5.8	4.6
28	04-20-89	<80	.03	<1.0	--	--	54	37	11	8.2
29	03-08-89	470	--	--	1.2	.8	34	23	12	9.2
30	04-28-89	470	.05	4.6	--	--	--	--	15	14
	06-13-89	--	--	--	76	52	62	42	71	65
31	06-12-89	--	--	--	44	30	40	27	40	34
32	08-12-87	--	--	--	14	9.5	--	--	--	--
	06-12-89	--	--	--	28	19	22	15	36	33
35	06-13-89	--	--	--	32	22	24	16	23	21
36	06-13-89	--	--	--	61	41	--	--	50	45
37	06-13-89	--	--	--	9.7	6.6	6.6	4.5	15	12
38	06-13-89	--	--	--	67	45	--	--	46	42
39	06-13-89	--	--	--	18	12	13	8.8	21	17
40	09-25-87	--	.12	--	--	--	--	--	--	--
44	06-21-88	460	--	--	34	23	23	16	11	9.9

Table 38. Radionuclides in ground-water samples from Carson Desert—Continued

Site (fig. 4)	Date	Radon-222, total (pCi/L)	Radium-226, dissolved, radon method (pCi/L)	Radium-228, dissolved (pCi/L as Ra-228)	Uranium (natural), dissolved (µg/L as U)	Uranium (natural), dissolved (pCi/L)	Gross alpha, dissolved (µg/L as U, natural)	Gross alpha, dissolved (pCi/L)	Gross beta, dissolved (pCi/L as Cs-137)	Gross beta, dissolved (pCi/L as Sr-90/Y-90)
45	01-26-89	120	--	--	1.7	1.2	2.9	2.0	12	8.6
46	08-03-88	840	--	--	1.6	1.1	1.4	1.0	5.5	4.0
	08-03-88	--	--	--	--	--	3.0	2.0	6.0	4.3
47	06-22-88	380	--	--	160	108	190	129	330	230
	06-22-88	360	--	--	--	--	180	122	360	250
	05-03-89	--	0.19	<1.0	--	--	84	57	260	230
48	06-21-88	560	--	--	2.3	1.6	2.6	1.8	5.4	4.0
	06-21-88	660	--	--	--	--	1.9	1.3	6.3	4.7
49	08-30-89	720	.18	<1.0	41	28	65	44	17	15
50	01-25-89	<80	--	--	2.2	1.5	2.3	1.6	12	8.2
51	06-22-88	650	--	--	17	12	21	14	22	16
52	02-22-89	550	--	--	<.4	<.3	11	7.5	3.2	2.3
	02-22-89	--	--	--	<.4	<.3	8.7	5.9	2.7	2.0
53	01-25-89	210	--	--	2.2	1.5	2.8	1.9	12	8.7
54	03-07-89	500	--	--	<.4	<.3	1.7	1.2	6.5	4.8
55	06-21-88	720	--	--	610	414	960	651	1,400	890
	05-03-89	--	.04	<1.0	--	--	220	149	1,200	920
56	02-23-89	890	--	--	43	29	49	33	39	27
57	08-30-89	410	.16	<1.0	45	31	44	30	64	56
58	03-01-89	110	--	--	2.5	1.7	3.5	2.4	13	8.8
59	04-19-89	440	.11	<1.0	--	--	16	11	27	19
60	04-19-89	660	.07	<1.0	--	--	55	37	58	39
61	03-09-89	690	--	--	5.8	3.9	16	11	11	8.6
62	09-01-88	700	--	--	31	21	30	20	27	21
63	04-18-89	470	.11	<1.0	--	--	1.2	.8	24	18
64	08-30-89	400	.09	<1.0	35	24	48	33	22	19
65	02-28-89	680	--	--	.5	.3	1.5	1.0	6.0	4.6
66	04-26-89	1,000	.09	2.8	--	--	2.1	1.4	6.7	5.4
67	08-03-88	450	--	--	40	27	--	--	--	--
	08-03-88	540	--	--	--	--	--	--	--	--
	09-01-88	--	--	--	--	--	36	24	48	32
68	08-10-89	680	.10	<1.0	--	--	--	--	48	42
69	04-26-89	500	.09	1.2	--	--	--	--	81	73
70	02-28-89	760	--	--	8.2	5.6	5.3	3.6	25	17
71	03-02-89	240	--	--	1.5	1.0	3.0	2.0	11	7.5
72	06-20-88	370	--	--	17	12	18	12	31	22
73	04-25-89	300	.11	1.1	--	--	5.8	3.9	5.0	4.3
74	08-02-88	670	--	--	210	142	--	--	--	--
	09-01-88	--	--	--	--	--	240	163	230	150
	05-03-89	--	.31	<1.0	--	--	110	75	240	220
75	03-06-89	520	--	--	<.4	<.3	5.7	3.9	5.5	4.1
76	03-01-89	360	--	--	.5	.3	17	12	6.9	5.2
77	04-25-89	440	.08	1.3	--	--	3.3	2.2	4.2	3.7
78	03-09-89	2,200	--	--	.7	.5	6.2	4.2	24	16
79	08-02-88	490	--	--	450	305	430	292	320	210

Table 39. Isotopes in ground-water samples from Carson Desert

[Stable isotopes evaluated are carbon-13 relative to carbon-12 ($^{13}C/^{12}C$), deuterium (hydrogen-2) relative to hydrogen-1 ($D/^{1}H$), oxygen-18 relative to oxygen-16 ($^{18}O/^{16}O$), and sulfur-34 relative to sulfur-32 ($^{34}S/^{32}S$). Each ratio was determined for a water sample, then related mathematically to the comparable ratio for the following international reference standards: Peedee belemnite for carbon, Vienna Standard Mean Ocean Water for hydrogen and oxygen, and Canyon Diablo troilite for sulfur isotopes. Computed results are expressed as "delta carbon-13," "delta deuterium," "delta oxygen-18," and "delta sulfur-34"; units of measure are parts per thousand (abbreviated "permil"). A negative delta value indicates that the water sample is isotopically lighter than the standard (for example, the water sample has a smaller proportion of deuterium relative to hydrogen-1 than the standard). Abbreviations and symbols: pCi/L, picocuries per liter; PMC, percent modern carbon; --, not determined; <, less than]

Site (fig. 5)	Date	Delta deuterium (permil)	Delta oxygen-18 (permil)	Delta carbon-13 (permil)	Carbon-14 (PMC)	Tritium (pCi/L)	Delta sulfur-34 (permil)
1	01-20-89	-86	-7.4	--	--	--	--
2	01-20-89	-86	-7.4	--	--	--	--
3	02-03-89	-82	-6.9	--	--	--	--
4	02-03-89	-85	-7.9	--	--	--	--
5	01-18-89	-85	-7.0	--	--	--	--
6	01-19-89	-82	-6.6	--	--	--	--
7	01-19-89	-82	-6.8	--	--	--	--
8	01-19-89	-83	-6.9	--	--	--	--
9	02-02-89	-85	-6.9	--	--	--	--
10	02-02-89	-83	-7.0	--	--	--	--
11	02-02-89	-85	-7.0	--	--	--	--
12	01-17-89	-85	-7.0	-6.5	--	--	--
13	01-18-89	-87	-7.2	-7.4	--	--	--
14	01-18-89	-86	-7.5	-4.9	--	--	--
15	03-08-89	-89	-9.9	-14.0	--	--	3.9
16	04-18-89	-116	-14.6	-6.3	18	--	33
17	04-21-89	-114	-14.4	-10.1	13	--	23
18	07-13-88	-95	-10.5	--	--	--	--
19	03-07-89	-94	-11.1	-11.6	--	--	5.1
20	07-12-88	-98	-11.0	--	--	--	--
21	04-20-89	-114	-14.7	-8.5	41	--	29
22	07-13-88	-93	-11.6	--	--	--	--
23	04-20-89	-115	-14.6	-8.8	40	--	21
24	01-27-89	-113	-14.8	-13.2	61	--	13
25	08-10-89	-114	-14.4	--	--	--	--
26	07-12-88	-95	-11.7	--	--	--	--
27	04-20-89	-113	-14.4	-10.7	62	--	23
28	03-08-89	-114	-14.8	-8.5	35	--	20
29	04-28-89	-114	-14.7	-8.3	--	0.50	--
30	08-12-87	-84	-11.0	--	--	--	--
	06-13-89	-96	-11.5	-14.9	--	--	3.5
31	08-12-87	-92	-11.7	--	--	--	--
	06-12-89	-96	-11.5	-15.0	--	--	6.8
32	08-12-87	-84	-10.2	--	--	--	--
	06-12-89	-88	-10.4	-15.0	--	--	6.6
33	08-12-87	-84	-10.2	--	--	--	--
34	08-12-87	-84	-10.6	--	--	--	--
35	08-12-87	-90	-11.3	--	--	--	--
	06-13-89	--	--	-15.0	--	--	--
36	08-12-87	-89	-11.3	--	--	--	--

Table 39. Isotopes in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Delta deuterium (permil)	Delta oxygen-18 (permil)	Delta carbon-13 (permil)	Carbon-14 (PMC)	Tritium (pCi/L)	Delta sulfur-34 (permil)
	06-13-89	-89	-11.1	-14.1	--	--	6.1
37	08-11-87	-82	-10.2	--	--	--	--
	06-13-89	-93	-10.6	-15.2	--	--	6.5
38	08-11-87	-91	-12.0	--	--	--	--
	06-13-89	--	--	-13.7	--	--	6.8
39	08-11-87	-92	-11.9	--	--	--	--
	06-13-89	-95	-11.5	-12.8	--	--	6.4
40	09-25-87	--	--	--	--	49	--
41	08-11-87	-85	-10.3	--	--	--	--
42	08-11-87	-90	-11.8	--	--	--	--
43	08-11-87	-94	-12.1	--	--	--	--
44	06-21-88	-98	-12.6	--	--	--	--
45	01-26-89	-116	-14.2	-9.2	45	--	9.0
46	08-03-88	-89	-10.1	--	--	31	--
47	06-22-88	-97	-10.9	--	--	--	--
48	06-21-88	-88	-10.4	--	--	--	--
49	08-30-89	-95	-11.1	--	--	69	--
50	01-25-89	-115	-14.0	-9.6	52	--	9.8
51	06-22-88	-93	-11.2	--	--	--	--
52	02-22-89	-112	-14.6	-12.1	77	--	13
53	01-25-89	-114	-14.2	-9.5	51	--	9.7
54	03-07-89	-110	-14.5	-12.2	89	--	11
55	06-21-88	-97	-9.8	--	--	--	--
56	02-23-89	--	--	-12.0	--	--	--
57	08-30-89	-112	-14.2	--	--	<.30	--
58	03-01-89	-111	-14.1	-9.1	43	--	8.1
59	04-19-89	-96	-11.2	-14.1	--	--	--
60	04-19-89	-96	-11.2	-13.4	--	--	--
61	03-09-89	-92	-10.5	-11.3	--	--	9.5
62	09-01-88	-96	-11.5	--	--	77	--
63	04-18-89	-112	-14.0	-12.5	--	--	--
64	08-30-89	-91	-10.5	--	--	44	--
65	02-28-89	-84	-10.4	-11.0	90	--	-.3
66	04-26-89	-89	-10.8	-11.7	--	33	10
67	08-03-88	-96	-11.0	--	--	62	--
68	08-10-89	-95	-11.4	--	--	--	--
69	04-26-89	-93	-10.9	--	--	55	--
70	02-28-89	-92	-11.2	-12.2	85	--	-4.4
71	03-02-89	-112	-14.3	-8.4	36	--	11
72	06-20-88	-96	-12.3	--	--	--	--
73	04-25-89	-116	-14.6	-10.2	51	.70	12
74	08-02-88	-93	-10.8	--	--	--	--
75	03-06-89	-115	-14.6	-11.6	73	--	12
76	03-01-89	-116	-14.6	-11.4	69	--	13
77	04-25-89	-114	-14.8	-9.9	18	<.30	27
78	03-09-89	-115	-14.8	-8.2	15	--	15
79	08-02-88	-98	-10.7	--	--	55	--

Table 40. Carbamate insecticides in ground-water samples from Carson Desert

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 5)	Date	Methomyl, total (ug/L)	Propham total (ug/L)	Sevin, (ug/L)
18	07-13-88	<0.50	<0.50	<0.50
20	07-12-88	<.50	<.50	<.50
22	07-13-88	<.50	<.50	<.50
26	07-12-88	<.50	<.50	<.50
44	06-21-88	<.50	<.50	<.50
46	08-03-88	<.50	<.50	<.50
47	06-22-88	<.50	<.50	<.50
	06-22-88	<.50	<.50	<.50
48	06-21-88	<.50	<.50	<.50
51	06-22-88	<.50	<.50	<.50
55	06-21-88	<.50	<.50	<.50
62	09-01-88	<.50	<.50	<.50
67	08-03-88	<.50	<.50	<.50
72	06-20-88	<.50	<.50	<.50
74	08-02-88	<.50	<.50	<.50
79	08-02-88	<.50	<.50	<.50

Table 41. Chlorophenoxy-acid herbicides in ground-water samples from Carson Desert

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than; --, not determined]

Site (fig. 5)	Date	2,4-D, total (µg/L)	2,4,5-T total (µg/L)	SILVEX, total (µg/L)	2,4-DP total (µg/L)
18	07-13-88	<0.01	<0.01	<0.01	<0.01
	05-04-89	<.01	<.01	<.01	<.01
20	07-12-88	<.01	<.01	<.01	<.01
	05-03-89	<.01	<.01	<.01	<.01
22	07-13-88	<.01	<.01	<.01	<.01
26	05-04-89	<.01	<.01	<.01	<.01
	07-12-88	<.01	<.01	<.01	<.01
44	05-04-89	<.01	<.01	<.01	<.01
	06-21-88	<.01	<.01	<.01	<.01
	05-04-89	<.01	<.01	<.01	<.01
46	08-03-88	<.01	<.01	<.01	<.01
	05-04-89	<.01	<.01	<.01	<.01
47	06-22-88	<.10	<.10	<.10	<.10
	05-03-89	<.01	<.01	<.01	<.01
48	06-21-88	<.01	<.01	<.01	<.01
51	08-16-89	<.01	<.01	<.01	<.01
	06-22-88	.07	<.01	.01	<.01
55	06-22-88	<.01	<.01	<.01	<.01
	06-21-88	--	<.10	<.10	<.10
	09-01-88	<.01	<.01	<.01	<.01
62	05-03-89	<.01	<.01	<.01	<.01
	09-01-88	<.01	<.01	<.01	<.01
67	08-15-89	<.01	<.01	<.01	<.01
	08-03-88	<.01	<.01	<.01	<.01
	08-16-89	<.01	<.01	<.01	<.01
72	06-20-88	--	<.01	--	<.01
	06-20-88	<.01	<.01	<.01	<.01
74	05-09-89	<.01	<.01	<.01	<.01
	08-02-88	<.01	<.01	<.01	<.01
	05-03-89	<.01	<.01	<.01	<.01
79	08-02-88	<.01	<.01	<.01	<.01
	05-09-89	<.01	<.01	<.01	<.01

Table 42. Triazines and other nitrogen-containing pesticides in ground-water samples from Carson Desert

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 4)	Date	Alachlor, total recoverable (µg/L)	Ametryne, total (µg/L)	Atrazine, total (µg/L)	Cyanazine, total (µg/L)	Metachlor, total (µg/L)	Prometone, total (µg/L)	Prometryne, total (µg/L)	Propazine, total (µg/L)	Simazine, total (µg/L)	Simetryne total (µg/L)	Trifluralin, total recoverable (µg/L)
18	07-13-88	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	05-04-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
20	07-12-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	05-03-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
22	07-13-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
26	05-04-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	07-12-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
44	05-04-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	06-21-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	05-04-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
46	08-03-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	05-04-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
47	06-22-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	05-03-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
48	06-21-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	.1	<.1	<.1
51	08-16-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
55	06-22-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	06-21-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
62	05-03-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	09-01-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
67	08-15-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	08-03-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
72	08-16-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	06-20-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	05-09-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
74	08-02-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	05-03-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
79	08-02-88	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
	05-09-89	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1

Table 43. Organochlorine and organophosphorus compounds in ground-water samples from Carson Desert

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 2)	Date	PCB, dissolved (µg/L)	PCN, dissolved (µg/L)
18	07-13-88	<0.1	<0.1
	05-04-89	<.1	<.1
20	07-12-88	<.1	<.1
	05-03-89	<.1	<.1
22	07-13-88	<.1	<.1
26	05-04-89	<.1	<.1
	07-12-88	<.1	<.1
44	05-04-89	<.1	<.1
	06-21-88	<.1	<.1
	05-04-89	<.1	<.1
46	08-03-88	<.1	<.1
	05-04-89	<.1	<.1
47	06-22-88	<.1	<.1
	05-03-89	<.1	<.1
48	06-21-88	<.1	<.1
51	08-16-89	<.1	<.1
55	06-22-88	<.1	<.1
	09-01-88	<.1	<.1
62	05-03-89	<.1	<.1
	09-01-88	<.1	<.1
67	08-15-89	<.1	<.1
	08-03-88	<.1	<.1
72	08-15-89	<.1	<.1
74	05-09-89	<.1	<.1
	08-02-88	<.1	<.1
79	05-03-89	<.1	<.1
	08-02-88	<.1	<.1
	05-03-89	<.1	<.1

Table 44. Volatile organic compounds in ground-water samples from Carson Desert

[Abbreviations and symbols: µg/L, micrograms per liter;<, less than; --, not determined]

Site (fig. 5)	Date	Methyl-chio-ride, total (µg/L)	Methyi-ene chio-ride, total (µg/L)	Chioro-form, total (µg/L)	Carbon tetra-chio-ride, total (µg/L)	Methyi bromide, total (µg/L)	Di-bromo-methane, whole-water (µg/L)	Bromo-form, total (µg/L)	Di-chioro-bromo-methane, total (µg/L)	Chioro-di-bromo-methane, total (µg/L)
15	03-08-89	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
16	04-18-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	04-18-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
17	04-21-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
18	07-13-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
19	03-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
20	07-12-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
21	04-20-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
22	07-13-88	<.2	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
23	04-20-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
24	01-27-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
25	08-10-89	<.2	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
26	07-12-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
27	04-20-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
28	03-08-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
29	04-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
44	06-21-88	<.2	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
45	01-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	01-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
46	08-03-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
47	06-22-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
48	06-21-88	<.2	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
49	08-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
50	01-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
51	06-22-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
52	02-22-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
53	01-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
54	03-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
55	06-21-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
56	02-23-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
57	08-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
58	03-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
59	04-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
60	04-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
61	03-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
62	09-01-88	<.2	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2
	08-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
63	04-18-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
64	08-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
65	02-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 44. Volatile organic compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Methyl-chloride, total (µg/L)	Methylene chloride, total (µg/L)	Chloroform, total (µg/L)	Carbon tetrachloride, total (µg/L)	Methyl bromide, total (µg/L)	Dibromomethane, whole-water (µg/L)	Bromoform, total (µg/L)	Dichlorobromomethane, total (µg/L)	Chlorodibromomethane, total (µg/L)
66	04-26-89	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
67	08-03-88	--	--	--	--	--	--	--	--	--
68	08-10-89	<.2	--	<.2	<.2	<.2	<.2	<.2	<.2	<.2
69	04-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
70	02-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
71	03-02-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
72	06-20-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
73	04-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
74	08-02-88	--	--	--	--	--	--	--	--	--
75	03-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
76	03-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
77	04-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
78	03-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
79	08-02-88	--	--	--	--	--	--	--	--	--

Table 44. Volatile organic compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Trichlorofluoromethane, total (µg/L)	Dichlorodifluoromethane, total (µg/L)	Chloroethane, total (µg/L)	1,1-Dichloroethane, total (µg/L)	1,2-Dichloroethane, total (µg/L)	1,1,1-Trichloroethane, total (µg/L)	1,1,2-Trichloroethane, total (µg/L)	1,1,2,2-Tetrachloroethane, total (µg/L)	1,2-Dibromoethane, whole-water, total (µg/L)	Vinyl chloride, total (µg/L)
15	03-08-89	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
16	04-18-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	04-18-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
17	04-21-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
18	07-13-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
19	03-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
20	07-12-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
21	04-20-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
22	07-13-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	--	<.2
23	04-20-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
24	01-27-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
25	08-10-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
26	07-12-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
27	04-20-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
28	03-08-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
29	04-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
44	06-21-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
45	01-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	01-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
46	08-03-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
47	06-22-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
48	06-21-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
49	08-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
50	01-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
51	06-22-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
52	02-22-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
53	01-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
54	03-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
55	06-21-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
56	02-23-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
57	08-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
58	03-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
59	04-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
60	04-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
61	03-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
62	09-01-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	08-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
63	04-18-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
64	08-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
65	02-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 44. Volatile organic compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Tri-chloro-fluoro-methane, total (µg/L)	Di-chloro-difluoro-methane, total (µg/L)	Chloro-ethane, total (µg/L)	1,1-Di-chloro-ethane, total (µg/L)	1,2-Di-chloro-ethane, total (µg/L)	1,1,1-Tri-chloro-ethane, total (µg/L)	1,1,2-Tri-chloro-ethane, total (µg/L)	1,1,2,2-Tetra-chloro-ethane, total (µg/L)	1,2-Dibromo-ethane, whole-water, total (µg/L)	Vinyl chloride, total (µg/L)
66	04-26-89	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
67	08-03-88	--	--	--	--	--	--	--	--	--	--
68	08-10-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
69	04-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
70	02-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
71	03-02-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
72	06-20-88	<.2	<.2	<.2	<.2	--	<.2	<.2	<.2	--	<.2
73	04-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
74	08-02-88	--	--	--	--	--	--	--	--	--	--
75	03-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
76	03-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
77	04-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
78	03-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
79	08-02-88	--	--	--	--	--	--	--	--	--	--

Table 44. Volatile organic compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	1,1-Dichloroethylene, total (µg/L)	Trichloroethylene, total (µg/L)	Tetrachloroethylene, total (µg/L)	1,2-Dibromoethylene, total (µg/L)	1,2-Dichloropropane, total (µg/L)	1,2,3-Trichloropropane, whole-water, total (µg/L)	Trans-1,3-Dichloropropene, total (µg/L)	Cis-1,3-Dichloropropene, total (µg/L)	Benzene, total (µg/L)
15	03-08-89	<0.2	<0.2	<0.2	--	<0.2	<0.2	<0.2	<0.2	<0.2
16	04-18-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	04-18-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
17	04-21-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
18	07-13-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
19	03-07-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
20	07-12-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
21	04-20-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
22	07-13-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
23	04-20-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
24	01-27-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
25	08-10-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
26	07-12-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
27	04-20-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
28	03-08-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
29	04-28-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
44	06-21-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
45	01-26-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
	01-26-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
46	08-03-88	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
47	06-22-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
48	06-21-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
49	08-30-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
50	01-25-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
51	06-22-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
52	02-22-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
53	01-25-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
54	03-07-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
55	06-21-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
56	02-23-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
57	08-30-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
58	03-01-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
59	04-19-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
60	04-19-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
61	03-09-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
62	09-01-88	<.2	<.2	<.2	--	<.2	--	<.2	<.2	--
	08-30-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
63	04-18-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
64	08-30-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
65	02-28-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2

Table 44. Volatile organic compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	1,1-Dichloroethylene, total (µg/L)	Trichloroethylene, total (µg/L)	Tetrachloroethylene, total (µg/L)	1,2-Dibromoethylene, total (µg/L)	1,2-Dichloropropane, total (µg/L)	1,2,3-Trichloropropane, whole-water, total (µg/L)	Trans-1,3-Dichloropropene, total (µg/L)	Cis-1,3-Dichloropropene, total (µg/L)	Benzene, total (µg/L)
66	04-26-89	<0.2	<0.2	<0.2	--	<0.2	<0.2	<0.2	<0.2	<0.2
67	08-03-88	<.2	<.2	--	--	--	--	--	--	--
68	08-10-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
69	04-26-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
70	02-28-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
71	03-02-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
72	06-20-88	<.2	<.2	<.2	<0.2	<.2	<.2	<.2	<.2	<.2
73	04-25-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
74	08-02-88	<.2	<.2	--	--	--	--	--	--	--
75	03-06-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
76	03-01-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
77	04-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
78	03-09-89	<.2	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
79	08-02-88	<.2	<.2	--	--	--	--	--	--	--

Table 44. Volatile organic compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Xylene, whole-water, total (µg/L)	Ethyl benzene, total (µg/L)	Toluene, total (µg/L)	Styrene, total (µg/L)	Chloro-benzene, total (µg/L)	1,2-Di-chloro-benzene, total (µg/L)	1,3-Di-chloro-benzene, total (µg/L)	1,4-Di-chloro-benzene, total (µg/L)
15	03-08-89	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
16	04-18-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	04-18-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
17	04-21-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
18	07-13-88	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
19	03-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
20	07-12-88	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
21	04-20-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
22	07-13-88	--	<.2	--	<.2	<.2	<5	<5	<5
23	04-20-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
24	01-27-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
25	08-10-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
26	07-12-88	<.2	<.2	--	<.2	<.2	<5	<5	<5
27	04-20-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
28	03-08-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
29	04-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
44	06-21-88	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
45	01-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
	01-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
46	08-03-88	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
47	06-22-88	<.2	<.2	--	<.2	<.2	<5	<5	<5
48	06-21-88	<.2	<.2	--	<.2	<.2	<5	<5	<5
49	08-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
50	01-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
51	06-22-88	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
52	02-22-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
53	01-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
54	03-07-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
55	06-21-88	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
56	02-23-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
57	08-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
58	03-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
59	04-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
60	04-19-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
61	03-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
62	09-01-88	--	--	--	<.2	<.2	<5	<5	<5
	08-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
63	04-18-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
64	08-30-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
65	02-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

Table 44. Volatile organic compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Xylene, whole-water, total (µg/L)	Ethyl benzene, total (µg/L)	Toluene, total (µg/L)	Styrene, total (µg/L)	Chloro-benzene, total (µg/L)	1,2-Di-chloro-benzene, total (µg/L)	1,3-Di-chloro-benzene, total (µg/L)	1,4-Di-chloro-benzene, total (µg/L)
66	04-26-89	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
67	08-03-88	--	--	--	--	--	<5	<5	<5
68	08-10-89	<.2	<.2	--	<.2	<.2	<.2	<.2	<.2
69	04-26-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
70	02-28-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
71	03-02-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
72	06-20-88	<.2	<.2	<.2	<.2	<.2	<5	<5	<5
73	04-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
74	08-02-88	--	--	--	--	--	<5	<5	<5
75	03-06-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
76	03-01-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
77	04-25-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
78	03-09-89	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
79	08-02-88	--	--	--	--	--	<5	<5	<5

Table 45. Phenolic compounds in ground-water samples from Carson Desert

[Abbreviations and symbols: µg/L, micrograms per liter; <, less than]

Site (fig. 5)	Date	4-6 Dinitro-ortho-cresol, total (µg/L)	Para-chloro-meta-cresol, total (µg/L)	2-Chloro-phenol total (µg/L)	2,4-Di-chloro-phenol total (µg/L)	2,4-Di-methyl-phenol, total (µg/L)	2,4-Dini-tro-phenol, total (µg/L)
18	07-13-88	<30	<30	<5	<5	<5	<20
20	07-12-88	<30	<30	<5	<5	<5	<20
22	07-13-88	<30	<30	<5	<5	<5	<20
26	07-12-88	<30	<30	<5	<5	<5	<20
44	06-21-88	<30	<30	<5	<5	<5	<20
46	08-03-88	<30	<30	<5	<5	<5	<20
47	06-22-88	<30	<30	<5	<5	<5	<20
48	06-21-88	<30	<30	<5	<5	<5	<20
51	06-22-88	<30	<30	<5	<5	<5	<20
55	06-21-88	<30	<30	<5	<5	<5	<20
62	09-01-88	<30	<30	<5	<5	<5	<20
67	08-03-88	<30	<30	<5	<5	<5	<20
72	06-20-88	<30	<30	<5	<5	<5	<20
74	08-02-88	<30	<30	<5	<5	<5	<20
79	08-02-88	<30	<30	<5	<5	<5	<20

Site (fig. 5)	Date	2-Nitro-phenol, total (µg/L)	4-Nitro-phenol, total (µg/L)	Penta-chloro-phenol, total (µg/L)	Phenol, total (µg/L)	2,4,6-Tri-chlorophenol, total (µg/L)
18	07-13-88	<5	<30	<30	<5	<20
20	07-12-88	<5	<30	<30	<5	<20
22	07-13-88	<5	<30	<30	<5	<20
26	07-12-88	<5	<30	<30	<5	<20
44	06-21-88	<5	<30	<30	<5	<20
46	08-03-88	<5	<30	<30	<5	<20
47	06-22-88	<5	<30	<30	<5	<20
48	06-21-88	<5	<30	<30	<5	<20
51	06-22-88	<5	<30	<30	<5	<20
55	06-21-88	<5	<30	<30	<5	<20
62	09-01-88	<5	<30	<30	<5	<20
67	08-03-88	<5	<30	<30	<5	<20
72	06-20-88	<5	<30	<30	<5	<20
74	08-02-88	<5	<30	<30	<5	<20
79	08-02-88	<5	<30	<30	<5	<20

Table 46. Polynulear aromatic compounds in ground-water samples from Carson Desert

[Abbreviations and symbols: µg/L, micrograms per liter; <. less than; --, not determined]

Site (fig. 5)	Date	Acenaph-thyiene, totai (µg/L)	Acenaph-thene, totai (µg/L)	Anthra-cene, totai (µg/L)	Benzo-(a) anthra-cene, totai (µg/L)	Benzo-(a) pyrene, totai (µg/L)	Benzo-(b) fiuor-anthene, totai (µg/L)	Benzo-(g,h,i) pery iene, totai (µg/L)	Benzo-(k) fiuor-anthene, total (µg/L)
18	07-13-88	<5	<5	<5	<5	<10	<10	<10	<10
20	07-12-88	<5	<5	<5	<5	<10	<10	<10	<10
22	07-13-88	<5	<5	<5	<5	<10	<10	<10	<10
26	07-12-88	<5	<5	<5	<5	<10	<10	<10	<10
44	06-21-88	<5	<5	<5	<5	<10	<10	<10	<10
46	08-03-88	<5	<5	<5	<5	<10	<10	<10	<10
47	06-22-88	<5	<5	<5	<5	<10	<10	<10	<10
48	06-21-88	<5	<5	<5	<5	<10	<10	<10	<10
51	06-22-88	<5	<5	<5	<5	<10	<10	<10	<10
55	06-21-88	<5	<5	<5	<5	<10	<10	<10	<10
62	09-01-88	<5	<5	<5	<5	<10	<10	<10	<10
67	08-03-88	<5	<5	<5	<5	<10	<10	<10	<10
72	06-20-88	<5	<5	<5	<5	<10	<10	<10	<10
74	08-02-88	<5	<5	<5	<5	<10	<10	<10	<10
79	08-02-88	<5	<5	<5	<5	<10	<10	<10	<10

Site (fig. 5)	Date	Bis 2-chloro-Isopropyl-ether, totai (µg/L)	Bis 2-chloro-ethoxy-methane, totai (µg/L)	Bis 2-chloro-ethyi ether, totai (µg/L)	4-Bromo-phenyi ether, total (µg/L)	2-Chioro-naph-thaiene, total (µg/L)	4-Chioro-phenyi ether, total (µg/L)	Chry sene, totai (µg/L)	1,2,5,6-Dibenz-anthra cene, totai (µg/L)
18	07-13-88	<5	<5	<5	<5	<5	<5	<10	<10
20	07-12-88	<5	<5	<5	<5	<5	<5	<10	<10
22	07-13-88	<5	<5	<5	<5	<5	<5	<10	<10
26	07-12-88	<5	<5	<5	<5	<5	<5	<10	<10
44	06-21-88	<5	<5	<5	<5	<5	<5	<10	<10
46	08-03-88	<5	<5	<5	<5	<5	<5	<10	<10
47	06-22-88	<5	<5	<5	<5	<5	<5	<10	<10
48	06-21-88	<5	<5	<5	<5	<5	<5	<10	<10
51	06-22-88	<5	<5	<5	<5	<5	<5	<10	<10
55	06-21-88	<5	<5	<5	<5	<5	<5	<10	<10
62	09-01-88	<5	<5	<5	<5	<5	<5	<10	<10
67	08-03-88	<5	<5	<5	<5	<5	<5	<10	<10
72	06-20-88	<5	<5	<5	<5	<5	<5	<10	<10
74	08-02-88	<5	<5	<5	<5	<5	<5	<10	<10
79	08-02-88	<5	<5	<5	<5	<5	<5	<10	<10

Table 46. Polynulear aromatic compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	2,4-Dinitrotoluene, total (µg/L)	2,6-Dinitrotoluene, total (µg/L)	Fluoranthene, total (µg/L)	Fluorene, total (µg/L)	Hexachlorocyclopentadiene, total (µg/L)	Hexachloroethane total (µg/L)	Indeno (1,2,3-cd) pyrene, total (µg/L)	Isophorone, total (µg/L)
18	07-13-88	<5	<5	<5	<5	<5	<5	<10	<5
20	07-12-88	<5	<5	<5	<5	<5	<5	<10	<5
22	07-13-88	<5	<5	<5	<5	<5	<5	<10	<5
26	07-12-88	<5	<5	<5	<5	<5	<5	<10	<5
44	06-21-88	<5	<5	<5	<5	<5	<5	<10	<5
46	08-03-88	<5	<5	<5	<5	<5	<5	<10	<5
47	06-22-88	<5	<5	<5	<5	<5	<5	<10	<5
48	06-21-88	<5	<5	<5	<5	<5	<5	<10	<5
51	06-22-88	<5	<5	<5	<5	<5	<5	<10	<5
55	06-21-88	<5	<5	<5	<5	<5	<5	<10	<5
62	09-01-88	<5	<5	<5	<5	<5	<5	<10	<5
67	08-03-88	<5	<5	<5	<5	<5	<5	<10	<5
72	06-20-88	<5	<5	<5	<5	<5	<5	<10	<5
74	08-02-88	<5	<5	<5	<5	<5	<5	<10	<5
79	08-02-88	<5	<5	<5	<5	<5	<5	<10	<5

Site (fig. 5)	Date	N-nitrosodi-n-propylamine, total (µg/L)	N-nitrosodiphenylamine, total (µg/L)	N-nitrosodimethylamine (µg/L)	Naphthalene, total (µg/L)	Phenanthrene, total (µg/L)	Bis (2-ethylhexyl) phthalate, total (µg/L)	Diethylphthalate, total (µg/L)	Dimethylphthalate, total (µg/L)
18	07-13-88	<5	<5	<5	<5	<5	<5	<5	<5
20	07-12-88	<5	<5	<5	<5	<5	<5	<5	<5
22	07-13-88	<5	<5	<5	<5	<5	<5	<5	<5
26	07-12-88	<5	<5	<5	<5	<5	<5	<5	<5
44	06-21-88	<5	<5	<5	<5	<5	<5	<5	<5
46	08-03-88	<5	<5	<5	<5	<5	<5	<5	<5
47	06-22-88	<5	<5	<5	<5	<5	<5	<5	<5
48	06-21-88	<5	<5	<5	<5	<5	<5	<5	<5
51	06-22-88	<5	<5	<5	<5	<5	<5	<5	<5
55	06-21-88	<5	<5	<5	<5	<5	<5	<5	<5
62	09-01-88	<5	<5	<5	<5	<5	<5	<5	<5
67	08-03-88	<5	<5	<5	<5	<5	<5	<7	<5
72	06-20-88	<5	<5	<5	<5	<5	<5	<5	<5
74	08-02-88	<5	<5	<5	<5	<5	<5	<5	<5
79	08-02-88	<5	<5	<5	<5	<5	<5	<5	<5

Table 46. Polynulear aromatic compounds in ground-water samples from Carson Desert—Continued

Site (fig. 5)	Date	Di-n-butyl-phtha-late total (µg/L)	Di-n-octyl-phtha-late total (µg/L)	Benzyl butyl phtha-late total (µg/L)	Pyrene, total (µg/L)	1,2,4-Tri-chloro-benzene, total (µg/L)
18	07-13-88	<5	<10	<5	<5	<5
20	07-12-88	<5	<10	<5	<5	<5
22	07-13-88	<5	<10	<5	<5	<5
26	07-12-88	<5	<10	<5	<5	<5
44	06-21-88	<5	<10	<5	<5	<5
46	08-03-88	<5	<10	<5	<5	<5
47	06-22-88	<5	<10	<5	<5	<5
48	06-21-88	<5	<10	<5	<5	<5
51	06-22-88	<5	<10	<5	<5	<5
55	06-21-88	--	<10	<5	<5	<5
62	09-01-88	<5	<10	<5	<5	<5
67	08-03-88	<5	<10	<5	<5	<5
72	06-20-88	<5	<10	<5	<5	<5
74	08-02-88	<5	<10	<5	<5	<5
79	08-02-88	<5	<10	<5	<5	<5