

# STATISTICAL AND DESCRIPTIVE SUMMARIES OF WATER-RESOURCES DATA FOR THE CANNONBALL RIVER BASIN, NORTH DAKOTA AND SOUTH DAKOTA

By Edwin A. Wesolowski, Scott D. Zainhofsky, and  
Valerie M. Dressler

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By Edwin A. Wesolowski, Scott D. Zainhofsky, *and* Valerie M. Dressler

## **Abstract**

Existing hydrologic data and information for the Cannonball River Basin were compiled by the U.S. Geological Survey in cooperation with the Bureau of Reclamation. This report presents a summary of surface-water quality and streamflow data, ground-water quality data, ground-water level data, water-use data, and other information compiled from the U.S. Geological Survey, Bureau of Reclamation, North Dakota Game and Fish Department, North Dakota Department of Health, North Dakota Parks and Recreation Department, North Dakota State Water Commission, and Standing Rock Sioux Tribe data bases. The data are summarized statistically or descriptively, depending on the amount or nature of the data.

## **INTRODUCTION**

The Bureau of Reclamation, in cooperation with the Standing Rock Sioux Tribe and the North Dakota State Water Commission, has begun a water-management study of the Cannonball River Basin. The Cannonball River Basin Water Management (CRBWM) study is part of a larger study known as the Missouri River Basin Tribes Water Management Study (MRBT-WMS). The purpose of the MRBT-WMS is to assist the tribes with the preparation of water-development and water-management plans. The purpose of the CRBWM study is to develop data, information, and analysis techniques to assist Federal, State, local, and tribal agencies in the management of water and other natural resources in the Cannonball River Basin. Of the seven objectives of the CRBWM study, three pertain to the hydrology of the basin. These three objectives are to (1) compile existing hydrologic data and information, describe the distribution and timing of data collection, and identify data gaps; (2) define future baseline hydrologic conditions that could be expected without water-management changes; and (3) develop methods for assessing the effects of various water-management plans.

To accomplish objective 1, the Bureau of Reclamation requested that the U.S. Geological Survey compile existing hydrologic data and information for the Cannonball River Basin. This report presents a summary of surface-water quality and streamflow data, ground-water quality data, ground-water level data, water-use data, and other information compiled from Federal, State, and tribal agency data bases. The data are summarized statistically or descriptively, depending on the amount or nature of the data.

Water-resources data and other information for the Cannonball River Basin were obtained from the U.S. Geological Survey and from other Federal, State, and tribal agencies. Most of the existing water-resources data were retrieved from computerized data bases maintained by the U.S. Geological Survey. The data may be similar to data obtained from other agencies because of the U.S. Geological Survey's cooperative programs with some of those agencies, but no attempt was made to remove duplicate data

from the report. The data are summarized in two different formats because of incompatibility among U.S. Geological Survey and other agency databases or because the data from other Federal, State, and tribal agencies sometimes were received as hard copy rather than electronic files.

The Cannonball River Basin, located in southwestern North Dakota and north-central South Dakota, drains parts of Adams, Billings, Bowman, Grant, Hettinger, Morton, Sioux, Slope, and Stark Counties, N. Dak., and Corson and Perkins Counties, S. Dak. (fig. 1). The total drainage area is about 4,310 square miles. The basin is divided into three subbasins--the upper Cannonball River (hydrologic unit 10130204), the Cedar Creek (hydrologic unit 10130205), and the lower Cannonball River (hydrologic unit 10130206) (fig. 1). From its headwaters, the Cannonball River flows in a southeasterly direction to its confluence with Cedar Creek and then flows in a northeasterly direction to its confluence with the Missouri River. The entire river is 320 miles long. The basin has a well-developed drainage system, and many impoundments have been created on some of the minor tributaries in the basin.

Most of the land in the Cannonball River Basin is relatively smooth prairie broken at intervals by small sections of rough, deeply eroded, badlands-like plateaus. The Cannonball River and Cedar Creek cut parallel valleys across the basin to their confluence about 75 river miles from the mouth of the Cannonball River. The valleys cut down rapidly near the headwaters and then gradually level off and widen from about one-fourth of a mile wide in the upper reaches to about 2 miles wide in the lower reaches. At the confluence of the Cannonball and Missouri Rivers, the altitude of the flood plain is about 1,590 feet. Little forest growth occurs in the basin; the natural ground cover consists of short grasses on the prairies and brush on the river breaks. A few cottonwood, elm, and boxelder trees fringe the river channels.

## **STATISTICAL AND DESCRIPTIVE SUMMARIES OF WATER-RESOURCES DATA AND OTHER INFORMATION FROM THE U.S. GEOLOGICAL SURVEY**

This section consists of surface-water quality and streamflow data (tables 1, 2, and 3); ground-water quality data (tables 4 and 5); ground-water level data (tables 6 and 7); water-use data; and bibliographic information obtained from the U.S. Geological Survey. Water-quality data were collected periodically, streamflow data were collected daily, and ground-water level data were measured both daily and periodically.

The basic data were retrieved from the National Water Information System (NWIS) computerized data bases maintained by the U.S. Geological Survey. The NWIS consists of several data bases that represent different facets of water resources. These data bases are the Ground-Water Site Inventory (GWSI) system, the Automated Data Processing System (ADAPS), the Water-Quality System (QWDATA), and the Site-Specific Water-Use Data System (SWUDS). The NWIS system contains descriptive information for all U.S. Geological Survey data-collection sites in North Dakota, except for some water-use sites. The locations of the data-collection sites for which data were retrieved are shown in figures 2 and 3. Because tables were created by "data dumps", duplication of some constituents may occur, significant figures were not rounded, and some parameters or data fields, such as agency collecting sample, agency analyzing sample, sampling method, conversion factor, etc., do not lend themselves to meaningful descriptive statistics.

### **Surface-Water Quality and Streamflow Data**

Long-term surface-water sites are identified by an eight-digit number that was assigned in a downstream order along the mainstream. All sites on tributaries upstream from a mainstream site are assigned numbers smaller than the mainstream site, and all sites on tributaries between two mainstream

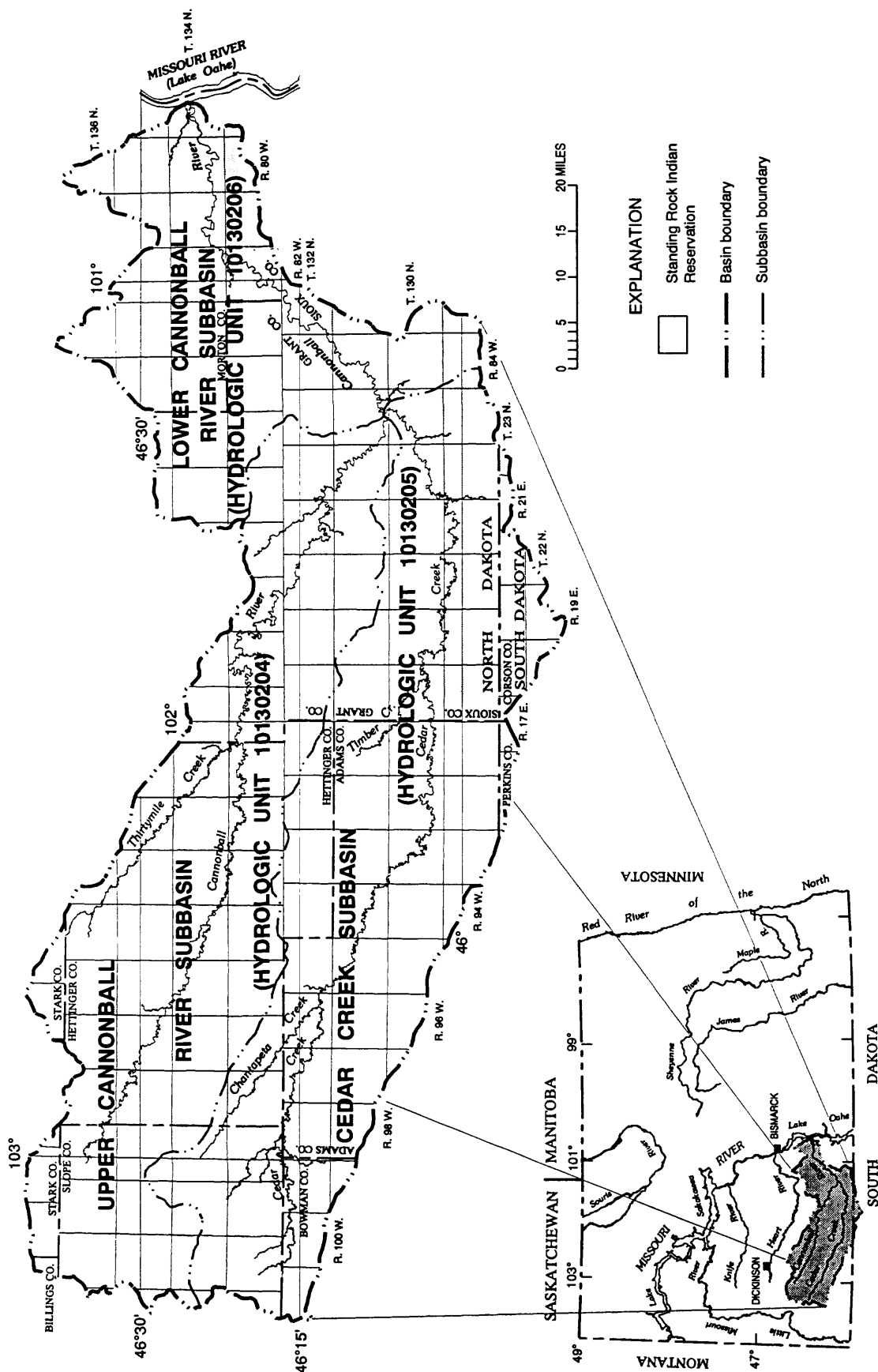
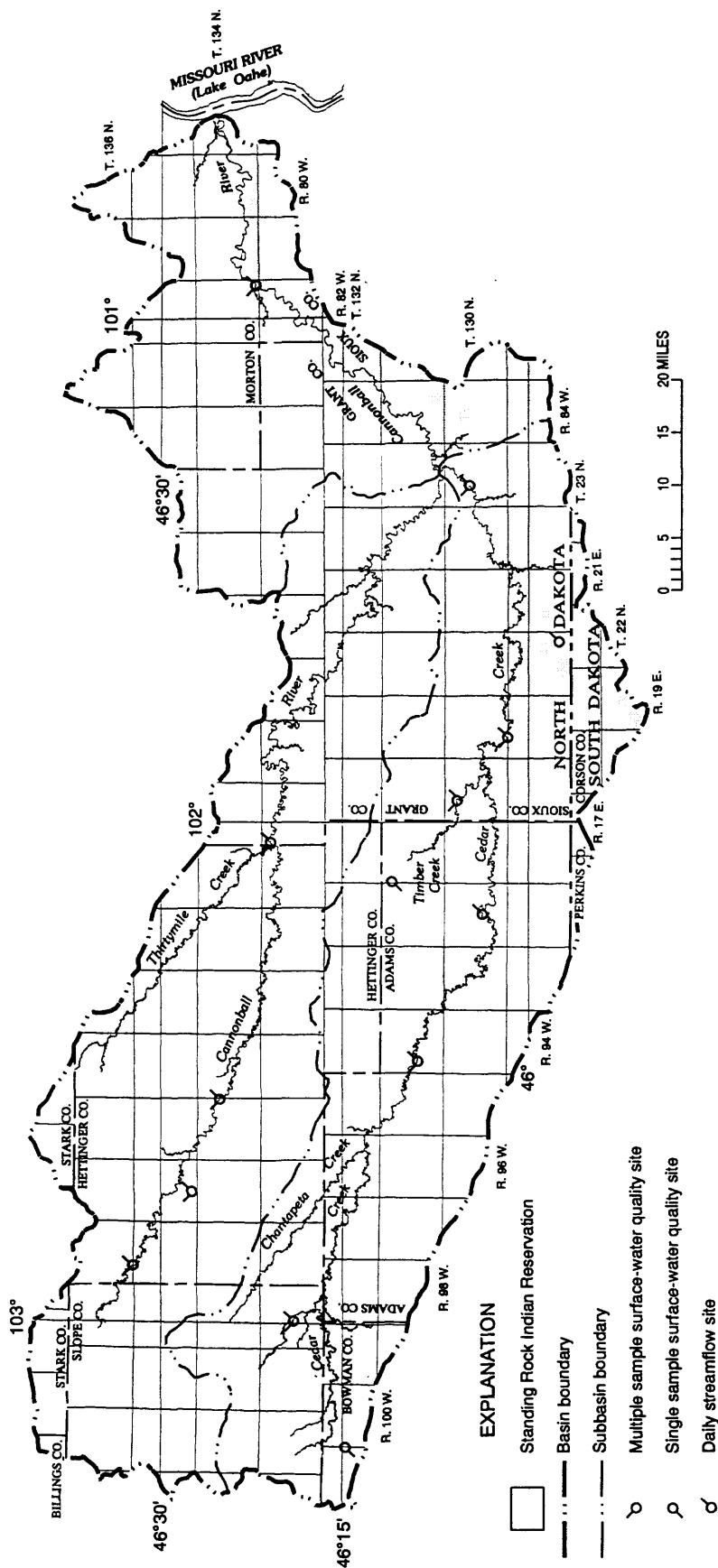
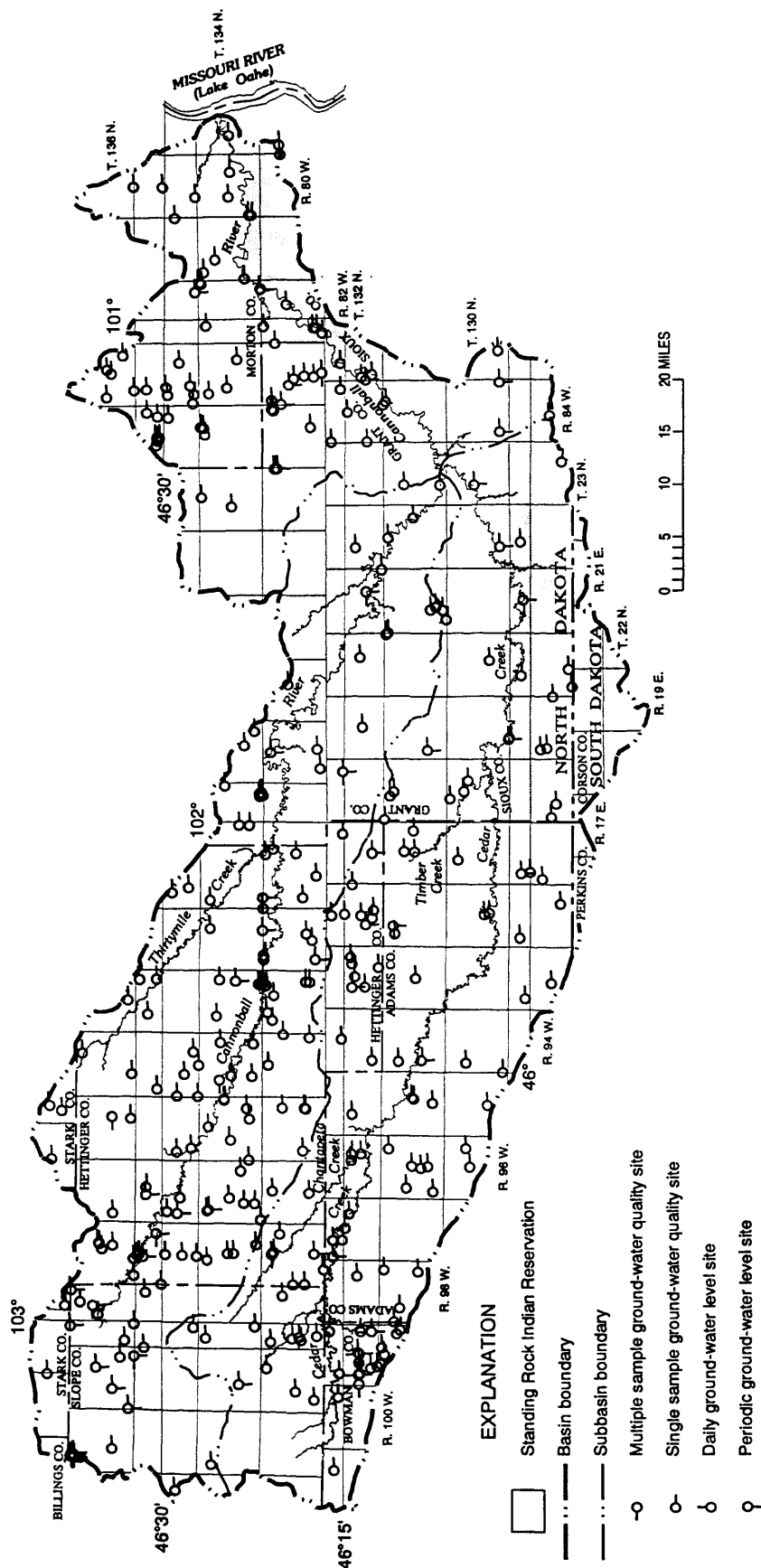


Figure 1. Location of Cannonball River Basin, North Dakota and South Dakota.



**Figure 2.** Location of data-collection sites in the Cannonball River Basin, North Dakota and South Dakota, for which surface-water quality and daily streamflow data were retrieved from the U.S. Geological Survey's National Water Information System.





**Figure 3.** Location of data-collection sites in the Cannonball River Basin, North Dakota and South Dakota, for which ground-water quality and ground-water level data were retrieved from the U.S. Geological Survey's National Water Information System.

sites are assigned numbers intermediate in magnitude to the mainstream sites. Short-term surface-water sites are identified by a site number that is based on 15-digit latitude-longitude numbering system (fig. 4). The first six digits denote the degrees, minutes, and seconds of latitude; the next seven digits denote the degrees, minutes, and seconds of longitude; and the last two digits (assigned sequentially) differentiate sites within a 1-second grid.

Surface-water quality and daily streamflow data for 10 surface-water sites are summarized in table 1, daily streamflow data for 2 sites are summarized in table 2, and surface-water quality data for 2 sites are summarized in table 3. Statistics shown for surface-water quality data include the:

1. Sample size--the number of data values used to compute the descriptive statistics.
2. Maximum--the largest value in a group of data values.
3. Minimum--the smallest value in a group of data values.
4. Mean--the sum of individual values in a group of data values divided by the total number of values in the group.
5. Standard deviation--a measure of the dispersion of data values about the mean; equal to the square root of the sum of the squares of deviations from a mean of all values in a group divided by the total number of values in the group.
6. Percent [75, 50 (median), and 25] of samples in which values were less than or equal to those shown--except for sites where only one sample was collected, only maximum and minimum values are given if the sample size is less than five.

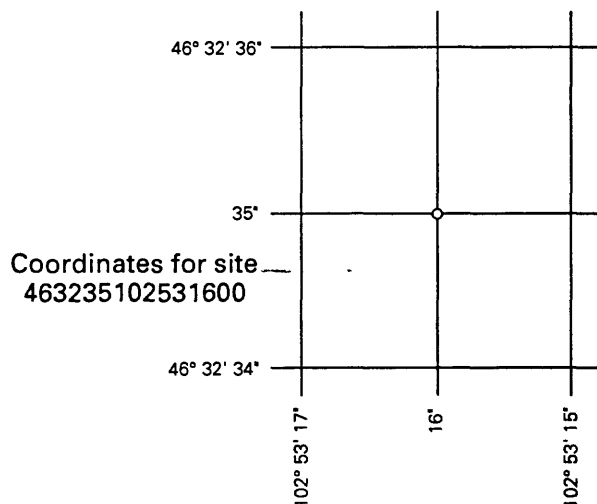
In addition to the sample size, maximum, minimum, mean, and standard deviation, statistics for streamflow data include the:

1. Coefficient of variation--a dimensionless measure of the dispersion of data values; equal to the percentage the standard deviation is of the mean.
2. Percent of annual runoff--a dimensionless measure of the amount of streamflow that passes the gage house; equal to the percentage monthly streamflow is of annual streamflow.
3. Percent [95, 75, 50 (median), 25, and 5] of days that had values less than or equal to those shown in cubic feet per second.

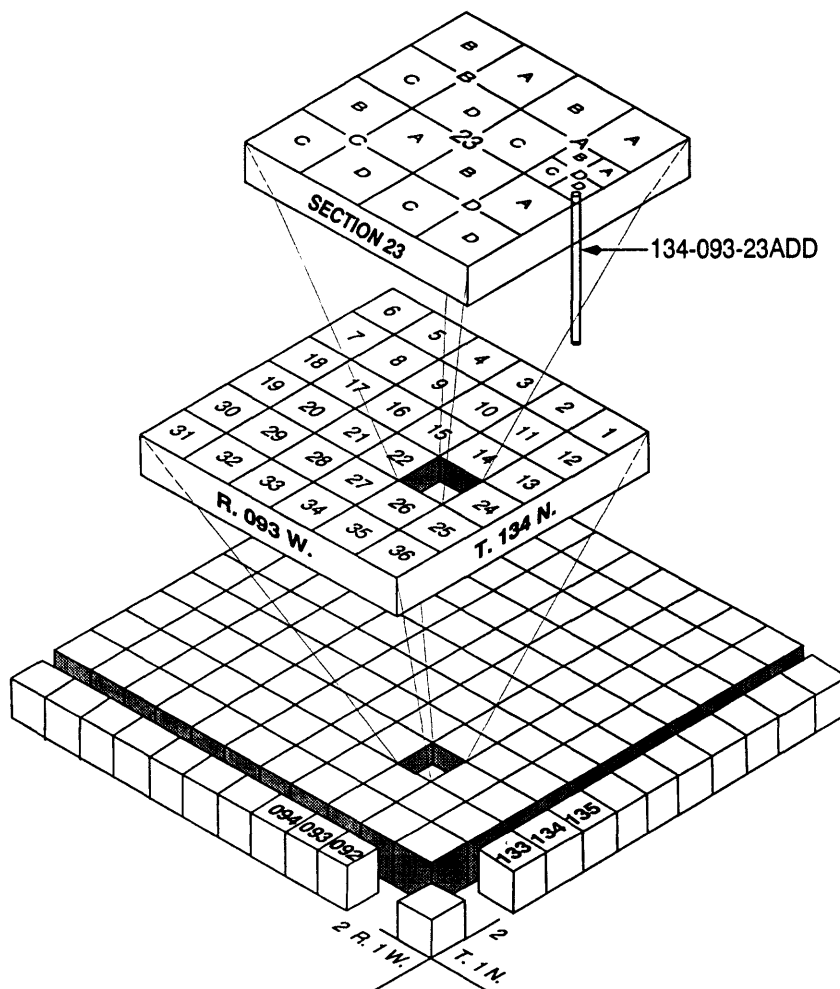
## **Ground-Water Quality and Ground-Water Level Data**

Ground-water sites are identified by a site number. In order to compare ground-water data given in this report to ground-water data given in other publications, the ground-water sites in this report are listed by both site number and local identifier. The local identifier is a township-range location number that is based on the Federal system of rectangular surveys of the public lands (fig. 5). The first number denotes the township north of a base line, the second number denotes the range west of the fifth principal meridian, and the third number denotes the section in which the site is located. The letters A, B, C, and D designate, respectively, the northeast, northwest, southwest, and southeast quarter section, quarter-quarter section, and quarter-quarter-quarter section (10-acre tract). For example, well 134-093-23ADD is in the SE1/4SE1/4NE1/4 sec. 23, T. 134 N., R. 93 W. Consecutive terminal numbers are added if more than one site is located within a 10-acre tract.

Ground-water quality data for 346 ground-water sites are shown in table 4, and data for 81 sites are summarized in table 5. The sites are shown in ascending order. Generally, data for sites at which one sample was collected are shown in table 4, and data for sites at which multiple samples were collected are summarized in table 5. However, a few sites at which one sample was collected had data for more constituents than shown in table 4. Therefore, data for those sites are summarized in table 5, which has a more complete constituent listing. Maximum and minimum ground-water level data for 63 sites are shown



**Figure 4.** Latitude-longitude numbering system used for short-term surface-water sites and for ground-water sites.



**Figure 5.** Township-range location-numbering system used for ground-water sites.

in tables 6 and 7. These sites also are shown in ascending order. Data for sites at which water levels were measured daily are shown in table 6, and data for sites at which water levels were measured periodically are shown in table 7.

## Water-Use Data

The U.S. Geological Survey canvasses other Federal agencies, State agencies, local agencies, and private individuals and offices for water-use data and stores those data in the SWUDS data base. Much of the water-use data are obtained from the North Dakota State Water Commission. These data are obtained from water-permit applications and from annual reports by water-permit holders. As of August 14, 1994, the North Dakota State Water Commission had issued 124 conditional water-use permits for the Cannonball River Basin. The amount of water appropriated for the 124 permits is about 10,030 acre-feet. The estimated water use for 1990 was calculated on the basis of retrievals from SWUDS. The estimated water use for the three subbasins in the Cannonball River Basin is shown in the following table:

### Estimated water use for 1990 for the three subbasins in the Cannonball River Basin

[Population, number of acres irrigated, and number of facilities are reported in whole numbers; per capita use is reported in gallons per day; all other values are reported in million gallons per day; --, no data]

Category	Upper Cannonball River	Cedar Creek	Lower Cannonball River	Total
<b>Domestic</b>				
Population, self-supplied, served by ground water	2,210	2,500	1,880	6,590
Population, self-supplied, served by surface water	0	0	0	0
Withdrawals, ground-water, fresh	.18	.19	.15	.52
Withdrawals, surface-water, fresh	0	0	0	0
Consumptive use	.18	.19	.15	.52
Per capita use	81	76	80	<sup>1</sup> 79
<b>Public-supplied domestic</b>				
Population, public-supplied, served by ground water	2,810	--	680	3,490
Population, public-supplied, served by surface water	0	--	0	0
Withdrawals, ground-water, fresh	.26	--	.05	.31
Withdrawals, surface-water, fresh	0	--	0	0
Deliveries (public use and losses)	.05	--	.01	.06
Per capita use	110	--	88	<sup>1</sup> 106
<b>Livestock</b>				
Withdrawals, ground-water, fresh	0.35	0.40	0.29	1.04
Withdrawals, surface-water, fresh	.23	.27	.19	.69
Consumptive use	.58	.67	.48	1.73
<b>Irrigation</b>				
Withdrawals, ground-water, fresh	0	0	0.07	0.07
Withdrawals, surface-water, fresh	3.42	2.12	2.59	8.13
Number of acres irrigated by sprinkler methods	390	320	510	1,220
Number of acres irrigated by gravity/surface methods	660	500	860	2,020
Conveyance losses	.07	.05	.09	.21
Consumptive use	3.08	1.91	2.39	7.38
<b>Sewage treatment</b>				
Number of facilities	6	1	2	9
Returns from municipal systems	.03	0	0	.03
Reclaimed wastewater from public wastewater facility	0	0	0	0
<b>Commercial</b>				
Total withdrawals and deliveries	0.01	--	--	.01
Consumptive use	0	--	--	0

<sup>1</sup>Value derived by dividing total withdrawals by total population.

## Bibliographic Information

Records of stream discharge were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." These water-supply papers were published annually through September 30, 1960, and then in a multiyear series for 1961-65 and 1966-70. Records of chemical quality, water temperature, and suspended sediment were published annually from 1941 to 1970 in a series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published annually from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Beginning with the 1971 water year and continuing to the present (1995), streamflow, surface-water quality, ground-water quality, and ground-water level data for North Dakota have been published annually in a publications series entitled "U.S. Geological Survey Water Resources Data Reports." Almost all data collected through the water-resources data program are stored in the NWIS. Data for a few sites may have been missed, however, when the data were first transformed from hard copy to electronic storage. Data stored in the NWIS can be retrieved in machine-readable format or as computer-printed tables or graphs. Those data also can be retrieved in the form of statistical summaries and various types of plots.

Water-resources data and other information for the Cannonball River Basin also can be obtained from the following U.S. Geological Survey publications:

Armstrong, C.A., 1982, Evaluation of the hydrologic system in the New Leipzig coal area, Grant and Hettinger Counties, North Dakota: U.S. Geological Survey Open-File Report 82-698, 41 p.

Armstrong, C.A., 1984, Evaluation of the hydrologic system and potential effects of mining in the Dickinson lignite area, eastern Slope and western Stark and Hettinger Counties, North Dakota: U.S. Geological Survey Water-Resources Investigations Report 84-4194, 35 p.

Calvert, W.R., Beekly, A.L., Barnett, V.H., and Pishel, M.A., 1914, Geology of the Standing Rock and Cheyenne River Indian Reservations, North and South Dakota: U.S. Geological Survey Bulletin 575, 49 p.

Colby, B.R., and Oltman, R.E., 1948, Discharge and runoff in the Missouri River Basin: U.S. Geological Survey Circular 37, 11 p.

Crosby, O.A., 1975, Magnitude and frequency of floods in small drainage basins in North Dakota: U.S. Geological Survey Water-Resources Investigations 19-75, 24 p.

Howells, Lewis, 1982, Geohydrology of the Standing Rock Indian Reservation, North and South Dakota: U.S. Geological Survey Hydrologic Investigations Atlas HA-644, 5 sheets.

Lloyd, R.E., 1914, The Cannonball River lignite field, Morton, Adams, and Hettinger Counties, North Dakota: U.S. Geological Survey Bulletin 541, p. 243-291.

Oltman, R.E., and Tracy, H.J., 1951, Trends in climate and in precipitation-runoff relation in Missouri River Basin: U.S. Geological Survey Circular 98, 113 p.

Wesolowski, E.A., 1990, North Dakota: Water supply and use, *in* National Water Summary 1987--Hydrologic events and water supply and use: U.S. Geological Survey Water-Supply Paper 2350, p. 401-408.

Wesolowski, E.A., 1991, Estimated use of water in North Dakota in 1985 and trends during 1960-85: U.S. Geological Survey Water-Resources Investigations Report 89-4003, 1 sheet.

## **STATISTICAL AND DESCRIPTIVE SUMMARIES OF WATER-RESOURCES DATA AND OTHER INFORMATION FROM OTHER FEDERAL, STATE, AND TRIBAL AGENCIES**

This section consists of water-resources data and other information obtained from agencies that were cooperating in the CRBWM study. The data and information were summarized and compiled in various formats, depending on the nature of the data and information.

The stream and location, period of record, and sampling frequency are shown in most tables in this section. Unless otherwise specified, the latitude and longitude shown for each site were generated for location purposes only and represent the approximate sampling location.

The physical properties heading is used in the tables if data consist of values for temperature, pH, specific conductance, etc. The major ions heading is used if data consist of values for major cations and anions, including nutrients, unless otherwise specified, in solution. The nutrients heading is used if data consist of values for nitrates and phosphates. The metals heading is used if data consist of values for trace metals, including the more common metals, such as iron and manganese, unless otherwise specified. The pesticides heading is used if data consist of insecticide and herbicide values. The microbiological heading is used if data consist of coliform values. The biological heading is used if data consist of values for coliform, algae, biomass, etc. The sediment heading is used if data consist of suspended-sediment and bed-material values.

### **Bureau of Reclamation**

The Dakota Areas Office of the Bureau of Reclamation has on file unpublished documents that may be of interest to water-resource planners. Data given in these documents were collected as part of the Bureau's water-resource development studies in the Cannonball River Basin. Ground-water levels that were measured in connection with the drilling and augering of holes for soils and drainage studies also are available.

Water-resources data and other information on the Cannonball River Basin also can be obtained from the following Bureau of Reclamation publications:

Appraisal report on western Dakota basins study, Missouri River Basin Project, Bismarck, North Dakota, March 1975.

Cannonball River Basin streamflow depletion analysis, North/South Dakota, Missouri Basin States Association, September 1984.

Drill hole logs and auger hole permeability tests, Cannonball Division, Missouri River Basin Project, Bismarck, North Dakota, 1962.

Quality of water study, Cannonball Division, Missouri River Basin Project, Bismarck, North Dakota, January 1950.

Reconnaissance report on Cannonball River Basin, Cannonball Division, Missouri River Basin Project, Bismarck, North Dakota, September 1940.

Review report on flood control, Cannonball River and tributaries, North and South Dakota, Cannonball Division, Missouri River Basin Project, Bismarck, North Dakota, December 1954.

Supporting data to reconnaissance report on Cannonball River Basin, Cannonball Division, Missouri River Basin Project, Bismarck, North Dakota, 1940.

Tailwater study for Mott Dam, Mott Unit (extended), Cannonball Division, Missouri River Basin Project, Bismarck, North Dakota, March 1965.

Water supply study for Cannonball Division, Missouri River Basin Project, Bismarck, North Dakota, March 1953.

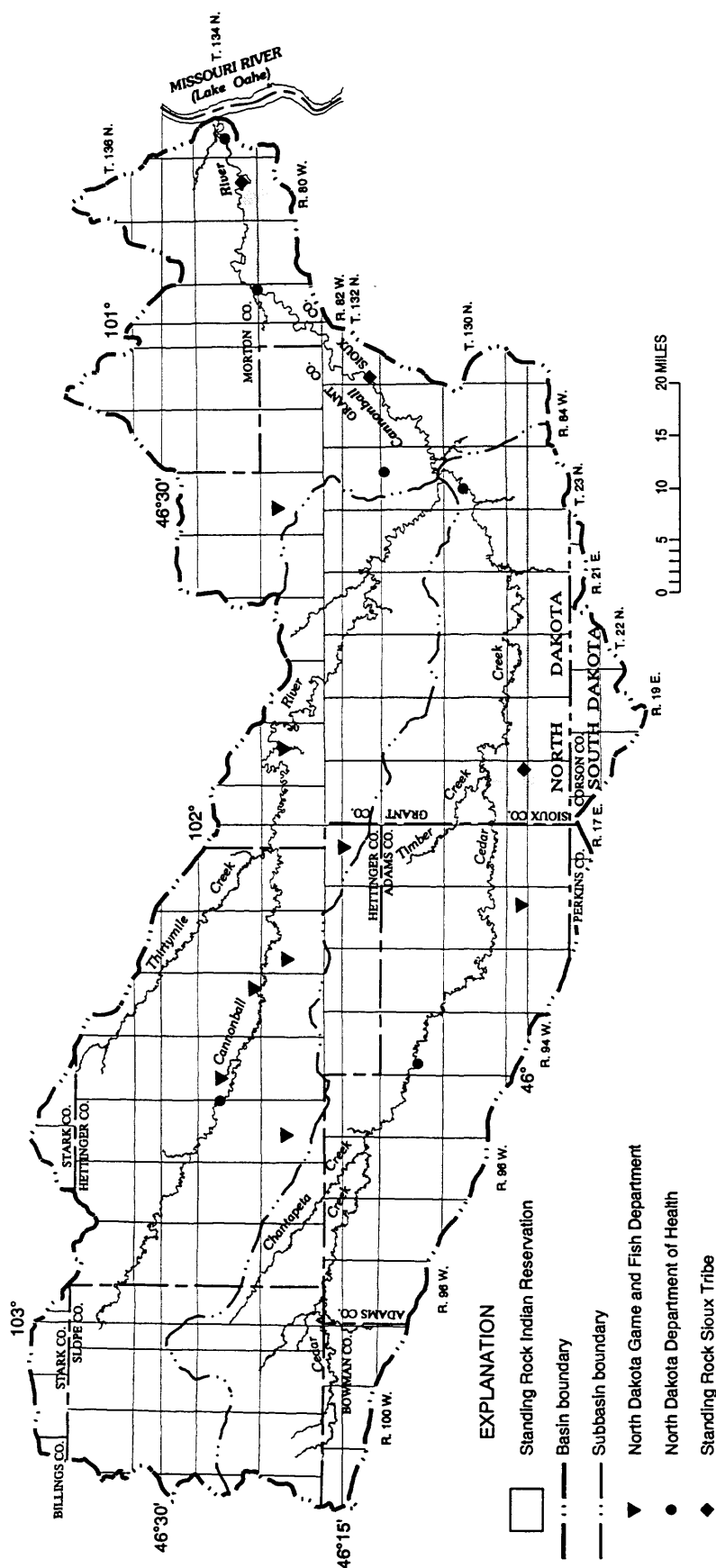
## North Dakota Game and Fish Department

The North Dakota Game and Fish Department collects physical-property data on selected lakes and reservoirs in the Cannonball River Basin (fig. 6) as part of its fish netting program. Physical-property data collected before the 1980's included dissolved oxygen and possibly temperature. Physical-property data collected since the 1980's include dissolved oxygen and temperature and may include pH and specific conductance. The stream and location, period of record, and sampling frequency for data-collection sites monitored by the North Dakota Game and Fish Department are shown in the following table:

### Data-collection sites monitored by the North Dakota Game and Fish Department

[Physical properties were sampled once seasonally; the latitude and longitude shown for each site were generated for location purposes only and represent the approximate sampling location]

Location	Period of record	Sampling frequency for physical properties
Blickenderfer Dam, Hettinger County, T. 133 N., R. 92 W., sec. 39 (lat. 46°20'10", long. 102°16'06")	1979-80, 82, 85, 88 1977-80, 85-86, 89	Summer Winter
Castle Rock Dam, Hettinger County, T. 133 N., R. 93 W., sec. 17 (lat. 46°20'10", long. 102°16'06")	1979-81, 85, 89 1971-75, 77-80, 85-86, 89	Summer Winter
Indian Creek, Hettinger County, T. 133 N., R. 95 W., sec. 16 (lat. 46°20'09", long. 102°37'06")	1980-85, 88, 91 1980, 82, 86, 89	Summer Winter
Kilzer Dam, Hettinger County, T. 132 N., R. 91 W., sec. 15 (lat. 46°15'28", long. 102°02'45")	1982 1982	Summer Winter
Larsen Lake, Hettinger County, T. 134 N., R. 94 W., secs. 17 and 18 (lat. 46°25'35", long. 102°30'24")	1979-80, 85, 90 1950-56, 59-62, 66-80, 82, 86	Summer Winter
Mott Dam, Hettinger County, T. 134 N., R. 93 W., secs. 26 and 35 (lat. 46°22'50", long. 102°19'37")	1979-82, 85 1971-74, 77-80, 82, 85, 86, 89, 91	Summer Winter
North Lemmon Lake, Adams County, T. 129 N., R. 92 W., secs. 10 and 11 (lat. 46°00'46", long. 102°09'36")	1980-82, 84-85, 88-91 1952-62, 64-73, 75, 77-80, 84, 89	Summer Winter
Raleigh Reservoir, Grant County, T. 133 N., R. 85 W., sec. 9 (lat. 46°20'56", long. 101°22'13")	1979-82, 85, 92 1952-54, 56-60, 63-74, 77-80, 82	Summer Winter
Sheep Creek Dam, Grant County, T. 133 N., R. 89 W., secs. 15 and 22 (lat. 46°20'29", long. 101°50'58")	1979-83, 84-85, 89, 91 1973-74, 77-79, 82, 89, 91, 92	Summer Winter



**Figure 6.** Location of surface-water data-collection sites monitored by the North Dakota Game and Fish Department, the North Dakota Department of Health, or the Standing Rock Sioux Tribe.



## North Dakota Department of Health

Since 1975, the North Dakota Department of Health has operated an ongoing water-quality network of surface-water data-collection sites in the Cannonball River Basin (fig. 6). Samples are collected seasonally (in the spring), quarterly, or periodically and analyzed for selected physical properties and constituents. The stream and location, period of record, and category for which samples were analyzed or sampling frequency for data-collection sites monitored by the North Dakota Department of Health are shown in the following table:

### Data-collection sites monitored by the North Dakota Department of Health

[USGS, U.S. Geological Survey; X, sampled for one or more representative physical properties or constituents in category; --, no data; the latitude and longitude shown for each site were generated for location purposes only and represent the approximate sampling location; Q, sampled quarterly; P, sampled periodically; S, sampled in the spring]

Stream and location	Period of record	Category for which samples were analyzed or sampling frequency					
		Physical properties	Major ions	Metals	Pesticides	Biological	Sediment
Cannonball River at Breien, North Dakota (USGS site number 06354000) <sup>1</sup>	1975-93	X	X	X	--	X	X
Cannonball River at Highway 1806 bridge Storet number 380104 (lat. 46°24'55", long. 100°38'05")	1990-92	Q	Q	Q	P	Q	--
Cannonball River at Highway 31 bridge Storet number 380077 (lat. 46°05'30", long. 101°20'00")	1990-92	Q	Q	Q	P	Q	--
Cannonball River at Regent, North Dakota (USGS site number 06350000) <sup>1</sup>	1975-93	X	X	X	--	X	X
Cedar Creek at Highway 31 bridge Storet number 380105 (lat. 46°11'60", long. 101°18'00")	1975-92	S	S	S	--	S	--
Cedar Creek near Haynes, North Dakota (USGS site number 06352000) <sup>1</sup>	1975-93	X	X	X	--	--	--
Cedar Creek near Raleigh, North Dakota (USGS site number 06353000) <sup>1</sup>	1975-93	X	X	X	--	--	--

<sup>1</sup>Surface-water data-collection site that is also monitored by the U.S. Geological Survey.

Some of the surface-water data-collection sites are monitored by both the North Dakota Department of Health and the U.S. Geological Survey. However, no attempt was made to determine which physical properties and constituents were analyzed for by the U.S. Geological Survey and which were analyzed for by the North Dakota Department of Health. Therefore, rather than showing a sampling frequency for sites monitored by both agencies, an X is shown to indicate that the site was sampled for one or more representative physical properties or constituents in that category. For sites monitored only by the North Dakota Department of Health, a sampling frequency is shown. Water-quality data for sites monitored by both agencies are summarized in table 1, but the statistical summaries for these sites do not include data for physical properties and constituents analyzed for by the North Dakota Department of Health because North Dakota Department of Health data are not stored in the NWIS.

The North Dakota Department of Health archive ground-water data base contains data on water samples collected between 1948 and 1986. These data were not subject to the quality assurance protocol that began in 1986 and are not included in the table. Data and other information available in the data base include major-ion values, well owner, and well and aquifer description. Data also may be available through the Division of Municipal Facilities' drinking-water program and from communities that have been required to have their public water supplies tested periodically.

Water-resources data and other information for the Cannonball River Basin also can be obtained from the following North Dakota Department of Health publications:

North Dakota State Department of Health, 1980, Chemical analysis of public water supplies in North Dakota.

North Dakota State Department of Health and Consolidated Laboratories, 1988, The status of water quality in the state of North Dakota, 1986-87.

North Dakota State Department of Health and Consolidated Laboratories, 1992, North Dakota water-quality assessment, 1990-91.

### **North Dakota Parks and Recreation Department**

Water-resources data and other information available from the North Dakota Parks and Recreation Department are included in the following publications:

North Dakota Parks and Recreation Department, December 1987, North Dakota rivers study.

North Dakota Parks and Recreation Department, 1990, North Dakota outdoor recreation plan, 1991-95.

Issues such as (1) access to and development of rivers, (2) unstable water quality and quantity, and (3) preservation of rivers are addressed in the "North Dakota Outdoor Recreation Plan, 1991-95." Geologic/hydrologic features of the Cannonball River and Cedar Creek, botanical resources, zoological resources, unique ecological communities, historic/prehistoric sites, sport fishing, recreational resources, water quality, forest resources, and breeding of waterfowl and white-tail deer are evaluated in the "North Dakota Rivers Study," Section V, "River Related Natural, Cultural, and Recreational Values."

### **North Dakota State Water Commission**

The North Dakota State Water Commission supports the statewide operation of streamflow gages and the monitoring of ground-water wells both independently and in cooperation with the U.S. Geological Survey. The ground-water well monitoring program began as part of the county ground-water investigations program.

Ground-water resources investigations of all counties within the Cannonball River Basin were completed during the 1970's and 1980's. The investigations were made by the U.S. Geological Survey in cooperation with the North Dakota State Water Commission, the North Dakota Geological Survey, and respective county water management agencies. Results of each of five investigations were published by the North Dakota State Water Commission in a three-part series of reports. Part I is an interpretive report

describing the geology of the study area, part II is a compilation of the geologic and hydrologic data collected during the investigation, and part III is an interpretive report describing ground-water resources of the study area.

The ongoing water-resources data-collection program includes ground-water sites in the Cannonball River Basin. The locations of these sites are shown in figure 7. Ground-water level data for 19 sites are summarized in table 8, and ground-water quality data for 368 sites are summarized in table 9. The period of record and category for which samples were analyzed are shown for the 368 sites. Data for some of the sites also may be included in tables 4 through 7, but no attempt was made to eliminate duplicate data. Rather, all data provided by the North Dakota State Water Commission were summarized in tables 8 and 9.

Water-resources data and other information for the Cannonball River Basin also can be obtained from the following North Dakota State Water Commission publications:

Chemical analysis of surface water of Cannonball River Basin, North Dakota, 1945-49, 1945-50, 1945-51: U.S. Department of the Interior, U.S. Geological Survey.

Low flow frequency curves Cannonball River Basin, 1962: U.S. Department of the Interior, U.S. Geological Survey.

Ackerman, D.J., 1977, Ground-water basic data for Morton County, North Dakota: North Dakota State Water Commission County Ground-Water Studies 27, pt. II, and North Dakota Geological Survey Bulletin 72, pt. II, 592 p.

Ackerman, D.J., 1980, Ground-water resources of Morton County, North Dakota: North Dakota State Water Commission County Ground-Water Studies 27, pt. III, and North Dakota Geological Survey Bulletin 72, pt. III, 51 p.

Anna, L.O., 1980, Ground-water data for Billings, Golden Valley, and Slope Counties, North Dakota: North Dakota State Water Commission County Ground-Water Studies 29, pt. II, and North Dakota Geological Survey Bulletin 76, pt. II, 241 p.

Anna, L.O., 1981, Ground-water resources of Billings, Golden Valley, and Slope Counties, North Dakota: North Dakota State Water Commission County Ground-Water Studies 29, pt. III, and North Dakota Geological Survey Bulletin 76, pt. III, 56 p.

Bader, C.D., 1987, Trends in water use and estimated water use for North Dakota, 1985: North Dakota State Water Commission Information Series No. 34, 12 p.

Carlson, C.G., 1979, Geology of Adams and Bowman Counties, North Dakota: North Dakota Geological Survey Bulletin 65, pt. I, and North Dakota State Water Commission County Groundwater Studies 22, pt. I, 29 p.

Carlson, C.G., 1982, Geology of Grant and Sioux Counties, North Dakota: North Dakota Geological Survey Bulletin 67, pt. I, and North Dakota State Water Commission County Groundwater Studies 24, pt. I, 32 p.

Carlson, C.G., 1983, Geology of Billings, Golden Valley, and Slope Counties, North Dakota: North Dakota Geological Survey Bulletin 76, pt. I, and North Dakota State Water Commission County Groundwater Studies 29, pt. I, 40 p.

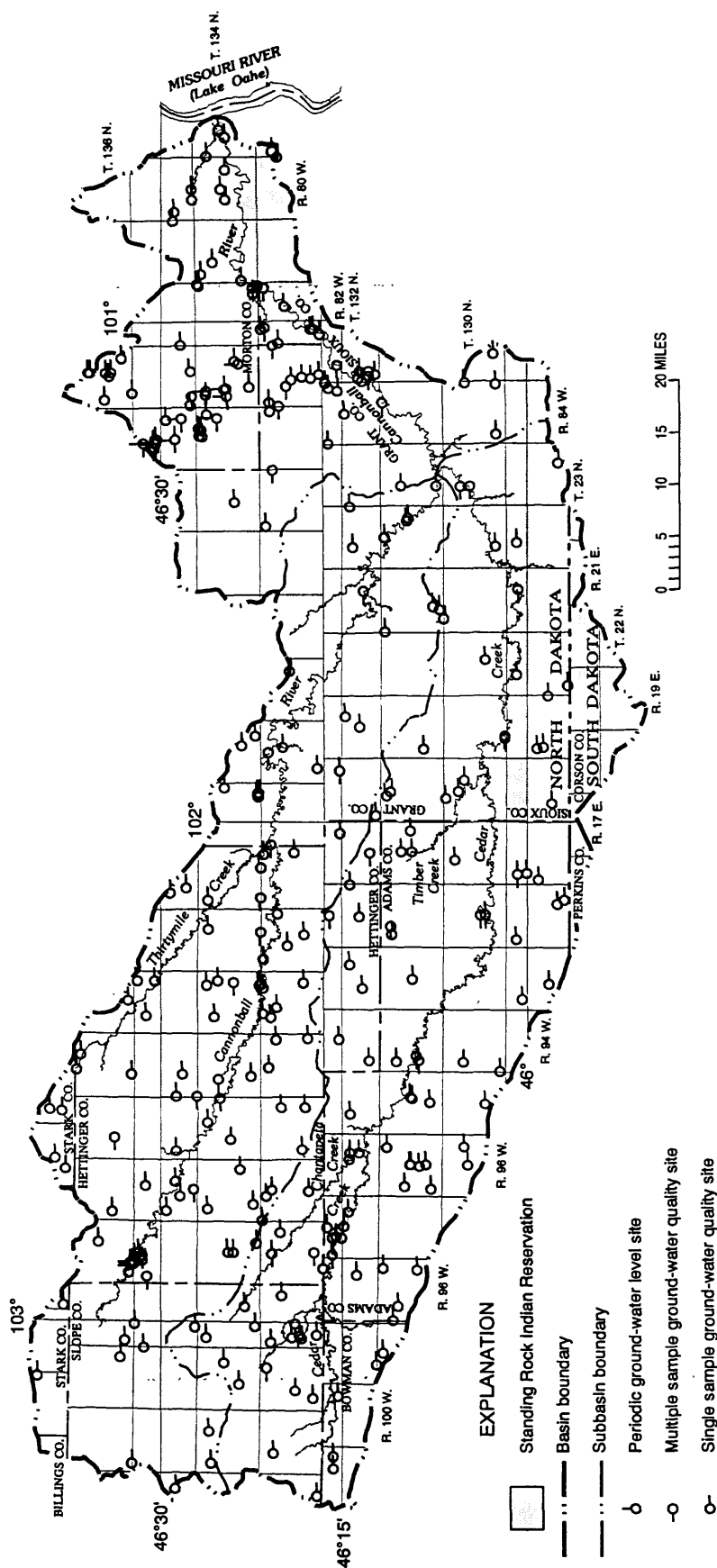


Figure 7. Location of ground-water data-collection sites monitored by the North Dakota State Water Commission.

Carlson, C.G., 1983, Geology of Morton County, North Dakota: North Dakota Geological Survey Bulletin 72, pt. I, and North Dakota State Water Commission County Groundwater Studies 27, pt. I, 37 p.

Croft, M.G., 1974, Ground-water basic data for Adams and Bowman Counties, North Dakota: North Dakota State Water Commission County Ground-Water Studies 22, pt. II, and North Dakota Geological Survey Bulletin 65, pt. II, 294 p.

Croft, M.G., 1978, Ground-water resources of Adams and Bowman Counties, North Dakota: North Dakota State Water Commission County Ground-Water Studies 22, pt. III, and North Dakota Geological Survey Bulletin 65, pt. III, 54 p.

North Dakota State Water Commission, 1934, Cannonball, Grand, and Moreau Rivers, North Dakota and South Dakota.

North Dakota State Water Commission, 1972, Cannonball River Basin plan and appendix.

North Dakota State Water Commission, 1975, West River study: An analysis of alternatives for developing and managing the West River area's water and related land resources.

North Dakota State Water Commission, 1983, 1983 State water plan.

North Dakota State Water Commission, 1992, 1992 North Dakota State water management plan.

North Dakota State Water Conservation Commission, March 1966, Drainage area data for Cannonball River Basin.

Patch, J.C., and Haffield, N.D., 1982, Estimated use of water for North Dakota: North Dakota State Water Commission Information Series No. 33, 1 p.

Randich, P.G., 1975, Ground-water basic data for Grant and Sioux Counties, North Dakota: North Dakota State Water Commission County Ground-Water Studies 24, pt. II, and North Dakota Geological Survey Bulletin 67, pt. II, 303 p.

Randich, P.G., 1979, Ground-water resources of Grant and Sioux Counties, North Dakota: North Dakota State Water Commission County Ground-Water Studies 24, pt. III, and North Dakota Geological Survey Bulletin 67, pt. III, 49 p.

Ripley, David, 1990, An overview of North Dakota's water resources, *in* Proceedings, North Dakota Water Quality Symposium, Fargo, North Dakota, March 20-21, 1990: North Dakota State University Extension Service, p. 1.

Smith, M.L., and Harkness, R.E., 1982, Water use in North Dakota, 1980: North Dakota State Water Commission Information Series No. 31, 1 p.

Trapp, Henry, Jr., 1971, Ground water basic data, Hettinger and Stark Counties, North Dakota: North Dakota State Water Commission County Ground Water Studies 16, pt. II, 455 p.

Trapp, Henry, Jr., and Croft, M.G., 1975, Geology and ground-water resources of Hettinger and Stark Counties, North Dakota: North Dakota State Water Commission County Ground-Water Studies 16, pt. I, 51 p.

In addition to these publications, data and other information can be obtained from the following unpublished reports on file at the North Dakota State Water Commission:

Adams County road drainage, Project number 1000  
Adams County small projects, Project number 1263  
Adams County Water Management District, Project number 701  
Adams-Bowman Counties ground-water survey, Project number 940  
Cedar River flow control problem (Adams, Bowman, Hettinger, and Slope Counties),  
Project number 939  
Duck Creek watershed, Adams County, Project number 837  
North Lemmin Lake Dam, Adams County, Project number 543  
Wolf Butte Dam, Adams County, Project number 359  
Billings County drainage general, Project number 1578  
Billings County road drainage, Project number 1003  
Billings County Water Management District, Project number 1555  
Billings, Golden Valley, and Slope Counties ground-water study, Project number 942  
Bowman County drainage general, Project number 1580  
Bowman County road drainage, Project number 1005  
Bowman County small projects, Project number 1268  
Bowman County Water Management District, Project number 821  
Cannonball and Cedar River development (Grant, Hettinger, Morton, and Sioux Counties),  
Project number 262  
Grant County road drainage, Project number 1018  
Grant County small project, Project number 1281  
Grant County Water Management District, Project number 708  
Grant and Sioux Counties ground-water survey, Project number 951  
Louse Creek watershed, Grant County, Project number 840  
New Raleigh Dam, Grant County, Project number 507-2  
Raleigh Dam, Grant County, Project number 507-1  
Sheep Creek Dam, Grant County, Project number 1358  
Tietz Dam, Grant County, Project number 577  
Hettinger County road drainage, Project number 1020  
Hettinger County small projects, Project number 1283  
Hettinger County Water Management District, Project number 1426  
Hettinger and Stark Counties ground-water survey, Project number 953  
Indian Creek Dam, Hettinger County, Project number 1556  
Karey Dam, Hettinger County, Project number 1453  
Mott Dam and flood control, Hettinger County, Project number 249  
Mott watershed, Hettinger County, Project number 1457  
New England ground-water survey, Project number 787  
Regent Dam, Hettinger County, Project number 350  
Squaw Creek Dam, Hettinger County, Project number 417  
Thirty Mile Creek Basin, Hettinger County, Project number 1497  
Flasher critical area treatment, Morton County, Project number 1778  
Flasher Dam, Morton County, Project number 1292  
Flasher ground-water survey, Morton County, Project number 755  
Morton County ground-water survey, Project number 960  
Morton County road drainage, Project number 1029  
Morton County small projects, Project number 1292  
Morton County Water Management District, Project number 944

Selfridge West Dam, Sioux County, Project number 1305-1  
 SI's Dam, Sioux County, Project number 1305-2  
 Sioux County road drainage, Project number 1042  
 Sioux County small projects, Project number 1305  
 Sioux County Water Management District, Project number 718  
 Cedar Dam, Slope County, Project number 353  
 Slope County drainage general, Project number 718  
 Slope County road drainage, Project number 1043  
 Slope County small projects, Project number 1306  
 Slope County Water Management District, Project number 1575  
 Stark County road drainage, Project number 1044  
 Stark County small projects, Project number 1307  
 Stark County Water Management District, Project number 1429

## Standing Rock Sioux Tribe

The Department of Water and Natural Resources of the Standing Rock Sioux Tribe has a "water users data base," which is contained in dBase files. Data were included for 2,034 data-collection sites--1,146 in Sioux County, North Dakota, and 888 in Corson County, South Dakota. Much of the data, which were obtained from Federal, State, local, and tribal agencies, are shown in this report. The categories for which data are stored are shown in the following table:

Category for which data are stored		
Acreage	Notes	Stream
Appropriation date	Owner's address	Structure amount
Basin number	Owner's name <sup>1</sup>	Structure name <sup>1</sup>
Casing type	Power source	Structure owner
Construction date	Principal meridian	Structure type <sup>1</sup>
County <sup>1</sup>	Priority date	Structure use
Dam height	Quadrangle name	Surface area
Depth to water <sup>1</sup>	Range <sup>1</sup>	Township <sup>1</sup>
Drill date <sup>1</sup>	Reservoir storage (active)	Use <sup>1</sup>
East/west coordinate	Reservoir storage (total)	Well depth <sup>1</sup>
Formation	Section <sup>1</sup>	Well diameter <sup>1</sup>
Hazard classification	Standing Rock Sioux Tribe permit number	Well number
North coordinate	State designation	Yield

<sup>1</sup>Likely to have data.

Information regarding a specific category can be obtained by contacting the Department of Water and Natural Resources.

The Indian Health Service in Aberdeen, S. Dak., provided well-log data for private wells. Information given on the well logs varies, but the most complete well logs include the well owner; the driller's log of the borehole; well-construction information; pump information; test-pump data, including the static water level; and a water analysis to determine if the water is safe for use. Because the well locations and well identifiers or both were inconsistent or nonexistent, no attempt was made to list these wells.

The U.S. Environmental Protection Agency has approved a water-quality assurance plan, including extensive surface-water sampling for the Reservation. Work has been started to develop a ground-water monitoring network throughout the Reservation.

The Department of Water and Natural Resources has begun a water-quality sampling program for three data-collection sites. The period of record and sampling frequencies for the three sites are shown in the following table:

**Data-collection sites monitored by the Standing Rock Sioux Tribe**

[The latitude and longitude shown for each site were generated for location purposes only and represent the approximate sampling location; P, sampled periodically]

Stream and location	Period of record	Sampling frequency				
		Physical properties	Major ions	Nutrients	Metals	Micro-biological
Cannonball River, Sioux County, T. 132 N., R. 83 W., sec. 31, south of bridge (lat. 46°13'08", long. 101°06'43")	1994	P	P	P	P	P
Cannonball River, Sioux County, T. 134 N., R. 80 W., sec. 26, north of train grade (lat. 46°23'35", long. 100°43'17")	1994	P	P	P	P	P
Leaf on the Hill Creek, Sioux County, T. 130 N., R. 84 W., sec. 27, north of bridge (lat. 46°00'31", long. 101°53'27")	1994	P	P	P	P	P

Water-resources data and other information on the Cannonball River Basin also can be obtained from the following publications:

Morrison-Maierle, Inc., 1977, Water resources evaluation, Phase I, Standing Rock Indian Reservation, North and South Dakota, for U.S. Bureau of Indian Affairs, Aberdeen, South Dakota.

Morrison-Maierle, Inc., 1977, Water resources evaluation, Phase II, Standing Rock Indian Reservation, North and South Dakota, for U.S. Bureau of Indian Affairs, Aberdeen, South Dakota, revised March 1979.

Morrison-Maierle, Inc., 1979, Missouri River Basin water supply and water requirements, for United Sioux Indian Tribes, Pierre, South Dakota.

Morrison-Maierle, Inc., 1980, Water resources evaluation, Phase III, Standing Rock Indian Reservation, North and South Dakota, for U.S. Bureau of Indian Affairs, Aberdeen, South Dakota, revised March 1981.

Native American Natural Resources Development Federation, Standing Rock Sioux inventory, North and South Dakota, 1980.

Standing Rock Sioux Tribe assistance from Technical Resource Corporation standards and criteria, Garrison Diversion Unit authorization for irrigation of 2,380 acres (PL 99-294), November 29, 1988, revised December 21, 1988.

Wright Water Engineers, Inc., 1993, Interim report of irrigable lands adjacent to Lake Oahe and in the Cannonball Basin, for the Standing Rock Sioux Tribe, Fort Yates, North Dakota.



**Table 1.** Summary of surface-water quality and daily streamflow data obtained from the U.S. Geological Survey for sites where multiple water-quality samples were collected

[Certain properties or constituents may be listed more than once; however, no distinction is made between field and laboratory values]

### **Abbreviations and symbols**

ft, feet  
ft<sup>3</sup>/s, cubic feet per second  
g/kg, grams per kilogram  
JCU, Jackson candle unit  
LSD, land surface datum  
mg/L, milligrams per liter  
mi, mile  
mi<sup>2</sup>, square miles  
mL, milliliter  
mm, millimeter  
NGVD, National Geodetic Vertical Datum  
NTU, nephelometric turbidity unit  
pCi/L, picocurie per liter  
μg/g, micrograms per gram  
μg/L, micrograms per liter  
μm, micrometer  
μS/cm, microsiemens per centimeter at 25 degrees Celsius  
--, no data

06349900 Cannonball River at New England, North Dakota

LOCATION.--Lat. 46°32'35", long. 102°53'16", in SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec. 32, T. 136 N., R. 97 W., Hettinger County, Hydrologic Unit 10130204, on left bank 70 ft upstream from bridge on county road, 1.0 mi west of New England, 0.3 mi above Coon Creek, and 17 mi below confluence of North Fork Cannonball River and Philbrick Creek.

DRAINAGE AREA.--285 mi<sup>2</sup>, approximately.

Summary of water-quality data collected at periodic intervals, October 1978 through September 1981

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	43	29.00	0.00	9.47	8.81	18.00	9.50	1.00
Temperature, air (degrees Celsius)	42	75.00	-20.00	9.80	16.57	17.00	9.50	-2.00
Length of exposure (days)	9	44.00	20.00	31.11	8.95	34.00	34.00	22.00
Agency collecting sample (code number)	36	1028.00	1028.00	1028.00	0.00	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	72	80020.00	80010.00	80010.14	1.18	80010.00	80010.00	80010.00
Discharge, instantaneous (cubic feet per second)	43	1090.00	0.01	38.06	170.22	0.95	0.11	0.06
Color (platinum cobalt scale)	2	24.00	6.50	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	39	4240.00	405.00	2448.00	891.48	2900.00	2480.00	2000.00
Oxygen, dissolved (mg/L)	36	14.80	6.40	9.96	2.17	11.70	9.80	8.30
Oxygen, dissolved (percent saturation)	36	185.00	48.00	95.39	28.15	109.00	97.00	76.50
pH, water, whole, field (standard units)	39	8.60	7.30	8.14	0.29	8.40	8.20	7.90
pH, water, whole, laboratory (standard units)	12	8.30	6.80	7.95	0.41	8.20	8.10	7.80
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	26	26.00	1.00	8.12	7.35	13.00	4.95	3.20
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	24	680.00	66.00	451.54	149.12	535.00	460.50	420.00
Alkalinity, carbonate (mg/L as CaCO <sub>3</sub> )	13	550.00	290.00	431.23	80.75	480.00	449.00	360.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	26	824.00	81.00	547.92	174.70	650.00	554.50	503.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	25	24.00	0.00	3.53	6.80	4.00	0.00	0.00
Biomass, periphyton ash weight (grams per square meter)	9	126.00	1.10	20.54	39.88	12.60	6.22	4.88
Biomass, periphyton dry weight total (grams per square meter)	9	140.00	2.20	23.86	44.01	15.40	8.03	5.75
Nitrogen, total (mg/L as N)	24	2.94	0.65	1.35	0.70	1.50	1.01	0.91
Nitrogen, dissolved (mg/L as N)	3	0.95	0.85	--	--	--	--	--
Nitrogen, organic, total (mg/L as N)	28	2.37	0.58	1.03	0.40	1.19	0.91	0.76
Nitrogen, organic, dissolved (mg/L as N)	1	0.00	0.00	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.94	0.94	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as N)	26	0.28	0.00	0.10	0.09	0.19	0.06	0.03
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	3	0.94	0.77	--	--	--	--	--
Nitrogen, ammonia plus organic, suspended, total (mg/L as N)	3	0.43	0.14	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	28	2.60	0.58	1.12	0.43	1.30	1.00	0.87
Nitrogen, nitrite plus nitrate, total (mg/L as N)	23	2.00	0.00	0.22	0.46	0.15	0.03	0.01
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	15	0.58	0.00	0.06	0.15	0.04	0.01	0.00
Phosphate, total (mg/L as PO <sub>4</sub> )	2	0.12	0.03	--	--	--	--	--
Phosphorus, total (mg/L as P)	27	0.42	0.01	0.07	0.08	0.07	0.05	0.04

## 06349900 Cannonball River at New England, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1978 through September 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Phosphorus, dissolved (mg/L as P)	27	0.16	0.00	0.03	0.03	0.03	0.02	0.01
Carbon, organic, dissolved (mg/L as C)	27	66.00	7.50	19.07	11.27	23.00	17.00	13.00
Carbon, organic, suspended, total (mg/L as C)	23	9.70	0.20	1.24	1.95	1.20	0.50	0.40
Cyanide, total (mg/L as Cn)	2	0.00	0.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	36	1165.93	91.88	525.30	231.14	655.13	497.79	366.89
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	34	520.00	0.00	122.50	143.49	190.00	72.00	0.00
Calcium, dissolved (mg/L as Ca)	36	170.00	17.00	86.75	32.43	110.00	91.00	60.50
Magnesium, dissolved (mg/L as Mg)	36	180.00	12.00	74.89	37.27	93.00	67.00	48.50
Sodium, dissolved (mg/L as Na)	36	810.00	45.00	415.50	177.76	485.00	420.00	345.00
Sodium adsorption ratio	36	12.25	1.89	7.71	2.25	8.73	8.13	7.19
Sodium (percent)	36	71.23	41.05	61.72	6.29	65.41	62.43	59.81
Sodium plus potassium, dissolved (mg/L as Na)	9	510.00	430.00	476.67	26.93	490.00	480.00	460.00
Potassium, dissolved (mg/L as K)	36	15.00	0.50	9.78	2.56	11.00	9.95	8.65
Chloride, dissolved (mg/L as Cl)	36	42.00	2.00	10.83	8.35	13.50	8.10	5.85
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	36	2200.00	120.00	952.22	482.39	1200.00	935.00	600.00
Fluoride, dissolved (mg/L as F)	36	0.70	0.10	0.38	0.14	0.45	0.40	0.30
Silica, dissolved (mg/L as SiO <sub>2</sub> )	36	11.00	2.70	6.96	2.45	9.00	6.80	5.15
Arsenic, dissolved (µg/L as As)	8	3.00	1.00	1.38	0.74	1.50	1.00	1.00
Arsenic, suspended, total (µg/L as As)	4	11.00	0.00	--	--	--	--	--
Arsenic, total (µg/L as As)	6	12.00	1.00	3.83	4.07	3.00	2.50	2.00
Arsenic, total in bottom material (µg/g as As)	5	130.00	28.00	77.60	46.03	100.00	100.00	30.00
Barium, dissolved (µg/L as Ba)	6	100.00	20.00	56.67	26.58	70.00	50.00	50.00
Barium, suspended, recoverable (µg/L as Ba)	6	400.00	0.00	100.00	167.33	200.00	0.00	0.00
Barium, total (µg/L as Ba)	5	500.00	0.00	160.00	207.36	200.00	100.00	0.00
Barium, total in bottom material (µg/g as Ba)	4	7600.00	100.00	--	--	--	--	--
Beryllium, dissolved (µg/L as Be)	2	10.00	10.00	--	--	--	--	--
Beryllium, suspended, recoverable (µg/L as Be)	3	0.00	0.00	--	--	--	--	--
Beryllium, total (µg/L as Be)	4	10.00	0.00	--	--	--	--	--
Beryllium, total in bottom material (µg/g as Be)	4	1.00	0.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	36	930.00	80.00	541.94	177.23	640.00	575.00	455.00
Cadmium, dissolved (µg/L as Cd)	2	6.00	0.00	--	--	--	--	--
Cadmium, suspended (µg/L as Cd)	2	0.00	0.00	--	--	--	--	--
Cadmium, total (µg/L as Cd)	2	0.00	0.00	--	--	--	--	--
Cadmium, total in bottom material (µg/g as Cd)	5	10.00	3.00	6.20	2.78	7.00	7.00	4.00
Chromium, total in bottom material (µg/g as Cr)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chromium, dissolved (µg/L as Cr)	5	60.00	0.00	20.00	23.45	20.00	10.00	10.00

## 06349900 Cannonball River at New England, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1978 through September 1981

Water-quality constituent	Sample size	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation		75	Median 50	25
Chromium, total ( $\mu\text{g/L}$ as Cr)	5	60.00	0.00	20.00	23.45		20.00	10.00	10.00
Cobalt, dissolved ( $\mu\text{g/L}$ as Co)	1	0.00	0.00	--	--		--	--	--
Cobalt, suspended ( $\mu\text{g/L}$ as Co)	2	0.00	0.00	--	--		--	--	--
Cobalt, total ( $\mu\text{g/L}$ as Co)	2	2.00	1.00	--	--		--	--	--
Cobalt, total in bottom material ( $\mu\text{g/g}$ as Co)	5	40.00	10.00	20.40	13.81		30.00	12.00	10.00
Copper, dissolved ( $\mu\text{g/L}$ as Cu)	6	35.00	0.00	12.33	14.25		23.00	7.50	1.00
Copper, suspended ( $\mu\text{g/L}$ as Cu)	5	170.00	0.00	35.00	75.48		3.00	2.00	0.00
Copper, total ( $\mu\text{g/L}$ as Cu)	6	180.00	1.00	34.00	71.61		11.00	5.00	2.00
Copper, total in bottom material ( $\mu\text{g/g}$ as Cu)	5	16.00	12.00	14.60	1.67		16.00	15.00	14.00
Iron, suspended ( $\mu\text{g/L}$ as Fe)	11	60000.00	340.00	6185.46	17852.26		1200.00	760.00	530.00
Iron, total ( $\mu\text{g/L}$ as Fe)	12	60000.00	390.00	5768.33	17082.06		1060.00	845.00	625.00
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	29	440.00	0.00	85.93	118.52		70.00	40.00	20.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	3	50.00	0.00	--	--		--	--	--
Lead, suspended ( $\mu\text{g/L}$ as Pb)	3	45.00	0.00	--	--		--	--	--
Lead, total ( $\mu\text{g/L}$ as Pb)	3	52.00	0.00	--	--		--	--	--
Lead, total in bottom material ( $\mu\text{g/g}$ as Pb)	2	20.00	12.00	--	--		--	--	--
Manganese, total in bottom material ( $\mu\text{g/g}$ as Mn)	5	2500.00	800.00	1428.00	675.96		1600.00	1300.00	940.00
Manganese, suspended ( $\mu\text{g/L}$ as Mn)	15	1200.00	0.00	164.00	297.56		200.00	70.00	20.00
Manganese, total ( $\mu\text{g/L}$ as Mn)	16	1200.00	160.00	401.88	239.14		445.00	390.00	255.00
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	18	530.00	3.00	252.39	149.35		400.00	200.00	170.00
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	2	28.00	3.00	--	--		--	--	--
Molybdenum, suspended ( $\mu\text{g/L}$ as Mo)	3	3.00	0.00	--	--		--	--	--
Molybdenum, total ( $\mu\text{g/L}$ as Mo)	4	6.00	1.00	--	--		--	--	--
Molybdenum, total in bottom material ( $\mu\text{g/g}$ as Mo)	4	4.00	0.00	--	--		--	--	--
Nickel, dissolved ( $\mu\text{g/L}$ as Ni)	7	6.00	3.00	3.86	1.22		5.00	3.00	3.00
Nickel, suspended ( $\mu\text{g/L}$ as Ni)	5	65.00	0.00	15.00	28.01		5.00	3.00	2.00
Nickel, total ( $\mu\text{g/L}$ as Ni)	6	68.00	3.00	17.67	24.90		13.00	8.50	5.00
Nickel, total in bottom material ( $\mu\text{g/g}$ as Ni)	4	40.00	10.00	--	--		--	--	--
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	6	1400.00	160.00	1026.67	456.36		1400.00	1100.00	1000.00
Strontium, suspended ( $\mu\text{g/L}$ as Sr)	3	160.00	0.00	--	--		--	--	--
Strontium, total ( $\mu\text{g/L}$ as Sr)	3	1100.00	320.00	--	--		--	--	--
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	1	1.20	1.20	--	--		--	--	--
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	4	30.00	8.00	--	--		--	--	--
Zinc, suspended ( $\mu\text{g/L}$ as Zn)	4	10.00	0.00	--	--		--	--	--
Zinc, total ( $\mu\text{g/L}$ as Zn)	5	350.00	20.00	92.00	144.81		50.00	20.00	20.00
Zinc, total in bottom material ( $\mu\text{g/g}$ as Zn)	5	43.00	22.00	31.80	8.14		34.00	34.00	26.00
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	5	80.00	10.00	30.00	29.16		30.00	20.00	10.00

## 06349900 Cannonball River at New England, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1978 through September 1981

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median	25
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	9	70.00	8.00	46.11	19.80	60.00	50.00	47.00
Lithium, suspended ( $\mu\text{g/L}$ as Li)	6	40.00	0.00	8.33	16.02	10.00	0.00	0.00
Lithium, total ( $\mu\text{g/L}$ as Li)	7	60.00	20.00	47.14	13.80	60.00	50.00	40.00
Selenium, dissolved ( $\mu\text{g/L}$ as Se)	7	2.00	0.00	0.71	0.76	1.00	1.00	0.00
Selenium, suspended ( $\mu\text{g/L}$ as Se)	5	2.00	0.00	0.40	0.89	0.00	0.00	0.00
Selenium, total ( $\mu\text{g/L}$ as Se)	5	3.00	0.00	1.00	1.23	1.00	1.00	0.00
Selenium, total in bottom material ( $\mu\text{g/g}$ as Se)	5	1.00	0.00	0.40	0.44	0.70	0.30	0.00
Iron, total in bottom material ( $\mu\text{g/g}$ as Fe)	1	10000.00	10000.00	--	--	--	--	--
Alpha, gross, dissolved (pCi/L as U natural)	1	29.00	29.00	--	--	--	--	--
Alpha, gross, suspended (pCi/L as U natural)	4	2.00	0.30	--	--	--	--	--
Beta, gross, dissolved (pCi/L as Cs-137)	3	22.00	12.00	--	--	--	--	--
Beta, gross, suspended (pCi/L as Cs-137)	5	2.90	1.20	1.84	0.80	2.50	1.30	1.30
Fecal coliform, 7 $\mu\text{m}$ -membrane filter (colonies/100 mL)	6	1100.00	70.00	431.67	362.57	480.00	390.00	160.00
Streptococci, fecal, membrane filter, KF agar (colonies/100 mL)	16	4500.00	38.00	964.56	1352.51	1080.00	470.00	72.50
Phenols, total ( $\mu\text{g/L}$ )	2	4.00	0.00	--	--	--	--	--
Heptachlor, suspended, total ( $\mu\text{g/L}$ )	2	398.00	90.00	--	--	--	--	--
Phytoplankton, total (cells/mL)	36	150000.00	110.00	14505.56	32943.27	6600.00	2850.00	1150.00
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	35	4070.00	281.00	1828.89	818.03	2160.00	1790.00	1290.00
Solids, sum of constituents, dissolved (mg/L)	32	3822.56	250.50	1861.89	779.03	2150.92	1813.53	1458.81
Solids, dissolved (tons per day)	36	826.98	0.03	37.16	140.36	5.16	0.54	0.23
Solids, dissolved (tons per acre-foot)	36	5.53	0.38	2.49	1.10	2.94	2.44	1.84
Sediment, suspended, fall diameter, distilled water, percent finer than .004 mm	2	94.00	50.00	--	--	--	--	--
Sediment, suspended, fall diameter, distilled water, percent finer than .016 mm	2	98.00	68.00	--	--	--	--	--
Sediment, suspended, fall diameter, distilled water, percent finer than .062 mm	2	100.00	85.00	--	--	--	--	--
Sediment, suspended, fall diameter, distilled water, percent finer than .125 mm	1	93.00	93.00	--	--	--	--	--
Sediment, suspended, fall diameter, distilled water, percent finer than .250 mm	1	100.00	100.00	--	--	--	--	--
Biomass-chlorophyll ratio, periphyton (units)	9	5789.47	149.23	1162.07	1774.41	1064.72	710.66	253.71
Chlorophyll a, periphyton, chromatographic-fluorometric (milligrams per square meter)	9	12.90	0.19	5.16	3.67	5.83	4.79	3.35
Chlorophyll b, periphyton, chromatographic-fluorometric (milligrams per square meter)	9	1.93	0.00	0.63	0.60	0.82	0.63	0.14
Nitrogen, ammonia, total (mg/L as $\text{NH}_4$ )	27	0.36	0.00	0.12	0.11	0.25	0.08	0.03
Phosphorus, total (mg/L as $\text{PO}_4$ )	21	0.49	0.03	0.16	0.11	0.18	0.15	0.12
Nitrogen, total (mg/L as $\text{NO}_3$ )	24	13.01	2.88	5.99	3.09	6.66	4.49	4.03
Mercury, dissolved ( $\mu\text{g/L}$ as Hg)	5	0.10	0.00	0.04	0.05	0.10	0.00	0.00
Mercury, suspended, recoverable ( $\mu\text{g/L}$ as Hg)	5	0.60	0.10	0.22	0.22	0.20	0.10	0.10
Mercury, total, recoverable ( $\mu\text{g/L}$ as Hg)	4	0.60	0.10	--	--	--	--	--
Mercury, recoverable from bottom material ( $\mu\text{g/g}$ as Hg)	5	0.40	0.02	0.11	0.16	0.05	0.04	0.03

## 06349900 Cannonball River at New England, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1978 through September 1981

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Alpha, gross radioactivity, suspended, total ( $\mu\text{g/L}$ as U natural)	3	3.00	0.50	--	--	--	--	--
Beta, gross, dissolved (pCi/L as strontium/yttrium-90)	3	22.00	11.00	--	--	--	--	--
Beta, gross, radioactivity, suspended, total (pCi/L as strontium/yttrium-90)	5	2.80	1.20	1.84	0.79	2.60	1.30	1.30
Sediment, suspended concentration (mg/L)	42	1560.00	19.00	119.62	251.27	84.00	57.50	41.00
Sediment discharge, suspended (tons per day)	42	2060.10	0.00	71.45	338.22	0.16	0.02	0.01
Sediment, bed material, fall diameter, distilled water, percent finer than .062 mm	3	43.00	7.00	--	--	--	--	--
Sediment, bed material, fall diameter, distilled water, percent finer than .125 mm	3	56.00	10.00	--	--	--	--	--
Sediment, bed material, fall diameter, distilled water, percent finer than .250 mm	3	75.00	19.00	--	--	--	--	--
Sediment, bed material, fall diameter, distilled water, percent finer than .500 mm	3	83.00	28.00	--	--	--	--	--
Sediment, bed material, fall diameter, distilled water, percent finer than 1.00 mm	3	86.00	38.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 2.00 mm	3	90.00	50.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 4.00 mm	3	94.00	70.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 8.00 mm	3	96.00	81.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 16.0 mm	3	98.00	87.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 32.0 mm	3	100.00	100.00	--	--	--	--	--
Coal in bottom material (g/kg)	1	3.00	3.00	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	6	9.00	5.00	6.62	1.38	7.00	6.50	5.70
Hydrogen, 2/1 ratio per mil	2	10.30	7.10	--	--	--	--	--
Sampling method (codes)	36	8010.00	8010.00	8010.00	0.00	8010.00	8010.00	8010.00
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	12	4060.00	443.00	2103.50	949.21	2815.00	1979.50	1515.00
Conversion factor	36	319.06	5.03	47.70	74.46	42.19	15.52	12.87
Total count (cells/mL)	36	150000.00	110.00	14505.56	32943.27	6600.00	2850.00	1150.00
Algae data								
Chlamydomonadaceae	1	14.00	14.00	--	--	--	--	--
Chlamydomonas	18	572.00	8.00	139.78	132.72	170.00	138.00	26.00
Sphaerocystis	1	107.00	107.00	--	--	--	--	--
Tetraspora	1	36.00	36.00	--	--	--	--	--
Elakatothrix	1	194.00	194.00	--	--	--	--	--
Chlorococcum	1	980.00	980.00	--	--	--	--	--
Schroederia	1	68.00	68.00	--	--	--	--	--
Coelastrum	1	2332.00	2332.00	--	--	--	--	--
Ankistrodesmus	20	7019.00	69.00	788.95	1618.42	527.50	164.50	90.50
Chlorella	2	102.00	79.00	--	--	--	--	--
Closteriopsis	1	5.00	5.00	--	--	--	--	--
Dictyosphaerium	3	1145.00	39.00	--	--	--	--	--
Kirchneriella	7	680.00	12.00	189.00	246.70	358.00	68.00	20.00
Oocystis	9	1812.00	14.00	583.89	666.55	874.00	296.00	136.00

## 06349900 Cannonball River at New England, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1978 through September 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Algae data--Continued								
Selenastrum	14	1595.00	14.00	251.00	413.01	194.00	145.00	26.00
Tetraedron	2	26.00	13.00	--	--	--	--	--
Treubaria	2	39.00	26.00	--	--	--	--	--
Westella	1	107.00	107.00	--	--	--	--	--
Chodatella	2	1595.00	20.00	--	--	--	--	--
Acinastrium	2	1166.00	56.00	--	--	--	--	--
Crucigenia	12	21687.00	81.00	2335.42	6133.21	530.00	420.00	323.00
Scenedesmus	26	15315.00	16.00	1407.23	3218.17	1410.00	240.50	79.00
Tetrastrum	12	2552.00	20.00	491.08	746.95	716.00	101.50	51.50
Micractinium	1	1749.00	1749.00	--	--	--	--	--
Euglena	13	389.00	5.00	75.00	100.35	83.00	50.00	26.00
Lepocinclis	1	14.00	14.00	--	--	--	--	--
Phacus	2	87.00	25.00	--	--	--	--	--
Trachelomonas	17	1210.00	13.00	309.06	311.83	429.00	181.00	103.00
Chroomonas	5	58.00	20.00	31.00	15.30	26.00	26.00	25.00
Cryptomonas	7	358.00	13.00	125.86	131.78	226.00	63.00	20.00
Gymnodinium	2	379.00	40.00	--	--	--	--	--
Glenodinium	4	194.00	25.00	--	--	--	--	--
Chrysococcus	1	424.00	424.00	--	--	--	--	--
Dinobryon	1	77.00	77.00	--	--	--	--	--
Cyclotella	20	1554.00	13.00	171.05	336.26	154.00	65.50	34.50
Melosira	2	201.00	42.00	--	--	--	--	--
Stephanodiscus	5	321.00	26.00	104.00	123.46	80.00	64.00	29.00
Diatoma	5	244.00	26.00	95.00	92.15	123.00	55.00	27.00
Asterionella	1	26.00	26.00	--	--	--	--	--
Synedra	6	194.00	5.00	51.17	71.81	52.00	21.00	14.00
Achnanthes	1	34.00	34.00	--	--	--	--	--
Gyrosigma	1	45.00	45.00	--	--	--	--	--
Navicula	12	572.00	5.00	98.08	167.78	66.00	37.50	13.00
Pleurosigma	1	115.00	115.00	--	--	--	--	--
Gomphonema	1	20.00	20.00	--	--	--	--	--
Cymbella	1	13.00	13.00	--	--	--	--	--
Rhopalodia	1	58.00	58.00	--	--	--	--	--
Nitzschia	27	1574.00	14.00	190.67	320.14	170.00	77.00	29.00
Gomphosphaeria	1	40.00	40.00	--	--	--	--	--
Anacystis	16	4740.00	13.00	975.38	1633.92	569.50	235.50	67.50

06349900 Cannonball River at New England, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1978 through September 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Algae data--Continued								
Agmenellum	4	2552.00	286.00	--	--	--	--	--
Lyngbya	1	572.00	572.00	--	--	--	--	--
Oscillatoria	4	6062.00	179.00	--	--	--	--	--
Spirulina	1	79.00	79.00	--	--	--	--	--
Anabaena	1	1037.00	1037.00	--	--	--	--	--
Aphanizomenon	1	3222.00	3222.00	--	--	--	--	--

Summary of daily streamflow data, October 1978 through September 1981

Month	Descriptive statistics					Percent of days that had values less than or equal to those shown in ft <sup>3</sup> /s				
	Maximum (ft <sup>3</sup> /s)	Minimum (ft <sup>3</sup> /s)	Mean (ft <sup>3</sup> /s)	Standard deviation (ft <sup>3</sup> /s)	Coefficient of variation	Percent of annual runoff	95	75	Median 50	5
October	0.25	0.02	0.08	0.06	71.07	0.1	0.20	0.11	0.06	0.02
November	0.60	0.01	0.18	0.22	120.62	0.1	0.60	0.28	0.06	0.02
December	1.80	0.01	0.32	0.44	137.15	0.2	1.40	0.60	0.07	0.01
January	0.90	0.02	0.26	0.28	109.17	0.2	0.80	0.60	0.08	0.04
February	0.75	0.01	0.23	0.24	105.01	0.1	0.65	0.50	0.08	0.02
March	213.00	0.03	15.76	37.28	236.54	11.2	100.00	8.10	0.98	0.04
April	1300.00	0.03	92.70	231.81	250.08	63.6	584.00	47.00	2.30	0.03
May	19.00	0.03	3.54	5.61	158.70	2.5	15.00	6.10	0.12	0.04
June	15.00	0.05	1.56	2.66	170.31	1.1	7.40	1.90	0.26	0.05
July	48.00	0.05	2.17	7.97	367.08	1.5	13.00	0.39	0.13	0.06
August	556.00	0.03	26.06	82.81	317.73	18.5	175.00	2.80	0.12	0.04
September	81.00	0.01	1.23	8.60	697.16	0.8	1.10	0.19	0.06	0.01
Annual	1300.00	0.01	11.96	75.62	632.18	100.0	35.00	0.60	0.11	0.02



LOCATION.--Lat. 46°27'50", long. 102°44'20", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 34, T. 135 N., R. 96 W., Hettinger County, Hydrologic Unit 10130204, 1 mi south of Havelock, and at county highway bridge.

DRAINAGE AREA.--70 mi<sup>2</sup>.

Summary of water-quality data collected at periodic intervals, October 1974 through August 1983

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	110	27.50	0.00	9.46	8.62	16.00	8.00	1.00
Temperature, air (degrees Celsius)	39	32.00	-20.00	10.45	12.63	22.00	11.00	1.00
Length of exposure (days)	2	43.00	34.00	--	--	--	--	--
Barometric pressure (mm of Hg)	11	702.00	685.00	694.64	5.61	700.00	693.00	690.00
Agency collecting sample (code number)	37	80020.00	1028.00	7432.76	21859.04	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	72	80020.00	1028.00	70140.72	26305.47	80020.00	80010.00	80010.00
Discharge, instantaneous (cubic feet per second)	110	853.00	0.02	44.27	153.85	1.50	0.13	0.09
Number of sampling points (count)	3	1.00	1.00	--	--	--	--	--
Gage height (feet)	3	5.60	4.70	--	--	--	--	--
Turbidity (JCU)	22	170.00	3.00	17.00	36.48	10.00	6.00	5.00
Color (platinum cobalt scale)	1	29.00	29.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	109	4800.00	145.00	1863.82	852.94	2350.00	1930.00	1320.00
Oxygen, dissolved (mg/L)	86	19.20	1.40	10.23	3.85	13.20	10.30	7.60
Oxygen, dissolved (percent saturation)	74	208.00	0.00	104.96	45.84	132.34	105.50	70.39
Biochemical oxygen demand, 5-day at 20 degrees Celsius (mg/L)	51	8.50	0.10	2.23	1.63	2.60	1.80	1.20
pH, water, whole, field (standard units)	91	10.10	7.00	8.09	0.61	8.40	8.10	7.60
pH, water, whole, laboratory (standard units)	18	8.60	7.00	7.99	0.41	8.20	8.10	7.80
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	56	83.00	0.00	13.27	18.40	15.00	4.95	1.90
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	67	624.00	67.00	330.19	118.47	369.00	337.00	247.00
Alkalinity, carbonate (mg/L as CaCO <sub>3</sub> )	11	540.00	116.00	349.64	113.89	390.00	340.00	290.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	56	761.00	92.00	397.48	156.17	485.00	393.00	290.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	51	103.00	0.00	7.06	18.89	4.00	0.00	0.00
Residue, total loss of ignition, volatile (mg/L)	1	30.00	30.00	--	--	--	--	--
Residue, total filterable, dried at 105 degrees Celsius (mg/L)	2	1600.00	1300.00	--	--	--	--	--
Residue, total nonfilterable (mg/L)	2	3.00	1.00	--	--	--	--	--
Biomass, periphyton ash weight (grams per square meter)	2	2.68	2.60	--	--	--	--	--
Biomass, periphyton dry weight total (grams per square meter)	2	3.78	2.84	--	--	--	--	--
Nitrogen, total (mg/L as N)	65	6.80	0.37	1.49	1.36	1.57	0.97	0.68
Nitrogen, dissolved (mg/L as N)	14	9.20	0.30	2.02	2.68	1.40	0.94	0.46
Nitrogen, organic, total (mg/L as N)	39	3.06	0.49	1.34	0.70	1.92	1.06	0.86
Nitrogen, organic, dissolved (mg/L as N)	1	0.00	0.00	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.58	0.58	--	--	--	--	--

## 06349930 Coal Bank Creek near Havelock, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1974 through August 1983

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Nitrogen, ammonia, total (mg/L as N)	37	0.74	0.00	0.13	0.18	0.12	0.06	0.03
Nitrogen, nitrate, dissolved (mg/L as N)	1	1.90	1.90	--	--	--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	43	2.30	0.09	0.88	0.57	1.00	0.72	0.45
Nitrogen, ammonia plus organic, suspended, total (mg/L as N)	34	1.50	0.00	0.25	0.29	0.40	0.14	0.04
Nitrogen, ammonia plus organic, total (mg/L as N)	76	3.70	0.34	1.17	0.72	1.35	0.98	0.66
Nitrogen, nitrite plus nitrate, total (mg/L as N)	57	3.80	0.00	0.47	0.85	0.72	0.07	0.02
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	24	7.00	0.00	0.72	1.68	0.19	0.05	0.01
Phosphate, total (mg/L as PO <sub>4</sub> )	4	0.74	0.09	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	18	0.31	0.00	0.04	0.08	0.03	0.00	0.00
Phosphorus, total (mg/L as P)	76	0.47	0.01	0.06	0.08	0.06	0.04	0.03
Phosphorus, dissolved (mg/L as P)	48	0.10	0.00	0.03	0.02	0.04	0.02	0.01
Phosphorus, orthophosphate, dissolved (mg/L as P)	8	0.10	0.01	0.03	0.03	0.04	0.01	0.01
Carbon, organic, dissolved (mg/L as C)	74	37.00	8.30	17.35	5.84	21.00	16.00	13.00
Carbon, organic, suspended, total (mg/L as C)	62	6.10	0.20	1.00	1.04	1.00	0.60	0.40
Cyanide, total (mg/L as Cn)	7	0.01	0.00	0.00	0.00	0.01	0.00	0.00
Hardness, total (mg/L as CaCO <sub>3</sub> )	84	1629.05	146.30	622.11	255.54	761.51	608.73	460.49
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	75	670.00	0.00	258.55	153.60	350.00	250.00	150.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	1	630.00	630.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	84	240.00	23.00	116.75	50.17	150.00	115.00	81.50
Magnesium, dissolved (mg/L as Mg)	84	250.00	13.00	80.08	35.88	96.50	77.00	63.00
Sodium, dissolved (mg/L as Na)	84	660.00	35.00	261.68	94.42	300.00	270.00	220.00
Sodium adsorption ratio	84	10.18	1.26	4.61	1.40	5.33	4.54	3.88
Sodium (percent)	84	73.98	32.26	47.38	7.63	51.14	45.90	42.43
Sodium plus potassium, dissolved (mg/L as Na)	9	350.00	300.00	325.56	17.40	340.00	320.00	310.00
Potassium, dissolved (mg/L as K)	84	15.00	4.40	9.12	2.19	11.00	9.10	7.85
Chloride, dissolved (mg/L as Cl)	84	89.00	3.20	12.00	10.00	12.00	10.00	8.20
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	84	2600.00	120.00	818.09	365.86	940.00	790.00	635.00
Fluoride, dissolved (mg/L as F)	84	1.00	0.10	0.31	0.14	0.30	0.30	0.20
Silica, dissolved (mg/L as SiO <sub>2</sub> )	83	15.00	0.10	5.37	4.45	9.10	4.70	1.10
Arsenic, dissolved (µg/L as As)	30	4.00	1.00	1.67	0.88	2.00	1.00	1.00
Arsenic, suspended, total (µg/L as As)	16	7.00	0.00	1.31	1.78	1.00	1.00	0.50
Arsenic, total (µg/L as As)	18	10.00	1.00	2.89	2.22	4.00	2.00	2.00
Arsenic, total in bottom material (µg/g as As)	2	100.00	14.00	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	10	200.00	50.00	134.00	62.57	200.00	125.00	90.00
Barium, suspended, recoverable (µg/L as Ba)	11	200.00	0.00	29.09	63.95	10.00	0.00	0.00
Barium, total (µg/L as Ba)	5	300.00	100.00	160.00	89.44	200.00	100.00	100.00
Barium, total in bottom material (µg/g as Ba)	1	220.00	220.00	--	--	--	--	--

## 06349930 Coal Bank Creek near Havelock, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1974 through August 1983

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Beryllium, suspended, recoverable ( $\mu\text{g/L}$ as Be)	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Beryllium, total ( $\mu\text{g/L}$ as Be)	6	10.00	0.00	3.33	5.16	10.00	0.00	0.00
Beryllium, total in bottom material ( $\mu\text{g/g}$ as Be)	1	0.00	0.00	--	--	--	--	--
Boron, dissolved ( $\mu\text{g/L}$ as B)	63	3100.00	120.00	1169.52	552.59	1400.00	1100.00	840.00
Cadmium, dissolved ( $\mu\text{g/L}$ as Cd)	1	2.00	2.00	--	--	--	--	--
Cadmium, suspended ( $\mu\text{g/L}$ as Cd)	3	10.00	0.00	--	--	--	--	--
Cadmium, total ( $\mu\text{g/L}$ as Cd)	6	2.00	0.00	0.67	0.82	1.00	0.50	0.00
Cadmium, total in bottom material ( $\mu\text{g/g}$ as Cd)	2	2.00	1.00	--	--	--	--	--
Chromium, total in bottom material ( $\mu\text{g/g}$ as Cr)	2	10.00	4.00	--	--	--	--	--
Chromium, dissolved ( $\mu\text{g/L}$ as Cr)	6	80.00	0.00	15.00	32.09	10.00	0.00	0.00
Chromium, suspended ( $\mu\text{g/L}$ as Cr)	11	20.00	0.00	5.45	8.20	10.00	0.00	0.00
Chromium, total ( $\mu\text{g/L}$ as Cr)	8	30.00	0.00	11.25	9.91	15.00	10.00	5.00
Cobalt, dissolved ( $\mu\text{g/L}$ as Co)	1	0.00	0.00	--	--	--	--	--
Cobalt, suspended ( $\mu\text{g/L}$ as Co)	1	0.00	0.00	--	--	--	--	--
Cobalt, total ( $\mu\text{g/L}$ as Co)	2	1.00	0.00	--	--	--	--	--
Cobalt, total in bottom material ( $\mu\text{g/g}$ as Co)	2	10.00	0.00	--	--	--	--	--
Copper, dissolved ( $\mu\text{g/L}$ as Cu)	18	100.00	1.00	8.22	22.95	3.00	2.50	2.00
Copper, suspended ( $\mu\text{g/L}$ as Cu)	14	30.00	0.00	7.71	9.79	10.00	3.50	2.00
Copper, total ( $\mu\text{g/L}$ as Cu)	13	110.00	0.00	18.61	29.86	14.00	6.00	5.00
Copper, total in bottom material ( $\mu\text{g/g}$ as Cu)	2	33.00	12.00	--	--	--	--	--
Iron, suspended ( $\mu\text{g/L}$ as Fe)	16	22000.00	10.00	1721.88	5416.18	675.00	295.00	135.00
Iron, total ( $\mu\text{g/L}$ as Fe)	27	22000.00	50.00	1674.44	4737.45	670.00	340.00	180.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	48	330.00	0.00	62.06	60.23	78.50	40.00	20.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	18	7.00	1.00	2.72	1.74	3.00	2.00	2.00
Lead, suspended ( $\mu\text{g/L}$ as Pb)	8	99.00	0.00	32.38	42.53	69.00	8.00	3.00
Lead, total ( $\mu\text{g/L}$ as Pb)	8	46.00	1.00	9.75	15.03	9.50	4.00	2.00
Lead, total in bottom material ( $\mu\text{g/g}$ as Pb)	2	20.00	20.00	--	--	--	--	--
Manganese, total in bottom material ( $\mu\text{g/g}$ as Mn)	2	1900.00	550.00	--	--	--	--	--
Manganese, suspended ( $\mu\text{g/L}$ as Mn)	29	420.00	0.00	63.45	91.15	70.00	20.00	10.00
Manganese, total ( $\mu\text{g/L}$ as Mn)	29	960.00	20.00	226.90	228.76	280.00	200.00	50.00
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	43	1900.00	6.00	303.37	446.96	400.00	120.00	40.00
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	9	2.00	1.00	1.44	0.53	2.00	1.00	1.00
Molybdenum, suspended ( $\mu\text{g/L}$ as Mo)	10	2.00	0.00	0.30	0.68	0.00	0.00	0.00
Molybdenum, total ( $\mu\text{g/L}$ as Mo)	10	2.00	0.00	1.30	0.68	2.00	1.00	1.00
Molybdenum, total in bottom material ( $\mu\text{g/g}$ as Mo)	1	0.00	0.00	--	--	--	--	--
Nickel, dissolved ( $\mu\text{g/L}$ as Ni)	19	13.00	0.00	5.68	4.14	10.00	4.00	3.00
Nickel, suspended ( $\mu\text{g/L}$ as Ni)	13	38.00	0.00	10.61	13.90	9.00	4.00	3.00

## 06349930 Coal Bank Creek near Havelock, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1974 through August 1983

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Nickel, total ( $\mu\text{g/L}$ as Ni)	14	50.00	3.00	17.21	16.76	30.00	11.00	4.00
Nickel, total in bottom material ( $\mu\text{g/g}$ as Ni)	1	30.00	30.00	--	--	--	--	--
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	23	3600.00	240.00	2188.70	903.75	2600.00	2200.00	1800.00
Strontium, suspended ( $\mu\text{g/L}$ as Sr)	9	300.00	0.00	52.22	100.22	70.00	0.00	0.00
Strontium, total ( $\mu\text{g/L}$ as Sr)	9	3700.00	290.00	1644.44	1010.10	1900.00	1600.00	1500.00
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	9	3.80	0.00	0.97	1.22	1.50	0.60	0.00
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	15	340.00	4.00	62.13	111.28	40.00	20.00	10.00
Zinc, suspended ( $\mu\text{g/L}$ as Zn)	13	110.00	0.00	24.85	33.37	30.00	10.00	6.00
Zinc, total ( $\mu\text{g/L}$ as Zn)	15	130.00	10.00	42.67	40.97	60.00	30.00	10.00
Zinc, total in bottom material ( $\mu\text{g/g}$ as Zn)	2	49.00	17.00	--	--	--	--	--
Aluminum, total ( $\mu\text{g/L}$ as Al)	9	9700.00	50.00	1325.56	3143.64	300.00	270.00	250.00
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	16	350.00	5.00	47.81	84.56	40.00	20.00	10.00
Aluminum, suspended ( $\mu\text{g/L}$ as Al)	9	9700.00	40.00	1302.22	3152.81	290.00	240.00	170.00
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	26	100.00	9.00	50.12	17.33	60.00	50.00	40.00
Lithium, suspended ( $\mu\text{g/L}$ as Li)	14	10.00	0.00	1.50	3.61	0.00	0.00	0.00
Lithium, total ( $\mu\text{g/L}$ as Li)	14	70.00	20.00	45.71	15.55	60.00	50.00	30.00
Selenium, dissolved ( $\mu\text{g/L}$ as Se)	27	11.00	0.00	2.07	2.37	2.00	1.00	1.00
Selenium, suspended ( $\mu\text{g/L}$ as Se)	19	1.00	0.00	0.10	0.31	0.00	0.00	0.00
Selenium, total ( $\mu\text{g/L}$ as Se)	17	10.00	0.00	2.35	2.76	3.00	1.00	1.00
Selenium, total in bottom material ( $\mu\text{g/g}$ as Se)	2	1.00	0.00	--	--	--	--	--
Iron, total in bottom material ( $\mu\text{g/g}$ as Fe)	1	5500.00	5500.00	--	--	--	--	--
Alpha, gross, dissolved (pCi/L as U natural)	1	16.00	16.00	--	--	--	--	--
Alpha, gross, suspended (pCi/L as U natural)	2	0.80	0.30	--	--	--	--	--
Beta, gross, dissolved (pCi/L as Cs-137)	4	34.00	11.00	--	--	--	--	--
Beta, gross, suspended (pCi/L as Cs-137)	6	2.50	0.40	1.43	1.00	2.30	1.45	0.50
Radium 226, dissolved, radon method (pCi/L)	4	0.09	0.03	--	--	--	--	--
Uranium, natural, water, dissolved ( $\mu\text{g/L}$ )	3	1.80	1.40	--	--	--	--	--
Fecal coliform, 7 $\mu\text{m}$ -membrane filter (colonies/100 mL)	3	150.00	35.00	--	--	--	--	--
Streptococci, fecal, membrane filter, KF agar (colonies/100 mL)	5	970.00	21.00	263.80	400.65	200.00	80.00	48.00
Phenols, total ( $\mu\text{g/L}$ )	8	6.00	0.00	3.50	2.33	6.00	3.00	2.00
Heptachlor, suspended, total ( $\mu\text{g/L}$ )	1	120.00	120.00	--	--	--	--	--
Phytoplankton, total (cells/mL)	20	13000.00	0.00	2695.65	3817.69	4450.00	605.00	175.00
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	83	4290.00	309.00	1564.43	585.70	1850.00	1550.00	1240.00
Solids, sum of constituents, dissolved (mg/L)	77	4003.82	361.27	1532.01	559.11	1771.61	1491.76	1290.31
Solids, dissolved (tons per day)	84	249.64	0.08	11.88	38.69	1.56	0.51	0.31
Solids, dissolved (tons per acre-foot)	84	5.83	0.42	2.13	0.79	2.50	2.12	1.73
Sediment, suspended, fall diameter, distilled water, percent finer than .004 mm	2	97.00	94.00	--	--	--	--	--

## Summary of water-quality data collected at periodic intervals, October 1974 through August 1983

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sediment, suspended, fall diameter, distilled water, percent finer than .016 mm	2	98.00	96.00	--	--	--	--	--
Sediment, suspended, fall diameter, distilled water, percent finer than .062 mm	2	100.00	100.00	--	--	--	--	--
Biomass-chlorophyll ratio, periphyton (units)	2	592.59	559.24	--	--	--	--	--
Chlorophyll a, periphyton, chromatographic-fluorometric (milligrams per square meter)	2	2.11	0.27	--	--	--	--	--
Chlorophyll b, periphyton, chromatographic-fluorometric (milligrams per square meter)	2	0.29	0.13	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as NH <sub>4</sub> )	37	0.95	0.00	0.17	0.23	0.16	0.08	0.04
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	1	8.20	8.20	--	--	--	--	--
Bromide, dissolved (mg/L as Br)	18	0.10	0.00	0.08	0.04	0.10	0.10	0.10
Phosphorus, total (mg/L as PO <sub>4</sub> )	27	1.00	0.03	0.20	0.21	0.21	0.15	0.09
Nitrogen, total (mg/L as NO <sub>3</sub> )	65	30.10	1.60	6.59	6.03	6.95	4.30	3.01
Mercury, dissolved (µg/L as Hg)	10	0.50	0.00	0.14	0.18	0.20	0.05	0.00
Mercury, suspended, recoverable (µg/L as Hg)	15	0.40	0.00	0.09	0.13	0.20	0.00	0.00
Mercury, total, recoverable (µg/L as Hg)	13	0.60	0.00	0.20	0.18	0.30	0.10	0.10
Mercury, recoverable from bottom material (µg/g as Hg)	2	0.60	0.03	--	--	--	--	--
Uranium, dissolved, direct fluorometric (pCi/L)	1	1.40	1.40	--	--	--	--	--
Alpha, gross radioactivity, suspended, total (µg/L as U natural)	1	1.20	1.20	--	--	--	--	--
Beta, gross, dissolved (pCi/L as strontium/yttrium-90)	4	27.00	9.30	--	--	--	--	--
Beta, gross, radioactivity, suspended, total (pCi/L as strontium/yttrium-90)	5	2.40	0.50	1.58	0.91	2.30	2.00	0.70
Sediment, suspended concentration (mg/L)	74	481.00	3.00	50.55	79.65	56.00	21.50	9.00
Sediment discharge, suspended (tons per day)	74	74.84	0.00	2.71	12.58	0.04	0.01	0.00
Sediment, bed material, fall diameter, distilled water, percent finer than .004 mm	1	20.00	20.00	--	--	--	--	--
Sediment, bed material, fall diameter, distilled water, percent finer than .062 mm	6	83.00	2.00	45.33	28.16	63.00	48.50	27.00
Sediment, bed material, fall diameter, distilled water, percent finer than .125 mm	6	89.00	5.00	55.50	28.11	70.00	58.00	53.00
Sediment, bed material, fall diameter, distilled water, percent finer than .250 mm	6	92.00	13.00	69.17	30.66	92.00	81.00	56.00
Sediment, bed material, fall diameter, distilled water, percent finer than .500 mm	6	99.00	24.00	74.50	28.97	94.00	86.00	58.00
Sediment, bed material, fall diameter, distilled water, percent finer than 1.00 mm	6	100.00	24.00	76.50	30.20	100.00	88.00	59.00
Sediment, bed material, sieve diameter, percent finer than 2.00 mm	4	99.00	31.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 4.00 mm	4	100.00	40.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 8.00 mm	3	89.00	49.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 16.0 mm	3	94.00	53.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 32.0 mm	3	100.00	58.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 64.0 mm	2	100.00	100.00	--	--	--	--	--
Coal in bottom material (g/kg)	1	8.00	8.00	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	6	6.80	3.70	5.20	1.08	6.00	5.00	4.70
Hydrogen, 2/1 ratio per mil	1	4.60	4.60	--	--	--	--	--
Sampling method (codes)	20	8010.00	8010.00	8010.00	0.00	8010.00	8010.00	8010.00

## 06349930 Coal Bank Creek near Havelock, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1974 through August 1983

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median	25
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	18	4590.00	466.00	2148.06	1028.97	2470.00	1999.50	1530.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	5	379.00	196.00	287.80	74.55	347.00	270.00	247.00
Conversion factor	20	102.72	5.04	21.92	23.56	16.47	12.90	12.87
Total count (cells/mL)	20	13000.00	0.00	2695.65	3817.69	4450.00	605.00	175.00
Algae data								
Chlamydomonas	10	535.00	13.00	121.70	172.51	158.00	45.00	13.00
Geminella	1	19.00	19.00	--	--	--	--	--
Chlorococcum	1	165.00	165.00	--	--	--	--	--
Ankistrodesmus	7	479.00	26.00	144.71	154.60	149.00	100.00	37.00
Kirchneriella	3	130.00	9.00	--	--	--	--	--
Selenastrum	1	13.00	13.00	--	--	--	--	--
Acinastrum	1	274.00	274.00	--	--	--	--	--
Crucigenia	1	659.00	659.00	--	--	--	--	--
Scenedesmus	5	274.00	26.00	166.40	117.59	247.00	233.00	52.00
Microcystium	1	548.00	548.00	--	--	--	--	--
Euglena	2	753.00	13.00	--	--	--	--	--
Lepocinclis	1	342.00	342.00	--	--	--	--	--
Phacus	1	68.00	68.00	--	--	--	--	--
Trachelomonas	4	1233.00	13.00	--	--	--	--	--
Calycomonas	1	9.00	9.00	--	--	--	--	--
Cryptophyceae	1	37.00	37.00	--	--	--	--	--
Chroomonas	3	52.00	23.00	--	--	--	--	--
Cryptomonas	4	1233.00	13.00	--	--	--	--	--
Gymnodinium	2	57.00	9.00	--	--	--	--	--
Glenodinium	4	274.00	13.00	--	--	--	--	--
Chrysophyceae	1	651.00	651.00	--	--	--	--	--
Chrysococcus	3	521.00	103.00	--	--	--	--	--
Synura	1	932.00	932.00	--	--	--	--	--
Dinobryon	1	64.00	64.00	--	--	--	--	--
Ochromonas	1	548.00	548.00	--	--	--	--	--
Cyclotella	7	1438.00	13.00	250.43	528.29	206.00	23.00	13.00
Melosira	1	274.00	274.00	--	--	--	--	--
Diatoma	2	57.00	13.00	--	--	--	--	--
Synedra	3	93.00	41.00	--	--	--	--	--
Achnanthes	1	9.00	9.00	--	--	--	--	--
Cocconeis	3	41.00	13.00	--	--	--	--	--
Navicula	4	82.00	13.00	--	--	--	--	--

06349930 Coal Bank Creek near Havelock, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1974 through August 1983

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Algae data--Continued								
Gomphonema	1	68.00	68.00	--	--	--	--	--
Nitzschia	10	256.00	13.00	74.30	77.79	124.00	47.00	13.00
Anacystis	3	548.00	26.00	--	--	--	--	--
Schizothrix	1	288.00	288.00	--	--	--	--	--

Summary of daily streamflow data, October 1974 through September 1983

Month	Descriptive statistics					Percent of days that had values less than or equal to those shown in ft <sup>3</sup> /s				
	Maximum (ft <sup>3</sup> /s)	Minimum (ft <sup>3</sup> /s)	Mean (ft <sup>3</sup> /s)	Standard deviation (ft <sup>3</sup> /s)	Coefficient of variation	Percent of annual runoff	95	75	Median 50	5
October	269.00	0.00	3.11	22.14	711.86	3.8	4.00	0.15	0.09	0.05
November	10.00	0.05	0.40	1.00	252.31	0.5	1.70	0.20	0.13	0.09
December	1.70	0.01	0.17	0.25	146.94	0.2	0.38	0.16	0.10	0.07
January	19.00	0.00	0.47	1.76	378.16	0.6	2.20	0.15	0.10	0.03
February	75.00	0.00	2.93	8.73	298.16	3.2	15.00	0.47	0.13	0.10
March	820.00	0.00	20.71	86.30	416.62	25.0	72.00	3.50	0.42	0.12
April	1000.00	0.00	34.47	112.10	325.18	40.3	230.00	8.00	1.70	0.15
May	885.00	0.00	11.35	66.84	588.76	13.7	29.00	3.90	0.94	0.09
June	33.00	0.00	7.12	38.26	537.54	8.3	14.00	2.40	1.00	0.12
July	52.00	0.00	0.83	3.70	445.94	1.0	3.00	0.45	0.12	0.00
August	70.00	0.00	2.59	13.88	536.38	3.1	12.00	0.13	0.07	0.00
September	18.00	0.00	0.30	1.28	422.02	0.4	0.90	0.17	0.10	0.05
Annual	1000.00	0.00	7.03	48.20	685.72	100.0	15.00	0.64	0.13	0.07

06350000 Cannonball River at Regent, North Dakota

LOCATION:--Lat. 46°25'36", long. 102°33'05", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec. 13, T. 134 N., R. 95 W., Hettinger County, Hydrologic Unit 10130204, on right bank 400 ft from bridge on county highway, and 0.3 mi north of Regent.

DRAINAGE AREA:--580 mi<sup>2</sup>, approximately.

REMARKS:--Other daily values at this site include sediment, suspended concentration (mg/L), October 1964 through September 1966.

Summary of water-quality data collected at periodic intervals, August 1964 through September 1993

Water-quality constituent	Sample size	Descriptive statistics					Percent of samples in which values were less than or equal to those shown	
		Maximum	Minimum	Mean	Standard deviation		75	Median 50 25
Water temperature (degrees Celsius)	347	28.50	0.00	9.59	9.11		19.00	7.50 0.50
Temperature, air (degrees Celsius)	185	41.00	-31.00	10.74	12.83		21.00	12.00 2.00
Length of exposure (days)	9	42.00	13.00	28.67	9.15		35.00	29.00 21.00
Barometric pressure (mm of Hg)	2	690.00	685.00	--	--		--	-- --
Agency collecting sample (code number)	171	38002.00	1028.00	1244.22	2827.47		1028.00	1028.00 1028.00
Agency analyzing sample (code number)	219	80020.00	1028.00	37300.65	36737.98		80010.00	38002.00 1028.00
Discharge (cubic feet per second)	134	3820.00	1.00	235.12	519.75		200.00	19.55 5.00
Discharge, instantaneous (cubic feet per second)	283	9620.00	0.15	184.89	899.87		20.80	6.30 3.20
Number of sampling points (count)	7	12.00	3.00	7.00	3.27		10.00	7.00 4.00
Gage height (feet)	1	1.90	1.90	--	--		--	-- --
Color (platinum cobalt scale)	51	75.00	3.00	26.72	19.40		40.00	22.00 12.00
Specific conductance (μS/cm at 25 degrees Celsius)	17	2840.00	434.00	1597.71	583.90		1880.00	1700.00 1480.00
Specific conductance (μS/cm at 25 degrees Celsius)	389	3310.00	120.00	1625.64	627.97		2010.00	1710.00 1300.00
Sample treatment (codes)	1	1.00	1.00	--	--		--	-- --
Oxygen, dissolved (mg/L)	47	15.90	5.90	9.82	2.60		12.20	9.10 7.70
Oxygen, dissolved (percent saturation)	46	127.00	44.00	91.85	20.68		104.00	98.00 83.00
pH, water, whole, field (standard units)	172	8.70	6.70	8.01	0.38		8.30	8.10 7.80
pH, water, whole, laboratory (standard units)	33	8.50	6.89	8.02	0.44		8.32	8.20 8.00
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	112	33.00	0.60	8.25	6.69		11.50	5.70 3.15
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	145	710.00	50.00	302.08	126.29		383.00	333.00 211.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	137	869.00	61.00	360.68	155.47		460.00	399.00 255.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	136	30.00	0.00	1.82	4.88		0.00	0.00 0.00
Biomass, periphyton ash weight (grams per square meter)	9	8.58	1.42	3.40	2.29		3.78	3.07 1.89
Biomass, periphyton dry weight total (grams per square meter)	9	10.20	2.20	4.47	2.58		4.49	3.62 2.83
Nitrogen, total (mg/L as N)	36	1.72	0.54	1.08	0.28		1.26	1.07 0.91
Nitrogen, dissolved (mg/L as N)	3	1.12	0.50	--	--		--	-- --
Nitrogen, organic, total (mg/L as N)	40	1.67	0.29	0.79	0.31		0.94	0.77 0.54
Nitrogen, organic, dissolved (mg/L as N)	1	0.00	0.00	--	--		--	-- --
Nitrogen, ammonia, total (mg/L as N)	39	0.44	0.00	0.08	0.09		0.10	0.05 0.03



## Summary of water-quality data collected at periodic intervals, August 1964 through September 1993

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Nitrogen, nitrate, dissolved (mg/L as N)	71	3.40	0.00	0.49	0.52	0.77	0.29	0.16
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	3	1.00	0.46	--	--	--	--	--
Nitrogen, ammonia plus organic, suspended, total (mg/L as N)	3	0.70	0.17	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	40	1.70	0.40	0.87	0.31	1.00	0.84	0.67
Nitrogen, nitrite plus nitrate, total (mg/L as N)	35	0.86	0.00	0.22	0.26	0.35	0.09	0.02
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	15	0.12	0.00	0.05	0.05	0.10	0.03	0.00
Phosphate, total (mg/L as PO <sub>4</sub> )	6	0.25	0.01	0.13	0.10	0.21	0.14	0.01
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	17	0.60	0.00	0.08	0.15	0.06	0.01	0.00
Phosphorus, total (mg/L as P)	39	0.14	0.01	0.05	0.03	0.07	0.04	0.03
Phosphorus, dissolved (mg/L as P)	36	0.69	0.00	0.04	0.11	0.03	0.02	0.01
Phosphorus, orthophosphate, dissolved (mg/L as P)	9	0.08	0.00	0.02	0.03	0.02	0.00	0.00
Carbon, organic, dissolved (mg/L as C)	40	120.00	8.70	15.79	17.30	14.50	12.50	11.00
Carbon, organic, suspended, total (mg/L as C)	39	5.70	0.10	0.83	0.94	0.90	0.60	0.40
Cyanide, total (mg/L as Cn)	3	0.00	0.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	173	886.39	48.09	361.39	173.97	465.41	360.43	224.15
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	145	390.00	0.00	70.00	92.82	85.00	29.00	1.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	14	220.00	0.00	28.07	60.58	40.00	0.00	0.00
Calcium, dissolved (mg/L as Ca)	173	200.00	12.00	69.60	33.40	88.00	65.00	45.00
Magnesium, dissolved (mg/L as Mg)	173	120.00	3.40	45.49	23.77	62.00	47.00	27.00
Sodium, dissolved (mg/L as Na)	173	490.00	20.00	205.40	102.72	280.00	220.00	127.00
Sodium adsorption ratio	173	8.00	1.01	4.54	1.65	5.71	4.79	3.47
Sodium (percent)	173	69.00	32.07	53.13	6.63	57.58	52.94	49.09
Sodium plus potassium, dissolved (mg/L as Na)	11	340.00	180.00	280.91	44.60	310.00	280.00	260.00
Potassium, dissolved (mg/L as K)	173	17.00	3.50	7.84	1.99	8.50	7.50	6.60
Chloride, dissolved (mg/L as Cl)	173	55.00	0.90	7.82	5.35	10.00	7.40	4.30
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	173	1400.00	46.00	491.65	268.48	670.00	500.00	288.00
Fluoride, dissolved (mg/L as F)	173	1.10	0.10	0.40	0.17	0.50	0.40	0.30
Silica, dissolved (mg/L as SiO <sub>2</sub> )	173	14.00	0.60	6.74	2.92	8.90	6.10	5.00
Arsenic, dissolved (µg/L as As)	33	21.00	0.00	2.06	3.57	2.00	1.00	1.00
Arsenic, suspended, total (µg/L as As)	5	4.00	0.00	1.40	1.52	1.00	1.00	1.00
Arsenic, total (µg/L as As)	9	6.00	2.00	2.78	1.30	3.00	2.00	2.00
Arsenic, total in bottom material (µg/g as As)	4	100.00	9.00	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	11	200.00	30.00	76.36	47.17	90.00	70.00	40.00
Barium, suspended, recoverable (µg/L as Ba)	7	200.00	10.00	62.86	67.26	100.00	30.00	20.00
Barium, total (µg/L as Ba)	6	200.00	100.00	150.00	54.77	200.00	150.00	100.00
Barium, total in bottom material (µg/g as Ba)	3	200.00	30.00	--	--	--	--	--
Beryllium, suspended, recoverable (µg/L as Be)	3	0.00	0.00	--	--	--	--	--

## 06350000 Cammonball River at Regent, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, August 1964 through September 1993

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median	25
Beryllium, total ( $\mu\text{g/L}$ as Be)	5	10.00	0.00	2.00	4.47	0.00	0.00	0.00
Beryllium, total in bottom material ( $\mu\text{g/g}$ as Be)	3	1.00	1.00	--	--	--	--	--
Boron, dissolved ( $\mu\text{g/L}$ as B)	172	1300.00	0.00	427.67	227.60	600.00	450.00	250.00
Cadmium, dissolved ( $\mu\text{g/L}$ as Cd)	1	17.00	17.00	--	--	--	--	--
Cadmium, suspended ( $\mu\text{g/L}$ as Cd)	1	0.00	0.00	--	--	--	--	--
Cadmium, total ( $\mu\text{g/L}$ as Cd)	5	3.00	0.00	1.00	1.41	2.00	0.00	0.00
Cadmium, total in bottom material ( $\mu\text{g/g}$ as Cd)	2	1.00	0.00	--	--	--	--	--
Chromium, total in bottom material ( $\mu\text{g/g}$ as Cr)	4	6.00	0.00	--	--	--	--	--
Chromium, dissolved ( $\mu\text{g/L}$ as Cr)	6	10.00	0.00	3.33	5.16	10.00	0.00	0.00
Chromium, suspended ( $\mu\text{g/L}$ as Cr)	7	30.00	0.00	10.00	11.55	20.00	10.00	0.00
Chromium, total ( $\mu\text{g/L}$ as Cr)	6	30.00	0.00	10.83	12.01	20.00	7.50	0.00
Cobalt, dissolved ( $\mu\text{g/L}$ as Co)	1	0.00	0.00	--	--	--	--	--
Cobalt, suspended ( $\mu\text{g/L}$ as Co)	3	0.00	0.00	--	--	--	--	--
Cobalt, total ( $\mu\text{g/L}$ as Co)	3	4.00	1.00	--	--	--	--	--
Cobalt, total in bottom material ( $\mu\text{g/g}$ as Co)	4	40.00	10.00	--	--	--	--	--
Copper, dissolved ( $\mu\text{g/L}$ as Cu)	11	29.00	1.00	7.82	8.62	8.00	6.00	2.00
Copper, suspended ( $\mu\text{g/L}$ as Cu)	6	40.00	0.00	8.17	15.72	5.00	2.00	0.00
Copper, total ( $\mu\text{g/L}$ as Cu)	9	46.00	3.00	11.44	13.34	11.00	8.00	4.00
Copper, total in bottom material ( $\mu\text{g/g}$ as Cu)	4	10.00	5.00	--	--	--	--	--
Iron, suspended ( $\mu\text{g/L}$ as Fe)	11	30000.00	350.00	3386.36	8835.68	800.00	790.00	430.00
Iron, total ( $\mu\text{g/L}$ as Fe)	12	30000.00	430.00	3200.00	8447.70	830.00	815.00	485.00
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	96	1400.00	0.00	81.33	166.55	80.00	40.00	20.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	15	17.00	0.00	3.20	4.87	5.00	1.00	0.00
Lead, suspended ( $\mu\text{g/L}$ as Pb)	4	11.00	0.00	--	--	--	--	--
Lead, total ( $\mu\text{g/L}$ as Pb)	5	21.00	1.00	10.00	8.48	16.00	9.00	3.00
Lead, total in bottom material ( $\mu\text{g/g}$ as Pb)	2	14.00	10.00	--	--	--	--	--
Manganese, total in bottom material ( $\mu\text{g/g}$ as Mn)	4	9500.00	470.00	--	--	--	--	--
Manganese, suspended ( $\mu\text{g/L}$ as Mn)	16	720.00	10.00	135.63	174.47	155.00	90.00	30.00
Manganese, total ( $\mu\text{g/L}$ as Mn)	25	720.00	10.00	182.00	158.43	270.00	140.00	80.00
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	76	250.00	4.00	75.25	61.20	105.00	60.00	20.00
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	23	14.00	0.00	3.17	3.34	4.00	2.00	1.00
Molybdenum, suspended ( $\mu\text{g/L}$ as Mo)	4	0.00	0.00	--	--	--	--	--
Molybdenum, total ( $\mu\text{g/L}$ as Mo)	5	5.00	1.00	3.20	1.64	4.00	4.00	2.00
Molybdenum, total in bottom material ( $\mu\text{g/g}$ as Mo)	2	1.00	0.00	--	--	--	--	--
Nickel, dissolved ( $\mu\text{g/L}$ as Ni)	12	5.00	0.00	3.08	1.56	4.50	3.00	2.00
Nickel, suspended ( $\mu\text{g/L}$ as Ni)	7	34.00	1.00	6.86	12.06	5.00	3.00	1.00
Nickel, total ( $\mu\text{g/L}$ as Ni)	9	37.00	3.00	9.44	10.45	7.00	6.00	6.00

## Summary of water-quality data collected at periodic intervals, August 1964 through September 1993

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Nickel, total in bottom material (µg/g as Ni)	3	30.00	17.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	29	1700.00	120.00	1017.24	441.15	1400.00	1100.00	720.00
Strontium, suspended (µg/L as Sr)	3	90.00	0.00	--	--	--	--	--
Strontium, total (µg/L as Sr)	3	1000.00	370.00	--	--	--	--	--
Vanadium, dissolved (µg/L as V)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zinc, dissolved (µg/L as Zn)	4	20.00	5.00	--	--	--	--	--
Zinc, suspended (µg/L as Zn)	5	40.00	0.00	19.40	16.33	30.00	20.00	7.00
Zinc, total (µg/L as Zn)	9	130.00	10.00	34.44	37.12	30.00	20.00	20.00
Zinc, total in bottom material (µg/g as Zn)	4	51.00	24.00	--	--	--	--	--
Aluminum, dissolved (µg/L as Al)	7	30.00	0.00	11.43	10.69	20.00	10.00	0.00
Lithium, dissolved (µg/L as Li)	36	60.00	5.00	37.67	14.22	50.00	40.00	30.00
Lithium, suspended (µg/L as Li)	7	20.00	0.00	7.14	9.51	20.00	0.00	0.00
Lithium, total (µg/L as Li)	9	60.00	20.00	41.11	12.69	50.00	40.00	30.00
Selenium, dissolved (µg/L as Se)	25	3.00	0.00	0.96	0.84	1.00	1.00	0.00
Selenium, suspended (µg/L as Se)	7	1.00	0.00	0.29	0.49	1.00	0.00	0.00
Selenium, total (µg/L as Se)	9	1.00	0.00	0.67	0.50	1.00	1.00	0.00
Selenium, total in bottom material (µg/g as Se)	4	0.00	0.00	--	--	--	--	--
Iron, total in bottom material (µg/g as Fe)	1	160000.00	160000.00	--	--	--	--	--
Alpha, gross, suspended (pCi/L as U natural)	4	1.00	0.30	--	--	--	--	--
Beta, gross, dissolved (pCi/L as Cs-137)	4	16.00	8.10	--	--	--	--	--
Beta, gross, suspended (pCi/L as Cs-137)	6	1.60	0.40	1.02	0.44	1.40	0.95	0.80
Iron 59, dissolved (pCi/L)	1	3.00	3.00	--	--	--	--	--
Fecal coliform, 7 µm-membrane filter (colonies/100 mL)	19	350.00	15.00	115.53	82.75	153.00	97.00	55.00
Streptococci, fecal, membrane filter, KF agar (colonies/100 mL)	30	1300.00	29.00	260.47	336.97	250.00	140.00	70.00
Phenols, total (µg/L)	3	9.00	4.00	--	--	--	--	--
Heptachlor, suspended, total (µg/L)	2	334.00	124.00	--	--	--	--	--
Phytoplankton, total (cells/mL)	48	80000.00	52.00	8946.56	14747.38	12500.00	2600.00	465.00
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	172	2450.00	170.00	1034.29	483.40	1380.00	1080.00	646.00
Solids, sum of constituents, dissolved (mg/L)	170	2398.76	130.56	1018.36	486.55	1368.35	1061.28	635.01
Solids, dissolved (tons per day)	173	2511.49	1.38	143.88	347.52	111.04	26.57	12.18
Solids, dissolved (tons per acre-foot)	173	3.33	0.23	1.40	0.66	1.88	1.46	0.89
Sediment, suspended, sieve diameter, percent finer than .062 mm	7	100.00	91.00	95.43	3.69	100.00	95.00	91.00
Sediment, suspended, fall diameter, distilled water, percent finer than .002 mm	4	79.00	62.00	--	--	--	--	--
Sediment, suspended, fall diameter, distilled water, percent finer than .004 mm	6	91.00	55.00	79.17	13.01	90.00	80.50	78.00
Sediment, suspended, fall diameter, distilled water, percent finer than .008 mm	3	94.00	86.00	--	--	--	--	--
Sediment, suspended, fall diameter, distilled water, percent finer than .016 mm	5	98.00	80.00	91.00	6.86	95.00	92.00	90.00
Sediment, suspended, fall diameter, distilled water, percent finer than .031 mm	3	100.00	91.00	--	--	--	--	--

## 06350000 Cannonball River at Regent, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, August 1964 through September 1993

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sediment, suspended, fall diameter, distilled water, percent finer than .062 mm	9	100.00	44.00	74.67	19.09	94.00	72.00	66.00
Sediment, suspended, fall diameter, distilled water, percent finer than .125 mm	8	96.00	44.00	76.50	17.72	92.00	77.50	66.50
Sediment, suspended, fall diameter, distilled water, percent finer than .250 mm	8	100.00	58.00	90.50	14.06	99.50	95.50	88.00
Sediment, suspended, fall diameter, distilled water, percent finer than .500 mm	6	100.00	87.00	95.00	5.86	99.00	98.00	88.00
Sediment, suspended, fall diameter, distilled water, percent finer than 1.00 mm	5	100.00	88.00	97.60	5.37	100.00	100.00	100.00
Biomass-chlorophyll ratio, periphyton (units)	9	1695.65	163.69	758.96	511.28	1173.55	557.52	402.22
Chlorophyll a, periphyton, chromatographic-fluorometric (milligrams per square meter)	9	4.50	0.46	2.11	1.58	3.36	1.21	0.88
Chlorophyll b, periphyton, chromatographic-fluorometric (milligrams per square meter)	9	0.76	0.00	0.26	0.26	0.36	0.14	0.07
Nitrogen, ammonia, total (mg/L as NH4)	39	0.57	0.00	0.11	0.12	0.13	0.06	0.04
Nitrogen, nitrate, dissolved (mg/L as NO3)	99	15.00	0.00	2.03	2.33	3.00	1.10	0.50
Iron (µg/L as Fe)	42	410.00	10.00	103.81	109.65	160.00	50.00	30.00
Phosphorus, total (mg/L as PO4)	23	0.43	0.03	0.15	0.10	0.21	0.15	0.06
Nitrogen, total (mg/L as NO3)	36	7.61	2.39	4.76	1.24	5.58	4.74	4.03
Mercury, dissolved (µg/L as Hg)	24	0.40	0.00	0.15	0.13	0.30	0.10	0.05
Mercury, suspended, recoverable (µg/L as Hg)	7	0.40	0.00	0.13	0.17	0.30	0.00	0.00
Mercury, total, recoverable (µg/L as Hg)	6	0.60	0.00	0.23	0.23	0.40	0.20	0.00
Mercury, recoverable from bottom material (µg/g as Hg)	4	0.08	0.01	--	--	--	--	--
Sample purpose (codes)	1	10.00	10.00	--	--	--	--	--
Alpha, gross radioactivity, suspended, total (µg/L as U natural)	4	1.40	0.50	--	--	--	--	--
Beta, gross, dissolved (pCi/L as strontium/yttrium-90)	3	15.00	8.30	--	--	--	--	--
Beta, gross, radioactivity, suspended, total (pCi/L as strontium/yttrium-90)	5	1.50	0.50	0.94	0.37	1.00	0.90	0.80
Sediment, suspended concentration (mg/L)	69	6080.00	6.00	357.33	1066.15	132.00	87.00	46.00
Sediment discharge, suspended (tons per day)	69	25444.80	0.07	932.12	3919.76	15.73	1.42	0.69
Sediment, bed material, fall diameter, distilled water, percent finer than .062 mm	12	33.00	0.30	7.86	9.46	10.50	4.50	1.50
Sediment, bed material, fall diameter, distilled water, percent finer than .125 mm	13	41.00	1.00	12.54	13.91	16.00	7.00	2.00
Sediment, bed material, fall diameter, distilled water, percent finer than .250 mm	13	94.00	3.00	41.62	26.41	49.00	45.00	21.00
Sediment, bed material, fall diameter, distilled water, percent finer than .500 mm	13	100.00	10.00	60.46	28.24	77.00	69.00	37.00
Sediment, bed material, fall diameter, distilled water, percent finer than 1.00 mm	12	99.00	27.00	65.83	22.05	78.50	71.50	52.50
Sediment, bed material, fall diameter, distilled water, percent finer than 2.00 mm	7	100.00	64.00	81.43	12.70	93.00	84.00	70.00
Sediment, bed material, sieve diameter, percent finer than 2.00 mm	5	99.00	34.00	64.60	26.59	85.00	53.00	52.00
Sediment, bed material, sieve diameter, percent finer than 4.00 mm	11	100.00	52.00	81.09	14.96	92.00	85.00	69.00
Sediment, bed material, sieve diameter, percent finer than 8.00 mm	10	99.00	77.00	90.20	8.42	98.00	91.50	83.00
Sediment, bed material, sieve diameter, percent finer than 16.0 mm	10	100.00	90.00	97.00	4.14	100.00	100.00	92.00
Sediment, bed material, sieve diameter, percent finer than 32.0 mm	4	100.00	96.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 64.0 mm	1	100.00	100.00	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	6	6.10	3.30	4.37	0.97	4.70	4.15	3.80

## 06350000 Cannonball River at Regent, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, August 1964 through September 1993

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Hydrogen, 2/1 ratio per mil	2	10.50	5.20	--	--	--	--	--
Sampling method (codes)	49	8010.00	70.00	7847.96	1134.29	8010.00	8010.00	8010.00
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	17	2140.00	514.00	1525.06	432.43	1780.00	1604.00	1400.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	36	510.00	78.00	319.33	102.43	387.50	350.00	285.00
Conversion factor	48	262.20	4.61	39.00	49.70	46.67	16.06	12.87
Total count (cells/mL)	48	80000.00	52.00	8946.56	14747.38	12500.00	2600.00	465.00
Bicarbonate, titration to pH 4.5, laboratory (mg/L as $\text{HCO}_3$ )	27	620.00	61.00	367.78	142.15	467.00	420.00	274.00
Carbonate, titration to pH 8.3, laboratory (mg/L as $\text{CO}_3$ )	26	12.00	0.00	2.04	3.65	4.00	0.00	0.00
Algae data								
Chlamydomonadaceae	2	143.00	124.00	--	--	--	--	--
Carteria	1	139.00	139.00	--	--	--	--	--
Chlamydomonas	27	1799.00	14.00	267.00	401.71	310.00	103.00	52.00
Elakatothrix	2	182.00	101.00	--	--	--	--	--
Schroederia	3	310.00	25.00	--	--	--	--	--
Pediastrum	3	555.00	150.00	--	--	--	--	--
Ankistrodesmus	33	1930.00	5.00	469.30	587.29	728.00	151.00	62.00
Chlorella	2	349.00	39.00	--	--	--	--	--
Dictyosphaerium	11	3170.00	103.00	799.18	902.60	1147.00	504.00	149.00
Kirchneriella	9	696.00	5.00	223.22	262.64	262.00	151.00	27.00
Nephrocium	1	182.00	182.00	--	--	--	--	--
Oocystis	12	871.00	13.00	253.67	275.20	434.00	90.00	51.50
Polyedriopsis	1	25.00	25.00	--	--	--	--	--
Selenastrum	6	1964.00	13.00	529.33	724.71	551.00	247.00	154.00
Tetraedron	1	58.00	58.00	--	--	--	--	--
Westella	1	101.00	101.00	--	--	--	--	--
Chodatella	3	545.00	5.00	--	--	--	--	--
Acinastrium	6	1103.00	194.00	493.00	412.53	935.00	262.50	201.00
Crucigenia	16	4273.00	20.00	686.00	1036.81	712.50	324.00	180.50
Scenedesmus	24	2894.00	10.00	545.63	772.89	547.00	345.50	110.00
Tetrastrum	9	1378.00	31.00	353.89	432.04	414.00	233.00	52.00
Golenkinia	2	291.00	143.00	--	--	--	--	--
Microcystium	3	704.00	325.00	--	--	--	--	--
Closterium	2	281.00	227.00	--	--	--	--	--
Cosmarium	1	14.00	14.00	--	--	--	--	--
Euglena	16	728.00	26.00	243.88	241.20	368.00	127.50	75.50
Trachelomonas	27	1876.00	7.00	245.18	370.85	291.00	101.00	50.00
Chroomonas	1	85.00	85.00	--	--	--	--	--

## 06350000 Cannonball River at Regent, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, August 1964 through September 1993

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Algae data--Continued								
Rhodomonas	1	310.00	310.00	--	--	--	--	--
Cryptomonas	1	207.00	207.00	--	--	--	--	--
Chroomonas	3	52.00	15.00	--	--	--	--	--
Cryptomonas	5	154.00	14.00	46.80	60.18	26.00	25.00	15.00
Gymnodinium	1	15.00	15.00	--	--	--	--	--
Glenodinium	6	26.00	10.00	21.00	7.43	26.00	25.50	13.00
Peridinium	2	34.00	14.00	--	--	--	--	--
Centrictacus	1	75.00	75.00	--	--	--	--	--
Ophiocytium	2	156.00	25.00	--	--	--	--	--
Ochromonas	1	360.00	360.00	--	--	--	--	--
Cyclotella	28	5244.00	5.00	318.68	976.87	251.00	77.00	26.00
Melosira	4	3721.00	7.00	--	--	--	--	--
Stephanodiscus	2	50.00	14.00	--	--	--	--	--
Skeletonema	1	2791.00	2791.00	--	--	--	--	--
Diatoma	3	325.00	64.00	--	--	--	--	--
Asterionella	1	39.00	39.00	--	--	--	--	--
Fragilaria	3	281.00	10.00	--	--	--	--	--
Synedra	11	342.00	8.00	62.82	101.01	67.00	15.00	14.00
Achnanthes	2	13.00	8.00	--	--	--	--	--
Cocconeis	4	14.00	5.00	--	--	--	--	--
Entomoneis	1	7.00	7.00	--	--	--	--	--
Diploneis	1	308.00	308.00	--	--	--	--	--
Gyrosigma	2	31.00	13.00	--	--	--	--	--
Navicula	29	413.00	5.00	68.03	85.05	93.00	31.00	15.00
Pinnularia	1	22.00	22.00	--	--	--	--	--
Stauroneis	1	5.00	5.00	--	--	--	--	--
Gomphonema	3	1355.00	7.00	--	--	--	--	--
Cymbella	4	51.00	7.00	--	--	--	--	--
Nitzschia	21	2098.00	13.00	377.33	479.38	521.00	225.00	90.00
Surirella	3	29.00	7.00	--	--	--	--	--
Anacystis	17	2626.00	8.00	593.35	696.16	787.00	353.00	150.00
Agmenellum	3	1241.00	186.00	--	--	--	--	--
Lyngbya	5	2481.00	420.00	1035.80	859.65	1160.00	654.00	464.00
Oscillatoria	4	1748.00	420.00	--	--	--	--	--
Spirulina	1	162.00	162.00	--	--	--	--	--
Anabaenopsis	2	1930.00	656.00	--	--	--	--	--

06350000 Cannonball River at Regent, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, August 1964 through September 1993

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median	25
Algae data--Continued								
Aphanizomenon	1	2378.00	2378.00	--	--	--	--	--
Raphidiopsis	2	5098.00	193.00	--	--	--	--	--

Summary of daily streamflow data, September 1950 through September 1993

Month	Descriptive statistics					Percent of days that had values less than or equal to those shown in ft <sup>3</sup> /s				
	Maximum (ft <sup>3</sup> /s)	Minimum (ft <sup>3</sup> /s)	Mean (ft <sup>3</sup> /s)	Standard deviation (ft <sup>3</sup> /s)	Coefficient of variation	Percent of annual runoff	95	75	Median	5
October	1010.00	0.58	8.74	40.67	465.51	1.7	19.00	6.00	3.80	2.40
November	294.00	0.60	6.03	11.74	194.71	1.2	15.00	5.90	4.00	3.00
December	22.00	0.00	4.13	3.26	79.00	0.8	11.00	5.00	3.20	2.10
January	180.00	0.00	5.14	15.80	307.51	1.0	9.50	4.00	2.00	1.00
February	2470.00	0.00	23.24	144.17	620.23	4.2	75.00	5.70	2.80	1.00
March	7880.00	0.00	137.58	489.30	355.65	27.5	750.00	60.00	13.00	5.00
April	7070.00	2.50	124.83	473.24	379.09	24.1	582.00	45.00	19.00	8.07
May	5000.00	0.00	65.25	272.27	417.28	13.0	252.06	26.00	9.90	5.00
June	5360.00	0.00	82.62	304.63	368.70	16.0	405.00	35.00	12.00	5.10
July	2660.00	0.00	27.76	122.89	442.72	5.5	89.00	17.00	7.30	3.20
August	3200.00	0.00	18.91	123.23	651.81	3.8	36.74	7.10	3.90	1.80
September	173.00	0.30	5.14	10.13	196.94	1.0	11.00	5.60	3.50	2.00
Annual	7880.00	0.00	42.46	243.12	572.61	100.0	119.00	12.00	4.90	2.50

## 06351000 Cannonball River below Bentley, North Dakota

LOCATION.--Lat. 46°21'30", long. 102°02'30", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 6, T. 133 N., R. 90 W., Grant County, Hydrologic Unit 10130204, on left bank 0.25 mi downstream from Thirty Mile Creek, and 2 mi northeast of Bentley.

DRAINAGE AREA.--1,140 mi<sup>2</sup>, approximately.

Summary of water-quality data collected at periodic intervals, October 1971 through April 1982

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	157	29.00	0.00	8.90	8.94	17.00	6.00	0.00
Temperature, air (degrees Celsius)	13	30.00	-8.00	13.08	11.84	22.00	13.00	4.00
Agency collecting sample (code number)	4	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	12	38002.00	1028.00	25677.33	18204.74	38002.00	38002.00	1028.00
Discharge (cubic feet per second)	38	8830.00	5.60	624.28	1922.82	133.00	32.50	14.00
Discharge, instantaneous (cubic feet per second)	120	9290.00	1.30	400.83	1364.69	57.50	15.50	8.35
Specific conductance (µS/cm at 25 degrees Celsius)	146	6930.00	300.00	1856.06	764.00	2240.00	1860.00	1470.00
pH, water, whole, field (standard units)	39	8.80	6.80	8.05	0.34	8.20	8.10	7.90
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	39	30.00	0.70	6.72	6.36	7.40	4.60	3.30
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	39	582.00	91.00	311.31	103.63	370.00	331.00	259.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	39	710.00	111.00	377.46	126.33	449.00	404.00	306.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	39	14.00	0.00	1.00	3.01	0.00	0.00	0.00
Nitrogen, nitrate, dissolved (mg/L as N)	32	3.80	0.05	0.61	0.84	0.56	0.23	0.23
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	32	0.22	0.00	0.06	0.05	0.09	0.05	0.03
Phosphorus, orthophosphate, dissolved (mg/L as P)	24	0.07	0.00	0.02	0.02	0.03	0.02	0.01
Hardness, total (mg/L as CaCO <sub>3</sub> )	39	1033.60	160.67	512.06	197.73	620.69	479.86	380.76
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	39	670.00	22.00	201.82	145.58	250.00	170.00	91.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	89.00	22.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	39	160.00	32.00	85.87	29.25	100.00	80.00	69.00
Magnesium, dissolved (mg/L as Mg)	39	160.00	19.00	72.26	32.04	86.00	72.00	50.00
Sodium, dissolved (mg/L as Na)	39	480.00	55.00	265.87	108.31	350.00	270.00	190.00
Sodium adsorption ratio	39	7.95	1.70	5.02	1.55	5.82	5.16	4.13
Sodium (percent)	39	64.02	36.31	51.55	6.36	55.87	52.20	46.51
Potassium, dissolved (mg/L as K)	39	14.00	5.20	8.14	1.68	8.80	7.80	7.10
Chloride, dissolved (mg/L as Cl)	39	17.00	3.10	9.88	3.39	12.00	10.00	7.90
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	39	1650.00	170.00	753.59	321.61	940.00	730.00	530.00
Fluoride, dissolved (mg/L as F)	39	0.90	0.10	0.34	0.21	0.40	0.30	0.20
Silica, dissolved (mg/L as SiO <sub>2</sub> )	39	8.80	0.30	4.63	2.26	6.10	4.20	3.20
Boron, dissolved (µg/L as B)	36	1600.00	40.00	576.94	364.97	725.00	520.00	285.00
Iron, dissolved (µg/L as Fe)	33	630.00	0.00	136.06	148.68	200.00	80.00	20.00
Manganese, dissolved (µg/L as Mn)	32	260.00	0.00	75.00	57.47	120.00	60.00	40.00
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	39	2800.00	362.00	1415.59	553.18	1780.00	1390.00	1010.00



## 06351000 Cannonball River below Bentley, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1971 through April 1982

Water-quality constituent	Descriptive statistics						Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation		75	Median	25
Solids, sum of constituents, dissolved (mg/L)	39	2689.20	345.53	1390.13	527.33		1757.94	1391.54	1028.34
Solids, dissolved (tons per day)	39	3777.84	11.48	371.68	799.45		242.14	74.24	29.33
Solids, dissolved (tons per acre-foot)	39	3.81	0.49	1.92	0.75		2.42	1.89	1.37
Nitrogen, nitrate, dissolved (mg/L as NO3)	32	17.00	0.20	2.68	3.75		2.50	1.00	1.00
Sediment, bed material, fall diameter, distilled water, percent finer than .125 mm	1	9.00	9.00	--	--		--	--	--
Sediment, bed material, fall diameter, distilled water, percent finer than .250 mm	1	41.00	41.00	--	--		--	--	--
Sediment, bed material, fall diameter, distilled water, percent finer than .500 mm	1	71.00	71.00	--	--		--	--	--
Sediment, bed material, fall diameter, distilled water, percent finer than 1.00 mm	1	90.00	90.00	--	--		--	--	--
Sediment, bed material, sieve diameter, percent finer than .062 mm	1	5.00	5.00	--	--		--	--	--
Sediment, bed material, sieve diameter, percent finer than 2.00 mm	1	95.00	95.00	--	--		--	--	--
Sediment, bed material, sieve diameter, percent finer than 4.00 mm	1	97.00	97.00	--	--		--	--	--
Sediment, bed material, sieve diameter, percent finer than 8.00 mm	1	98.00	98.00	--	--		--	--	--
Sediment, bed material, sieve diameter, percent finer than 16.0 mm	1	100.00	100.00	--	--		--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO3)	2	348.00	343.00	--	--		--	--	--
Bicarbonate, titration to pH 4.5, laboratory (mg/L as HCO3)	2	424.00	418.00	--	--		--	--	--
Carbonate, titration to pH 8.3, laboratory (mg/L as CO3)	2	0.00	0.00	--	--		--	--	--

06351000 Cannonball River below Bentley, North Dakota--Continued  
Summary of daily streamflow data, April 1943 through December 1981

Month	Descriptive statistics					Percent of annual runoff	Percent of days that had values less than or equal to those shown in ft <sup>3</sup> /s				
	Maximum (ft <sup>3</sup> /s)	Minimum (ft <sup>3</sup> /s)	Mean (ft <sup>3</sup> /s)	Standard deviation (ft <sup>3</sup> /s)	Coefficient of variation		95	75	Median 50	25	5
October	231.00	0.40	12.31	23.23	188.78	1.2	30.00	13.00	7.60	4.30	1.70
November	94.00	1.70	10.89	7.45	68.38	1.0	24.00	13.00	9.10	7.00	3.20
December	29.00	0.90	7.73	4.81	62.17	0.7	16.00	10.00	6.90	4.00	2.00
January	438.00	0.00	8.60	26.23	304.95	0.8	14.00	7.50	4.00	2.00	0.50
February	1000.00	0.00	26.27	81.39	309.86	2.2	120.00	12.00	5.60	3.00	0.10
March	10700.00	0.00	275.09	888.65	323.04	25.8	1460.00	120.00	22.00	9.00	2.00
April	37100.00	3.50	348.22	1680.13	482.49	32.4	1430.00	140.00	50.00	22.00	9.80
May	6130.00	2.70	119.46	432.77	362.27	11.5	500.00	50.00	23.00	12.00	5.70
June	6290.00	0.80	163.57	435.76	266.41	15.2	758.00	102.00	38.00	16.00	6.20
July	2980.00	0.00	58.51	166.78	285.04	5.6	200.00	42.00	19.00	9.80	2.10
August	2050.00	0.00	25.34	90.49	357.16	2.4	88.00	16.00	8.80	4.10	0.70
September	509.00	0.00	10.87	28.49	262.12	1.0	24.00	11.00	6.60	3.20	0.44
Annual	37100.00	0.00	88.98	589.41	662.39	100.0	270.00	28.00	11.00	5.40	1.20

06351680 White Butte Fork Cedar Creek near Scranton, North Dakota

LOCATION. --Lat. 46°19'20", long. 102°59'45", in NW<sup>1</sup>/<sub>4</sub> sec. 21, T. 133 N., R. 98 W., Slope County, Hydrologic Unit 10130205, on left bank 1,200 ft downstream from county highway bridge, and 13 mi northeast of Scranton.

DRAINAGE AREA.--43 mi<sup>2</sup>.

Summary of water-quality data collected at periodic intervals, October 1971 through July 1993

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	151	27.00	0.00	8.52	8.60	15.00	6.50	0.50
Temperature, air (degrees Celsius)	57	33.50	-4.00	12.66	9.26	20.00	13.00	5.00
Barometric pressure (mm of Hg)	2	690.00	685.00	--	--	--	--	--
Agency collecting sample (code number)	54	38002.00	1028.00	1712.70	5031.52	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	61	38002.00	1028.00	13756.75	17713.14	38002.00	1028.00	1028.00
Discharge (cubic feet per second)	28	235.00	0.01	16.25	47.22	9.00	1.14	0.45
Discharge, instantaneous (cubic feet per second)	122	447.00	0.01	15.37	60.81	2.26	0.62	0.17
Specific conductance (µS/cm at 25 degrees Celsius)	14	5630.00	487.00	2951.93	1779.27	4310.00	3035.00	929.00
Specific conductance (µS/cm at 25 degrees Celsius)	148	6500.00	296.00	3021.12	1374.67	4000.00	3165.00	1980.00
pH, water, whole, field (standard units)	34	8.80	6.90	7.95	0.41	8.20	8.00	7.70
pH, water, whole, laboratory (standard units)	17	8.50	6.70	7.66	0.53	7.95	7.80	7.41
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	16	18.00	1.80	6.99	5.12	9.70	5.85	2.90
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	16	594.00	93.00	278.75	133.32	370.00	250.50	165.50
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	16	724.00	113.00	338.63	162.44	451.00	305.50	202.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	16	5.00	0.00	0.56	1.55	0.00	0.00	0.00
Nitrogen, nitrate, dissolved (mg/L as N)	13	3.60	0.23	0.56	0.92	0.52	0.23	0.23
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	12	1.20	0.00	0.15	0.34	0.10	0.04	0.01
Phosphorus, orthophosphate, dissolved (mg/L as P)	5	0.39	0.00	0.09	0.17	0.03	0.01	0.00
Hardness, total (mg/L as CaCO <sub>3</sub> )	34	2273.06	119.52	1058.37	651.70	1587.87	1188.19	301.36
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	16	1700.00	110.00	953.13	521.98	1300.00	1100.00	570.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	3	1700.00	570.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	34	750.00	23.00	188.12	143.68	240.00	180.00	58.00
Magnesium, dissolved (mg/L as Mg)	34	320.00	15.00	142.50	96.04	220.00	140.00	38.00
Sodium, dissolved (mg/L as Na)	34	920.00	37.00	428.59	279.62	650.00	440.00	140.00
Sodium adsorption ratio	34	10.00	1.36	5.35	2.41	7.20	5.58	3.28
Sodium (percent)	34	55.31	30.65	45.07	6.18	49.07	46.06	40.85
Potassium, dissolved (mg/L as K)	34	30.00	4.70	12.18	4.82	14.00	12.00	9.20
Chloride, dissolved (mg/L as Cl)	34	180.00	3.00	22.60	29.63	26.00	19.00	7.60
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	34	3400.00	130.00	1682.65	1110.38	2610.00	1550.00	390.00
Fluoride, dissolved (mg/L as F)	34	0.40	0.10	0.21	0.10	0.30	0.20	0.10
Silica, dissolved (mg/L as SiO <sub>2</sub> )	33	23.00	0.10	6.03	5.24	8.90	5.30	1.30
Arsenic, dissolved (µg/L as As)	17	46.00	0.00	4.29	10.80	2.00	2.00	1.00

## 06351680 White Butte Fork Cedar Creek near Scranton, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1971 through July 1993

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown	
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50 25
Boron, dissolved (µg/L as B)	34	2200.00	40.00	808.23	545.03	1200.00	785.00 350.00
Iron, dissolved (µg/L as Fe)	34	1600.00	10.00	161.47	271.31	160.00	100.00 40.00
Lead, dissolved (µg/L as Pb)	9	2.00	0.00	0.89	0.93	2.00	1.00 0.00
Manganese, dissolved (µg/L as Mn)	34	800.00	10.00	271.77	226.17	400.00	185.00 80.00
Molybdenum, dissolved (µg/L as Mo)	16	6.00	1.00	2.00	1.46	2.00	2.00 1.00
Strontium, dissolved (µg/L as Sr)	18	6100.00	260.00	2716.67	2082.21	4400.00	2450.00 690.00
Lithium, dissolved (µg/L as Li)	18	200.00	10.00	66.83	54.76	110.00	55.00 12.00
Selenium, dissolved (µg/L as Se)	12	8.00	0.00	1.42	2.28	1.50	1.00 0.00
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	34	5200.00	322.00	2738.32	1687.63	4160.00	2700.00 836.00
Solids, sum of constituents, dissolved (mg/L)	34	5288.03	296.79	2626.87	1625.92	3990.21	2508.32 829.16
Solids, dissolved (tons per day)	34	444.14	0.07	26.91	78.95	18.70	2.97 0.28
Solids, dissolved (tons per acre-foot)	34	7.07	0.44	3.72	2.30	5.66	3.67 1.14
Nitrogen, nitrate, dissolved (mg/L as NO3)	15	16.00	1.00	2.31	3.84	2.50	1.00 1.00
Mercury, dissolved (µg/L as Hg)	9	0.50	0.10	0.24	0.17	0.30	0.20 0.10
Specific conductance (µS/cm at 25 degrees Celsius)	4	3140.00	562.00	--	--	--	-- --
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO3)	20	594.00	70.00	214.70	131.02	300.00	204.00 110.00
Bicarbonate, titration to pH 4.5, laboratory (mg/L as HCO3)	18	724.00	84.00	268.11	163.16	388.00	243.50 136.00
Carbonate, titration to pH 8.3, laboratory (mg/L as CO3)	18	7.00	0.00	0.39	1.65	0.00	0.00 0.00
Quality assurance data type associated with sample	1	30.00	30.00	--	--	--	-- --

06351680 White Butte Fork Cedar Creek near Scranton, North Dakota--Continued

Summary of daily streamflow data, April 1965 through September 1993 (seasonal records only since 1984)

Month	Descriptive statistics					Percent of annual runoff	Percent of days that had values less than or equal to those shown in ft <sup>3</sup> /s				
	Maximum (ft <sup>3</sup> /s)	Minimum (ft <sup>3</sup> /s)	Mean (ft <sup>3</sup> /s)	Standard deviation (ft <sup>3</sup> /s)	Coefficient of variation		95	75	Median 50	25	5
October	275.00	0.00	1.58	14.46	912.90	2.5	2.30	0.24	0.00	0.00	0.00
November	25.00	0.00	0.43	1.30	303.21	0.6	1.60	0.42	0.09	0.01	0.00
December	1.50	0.00	0.22	0.30	136.04	0.3	0.90	0.27	0.10	0.00	0.00
January	60.00	0.00	0.68	3.81	561.26	1.0	1.80	0.29	0.00	0.00	0.00
February	125.00	0.00	1.88	8.03	427.24	3.9	10.00	0.37	0.00	0.00	0.00
March	475.00	0.00	11.58	45.28	390.98	27.4	50.00	4.05	0.80	0.15	0.00
April	470.00	0.00	10.96	34.25	312.57	25.9	60.00	5.40	1.20	0.20	0.01
May	428.00	0.00	8.12	33.32	410.37	19.9	35.00	2.50	0.65	0.08	0.00
June	311.00	0.00	4.35	18.92	435.02	10.2	20.00	1.50	0.24	0.00	0.00
July	329.00	0.00	2.54	18.27	718.32	5.9	6.90	0.35	0.01	0.00	0.00
August	203.00	0.00	0.95	10.06	1061.84	2.2	0.62	0.01	0.00	0.00	0.00
September	4.70	0.00	0.04	0.22	574.53	0.1	0.20	0.00	0.00	0.00	0.00
Annual	475.00	0.00	4.07	23.10	567.03	100.0	14.00	0.75	0.08	0.00	0.00

06352000 Cedar Creek near Haynes, North Dakota

LOCATION.--Lat. 46°09'15", long. 102°28'25", in W<sup>1</sup>/<sub>2</sub> sec. 20, T. 131 N., R. 94 W., Adams County, Hydrologic Unit 10130205, on left bank 30 ft downstream from bridge on State Highway 8, and 12.5 mi north of Haynes.

DRAINAGE AREA.--553 mi<sup>2</sup>.

Summary of water-quality data collected at periodic intervals, October 1978 through September 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	261	28.50	0.00	8.77	9.05	16.50	6.00	0.50
Temperature, air (degrees Celsius)	115	38.00	-22.00	12.03	12.54	22.00	13.00	3.00
Barometric pressure (mm of Hg)	3	708.00	3.00	--	--	--	--	--
Agency collecting sample (code number)	113	38002.00	1028.00	1355.20	3478.22	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	121	38002.00	1028.00	9278.40	15458.20	1028.00	1028.00	1028.00
Discharge (cubic feet per second)	35	5060.00	1.30	401.62	1108.88	159.00	19.00	9.80
Discharge, instantaneous (cubic feet per second)	227	6820.00	0.16	171.86	784.58	19.00	4.70	2.10
Gage height (feet)	1	3.23	3.23	--	--	--	--	--
Color (platinum cobalt scale)	1	40.00	40.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	16	2770.00	568.00	1619.31	688.57	2140.00	1770.00	1027.00
Specific conductance (µS/cm at 25 degrees Celsius)	259	5000.00	255.00	2094.64	809.68	2550.00	2130.00	1630.00
Sample treatment (codes)	1	1.00	1.00	--	--	--	--	--
pH, water, whole, field (standard units)	59	9.30	7.10	8.17	0.38	8.30	8.15	8.00
pH, water, whole, laboratory (standard units)	19	9.40	6.79	8.24	0.71	8.52	8.30	8.03
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	35	22.00	1.60	6.28	4.69	7.20	5.70	3.10
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	35	564.00	98.00	335.34	112.28	410.00	373.00	275.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	35	688.00	120.00	405.23	135.87	498.00	455.00	335.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	33	21.00	0.00	1.91	5.40	0.00	0.00	0.00
Nitrogen, nitrate, dissolved (mg/L as N)	29	3.20	0.09	0.58	0.68	0.81	0.23	0.23
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.03	0.03	--	--	--	--	--
Phosphate, total (mg/L as PO <sub>4</sub> )	1	0.00	0.00	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	25	0.81	0.00	0.08	0.16	0.06	0.03	0.01
Phosphorus, orthophosphate, dissolved (mg/L as P)	1	0.02	0.02	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	14	0.08	0.00	0.02	0.02	0.03	0.02	0.01
Cyanide, total (mg/L as Cn)	1	0.00	0.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	59	1276.01	91.14	552.54	289.11	743.98	502.95	329.50
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	35	860.00	0.00	317.43	237.51	460.00	310.00	100.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	3	690.00	37.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	59	190.00	19.00	83.22	42.85	110.00	78.00	46.00
Magnesium, dissolved (mg/L as Mg)	59	200.00	10.00	83.58	45.67	120.00	75.00	48.00
Sodium, dissolved (mg/L as Na)	59	700.00	25.00	279.63	139.07	360.00	300.00	190.00
Sodium adsorption ratio	59	9.71	1.13	5.06	1.77	6.47	5.23	4.24

## Summary of water-quality data collected at periodic intervals, October 1978 through September 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sodium (percent)	59	65.50	33.49	50.94	7.40	57.31	49.45	45.44
Potassium, dissolved (mg/L as K)	59	15.00	5.00	10.20	2.35	12.00	10.00	8.70
Chloride, dissolved (mg/L as Cl)	59	25.00	1.70	10.98	4.74	14.00	11.00	7.20
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	59	2100.00	66.00	829.03	468.16	1100.00	800.00	480.00
Fluoride, dissolved (mg/L as F)	59	1.10	0.10	0.37	0.20	0.50	0.40	0.20
Silica, dissolved (mg/L as SiO <sub>2</sub> )	59	8.20	0.30	4.09	2.23	6.10	4.00	2.30
Arsenic, dissolved (µg/L as As)	23	29.00	0.00	2.83	5.84	2.00	1.00	1.00
Boron, dissolved (µg/L as B)	59	3000.00	60.00	599.83	458.02	790.00	520.00	260.00
Iron, dissolved (µg/L as Fe)	54	800.00	0.00	99.63	134.45	120.00	55.00	20.00
Lead, dissolved (µg/L as Pb)	9	1.00	0.00	0.33	0.50	1.00	0.00	0.00
Manganese, dissolved (µg/L as Mn)	53	250.00	10.00	83.96	56.03	110.00	80.00	40.00
Molybdenum, dissolved (µg/L as Mo)	17	8.00	1.00	3.18	2.27	4.00	3.00	1.00
Nickel, dissolved (µg/L as Ni)	1	40.00	40.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	24	2400.00	160.00	1029.17	612.68	1350.00	965.00	595.00
Vanadium, dissolved (µg/L as V)	1	0.00	0.00	--	--	--	--	--
Aluminum, dissolved (µg/L as Al)	1	30.00	30.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	24	97.00	9.00	50.38	26.13	70.50	57.50	30.00
Selenium, dissolved (µg/L as Se)	17	32.00	0.00	2.71	7.60	1.00	1.00	0.00
Iron 59, dissolved (pCi/L)	1	8.00	8.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	59	3490.00	194.00	1513.76	756.97	1950.00	1530.00	939.00
Solids, sum of constituents, dissolved (mg/L)	59	3314.48	195.67	1490.26	738.35	1943.53	1510.87	905.12
Solids, dissolved (tons per day)	59	3169.13	0.55	235.30	564.06	134.30	28.87	6.11
Solids, dissolved (tons per acre-foot)	59	4.75	0.26	2.06	1.03	2.65	2.08	1.28
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	31	14.00	0.40	2.34	2.88	2.50	1.00	1.00
Mercury, dissolved (µg/L as Hg)	15	0.30	0.00	0.15	0.08	0.20	0.20	0.10
Sample purpose (codes)	1	10.00	10.00	--	--	--	--	--
Sampling method (codes)	1	70.00	70.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	5	2850.00	322.00	1430.40	913.94	1500.00	1340.00	1140.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	25	440.00	60.00	291.48	114.15	370.00	330.00	220.00
Bicarbonate, titration to pH 4.5, laboratory (mg/L as HCO <sub>3</sub> )	24	531.00	48.00	335.67	141.91	426.50	393.50	212.50
Carbonate, titration to pH 8.3, laboratory (mg/L as CO <sub>3</sub> )	24	55.00	0.00	7.67	13.78	11.00	0.00	0.00
Quality assurance data type associated with sample	3	30.00	30.00	--	--	--	--	--

## 06352000 Cedar Creek near Haynes, North Dakota--Continued

Summary of daily streamflow data, October 1950 through September 1993

Month	Descriptive statistics					Percent of annual runoff	Percent of days that had values less than or equal to those shown in ft <sup>3</sup> /s				
	Maximum (ft <sup>3</sup> /s)	Minimum (ft <sup>3</sup> /s)	Mean (ft <sup>3</sup> /s)	Standard deviation (ft <sup>3</sup> /s)	Coefficient of variation		95	75	Median 50	25	5
October	199.00	0.00	4.34	10.58	243.58	1.1	16.00	3.80	1.50	0.90	0.40
November	210.00	0.30	4.67	11.48	245.82	1.1	12.00	4.20	2.80	1.60	0.80
December	31.00	0.00	3.28	3.48	106.14	0.8	9.00	4.00	2.40	1.50	0.45
January	210.00	0.00	4.38	15.57	355.72	1.1	6.50	3.00	2.00	1.00	0.00
February	1320.00	0.00	14.28	75.11	525.91	3.3	50.00	5.50	2.00	1.00	0.00
March	6540.00	0.00	108.59	441.53	406.60	27.6	450.00	48.00	10.00	4.00	0.90
April	7060.00	0.80	115.13	450.88	391.63	28.3	550.00	39.00	15.00	5.00	2.10
May	3100.00	0.40	55.43	197.64	356.54	14.3	260.30	24.00	7.40	2.80	1.30
June	2980.00	0.10	57.39	181.99	317.13	14.4	270.50	33.00	8.85	2.61	0.59
July	1250.00	0.00	17.52	68.46	390.71	4.5	53.50	10.00	3.86	1.20	0.20
August	843.00	0.00	10.10	46.11	456.50	2.6	30.00	4.30	1.40	0.49	0.00
September	121.00	0.00	2.93	6.94	236.59	0.7	8.70	2.70	1.50	0.66	0.00
Annual	7060.00	0.00	33.23	204.47	615.27	100.0	100.00	8.70	3.00	1.30	0.28



LOCATION.--Lat. 46°06'05", long. 101°57'26", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec. 8, T. 130 N., R. 90 W., Grant County, Hydrologic Unit 10130205, on left bank 100 ft upstream from bridge on North Dakota Highway 49, 17 mi southeast of Bentley, and 7 mi upstream from mouth.

DRAINAGE AREA.--100 mi<sup>2</sup>, approximately.

Summary of water-quality data collected at periodic intervals, October 1977 through September 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown	
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50 25
Water temperature (degrees Celsius)	55	28.00	-0.50	9.90	9.15	19.00	8.50 0.00
Temperature, air (degrees Celsius)	54	33.50	-25.00	10.12	13.47	20.00	10.25 3.00
Length of exposure (days)	15	56.00	13.00	28.00	11.19	35.00	27.00 21.00
Agency collecting sample (code number)	46	1028.00	1028.00	1028.00	0.00	1028.00	1028.00 1028.00
Agency analyzing sample (code number)	85	80020.00	80010.00	80010.59	2.37	80010.00	80010.00 80010.00
Discharge, instantaneous (cubic feet per second)	56	2140.00	0.14	50.68	287.38	4.10	1.50 0.74
Color (platinum cobalt scale)	2	30.50	12.00	--	--	--	-- --
Oxidation reduction potential (millivolts)	1	1100.00	1100.00	--	--	--	-- --
Specific conductance, field (µS/cm at 25 degrees Celsius)	50	4250.00	810.00	2760.00	779.10	3400.00	2600.00 2220.00
Oxygen, dissolved (mg/L)	47	14.50	3.70	10.35	2.56	12.40	10.30 8.50
Oxygen, dissolved (percent saturation)	47	176.00	46.00	96.51	23.61	107.00	100.00 82.00
pH, water, whole, field (standard units)	50	8.80	7.50	8.13	0.27	8.30	8.20 7.90
pH, water, whole, laboratory (standard units)	12	8.40	7.90	8.12	0.15	8.20	8.10 8.00
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	37	34.00	0.40	8.01	7.80	8.80	4.60 3.70
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	35	820.00	100.00	417.26	149.05	451.00	392.00 338.00
Alkalinity, carbonate (mg/L as CaCO <sub>3</sub> )	15	570.00	160.00	390.53	99.29	450.00	360.00 350.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	37	870.00	43.60	488.16	176.66	550.00	478.00 403.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	36	14.00	0.00	0.86	2.80	0.00	0.00 0.00
Biomass, periphyton ash weight (grams per square meter)	15	15.80	0.55	5.92	4.57	9.06	5.35 2.68
Biomass, periphyton dry weight total (grams per square meter)	15	17.60	0.63	7.72	5.21	10.60	7.40 3.54
Nitrogen, total (mg/L as N)	35	6.20	0.56	2.19	1.52	3.40	1.42 1.13
Nitrogen, dissolved (mg/L as N)	3	3.70	1.98	--	--	--	-- --
Nitrogen, organic, total (mg/L as N)	39	3.42	0.42	1.00	0.50	1.22	1.02 0.69
Nitrogen, organic, dissolved (mg/L as N)	1	0.00	0.00	--	--	--	-- --
Nitrogen, ammonia, dissolved (mg/L as N)	1	1.10	1.10	--	--	--	-- --
Nitrogen, ammonia, total (mg/L as N)	35	0.37	0.00	0.10	0.08	0.14	0.08 0.03
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	3	1.50	1.10	--	--	--	-- --
Nitrogen, ammonia plus organic, suspended, total (mg/L as N)	3	0.30	0.00	--	--	--	-- --
Nitrogen, ammonia plus organic, total (mg/L as N)	39	3.50	0.55	1.09	0.50	1.30	1.10 0.72
Nitrogen, nitrite plus nitrate, total (mg/L as N)	35	4.80	0.00	1.12	1.46	2.40	0.25 0.02
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	15	4.10	0.00	1.28	1.27	2.20	0.90 0.15
Phosphate, total (mg/L as PO <sub>4</sub> )	2	0.18	0.03	--	--	--	-- --

## 06352400 Timber Creek near Bentley, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1977 through September 1981

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median	25
Phosphorus, total (mg/L as P)	39	1.30	0.00	0.08	0.20	0.06	0.04	0.03
Phosphorus, dissolved (mg/L as P)	36	0.08	0.00	0.02	0.02	0.03	0.02	0.01
Carbon, organic, dissolved (mg/L as C)	37	41.00	5.50	16.60	7.01	20.00	15.00	12.00
Carbon, organic, suspended, total (mg/L as C)	36	2.70	0.00	0.71	0.57	0.95	0.50	0.35
Cyanide, total (mg/L as Cn)	3	0.00	0.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	47	1174.69	229.23	734.11	240.05	910.04	736.54	551.51
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	47	830.00	78.00	336.55	171.86	430.00	330.00	190.00
Calcium, dissolved (mg/L as Ca)	47	190.00	39.00	117.70	37.92	150.00	120.00	90.00
Magnesium, dissolved (mg/L as Mg)	47	180.00	32.00	106.81	37.05	130.00	100.00	79.00
Sodium, dissolved (mg/L as Na)	47	670.00	70.00	410.68	139.97	540.00	390.00	320.00
Sodium adsorption ratio	47	9.52	2.01	6.55	1.58	7.57	6.42	5.60
Sodium (percent)	47	64.72	38.77	54.02	5.79	58.24	54.35	51.18
Sodium plus potassium, dissolved (mg/L as Na)	12	680.00	80.00	393.92	219.21	575.00	395.00	211.50
Potassium, dissolved (mg/L as K)	47	20.00	1.20	12.01	3.33	14.00	12.00	9.90
Chloride, dissolved (mg/L as Cl)	47	510.00	3.40	24.29	72.57	16.00	14.00	10.00
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	47	2100.00	270.00	1158.51	399.64	1500.00	1100.00	860.00
Fluoride, dissolved (mg/L as F)	46	0.90	0.10	0.34	0.12	0.40	0.30	0.30
Silica, dissolved (mg/L as SiO <sub>2</sub> )	47	14.00	0.10	4.88	4.08	7.30	3.60	1.60
Arsenic, dissolved (µg/L as As)	14	3.00	0.00	1.64	0.84	2.00	2.00	1.00
Arsenic, suspended, total (µg/L as As)	5	1.00	0.00	0.40	0.55	1.00	0.00	0.00
Arsenic, total (µg/L as As)	9	3.00	0.00	2.22	1.09	3.00	3.00	2.00
Arsenic, total in bottom material (µg/g as As)	8	60.00	7.00	20.63	17.37	24.00	14.00	11.00
Barium, dissolved (µg/L as Ba)	10	200.00	0.00	85.00	72.00	150.00	50.00	40.00
Barium, suspended, recoverable (µg/L as Ba)	6	200.00	0.00	75.00	68.92	100.00	50.00	50.00
Barium, total (µg/L as Ba)	8	200.00	70.00	146.25	58.29	200.00	150.00	100.00
Barium, total in bottom material (µg/g as Ba)	7	300.00	70.00	121.29	79.91	110.00	100.00	84.00
Beryllium, dissolved (µg/L as Be)	3	5.00	0.00	--	--	--	--	--
Beryllium, suspended, recoverable (µg/L as Be)	4	0.00	0.00	--	--	--	--	--
Beryllium, total (µg/L as Be)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Beryllium, total in bottom material (µg/g as Be)	7	1.00	0.00	0.57	0.54	1.00	1.00	0.00
Boron, dissolved (µg/L as B)	46	1300.00	160.00	653.48	229.24	770.00	650.00	510.00
Cadmium, dissolved (µg/L as Cd)	4	2.00	0.00	--	--	--	--	--
Cadmium, suspended (µg/L as Cd)	3	4.00	0.00	--	--	--	--	--
Cadmium, total (µg/L as Cd)	4	6.00	0.00	--	--	--	--	--
Cadmium, total in bottom material (µg/g as Cd)	5	1.00	0.00	0.20	0.45	0.00	0.00	0.00
Chromium, total in bottom material (µg/g as Cr)	8	14.00	2.00	6.25	3.88	8.00	5.00	4.00
Chromium, dissolved (µg/L as Cr)	8	10.00	0.00	3.50	4.87	9.00	0.00	0.00

## 06352400 Timber Creek near Bentley, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1977 through September 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Chromium, suspended ( $\mu\text{g/L}$ as Cr)	7	10.00	0.00	2.86	4.88	10.00	0.00	0.00
Chromium, total ( $\mu\text{g/L}$ as Cr)	6	10.00	0.00	5.00	5.48	10.00	5.00	0.00
Cobalt, dissolved ( $\mu\text{g/L}$ as Co)	1	0.00	0.00	--	--	--	--	--
Cobalt, suspended ( $\mu\text{g/L}$ as Co)	2	0.00	0.00	--	--	--	--	--
Cobalt, total ( $\mu\text{g/L}$ as Co)	5	3.00	1.00	2.20	0.84	3.00	2.00	2.00
Cobalt, total in bottom material ( $\mu\text{g/g}$ as Co)	8	10.00	0.00	7.50	3.63	10.00	9.50	5.50
Copper, dissolved ( $\mu\text{g/L}$ as Cu)	12	56.00	2.00	12.67	16.10	19.50	5.00	2.50
Copper, suspended ( $\mu\text{g/L}$ as Cu)	5	4.00	0.00	0.80	1.79	0.00	0.00	0.00
Copper, total ( $\mu\text{g/L}$ as Cu)	8	19.00	0.00	6.63	5.97	8.50	6.50	2.00
Copper, total in bottom material ( $\mu\text{g/g}$ as Cu)	8	14.00	6.00	10.00	2.88	12.00	10.00	8.00
Iron, suspended ( $\mu\text{g/L}$ as Fe)	12	2500.00	120.00	625.00	640.94	695.00	400.00	315.00
Iron, total ( $\mu\text{g/L}$ as Fe)	12	2600.00	150.00	666.67	655.53	730.00	445.00	360.00
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	42	550.00	10.00	62.67	93.63	50.00	40.00	20.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	8	19.00	0.00	4.13	6.24	4.00	2.50	0.50
Lead, suspended ( $\mu\text{g/L}$ as Pb)	4	78.00	0.00	--	--	--	--	--
Lead, total ( $\mu\text{g/L}$ as Pb)	6	97.00	0.00	18.00	38.72	3.00	3.00	2.00
Lead, total in bottom material ( $\mu\text{g/g}$ as Pb)	5	16.00	0.00	10.00	6.36	15.00	10.00	9.00
Manganese, total in bottom material ( $\mu\text{g/g}$ as Mn)	8	940.00	200.00	458.75	228.75	525.00	445.00	295.00
Manganese, suspended ( $\mu\text{g/L}$ as Mn)	16	170.00	0.00	46.88	45.42	65.00	40.00	15.00
Manganese, total ( $\mu\text{g/L}$ as Mn)	19	420.00	20.00	147.90	110.68	140.00	120.00	80.00
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	23	250.00	20.00	91.57	64.61	120.00	60.00	40.00
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	4	11.00	1.00	--	--	--	--	--
Molybdenum, suspended ( $\mu\text{g/L}$ as Mo)	3	0.00	0.00	--	--	--	--	--
Molybdenum, total ( $\mu\text{g/L}$ as Mo)	6	7.00	1.00	4.00	2.19	6.00	3.50	3.00
Molybdenum, total in bottom material ( $\mu\text{g/g}$ as Mo)	7	7.00	0.00	2.14	3.02	6.00	1.00	0.00
Nickel, dissolved ( $\mu\text{g/L}$ as Ni)	14	8.00	0.00	3.07	2.20	5.00	3.00	2.00
Nickel, suspended ( $\mu\text{g/L}$ as Ni)	7	5.00	0.00	2.57	1.72	4.00	3.00	1.00
Nickel, total ( $\mu\text{g/L}$ as Ni)	10	16.00	2.00	7.20	4.37	10.00	6.00	4.00
Nickel, total in bottom material ( $\mu\text{g/g}$ as Ni)	7	24.00	0.00	15.57	8.32	21.00	20.00	10.00
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	7	1900.00	630.00	1375.71	414.08	1600.00	1500.00	1100.00
Strontium, suspended ( $\mu\text{g/L}$ as Sr)	2	0.00	0.00	--	--	--	--	--
Strontium, total ( $\mu\text{g/L}$ as Sr)	2	1200.00	1200.00	--	--	--	--	--
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	4	0.20	0.00	--	--	--	--	--
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	9	40.00	4.00	18.67	11.70	20.00	20.00	10.00
Zinc, suspended ( $\mu\text{g/L}$ as Zn)	6	30.00	0.00	10.00	12.65	20.00	5.00	0.00
Zinc, total ( $\mu\text{g/L}$ as Zn)	10	40.00	10.00	25.00	9.72	30.00	20.00	20.00
Zinc, total in bottom material ( $\mu\text{g/g}$ as Zn)	8	53.00	15.00	27.50	12.36	33.00	25.00	18.00

## 06352400 Timber Creek near Bentley, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1977 through September 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	9	170.00	0.00	38.89	52.31	50.00	20.00	10.00
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	13	140.00	20.00	88.92	38.58	120.00	100.00	67.00
Lithium, suspended ( $\mu\text{g/L}$ as Li)	6	80.00	0.00	15.00	32.09	10.00	0.00	0.00
Lithium, total ( $\mu\text{g/L}$ as Li)	9	130.00	20.00	95.56	35.75	120.00	100.00	90.00
Selenium, dissolved ( $\mu\text{g/L}$ as Se)	14	11.00	1.00	4.00	3.23	5.00	2.50	2.00
Selenium, suspended ( $\mu\text{g/L}$ as Se)	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Selenium, total ( $\mu\text{g/L}$ as Se)	9	9.00	0.00	2.56	2.70	3.00	2.00	1.00
Selenium, total in bottom material ( $\mu\text{g/g}$ as Se)	8	1.00	0.00	0.14	0.35	0.05	0.00	0.00
Iron, total in bottom material ( $\mu\text{g/g}$ as Fe)	1	6000.00	6000.00	--	--	--	--	--
Alpha, gross, dissolved (pCi/L as U natural)	3	33.00	28.00	--	--	--	--	--
Alpha, gross, suspended (pCi/L as U natural)	6	2.40	0.30	0.67	0.85	0.40	0.30	0.30
Beta, gross, dissolved (pCi/L as Cs-137)	13	40.00	9.50	19.35	7.55	23.00	16.00	16.00
Beta, gross, suspended (pCi/L as Cs-137)	16	5.90	0.40	1.36	1.34	1.70	1.00	0.60
Fecal coliform, 7 $\mu\text{m}$ -membrane filter (colonies/100 mL)	20	1500.00	27.00	337.20	369.39	495.00	200.00	63.50
Streptococci, fecal, membrane filter, KF agar (colonies/100 mL)	30	6100.00	34.00	705.80	1311.68	720.00	220.00	87.00
Phenols, total ( $\mu\text{g/L}$ )	3	5.00	0.00	--	--	--	--	--
Heptachlor, suspended, total ( $\mu\text{g/L}$ )	2	358.00	352.00	--	--	--	--	--
Phytoplankton, total (cells/mL)	46	29000.00	29.00	4558.22	6051.27	6000.00	2100.00	790.00
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	47	3480.00	531.00	2147.47	689.59	2750.00	1990.00	1640.00
Solids, sum of constituents, dissolved (mg/L)	44	3367.84	493.55	2067.40	676.89	2612.07	1914.10	1589.25
Solids, dissolved (tons per day)	47	420.07	0.60	35.42	74.39	20.93	9.30	5.27
Solids, dissolved (tons per acre-foot)	47	4.73	0.72	2.92	0.94	3.74	2.71	2.23
Biomass-chlorophyll ratio, periphyton (units)	15	5636.36	63.70	1244.64	1658.57	2081.22	408.45	223.12
Chlorophyll a, periphyton, chromatographic-fluorometric (milligrams per square meter)	15	13.50	0.43	3.42	3.58	4.93	2.13	0.84
Chlorophyll b, periphyton, chromatographic-fluorometric (milligrams per square meter)	15	5.82	0.00	0.89	1.53	0.83	0.37	0.11
Nitrogen, ammonia, total (mg/L as $\text{NH}_4$ )	35	0.48	0.00	0.12	0.10	0.18	0.10	0.04
Phosphorus, total (mg/L as $\text{PO}_4$ )	22	0.55	0.00	0.17	0.15	0.18	0.14	0.09
Nitrogen, total (mg/L as $\text{NO}_3$ )	35	27.44	2.48	9.71	6.73	15.05	6.29	5.00
Mercury, dissolved ( $\mu\text{g/L}$ as Hg)	8	0.30	0.00	0.04	0.11	0.00	0.00	0.00
Mercury, suspended, recoverable ( $\mu\text{g/L}$ as Hg)	6	0.20	0.00	0.08	0.08	0.10	0.10	0.00
Mercury, total, recoverable ( $\mu\text{g/L}$ as Hg)	7	0.30	0.00	0.11	0.11	0.20	0.10	0.00
Mercury, recoverable from bottom material ( $\mu\text{g/g}$ as Hg)	8	0.30	0.00	0.06	0.10	0.04	0.03	0.02
Alpha, gross, dissolved ( $\mu\text{g/L}$ as U natural)	2	48.00	41.00	--	--	--	--	--
Alpha, gross radioactivity, suspended, total ( $\mu\text{g/L}$ as U natural)	5	3.60	0.40	1.12	1.39	0.60	0.50	0.50
Beta, gross, dissolved (pCi/L as strontium/yttrium-90)	5	21.00	13.00	16.20	3.11	17.00	16.00	14.00
Beta, gross, radioactivity, suspended, total (pCi/L as strontium/yttrium-90)	9	5.70	0.50	1.33	1.65	1.00	1.00	0.50

## 06352400 Timber Creek near Bentley, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1977 through September 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sediment, suspended concentration (mg/L)	54	572.00	10.00	59.83	78.39	66.00	43.50	27.00
Sediment discharge, suspended (tons per day)	54	3305.02	0.01	64.29	449.53	0.65	0.16	0.07
Sediment, bed material, fall diameter, distilled water, percent finer than .062 mm	3	54.00	23.00	--	--	--	--	--
Sediment, bed material, fall diameter, distilled water, percent finer than .125 mm	4	76.00	23.00	--	--	--	--	--
Sediment, bed material, fall diameter, distilled water, percent finer than .250 mm	4	97.00	50.00	--	--	--	--	--
Sediment, bed material, fall diameter, distilled water, percent finer than .500 mm	4	98.00	58.00	--	--	--	--	--
Sediment, bed material, fall diameter, distilled water, percent finer than 1.00 mm	4	99.00	59.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than .062 mm	1	47.00	47.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than .125 mm	1	58.00	58.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than .250 mm	1	90.00	90.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than .500 mm	1	96.00	96.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 1.00 mm	1	96.00	96.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 2.00 mm	5	100.00	66.00	87.60	15.58	98.00	98.00	76.00
Sediment, bed material, sieve diameter, percent finer than 4.00 mm	4	100.00	78.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 8.00 mm	2	90.00	86.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 16.0 mm	2	95.00	94.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 32.0 mm	2	100.00	96.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 64.0 mm	1	100.00	100.00	--	--	--	--	--
Coal in bottom material (g/kg)	1	1.00	1.00	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	7	9.00	5.40	7.31	1.33	9.00	7.10	6.30
Hydrogen, 2/1 ratio per mil	2	12.20	10.80	--	--	--	--	--
Sampling method (codes)	46	8010.00	8010.00	8010.00	0.00	8010.00	8010.00	8010.00
Specific conductance (µS/cm at 25 degrees Celsius)	12	3950.00	1520.00	2706.25	819.61	3525.00	2450.00	2155.00
Conversion factor	46	199.71	1.29	35.75	44.37	39.08	16.14	12.88
Total count (cells/mL)	46	29000.00	29.00	4558.22	6051.27	6000.00	2100.00	790.00
Algae data								
Chlamydomonadaceae	1	87.00	87.00	--	--	--	--	--
Carteria	1	28.00	28.00	--	--	--	--	--
Chlamydomonas	20	692.00	13.00	159.05	186.59	188.00	93.50	40.00
Sphaerocystis	1	285.00	285.00	--	--	--	--	--
Elakatothrix	1	52.00	52.00	--	--	--	--	--
Chlorococcum	1	46.00	46.00	--	--	--	--	--
Schroederia	2	239.00	61.00	--	--	--	--	--
Coelastrum	1	625.00	625.00	--	--	--	--	--
Ankistrodesmus	23	938.00	4.00	248.35	287.66	431.00	116.00	26.00
Chlorella	2	144.00	55.00	--	--	--	--	--
Dictyosphaerium	3	746.00	51.00	--	--	--	--	--

## 06352400 Timber Creek near Bentley, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1977 through September 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Algae data--Continued								
Kirchneriella	6	287.00	14.00	120.17	106.65	204.00	97.00	22.00
Selenastrum	8	341.00	13.00	141.88	108.86	219.50	104.50	66.50
Tetraedron	4	346.00	6.00	--	--	--	--	--
Treubaria	3	519.00	23.00	--	--	--	--	--
Chodatella	1	68.00	68.00	--	--	--	--	--
Actinastrum	1	1383.00	1383.00	--	--	--	--	--
Crucigenia	6	156.00	20.00	76.17	53.21	103.00	78.00	22.00
Scenedesmus	23	3112.00	8.00	370.22	678.50	283.00	168.00	77.00
Tetrastrum	5	409.00	5.00	182.80	151.88	232.00	168.00	100.00
Microactinium	2	52.00	25.00	--	--	--	--	--
Closterium	3	313.00	43.00	--	--	--	--	--
Staurastrum	1	124.00	124.00	--	--	--	--	--
Euglena	7	346.00	6.00	147.57	146.50	326.00	117.00	13.00
Eutreptia	1	9.00	9.00	--	--	--	--	--
Phacus	3	466.00	14.00	--	--	--	--	--
Trachelomonas	17	864.00	5.00	178.24	223.85	280.00	100.00	28.00
Rhodomonas	1	58.00	58.00	--	--	--	--	--
Cryptomonas	3	697.00	144.00	--	--	--	--	--
Chroomonas	8	349.00	25.00	104.00	115.77	152.50	51.00	25.50
Cryptomonas	10	708.00	13.00	138.20	205.64	101.00	83.50	26.00
Gymnodinium	1	286.00	286.00	--	--	--	--	--
Glenodinium	8	511.00	9.00	124.75	180.34	191.00	29.00	19.00
Peridinium	1	162.00	162.00	--	--	--	--	--
Chrysococcus	2	317.00	125.00	--	--	--	--	--
Ochromonas	1	335.00	335.00	--	--	--	--	--
Cyclotella	30	1368.00	5.00	173.73	274.93	182.00	75.50	25.00
Melosira	8	809.00	26.00	250.63	298.99	478.00	73.00	34.00
Chaetoceros	1	47.00	47.00	--	--	--	--	--
Diatoma	4	585.00	13.00	--	--	--	--	--
Asterionella	1	50.00	50.00	--	--	--	--	--
Fragilaria	6	151.00	3.00	60.17	56.78	90.00	52.00	13.00
Synedra	12	239.00	5.00	50.83	70.70	70.00	18.50	13.00
Achnanthes	3	36.00	13.00	--	--	--	--	--
Cocconeis	11	346.00	11.00	84.27	109.39	124.00	29.00	13.00
Rhoicosphenia	1	7.00	7.00	--	--	--	--	--
Entomoneis	1	13.00	13.00	--	--	--	--	--

06352400 Timber Creek near Bentley, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1977 through September 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Algae data--Continued								
Gyrosigma	3	50.00	1.00	--	--	--	--	--
Navicula	28	173.00	4.00	49.07	48.63	56.50	28.50	13.00
Pleurosigma	3	93.00	14.00	--	--	--	--	--
Gomphonema	5	116.00	4.00	32.80	46.78	18.00	13.00	13.00
Cymbella	1	47.00	47.00	--	--	--	--	--
Nitzschia	33	864.00	9.00	135.61	201.05	167.00	58.00	25.00
Surirella	1	22.00	22.00	--	--	--	--	--
Anacystis	19	606.00	13.00	215.90	226.86	495.00	90.00	20.00
Coccolioris	1	402.00	402.00	--	--	--	--	--
Lyngbya	1	91.00	91.00	--	--	--	--	--
Oscillatoria	2	700.00	180.00	--	--	--	--	--
Spirulina	2	32.00	14.00	--	--	--	--	--
Anabaenopsis	1	116.00	116.00	--	--	--	--	--

Summary of daily streamflow data, October 1977 through September 1981

Month	Descriptive statistics					Percent of days that had values less than or equal to those shown in ft <sup>3</sup> /s				
	Maximum (ft <sup>3</sup> /s)	Minimum (ft <sup>3</sup> /s)	Mean (ft <sup>3</sup> /s)	Standard deviation (ft <sup>3</sup> /s)	Coefficient of variation	Percent of annual runoff	95	75	Median 50	25
October	59.00	0.28	4.23	8.62	203.76	2.1	21.00	3.00	0.91	0.43
November	3.20	0.70	1.56	0.66	42.25	0.7	2.80	2.00	1.50	0.91
December	2.20	0.40	1.21	0.45	37.25	0.6	1.90	1.60	1.20	0.80
January	1.60	0.50	0.95	0.30	31.07	0.5	1.50	1.20	0.80	0.70
February	2.10	0.00	0.82	0.47	57.80	0.4	1.80	1.00	0.80	0.60
March	1980.00	0.00	72.04	278.87	387.09	35.2	400.00	4.70	1.95	1.50
April	430.00	0.66	48.02	76.84	160.00	22.7	192.50	66.00	12.00	2.30
May	97.00	0.20	11.16	16.63	149.09	5.4	51.00	15.50	3.85	0.97
June	1040.00	0.14	36.04	132.67	368.09	17.0	191.00	13.00	4.45	1.05
July	1670.00	0.04	28.68	160.57	559.88	14.0	61.00	5.55	2.10	0.50
August	56.00	0.00	2.27	6.15	270.29	1.1	6.70	1.80	0.60	0.38
September	23.00	0.10	0.81	2.77	339.97	0.4	1.00	0.66	0.35	0.28
Annual	1980.00	0.00	17.37	105.71	608.54	100.0	51.00	3.00	1.20	0.66

06352500 Cedar Creek near Pretty Rock, North Dakota

LOCATION.--Lat. 46°01'55", long. 101°49'55", in S $\frac{1}{2}$  sec. 33, T. 130 N., R. 89 W., Grant County, Hydrologic Unit 10130205, on left bank on downstream side of county highway bridge, 7 mi north of Keldron, South Dakota, 10.5 mi south of abandoned townsite of Pretty Rock, and 15 mi downstream from Timber Creek.

DRAINAGE AREA.--1,340 mi<sup>2</sup>, approximately.

REMARKS.--Other daily values at this site include sediment, suspended concentration (mg/L), May 1946 through December 1948, and sediment discharge, suspended (ton/day), October 1946 through September 1949.

Summary of water-quality data collected at periodic intervals, April 1950 through August 1976

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	88	28.50	0.00	8.60	9.02	17.00	6.50	0.50
Surface area (square miles)	10	1340.00	1340.00	1340.00	0.00	1340.00	1340.00	1340.00
Discharge (cubic feet per second)	51	5060.00	2.20	341.00	987.58	202.00	34.00	13.00
Discharge, instantaneous (cubic feet per second)	47	7560.00	0.02	266.68	1154.88	40.00	22.00	6.20
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	78	6700.00	232.00	2372.17	1092.75	2950.00	2360.00	1660.00
pH, water, whole, field (standard units)	40	8.40	7.00	7.86	0.35	8.10	7.90	7.70
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	30	24.00	1.90	8.04	5.34	10.00	7.15	4.70
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	30	544.00	94.00	314.37	102.22	366.00	319.50	266.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	40	663.00	102.00	368.02	120.95	432.00	386.50	310.50
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	30	9.00	0.00	1.00	2.49	0.00	0.00	0.00
Nitrogen, nitrate, dissolved (mg/L as N)	30	2.50	0.09	0.43	0.48	0.45	0.23	0.23
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	31	0.85	0.00	0.09	0.17	0.12	0.03	0.00
Phosphorus, orthophosphate, dissolved (mg/L as P)	28	0.12	0.00	0.02	0.03	0.04	0.01	0.00
Hardness, total (mg/L as CaCO <sub>3</sub> )	40	1190.90	86.66	621.14	275.44	818.25	608.86	403.71
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	40	730.00	3.00	317.85	211.69	475.00	310.00	114.50
Calcium, dissolved (mg/L as Ca)	40	180.00	22.00	98.78	37.54	120.00	98.00	74.00
Magnesium, dissolved (mg/L as Mg)	40	180.00	7.70	90.92	47.60	125.00	94.00	51.00
Sodium, dissolved (mg/L as Na)	31	540.00	33.00	314.48	133.13	420.00	320.00	220.00
Sodium adsorption ratio	31	8.22	1.23	5.06	1.62	6.34	5.22	4.02
Sodium (percent)	40	63.00	26.00	48.88	7.44	53.32	50.19	44.40
Sodium plus potassium, dissolved (mg/L as Na)	9	366.00	14.00	204.89	96.39	258.00	210.00	174.00
Potassium, dissolved (mg/L as K)	31	14.00	7.70	10.27	1.40	11.00	10.00	9.20
Chloride, dissolved (mg/L as Cl)	40	18.00	0.00	9.92	4.66	13.50	10.50	6.10
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	40	1800.00	26.00	919.70	460.52	1300.00	920.00	540.00
Fluoride, dissolved (mg/L as F)	40	1.10	0.10	0.36	0.20	0.45	0.40	0.20
Silica, dissolved (mg/L as SiO <sub>2</sub> )	40	19.00	1.30	6.07	4.10	7.25	4.90	3.25
Boron, dissolved ( $\mu$ g/L as B)	34	1700.00	0.00	604.41	413.71	900.00	530.00	300.00
Iron, total ( $\mu$ g/L as Fe)	10	340.00	20.00	72.00	96.70	80.00	40.00	20.00
Iron, dissolved ( $\mu$ g/L as Fe)	26	1200.00	0.00	156.54	256.78	140.00	80.00	0.00



06352500 Cedar Creek near Pretty Rock, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, April 1950 through August 1976

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Manganese, dissolved (µg/L as Mn)	28	240.00	10.00	69.29	57.54	90.00	65.00	25.00
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	40	2970.00	146.00	1640.53	728.90	2225.00	1640.00	1110.00
Solids, sum of constituents, dissolved (mg/L)	34	2879.65	271.64	1742.62	673.79	2310.15	1763.68	1263.50
Solids, dissolved (tons per day)	34	3016.98	0.77	374.28	693.14	313.55	104.11	42.35
Solids, dissolved (tons per acre-foot)	37	4.04	0.20	2.27	1.02	3.06	2.39	1.50
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	10	5.70	0.40	2.18	1.46	2.60	2.25	1.20
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	30	11.00	0.10	1.87	2.14	2.00	1.00	1.00
Elevation of land surface datum, LSD (feet NGVD)	10	2155.20	2155.20	2155.20	0.00	2155.20	2155.20	2155.20

Summary of daily streamflow data, April 1943 through November 1976

Month	Descriptive statistics					Percent of days that had values less than or equal to those shown in ft <sup>3</sup> /s				
	Maximum (ft <sup>3</sup> /s)	Minimum (ft <sup>3</sup> /s)	Mean (ft <sup>3</sup> /s)	Standard deviation (ft <sup>3</sup> /s)	Coefficient of variation	Percent of annual runoff	95	75	Median 50	5
October	48.00	0.00	3.80	6.00	157.89	0.4	18.00	4.70	1.40	0.00
November	36.00	0.00	5.12	5.71	111.57	0.6	16.00	6.90	3.70	0.00
December	24.00	0.00	4.40	4.30	97.86	0.5	13.00	5.90	3.00	0.00
January	710.00	0.00	10.20	54.28	532.10	1.2	12.00	3.80	1.60	0.00
February	1000.00	0.00	18.20	60.10	330.21	1.9	106.00	8.70	1.50	0.00
March	6000.00	0.00	209.41	578.94	276.47	23.9	1400.00	91.00	18.00	0.00
April	34000.00	0.00	330.48	1689.45	511.21	37.7	1100.00	99.50	38.00	0.85
May	4280.00	0.00	116.00	377.21	325.18	13.7	580.00	45.00	18.00	0.30
June	2720.00	0.00	111.99	252.93	225.86	12.8	512.00	92.50	35.00	0.50
July	1830.00	0.00	44.83	120.13	267.97	5.3	164.00	39.00	14.00	0.00
August	531.00	0.00	13.56	35.90	264.71	1.6	59.00	12.00	3.40	0.00
September	228.00	0.00	4.19	12.73	303.82	0.5	15.50	3.80	0.80	0.00
Annual	34000.00	0.00	72.87	542.29	744.16	100.0	228.00	22.00	5.10	0.00

06353000 Cedar Creek near Raleigh, North Dakota

LOCATION.--Lat. 46°05'30", long. 101°20'00", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec. 8, T. 130 N., R. 85 W., Grant County, Hydrologic Unit 10130205, on left bank at upstream side of bridge on North Dakota Highway 31, 6 mi upstream from mouth, and 19 mi south of Raleigh.

DRAINAGE AREA.--1,750 mi<sup>2</sup>, approximately.

Summary of water-quality data collected at periodic intervals, October 1971 through August 1994

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	253	31.10	0.00	8.86	9.13	17.50	6.00	0.50
Temperature, air (degrees Celsius)	110	36.00	-12.00	11.67	11.43	21.00	11.00	3.50
Barometric pressure (mm of Hg)	2	753.00	722.00	--	--	--	--	--
Agency collecting sample (code number)	113	38002.00	1028.00	1682.41	4896.94	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	132	38002.00	1028.00	11111.82	16529.54	38002.00	1028.00	1028.00
Discharge (cubic feet per second)	36	4100.00	0.80	414.44	915.06	360.00	85.00	17.00
Discharge, instantaneous (cubic feet per second)	219	10400.00	0.01	336.35	1198.53	103.00	13.50	3.90
Specific conductance (µS/cm at 25 degrees Celsius)	15	2470.00	413.00	1443.87	652.75	2080.00	1430.00	904.00
Specific conductance (µS/cm at 25 degrees Celsius)	249	4400.00	200.00	1728.90	926.85	2400.00	1600.00	1000.00
Sample treatment (codes)	2	1.00	1.00	--	--	--	--	--
pH, water, whole, field (standard units)	52	8.70	6.80	8.13	0.42	8.50	8.20	7.85
pH, water, whole, laboratory (standard units)	16	8.44	6.72	7.92	0.52	8.30	8.10	7.65
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	28	35.00	1.00	7.38	9.02	7.65	3.90	1.95
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	28	612.00	60.00	292.43	128.52	341.00	307.00	215.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	28	746.00	73.00	353.71	156.69	413.00	374.50	262.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	28	16.00	0.00	1.39	3.77	0.00	0.00	0.00
Nitrogen, nitrate, dissolved (mg/L as N)	14	2.10	0.23	0.45	0.50	0.45	0.23	0.23
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	13	0.46	0.00	0.11	0.14	0.09	0.06	0.05
Phosphorus, orthophosphate, dissolved (mg/L as P)	6	0.15	0.00	0.04	0.05	0.05	0.03	0.02
Hardness, total (mg/L as CaCO <sub>3</sub> )	50	976.21	31.92	423.06	234.00	566.88	427.42	210.36
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	28	440.00	0.00	228.11	127.35	350.00	225.00	135.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	4	220.00	42.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	50	170.00	8.00	69.22	37.21	85.00	69.50	35.00
Magnesium, dissolved (mg/L as Mg)	50	140.00	2.90	60.66	35.28	86.00	60.00	30.00
Sodium, dissolved (mg/L as Na)	50	550.00	23.00	242.54	132.56	340.00	245.00	140.00
Sodium adsorption ratio	50	8.41	1.12	5.05	1.87	6.78	5.18	3.90
Sodium (percent)	50	81.92	31.29	53.87	9.50	59.62	53.99	46.87
Potassium, dissolved (mg/L as K)	50	17.00	4.70	10.71	2.80	13.00	10.00	8.90
Chloride, dissolved (mg/L as Cl)	50	18.00	1.90	9.89	4.38	14.00	9.75	6.30
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	50	1400.00	63.00	664.84	379.05	950.00	695.00	290.00
Fluoride, dissolved (mg/L as F)	49	0.50	0.10	0.29	0.13	0.40	0.30	0.20
Silica, dissolved (mg/L as SiO <sub>2</sub> )	50	20.00	0.90	6.20	3.77	7.60	5.40	3.50

## 06353000 Cedar Creek near Raleigh, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1971 through August 1994

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Arsenic, dissolved ( $\mu\text{g/L}$ as As)	18	38.00	0.00	3.78	8.61	2.00	2.00	1.00
Barium, dissolved ( $\mu\text{g/L}$ as Ba)	1	70.00	70.00	--	--	--	--	--
Boron, dissolved ( $\mu\text{g/L}$ as B)	49	1900.00	60.00	428.78	307.31	600.00	370.00	200.00
Copper, dissolved ( $\mu\text{g/L}$ as Cu)	1	2.00	2.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	47	6200.00	0.00	291.28	920.05	180.00	80.00	30.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	9	4.00	0.00	1.00	1.23	1.00	1.00	0.00
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	43	290.00	10.00	61.16	60.05	80.00	40.00	20.00
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	15	9.00	1.00	3.20	2.70	4.00	2.00	1.00
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	20	1400.00	250.00	740.00	367.65	1050.00	620.00	465.00
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	1	6.00	6.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	20	110.00	10.00	50.10	28.31	62.00	50.00	33.00
Selenium, dissolved ( $\mu\text{g/L}$ as Se)	11	6.00	0.00	1.46	1.81	2.00	1.00	0.00
Iron 59, dissolved (pCi/L)	1	8.00	8.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	50	2810.00	174.00	1253.06	659.52	1730.00	1260.00	703.00
Solids, sum of constituents, dissolved (mg/L)	50	2662.32	158.33	1224.20	641.06	1710.04	1254.69	673.34
Solids, dissolved (tons per day)	50	4885.92	1.45	456.50	891.49	416.42	47.89	20.49
Solids, dissolved (tons per acre-foot)	50	3.82	0.24	1.70	0.90	2.35	1.71	0.96
Nitrogen, nitrate, dissolved (mg/L as $\text{NO}_3$ )	16	9.30	1.00	1.85	2.07	1.85	1.00	1.00
Mercury, dissolved ( $\mu\text{g/L}$ as Hg)	14	0.70	0.10	0.24	0.17	0.30	0.20	0.10
Sample purpose (codes)	2	10.00	10.00	--	--	--	--	--
Sampling method (codes)	8	70.00	10.00	62.50	21.21	70.00	70.00	70.00
Sampler type (codes)	1	3050.00	3050.00	--	--	--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	4	1980.00	364.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	22	360.00	80.00	239.46	83.48	300.00	264.00	170.00
Bicarbonate, titration to pH 4.5, laboratory (mg/L as $\text{HCO}_3$ )	21	437.00	101.00	283.05	96.59	360.00	312.00	205.00
Carbonate, titration to pH 8.3, laboratory (mg/L as $\text{CO}_3$ )	21	10.00	0.00	1.10	2.64	0.00	0.00	0.00
Quality assurance data type associated with sample	1	30.00	30.00	--	--	--	--	--

06353000 Cedar Creek near Raleigh, North Dakota--Continued  
Summary of daily streamflow data, April 1939 through September 1993

Month	Descriptive statistics					Percent of annual runoff	Percent of days that had values less than or equal to those shown in ft³/s				
	Maximum (ft³/s)	Minimum (ft³/s)	Mean (ft³/s)	Standard deviation (ft³/s)	Coefficient of variation		95	75	Median 50	25	5
October	319.00	0.00	9.20	21.23	230.84	0.9	38.00	9.50	2.40	0.00	0.00
November	156.00	0.00	7.82	12.11	154.90	0.7	28.00	11.00	5.00	0.06	0.00
December	50.00	0.00	6.10	6.98	114.32	0.6	17.00	8.50	4.70	0.05	0.00
January	650.00	0.00	12.02	57.13	475.34	1.1	29.00	5.40	2.00	0.02	0.00
February	4600.00	0.00	36.97	254.55	688.52	3.1	80.00	14.00	2.95	0.05	0.00
March	10900.00	0.00	340.90	973.25	285.50	31.6	1890.00	210.00	42.00	8.60	0.07
April	7450.00	0.13	242.69	591.63	243.78	23.8	1120.00	165.00	60.00	20.50	1.00
May	3980.00	0.20	172.91	391.06	226.16	17.6	780.00	156.00	35.00	8.80	1.00
June	2710.00	0.03	105.53	204.55	193.83	10.3	430.00	108.95	41.59	10.00	1.20
July	2400.00	0.00	77.60	219.28	282.58	7.6	346.00	50.00	19.00	3.20	0.06
August	524.51	0.00	20.97	45.59	217.36	2.1	96.00	22.00	5.66	0.05	0.00
September	494.00	0.00	6.71	25.89	385.88	0.6	20.00	6.80	1.70	0.00	0.00
Annual	10900.00	0.00	88.15	381.43	432.73	100.0	380.00	36.00	8.12	0.79	0.00

06354000 Cannonball River at Breien, North Dakota

LOCATION.--Lat. 46°22'33", long. 100°56'03", in sec. 36, T. 134 N., R. 82 W., Morton County, Hydrologic Unit 10130206, on left bank at downstream side of bridge on State Highway 6, 1,100 ft downstream from Dogtooth Creek, and 0.6 mi southeast of Breien.

DRAINAGE AREA.--4,100 mi<sup>2</sup>, approximately.

REMARKS.--Other daily values at this site include sediment, suspended concentration (mg/L), October 1971 through September 1976, and sediment discharge, suspended (ton/day), October 1971 through September 1976.

Summary of water-quality data collected at periodic intervals, October 1949 through August 1994

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Cross-section location feet from left bank looking downstream	129	110.00	0.00	38.91	27.41	60.00	35.00	15.00
Water temperature (degrees Celsius)	491	29.50	0.00	11.63	9.63	21.00	11.00	1.00
Temperature, air (degrees Celsius)	186	35.00	-20.00	11.43	11.55	20.50	11.00	3.00
Length of exposure (days)	8	34.00	27.00	29.38	2.20	30.00	29.00	28.00
Barometric pressure (mm of Hg)	77	783.00	715.00	761.95	12.15	769.00	763.00	760.00
Agency collecting sample (code number)	363	80020.00	1028.00	2333.65	10085.22	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	403	80020.00	1028.00	29017.91	37520.02	80010.00	1028.00	1028.00
Cloud cover (percent)	10	100.00	0.00	31.00	41.55	60.00	2.50	0.00
Windspeed (miles per hour)	7	20.00	3.00	8.29	5.82	10.00	5.00	5.00
Surface area (square miles)	4	4100.00	4100.00	--	--	--	--	--
Discharge (cubic feet per second)	76	8120.00	3.30	779.83	1272.99	948.50	246.00	40.00
Discharge, instantaneous (cubic feet per second)	291	22860.00	0.00	734.47	2477.92	283.00	56.00	18.00
Number of sampling points (count)	13	22.00	6.00	13.92	4.77	15.00	14.00	11.00
Gage height (feet)	1	3.13	3.13	--	--	--	--	--
Turbidity (JCU)	42	1400.00	3.00	113.24	261.29	65.00	15.00	6.00
Turbidity (NTU)	96	1200.00	1.00	117.08	233.06	79.00	18.00	7.50
Specific conductance (µS/cm at 25 degrees Celsius)	2	1180.00	763.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	442	4860.00	190.00	1683.47	740.19	2350.00	1620.00	1170.00
Sample treatment (codes)	4	1.00	1.00	--	--	--	--	--
Oxygen, dissolved (mg/L)	267	17.00	3.40	10.10	1.71	11.50	10.10	8.80
Oxygen, dissolved (percent saturation)	144	116.43	23.58	89.20	15.09	99.00	91.46	82.50
Chemical oxygen demand, high level (mg/L)	30	270.00	5.00	62.50	61.13	76.00	38.00	27.00
pH, water, whole, field (standard units)	275	9.60	7.20	8.32	0.31	8.50	8.40	8.10
pH, water, whole, laboratory (standard units)	61	8.80	6.85	8.13	0.35	8.30	8.20	8.00
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	76	29.00	1.00	6.23	5.98	9.90	3.60	2.00
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	125	866.00	87.00	350.97	169.21	450.00	310.00	231.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	76	951.00	32.20	422.38	221.17	620.50	350.00	279.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	69	55.00	0.00	3.70	11.03	0.00	0.00	0.00
Residue, volatile nonfilterable (mg/L)	1	11.00	11.00	--	--	--	--	--

## 06354000 Cannonball River at Breien, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1949 through August 1994

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown	
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	25
Biomass, periphyton ash weight (grams per square meter)	14	63.20	0.00	15.47	22.24	31.60	1.97
Biomass, periphyton dry weight total (grams per square meter)	13	65.70	0.16	17.68	23.99	33.90	2.21
Nitrogen, total (mg/L as N)	81	9.99	0.14	1.57	1.45	1.70	1.10
Nitrogen, dissolved (mg/L as N)	24	1.93	0.38	0.88	0.38	1.07	0.78
Nitrogen, organic, total (mg/L as N)	68	9.31	0.00	1.14	1.21	1.15	0.89
Nitrogen, organic, dissolved (mg/L as N)	25	1.19	0.27	0.73	0.25	0.93	0.71
Nitrogen, ammonia, dissolved (mg/L as N)	69	0.35	0.00	0.08	0.07	0.09	0.05
Nitrogen, ammonia, total (mg/L as N)	70	0.61	0.00	0.08	0.09	0.11	0.05
Nitrogen, nitrite, dissolved (mg/L as N)	13	0.04	0.00	0.02	0.01	0.02	0.02
Nitrogen, nitrite, total (mg/L as N)	30	0.09	0.00	0.02	0.02	0.02	0.01
Nitrogen, nitrate, dissolved (mg/L as N)	33	1.56	0.00	0.42	0.39	0.56	0.23
Nitrogen, nitrate, total (mg/L as N)	31	0.98	0.00	0.19	0.25	0.31	0.04
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	48	1.50	0.30	0.70	0.26	0.87	0.65
Nitrogen, ammonia plus organic, suspended, total (mg/L as N)	43	8.50	0.00	0.71	1.44	0.63	0.27
Nitrogen, ammonia plus organic, total (mg/L as N)	122	9.60	0.14	1.41	1.32	1.40	1.00
Nitrogen, nitrite plus nitrate, total (mg/L as N)	76	2.50	0.00	0.25	0.37	0.38	0.10
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	47	1.60	0.00	0.27	0.33	0.48	0.12
Phosphate, total (mg/L as PO <sub>4</sub> )	12	2.50	0.03	0.41	0.77	0.21	0.08
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	32	0.31	0.00	0.06	0.07	0.09	0.05
Phosphorus, total (mg/L as P)	126	1.10	0.01	0.14	0.22	0.14	0.05
Phosphorus, dissolved (mg/L as P)	77	0.17	0.00	0.03	0.03	0.03	0.02
Phosphorus, orthophosphate, dissolved (mg/L as P)	31	0.10	0.00	0.02	0.02	0.03	0.00
Carbon, organic, total (mg/L as C)	33	35.00	5.00	15.01	6.76	17.00	11.00
Carbon, organic, dissolved (mg/L as C)	30	28.00	7.40	10.63	3.89	11.00	9.65
Carbon, organic, suspended, total (mg/L as C)	27	32.00	0.20	3.29	6.47	3.30	1.00
Hardness, total (mg/L as CaCO <sub>3</sub> )	160	1017.39	60.67	418.17	191.38	538.23	399.25
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	103	380.00	0.00	117.04	89.88	190.00	110.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	22	400.00	0.00	102.14	102.60	170.00	59.50
Calcium, dissolved (mg/L as Ca)	160	160.00	12.00	74.06	32.65	92.50	69.00
Magnesium, dissolved (mg/L as Mg)	160	150.00	2.60	56.56	27.89	75.00	54.00
Sodium, dissolved (mg/L as Na)	157	630.00	39.00	264.38	125.76	350.00	260.00
Sodium adsorption ratio	157	12.26	1.45	5.61	2.12	6.68	5.46
Sodium (percent)	160	84.00	35.44	56.45	9.21	61.53	55.99
Sodium plus potassium, dissolved (mg/L as Na)	20	640.00	68.00	282.05	149.40	355.00	265.00
Potassium, dissolved (mg/L as K)	157	18.00	2.30	9.99	2.39	11.00	9.80
Chloride, dissolved (mg/L as Cl)	160	62.00	0.80	13.60	9.59	17.50	11.00
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	160	1500.00	88.00	622.58	284.88	830.00	590.00

## 06354000 Cannonball River at Breien, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1949 through August 1994

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Fluoride, dissolved (mg/L as F)	159	1.40	0.10	0.44	0.23	0.50	0.40	0.30
Fluoride, total (mg/L as F)	27	1.80	0.20	0.71	0.45	1.00	0.50	0.30
Silica, dissolved (mg/L as SiO <sub>2</sub> )	160	24.00	0.00	7.12	3.26	8.80	6.70	4.90
Arsenic, dissolved (µg/L as As)	60	17.00	0.00	1.82	2.16	2.00	1.00	1.00
Arsenic, suspended, total (µg/L as As)	20	18.00	0.00	3.70	5.27	5.00	1.00	0.00
Arsenic, total (µg/L as As)	45	20.00	1.00	4.09	4.67	4.00	2.00	1.00
Barium, dissolved (µg/L as Ba)	47	200.00	11.00	72.43	36.19	89.00	69.00	50.00
Barium, suspended, recoverable (µg/L as Ba)	18	300.00	0.00	105.56	109.50	200.00	80.00	0.00
Barium, total (µg/L as Ba)	25	800.00	100.00	256.00	163.50	300.00	200.00	100.00
Beryllium, dissolved (µg/L as Be)	4	10.00	1.10	--	--	--	--	--
Beryllium, total (µg/L as Be)	11	10.00	0.00	1.82	4.05	0.00	0.00	0.00
Boron, dissolved (µg/L as B)	28	860.00	0.00	356.43	249.42	565.00	320.00	115.00
Boron, total (µg/L as B)	27	950.00	200.00	466.30	169.64	570.00	460.00	320.00
Cadmium, dissolved (µg/L as Cd)	5	1.00	0.00	0.60	0.55	1.00	1.00	0.00
Cadmium, suspended (µg/L as Cd)	17	20.00	0.00	3.47	5.91	9.00	0.00	0.00
Cadmium, total (µg/L as Cd)	17	20.00	0.00	1.71	4.77	1.00	0.00	0.00
Chromium, dissolved (µg/L as Cr)	16	10.00	0.00	1.81	3.27	1.50	1.00	0.00
Chromium, suspended (µg/L as Cr)	27	50.00	0.00	10.00	14.68	20.00	0.00	0.00
Chromium, total (µg/L as Cr)	26	75.00	0.00	20.19	19.72	40.00	20.00	0.00
Cobalt, dissolved (µg/L as Co)	9	33.00	0.00	5.22	10.56	4.00	1.00	1.00
Cobalt, suspended (µg/L as Co)	16	50.00	0.00	12.19	19.22	14.00	1.50	0.00
Cobalt, total (µg/L as Co)	26	40.00	0.00	7.77	9.56	11.00	3.00	2.00
Copper, dissolved (µg/L as Cu)	63	28.00	0.00	3.79	4.58	4.00	3.00	2.00
Copper, suspended (µg/L as Cu)	28	76.00	1.00	17.07	19.12	24.50	7.00	3.00
Copper, total (µg/L as Cu)	41	100.00	1.00	22.17	24.18	30.00	11.00	6.00
Iron, total (µg/L as Fe)	16	42000.00	110.00	9402.50	14268.33	22500.00	615.00	380.00
Iron, dissolved (µg/L as Fe)	54	78000.00	20.00	7559.81	15050.05	4700.00	605.00	310.00
Iron, suspended (µg/L as Fe)	89	2700.00	0.00	105.78	350.18	60.00	30.00	9.00
Lead, dissolved (µg/L as Pb)	37	10.00	0.00	2.92	2.61	4.00	3.00	1.00
Lead, suspended (µg/L as Pb)	18	96.00	0.00	20.67	34.17	20.00	3.50	1.00
Lead, total (µg/L as Pb)	24	86.00	0.00	11.71	18.07	12.00	6.00	3.00
Manganese, suspended (µg/L as Mn)	31	960.00	0.00	203.87	281.16	180.00	90.00	20.00
Manganese, total (µg/L as Mn)	50	2200.00	20.00	273.20	392.55	210.00	115.00	80.00
Manganese, dissolved (µg/L as Mn)	90	210.00	0.00	29.19	34.68	30.00	20.00	10.00
Molybdenum, dissolved (µg/L as Mo)	15	10.00	1.00	4.40	2.38	5.00	4.00	3.00
Molybdenum, total (µg/L as Mo)	23	9.00	0.00	4.22	2.28	6.00	4.00	3.00
Nickel, dissolved (µg/L as Ni)	54	20.00	0.00	4.94	3.49	6.00	4.00	3.00

06354000 Cannonball River at Breien, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1949 through August 1994

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Nickel, suspended (µg/L as Ni)	13	66.00	0.00	11.77	19.73	7.00	3.00	2.00
Nickel, total (µg/L as Ni)	31	140.00	3.00	23.58	30.20	29.00	10.00	5.00
Silver, dissolved (µg/L as Ag)	13	4.00	0.00	0.69	1.18	1.00	0.00	0.00
Silver, suspended (µg/L as Ag)	17	1.00	0.00	0.29	0.47	1.00	0.00	0.00
Silver, total (µg/L as Ag)	16	2.00	0.00	0.31	0.60	0.50	0.00	0.00
Strontium, dissolved (µg/L as Sr)	44	1800.00	190.00	822.96	397.02	1100.00	780.00	520.00
Vanadium, dissolved (µg/L as V)	9	10.00	1.00	3.31	2.67	3.30	2.90	1.90
Zinc, dissolved (µg/L as Zn)	45	120.00	4.00	22.20	27.94	20.00	10.00	7.00
Zinc, suspended (µg/L as Zn)	32	1100.00	0.00	74.25	194.16	65.00	20.00	7.00
Zinc, total (µg/L as Zn)	43	1200.00	0.00	95.12	186.36	100.00	40.00	20.00
Aluminum, total (µg/L as Al)	26	37000.00	0.00	3900.77	9096.92	1200.00	410.00	220.00
Aluminum, dissolved (µg/L as Al)	26	2000.00	10.00	125.00	388.74	60.00	25.00	10.00
Lithium, dissolved (µg/L as Li)	45	120.00	10.00	64.13	26.70	76.00	67.00	45.00
Lithium, suspended (µg/L as Li)	1	0.00	0.00	--	--	--	--	--
Lithium, total (µg/L as Li)	28	100.00	20.00	63.57	18.90	80.00	65.00	50.00
Selenium, dissolved (µg/L as Se)	37	5.00	0.00	1.30	1.00	2.00	1.00	1.00
Selenium, suspended (µg/L as Se)	30	2.00	0.00	0.37	0.67	1.00	0.00	0.00
Selenium, total (µg/L as Se)	37	3.00	0.00	1.08	0.83	1.00	1.00	1.00
Coliform, fecal, membrane filter (colonies/100 mL)	6	750.00	12.00	266.50	259.84	320.00	212.00	93.00
Fecal coliform, 7 µm-membrane filter (colonies/100 mL)	35	16000.00	5.00	2237.97	4414.85	1950.00	370.00	55.00
Streptococci, fecal, membrane filter, KF agar (colonies/100 mL)	85	42000.00	5.50	2159.83	6658.50	650.00	200.00	78.00
Streptococci, fecal, membrane filter, M-Enterococcus agar (colonies/100 mL)	17	8600.00	27.00	679.71	2057.30	210.00	105.00	60.00
Bacteria, nitrifying (most probable number)	1	310.00	310.00	--	--	--	--	--
Chlorophyll a, periphyton, spectrophotometric, uncorrected (milligrams per square meter)	4	7.87	0.00	--	--	--	--	--
Chlorophyll b, periphyton, spectrophotometric, uncorrected (milligrams per square meter)	4	0.11	0.00	--	--	--	--	--
Phytoplankton, total (cells/mL)	55	430000.00	250.00	33790.18	75923.62	27000.00	10000.00	1700.00
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	158	2960.00	254.00	1274.75	545.90	1680.00	1190.00	888.00
Solids, sum of constituents, dissolved (mg/L)	157	2956.48	234.97	1259.43	543.00	1622.85	1183.66	890.71
Solids, dissolved (tons per day)	157	7318.35	0.56	615.27	1207.53	554.97	147.06	54.38
Solids, dissolved (tons per acre-foot)	160	4.03	0.34	1.74	0.75	2.30	1.62	1.22
Sediment, suspended, sieve diameter, percent finer than .062 mm	96	100.00	11.89	88.03	16.28	99.00	95.00	85.19
Sediment, suspended, fall diameter, distilled water, percent finer than .002 mm	6	63.00	23.00	49.79	15.16	62.00	54.36	42.00
Sediment, suspended, fall diameter, distilled water, percent finer than .004 mm	24	86.00	24.00	55.82	17.53	72.50	55.00	45.00
Sediment, suspended, fall diameter, distilled water, percent finer than .008 mm	1	61.03	61.03	--	--	--	--	--
Sediment, suspended, fall diameter, distilled water, percent finer than .016 mm	15	99.00	41.00	79.26	16.64	93.00	81.00	68.00
Sediment, suspended, fall diameter, distilled water, percent finer than .031 mm	1	79.56	79.56	--	--	--	--	--
Sediment, suspended, fall diameter, distilled water, percent finer than .062 mm	37	100.00	40.00	82.00	14.97	94.60	85.00	73.00



## 06354000 Cannonball River at Breien, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1949 through August 1994

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sediment, suspended, fall diameter, distilled water, percent finer than .125 mm	21	98.00	70.00	86.60	8.03	92.00	87.00	83.00
Sediment, suspended, fall diameter, distilled water, percent finer than .250 mm	21	100.00	88.00	96.69	3.44	99.00	98.00	95.00
Sediment, suspended, fall diameter, distilled water, percent finer than .500 mm	18	100.00	98.40	99.91	0.38	100.00	100.00	100.00
Sediment, suspended, fall diameter, distilled water, percent finer than 1.00 mm	1	100.00	100.00	--	--	--	--	--
Phosphorus, orthophosphate, total (mg/L as P)	8	0.09	0.01	0.03	0.03	0.04	0.02	0.01
Biomass-chlorophyll ratio, periphyton (units)	9	4339.63	0.00	1736.84	1794.42	3415.09	957.03	126.98
Chlorophyll a, periphyton, chromatographic-fluorometric (milligrams per square meter)	10	5.12	0.00	1.56	2.12	3.62	0.53	0.07
Chlorophyll b, periphyton, chromatographic-fluorometric (milligrams per square meter)	10	0.28	0.00	0.04	0.09	0.03	0.00	0.00
Nitrogen, ammonia, total (mg/L as NH <sub>4</sub> )	71	0.79	0.00	0.10	0.12	0.14	0.06	0.03
Nitrogen, ammonia, dissolved (mg/L as NH <sub>4</sub> )	69	0.45	0.00	0.10	0.09	0.12	0.06	0.04
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	4	4.80	0.30	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	33	6.91	0.00	1.87	1.74	2.50	1.00	1.00
Nitrogen, nitrite, dissolved (mg/L as NO <sub>2</sub> )	13	0.13	0.00	0.06	0.04	0.07	0.07	0.03
Phosphorus, total (mg/L as PO <sub>4</sub> )	45	2.50	0.03	0.44	0.59	0.43	0.15	0.12
Nitrogen, total (mg/L as NO <sub>3</sub> )	81	44.22	0.62	6.95	6.44	7.53	4.90	3.98
Mercury, dissolved (µg/L as Hg)	31	0.40	0.00	0.14	0.11	0.20	0.10	0.10
Mercury, suspended, recoverable (µg/L as Hg)	28	1.00	0.00	0.13	0.22	0.20	0.05	0.00
Mercury, total, recoverable (µg/L as Hg)	25	5.00	0.00	0.41	0.98	0.30	0.20	0.10
Sample purpose (codes)	4	20.00	10.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	4	1676.50	1676.50	--	--	--	--	--
Sediment, suspended concentration (mg/L)	141	9100.00	6.00	591.40	1117.81	672.00	90.00	43.00
Sediment discharge, suspended (tons per day)	135	84626.64	0.01	3468.61	11183.37	1065.31	14.58	1.99
Sediment, bed material, fall diameter, distilled water, percent finer than .062 mm	15	6.00	0.00	3.33	2.02	5.00	4.00	1.00
Sediment, bed material, fall diameter, distilled water, percent finer than .125 mm	16	42.00	2.00	9.81	9.12	10.50	8.50	5.00
Sediment, bed material, fall diameter, distilled water, percent finer than .250 mm	16	88.00	15.00	36.31	18.47	41.50	32.00	26.50
Sediment, bed material, fall diameter, distilled water, percent finer than .500 mm	16	98.00	44.00	63.50	15.62	75.50	59.50	51.50
Sediment, bed material, fall diameter, distilled water, percent finer than 1.00 mm	16	99.00	68.00	81.38	9.14	90.00	78.00	74.50
Sediment, bed material, fall diameter, distilled water, percent finer than 2.00 mm	2	94.00	93.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than .062 mm	2	88.00	11.00	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 2.00 mm	14	100.00	75.00	84.79	7.27	88.00	85.00	80.00
Sediment, bed material, sieve diameter, percent finer than 4.00 mm	15	98.00	83.00	91.33	4.30	94.00	92.00	89.00
Sediment, bed material, sieve diameter, percent finer than 8.00 mm	15	100.00	88.00	95.80	2.93	98.00	96.00	94.00
Sediment, bed material, sieve diameter, percent finer than 16.0 mm	14	100.00	93.00	98.50	1.87	100.00	98.00	98.00
Sediment, bed material, sieve diameter, percent finer than 32.0 mm	8	100.00	100.00	100.00	0.00	100.00	100.00	100.00
Potassium 40, dissolved (pCi/L as K40)	6	8.20	4.60	6.58	1.50	8.20	6.65	5.20
Sampling method (codes)	72	8010.00	10.00	6234.72	3344.57	8010.00	8010.00	8010.00
Sampler type (codes)	3	3050.00	3001.00	--	--	--	--	--

## 06354000 Cannonball River at Breien, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1949 through August 1994

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	60	3220.00	385.00	1706.03	636.64	2085.00	1710.00	1315.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	61	607.00	107.00	319.61	131.34	399.00	300.00	210.00
Conversion factor	56	2134.40	1.33	172.43	307.68	227.40	83.81	32.79
Total count (cells/mL)	56	430000.00	250.00	39879.64	88115.30	270000.00	9800.00	2050.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	1	470.00	470.00	--	--	--	--	--
Bicarbonate, titration to pH 4.5, laboratory (mg/L as $\text{HCO}_3$ )	1	237.00	237.00	--	--	--	--	--
Carbonate, titration to pH 8.3, laboratory (mg/L as $\text{CO}_3$ )	1	0.00	0.00	--	--	--	--	--
Algae data								
Carteria	1	478.00	478.00	--	--	--	--	--
Chlamydomonas	17	1497.00	5.00	328.65	390.81	480.00	180.00	77.00
Gloeocystis	1	5987.00	5987.00	--	--	--	--	--
Chlorohormidium	1	558.00	558.00	--	--	--	--	--
Ulothrix	1	55.00	55.00	--	--	--	--	--
Chlorococcum	1	69.00	69.00	--	--	--	--	--
Schroederia	1	144.00	144.00	--	--	--	--	--
Pediastrum	1	1730.00	1730.00	--	--	--	--	--
Coelastrum	1	392.00	392.00	--	--	--	--	--
Ankistrodesmus	21	22829.00	37.00	3129.76	5219.89	3055.00	1439.00	460.00
Chlorella	3	1243.00	35.00	--	--	--	--	--
Closteriopsis	1	57.00	57.00	--	--	--	--	--
Dictyosphaerium	13	16603.00	276.00	2451.31	4339.44	1849.00	1531.00	392.00
Franceia	3	1497.00	8.00	--	--	--	--	--
Kirchneriella	7	294.00	14.00	120.71	105.22	192.00	69.00	36.00
Nephrocystium	2	684.00	55.00	--	--	--	--	--
Oocystis	16	6585.00	192.00	1078.69	1521.25	1113.00	603.00	406.50
Selenastrum	8	576.00	26.00	227.50	173.20	301.00	167.50	140.50
Treubaria	3	765.00	234.00	--	--	--	--	--
Westella	1	3592.00	3592.00	--	--	--	--	--
Chodatella	9	2095.00	49.00	674.89	780.41	574.00	349.00	207.00
Actinastrum	10	4789.00	87.00	1294.10	1467.79	1578.00	779.50	192.00
Crucigenia	19	4151.00	196.00	1269.68	1007.04	2141.00	1105.00	460.00
Scenedesmus	35	4842.00	26.00	1228.54	1308.66	1665.00	865.00	179.00
Tetrasstrum	8	1529.00	192.00	823.25	508.18	1205.00	887.00	340.50
Golenkinia	1	288.00	288.00	--	--	--	--	--
Micractinium	4	342.00	37.00	--	--	--	--	--
Euglena	4	279.00	57.00	--	--	--	--	--
Trachelomonas	14	2393.00	15.00	360.93	601.97	335.00	205.50	57.00

## 06354000 Cannonball River at Breien, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1949 through August 1994

Water-quality constituent	Descriptive statistics						Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation		75	Median 50	25
Algae data--Continued									
Chroomonas	1	11.00	11.00	--	--	--	--	--	--
Cryptomonas	4	684.00	11.00	--	--	--	--	--	--
Chroomonas	1	55.00	55.00	--	--	--	--	--	--
Cryptomonas	3	863.00	98.00	--	--	--	--	--	--
Gymnodinium	2	225.00	15.00	--	--	--	--	--	--
Glennodinium	2	49.00	13.00	--	--	--	--	--	--
Peridinium	5	426.00	57.00	173.60	147.94	179.00	114.00	92.00	92.00
Chrysococcus	2	49.00	20.00	--	--	--	--	--	--
Dinobryon	1	22.00	22.00	--	--	--	--	--	--
Ochromonas	1	49.00	49.00	--	--	--	--	--	--
Stenocalyx	1	391.00	391.00	--	--	--	--	--	--
Cyclotella	22	2052.00	13.00	394.18	551.80	477.00	170.50	45.00	45.00
Melosira	4	2302.00	57.00	--	--	--	--	--	--
Asterionella	2	3989.00	851.00	--	--	--	--	--	--
Fragilaria	3	570.00	18.00	--	--	--	--	--	--
Synedra	6	798.00	26.00	175.83	305.48	87.00	51.00	42.00	42.00
Achnanthes	2	90.00	11.00	--	--	--	--	--	--
Cocconeis	2	721.00	216.00	--	--	--	--	--	--
Entomoneis	2	37.00	22.00	--	--	--	--	--	--
Caloneis	2	29.00	19.00	--	--	--	--	--	--
Diploneis	2	426.00	11.00	--	--	--	--	--	--
Gyrosigma	1	1442.00	1442.00	--	--	--	--	--	--
Navicula	19	1482.00	12.00	224.32	351.67	395.00	69.00	24.00	24.00
Pinnularia	1	721.00	721.00	--	--	--	--	--	--
Plagiotropis	1	45.00	45.00	--	--	--	--	--	--
Gomphonema	3	721.00	13.00	--	--	--	--	--	--
Amphora	1	721.00	721.00	--	--	--	--	--	--
Cymbella	3	18.00	10.00	--	--	--	--	--	--
Epithemia	2	191.00	29.00	--	--	--	--	--	--
Rhopalodia	3	216.00	14.00	--	--	--	--	--	--
Hantzschia	1	216.00	216.00	--	--	--	--	--	--
Nitzschia	28	3077.00	8.00	711.29	806.52	995.00	459.50	97.00	97.00
Cynatopleura	1	1442.00	1442.00	--	--	--	--	--	--
Suriella	5	267.00	14.00	131.60	117.58	228.00	135.00	14.00	14.00
Gomphosphaeria	1	865.00	865.00	--	--	--	--	--	--
Anacystis	10	2861.00	13.00	1034.40	957.60	1514.00	1061.00	43.00	43.00

06354000 Cannonball River at Breien, North Dakota--Continued

Summary of water-quality data collected at periodic intervals, October 1949 through August 1994

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Algae data--Continued								
Agmenellum	5	8206.00	290.00	3429.60	3122.81	4789.00	1933.00	1930.00
Coccochloris	2	191.00	111.00	--	--	--	--	--
Lyngbya	3	5588.00	3805.00	--	--	--	--	--
Oscillatoria	6	19556.00	288.00	6043.67	7312.50	8381.00	3394.50	1248.00
Schizothrix	1	361.00	361.00	--	--	--	--	--
Anabaena	3	1611.00	530.00	--	--	--	--	--
Anabaenopsis	5	6868.00	212.00	3304.60	2933.76	5388.00	3538.00	517.00
Aphanizomenon	3	20032.00	4490.00	--	--	--	--	--
Cylindrospermum	1	2859.00	2859.00	--	--	--	--	--

Summary of daily streamflow data, September 1934 through September 1993

Month	Descriptive statistics					Percent of days that had values less than or equal to those shown in ft <sup>3</sup> /s				
	Maximum (ft <sup>3</sup> /s)	Minimum (ft <sup>3</sup> /s)	Mean (ft <sup>3</sup> /s)	Standard deviation (ft <sup>3</sup> /s)	Coefficient of variation	Percent of annual runoff	95	75	Median 50	25
October	802.00	0.00	29.56	62.63	211.86	1.1	119.00	28.00	13.00	2.00
November	882.00	0.33	25.99	41.80	160.88	0.9	68.00	35.00	17.00	8.00
December	140.00	0.00	14.49	14.94	103.11	0.5	40.00	20.00	11.00	4.00
January	1200.00	0.00	15.04	72.82	484.18	0.5	32.00	13.00	4.50	0.50
February	8000.00	0.00	61.69	327.05	530.17	2.0	200.00	21.00	4.00	0.30
March	22000.00	0.00	816.00	2258.93	276.83	29.1	3500.00	573.50	120.00	25.00
April	63100.00	5.00	864.75	2865.84	331.41	29.8	4140.00	463.50	177.00	78.00
May	8180.00	2.40	331.58	791.61	238.74	11.8	1474.20	239.00	92.00	35.50
June	10400.00	0.50	398.89	818.70	205.24	13.8	1840.00	368.08	121.00	41.00
July	4530.00	0.00	201.78	425.78	211.02	7.2	783.00	185.00	80.00	25.00
August	2480.00	0.00	61.92	132.57	214.09	2.2	227.00	69.00	28.70	5.15
September	2080.00	0.00	32.39	86.78	267.93	1.1	104.00	31.00	15.00	2.20
Annual	63100.00	0.00	238.02	1152.85	484.36	100.0	904.00	103.00	25.00	6.90

**Table 2.** Summary of daily streamflow data obtained from the U.S. Geological Survey

**Abbreviations and symbols**

ft<sup>3</sup>/s, cubic feet per second

mi<sup>2</sup>, square miles

--, no data

06352300 Cedar Creek near North Lemmon, South Dakota

LOCATION.--Lat. 46°04'00", long. 102°11'00", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 22, T. 130 N., R. 92 W., Adams County, Hydrologic Unit 10130205.  
DRAINAGE AREA.--901 mi<sup>2</sup>.

REMARKS.--No water-quality data available for this site.

Summary of daily streamflow data, May 1959 through September 1963

Month	Descriptive statistics					Percent of annual runoff	Percent of days that had values less than or equal to those shown in ft <sup>3</sup> /s				
	Maximum (ft <sup>3</sup> /s)	Minimum (ft <sup>3</sup> /s)	Mean (ft <sup>3</sup> /s)	Standard deviation (ft <sup>3</sup> /s)	Coefficient of variation		95	75	Median 50	25	5
October	0.50	0.00	0.02	0.07	304.47	0.0	0.10	0.00	0.00	0.00	0.00
November	0.80	0.00	0.12	0.26	220.10	0.1	0.80	0.00	0.00	0.00	0.00
December	0.80	0.00	0.11	0.22	193.09	0.1	0.70	0.05	0.00	0.00	0.00
January	0.10	0.00	0.01	0.03	270.66	0.0	0.10	0.00	0.00	0.00	0.00
February	6.00	0.00	0.60	1.36	226.77	0.6	4.00	0.00	0.00	0.00	0.00
March	250.00	0.00	23.74	40.86	172.08	27.8	90.00	35.00	3.45	0.00	0.00
April	51.00	0.40	10.46	11.94	114.20	11.8	36.00	16.50	4.95	1.50	0.50
May	367.00	0.40	10.03	34.22	341.36	14.7	23.00	6.70	3.00	1.70	0.70
June	226.00	0.00	25.30	40.73	160.96	35.8	95.00	34.00	8.15	0.40	0.00
July	34.00	0.00	2.17	4.14	190.72	3.2	9.00	3.70	0.20	0.00	0.00
August	100.00	0.00	3.44	12.98	377.55	5.0	22.00	0.00	0.00	0.00	0.00
September	11.00	0.00	0.54	1.76	322.73	0.8	5.20	0.00	0.00	0.00	0.00
Annual	367.00	0.00	6.57	22.36	340.55	100.0	35.00	2.60	0.00	0.00	0.00

06352525 Hay Creek near Morristown, South Dakota

LOCATION.--Lat. 45°57'39", long. 101°38'40", in NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 25, T. 129 N., R. 88 W., Sioux County, Hydrologic Unit 10130205.

DRAINAGE AREA.--86 mi<sup>2</sup>.

REMARKS.--No water-quality data available for this site.

Summary of daily streamflow data, July 1991 through May 1993

Month	Descriptive statistics					Percent of annual runoff	Percent of days that had values less than or equal to those shown in ft <sup>3</sup> /s				
	Maximum (ft <sup>3</sup> /s)	Minimum (ft <sup>3</sup> /s)	Mean (ft <sup>3</sup> /s)	Standard deviation (ft <sup>3</sup> /s)	Coefficient of variation		95	75	Median 50	25	5
October	0.00	0.00	0.00	0.00	--	0.0	0.00	0.00	0.00	0.00	0.00
November	0.00	0.00	0.00	0.00	--	0.0	0.00	0.00	0.00	0.00	0.00
December	0.00	0.00	0.00	0.00	--	0.0	0.00	0.00	0.00	0.00	0.00
January	0.00	0.00	0.00	0.00	--	0.0	0.00	0.00	0.00	0.00	0.00
February	0.00	0.00	0.00	0.00	--	0.0	0.00	0.00	0.00	0.00	0.00
March	189.00	0.00	14.32	40.62	283.63	44.2	121.00	1.20	0.00	0.00	0.00
April	87.00	0.00	18.02	22.90	127.06	53.8	70.00	34.50	4.65	0.00	0.00
May	11.00	0.00	1.19	3.38	282.90	2.1	11.00	0.00	0.00	0.00	0.00
June	0.00	0.00	0.00	0.00	--	0.0	0.00	0.00	0.00	0.00	0.00
July	0.00	0.00	0.00	0.00	--	0.0	0.00	0.00	0.00	0.00	0.00
August	0.00	0.00	0.00	0.00	--	0.0	0.00	0.00	0.00	0.00	0.00
September	0.00	0.00	0.00	0.00	--	0.0	0.00	0.00	0.00	0.00	0.00
Annual	189.00	0.00	4.38	18.42	420.44	100.0	34.00	0.00	0.00	0.00	0.00

**Table 3.** Summary of surface-water quality data obtained from the U.S. Geological Survey for sites where one or two water-quality samples were collected

[Certain properties or constituents may be listed more than once; however, no distinction is made between field and laboratory values]

### **Abbreviations and symbols**

JCU, Jackson candle unit

mg/L, milligrams per liter

µg/L, micrograms per liter

µS/cm, microsiemens per centimeter at 25 degrees Celsius

--, no data



461130102071500 Timber Creek near Bentley, North Dakota

LOCATION.--Lat. 46°11'30", long. 102°07'15", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 6, T. 131 N., R. 91 W., Adams County, Hydrologic Unit 10130205.

DRAINAGE AREA.--Not determined.

REMARKS.--No daily streamflow data available for this site.

Summary of water-quality data collected, April 1975 through November 1975

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size <sup>1</sup>	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	2	10.50	1.50	--	--	--	--	--
Discharge, instantaneous (cubic feet per second)	2	168.00	0.14	--	--	--	--	--
Turbidity (JCU)	2	140.00	1.00	--	--	--	--	--
Color (platinum cobalt scale)	2	90.00	5.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	2	2200.00	580.00	--	--	--	--	--
Oxygen, dissolved (mg/L)	2	10.80	9.80	--	--	--	--	--
pH, water, whole, field (standard units)	2	8.00	7.80	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	2	5.60	1.70	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	2	289.00	56.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	2	352.00	68.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	2	0.00	0.00	--	--	--	--	--
Nitrogen, total (mg/L as N)	2	2.34	0.61	--	--	--	--	--
Nitrogen, organic, total (mg/L as N)	2	1.98	0.61	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as N)	1	0.12	0.12	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	2	2.10	0.61	--	--	--	--	--
Nitrogen, nitrite plus nitrate, total (mg/L as N)	1	0.24	0.24	--	--	--	--	--
Phosphorus, total (mg/L as P)	1	0.32	0.32	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	2	14.00	7.30	--	--	--	--	--
Carbon, organic, suspended, total (mg/L as C)	2	2.40	0.20	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	2	720.06	178.77	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	2	430.00	120.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	130.00	32.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	96.00	24.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	230.00	46.00	--	--	--	--	--
Sodium adsorption ratio	2	3.73	1.50	--	--	--	--	--
Sodium (percent)	2	40.60	34.36	--	--	--	--	--
Potassium, dissolved (mg/L as K)	2	9.80	9.70	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	6.80	3.10	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	2	940.00	210.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	0.30	0.10	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	2	7.30	5.20	--	--	--	--	--
Arsenic, total (µg/L as As)	1	4.00	4.00	--	--	--	--	--

461130102071500 Timber Creek near Bentley, North Dakota--Continued

Summary of water-quality data collected, April 1975 through November 1975

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size <sup>1</sup>	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Beryllium, total (µg/L as Be)	1	10.00	10.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	2	670.00	230.00	--	--	--	--	--
Chromium, total (µg/L as Cr)	1	20.00	20.00	--	--	--	--	--
Iron, total (µg/L as Fe)	2	6300.00	190.00	--	--	--	--	--
Manganese, total (µg/L as Mn)	2	300.00	90.00	--	--	--	--	--
Molybdenum, total (µg/L as Mo)	1	3.00	3.00	--	--	--	--	--
Zinc, total (µg/L as Zn)	1	40.00	40.00	--	--	--	--	--
Aluminum, total (µg/L as Al)	2	4700.00	140.00	--	--	--	--	--
Lithium, total (µg/L as Li)	2	80.00	20.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	1720.00	408.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	1591.75	365.97	--	--	--	--	--
Solids, dissolved (tons per day)	2	185.07	0.65	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	2.34	0.56	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as NH4)	1	0.16	0.16	--	--	--	--	--
Nitrogen, total (mg/L as NO3)	2	10.36	2.70	--	--	--	--	--
Mercury, total, recoverable (µg/L as Hg)	1	1.80	1.80	--	--	--	--	--

<sup>1</sup>In some cases, two water samples were collected.

461453103144401 Cedar Creek near Buffalo Springs, North Dakota

LOCATION.--Lat. 46°14'53", long. 103°14'44", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec. 19, T. 132 N., R. 100 W., Bowman County, Hydrologic Unit 10130205.

DRAINAGE AREA.--Not determined.

REMARKS.--No daily streamflow data available for this site.

Summary of water-quality data collected, October 1975

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	1	8.00	8.00	--	--	--	--	--
Discharge, instantaneous (cubic feet per second)	1	0.14	0.14	--	--	--	--	--
Turbidity (JCU)	1	2.00	2.00	--	--	--	--	--
Color (platinum cobalt scale)	1	80.00	80.00	--	--	--	--	--
Specific conductance (μS/cm at 25 degrees Celsius)	1	5000.00	5000.00	--	--	--	--	--
pH, water, whole, field (standard units)	1	8.40	8.40	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	5.40	5.40	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	1	693.00	693.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	819.00	819.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	13.00	13.00	--	--	--	--	--
Nitrogen, total (mg/L as N)	1	3.21	3.21	--	--	--	--	--
Nitrogen, organic, total (mg/L as N)	1	3.18	3.18	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as N)	1	0.02	0.02	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	1	3.20	3.20	--	--	--	--	--
Nitrogen, nitrite plus nitrate, total (mg/L as N)	1	0.01	0.01	--	--	--	--	--
Phosphorus, total (mg/L as P)	1	0.11	0.11	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	49.00	49.00	--	--	--	--	--
Carbon, organic, suspended, total (mg/L as C)	1	1.50	1.50	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	1	641.28	641.28	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	1	110.00	110.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	1	89.00	89.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	1	990.00	990.00	--	--	--	--	--
Sodium adsorption ratio	1	17.01	17.01	--	--	--	--	--
Sodium (percent)	1	76.47	76.47	--	--	--	--	--
Potassium, dissolved (mg/L as K)	1	17.00	17.00	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	1	12.00	12.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	1	2000.00	2000.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	1	0.20	0.20	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	1	8.20	8.20	--	--	--	--	--
Arsenic, total (μg/L as As)	1	5.00	5.00	--	--	--	--	--
Beryllium, total (μg/L as Be)	1	10.00	10.00	--	--	--	--	--

## Summary of water-quality data collected, October 1975

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Boron, dissolved ( $\mu\text{g/L}$ as B)	1	2600.00	2600.00	--	--	--	--	--
Chromium, total ( $\mu\text{g/L}$ as Cr)	1	14.00	14.00	--	--	--	--	--
Iron, total ( $\mu\text{g/L}$ as Fe)	1	250.00	250.00	--	--	--	--	--
Manganese, total ( $\mu\text{g/L}$ as Mn)	1	90.00	90.00	--	--	--	--	--
Molybdenum, total ( $\mu\text{g/L}$ as Mo)	1	4.00	4.00	--	--	--	--	--
Zinc, total ( $\mu\text{g/L}$ as Zn)	1	60.00	60.00	--	--	--	--	--
Aluminum, total ( $\mu\text{g/L}$ as Al)	1	140.00	140.00	--	--	--	--	--
Lithium, total ( $\mu\text{g/L}$ as Li)	1	80.00	80.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	1	3610.00	3610.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	1	3644.70	3644.70	--	--	--	--	--
Solids, dissolved (tons per day)	1	1.37	1.37	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	1	4.91	4.91	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as $\text{NH}_4$ )	1	0.03	0.03	--	--	--	--	--
Nitrogen, total (mg/L as $\text{NO}_3$ )	1	14.21	14.21	--	--	--	--	--
Mercury, total, recoverable ( $\mu\text{g/L}$ as Hg)	1	0.50	0.50	--	--	--	--	--

**Table 4.** Ground-water quality data obtained from the U.S. Geological Survey for sites where one water-quality sample was collected

### Abbreviations and symbols

mg/L, milligrams per liter  
 µg/L, micrograms per liter  
 µS/cm, microsiemens per centimeter at 25 degrees Celsius  
 --, no data

### County code

001, Adams County  
 011, Bowman County  
 037, Grant County  
 041, Hettinger County  
 059, Morton County  
 085, Sioux County  
 087, Slope County  
 089, Stark County

### Geologic unit

112	Pleistocene
125	Paleocene
211	Upper Cretaceous
BGFV	Buried glaciofluvial deposits
CBLD	Cannonball-Ludlow Members of Fort Union Formation
CNBL	Cannonball Member of Fort Union Formation
EMCK	Elm Creek aquifer
FXHL	Fox Hills Sandstone
HCFH	Hell Creek Formation-Fox Hills Sandstone
HLCK	Hell Creek Formation
HRMN	Harmon lignite aquifer
LDLW	Ludlow Member of Fort Union Formation
LHCK	Ludlow Member of Fort Union Formation-Hell Creek Formation
LTHR	Little Heart aquifer
SBTR	Sentinel Butte-Tongue River Members of Fort Union Formation
SJMS	St. James aquifer
SLDS	Shields aquifer
SNLB	Sentinel Butte Member of Fort Union Formation
TGRV	Tongue River Member of Fort Union Formation
TRVL	Tongue River-Ludlow Members of Fort Union Formation

Site number	Local identifier	County code	Hydrologic unit	Geologic unit	Date	Depth below land surface, water level (feet)	Depth of well, total (feet)	Altitude of land surface, datum (feet)	Specific conductance, field (μS/cm)	Specific conductance, lab (μS/cm)
455645101434801	129-088-31DDA	085	10130205	125CNBL	08-16-71	--	312	--	2150	--
455704101414501	129-088-33DBB	085	10130205	125CNBL	06-02-69	--	180	--	4660	--
455733101172701	129-085-26CCC1	085	10130205	211HLCK	08-19-71	--	280	--	2020	--
455742102094601	129-092-26CCB	001	10130205	125LDLW	06-23-71	--	222	2642	3660	--
455805101574601	129-090-29ACA	085	10130205	211HLCK	08-11-71	--	360	--	2050	--
455822102190802	129-093-28ABB2	001	10130205	125TRVL	06-15-71	--	65	--	1950	--
455822102190803	129-093-28ABB3	001	10130205	125LDLW	06-24-71	--	240	--	1670	--
455823101450301	129-089-24DDD1	085	10130205	125CNBL	08-16-71	--	222	--	2160	--
455823101450302	129-089-24DDD2	085	10130205	125CNBL	08-16-71	--	210	--	2000	--
455828101592301	129-090-19CD	085	10130205	211HLCK	04-12-59	--	335	--	1910	--
455832101120001	129-084-21CDA	085	10130206	211HLCK	12-09-71	--	300	--	1750	--
455850101510701	129-089-20BCC1	085	10130205	125CNBL	08-12-71	--	225	--	2260	--
455850101510702	129-089-20BCC2	085	10130205	125CNBL	08-12-71	--	250	--	2900	--
455912102064701	129-091-19BAA	001	10130205	125TRVL	06-21-71	--	80	--	935	--
455922101511701	129-089-18DDA	085	10130205	125CNBL	08-12-71	--	245	--	2730	--
460010102060001	129-091-8CCC	001	10130205	125LDLW	06-15-71	--	261	2450	1790	--
460032102210001	129-093-8CBB1	001	10130205	125LHCK	06-14-72	--	363	2460	1870	--
460032102210002	129-093-8CBB2	001	10130205	125LDLW	06-13-72	--	207	2460	1760	--
460034103133201	129-100-7DAA	011	10130205	125LHCK	08-20-70	--	206	2820	2570	--
460056102061001	129-091-7AAA1	001	10130205	125LHCK	09-27-71	--	348	2422	1770	--
460059101423201	129-088-5DDD1	085	10130205	211HLCK	07-04-73	--	466	2200	2120	--
460059101423202	129-088-5DDD2	085	10130205	211HLCK	07-04-73	--	348	2200	1670	--
460059101423203	129-088-5DDD3	085	10130205	--	07-04-73	--	180	2200	1710	--
460101101265701	129-086-4CDD1	085	10130205	211HLCK	08-18-71	--	56	--	1320	--
460102102135001	129-092-6DDC	001	10130205	125CNBL	08-11-70	--	80	--	3190	--
460223102294601	130-094-31BCC	001	10130205	125TRVL	06-18-71	--	116	--	6490	--
460239101135301	130-084-31AAA1	085	10130206	211HLCK	07-10-73	--	466	2238	4260	--
460240101075501	130-084-36ABA	085	10130206	211FXHL	10-10-73	--	417	2148	2470	--
460244101272701	130-086-28CCC1	085	10130205	211FXHL	07-05-73	--	424	2062	2130	--
460246101041201	130-083-28DCD1	085	10130206	211HLCK	09-24-69	--	274	--	2030	--
460246101041202	130-083-28DCD2	085	10130206	211HLCK	09-23-69	--	390	--	2530	--
460332102105202	130-092-27BBA2	001	10130205	125LDLW	10-10-71	--	204	2383	1820	--
460332102105203	130-092-27BBA3	001	10130205	125LHCK	06-15-72	--	374	2383	1670	--
460336102334001	130-095-28AAA	001	10130205	125TRVL	07-08-71	--	257	--	3190	--
460337101404201	130-088-22CDD	037	10130205	211HLCK	11-03-71	--	350	--	1680	--
460358102110101	130-092-22CBB	001	10130205	125CNBL	06-29-71	--	31	2330	1780	--
460449101200702	130-085-17DAA	085	10130205	211FXHL	04-18-72	--	361	--	1860	--
460501102405801	130-096-15BCC	001	10130205	125TRVL	07-02-71	--	135	--	1430	--
460521102384801	130-096-14AAB	001	10130205	125TRVL	07-02-71	--	198	--	1840	--
460522101550201	130-090-10DDD	037	10130205	125CNBL	09-08-71	--	210	--	3100	--
460526102284101	130-094-7DDD1	001	10130205	125TRVL	06-15-72	--	390	2570	1670	--
460526102284102	130-094-7DDD2	001	10130205	125TRVL	06-15-72	--	253	2570	2100	--
460541101562201	130-090-9ADA	037	10130205	211HLCK	06-16-67	--	233	--	2280	--
460608102042801	130-091-9BAB	001	10130205	125LHCK	04-14-71	--	340	2405	1890	--
460639102570801	130-098-4CBB	001	10130205	125TRVL	06-30-71	--	95	--	1140	--

Site number	Date	pH, field (stand- ard units)	pH, lab (stand- ard units)	Temper- ature, water (degrees Celsius)	Color (plati- num cobalt scale)	Hard- ness, total (mg/L as CaCO <sub>3</sub> )	Noncar- bonate hard- ness, total (mg/L as CaCO <sub>3</sub> )	Alka- linity, field (mg/L as CaCO <sub>3</sub> )	Alka- linity, lab (mg/L as CaCO <sub>3</sub> )	Solids, sum of consti- tuents, dis- solved (mg/L)	Solids, residue at 105 degrees Celsius, total (mg/L)
455645101434801	08-16-71	7.9	--	--	2000	250	0	--	--	1490	--
455704101414501	06-02-69	4.3	--	--	--	4800	--	--	--	3160	--
455733101172701	08-19-71	8.1	--	--	--	450	0	--	--	1360	--
455742102094601	06-23-71	7.8	--	--	--	730	120	--	--	2810	--
455805101574601	08-11-71	8.0	--	9.5	--	39	0	--	--	1380	--
455822102190802	06-15-71	8.1	--	--	--	150	0	--	--	1310	--
455822102190803	06-24-71	8.4	--	9.0	--	15	0	--	--	1060	--
455823101450301	08-16-71	8.4	--	--	--	38	0	--	--	1390	--
455823101450302	08-16-71	8.3	--	--	--	77	0	--	--	1390	--
455828101592301	04-12-59	8.1	--	8.5	40	19	0	--	--	1250	--
455832101120001	12-09-71	8.0	--	--	--	30	0	--	--	1140	--
455850101510701	08-12-71	8.0	--	--	--	44	0	--	--	1500	--
455850101510702	08-12-71	8.1	--	9.5	--	120	0	--	--	2010	--
455912102064701	06-21-71	7.8	--	10.0	--	160	0	--	--	568	--
455922101511701	08-12-71	8.1	--	--	--	110	0	--	--	1860	--
460010102060001	06-15-71	8.4	--	10.0	--	27	0	--	--	1170	--
460032102210001	06-14-72	8.3	--	11.0	--	20	0	--	--	1150	--
460032102210002	06-13-72	8.2	--	10.0	--	27	0	--	--	1100	--
460034103133201	08-20-70	8.4	--	12.0	--	9	0	--	--	1690	--
460056102061001	09-27-71	8.7	--	10.0	--	18	0	--	--	1080	--
460059101423201	07-04-73	8.5	--	12.0	--	18	0	--	--	1250	--
460059101423202	07-04-73	8.3	--	11.0	--	13	0	--	--	1060	--
460059101423203	07-04-73	8.3	--	13.0	--	21	0	--	--	1080	--
460101101265701	08-18-71	8.5	--	--	--	13	0	--	--	831	--
460102102135001	08-11-70	8.3	--	9.0	--	160	0	--	--	2340	--
460223102294601	06-18-71	6.9	--	9.5	--	2000	1700	--	--	5950	--
460239101135301	07-10-73	8.0	--	13.5	--	500	95	--	--	3340	--
460240101075501	10-10-73	8.4	--	10.0	--	22	0	--	--	1450	--
460244101272701	07-05-73	8.5	--	11.0	--	16	0	--	--	1260	--
460246101041201	09-24-69	8.9	--	--	--	32	--	--	--	1200	--
460246101041202	09-23-69	8.6	--	--	--	46	--	--	--	1540	--
460332102105202	10-10-71	8.4	--	10.0	--	61	0	--	--	1180	--
460332102105203	06-15-72	8.7	--	--	--	23	0	--	--	991	--
460336102334001	07-08-71	8.2	--	--	--	62	0	--	--	2210	--
460337101404201	11-03-71	8.5	--	--	--	17	0	--	--	997	--
460358102110101	06-29-71	8.2	--	9.5	--	17	0	--	--	1150	--
460449101200702	04-18-72	8.1	--	--	--	580	340	--	--	1380	--
460501102405801	07-02-71	8.2	--	--	--	56	0	--	--	936	--
460521102384801	07-02-71	8.0	--	--	--	100	0	--	--	1230	--
460522101550201	09-08-71	8.2	--	--	--	100	0	--	--	2210	--
460526102284101	06-15-72	8.2	--	11.5	--	62	0	--	--	1060	--
460526102284102	06-15-72	8.6	--	--	--	94	0	--	--	1370	--
460541101562201	06-16-67	7.8	--	--	--	24	0	--	--	1500	--
460608102042801	04-14-71	8.2	--	--	--	18	0	--	--	1190	--
460639102570801	06-30-71	7.7	--	--	--	280	0	--	--	744	--

Site number	Date	Solids, residue at 180 degrees Celsius, dissolved (mg/L)	Solids, dissolved (tons per acre-foot)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium (percent)	Sodium adsorption ratio	Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO <sub>3</sub> )
455645101434801	08-16-71	1460	1.99	62	22	430	79	12	5.00	3.9	590
455704101414501	06-02-69	3680	--	1100	470	150	--	0.9	--	--	--
455733101172701	08-19-71	1430	1.94	110	43	320	60	7	2.00	4.0	660
455742102094601	06-23-71	2850	3.88	160	82	660	66	11	--	13	750
455805101574601	08-11-71	1330	1.81	11	2.8	480	96	33	9.00	3.4	590
455822102190802	06-15-71	1320	1.80	24	22	420	86	15	--	3.9	640
455822102190803	06-24-71	1050	1.43	3.8	1.3	420	98	47	--	2.2	890
455823101450301	08-16-71	1390	1.89	12	1.9	500	96	36	12.0	2.0	740
455823101450302	08-16-71	1330	1.81	23	4.7	470	93	23	11.0	2.3	730
455828101592301	04-12-59	1270	1.73	5.1	1.6	460	98	46	--	2.4	720
455832101120001	12-09-71	1140	1.55	10	1.2	420	97	33	9.00	1.4	710
455850101510701	08-12-71	1530	2.08	13	2.8	510	96	34	10.0	3.4	670
455850101510702	08-12-71	2010	2.73	34	9.2	640	91	25	8.00	5.5	610
455912102064701	06-21-71	556	0.76	41	14	150	66	5	--	4.3	410
455922101511701	08-12-71	1920	2.61	31	6.7	610	92	26	8.00	5.3	600
460010102060001	06-15-71	1180	1.60	7.2	2.2	420	97	35	--	2.9	590
460032102210001	06-14-72	1140	1.55	4.7	2.1	470	98	45	19.0	2.5	1140
460032102210002	06-13-72	1120	1.52	5.2	3.4	430	97	36	15.0	2.4	940
460034103133201	08-20-70	1730	2.35	0.60	1.9	610	99	86	--	1.9	720
460056102061001	09-27-71	1090	1.48	4.7	1.6	440	98	45	17.0	2.4	970
460059101423201	07-04-73	1290	1.75	3.4	2.3	500	98	51	14.0	2.9	840
460059101423202	07-04-73	1100	1.50	3.3	1.1	440	99	54	14.0	0.80	870
460059101423203	07-04-73	1080	1.47	4.6	2.3	410	97	39	13.0	2.7	780
460101101265701	08-18-71	816	1.11	4.7	0.40	330	98	39	11.0	1.2	680
460102102135001	08-11-70	2220	3.02	29	21	740	91	25	--	5.8	640
460223102294601	06-18-71	6150	8.36	400	240	1100	54	10	--	25	400
460239101135301	07-10-73	3320	4.52	120	49	900	79	17	0.0	6.4	500
460240101075501	10-10-73	1470	2.00	7.4	0.90	540	98	50	--	2.0	680
460244101272701	07-05-73	1310	1.78	3.8	1.6	510	98	55	15.0	3.2	870
460246101041201	09-24-69	1350	--	--	--	--	--	--	--	--	--
460246101041202	09-23-69	1770	--	--	--	--	--	--	--	--	--
460332102105202	10-10-71	1250	1.70	14	6.3	450	93	25	15.0	5.9	940
460332102105203	06-15-72	1100	1.50	6.0	1.9	420	97	38	17.0	3.0	980
460336102334001	07-08-71	2170	2.95	13	7.2	760	96	42	--	4.3	730
460337101404201	11-03-71	1040	1.41	4.0	1.7	410	98	43	15.0	1.2	890
460358102110101	06-29-71	1170	1.59	4.2	1.6	460	98	48	--	2.1	920
460449101200702	04-18-72	1420	1.93	100	77	220	44	4	0.0	9.2	300
460501102405801	07-02-71	913	1.24	11	6.9	340	92	20	--	5.2	630
460521102384801	07-02-71	1240	1.69	20	13	410	89	18	--	6.7	620
460522101550201	09-08-71	2170	2.95	27	8.4	760	94	33	15.0	4.5	1050
460526102284101	06-15-72	1080	1.47	10	9.0	430	93	24	17.0	2.9	1120
460526102284102	06-15-72	1400	1.90	18	12	480	91	22	14.0	3.8	880
460541101562201	06-16-67	1520	--	--	--	590	--	--	--	--	1060
460608102042801	04-14-71	1110	1.51	4.6	1.6	480	98	50	--	2.2	1180
460639102570801	06-30-71	768	1.04	59	31	160	54	4	--	11	410



Site number	Date	Car- bonate (mg/L as CO <sub>3</sub> )	Carbon dioxide, dis- solved (mg/L as CO <sub>2</sub> )	Sulfate, dis- solved (mg/L as SO <sub>4</sub> )	Chlo- ride, dis- solved (mg/L as Cl)	Fluoride, dis- solved (mg/L as F)	Silica, dis- solved (mg/L as SiO <sub>2</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as N)	Nitro- gen, nitrate, total (mg/L as NO <sub>3</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as NO <sub>3</sub> )	Boron, dis- solved (µg/L as B)
455645101434801	08-16-71	0	--	670	6.4	0.30	15	0.045	0.20	--	620
455704101414501	06-02-69	--	--	2000	17	--	--	11.3	50	--	--
455733101172701	08-19-71	0	--	540	7.8	0.30	5.4	1.69	7.5	--	1400
455742102094601	06-23-71	0	--	1500	29	0.70	9.3	--	--	8.1	730
455805101574601	08-11-71	0	--	580	3.3	1.3	9.0	0.226	1.0	--	1500
455822102190802	06-15-71	0	8.2	460	24	1.0	10	5.90	--	26	340
455822102190803	06-24-71	14	--	150	9.6	8.9	8.0	--	--	1.0	1200
455823101450301	08-16-71	14	--	480	1.5	1.2	9.8	0.565	2.5	--	890
455823101450302	08-16-71	6	--	510	2.6	1.1	10	0.565	2.5	--	1100
455828101592301	04-12-59	0	--	400	9.6	1.4	8.8	0.316	1.4	--	1200
455832101120001	12-09-71	0	--	340	0.0	0.60	10	0.226	1.0	--	890
455850101510701	08-12-71	0	--	620	5.4	0.70	11	0.452	2.0	--	1800
455850101510702	08-12-71	0	--	1000	5.3	0.20	10	0.045	0.20	--	1000
455912102064701	06-21-71	0	--	150	2.1	0.50	11	--	--	0.0	310
455922101511701	08-12-71	0	--	890	7.5	0.50	10	0.565	2.5	--	2000
460010102060001	06-15-71	12	--	420	5.3	1.3	9.7	--	--	1.0	240
460032102210001	06-14-72	19	--	14	67	3.2	8.1	--	--	1.0	820
460032102210002	06-13-72	0	--	170	13	5.5	8.0	--	--	1.0	1200
460034103133201	08-20-70	14	--	680	8.5	11	7.7	--	--	1.3	1000
460056102061001	09-27-71	51	--	24	58	3.0	7.7	--	--	1.0	750
460059101423201	07-04-73	24	4.5	23	270	3.2	9.1	0.230	1.0	1.0	2200
460059101423202	07-04-73	0	7.0	110	60	4.3	11	0.010	1.0	0.04	2200
460059101423203	07-04-73	7	6.4	210	39	3.0	8.2	0.560	2.5	2.5	1900
460101101265701	08-18-71	13	--	130	1.7	2.9	10	0.226	1.0	--	2100
460102102135001	08-11-70	4	--	1200	1.6	1.3	9.1	--	--	0.0	740
460223102294601	06-18-71	0	--	4000	34	0.80	21	--	--	21	1200
460239101135301	07-10-73	0	7.9	1900	83	0.30	7.3	6.30	28	28	1200
460240101075501	10-10-73	11	4.4	410	130	2.0	13	0.050	--	0.20	2600
460244101272701	07-05-73	20	4.6	30	250	3.2	11	0.050	0.20	0.20	2300
460246101041201	09-24-69	--	--	600	8.8	--	--	0.00	0.0	--	--
460246101041202	09-23-69	--	--	850	21	--	--	0.00	0.0	--	--
460332102105202	10-10-71	17	--	180	20	5.1	7.0	--	--	2.0	1000
460332102105203	06-15-72	53	--	13	0.30	2.7	7.3	--	--	1.0	1100
460336102334001	07-08-71	0	--	1000	6.5	3.0	9.1	--	--	0.40	1000
460337101404201	11-03-71	19	--	7.9	97	4.4	11	0.407	1.8	--	2000
460358102110101	06-29-71	0	--	210	7.3	7.2	8.2	--	--	0.0	1500
460449101200702	04-18-72	0	--	810	6.3	0.10	4.9	0.565	2.5	--	360
460501102405801	07-02-71	0	--	250	3.1	0.30	9.4	--	--	1.2	450
460521102384801	07-02-71	0	--	450	4.2	1.1	8.7	--	--	1.0	550
460522101550201	09-08-71	0	--	870	3.5	0.20	12	0.655	2.9	--	1100
460526102284101	06-15-72	0	--	12	23	6.5	8.9	--	--	1.0	1400
460526102284102	06-15-72	40	--	360	10	6.3	7.3	--	--	1.0	1300
460541101562201	06-16-67	0	--	400	14	--	--	0.00	0.0	--	--
460608102042801	04-14-71	0	--	49	48	4.8	9.8	--	--	1.0	830
460639102570801	06-30-71	0	--	270	4.5	0.30	8.4	--	--	2.5	900

Site number	Date	Iron, dis- solved (µg/L as Fe)	Lead, dis- solved (µg/L as Pb)	Lithium, dis- solved (µg/L as Li)	Manga- nese, dis- solved (µg/L as Mn)	Mercury, dis- solved (µg/L as Hg)	Molyb- denum, dis- solved (µg/L as Mo)	Selen- ium, dis- solved (µg/L as Se)	Stron- tium, dis- solved (µg/L as Sr)	Vana- dium, dis- solved (µg/L as V)	Zinc, dis- solved (µg/L as Zn)
455645101434801	08-16-71	240	--	--	140	--	--	--	--	--	--
455704101414501	06-02-69	3200	--	--	--	--	--	--	--	--	--
455733101172701	08-19-71	0	--	--	50	--	--	--	--	--	--
455742102094601	06-23-71	70	--	--	30	--	--	--	--	--	--
455805101574601	08-11-71	0	--	--	140	--	--	--	--	--	--
455822102190802	06-15-71	80	--	--	--	--	--	--	--	--	--
455822102190803	06-24-71	480	--	--	10	--	--	--	--	--	--
455823101450301	08-16-71	0	--	--	30	--	--	--	--	--	--
455823101450302	08-16-71	0	--	--	20	--	--	--	--	--	--
455828101592301	04-12-59	220	--	--	10	--	--	--	--	--	--
455832101120001	12-09-71	0	--	--	20	--	--	--	--	--	--
455850101510701	08-12-71	0	--	--	10	--	--	--	--	--	--
455850101510702	08-12-71	0	--	--	40	--	--	--	--	--	--
455912102064701	06-21-71	100	--	--	20	--	--	--	--	--	--
455922101511701	08-12-71	0	--	--	40	--	--	--	--	--	--
460010102060001	06-15-71	50	--	--	20	--	--	--	--	--	--
460032102210001	06-14-72	90	--	--	50	--	--	--	--	--	--
460032102210002	06-13-72	140	--	--	30	--	--	--	--	--	--
460034103133201	08-20-70	0	--	--	20	--	--	--	--	--	--
460056102061001	09-27-71	120	--	--	40	--	--	--	--	--	--
460059101423201	07-04-73	260	--	--	20	--	--	--	--	--	--
460059101423202	07-04-73	1100	--	--	20	--	--	--	--	--	--
460059101423203	07-04-73	40	--	--	<10	--	--	--	--	--	--
460101101265701	08-18-71	0	--	--	10	--	--	--	--	--	--
460102102135001	08-11-70	320	--	--	20	--	--	--	--	--	--
460223102294601	06-18-71	4800	--	--	3000	--	--	--	--	--	--
460239101135301	07-10-73	150	--	--	70	--	--	--	--	--	--
460240101075501	10-10-73	1200	--	--	80	--	--	--	--	--	--
460244101272701	07-05-73	<10	--	--	<10	--	--	--	--	--	--
460246101041201	09-24-69	690	--	--	--	--	--	--	--	--	--
460246101041202	09-23-69	2100	--	--	--	--	--	--	--	--	--
460332102105202	10-10-71	0	--	--	30	--	--	--	--	--	--
460332102105203	06-15-72	90	--	--	50	--	--	--	--	--	--
460336102334001	07-08-71	0	--	--	50	--	--	--	--	--	--
460337101404201	11-03-71	0	--	--	10	--	--	--	--	--	--
460358102110101	06-29-71	1700	--	--	10	--	--	--	--	--	--
460449101200702	04-18-72	0	--	--	80	--	--	--	--	--	--
460501102405801	07-02-71	0	--	--	20	--	--	--	--	--	--
460521102384801	07-02-71	0	--	--	30	--	--	--	--	--	--
460522101550201	09-08-71	0	--	--	80	--	--	--	--	--	--
460526102284101	06-15-72	160	--	--	40	--	--	--	--	--	--
460526102284102	06-15-72	0	--	--	60	--	--	--	--	--	--
460541101562201	06-16-67	1900	--	--	--	--	--	--	--	--	--
460608102042801	04-14-71	280	--	--	10	--	--	--	--	--	--
460639102570801	06-30-71	0	--	--	30	--	--	--	--	--	--

Site number	Local identifier	County code	Hydrologic unit	Geologic unit	Date	Depth below land surface, water level (feet)	Depth of well, total (feet)	Altitude of land surface, datum (feet)	Specific conductance, field (μS/cm)	Specific conductance, lab (μS/cm)
460653101571101	130-090-4BBD	037	10130205	125CNBL	09-07-71	--	65	--	2510	--
460707101355201	131-087-32CDC	037	10130205	125CNBL	11-05-71	--	327	--	897	--
460726101344601	131-087-33CBA	037	10130205	125CNBL	11-05-71	--	317	--	1120	--
460737101200701	131-085-32ADA	037	10130204	--	08-31-72	--	394	--	1310	--
460804102435401	131-096-30DCD	001	10130205	125TRVL	06-08-71	--	122	--	1330	--
460810102332801	131-095-27CCB	001	10130205	125TRVL	08-07-70	--	125	--	1640	--
460825101344601	131-087-28BCD	037	10130204	125CNBL	03-06-70	--	246	--	1210	--
460830102405702	131-096-27BCC2	001	10130204	125TRVL	06-08-71	--	140	--	2920	--
460830103044503	131-099-29ADD3	011	10130205	125HRMN	06-24-76	--	80	2796	1520	--
460845101512001	131-089-30AAA	037	10130205	211FXHL	07-02-73	--	809	2395	2330	--
460903102410701	131-096-21DDA	001	10130205	125TRVL	06-08-71	--	100	--	1760	--
460908102282701	131-094-20CBC1	001	10130205	211HCFH	07-22-71	--	1045	2500	1930	--
460908102282702	131-094-20CBC2	001	10130205	125LHCK	10-14-71	--	537	2500	2020	--
460908102282703	131-094-20CBC3	001	10130205	125LDLW	10-12-71	--	224	2500	1590	--
460910102533301	131-098-23DAD1	001	10130205	125CNBL	06-21-72	--	356	2882	1760	--
460910102533302	131-098-23DAD2	001	10130205	125TRVL	06-21-72	--	248	2882	1610	--
460939102183901	131-093-21AAA1	001	10130205	125LDLW	06-13-72	--	334	2549	1600	--
460939102183902	131-093-21AAA2	001	10130205	125LDLW	06-14-72	--	253	2552	1630	--
460939102183903	131-093-21AAA3	001	10130205	125TRVL	06-12-72	--	143	2549	3500	--
460941102330001	131-095-22BAA	001	10130205	125TRVL	07-07-71	--	31	--	2160	--
460944102033101	131-091-15CCC	001	10130205	125LHCK	06-09-72	--	537	2360	1860	--
460948102325101	131-095-15DCC	001	10130205	125TRVL	07-07-71	--	63	--	1140	--
460948102405701	131-096-15CCC1	001	10130205	125TRVL	06-11-71	--	60	--	1240	--
460951102010001	131-091-13CCB	001	10130205	125LDLW	08-07-70	--	345	2489	1870	--
460954101240201	131-086-14DAC	037	10130204	211HLCK	00-00-65	--	127	--	673	--
461015102433501	131-096-18ADD	001	10130205	125TRVL	06-08-71	--	202	--	803	--
461033101200701	131-085-8DDD1	037	10130204	211HLCK	11-17-71	--	394	--	1740	--
461037102033101	131-091-10CCC	001	10130205	125LDLW	09-22-71	--	408	2450	1780	--
461040102575401	131-098-8CDD	001	10130205	125TRVL	06-15-71	--	170	--	2030	--
461050103010001	130-099-11ADD	011	10130205	125TRVL	05-16-74	--	79	--	3790	--
461059102283701	131-094-7DAA	001	10130205	--	08-21-70	--	101	--	9430	--
461106102593701	131-098-7BCC	001	10130205	125CNBL	06-15-71	--	352	2959	1440	--
461123102132201	131-092-8BBA	001	10130205	125TRVL	08-07-70	--	202	--	3080	--
461129101562401	131-090-4DDC1	037	10130205	125TGRV	09-09-71	--	210	--	581	--
461145102385701	131-096-2DBD	001	10130205	125TRVL	06-11-71	--	73	--	1370	--
461148101565102	131-090-4CAA	037	10130205	125TGRV	09-09-71	--	230	--	1040	--
461151103033101	131-099-4DAA	011	10130205	125TRVL	04-14-71	--	390	2955	1450	--
461158101262201	131-086-4ADA	037	10130204	125CNBL	11-15-71	--	--	--	680	--
461159102532304	131-098-1BCC4	001	10130205	125TRVL	06-15-71	--	81	--	1580	--
461201101372501	131-087-6BCB1	037	10130204	211FXHL	11-05-71	--	560	--	1770	--
461207101373501	131-088-1AAD	037	10130204	125CNBL	02-03-71	--	560	--	1750	--
461216101594301	132-090-31CCD1	037	10130205	125TGRV	00-00-59	--	150	--	1210	--
461219101103202	132-083-35DDC2	085	10130206	112SLDS	08-25-71	--	93	1822	858	--
461226103045401	132-099-32DDC1	011	10130205	125LHCK	10-11-71	--	572	2900	2600	--
461226103045402	132-099-32DDC2	011	10130205	125TRVL	09-11-71	--	110	2900	1130	--

Site number	Date	pH, field (stand- ard units)	pH, lab (stand- ard units)	Temper- ature, water (degrees Celsius)	Color (plati- num cobalt scale)	Hard- ness, total (mg/L as CaCO <sub>3</sub> )	Noncar- bonate hard- ness, total (mg/L as CaCO <sub>3</sub> )	Alka- linity, field (mg/L as CaCO <sub>3</sub> )	Alka- linity, lab (mg/L as CaCO <sub>3</sub> )	Solids, sum of constit- uents, dis- solved (mg/L)	Solids, residue at 105 degrees Celsius, total (mg/L)
460653101571101	09-07-71	8.2	--	--	--	240	0	--	--	1720	--
460707101355201	11-05-71	8.2	--	7.5	--	210	0	--	--	570	--
460726101344601	11-05-71	8.0	--	7.0	--	61	0	--	--	717	--
460737101200701	08-31-72	7.4	--	17.5	--	360	170	--	--	914	--
460804102435401	06-08-71	7.5	--	--	--	540	68	--	--	813	--
460810102332801	08-07-70	8.0	--	12.0	--	680	300	--	--	1170	--
460825101344601	03-06-70	7.9	--	--	--	200	--	--	--	694	--
460830102405702	06-08-71	8.0	--	--	--	160	0	--	--	2020	--
460830103044503	06-24-76	7.6	--	8.0	4	230	0	--	466	1160	--
460845101512001	07-02-73	8.5	--	13.0	--	12	0	--	--	1370	--
460903102410701	06-08-71	7.5	--	8.5	--	590	150	--	--	1260	--
460908102282701	07-22-71	7.8	--	19.0	--	25	0	--	--	1250	--
460908102282702	10-14-71	8.4	--	9.5	--	50	0	--	--	1260	--
460908102282703	10-12-71	8.4	--	9.5	--	64	0	--	--	1010	--
460910102533301	06-21-72	8.6	--	10.5	--	110	0	--	--	1250	--
460910102533302	06-21-72	8.2	--	9.5	--	98	0	--	--	1160	--
460939102183901	06-13-72	8.2	--	11.5	--	40	0	--	--	989	--
460939102183902	06-14-72	8.3	--	10.5	--	32	0	--	--	1000	--
460939102183903	06-12-72	7.7	--	11.0	--	140	0	--	--	2510	--
460941102330001	07-07-71	7.8	--	--	--	840	430	--	--	1140	--
460944102033101	06-09-72	8.3	--	10.5	--	19	0	--	--	1200	--
460948102325101	07-07-71	8.1	--	9.0	--	180	0	--	--	753	--
460948102405701	06-11-71	7.5	--	--	--	520	76	--	--	825	--
460951102010001	08-07-70	8.3	--	13.0	--	17	0	--	--	1160	--
460954101240201	00-00-65	7.7	--	--	--	91	--	--	--	299	--
461015102433501	06-08-71	7.6	--	10.0	--	290	0	--	--	513	--
461033101200701	11-17-71	8.4	--	--	--	18	0	--	--	1040	--
461037102033101	09-22-71	8.5	--	1.0	--	19	0	--	--	1150	--
461040102575401	06-15-71	7.4	--	--	--	750	30	--	--	1480	--
461050103010001	05-16-74	9.3	--	8.0	10	100	0	--	896	2510	--
461059102283701	08-21-70	6.9	--	--	--	5900	5700	--	--	10000	--
461106102593701	06-15-71	8.5	--	9.5	--	52	0	--	--	954	--
461123102132201	08-07-70	7.9	--	11.0	--	54	0	--	--	2170	--
461129101562401	09-09-71	8.0	--	9.0	--	290	59	--	--	364	--
461145102385701	06-11-71	9.1	--	8.0	--	31	0	--	--	866	--
461148101565102	09-09-71	7.7	--	--	--	240	0	--	--	668	--
461151103033101	04-14-71	8.3	--	--	--	37	0	--	--	932	--
461158101262201	11-15-71	8.0	--	9.5	--	190	0	--	--	429	--
461159102532304	06-15-71	8.0	--	--	--	82	0	--	--	1060	--
461201101372501	11-05-71	8.5	--	--	--	21	0	--	--	1130	--
461207101373501	02-03-71	--	--	--	--	10	--	--	--	1140	--
461216101594301	00-00-59	8.0	--	--	--	470	--	--	--	684	--
461219101103202	08-25-71	7.9	--	7.0	--	270	0	--	--	561	--
461226103045401	10-11-71	8.7	--	11.0	--	170	0	--	--	1790	--
461226103045402	09-11-71	8.0	--	8.5	--	480	120	--	--	762	--

Site number	Date	Solids, residue at 180 degrees Celsius, dissolved (mg/L)	Solids, dissolved (tons per acre-foot)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium (percent)	Sodium adsorption ratio	Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO <sub>3</sub> )
460653101571101	09-07-71	1700	2.31	38	36	520	82	15	6.00	3.9	690
460707101355201	11-05-71	546	0.74	58	16	110	53	3	1.00	4.2	340
460726101344601	11-05-71	691	0.94	16	5.1	240	89	14	7.00	2.7	480
460737101200701	08-31-72	950	1.29	70	44	160	48	4	0.0	9.2	220
460804102435401	06-08-71	827	1.12	110	67	83	25	2	--	9.9	570
460810102332801	08-07-70	1270	1.73	130	84	130	28	2	--	9.3	460
460825101344601	03-06-70	818	--	--	--	240	--	--	--	--	--
460830102405702	06-08-71	2110	2.87	30	21	640	89	22	--	5.5	720
460830103044503	06-24-76	1130	1.54	42	30	310	73	9	--	14	570
460845101512001	07-02-73	1380	1.88	3.9	0.60	550	99	68	15.0	2.6	880
460903102410701	06-08-71	1270	1.73	110	75	200	42	4	--	11	540
460908102282701	07-22-71	1330	1.81	6.2	2.3	500	97	44	--	3.0	890
460908102282702	10-14-71	1340	1.82	8.0	7.3	520	96	32	20.0	1.6	1250
460908102282703	10-12-71	1020	1.39	20	3.4	410	93	22	15.0	2.2	970
460910102533301	06-21-72	1260	1.71	19	16	430	89	18	9.00	1.9	640
460910102533302	06-21-72	1240	1.69	21	11	390	89	17	7.00	2.7	570
460939102183901	06-13-72	1030	1.40	10	3.6	410	95	28	16.0	2.3	1030
460939102183902	06-14-72	1040	1.41	6.6	3.8	410	96	31	16.0	3.6	960
460939102183903	06-12-72	2510	3.41	28	17	770	92	28	5.00	6.4	500
460941102330001	07-07-71	1610	2.19	150	110	170	31	3	0.0	12	5
460944102033101	06-09-72	1250	1.70	5.0	1.6	490	98	49	19.0	2.3	1170
460948102325101	07-07-71	692	0.94	21	31	200	69	6	--	9.3	370
460948102405701	06-11-71	844	1.15	90	71	91	27	2	--	10	540
460951102010001	08-07-70	1120	1.52	3.4	2.1	470	98	50	--	2.2	1150
460954101240201	00-00-65	397	--	--	--	--	--	--	--	--	280
461015102433501	06-08-71	505	0.69	58	36	71	34	2	--	8.1	410
461033101200701	11-17-71	1040	1.41	4.7	1.6	420	98	43	14.0	1.2	830
461037102033101	09-22-71	1170	1.59	3.8	2.3	470	98	47	19.0	1.8	1130
461040102575401	06-15-71	1470	2.00	130	100	230	39	4	--	16	880
461050103010001	05-16-74	2650	3.60	32	5.4	880	94	38	--	11	730
461059102283701	08-21-70	10900	14.8	540	1100	830	24	5	--	9.6	120
461106102593701	06-15-71	935	1.27	7.9	7.9	380	94	23	14.0	2.6	860
461123102132201	08-07-70	2150	2.92	0.30	13	710	96	42	--	3.9	460
461129101562401	09-09-71	368	0.50	71	27	12	8	0.3	0.0	3.6	280
461145102385701	06-11-71	873	1.19	6.3	3.8	310	95	24	--	3.1	500
461148101565102	09-09-71	665	0.90	61	21	140	55	4	2.00	13	410
461151103033101	04-14-71	953	1.30	6.8	4.9	360	95	26	12.0	1.5	770
461158101262201	11-15-71	412	0.56	59	9.2	77	47	2	1.00	2.1	290
461159102532304	06-15-71	1040	1.41	17	9.6	340	89	16	--	5.8	440
461201101372501	11-05-71	1100	1.50	4.4	2.4	430	98	40	12.0	1.3	740
461207101373501	02-03-71	--	--	--	--	--	--	--	--	--	--
461216101594301	00-00-59	882	--	--	--	--	--	--	--	--	230
461219101103202	08-25-71	525	0.71	71	23	94	42	2	2.00	4.5	440
461226103045401	10-11-71	1700	2.31	18	30	600	88	20	14.0	3.3	950
461226103045402	09-11-71	753	1.02	92	61	79	26	2	0.0	7.5	440

Site number	Date	Car- bonate (mg/L as CO <sub>3</sub> )	Carbon dioxide, dis- solved (mg/L as CO <sub>2</sub> )	Sulfate, dis- solved (mg/L as SO <sub>4</sub> )	Chlo- ride, dis- solved (mg/L as Cl)	Fluoride, dis- solved (mg/L as F)	Silica, dis- solved (mg/L as SiO <sub>2</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as N)	Nitro- gen, nitrate, total (mg/L as NO <sub>3</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as NO <sub>3</sub> )	Boron, dis- solved (µg/L as B)
460653101571101	09-07-71	0	--	750	13	0.20	13	1.94	8.6	--	580
460707101355201	11-05-71	0	--	150	7.8	0.60	13	8.81	39	--	40
460726101344601	11-05-71	0	--	200	1.3	0.40	6.4	0.226	1.0	--	890
460737101200701	08-31-72	0	--	510	0.0	0.20	5.4	0.565	2.5	--	470
460804102435401	06-08-71	0	--	250	4.0	0.40	14	--	--	1.0	0
460810102332801	08-07-70	0	--	570	2.0	0.50	10	--	--	1.0	180
460825101344601	03-06-70	--	--	210	7.8	--	--	4.52	20	--	800
460830102405702	06-08-71	0	--	940	14	0.80	9.0	--	--	1.0	970
460830103044503	06-24-76	0	23	460	7.6	0.40	14	--	--	--	1000
460845101512001	07-02-73	21	--	10	330	3.4	9.8	0.226	1.0	--	2200
460903102410701	06-08-71	0	--	580	5.6	0.60	11	--	--	2.5	450
460908102282701	07-22-71	0	--	44	240	3.6	9.7	--	--	1.0	1600
460908102282702	10-14-71	26	--	9.5	65	3.4	10	--	--	2.0	1400
460908102282703	10-12-71	21	--	44	16	7.2	8.2	--	--	1.0	2300
460910102533301	06-21-72	24	--	430	1.1	5.5	9.6	--	--	2.0	680
460910102533302	06-21-72	0	--	450	4.6	3.4	8.3	--	--	0.0	540
460939102183901	06-13-72	0	--	23	20	5.3	9.0	--	--	1.0	1400
460939102183902	06-14-72	15	--	62	17	5.5	7.3	--	--	1.0	1100
460939102183903	06-12-72	0	--	1400	1.8	0.80	8.0	--	--	1.0	390
460941102330001	07-07-71	0	--	370	67	0.30	9.3	--	--	270	140
460944102033101	06-09-72	10	--	99	0.60	3.2	9.2	--	--	1.0	1400
460948102325101	07-07-71	0	--	300	2.7	0.10	5.0	--	--	1.6	210
460948102405701	06-11-71	0	--	280	4.6	0.30	14	--	--	1.2	450
460951102010001	08-07-70	12	--	42	50	2.7	10	--	--	1.0	1300
460954101240201	00-00-65	0	--	77	6.0	--	--	0.00	0.0	--	--
461015102433501	06-08-71	0	--	120	2.5	0.40	13	--	--	2.5	350
461033101200701	11-17-71	13	--	19	150	3.2	18	0.226	1.0	--	1700
461037102033101	09-22-71	25	--	33	50	2.1	9.4	--	--	1.0	1600
461040102575401	06-15-71	0	--	540	8.1	0.10	15	--	--	1.0	1900
461050103010001	05-16-74	180	0.9	1000	11	1.2	28	--	--	--	--
461059102283701	08-21-70	0	--	7500	20	0.60	19	--	--	84	4200
461106102593701	06-15-71	18	--	85	17	5.9	4.9	--	--	0.30	840
461123102132201	08-07-70	0	--	1200	6.6	1.4	7.7	--	--	2.5	640
461129101562401	09-09-71	0	--	61	5.4	0.10	16	7.00	31	--	40
461145102385701	06-11-71	44	--	240	3.7	0.70	1.2	--	--	1.0	450
461148101565102	09-09-71	0	--	210	0.90	0.10	11	0.226	1.0	--	350
461151103033101	04-14-71	12	--	150	6.3	3.4	9.2	--	--	0.10	1200
461158101262201	11-15-71	0	4.6	120	0.30	0.60	16	0.230	1.0	1.0	40
461159102532304	06-15-71	0	--	460	6.3	1.0	7.6	--	--	0.0	1800
461201101372501	11-05-71	14	--	290	13	2.3	9.9	0.565	2.5	--	1600
461207101373501	02-03-71	--	--	--	--	--	--	--	--	--	--
461216101594301	00-00-59	0	--	350	24	--	--	21.5	95	--	--
461219101103202	08-25-71	0	--	130	1.8	0.60	20	0.226	1.0	--	440
461226103045401	10-11-71	41	--	600	15	8.7	9.1	--	--	1.0	1100
461226103045402	09-11-71	0	--	290	3.2	0.40	15	--	--	5.0	0

Site number	Date	Iron, dis- solved (µg/L as Fe)	Lead, dis- solved (µg/L as Pb)	Lithium, dis- solved (µg/L as Li)	Manga- nese, dis- solved (µg/L as Mn)	Mercury, dis- solved (µg/L as Hg)	Molyb- denum, dis- solved (µg/L as Mo)	Selen- ium, dis- solved (µg/L as Se)	Stron- tium, dis- solved (µg/L as Sr)	Vana- dium, dis- solved (µg/L as V)	Zinc, dis- solved (µg/L as Zn)
460653101571101	09-07-71	600	--	--	50	--	--	--	--	--	--
460707101355201	11-05-71	0	--	--	0	--	--	--	--	--	--
460726101344601	11-05-71	0	--	--	60	--	--	--	--	--	--
460737101200701	08-31-72	340	--	--	50	--	--	--	--	--	--
460804102435401	06-08-71	1000	--	--	60	--	--	--	--	--	--
460810102332801	08-07-70	180	--	--	470	--	--	--	--	--	--
460825101344601	03-06-70	650	--	--	--	--	--	--	--	--	--
460830102405702	06-08-71	0	--	--	70	--	--	--	--	--	--
460830103044503	06-24-76	--	--	--	--	--	--	--	--	--	--
460845101512001	07-02-73	980	--	--	40	--	--	--	--	--	--
460903102410701	06-08-71	180	--	--	130	--	--	--	--	--	--
460908102282701	07-22-71	260	--	--	50	--	--	--	--	--	--
460908102282702	10-14-71	680	--	--	10	--	--	--	--	--	--
460908102282703	10-12-71	0	--	--	20	--	--	--	--	--	--
460910102533301	06-21-72	40	--	--	20	--	--	--	--	--	--
460910102533302	06-21-72	0	--	--	20	--	--	--	--	--	--
460939102183901	06-13-72	40	--	--	30	--	--	--	--	--	--
460939102183902	06-14-72	440	--	--	40	--	--	--	--	--	--
460939102183903	06-12-72	0	--	--	40	--	--	--	--	--	--
460941102330001	07-07-71	0	--	--	30	--	--	--	--	--	--
460944102033101	06-09-72	80	--	--	30	--	--	--	--	--	--
460948102325101	07-07-71	0	--	--	10	--	--	--	--	--	--
460948102405701	06-11-71	0	--	--	40	--	--	--	--	--	--
460951102010001	08-07-70	160	--	--	20	--	--	--	--	--	--
460954101240201	00-00-65	1000	--	--	--	--	--	--	--	--	--
461015102433501	06-08-71	180	--	--	40	--	--	--	--	--	--
461033101200701	11-17-71	280	--	--	0	--	--	--	--	--	--
461037102033101	09-22-71	320	--	--	10	--	--	--	--	--	--
461040102575401	06-15-71	--	--	--	--	--	--	--	--	--	--
461050103010001	05-16-74	30	--	--	20	--	--	--	--	--	--
461059102283701	08-21-70	--	--	--	--	--	--	--	--	--	--
461106102593701	06-15-71	530	--	--	20	--	--	--	--	--	--
461123102132201	08-07-70	200	--	--	20	--	--	--	--	--	--
461129101562401	09-09-71	0	--	--	40	--	--	--	--	--	--
461145102385701	06-11-71	580	--	--	20	--	--	--	--	--	--
461148101565102	09-09-71	360	--	--	10	--	--	--	--	--	--
461151103033101	04-14-71	1700	--	--	30	--	--	--	--	--	--
461158101262201	11-15-71	680	--	--	30	--	--	--	--	--	--
461159102532304	06-15-71	70	--	--	80	--	--	--	--	--	--
461201101372501	11-05-71	100	--	--	40	--	--	--	--	--	--
461207101373501	02-03-71	--	--	--	--	--	--	--	--	--	--
461216101594301	00-00-59	480	--	--	--	--	--	--	--	--	--
461219101103202	08-25-71	3300	--	--	20	--	--	--	--	--	--
461226103045401	10-11-71	2500	--	--	20	--	--	--	--	--	--
461226103045402	09-11-71	500	--	--	80	--	--	--	--	--	--

Site number	Local identifier	County code	Hydrologic unit	Geologic unit	Date	Depth below land surface, water level (feet)	Depth of well, total (feet)	Altitude of land surface, datum (feet)	Specific conductance, field (μS/cm)	Specific conductance, lab (μS/cm)
461230101300501	131-087-6DDB	037	10130204	125CNBL	11-12-69	--	103	--	1310	--
461242102172602	132-093-34DAA2	041	10130205	--	08-11-82	--	111	--	1390	1340
461257103051001	131-099-32ABB	011	10130205	125TRVL	05-01-74	--	39	2755	2720	--
461309102103602	132-092-34BAA2	041	10130205	--	08-11-82	--	58	--	1200	1190
461313102283001	132-094-29CCC	041	10130205	125TGRV	05-13-69	--	204	2604	1490	--
461315102034501	132-091-28DDD	041	10130205	211FXHL	08-30-68	--	1050	2469	2260	--
461315102113201	132-092-28DCD1	041	10130204	125SBTR	12-03-45	--	60	2462	3700	--
461338101145701	132-088-32ABA	037	10130206	125CNBL	03-20-69	--	160	--	1530	--
461344101072901	132-083-30BCB	037	10130206	112SLDS	11-16-71	--	212	1814	1530	--
461347102194602	132-093-28BCB2	041	10130205	125TGRV	04-05-69	--	162	2514	1490	--
461349103004901	131-099-25BBB1	011	10130205	125LDLW	05-09-74	--	417	--	1640	--
461349103004902	131-099-25BBB2	011	10130205	125TRVL	04-23-74	--	200	--	1280	--
461402102393402	132-096-26BBA2	001	10130205	125TRVL	06-11-71	--	115	--	1540	--
461404101071101	132-083-19CDC	037	10130206	112SLDS	12-03-71	--	104	--	1670	--
461405101484301	132-089-22CCC1	037	10130204	125TGRV	00-00-68	--	112	--	1270	--
461411102541101	132-098-23CDD	001	10130205	125TRVL	08-06-70	--	150	--	2340	--
461408102111302	132-092-21DDD2	041	10130205	125TGRV	06-13-69	--	70	2460	924	--
461416101401701	132-088-22DAC	037	10130204	125CNBL	07-11-49	--	148	--	4680	--
461438101272901	132-086-21BCB	037	10130204	125TGRV	11-15-71	--	--	--	1180	--
461439102183102	132-093-22BCB2	041	10130205	--	08-10-82	--	78	--	1600	1570
461448102345401	132-095-20AAD	001	10130205	125TRVL	07-07-71	--	210	2686	2830	--
461448102393401	132-096-23BBB	001	10130205	125TRVL	06-11-71	--	158	--	404	--
461448102402101	132-096-22ABC1	001	10130205	125LDLW	06-20-72	--	377	2585	2040	--
461448102402102	132-096-22ABC2	001	10130205	125TRVL	06-19-72	--	188	2585	1550	--
461452102165802	132-093-23BAB2	041	10130205	125TGRV	08-03-67	--	82	2500	4330	--
461454102072901	132-092-24AAA	041	10130205	125TGRV	05-08-69	--	174	2559	1610	--
461455102464401	132-097-23BAA	001	10130205	125TRVL	08-06-70	--	70	--	994	--
461459102161201	132-093-14DDD	041	10130205	125TGRV	11-13-56	--	180	2488	--	--
461514101112301	132-084-16DAA	037	10130206	211FXHL	07-11-73	--	396	1973	1770	--
461515102482601	132-097-15CBC	001	10130205	125TRVL	08-06-70	--	100	--	982	--
461528102495001	132-097-17ADD	001	10130205	125TRVL	12-27-76	--	73	--	1310	--
461532102110401	132-092-15BCB	041	10130205	125TGRV	11-23-54	--	125	2528	876	--
461533103054801	131-099-17BBB	001	10130205	125HRMN	05-15-74	--	164	--	1670	--
461536103083901	132-100-14ADB	011	10130205	125TRVL	08-14-70	--	51	--	2280	--
461542101535901	132-090-14AAB1	037	10130204	125CNBL	07-02-73	--	314	2340	1890	--
461543102012501	132-091-14AAB	041	10130204	125TGRV	08-08-67	--	202	2439	1460	--
461543102260001	132-094-15BBB1	041	10130205	125TGRV	06-17-69	--	143	2576	569	--
461543102260002	132-094-15BBB2	041	10130205	125SNLB	06-16-69	--	40	2576	480	--
461548101083501	132-084-12CCD	037	10130206	112SLDS	07-26-72	--	216	1841	1610	--
461552103171401	132-101-10DDD	011	10130205	125TRVL	07-12-72	--	264	2925	1750	--
461614102515201	132-097-7CAB1	001	10130205	211HCFH	07-29-71	--	1080	2665	1790	--
461614102515202	132-097-7CAB2	001	10130205	125LHCK	10-28-71	--	590	2665	2110	--
461614102515204	132-097-7CAB4	001	10130205	125LDLW	06-20-72	--	335	2665	2050	--
461637101145701	132-084-6CCC	037	10130206	125CNBL	11-11-71	--	170	2049	2390	--
461638102111301	132-092-9AAA	041	10130205	125TGRV	08-11-67	--	225	2569	1520	--



Sits number	Date	pH, field (stand-ard units)	pH, lab (stand-ard units)	Temper-ature, water (degrees Celsius)	Color (plati-num cobalt scale)	Hard-ness, total (mg/L as CaCO <sub>3</sub> )	Noncar-bonate hard-ness, total (mg/L as CaCO <sub>3</sub> )	Alka-linity, field (mg/L as CaCO <sub>3</sub> )	Alka-linity, lab (mg/L as CaCO <sub>3</sub> )	Solids, sum of consti-tuents, dis-solved (mg/L)	Solids, residue at 105 degrees Celsius, total (mg/L)
461230101300501	11-12-69	7.7	--	--	--	630	--	--	--	796	--
461242102172602	08-11-82	8.2	7.5	12.0	--	24	--	--	479	900	--
461257103051001	05-01-74	9.1	--	7.0	700	140	0	--	671	1840	--
461309102103602	08-11-82	7.1	7.8	11.5	--	560	--	--	220	800	--
461313102283001	05-13-69	8.5	--	10.5	200	26	0	--	--	955	--
461315102034501	08-30-68	8.4	--	--	--	17	0	--	--	1340	--
461315102113201	12-03-45	--	--	--	--	49	--	--	--	2420	--
461338101145701	03-20-69	8.4	--	--	--	12	--	--	--	884	--
461344101072901	11-16-71	8.2	--	8.0	--	290	0	--	--	997	--
461347102194602	04-05-69	8.2	--	--	300	20	0	--	--	988	--
461349103004901	05-09-74	--	--	19.0	--	36	0	--	869	1040	--
461349103004902	04-23-74	8.5	--	9.5	2300	16	0	--	577	853	--
461402102393402	06-11-71	8.5	--	8.0	--	42	0	--	--	978	--
461404101071101	12-03-71	8.1	--	--	--	27	0	--	--	1080	--
461405101484301	00-00-68	7.4	--	--	--	460	--	--	--	676	--
461411102541101	08-06-70	8.2	--	14.0	--	97	0	560	--	1584	--
461408102111302	06-13-69	7.9	--	7.5	10	240	0	--	--	616	--
461416101401701	07-11-49	8.0	--	--	--	270	--	--	--	--	--
461438101272901	11-15-71	7.7	--	9.5	--	370	33	--	--	781	--
461439102183102	08-10-82	7.2	7.6	11.0	--	800	--	--	277	1180	--
461448102345401	07-07-71	8.0	--	--	--	90	0	--	--	2010	--
461448102393401	06-11-71	8.2	--	10.0	--	230	9	--	--	233	--
461448102402101	06-20-72	8.4	--	9.5	--	16	0	--	--	1300	--
461448102402102	06-19-72	8.3	--	9.0	--	71	0	--	--	1000	--
461452102165802	08-03-67	8.1	--	10.0	--	810	300	--	--	3470	--
461454102072901	05-08-69	8.1	--	7.0	100	35	0	--	--	1060	--
461455102464401	08-06-70	7.9	--	12.0	--	440	70	--	--	638	--
461459102161201	11-13-56	7.5	--	--	--	1300	980	--	--	3550	--
461514101112301	07-11-73	8.2	--	10.0	--	13	0	--	--	1070	--
461515102482601	08-06-70	8.1	--	13.0	--	370	0	--	--	604	--
461528102495001	12-27-76	8.2	--	--	--	420	53	--	--	614	--
461532102110401	11-23-54	7.9	--	--	--	340	47	--	--	613	--
461533103054801	05-15-74	8.8	--	8.0	200	63	0	--	560	1040	--
461536103083901	08-14-70	8.3	--	9.0	--	130	0	--	--	1550	--
461542101535901	07-02-73	8.5	--	10.0	--	23	0	--	--	1200	--
461543102012501	08-08-67	8.3	--	9.0	--	35	0	--	--	966	--
461543102260001	06-17-69	7.9	--	8.5	--	160	0	--	--	358	--
461543102260002	06-16-69	7.7	--	6.5	100	220	19	--	--	298	--
461548101083501	07-26-72	8.1	--	8.0	--	200	0	--	--	1070	--
461552103171401	07-12-72	8.3	--	10.0	--	51	0	--	--	1210	--
461614102515201	07-29-71	8.0	--	20.0	--	19	0	--	--	1140	--
461614102515202	10-28-71	8.4	--	9.5	--	36	0	--	--	1380	--
461614102515204	06-20-72	8.7	--	11.0	--	9	0	--	--	1290	--
461637101145701	11-11-71	8.1	--	9.0	--	100	0	--	--	1620	--
461638102111301	08-11-67	8.3	--	9.0	--	160	0	--	--	1020	--

Site number	Date	Solids, residue at 180 degrees Celsius, dissolved (mg/L)	Solids, dissolved (tons per acre-foot)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium (percent)	Sodium adsorption ratio	Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO <sub>3</sub> )
461230101300501	11-12-69	939	--	--	--	--	--	--	--	--	--
461242102172602	08-11-82	898	1.22	5.5	2.4	340	96	30	--	3.8	--
461257103051001	05-01-74	1910	2.60	31	14	600	90	22	--	9.0	510
461309102103602	08-11-82	967	1.32	120	63	65	20	1	--	5.0	--
461313102283001	05-13-69	965	1.31	4.8	3.4	350	96	30	--	2.4	610
461315102034501	08-30-68	1310	1.78	4.3	1.6	550	98	58	--	2.6	1010
461315102113201	12-03-45	2380	--	--	--	--	--	--	--	--	380
461338101145701	03-20-69	972	--	3.4	0.90	370	--	47	--	--	--
461344101072901	11-16-71	1050	1.43	110	4.4	270	67	7	9.00	4.4	880
461347102194602	04-05-69	955	1.30	5.6	1.5	340	97	33	--	2.0	530
461349103004901	05-09-74	1150	1.56	5.1	5.7	420	95	30	--	5.4	970
461349103004902	04-23-74	926	1.26	4.1	1.3	320	97	35	--	2.1	650
461402102393402	06-11-71	935	1.27	7.2	5.8	380	95	26	12.0	2.2	780
461404101071101	12-03-71	1060	1.44	7.6	1.9	410	97	34	13.0	1.6	820
461405101484301	00-00-68	857	--	--	--	110	--	--	--	--	310
461411102541101	08-06-70	1640	2.23	1.0	23	527	92	23	--	4.9	683
461408102111302	06-13-69	647	0.88	58	24	120	51	3	--	4.7	350
461416101401701	07-11-49	2840	--	61	28	810	--	22	--	--	570
461438101272901	11-15-71	790	1.07	92	34	120	41	3	0.0	4.4	410
461439102183102	08-10-82	1260	1.71	180	84	75	17	1	--	6.9	--
461448102345401	07-07-71	2050	2.79	18	11	650	94	30	--	4.9	610
461448102393401	06-11-71	249	0.34	44	28	5.0	5	0.1	--	2.1	260
461448102402101	06-20-72	1270	1.73	2.5	2.4	540	98	58	23.0	2.7	1350
461448102402102	06-19-72	1060	1.44	12	10	390	92	20	13.0	2.6	870
461452102165802	08-03-67	3520	4.79	170	94	820	69	13	--	9.1	610
461454102072901	05-08-69	1040	1.41	9.8	2.6	380	95	28	--	7.1	630
461455102464401	08-06-70	650	0.88	100	46	57	22	1	--	5.6	450
461459102161201	11-13-56	2710	--	--	--	--	--	--	--	--	420
461514101112301	07-11-73	1120	1.52	3.6	1.0	430	98	52	14.0	3.8	870
461515102482601	08-06-70	620	0.84	78	42	86	33	2	--	5.1	460
461528102495001	12-27-76	587	0.80	100	41	55	22	1	--	3.0	450
461532102110401	11-23-54	493	--	--	--	--	39	2	--	--	350
461533103054801	05-15-74	1110	1.51	14	6.7	360	92	20	--	5.9	620
461536103083901	08-14-70	1500	2.04	32	11	500	89	19	--	4.9	630
461542101535901	07-02-73	1230	1.67	5.0	2.6	470	97	42	17.0	3.6	1020
461543102012501	08-08-67	951	1.29	10	2.4	340	95	25	--	3.8	540
461543102260001	06-17-69	321	0.44	36	16	74	50	3	--	5.6	370
461543102260002	06-16-69	300	0.41	52	22	21	17	0.6	--	3.7	240
461548101083501	07-26-72	1120	1.52	47	20	320	77	10	9.00	5.4	770
461552103171401	07-12-72	1630	2.22	9.0	6.9	430	94	26	10.0	5.0	630
461614102515201	07-29-71	1110	1.51	5.2	1.5	450	98	45	14.0	1.7	880
461614102515202	10-28-71	1430	1.94	8.4	3.6	550	97	40	21.0	3.4	1250
461614102515204	06-20-72	1310	1.78	2.2	0.90	540	99	77	24.0	2.1	1340
461637101145701	11-11-71	1570	2.14	11	18	540	92	23	8.00	1.4	630
461638102111301	08-11-67	1010	1.37	39	15	300	79	10	--	11	520

Site number	Date	Car- bonate (mg/L as CO <sub>3</sub> )	Carbon dioxide, dis- solved (mg/L as CO <sub>2</sub> )	Sulfate, dis- solved (mg/L as SO <sub>4</sub> )	Chlo- ride, dis- solved (mg/L as Cl)	Fluoride, dis- solved (mg/L as F)	Silica, dis- solved (mg/L as SiO <sub>2</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as N)	Nitro- gen, nitrate, total (mg/L as NO <sub>3</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as NO <sub>3</sub> )	Boron, dis- solved (µg/L as B)
461230101300501	11-12-69	--	--	400	10	--	--	0.00	0.0	--	--
461242102172602	08-11-82	--	--	240	10	0.60	9.3	--	--	--	760
461257103051001	05-01-74	150	1.0	770	13	2.0	--	--	--	--	--
461309102103602	08-11-82	--	--	380	20	0.30	14	--	--	--	230
461313102283001	05-13-69	13	3.2	270	0.0	1.1	8.6	0.560	--	2.5	0
461315102034501	08-30-68	18	6.7	5.7	240	3.7	9.3	0.230	--	1.0	3
461315102113201	12-03-45	20	--	1300	0.0	--	--	--	--	--	--
461338101145701	03-20-69	--	--	330	14	--	--	0.00	0.0	--	--
461344101072901	11-16-71	0	--	130	5.1	3.0	26	0.226	1.0	--	0
461347102194602	04-05-69	0	5.4	350	13	1.5	8.4	0.00	--	0.0	1
461349103004901	05-09-74	45	--	63	6.3	6.5	3.3	0.230	--	1.0	1300
461349103004902	04-23-74	28	3.3	140	24	4.2	9.3	--	--	--	--
461402102393402	06-11-71	18	--	160	15	4.0	6.5	--	--	0.20	750
461404101071101	12-03-71	0	--	230	1.5	0.70	20	0.226	1.0	--	1100
461405101484301	00-00-68	0	--	360	9.0	--	--	0.00	0.0	--	--
461411102541101	08-06-70	0	6.9	678	2.5	1.3	6.1	0.00	--	0.00	460
461408102111302	06-13-69	0	7.0	220	1.6	0.10	13	0.560	--	2.5	0
461416101401701	07-11-49	0	--	1300	32	0.20	--	1.58	7.0	--	--
461438101272901	11-15-71	0	13	310	0.0	0.40	16	0.450	2.0	2.0	530
461439102183102	08-10-82	--	--	650	6.3	0.10	12	--	--	--	320
461448102345401	07-07-71	0	--	1000	5.5	0.20	7.6	--	--	2.5	350
461448102393401	06-11-71	0	--	18	1.4	0.30	4.3	--	--	1.7	520
461448102402101	06-20-72	23	--	34	17	4.0	9.2	--	--	1.0	890
461448102402102	06-19-72	11	--	130	12	4.6	5.9	--	--	1.0	460
461452102165802	08-03-67	0	7.8	2000	10	0.50	7.7	2.70	--	12	1
461454102072901	05-08-69	0	8.0	330	1.0	0.0	8.3	0.230	--	1.0	1
461455102464401	08-06-70	0	--	190	5.3	0.50	11	--	--	1.0	120
461459102161201	11-13-56	0	21	1800	54	--	--	--	--	--	--
461514101112301	07-11-73	0	8.8	17	170	4.2	15	0.050	0.20	0.20	1600
461515102482601	08-06-70	0	--	140	9.2	0.50	10	--	--	11	250
461528102495001	12-27-76	0	4.5	160	13	0.10	10	2.90	--	13	<20
461532102110401	11-23-54	--	7.1	150	0.0	--	--	--	--	--	1
461533103054801	05-15-74	31	1.7	290	11	2.9	13	--	--	--	--
461536103083901	08-14-70	6	--	670	3.6	2.3	7.5	--	--	1.0	300
461542101535901	07-02-73	19	--	130	52	1.7	9.1	0.226	1.0	--	1400
461543102012501	08-08-67	7	4.5	320	4.9	0.40	8.1	0.00	--	0.0	0
461543102260001	06-17-69	0	7.5	28	0.0	0.20	13	0.560	--	2.5	0
461543102260002	06-16-69	0	7.8	49	1.5	0.40	12	2.50	--	11	0
461548101083501	07-26-72	0	--	270	0.60	0.60	24	0.226	1.0	--	1400
461552103171401	07-12-72	7	--	430	9.2	2.5	8.0	--	--	6.1	1100
461614102515201	07-29-71	0	--	170	54	5.3	12	--	--	1.0	1600
461614102515202	10-28-71	33	--	140	15	6.5	7.7	--	--	1.0	1600
461614102515204	06-20-72	53	--	14	7.6	6.1	7.7	--	--	1.0	1300
461637101145701	11-11-71	0	--	720	0.0	1.2	16	0.226	1.0	--	2700
461638102111301	08-11-67	5	4.3	370	4.3	0.10	10	0.680	--	3.0	1

Site number	Date	Iron, dis- solved (µg/L as Fe)	Lead, dis- solved (µg/L as Pb)	Lithium, dis- solved (µg/L as Li)	Manga- nese, dis- solved (µg/L as Mn)	Mercury, dis- solved (µg/L as Hg)	Molyb- denum, dis- solved (µg/L as Mo)	Selen- ium, dis- solved (µg/L as Se)	Stron- tium, dis- solved (µg/L as Sr)	Vana- dium, dis- solved (µg/L as V)	Zinc, dis- solved (µg/L as Zn)
461230101300501	11-12-69	360	--	--	--	--	--	--	--	--	--
461242102172602	08-11-82	120	--	--	28	--	--	<1	--	--	--
461257103051001	05-01-74	170	--	--	40	--	--	--	--	--	--
461309102103602	08-11-82	59	--	--	200	--	--	1	--	--	--
461313102283001	05-13-69	200	--	--	--	--	--	--	--	--	--
461315102034501	08-30-68	300	--	--	--	--	--	--	--	--	--
461315102113201	12-03-45	--	--	--	--	--	--	--	--	--	--
461338101145701	03-20-69	680	--	--	--	--	--	--	--	--	--
461344101072901	11-16-71	13000	--	--	30	--	--	--	--	--	--
461347102194602	04-05-69	400	--	--	--	--	--	--	--	--	--
461349103004901	05-09-74	40	--	--	400	--	--	--	--	--	--
461349103004902	04-23-74	690	--	--	50	--	--	--	--	--	--
461402102393402	06-11-71	200	--	--	20	--	--	--	--	--	--
461404101071101	12-03-71	280	--	--	90	--	--	--	--	--	--
461405101484301	00-00-68	6600	--	--	--	--	--	--	--	--	--
461411102541101	08-06-70	4100	--	--	60	--	--	--	--	--	--
461408102111302	06-13-69	840	--	--	--	--	--	--	--	--	--
461416101401701	07-11-49	1500	--	--	--	--	--	--	--	--	--
461438101272901	11-15-71	0	--	--	0	--	--	--	--	--	--
461439102183102	08-10-82	660	--	--	430	--	--	<1	--	--	--
461448102345401	07-07-71	30	--	--	20	--	--	--	--	--	--
461448102393401	06-11-71	0	--	--	10	--	--	--	--	--	--
461448102402101	06-20-72	300	--	--	10	--	--	--	--	--	--
461448102402102	06-19-72	90	--	--	10	--	--	--	--	--	--
461452102165802	08-03-67	80	--	--	--	--	--	--	--	--	--
461454102072901	05-08-69	12000	--	--	--	--	--	--	--	--	--
461455102464401	08-06-70	400	--	--	40	--	--	--	--	--	--
461459102161201	11-13-56	0	--	--	--	--	--	--	--	--	--
461514101112301	07-11-73	1200	--	--	<10	--	--	--	--	--	--
461515102482601	08-06-70	60	--	--	0	--	--	--	--	--	--
461528102495001	12-27-76	60	--	--	40	--	--	--	--	--	--
461532102110401	11-23-54	420	--	--	--	--	--	--	--	--	--
461533103054801	05-15-74	60	--	--	<10	--	--	--	--	--	--
461536103083901	08-14-70	180	--	--	20	--	--	--	--	--	--
461542101535901	07-02-73	600	--	--	80	--	--	--	--	--	--
461543102012501	08-08-67	130	--	--	--	--	--	--	--	--	--
461543102260001	06-17-69	720	--	--	--	--	--	--	--	--	--
461543102260002	06-16-69	5000	--	--	--	--	--	--	--	--	--
461548101083501	07-26-72	580	--	--	130	--	--	--	--	--	--
461552103171401	07-12-72	1100	--	--	30	--	--	--	--	--	--
461614102515201	07-29-71	2800	--	--	30	--	--	--	--	--	--
461614102515202	10-28-71	0	--	--	40	--	--	--	--	--	--
461614102515204	06-20-72	620	--	--	10	--	--	--	--	--	--
461637101145701	11-11-71	4800	--	--	110	--	--	--	--	--	--
461638102111301	08-11-67	360	--	--	--	--	--	--	--	--	--

Site number	Local identifier	County code	Hydrologic unit	Geologic unit	Date	Depth below land surface, water level (feet)	Depth of well, total (feet)	Altitude of land surface, datum (feet)	Specific conductance, field (μS/cm)	Specific conductance, lab (μS/cm)
461700102532603	133-097-32DCC3	041	10130204	125TGRV	08-18-67	--	95	2699	2310	--
461716101014501	133-082-31DDA	059	10130206	211FXHL	06-27-72	--	280	--	2150	--
461722101063602	133-083-34CBC2	037	10130206	211FXHL	12-01-71	--	310	--	1560	--
461727103012701	133-098-32BCA	087	10130205	125TRVL	07-01-75	--	106	--	2800	--
461735101533602	133-089-32BDA2	037	10130204	125TGRV	09-15-71	--	146	--	2360	--
461738103085801	133-099-32BBA	087	10130205	211HCFH	08-28-74	--	1252	2871	1830	--
461748101010701	133-082-32BAD	059	10130206	211FXHL	06-27-72	--	200	--	2270	--
461749101511503	133-089-34BAB3	037	10130204	125TGRV	04-01-70	--	183	--	1620	--
461756102062601	133-091-27CCD	041	10130204	125TGRV	05-01-48	--	90	2410	2880	--
461801101010701	133-082-29CDD1	059	10130206	211FXHL	06-27-72	--	280	--	2240	--
461801101070401	133-083-28DCD	037	10130206	112SLDS	11-13-71	--	165	1872	1850	--
461815102141202	133-092-28DAA2	041	10130204	125SBTR	07-23-59	--	60	--	1140	--
461816102441602	133-096-28DAA2	041	10130205	125TGRV	03-11-69	--	71	2696	2310	--
461820101131101	133-084-27DAB	037	10130206	211HLCK	07-24-61	--	264	--	2720	--
461822102190901	133-093-26ADD	041	10130204	--	08-17-82	--	462	--	760	755
461822102255101	133-094-25ACC	041	10130204	125TGRV	06-17-69	--	70	2535	1820	--
461833102551401	133-097-30BBC	041	10130205	125TGRV	08-08-69	--	60	2760	1550	--
461836102341302	133-095-26AAD2	041	10130204	125TGRV	03-11-69	--	161	2659	1380	--
461841102132501	133-092-27ABC	041	10130204	125TGRV	06-03-69	--	243	2540	2560	--
461841102190901	133-093-26AAA	041	10130204	125TGRV	12-01-67	--	128	2505	1390	--
461842102341301	133-095-26AAA	041	10130204	--	08-18-82	--	161	--	2350	2430
461845103015601	133-098-19DDB	087	10130205	125TRVL	07-01-75	--	60	--	2700	--
461847101065501	133-083-28AAB	037	10130206	112SLDS	11-13-71	--	98	1867	2210	--
461849102391601	133-095-19DDD	041	10130204	125TGRV	05-14-69	--	214	2648	1350	--
461852103013701	133-098-20CBC	087	10130205	125TRVL	07-01-75	--	91	--	1870	--
461901102090501	133-091-20CBC	041	10130204	125TGRV	09-25-47	--	124	--	1900	--
461910103080201	133-099-20ADA	087	10130205	125TRVL	06-04-75	--	210	--	2290	--
461930102551801	133-097-19BBB	041	10130205	125TGRV	03-31-69	--	135	2765	2330	--
461931103014601	133-098-18DDD	087	10130205	125TRVL	07-01-75	--	95	--	2600	--
461934102034701	133-091-24BAB	041	10130204	125TGRV	07-25-67	--	201	2352	2110	--
461939101071301	133-083-21ABB	037	10130206	112SLDS	11-12-71	--	84	1857	2290	--
462012100581802	133-082-15ACD2	059	10130206	211FXHL	06-28-72	--	260	--	2730	--
462016101432901	133-088-15ACB	037	10130204	125CNBL	04-09-69	--	210	--	1880	--
462021102564301	133-098-14AAA	087	10130205	125LHCK	07-22-75	--	860	2790	2200	--
462032102253201	133-094-12DDC	041	10130204	125TGRV	08-25-67	--	458	2470	2000	--
462033102341302	133-095-11DDD2	041	10130204	--	03-11-69	--	192	2620	2360	--
462038100402801	133-080-12DDD	085	10130206	112BGFV	08-11-71	--	134	1730	2210	--
462038102491402	133-097-11DDA2	041	10130205	125TGRV	05-01-68	--	102	2707	1310	--
462041100391701	133-079-7DD	085	10130206	211FXHL	00-00-52	--	190	--	1640	--
462103101180301	133-085-12AAD	037	10130206	211FXHL	11-16-72	--	522	2020	2270	--
462110101180300	--	037	10130206	211FXHL	04-24-73	--	522	--	2240	--
462110102512502	133-097-10BBD2	041	10130205	125TGRV	12-24-68	--	75	2687	910	--
462111101030001	133-083-12ADA1	037	10130206	211FXHL	05-17-73	--	230	1764	2170	--
462111101030002	133-083-12ADA2	037	--	112SLDS	05-17-73	--	84	1764	1590	--
462116101180301	133-085-12AAD	037	10130206	--	04-24-73	--	522	--	2300	--

Site number	Date	pH, field (stand- ard units)	pH, lab (stand- ard units)	Temper- ature, water (degrees Celsius)	Color (plati- num cobalt scale)	Hard- ness, total (mg/L as CaCO <sub>3</sub> )	Noncar- bonate hard- ness, total (mg/L as CaCO <sub>3</sub> )	Alka- linity, field (mg/L as CaCO <sub>3</sub> )	Alka- linity, lab (mg/L as CaCO <sub>3</sub> )	Solids, sum of consti- tuents, dis- solved (mg/L)	Solids, residue at 105 degrees Celsius, total (mg/L)
461700102532603	08-18-67	7.9	--	10.0	--	750	450	--	--	1780	--
461716101014501	06-27-72	8.2	--	10.0	--	17	0	--	--	1380	--
461722101063602	12-01-71	8.0	--	--	--	290	0	--	--	1010	--
461727103012701	07-01-75	8.2	--	11.0	--	80	0	--	--	1990	--
461735101533602	09-15-71	7.7	--	--	--	570	140	--	--	1710	--
461738103085801	08-28-74	8.7	--	--	--	16	0	--	--	1160	--
461748101010701	06-27-72	8.2	--	10.0	--	17	0	--	--	1450	--
461749101511503	04-01-70	9.1	--	--	--	10	--	--	--	946	--
461756102062601	05-01-48	--	--	9.0	--	130	--	--	--	1880	--
461801101010701	06-27-72	8.3	--	10.5	--	26	0	--	--	1470	--
461801101070401	11-13-71	7.9	--	8.0	--	660	61	--	--	1290	--
461815102141202	07-23-59	7.5	--	--	200	430	--	--	--	630	--
461816102441602	03-11-69	7.6	--	8.5	20	1000	600	--	--	1670	--
461820101131101	07-24-61	--	--	--	--	17	--	--	--	--	--
461822102190901	08-17-82	7.4	7.9	17.0	--	340	--	--	257	427	--
461822102255101	06-17-69	7.8	--	8.5	--	640	290	--	--	1340	--
461833102551401	08-08-69	--	--	--	--	800	--	--	--	1240	--
461836102341302	03-11-69	8.2	--	8.5	200	21	0	--	--	860	--
461841102132501	06-03-69	7.9	--	15.0	--	37	0	--	--	1750	--
461841102190901	12-01-67	7.9	--	8.5	700	66	0	--	--	905	--
461842102341301	08-18-82	7.6	8.0	17.0	--	110	--	--	781	1620	--
461845103015601	07-01-75	8.0	--	10.0	--	160	0	--	--	1890	--
461847101065501	11-13-71	7.9	--	8.0	--	360	0	--	--	1560	--
461849102391601	05-14-69	8.4	--	10.5	2300	56	0	--	--	863	--
461852103013701	07-01-75	8.7	--	14.0	--	6	0	--	--	1160	--
461901102090501	09-25-47	--	--	--	--	69	--	--	--	1230	--
461910103080201	06-04-75	8.3	--	10.5	--	28	0	--	--	1500	--
461930102551801	03-31-69	--	--	--	--	300	--	--	--	1870	--
461931103014601	07-01-75	6.9	--	7.0	--	1200	860	--	--	1890	--
461934102034701	07-25-67	8.2	--	10.5	--	20	0	--	--	1420	--
461939101071301	11-12-71	8.1	--	8.0	--	140	0	--	--	1520	--
462012100581802	06-28-72	8.2	--	10.0	--	24	0	--	--	1840	--
462016101432901	04-09-69	7.5	--	--	--	200	--	--	--	1070	--
462021102564301	07-22-75	8.6	--	16.0	--	13	0	--	--	1400	--
462032102253201	08-25-67	8.5	--	12.0	--	14	0	--	--	1280	--
462033102341302	03-11-69	8.2	--	9.5	25	54	0	--	--	1590	--
462038100402801	08-11-71	8.3	--	7.0	--	86	0	--	--	1510	--
462038102491402	05-01-68	8.4	--	10.0	200	24	0	--	--	863	--
462041100391701	00-00-52	8.0	--	--	--	0	--	--	--	800	--
462103101180301	11-16-72	8.2	--	7.0	--	12	0	--	--	1380	--
462110101180300	04-24-73	8.3	--	10.0	8	13	0	--	--	1370	--
462110102512502	12-24-68	--	--	--	--	40	--	--	--	730	--
462111101030001	05-17-73	8.4	--	10.0	--	18	0	--	--	1410	--
462111101030002	05-17-73	7.8	--	8.0	--	300	0	--	--	1070	--
462116101180301	04-24-73	8.5	--	--	--	13	0	--	--	1390	--

Site number	Date	Solids, residue at 180 degrees Celsius, dissolved (mg/L)	Solids, dissolved (tons per acre-foot)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium (percent)	Sodium adsorption ratio	Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO <sub>3</sub> )
461700102532603	08-18-67	1840	2.50	190	68	280	45	4	--	9.0	370
461716101014501	06-27-72	1320	1.80	4.3	1.6	530	98	55	--	1.9	1100
461722101063602	12-01-71	1030	1.40	77	24	260	66	7	--	3.7	780
461727103012701	07-01-75	1990	2.71	19	7.9	660	94	32	--	4.4	750
461735101533602	09-15-71	1710	2.33	120	68	370	58	7	0.0	5.6	520
461738103085801	08-28-74	1160	1.58	2.3	2.6	450	98	48	--	1.2	830
461748101010701	06-27-72	1380	1.88	4.9	1.2	570	98	60	--	2.0	1130
461749101511503	04-01-70	1140	--	--	--	--	--	--	--	--	--
461756102062601	05-01-48	1580	--	--	--	--	--	--	--	--	330
461801101010701	06-27-72	1370	1.86	3.3	4.4	560	98	47	--	2.0	1150
461801101070401	11-13-71	1320	1.80	160	65	180	37	3	0.0	8.6	730
461815102141202	07-23-59	--	--	95	46	0.0	--	0	--	--	260
461816102441602	03-11-69	1900	2.58	260	96	180	27	2	--	13	550
461820101131101	07-24-61	1650	--	6.0	0.50	480	--	50	--	--	710
461822102190901	08-17-82	474	0.64	77	36	24	13	0.6	--	5.3	--
461822102255101	06-17-69	1430	1.94	150	64	190	38	3	--	13	430
461833102551401	08-08-69	--	--	--	--	--	--	--	--	--	--
461836102341302	03-11-69	869	1.18	6.4	1.2	330	97	32	--	2.4	660
461841102132501	06-03-69	1720	2.34	9.2	3.4	590	97	42	--	3.8	540
461841102190901	12-01-67	947	1.29	15	6.9	310	90	17	--	5.4	540
461842102341301	08-18-82	1610	2.19	24	11	560	91	24	--	6.6	--
461845103015601	07-01-75	1930	2.62	41	14	600	89	21	--	5.9	790
461847101065501	11-13-71	1600	2.18	88	35	390	70	9	4.00	6.8	660
461849102391601	05-14-69	1210	1.65	8.0	8.8	320	92	19	--	4.0	680
461852103013701	07-01-75	1180	1.60	2.1	0.20	460	99	81	--	1.9	880
461901102090501	09-25-47	1110	--	--	--	--	--	--	--	--	330
461910103080201	06-04-75	1520	2.07	7.7	2.2	530	97	43	--	2.3	590
461930102551801	03-31-69	--	--	--	--	400	--	--	--	--	--
461931103014601	07-01-75	2070	2.82	220	160	130	19	2	--	7.6	430
461934102034701	07-25-67	1320	1.80	5.0	1.8	510	98	49	--	2.9	590
461939101071301	11-12-71	1520	2.07	39	10	500	88	18	11.0	3.7	820
462012100581802	06-28-72	1770	2.41	6.6	1.8	670	98	60	--	7.6	1130
462016101432901	04-09-69	1280	--	--	--	--	--	--	--	--	--
462021102564301	07-22-75	1430	1.94	3.7	1.0	590	99	70	--	2.1	1450
462032102253201	08-25-67	1290	1.75	3.2	1.5	550	99	64	--	1.9	1310
462033102341302	03-11-69	1570	2.14	16	3.4	570	95	34	--	4.7	940
462038100402801	08-11-71	1540	2.09	22	7.5	500	92	23	10.0	4.7	690
462038102491402	05-01-68	885	1.20	5.7	2.4	320	96	28	--	2.8	610
462041100391701	00-00-52	976	--	--	--	--	--	--	--	--	880
462103101180301	11-16-72	1390	1.89	3.3	1.0	560	99	69	18.0	1.8	1130
462110101180300	04-24-73	1390	1.89	3.8	0.90	540	99	65	--	2.0	1120
462110102512502	12-24-68	--	--	--	--	240	--	--	--	--	--
462111101030001	05-17-73	1410	1.92	4.7	1.6	540	98	55	6.00	2.5	950
462111101030002	05-17-73	1030	1.40	66	32	290	67	7	--	6.6	760
462116101180301	04-24-73	1400	1.90	3.8	0.90	570	99	69	--	2.6	1060

Site number	Date	Carbonate (mg/L as CO <sub>3</sub> )	Carbon dioxide, dis-solved (mg/L as CO <sub>2</sub> )	Sulfate, dis-solved (mg/L as SO <sub>4</sub> )	Chloride, dis-solved (mg/L as Cl)	Fluoride, dis-solved (mg/L as F)	Silica, dis-solved (mg/L as SiO <sub>2</sub> )	Nitrogen, nitrate, dis-solved (mg/L as N)	Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	Nitrogen, nitrate, dis-solved (mg/L as NO <sub>3</sub> )	Boron, dis-solved (µg/L as B)
461700102532603	08-18-67	0	--	1000	15	0.10	19	--	--	5.5	1100
461716101014501	06-27-72	0	11	240	37	1.7	16	0.230	--	1.0	2000
461722101063602	12-01-71	0	12	200	29	1.2	24	0.560	--	2.5	930
461727103012701	07-01-75	0	7.6	910	6.5	1.2	5.6	0.230	--	1.0	790
461735101533602	09-15-71	0	--	880	8.6	0.10	11	0.226	1.0	--	270
461738103085801	08-28-74	30	2.8	180	64	3.2	9.3	0.590	--	2.6	1300
461748101010701	06-27-72	0	11	200	93	1.9	16	0.230	--	1.0	2000
461749101511503	04-01-70	--	--	420	13	--	--	0.904	4.0	--	--
461756102062601	05-01-48	0	--	460	0.0	--	--	--	--	--	--
461801101010701	06-27-72	7	9.3	230	74	1.6	16	0.230	--	1.0	1900
461801101070401	11-13-71	0	--	480	1.4	0.60	25	0.226	1.0	--	710
461815102141202	07-23-59	0	--	210	9.8	--	--	--	--	0.0	--
461816102441602	03-11-69	0	--	780	49	0.30	15	--	--	170	700
461820101131101	07-24-61	0	--	450	8.0	--	--	0.904	4.0	--	--
461822102190901	08-17-82	--	--	110	8.6	0.10	12	--	--	--	170
461822102255101	06-17-69	0	--	690	6.1	0.20	10	--	--	4.2	440
461833102551401	08-08-69	--	--	--	--	--	--	--	--	20	--
461836102341302	03-11-69	0	--	180	3.0	1.3	8.4	--	--	0.0	560
461841102132501	06-03-69	0	--	860	2.5	2.5	8.5	--	--	2.5	670
461841102190901	12-01-67	0	--	290	4.5	0.10	--	--	--	0.0	880
461842102341301	08-18-82	--	--	530	5.0	0.60	9.9	--	--	--	950
461845103015601	07-01-75	0	13	830	5.1	1.1	5.4	0.230	--	1.0	430
461847101065501	11-13-71	0	--	680	2.1	0.90	21	0.565	2.5	--	620
461849102391601	05-14-69	12	--	150	10	5.5	11	--	--	2.5	1500
461852103013701	07-01-75	41	3.1	130	79	5.1	8.8	0.230	--	1.0	1500
461901102090501	09-25-47	--	--	450	0.0	--	--	--	--	--	--
461910103080201	06-04-75	7	4.8	640	11	0.40	7.8	0.230	--	1.0	340
461930102551801	03-31-69	--	--	--	--	--	--	--	--	5.0	--
461931103014601	07-01-75	0	86	1100	24	0.30	16	2.30	--	10	1900
461934102034701	07-25-67	0	--	600	4.7	0.90	7.7	--	--	1.0	580
461939101071301	11-12-71	0	--	530	5.6	1.9	20	0.226	1.0	--	1200
462012100581802	06-28-72	0	11	530	42	1.6	16	0.230	--	1.0	2300
462016101432901	04-09-69	--	--	510	4.0	--	--	0.00	0.0	--	--
462021102564301	07-22-75	48	6.2	8.6	13	10	10	0.200	--	0.90	1600
462032102253201	08-25-67	36	--	7.6	24	3.9	9.3	--	--	0.0	1400
462033102341302	03-11-69	0	--	520	8.0	1.1	7.3	--	--	1.0	480
462038100402801	08-11-71	5	--	600	3.3	0.70	19	0.813	3.6	--	1300
462038102491402	05-01-68	5	--	210	5.5	0.50	8.4	--	--	0.0	880
462041100391701	00-00-52	0	--	0.0	3.9	--	--	0.00	0.0	--	--
462103101180301	11-16-72	0	--	6.2	220	3.4	17	0.226	1.0	--	3000
462110101180300	04-24-73	0	9.0	15	230	2.9	18	--	--	--	3100
462110102512502	12-24-68	--	--	--	--	--	--	--	--	9.0	--
462111101030001	05-17-73	19	6.3	330	24	2.1	17	0.230	1.0	1.0	1900
462111101030002	05-17-73	0	19	270	5.3	0.50	27	0.230	--	1.0	790
462116101180301	04-24-73	25	5.6	16	230	2.1	15	0.230	--	1.0	2600



Site number	Date	Iron, dis- solved (µg/L as Fe)	Lead, dis- solved (µg/L as Pb)	Lithium, dis- solved (µg/L as Li)	Manga- nese, dis- solved (µg/L as Mn)	Mercury, dis- solved (µg/L as Hg)	Molyb- denum, dis- solved (µg/L as Mo)	Selen- ium, dis- solved (µg/L as Se)	Stron- tium, dis- solved (µg/L as Sr)	Vana- dium, dis- solved (µg/L as V)	Zinc, dis- solved (µg/L as Zn)
461700102532603	08-18-67	4000	--	--	--	--	--	--	--	--	--
461716101014501	06-27-72	220	--	--	10	--	--	--	--	--	--
461722101063602	12-01-71	--	--	--	--	--	--	--	--	--	--
461727103012701	07-01-75	370	--	--	60	--	--	--	--	--	--
461735101533602	09-15-71	2800	--	--	20	--	--	--	--	--	--
461738103085801	08-28-74	410	--	--	40	--	--	--	--	--	--
461748101010701	06-27-72	0	--	--	0	--	--	--	--	--	--
461749101511503	04-01-70	960	--	--	--	--	--	--	--	--	--
461756102062601	05-01-48	400	--	--	--	--	--	--	--	--	--
461801101010701	06-27-72	90	--	--	10	--	--	--	--	--	--
461801101070401	11-13-71	3300	--	--	120	--	--	--	--	--	--
461815102141202	07-23-59	9700	--	--	--	--	--	--	--	--	--
461816102441602	03-11-69	0	--	--	--	--	--	--	--	--	--
461820101131101	07-24-61	400	--	--	--	--	--	--	--	--	--
461822102190901	08-17-82	7	--	--	10	--	--	1	--	--	--
461822102255101	06-17-69	1700	--	--	--	--	--	--	--	--	--
461833102551401	08-08-69	300	--	--	--	--	--	--	--	--	--
461836102341302	03-11-69	280	--	--	--	--	--	--	--	--	--
461841102132501	06-03-69	500	--	--	--	--	--	--	--	--	--
461841102190901	12-01-67	4600	--	--	--	--	--	--	--	--	--
461842102341301	08-18-82	220	--	--	40	--	--	<1	--	--	--
461845103015601	07-01-75	730	--	--	60	--	--	--	--	--	--
461847101065501	11-13-71	4500	--	--	10	--	--	--	--	--	--
461849102391601	05-14-69	780	--	--	--	--	--	--	--	--	--
461852103013701	07-01-75	1100	--	--	<10	--	--	--	--	--	--
461901102090501	09-25-47	700	--	--	--	--	--	--	--	--	--
461910103080201	06-04-75	1300	--	--	40	--	--	--	--	--	--
461930102551801	03-31-69	200	--	--	--	--	--	--	--	--	--
461931103014601	07-01-75	13000	--	--	1600	--	--	--	--	--	--
461934102034701	07-25-67	80	--	--	--	--	--	--	--	--	--
461939101071301	11-12-71	2100	--	--	10	--	--	--	--	--	--
462012100581802	06-28-72	860	--	--	40	--	--	--	--	--	--
462016101432901	04-09-69	1200	--	--	--	--	--	--	--	--	--
462021102564301	07-22-75	190	--	--	<10	--	--	--	--	--	--
462032102253201	08-25-67	130	--	--	--	--	--	--	--	--	--
462033102341302	03-11-69	2800	--	--	--	--	--	--	--	--	--
462038100402801	08-11-71	6500	--	--	160	--	--	--	--	--	--
462038102491402	05-01-68	3500	--	--	--	--	--	--	--	--	--
462041100391701	00-00-52	1500	--	--	--	--	--	--	--	--	--
462103101180301	11-16-72	920	--	--	<10	--	--	--	--	--	--
462110101180300	04-24-73	200	2	70	<10	0.7	9	6	90	5	50
462110102512502	12-24-68	450	--	--	--	--	--	--	--	--	--
462111101030001	05-17-73	100	--	--	20	--	--	--	--	--	--
462111101030002	05-17-73	1300	--	--	240	--	--	--	--	--	--
462116101180301	04-24-73	300	--	--	60	--	--	--	--	--	--

Site number	Local Identifier	County code	Hydrologic unit	Geologic unit	Date	Depth below land surface, water level (feet)	Depth of well, total (feet)	Altitude of land surface, datum (feet)	Specific conductance, field (μS/cm)	Specific conductance, lab (μS/cm)
462116103021401	133-098-6DCC	087	10130205	125TRVL	07-01-75	--	338	--	2280	--
462118102205103	133-093-10ABB3	041	10130204	--	08-12-82	--	405	--	1880	1920
462119102440601	133-096-10BBB	041	10130204	125TGRV	08-17-67	--	141	2673	2910	--
462123101110801	133-084-12BAA	037	10130206	112SLDS	05-17-73	--	79	--	728	--
462124102234901	133-093-5CCD	041	10130204	125TGRV	08-29-67	--	207	2420	1630	--
462125102031801	133-091-01DCD	041	10130204	125TGRV	04-23-81	--	--	2282	1325	1390
462129101095301	133-083-6CDD	037	10130206	211FXHL	12-03-71	--	307	--	1330	--
462129101105901	133-084-1DCC	037	10130206	112SLDS	05-17-73	--	99	1899	1170	--
462144102291002	133-094-4DAA2	041	10130204	125TGRV	08-24-67	--	165	2465	1920	--
462144102291003	133-094-4DAA3	041	10130204	--	08-12-82	--	540	--	2100	2090
462150102225301	133-093-5ADD1	041	10130204	125TGRV	07-13-65	--	90	2452	1360	--
462157102193701	133-093-2ACB	041	10130204	125TGRV	01-21-60	--	140	2385	--	--
462203102194601	133-093-2BAD	041	10130204	--	06-02-66	--	25	2376	4560	--
462204102035601	133-091-1BBB	041	10130204	--	07-26-67	--	121	2322	500	--
462209101005801	133-082-5ABC	059	10130206	211FXHL	06-27-72	--	320	1740	2300	--
462210102160302	133-092-5BAA2	041	10130204	125TGRV	08-24-67	--	310	2382	1720	--
462210102163001	133-092-5BBB1	041	10130204	125TGRV	08-02-54	--	306	2396	--	--
462210102191801	133-093-2AAB	041	10130204	125TGRV	07-26-67	--	402	2381	1910	--
462211102473201	133-096-6BAB	041	10130204	125TGRV	11-12-67	--	212	2770	2170	--
462216102102401	135-094-31CCC	041	10130204	125SNLB	10-01-71	--	81	--	604	--
462218101564901	134-090-35DDC	037	10130204	125CNBL	09-26-72	--	420	--	2000	--
462219102192801	134-093-35DCD	041	10130204	125TGRV	07-26-67	--	378	2380	1920	--
--	--	037	10130204	211FXHL	09-26-72	--	285	--	2000	--
462225101564901	134-090-35DDB	037	10130204	125CNBL	09-26-72	--	560	--	2050	--
462231101563001	134-090-36CBC	037	10130204	211FXHL	09-26-72	--	880	--	2000	--
462231101564901	134-090-35DAC	037	10130204	125CNBL	09-26-72	--	560	--	2050	--
462232102192801	134-093-35DBD	041	10130204	125TGRV	07-28-67	--	421	2422	1890	--
462235103002701	134-098-33BCC	087	10130205	125TRVL	06-04-75	--	200	--	2190	--
462236102503503	134-097-34DAA3	041	10130204	125TGRV	11-17-66	--	189	2794	1180	--
462243102453602	134-096-32ADD2	041	10130204	125TGRV	08-23-67	--	240	2710	1790	--
462259102264101	134-094-35AAA	041	10130204	--	08-12-82	--	220	--	1440	1440
462301102303101	134-094-32AAA1	041	10130204	125TGRV	09-01-67	--	390	2465	1810	--
--	--	041	10130204	125TGRV	05-16-69	--	390	2465	--	--
462303100474002	134-080-31BBA2	085	10130206	211FXHL	04-23-71	--	168	--	--	--
462315102353501	134-095-27DDA	041	10130204	--	08-17-82	--	180	--	1550	1530
462316102402701	134-095-30CCB	041	10130204	--	08-18-82	--	216	--	1080	1070
462323102002601	134-090-29DAD	037	10130204	125TGRV	05-21-79	--	63	--	--	--
462328102341901	134-095-26DAA	041	10130204	--	08-17-82	--	592	--	1830	1810
462336102453601	134-096-29ADD1	041	10130204	--	08-18-82	--	280	2705	1900	1900
462341100551202	134-081-30BCD2	059	10130206	211FXHL	07-13-72	--	200	--	2490	--
462351101505201	134-089-27ABC1	037	10130204	125TGRV	09-25-72	--	69	--	1610	--
462351103071801	134-099-21DCC	087	10130205	125TRVL	10-22-76	--	411	2885	1850	--
462355102414202	134-096-25BBB2	041	10130204	125TGRV	05-20-69	--	324	2610	1610	--
462415102002601	134-090-20DAD1	037	10130204	125TGRV	05-21-79	--	150	--	2100	--
462421101045401	134-083-23CAD	059	10130206	112EMCK	07-08-72	--	135	--	1410	--

Site number	Date	pH, field (stand- ard units)	pH, lab (stand- ard units)	Temper- ature, water (degrees Celsius)	Color (plati- num cobalt scale)	Hard- ness, total (mg/L as CaCO <sub>3</sub> )	Noncar- bonate hard- ness, total (mg/L as CaCO <sub>3</sub> )	Alka- linity, field (mg/L as CaCO <sub>3</sub> )	Alka- linity, lab (mg/L as CaCO <sub>3</sub> )	Solids, sum of constit- uents, dis- solved (mg/L)	Solids, residue at 105 degrees Celsius, total (mg/L)
462116103021401	07-01-75	8.7	--	14.0	--	24	0	--	--	1600	--
462118102205103	08-12-82	8.2	8.6	15.0	--	10	--	--	1010	1180	--
462119102440601	08-17-67	8.3	--	8.0	--	140	0	--	--	2030	--
462123101110801	05-17-73	7.9	--	8.5	--	230	0	--	--	445	--
462124102234901	08-29-67	8.4	--	10.0	1000	17	0	--	--	1030	--
462125102031801	04-23-81	8.4	8.4	12.5	--	434	120	--	310	1005	--
462129101095301	12-03-71	8.0	--	--	--	14	0	--	--	857	--
462129101105901	05-17-73	8.3	--	8.0	--	120	0	--	--	756	--
462144102291002	08-24-67	8.4	--	12.0	700	26	0	--	--	1240	--
462144102291003	08-12-82	8.3	8.5	13.0	--	19	--	--	1150	1270	--
462150102225301	07-13-65	7.6	--	--	--	220	0	--	--	884	--
462157102193701	01-21-60	--	--	--	400	14	--	--	--	1260	--
462203102194601	06-02-66	7.5	--	--	--	1200	490	--	--	2960	--
462204102035601	07-26-67	8.1	--	10.5	20	89	0	--	--	306	--
462209101005801	06-27-72	8.3	--	9.5	--	18	0	--	--	1470	--
462210102160302	08-24-67	8.4	--	11.5	--	10	--	--	--	1070	--
462210102163001	08-02-54	--	--	--	--	15	--	--	--	1260	--
462210102191801	07-26-67	8.5	--	13.5	100	14	0	--	--	1180	--
462211102473201	11-12-67	8.0	--	--	--	40	--	--	--	1430	--
462216102102401	10-01-71	8.1	--	9.0	--	91	0	--	--	367	--
462218101564901	09-26-72	7.9	--	--	--	8	0	--	--	1250	--
462219102192801	07-26-67	8.4	--	11.0	90	14	0	--	--	1200	--
--	09-26-72	8.0	--	--	--	12	0	--	--	1250	--
462225101564901	09-26-72	8.1	--	--	--	8	0	--	--	1270	--
462231101563001	09-26-72	8.0	--	--	--	12	0	--	--	1250	--
462231101564901	09-26-72	8.1	--	--	--	8	0	--	--	1270	--
462232102192801	07-28-67	8.5	--	--	100	13	0	--	--	1180	--
462235103002701	06-04-75	8.4	--	10.0	--	28	0	--	--	1440	--
462236102503503	11-17-66	8.0	--	--	--	120	0	--	--	767	--
462243102453602	08-23-67	8.4	--	11.0	500	22	0	--	--	1130	--
462259102264101	08-12-82	8.5	8.7	11.5	--	11	--	--	717	898	--
462301102303101	09-01-67	8.5	--	11.5	40	12	0	--	--	1130	--
--	05-16-69	--	--	10.0	--	--	--	--	--	--	--
462303100474002	04-23-71	8.4	--	--	--	7	--	--	--	1730	--
462315102353501	08-17-82	8.3	8.6	11.5	--	17	--	--	772	908	--
462316102402701	08-18-82	7.5	7.9	15.0	--	130	--	--	372	694	--
462323102002601	05-21-79	6.9	--	--	--	2200	--	--	--	--	--
462328102341901	08-17-82	8.5	8.6	15.0	--	9	--	--	985	1110	--
462336102453601	08-18-82	8.5	8.7	16.0	--	10	--	--	870	1140	--
462341100551202	07-13-72	8.2	--	10.0	--	18	0	--	--	1570	--
462351101505201	09-25-72	7.8	--	--	--	860	490	--	--	1180	--
462351103071801	10-22-76	8.7	--	11.5	--	60	0	--	--	1060	--
462355102414202	05-20-69	8.3	--	10.5	--	70	0	--	--	1010	--
462415102002601	05-21-79	8.2	--	--	--	37	0	--	--	--	--
462421101045401	07-08-72	7.1	--	11.5	--	600	110	--	--	959	--

Site number	Date	Solids, residue at 180 degrees Celsius, dissolved (mg/L)	Solids, dissolved (tons per acre-foot)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium (percent)	Sodium adsorption ratio	Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO <sub>3</sub> )
462116103021401	07-01-75	1570	2.14	5.6	2.4	550	98	49	--	2.1	550
462118102205103	08-12-82	1190	1.62	2.3	0.90	490	99	69	--	1.8	--
462119102440601	08-17-67	1810	2.46	36	12	660	91	24	--	6.6	790
462123101110801	05-17-73	436	0.59	58	21	77	41	2	--	6.6	460
462124102234901	08-29-67	1040	1.41	4.3	1.6	400	98	42	--	1.4	730
462125102031801	04-23-81	--	1.37	86	53	160	44	3	--	7.1	--
462129101095301	12-03-71	855	1.16	3.6	1.2	330	98	38	10.0	1.0	640
462129101105901	05-17-73	736	1.00	28	12	240	81	9	6.00	3.7	510
462144102291002	08-24-67	1280	1.74	6.0	2.7	460	97	39	--	2.3	740
462144102291003	08-12-82	1310	1.78	5.4	1.3	520	98	52	--	2.1	--
462150102225301	07-13-65	888	--	--	--	270	--	8	--	--	530
462157102193701	01-21-60	--	--	--	--	--	--	--	--	--	--
462203102194601	06-02-66	3650	--	250	140	730	--	9	--	--	890
462204102035601	07-26-67	292	0.40	20	9.5	83	65	4	--	5.8	290
462209101005801	06-27-72	1360	1.85	5.8	0.90	590	98	60	--	2.2	1170
462210102160302	08-24-67	1080	1.47	2.5	1.0	450	99	61	--	1.8	1090
462210102163001	08-02-54	--	--	--	--	--	--	--	--	--	--
462210102191801	07-26-67	1200	1.63	4.0	1.0	500	99	58	--	1.8	1220
462211102473201	11-12-67	1420	--	--	--	540	--	37	--	--	970
462216102102401	10-01-71	378	0.51	20	10	100	70	5	--	3.1	340
462218101564901	09-26-72	1210	1.65	2.5	0.50	530	99	80	--	1.4	1190
462219102192801	07-26-67	1230	1.67	4.4	0.70	510	99	59	--	1.8	1250
--	09-26-72	1250	1.70	2.6	1.3	520	99	66	--	1.5	1200
462225101564901	09-26-72	1150	1.56	2.6	0.40	530	99	81	--	1.5	1240
462231101563001	09-26-72	1250	1.70	2.6	1.3	520	99	66	19.0	1.5	1200
462231101564901	09-26-72	1150	1.56	2.6	0.40	530	99	80	20.0	1.5	1240
462232102192801	07-28-67	1210	1.65	4.8	0.20	500	99	61	--	1.8	1220
462235103002701	06-04-75	1510	2.05	8.1	1.9	510	97	42	--	2.2	650
462236102503503	11-17-66	751	--	--	--	250	--	10	--	--	630
462243102453602	08-23-67	1170	1.59	5.0	2.3	430	97	40	--	1.9	810
462259102264101	08-12-82	957	1.30	2.8	1.0	370	98	48	--	1.7	--
462301102303101	09-01-67	1150	1.56	2.2	1.6	470	99	59	--	1.9	1150
--	05-16-69	--	--	--	--	--	--	--	--	--	--
462303100474002	04-23-71	--	--	1.0	1.0	500	--	84	--	--	1040
462315102353501	08-17-82	980	1.33	4.0	1.7	370	98	39	--	2.3	--
462316102402701	08-18-82	679	0.92	27	14	200	77	8	--	4.6	--
462323102002601	05-21-79	3550	--	520	220	250	--	2	--	--	--
462328102341901	08-17-82	1130	1.54	2.1	0.84	460	99	68	--	2.1	--
462336102453601	08-18-82	1150	1.56	3.1	0.44	470	99	66	--	1.7	--
462341100551202	07-13-72	1670	2.27	5.0	1.3	610	98	63	--	2.5	1100
462351101505201	09-25-72	1250	1.70	200	88	45	10	0.7	0.0	4.7	450
462351103071801	10-22-76	1170	1.59	12	7.3	390	93	22	--	1.7	680
462355102414202	05-20-69	1100	1.50	5.1	14	380	92	20	--	1.8	930
462415102002601	05-21-79	1450	--	9.2	3.5	480	--	34	--	--	300
462421101045401	07-08-72	942	1.28	140	60	100	26	2	--	5.9	600

Site number	Date	Carbonate (mg/L as CO <sub>3</sub> )	Carbon dioxide, dis- solved (mg/L as CO <sub>2</sub> )	Sulfate, dis- solved (mg/L as SO <sub>4</sub> )	Chloride, dis- solved (mg/L as Cl)	Fluoride, dis- solved (mg/L as F)	Silica, dis- solved (mg/L as SiO <sub>2</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as N)	Nitro- gen, nitrate, total (mg/L as NO <sub>3</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as NO <sub>3</sub> )	Boron, dis- solved (µg/L as B)
462116103021401	07-01-75	27	1.9	730	5.1	0.40	5.0	0.230	--	1.0	590
462118102205103	08-12-82	--	--	10	54	5.1	8.7	--	--	--	2000
462119102440601	08-17-67	16	--	890	9.5	0.40	7.5	--	--	0.0	880
462123101110801	05-17-73	0	9.2	33	2.8	0.50	20	0.230	--	1.0	220
462124102234901	08-29-67	13	--	240	10	0.60	--	--	--	0.0	1900
462125102031801	04-23-81	--	--	430	77	0.30	4.6	--	--	--	210
462129101095301	12-03-71	0	--	190	0.0	1.4	18	0.226	1.0	--	620
462129101105901	05-17-73	3	4.2	200	4.5	1.4	15	0.230	1.0	1.0	630
462144102291002	08-24-67	18	--	370	11	0.20	--	--	--	3.0	1600
462144102291003	08-12-82	--	--	13	23	3.4	9.0	--	--	--	1500
462150102225301	07-13-65	0	--	350	6.0	--	--	--	--	0.0	--
462157102193701	01-21-60	--	--	--	--	--	--	--	--	--	--
462203102194601	06-02-66	0	--	1900	51	--	--	--	--	5.0	--
462204102035601	07-26-67	0	--	30	1.1	0.40	11	--	--	0.0	100
462209101005801	06-27-72	7	9.5	170	100	2.3	17	0.230	--	1.0	2000
462210102160302	08-24-67	24	--	17	27	3.4	8.6	--	--	1.0	1200
462210102163001	08-02-54	--	--	--	--	--	--	--	--	--	--
462210102191801	07-26-67	37	--	2.1	24	5.9	7.0	--	--	0.0	1300
462211102473201	11-12-67	0	--	390	2.9	--	--	--	--	1.0	--
462216102102401	10-01-71	0	4.3	50	0.70	0.60	15	0.230	--	1.0	220
462218101564901	09-26-72	0	24	7.4	100	4.0	10	0.430	--	1.9	2300
462219102192801	07-26-67	24	--	5.0	24	4.9	7.2	--	--	0.0	1300
--	09-26-72	0	19	12	100	4.2	11	0.230	--	1.0	2200
462225101564901	09-26-72	0	16	13	97	2.7	9.9	0.230	--	1.0	2000
462231101563001	09-26-72	0	--	12	100	4.2	11	0.226	1.0	--	2200
462231101564901	09-26-72	0	--	13	97	2.7	9.9	0.226	1.0	--	2000
462232102192801	07-28-67	29	--	2.2	24	5.0	7.1	--	--	0.0	1300
462235103002701	06-04-75	9	4.3	560	13	0.90	5.5	0.770	--	3.4	1000
462236102503503	11-17-66	0	--	140	3.8	--	--	--	--	0.0	--
462243102453602	08-23-67	13	--	270	5.1	0.20	--	--	--	2.0	980
462259102264101	08-12-82	--	--	64	16	3.7	7.3	--	--	--	1000
462301102303101	09-01-67	29	--	32	15	1.7	8.9	--	--	1.0	660
--	05-16-69	--	--	--	--	--	--	--	--	--	--
462303100474002	04-23-71	36	--	10	150	3.2	--	1.13	5.0	--	--
462315102353501	08-17-82	--	--	44	11	3.5	7.3	--	--	--	650
462316102402701	08-18-82	--	--	210	3.3	0.30	11	--	--	--	370
462323102002601	05-21-79	--	--	1600	44	--	--	0.500	--	2.2	--
462328102341901	08-17-82	--	--	23	15	2.1	8.7	--	--	--	930
462336102453601	08-18-82	--	--	45	79	4.4	12	--	--	--	1900
462341100551202	07-13-72	0	11	320	69	3.2	17	0.230	--	1.0	2300
462351101505201	09-25-72	0	11	580	22	0.20	13	0.450	2.0	2.0	170
462351103071801	10-22-76	25	2.3	270	9.1	1.9	5.3	0.050	--	0.20	210
462355102414202	05-20-69	7	--	120	9.9	6.8	8.2	--	--	0.0	200
462415102002601	05-21-79	--	3.0	460	11	--	--	--	--	<1.0	--
462421101045401	07-08-72	0	76	310	14	0.50	26	0.230	--	1.0	710

Site number	Date	Iron, dis- solved (µg/L as Fe)	Lead, dis- solved (µg/L as Pb)	Lithium, dis- solved (µg/L as Li)	Manga- nese, dis- solved (µg/L as Mn)	Mercury, dis- solved (µg/L as Hg)	Molyb- denum, dis- solved (µg/L as Mo)	Selen- ium, dis- solved (µg/L as Se)	Stron- tium, dis- solved (µg/L as Sr)	Vana- dium, dis- solved (µg/L as V)	Zinc, dis- solved (µg/L as Zn)
462116103021401	07-01-75	1300	--	--	40	--	--	--	--	--	--
462118102205103	08-12-82	85	--	--	2	--	--	<1	--	--	--
462119102440601	08-17-67	900	--	--	--	--	--	--	--	--	--
462123101110801	05-17-73	1200	--	--	180	--	--	--	--	--	--
462124102234901	08-29-67	220	--	--	--	--	--	--	--	--	--
462125102031801	04-23-81	30	--	50	30	--	--	--	1200	--	--
462129101095301	12-03-71	0	--	--	0	--	--	--	--	--	--
462129101105901	05-17-73	<10	--	--	160	--	--	--	--	--	--
462144102291002	08-24-67	700	--	--	--	--	--	--	--	--	--
462144102291003	08-12-82	90	--	--	10	--	--	<1	--	--	--
462150102225301	07-13-65	330	--	--	--	--	--	--	--	--	--
462157102193701	01-21-60	--	--	--	--	--	--	--	--	--	--
462203102194601	06-02-66	800	--	--	--	--	--	--	--	--	--
462204102035601	07-26-67	180	--	--	--	--	--	--	--	--	--
462209101005801	06-27-72	270	--	--	30	--	--	--	--	--	--
462210102160302	08-24-67	340	--	--	--	--	--	--	--	--	--
462210102163001	08-02-54	--	--	--	--	--	--	--	--	--	--
462210102191801	07-26-67	220	--	--	--	--	--	--	--	--	--
462211102473201	11-12-67	1400	--	--	--	--	--	--	--	--	--
462216102102401	10-01-71	0	--	--	170	--	--	--	--	--	--
462218101564901	09-26-72	820	--	--	10	--	--	--	--	--	--
462219102192801	07-26-67	180	--	--	--	--	--	--	--	--	--
--	09-26-72	1200	--	--	20	--	--	--	--	--	--
462225101564901	09-26-72	700	--	--	60	--	--	--	--	--	--
462231101563001	09-26-72	1200	--	--	20	--	--	--	--	--	--
462231101564901	09-26-72	700	--	--	60	--	--	--	--	--	--
462232102192801	07-28-67	240	--	--	--	--	--	--	--	--	--
462235103002701	06-04-75	360	--	--	40	--	--	--	--	--	--
462236102503503	11-17-66	690	--	--	--	--	--	--	--	--	--
462243102453602	08-23-67	0	--	--	--	--	--	--	--	--	--
462259102264101	08-12-82	240	--	--	9	--	--	<1	--	--	--
462301102303101	09-01-67	90	--	--	--	--	--	--	--	--	--
--	05-16-69	--	--	--	--	--	--	--	--	--	--
462303100474002	04-23-71	100	--	--	0	--	--	--	--	--	--
462315102353501	08-17-82	220	--	--	16	--	--	<1	--	--	--
462316102402701	08-18-82	360	--	--	39	--	--	<1	--	--	--
462323102002601	05-21-79	1	--	--	--	--	--	--	--	--	--
462328102341901	08-17-82	110	--	--	4	--	--	<1	--	--	--
462336102453601	08-18-82	57	--	--	4	--	--	<1	--	--	--
462341100551202	07-13-72	<20	--	--	10	--	--	--	--	--	--
462351101505201	09-25-72	1900	--	--	440	--	--	--	--	--	--
462351103071801	10-22-76	1100	--	--	50	--	--	--	--	--	--
462355102414202	05-20-69	250	--	--	--	--	--	--	--	--	--
462415102002601	05-21-79	1	--	--	--	--	--	--	--	--	--
462421101045401	07-08-72	5800	--	--	500	--	--	--	--	--	--

Site number	Local identifier	County code	Hydrologic unit	Geologic unit	Date	Depth below land surface, water level (feet)	Depth of well, total (feet)	Altitude of land surface, datum (feet)	Specific conductance, field (μS/cm)	Specific conductance, lab (μS/cm)
462427102514002	134-097-22BCC2	041	10130204	125TGRV	08-10-67	--	207	2701	1470	--
462445102303101	134-094-20AAA	041	10130204	--	08-17-82	--	180	--	1330	1290
462447102380601	134-095-20AAA	041	10130204	125TGRV	09-13-67	--	161	2572	906	--
462447102445902	134-096-21BAA2	041	10130204	--	07-22-80	--	1159	--	--	2290
462449100423001	134-080-23BAB	059	10130206	112SJMS	08-23-74	--	59	1647	1940	--
462450100380501	134-079-20AAB	059	10130206	--	08-06-75	--	71	1618	1150	--
462451101223703	134-085-21BAB3	037	10130206	125CNBL	06-28-73	--	205	2204	1010	--
462453102514002	134-097-15CCC2	041	10130204	125TGRV	10-31-67	--	81	2677	2260	--
462456100452801	134-080-17DDD	059	10130206	112SJMS	08-22-74	--	204	1699	1940	--
462512101082101	134-084-17DBD	059	10130206	112SLDS	07-10-72	--	325	--	1610	--
462519102331301	134-095-13ADC	041	10130204	--	08-18-82	--	1150	--	2150	2150
462519102332301	134-095-13ACD	041	10130204	125CNBL	01-01-37	--	546	2465	2050	--
462527101554301	134-090-13ACA1	037	10130204	125TGRV	07-10-68	--	42	--	7990	--
462527101554302	134-090-13ACA2	037	10130204	125TGRV	05-28-68	--	160	--	4820	--
462542102263201	134-094-12CCC	041	10130204	--	08-17-82	--	672	--	2320	2340
462548102190002	134-093-12CCC2	041	10130204	125TGRV	03-07-69	--	60	2494	2830	--
462600103164902	134-100-7ADD2	087	10130204	125TRVL	09-08-77	--	304	2935	1900	--
462603102232301	134-093-8DBB	041	10130204	125TGRV	06-03-69	--	61	2528	3170	--
462604100530001	134-081-8DAD1	059	10130206	211FXHL	07-18-72	--	365	--	2540	--
462604100530002	134-081-8DAD2	059	10130206	211FXHL	07-18-72	--	375	--	2520	--
462636103015202	134-098-6DDA2	087	10130205	125TRVL	06-04-75	--	230	--	2090	--
462637102092702	134-091-6DDC2	041	10130204	125TGRV	08-08-67	--	474	2418	2330	--
462637102522701	134-097-4CDD	041	10130204	--	08-18-82	--	440	--	1850	1880
462638102125102	134-092-2CCC2	041	10130204	125TGRV	06-02-69	--	131	2438	1950	--
462638102363101	134-095-3CCD	041	10130204	125TGRV	08-31-67	--	118	2460	1670	--
462638102463202	134-096-5CCD2	041	10130204	125TGRV	03-11-69	--	160	2592	1580	--
462643101085901	134-083-5CCD1	059	10130206	211HLCK	07-08-72	--	277	--	1530	--
462643101085902	134-083-5CCD2	059	10130206	211HLCK	07-08-72	--	277	--	1640	--
462654101005001	133-082-5DBA	059	10130206	112EMCK	10-17-73	--	174	1742	2120	--
462703100542501	134-081-6DAB1	059	10130206	211HLCK	07-18-72	--	286	--	3180	--
462703100542502	134-081-6DAB2	059	10130206	211FXHL	07-18-72	--	360	--	2700	--
462709101131301	134-084-3ADC	059	10130206	211FXHL	09-19-75	--	426	1916	2240	--
462717100554901	134-082-1ACA	059	10130206	211HLCK	07-17-72	--	289	--	1420	--
462721101213101	134-085-3BBB	037	10130206	125CNBL	12-19-69	--	280	--	1340	--
462722101130301	134-084-3AAD	059	10130206	211HLCK	06-28-72	--	200	--	2020	--
462723100554001	134-082-1AAC	059	10130206	211HLCK	07-17-72	--	289	--	1800	--
462730102291601	135-094-33DDD	041	10130204	125SNLB	06-09-69	--	162	2535	2920	--
462730102325701	135-094-31CCC	041	10130204	125SNLB	05-15-69	--	81	2478	628	--
462739103003801	135-098-32DAD1	087	10130205	125SNLB	07-02-75	--	62	2885	4010	--
462742100452601	135-080-32DDA	059	10130206	211FXHL	08-07-72	--	330	--	1770	--
462747100564701	134-082-35DAA	059	10130206	112EMCK	10-17-73	--	119	1697	2370	--
462755101090601	135-083-32CBB1	059	10130206	211FXHL	05-27-75	--	466	1884	3110	--
462755101090602	135-083-32CBB2	059	10130206	211HLCK	05-27-75	--	370	1884	3870	--
462756102274001	135-094-35BCD	041	10130204	125SNLB	03-31-58	--	180	2596	3000	--
462801101101201	135-083-31BCD	059	10130206	--	06-14-72	--	500	--	1450	--

Site number	Date	pH, field (stand- ard units)	pH, lab (stand- ard units)	Temper- ature, water (degrees Celsius)	Color (plati- num cobalt scale)	Hard- ness, total (mg/L as CaCO <sub>3</sub> )	Noncar- bonate hard- ness, total (mg/L as CaCO <sub>3</sub> )	Alka- linity, field (mg/L as CaCO <sub>3</sub> )	Alka- linity, lab (mg/L as CaCO <sub>3</sub> )	Solids, sum of consti- tuents, dis- solved (mg/L)	Solids, residue at 105 degrees Celsius, total (mg/L)
462427102514002	08-10-67	8.5	--	--	200	26	0	--	--	944	--
462445102303101	08-17-82	8.4	8.6	13.5	--	18	--	--	648	802	--
462447102380601	09-13-67	8.4	--	10.0	500	18	0	--	--	549	--
462447102445902	07-22-80	--	8.1	--	--	12	--	--	--	--	--
462449100423001	08-23-74	8.2	--	9.5	--	62	0	--	--	1260	--
462450100380501	08-06-75	8.0	--	10.0	--	220	0	--	--	759	--
462451101223703	06-28-73	7.5	--	10.5	--	480	140	--	--	656	--
462453102514002	10-31-67	8.3	--	11.0	--	150	0	--	--	1510	--
462456100452801	08-22-74	8.1	--	10.0	--	76	0	--	--	1250	--
462512101082101	07-10-72	7.9	--	12.0	--	52	0	--	--	1060	--
462519102331301	08-18-82	8.3	8.6	12.0	--	9	--	--	1040	1290	--
462519102332301	01-01-37	--	--	--	--	74	0	--	--	1330	--
462527101554301	07-10-68	5.7	--	--	--	3500	--	--	--	5480	--
462527101554302	05-28-68	7.9	--	--	--	2000	--	--	--	3240	--
462542102263201	08-17-82	8.3	8.5	17.5	--	12	--	--	1260	1430	--
462548102190002	03-07-69	7.8	--	--	90	1200	680	--	--	2340	--
462600103164902	09-08-77	8.6	--	10.0	--	39	0	--	--	1310	--
462603102232301	06-03-69	7.8	--	9.0	25	340	0	--	--	2290	--
462604100530001	07-18-72	7.9	--	9.0	--	110	0	--	--	1760	--
462604100530002	07-18-72	7.9	--	8.0	--	32	0	--	--	1780	--
462636103015202	06-04-75	8.5	--	9.0	--	22	0	--	--	1360	--
462637102092702	08-08-67	8.4	--	10.5	40	17	0	--	--	1470	--
462637102522701	08-18-82	8.5	8.9	18.0	--	14	--	--	532	1210	--
462638102125102	06-02-69	7.8	--	10.0	--	25	0	--	--	1280	--
462638102363101	08-31-67	8.6	--	9.5	500	22	0	--	--	1050	--
462638102463202	03-11-69	8.6	--	--	400	52	0	--	--	1000	--
462643101085901	07-08-72	8.1	--	12.0	--	6	0	--	--	1020	--
462643101085902	07-08-72	8.2	--	11.0	--	5	0	--	--	1070	--
462654101005001	10-17-73	7.9	--	9.0	--	320	0	--	--	1350	--
462703100542501	07-18-72	7.9	--	8.0	--	45	0	--	--	2110	--
462703100542502	07-18-72	8.1	--	12.0	--	41	0	--	--	1910	--
462709101131301	09-19-75	8.3	--	11.0	--	20	0	--	--	1370	--
462717100554901	07-17-72	7.7	--	10.0	--	20	0	--	--	927	--
462721101213101	12-19-69	8.2	--	--	--	19	--	--	--	721	--
462722101130301	06-28-72	8.3	--	11.5	--	9	0	--	--	1380	--
462723100554001	07-17-72	8.1	--	9.5	--	20	0	--	--	1180	--
462730102291601	06-09-69	8.3	--	--	--	850	--	--	--	3650	--
462730102325701	05-15-69	7.7	--	9.5	100	120	0	--	--	393	--
462739103003801	07-02-75	7.4	--	8.0	--	3200	2700	--	--	4050	--
462742100452601	08-07-72	7.9	--	--	--	26	0	--	--	1150	--
462747100564701	10-17-73	8.4	--	9.0	--	36	0	--	--	1490	--
462755101090601	05-27-75	8.5	--	10.0	--	24	0	--	--	2000	--
462755101090602	05-27-75	8.6	--	11.0	--	50	0	--	--	2830	--
462756102274001	03-31-58	8.2	--	--	--	73	--	--	--	2180	--
462801101101201	06-14-72	7.4	--	10.5	--	69	0	--	--	908	--



Site number	Date	Solids, residus at 180 degrees Celsius, dissolved (mg/L)	Solids, dissolved (tons per acre-foot)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium (percent)	Sodium adsorption ratio	Residual, sodium, carbonates (mg/L as CaCO <sub>3</sub> )	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO <sub>3</sub> )
462427102514002	08-10-67	950	1.29	7.0	2.1	350	96	30	--	1.9	600
462445102303101	08-17-82	866	1.18	5.0	1.2	330	97	34	--	2.5	--
462447102380601	09-13-67	595	0.81	5.2	1.2	220	96	22	--	1.6	480
462447102445902	07-22-80	1830	--	3.0	1.0	--	99	77	--	2.4	--
462449100423001	08-23-74	1290	1.75	12	7.8	450	94	25	--	3.4	840
462450100380501	08-06-75	763	1.04	36	32	190	64	6	--	5.6	470
462451101223703	06-28-73	709	0.96	100	57	43	16	0.9	0.0	5.3	420
462453102514002	10-31-67	1540	2.09	24	21	490	88	18	--	4.0	770
462456100452801	08-22-74	1290	1.75	19	6.9	440	92	22	--	4.8	910
462512101082101	07-10-72	1010	1.37	14	4.1	380	94	23	--	2.3	720
462519102331301	08-18-82	1320	1.80	2.5	0.70	540	99	78	--	1.7	--
462519102332301	01-01-37	--	--	16	8.3	450	93	23	--	--	1230
462527101554301	07-10-68	6250	--	540	520	--	--	--	--	--	64
462527101554302	05-28-68	3630	--	410	230	--	--	--	--	--	250
462542102263201	08-17-82	1480	2.01	2.7	1.3	600	99	75	--	2.7	--
462548102190002	03-07-69	2400	3.26	290	120	310	35	4	--	15	630
462600103164902	09-08-77	1320	1.80	7.8	4.7	460	96	32	--	1.1	570
462603102232301	06-03-69	2230	3.03	82	34	640	80	15	--	10	700
462604100530001	07-18-72	1840	2.50	25	11	600	92	25	--	3.1	800
462604100530002	07-18-72	1760	2.39	6.6	3.8	610	97	47	--	1.8	760
462636103015202	06-04-75	1400	1.90	6.1	1.7	510	98	47	--	2.2	890
462637102092702	08-08-67	1470	2.00	4.7	1.3	610	99	64	--	2.4	1470
462637102522701	08-18-82	1260	1.71	4.2	0.90	430	98	50	--	1.7	--
462638102125102	06-02-69	1260	1.71	6.7	2.1	460	97	39	--	2.7	700
462638102363101	08-31-67	1050	1.43	5.4	2.1	410	97	38	--	1.9	830
462638102463202	03-11-69	1010	1.37	7.5	8.1	360	93	21	--	1.8	620
462643101085901	07-08-72	967	1.32	2.2	0.10	380	99	68	--	0.90	700
462643101085902	07-08-72	1040	1.41	1.8	0.10	400	99	79	--	1.1	740
462654101005001	10-17-73	1340	1.82	79	30	410	73	10	--	6.6	1170
462703100542501	07-18-72	2180	2.96	12	3.6	750	97	49	--	2.4	820
462703100542502	07-18-72	1940	2.64	9.2	4.4	680	97	46	--	2.6	890
462709101131301	09-19-75	1450	1.97	3.5	2.8	520	98	50	--	1.8	960
462717100554901	07-17-72	958	1.30	2.6	3.3	360	97	35	--	1.1	730
462721101213101	12-19-69	818	--	--	--	--	--	--	--	--	--
462722101130301	06-28-72	1360	1.85	2.5	0.70	490	99	71	--	1.2	620
462723100554001	07-17-72	1190	1.62	3.2	2.9	470	98	46	--	1.5	1000
462730102291601	06-09-69	--	--	500	--	280	--	--	--	--	--
462730102325701	05-15-69	388	0.53	25	14	100	65	4	--	3.3	350
462739103003801	07-02-75	4210	5.73	420	520	62	4	0.5	--	5.5	570
462742100452601	08-07-72	1180	1.60	5.9	2.8	430	97	37	--	1.9	800
462747100564701	10-17-73	1510	2.05	5.2	5.6	570	97	41	--	2.3	1110
462755101090601	05-27-75	2100	2.86	5.7	2.4	750	98	66	--	2.0	1160
462755101090602	05-27-75	2990	4.07	13	4.3	980	98	60	--	3.2	1140
462756102274001	03-31-58	1880	--	--	--	--	--	--	--	--	640
462801101101201	06-14-72	970	1.32	16	7.1	320	91	17	--	2.4	670

Site number	Date	Carbonate (mg/L as CO <sub>3</sub> )	Carbon dioxide, dis- solved (mg/L as CO <sub>2</sub> )	Sulfate, dis- solved (mg/L as SO <sub>4</sub> )	Chloride, dis- solved (mg/L as Cl)	Fluoride, dis- solved (mg/L as F)	Silica, dis- solved (mg/L as SiO <sub>2</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as N)	Nitro- gen, nitrate, total (mg/L as NO <sub>3</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as NO <sub>3</sub> )	Boron, dis- solved (µg/L as B)
462427102514002	08-10-67	14	--	270	5.2	0.80	1.7	--	--	0.0	520
462445102303101	08-17-82	--	--	46	17	3.2	7.1	--	--	--	740
462447102380601	09-13-67	5	--	81	2.6	0.20	--	--	--	0.0	630
462447102445902	07-22-80	--	--	--	--	--	--	--	--	--	--
462449100423001	08-23-74	0	8.5	350	5.0	1.3	15	0.230	--	1.0	1800
462450100380501	08-06-75	0	7.5	240	7.4	0.50	15	0.00	--	0.0	900
462451101223703	06-28-73	0	21	220	4.3	0.40	18	0.200	0.40	0.89	130
462453102514002	10-31-67	6	--	570	5.3	0.60	7.8	--	--	4.0	780
462456100452801	08-22-74	0	12	300	10	1.4	19	0.230	--	1.0	2100
462512101082101	07-10-72	0	15	270	2.3	2.1	24	0.230	--	1.0	1000
462519102331301	08-18-82	--	--	7.0	100	2.6	12	--	--	--	1900
462519102332301	01-01-37	--	--	23	22	2.0	13	0.050	--	0.20	--
462527101554301	07-10-68	0	--	3600	58	--	--	113	500	--	--
462527101554302	05-28-68	0	--	2200	26	--	--	--	--	--	--
462542102263201	08-17-82	--	--	21	33	1.5	9.9	--	--	--	1300
462548102190002	03-07-69	0	--	1300	6.9	1.2	13	--	--	0.50	810
462600103164902	09-08-77	9	2.4	530	4.4	0.60	5.7	0.230	--	1.0	190
462603102232301	06-03-69	0	--	1200	3.3	1.3	8.3	--	--	3.0	590
462604100530001	07-18-72	0	16	690	4.1	1.0	25	0.990	--	4.4	1700
462604100530002	07-18-72	0	15	750	1.7	0.60	25	0.560	--	2.5	1200
462636103015202	06-04-75	16	4.6	370	8.0	0.50	5.4	0.560	--	2.5	630
462637102092702	08-08-67	28	--	48	43	1.8	9.5	--	--	0.0	1400
462637102522701	08-18-82	--	--	420	19	1.6	8.2	--	--	--	970
462638102125102	06-02-69	0	--	460	3.6	4.0	7.0	--	--	1.0	890
462638102363101	08-31-67	23	--	190	3.2	0.30	--	--	--	0.0	930
462638102463202	03-11-69	12	--	300	2.9	2.9	7.6	--	--	0.0	200
462643101085901	07-08-72	0	8.9	260	0.0	1.0	27	0.230	--	1.0	1200
462643101085902	07-08-72	0	7.5	270	4.6	1.0	24	0.230	--	1.0	1200
462654101005001	10-17-73	0	24	130	96	0.70	21	0.230	--	1.0	1500
462703100542501	07-18-72	0	17	900	12	1.0	27	0.160	--	0.70	1800
462703100542502	07-18-72	0	11	700	41	1.4	26	0.560	--	2.5	1800
462709101131301	09-19-75	8	7.8	250	90	3.8	13	0.160	--	0.70	2600
462717100554901	07-17-72	0	23	160	8.5	5.5	24	0.230	--	1.0	1900
462721101213101	12-19-69	--	--	220	3.5	--	--	0.00	0.0	--	--
462722101130301	06-28-72	10	5.1	550	0.60	2.7	11	0.230	--	1.0	2500
462723100554001	07-17-72	0	13	140	44	3.0	22	0.560	--	2.5	2100
462730102291601	06-09-69	40	--	--	--	--	--	--	--	40	--
462730102325701	05-15-69	0	--	51	0.0	0.10	15	--	--	2.5	70
462739103003801	07-02-75	0	37	2700	16	0.50	11	7.90	--	35	1300
462742100452601	08-07-72	0	16	300	0.0	0.40	16	0.320	--	1.4	1200
462747100564701	10-17-73	18	7.3	240	82	2.7	16	0.230	--	1.0	2500
462755101090601	05-27-75	28	6.2	470	160	2.1	8.1	0.230	--	1.0	2800
462755101090602	05-27-75	44	4.9	1200	14	1.1	10	0.230	--	1.0	2400
462756102274001	03-31-58	48	--	860	0.0	--	--	--	--	--	--
462801101101201	06-14-72	0	43	230	0.0	0.50	--	0.110	--	0.50	1400

Site number	Date	Iron, dis- solved (µg/L as Fe)	Lead, dis- solved (µg/L as Pb)	Lithium, dis- solved (µg/L as Li)	Manga- nese, dis- solved (µg/L as Mn)	Mercury, dis- solved (µg/L as Hg)	Molyb- denum, dis- solved (µg/L as Mo)	Selen- ium, dis- solved (µg/L as Se)	Stron- tium, dis- solved (µg/L as Sr)	Vana- dium, dis- solved (µg/L as V)	Zinc, dis- solved (µg/L as Zn)
462427102514002	08-10-67	220	--	--	--	--	--	--	--	--	--
462445102303101	08-17-82	220	--	--	26	--	--	<1	--	--	--
462447102380601	09-13-67	20	--	--	--	--	--	--	--	--	--
462447102445902	07-22-80	0	--	--	0	--	--	--	--	--	--
462449100423001	08-23-74	490	--	--	240	--	--	--	--	--	--
462450100380501	08-06-75	150	--	--	260	--	--	--	--	--	--
462451101223703	06-28-73	<10	--	--	40	--	--	--	--	--	--
462453102514002	10-31-67	3400	--	--	--	--	--	--	--	--	--
462456100452801	08-22-74	200	--	--	80	--	--	--	--	--	--
462512101082101	07-10-72	1300	--	--	100	--	--	--	--	--	--
462519102331301	08-18-82	10	--	--	<10	--	--	<1	--	--	--
462519102332301	01-01-37	--	--	--	--	--	--	--	--	--	--
462527101554301	07-10-68	1400	--	--	--	--	--	--	--	--	--
462527101554302	05-28-68	980	--	--	--	--	--	--	--	--	--
462542102263201	08-17-82	80	--	--	<10	--	--	<1	--	--	--
462548102190002	03-07-69	3100	--	--	--	--	--	--	--	--	--
462600103164902	09-08-77	260	--	--	<10	--	--	--	--	--	--
462603102232301	06-03-69	0	--	--	--	--	--	--	--	--	--
462604100530001	07-18-72	310	--	--	40	--	--	--	--	--	--
462604100530002	07-18-72	80	--	--	30	--	--	--	--	--	--
462636103015202	06-04-75	550	--	--	120	--	--	--	--	--	--
462637102092702	08-08-67	80	--	--	--	--	--	--	--	--	--
462637102522701	08-18-82	460	--	--	17	--	--	<1	--	--	--
462638102125102	06-02-69	400	--	--	--	--	--	--	--	--	--
462638102363101	08-31-67	220	--	--	--	--	--	--	--	--	--
462638102463202	03-11-69	70	--	--	--	--	--	--	--	--	--
462643101085901	07-08-72	<20	--	--	10	--	--	--	--	--	--
462643101085902	07-08-72	40	--	--	0	--	--	--	--	--	--
462654101005001	10-17-73	380	--	--	20	--	--	--	--	--	--
462703100542501	07-18-72	680	--	--	50	--	--	--	--	--	--
462703100542502	07-18-72	<20	--	--	40	--	--	--	--	--	--
462709101131301	09-19-75	170	--	--	<10	--	--	--	--	--	--
462717100554901	07-17-72	400	--	--	50	--	--	--	--	--	--
462721101213101	12-19-69	820	--	--	--	--	--	--	--	--	--
462722101130301	06-28-72	230	--	--	60	--	--	--	--	--	--
462723100554001	07-17-72	90	--	--	50	--	--	--	--	--	--
462730102291601	06-09-69	--	--	--	--	--	--	--	--	--	--
462730102325701	05-15-69	6800	--	--	--	--	--	--	--	--	--
462739103003801	07-02-75	80	--	--	<10	--	--	--	--	--	--
462742100452601	08-07-72	640	--	--	50	--	--	--	--	--	--
462747100564701	10-17-73	60	--	--	<10	--	--	--	--	--	--
462755101090601	05-27-75	<10	--	--	40	--	--	--	--	--	--
462755101090602	05-27-75	1300	--	--	60	--	--	--	--	--	--
462756102274001	03-31-58	480	--	--	--	--	--	--	--	--	--
462801101101201	06-14-72	940	--	--	60	--	--	--	--	--	--

Site number	Local Identifier	County code	Hydrologic unit	Geologic unit	Date	Depth below land surface, water level (feet)	Depth of well, total (feet)	Altitude of land surface, datum (feet)	Specific conductance, field (μS/cm)	Specific conductance, lab (μS/cm)
462802102390401	135-095-32BCA	041	10130204	125TGRV	11-12-65	--	175	--	1300	--
462815101080302	134-083-32AAA2	059	10130206	112SLDS	10-23-73	--	99	1863	1790	--
462827102075503	135-091-28CCB3	041	10130204	125TGRV	06-03-69	--	120	2500	2330	--
462840102515201	135-097-28DAA	041	10130204	125TGRV	07-01-63	--	350	--	2040	--
462842102302302	135-094-28CBB2	041	10130204	125SNLB	06-04-69	--	60	2515	1810	--
462854102450001	135-096-28BDA	041	10130204	125TGRV	04-02-69	--	196	2569	1480	--
462856103200001	135-101-26BAA	087	10130204	125LHCK	08-28-74	--	1082	2929	2000	--
462907101051401	134-083-26BBA	059	10130206	112EMCK	10-25-73	--	144	1785	2110	--
462914102325702	135-094-19CCC2	041	10130204	125SNLB	09-12-67	--	81	2521	920	--
462914102393202	135-095-19DDC2	041	10130204	125TGRV	06-05-69	--	81	2515	1670	--
462921100475801	135-081-24DDD	059	10130206	211FXHL	08-07-75	--	291	1844	1760	--
462946102083201	135-091-20ACB	041	10130204	125TGRV	04-24-69	--	420	2481	1980	--
462958102464202	135-096-20BBB2	041	10130204	125SBTR	06-05-69	--	60	2557	2410	--
463004102515201	135-097-16DDD	041	10130204	--	08-18-82	--	80	--	2910	2920
463005101115501	135-084-23AAB	059	10130206	211HLCK	06-14-72	--	310	--	2170	--
463006101090901	134-083-17CCC	059	10130206	112SLDS	10-30-73	--	244	1830	1600	--
463012101081201	134-083-17ddb1	059	10130206	112SLDS	10-25-73	--	244	1819	1950	--
463022100441401	134-080-16DAA	059	10130206	112SJMS	10-16-73	--	169	1672	1930	--
463022102552703	135-097-18CBB3	041	10130204	--	08-18-82	--	160	--	--	1710
463050101141601	135-084-16AAD	059	10130206	112EMCK	07-25-74	--	269	1887	1540	--
463052102320901	135-094-18ABA	041	10130204	--	08-18-82	--	80	--	3510	3550
463057101141601	135-084-16AAA1	059	10130206	112EMCK	06-07-74	--	283	1893	919	--
463057101141602	135-084-16AAA2	059	10130206	112EMCK	07-24-74	--	174	1892	889	--
463057101141603	135-084-16AAA3	059	10130206	112EMCK	07-25-74	--	169	1890	933	--
463057101141604	135-084-16AAA4	059	10130206	112EMCK	07-25-74	--	304	1888	1480	--
463057101141605	135-084-16AAA5	059	10130206	112EMCK	07-25-74	--	214	1888	990	--
463057101141606	135-084-16AAA6	059	10130206	112EMCK	07-26-74	--	164	1888	969	--
463057101141607	135-084-16AAA7	059	10130206	112EMCK	07-26-74	--	94	1889	995	--
463057101141608	135-084-16AAA8	059	10130206	112EMCK	07-26-74	--	264	1888	904	--
463057101142601	135-084-16AAB	059	10130206	112EMCK	07-26-74	--	294	1891	1320	--
463057101143501	135-084-16ABA	059	10130206	112EMCK	06-10-74	--	296	1899	1950	--
463057101144401	135-084-16ABB	059	10130206	112EMCK	06-10-74	--	164	1880	1620	--
463058101114901	134-084-11DDD	059	10130206	112SLDS	10-29-73	--	159	1869	730	--
463058102190001	135-093-12CCC	041	10130204	125TGRV	11-30-67	--	201	2438	2160	--
463103101151301	135-084-9CCD	059	10130206	112EMCK	07-23-74	--	104	1883	2330	--
463139102563301	135-098-12BBA	087	10130204	--	08-11-82	--	150	--	3700	3830
463141103030902	135-099-1DDD2	087	10130204	125TRVL	08-29-74	--	902	2820	2390	--
463143102434501	135-096-10BAA	041	10130204	125TGRV	04-02-69	--	318	2589	1680	--
463144102231301	135-093-8ABA	041	10130204	125SNLB	06-03-69	--	81	2500	1300	--
463150101083101	134-083-5DCC	059	10130206	112EMCK	10-30-73	--	114	1835	1610	--
463150101112101	134-084-1CDC1	059	10130206	112SLDS	10-30-73	--	214	1895	773	--
463150101112102	134-084-1CDC2	059	10130206	112SLDS	10-29-73	--	94	1895	862	--
463213102515201	135-097-4ADD1	041	10130204	125SNLB	06-20-67	--	105	2593	1450	--
463219102520102	135-097-4ADB2	041	10130204	125SNLB	11-07-58	--	84	2595	1350	--
463223102190002	135-093-1BCB2	041	10130204	125TGRV	07-26-67	--	252	2532	1440	--

Site number	Date	pH, field (stand- ard units)	pH, lab (stand- ard units)	Temper- ature, water (degrees Celsius)	Color (plat- inum cobalt scale)	Hard- ness, total (mg/L as CaCO <sub>3</sub> )	Noncar- bonate hard- ness, total (mg/L as CaCO <sub>3</sub> )	Alka- linity, field (mg/L as CaCO <sub>3</sub> )	Alka- linity, lab (mg/L as CaCO <sub>3</sub> )	Solids, sum of constit- uents, dis- solved (mg/L)	Solids, residue at 105 degrees Celsius, total (mg/L)
462802102390401	11-12-65	8.8	--	--	7000	80	--	--	--	1040	--
462815101080302	10-23-73	8.0	--	8.5	--	470	0	--	--	1250	--
462827102075503	06-03-69	8.2	--	9.0	35	41	0	--	--	1560	--
462840102515201	07-01-63	8.2	--	--	--	20	0	--	--	1320	--
462842102302302	06-04-69	6.4	--	8.5	--	850	760	--	--	1370	--
462854102450001	04-02-69	9.6	--	11.0	400	18	0	--	--	834	--
462856103200001	08-28-74	8.5	--	--	--	13	0	--	--	1250	--
462907101051401	10-25-73	8.0	--	9.0	--	310	0	--	--	1400	--
462914102325702	09-12-67	8.0	--	9.5	--	200	0	--	--	588	--
462914102393202	06-05-69	7.9	--	7.0	10	450	0	--	--	1170	--
462921100475801	08-07-75	8.4	--	10.5	--	40	0	--	--	1140	--
462946102083201	04-24-69	8.4	--	12.0	200	20	0	--	--	1350	--
462958102464202	06-05-69	7.9	--	7.5	35	220	0	--	--	1700	--
463004102515201	08-18-82	7.4	7.9	15.0	--	620	--	--	514	2060	--
463005101115501	06-14-72	8.2	--	10.0	--	13	0	--	--	1390	--
463006101090901	10-30-73	8.1	--	9.0	--	93	0	--	--	1040	--
463012101081201	10-25-73	7.9	--	9.0	--	630	0	--	--	1370	--
463022100441401	10-16-73	8.1	--	8.5	--	64	0	--	--	1260	--
463022102552703	08-18-82	--	8.6	--	--	17	--	--	541	1080	--
463050101141601	07-25-74	8.4	--	--	--	120	0	--	--	1000	--
463052102320901	08-18-82	7.1	8.1	13.0	--	320	--	--	594	2660	--
463057101141601	06-07-74	8.1	--	9.5	--	470	16	--	--	574	--
463057101141602	07-24-74	8.2	--	--	--	440	13	--	--	555	--
463057101141603	07-25-74	8.2	--	--	--	470	34	--	--	585	--
463057101141604	07-25-74	8.2	--	--	--	130	0	--	--	968	--
463057101141605	07-25-74	8.1	--	--	--	480	14	--	--	632	--
463057101141606	07-26-74	8.2	--	--	--	470	17	--	--	610	--
463057101141607	07-26-74	8.2	--	--	--	320	0	--	--	624	--
463057101141608	07-26-74	8.2	--	--	--	460	1	--	--	568	--
463057101142601	07-26-74	8.3	--	--	--	160	0	--	--	868	--
463057101143501	06-10-74	8.1	--	--	--	290	0	--	--	1330	--
463057101144401	06-10-74	8.0	--	--	--	440	0	--	--	1120	--
463058101114901	10-29-73	7.8	--	8.5	--	280	2	--	--	463	--
463058102190001	11-30-67	8.1	--	9.0	100	98	0	--	--	1480	--
463103101151301	07-23-74	8.1	--	--	--	550	10	--	--	1710	--
463139102563301	08-11-82	7.5	8.1	13.0	--	120	--	--	702	2670	--
463141103030902	08-29-74	8.4	--	--	--	20	0	--	--	1520	--
463143102434501	04-02-69	8.5	--	11.0	600	59	0	--	--	1080	--
463144102231301	06-03-69	7.9	--	9.0	25	230	0	--	--	863	--
463150101083101	10-30-73	8.2	--	8.5	--	110	0	--	--	1060	--
463150101112101	10-30-73	7.6	--	9.0	--	290	18	--	--	501	--
463150101112102	10-29-73	7.6	--	8.0	--	400	110	--	--	570	--
463213102515201	06-20-67	7.9	--	9.0	--	270	0	--	--	964	--
463219102520102	11-07-58	7.9	--	8.5	400	170	0	--	--	911	--
463223102190002	07-26-67	8.2	--	--	40	70	0	--	--	934	--

Site number	Date	Solids, residue at 180 degrees Celsius, dis- solved (mg/L)	Solids, dis- solved (tons per acre- foot)	Calcium, dis- solved (mg/L as Ca)	Magne- sium, dis- solved (mg/L as Mg)	Sodium, dis- solved (mg/L as Na)	Sodium (percent)	Sodium adsorp- tion ratio	Resid- ual, sodium, car- bonate (mg/L as CaCO <sub>3</sub> )	Potas- sium, dis- solved (mg/L as K)	Bicar- bonate (mg/L as HCO <sub>3</sub> )
462802102390401	11-12-65	--	--	--	--	280	--	--	--	--	--
462815101080302	10-23-73	1260	1.71	110	47	250	53	5	--	6.8	670
462827102075503	06-03-69	1470	2.00	9.8	4.0	580	96	39	--	4.3	1040
462840102515201	07-01-63	1110	--	--	--	--	--	--	--	--	530
462842102302302	06-04-69	1530	2.08	180	97	91	19	1	--	9.7	110
462854102450001	04-02-69	943	1.28	5.4	1.1	340	97	35	--	2.1	340
462856103200001	08-28-74	1290	1.75	2.9	1.5	530	99	63	--	1.4	1300
462907101051401	10-25-73	1410	1.92	70	33	420	74	10	--	5.2	1050
462914102325702	09-12-67	570	0.78	38	26	140	59	4	--	5.6	370
462914102393202	06-05-69	1190	1.62	90	54	250	55	5	--	4.0	660
462921100475801	08-07-75	1160	1.58	7.9	5.0	420	95	29	--	2.3	800
462946102083201	04-24-69	1310	1.78	4.8	1.9	480	98	47	--	2.0	880
462958102464202	06-05-69	1810	2.46	55	20	520	83	15	--	5.4	770
463004102515201	08-18-82	2020	2.75	140	65	480	63	8	--	5.3	--
463005101115501	06-14-72	1430	1.94	3.9	0.90	530	99	63	--	1.4	930
463006101090901	10-30-73	1060	1.44	22	9.2	350	89	16	--	3.3	680
463012101081201	10-25-73	1360	1.85	140	68	250	46	4	--	6.8	800
463022100441401	10-16-73	1250	1.70	14	7.1	450	93	24	--	3.6	880
463022102552703	08-18-82	1080	1.47	4.7	1.3	390	98	41	--	2.6	--
463050101141601	07-25-74	1040	1.41	31	10	350	86	14	--	3.6	820
463052102320901	08-18-82	2420	3.29	78	30	760	83	19	--	8.5	--
463057101141601	06-07-74	590	0.80	130	35	35	14	0.7	--	2.4	550
463057101141602	07-24-74	588	0.80	110	40	33	14	0.7	--	4.5	520
463057101141603	07-25-74	616	0.84	120	41	34	14	0.7	--	4.3	530
463057101141604	07-25-74	993	1.35	32	12	330	84	13	--	3.2	830
463057101141605	07-25-74	638	0.87	130	38	41	16	0.8	--	3.9	570
463057101141606	07-26-74	635	0.86	120	41	40	16	0.8	--	4.5	550
463057101141607	07-26-74	621	0.84	79	30	110	42	3	--	4.2	560
463057101141608	07-26-74	591	0.80	130	33	27	11	0.5	--	3.4	560
463057101142601	07-26-74	875	1.19	37	16	280	79	10	--	4.7	700
463057101143501	06-10-74	1330	1.81	70	28	370	73	9	--	6.0	830
463057101144401	06-10-74	1120	1.52	97	48	230	53	5	--	5.9	700
463058101114901	10-29-73	465	0.63	67	27	51	28	1	--	3.8	340
463058102190001	11-30-67	1530	2.08	25	8.6	480	91	21	--	4.8	540
463103101151301	07-23-74	1680	2.28	130	55	380	60	7	--	6.1	660
463139102563301	08-11-82	2690	3.66	27	13	880	94	35	--	6.0	--
463141103030902	08-29-74	1550	2.11	2.7	3.3	650	98	63	--	1.9	1600
463143102434501	04-02-69	1090	1.48	5.3	11	380	93	22	--	1.4	580
463144102231301	06-03-69	820	1.12	51	24	230	68	7	--	7.7	520
463150101083101	10-30-73	1040	1.41	26	11	360	87	15	--	1.8	800
463150101112101	10-30-73	495	0.67	70	28	56	29	1	--	4.0	330
463150101112102	10-29-73	572	0.78	90	43	39	17	0.8	--	4.2	360
463213102515201	06-20-67	975	1.33	58	30	250	67	7	--	4.4	550
463219102520102	11-07-58	911	1.24	38	18	300	79	10	--	3.0	560
463223102190002	07-26-67	959	1.30	18	6.1	330	91	17	--	2.6	640

Site number	Date	Carbonate (mg/L as CO <sub>3</sub> )	Carbon dioxide, dis- solved (mg/L as CO <sub>2</sub> )	Sulfate, dis- solved (mg/L as SO <sub>4</sub> )	Chloride, dis- solved (mg/L as Cl)	Fluoride, dis- solved (mg/L as F)	Silica, dis- solved (mg/L as SiO <sub>2</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as N)	Nitro- gen, nitrate, total (mg/L as NO <sub>3</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as NO <sub>3</sub> )	Boron, dis- solved (µg/L as B)
462802102390401	11-12-65	--	--	--	--	--	--	--	--	--	--
462815101080302	10-23-73	0	11	470	4.2	0.50	22	0.230	--	1.0	730
462827102075503	06-03-69	0	--	440	1.0	2.0	7.5	--	--	1.0	740
462840102515201	07-01-63	40	6.2	450	7.0	--	--	0.00	--	0.0	--
462842102302302	06-04-69	0	--	910	21	0.10	13	--	--	40	440
462854102450001	04-02-69	--	--	300	13	1.3	2.1	--	--	0.0	630
462856103200001	08-28-74	31	6.9	2.9	24	6.1	9.0	0.560	--	2.5	1300
462907101051401	10-25-73	0	17	300	30	1.5	23	0.230	--	1.0	1600
462914102325702	09-12-67	0	--	180	5.7	0.40	14	--	--	0.0	110
462914102393202	06-05-69	0	--	430	2.9	0.30	12	--	--	2.5	300
462921100475801	08-07-75	8	5.2	270	9.4	0.60	12	0.630	--	2.8	6100
462946102083201	04-24-69	84	--	330	10	2.2	8.5	--	--	1.1	1100
462958102464202	06-05-69	0	--	700	16	1.1	8.7	--	--	2.5	480
463004102515201	08-18-82	--	--	1000	49	0.40	11	--	--	--	410
463005101115501	06-14-72	0	9.4	370	17	5.9	--	0.560	--	2.5	2700
463006101090901	10-30-73	0	8.6	280	16	1.5	25	0.230	--	1.0	1400
463012101081201	10-25-73	0	16	460	27	0.60	24	0.230	--	1.0	600
463022100441401	10-16-73	0	11	310	10	1.7	24	0.230	--	1.0	1900
463022102552703	08-18-82	--	--	340	4.3	1.1	9.4	--	--	--	820
4630501011141601	07-25-74	11	5.4	160	7.9	1.0	17	0.230	--	1.0	1600
463052102320901	08-18-82	--	--	1400	14	1.5	7.3	--	--	--	560
4630571011141601	06-07-74	0	7.0	73	1.0	0.20	24	0.230	--	1.0	<20
4630571011141602	07-24-74	0	5.3	88	2.9	0.90	15	0.230	--	1.0	430
4630571011141603	07-25-74	0	5.4	100	3.3	0.60	15	0.230	--	1.0	240
4630571011141604	07-25-74	0	8.4	150	8.9	0.90	19	0.230	--	1.0	1500
4630571011141605	07-25-74	0	7.2	110	3.4	0.60	17	0.230	--	1.0	350
4630571011141606	07-26-74	0	5.6	110	3.5	0.60	16	0.230	--	1.0	390
4630571011141607	07-26-74	0	5.7	100	3.1	0.70	15	0.230	--	1.0	870
4630571011141608	07-26-74	0	5.7	69	2.3	0.60	23	0.230	--	1.0	240
4630571011142601	07-26-74	5	5.7	150	5.9	1.0	18	0.230	--	1.0	1200
4630571011143501	06-10-74	0	11	410	4.9	0.60	25	0.230	--	1.0	950
4630571011144401	06-10-74	0	11	360	1.4	0.60	24	0.230	--	1.0	860
463058101114901	10-29-73	0	8.5	120	2.3	0.60	20	0.230	--	1.0	300
463058102190001	11-30-67	0	--	680	8.3	1.0	11	--	--	3.0	640
4631031011151301	07-23-74	0	8.4	790	3.5	0.90	14	0.230	--	1.0	630
463139102563301	08-11-82	--	--	1300	5.9	0.50	12	--	--	--	720
463141103030902	08-29-74	26	11	19	12	4.6	8.1	0.230	--	1.0	1300
463143102434501	04-02-69	10	--	370	8.1	6.5	8.1	--	--	0.0	200
463144102231301	06-03-69	0	--	280	1.1	0.40	17	--	--	1.0	300
463150101083101	10-30-73	0	8.1	230	4.1	4.0	22	0.230	--	1.0	2700
463150101112101	10-30-73	0	13	150	2.5	0.50	24	0.230	--	1.0	130
463150101112102	10-29-73	0	14	190	2.8	0.20	19	0.230	--	1.0	220
463213102515201	06-20-67	0	--	330	8.8	0.60	12	--	--	1.0	350
463219102520102	11-07-58	0	--	230	26	1.4	13	--	--	1.4	--
463223102190002	07-26-67	0	--	250	3.2	1.9	7.0	--	--	0.0	610

Site number	Date	Iron, dis- solved (µg/L as Fe)	Lead, dis- solved (µg/L as Pb)	Lithium, dis- solved (µg/L as Li)	Manga- ness, dis- solved (µg/L as Mn)	Mercury, dis- solved (µg/L as Hg)	Molyb- denum, dis- solved (µg/L as Mo)	Sela- nium, dis- solved (µg/L as Se)	Stron- tium, dis- solved (µg/L as Sr)	Vana- dium, dis- solved (µg/L as V)	Zinc, dis- solved (µg/L as Zn)
462802102390401	11-12-65	--	--	--	--	--	--	--	--	--	--
462815101080302	10-23-73	3600	--	--	60	--	--	--	--	--	--
462827102075503	06-03-69	0	--	--	--	--	--	--	--	--	--
462840102515201	07-01-63	--	--	--	--	--	--	--	--	--	--
462842102302302	06-04-69	100	--	--	--	--	--	--	--	--	--
462854102450001	04-02-69	740	--	--	--	--	--	--	--	--	--
462856103200001	08-28-74	270	--	--	20	--	--	--	--	--	--
462907101051401	10-25-73	270	--	--	20	--	--	--	--	--	--
462914102325702	09-12-67	130	--	--	--	--	--	--	--	--	--
462914102393202	06-05-69	1100	--	--	--	--	--	--	--	--	--
462921100475801	08-07-75	100	--	--	<10	--	--	--	--	--	--
462946102083201	04-24-69	460	--	--	--	--	--	--	--	--	--
462958102464202	06-05-69	400	--	--	--	--	--	--	--	--	--
463004102515201	08-18-82	50	--	--	30	--	--	7	--	--	--
463005101115501	06-14-72	300	--	--	20	--	--	--	--	--	--
463006101090901	10-30-73	920	--	--	160	--	--	--	--	--	--
463012101081201	10-25-73	190	--	--	140	--	--	--	--	--	--
463022100441401	10-16-73	<10	--	--	20	--	--	--	--	--	--
463022102552703	08-18-82	48	--	--	15	--	--	<1	--	--	--
463050101141601	07-25-74	2200	--	--	40	--	--	--	--	--	--
463052102320901	08-18-82	70	--	--	110	--	--	<1	--	--	--
463057101141601	06-07-74	1700	--	--	340	--	--	--	--	--	--
463057101141602	07-24-74	2900	--	--	220	--	--	--	--	--	--
463057101141603	07-25-74	4500	--	--	540	--	--	--	--	--	--
463057101141604	07-25-74	1200	--	--	80	--	--	--	--	--	--
463057101141605	07-25-74	5700	--	--	300	--	--	--	--	--	--
463057101141606	07-26-74	2600	--	--	300	--	--	--	--	--	--
463057101141607	07-26-74	4500	--	--	140	--	--	--	--	--	--
463057101141608	07-26-74	2700	--	--	40	--	--	--	--	--	--
463057101142601	07-26-74	3300	--	--	560	--	--	--	--	--	--
463057101143501	06-10-74	1400	--	--	160	--	--	--	--	--	--
463057101144401	06-10-74	5700	--	--	200	--	--	--	--	--	--
463058101114901	10-29-73	2100	--	--	540	--	--	--	--	--	--
463058102190001	11-30-67	1400	--	--	--	--	--	--	--	--	--
463103101151301	07-23-74	7400	--	--	220	--	--	--	--	--	--
463139102563301	08-11-82	70	--	--	40	--	--	<1	--	--	--
463141103030902	08-29-74	410	--	--	40	--	--	--	--	--	--
463143102434501	04-02-69	150	--	--	--	--	--	--	--	--	--
463144102231301	06-03-69	0	--	--	--	--	--	--	--	--	--
463150101083101	10-30-73	610	--	--	100	--	--	--	--	--	--
463150101112101	10-30-73	2100	--	--	620	--	--	--	--	--	--
463150101112102	10-29-73	3100	--	--	520	--	--	--	--	--	--
463213102515201	06-20-67	180	--	--	--	--	--	--	--	--	--
463219102520102	11-07-58	570	--	--	100	--	--	--	--	--	--
463223102190002	07-26-67	1100	--	--	--	--	--	--	--	--	--



Site number	Local Identifier	County code	Hydrologic unit	Geologic unit	Date	Depth below land surface, water level (feet)	Depth of well, total (feet)	Altitude of land surface, datum (feet)	Specific conductance, field (μS/cm)	Specific conductance, lab (μS/cm)
463232103001901	136-098-33CCD	087	10130204	125SNLB	07-02-75	--	120	--	2390	--
463238102542701	136-097-31DDD	041	10130204	--	08-19-82	--	92	--	1850	1920
463239102522501	136-097-33DCC	041	10130204	125SNLB	06-20-67	--	104	2600	1910	--
463245100441101	135-080-33DDA	059	10130206	112LTHR	10-12-73	--	169	1725	2080	--
463250101083501	136-083-32CDD1	059	10130206	125CBLD	06-05-72	--	550	--	2310	--
463258102302201	136-094-33CBC	041	10130204	125SNLB	08-21-67	--	50	2582	10000	--
463301102353701	136-095-34DAA1	041	10130204	125SNLB	03-20-56	--	48	2670	1960	--
463318103021901	136-098-31ABB	087	10130204	125LHCK	07-22-75	--	960	--	2070	--
463320102212802	136-093-34BCB2	041	10130204	125SNLB	06-01-69	--	100	2515	888	--
463338103042001	136-099-26DAD	087	10130204	125TRVL	10-28-76	--	534	2640	2000	--
463345101042001	136-083-26DDC	059	10130206	125CBLD	06-05-72	--	105	--	9090	--
463410103150601	136-100-28BAB	087	10130204	125SNLB	08-12-82	--	54	--	1130	1140
463424102505101	136-097-22DDC	041	10130204	--	08-19-82	--	120	--	1170	1190
463425102465501	136-096-19DDD	041	10130204	125SNLB	08-25-67	--	132	2698	864	--
463443101063201	136-083-22CCB	059	10130206	125CBLD	07-06-72	--	315	--	1760	--
463503101060401	136-083-22BDD1	059	10130206	125CBLD	07-06-72	--	286	--	2160	--
463503101060402	136-083-22BDD2	059	10130206	125CBLD	07-06-72	--	290	--	2110	--
463503101060403	136-083-22BDD3	059	10130206	125CBLD	07-06-72	--	284	--	2980	--
463507101092301	136-083-19ADB1	059	10130206	125CBLD	06-06-72	--	500	--	2150	--
463516102511901	136-097-15CDD	041	10130204	--	08-19-82	--	48	--	2500	2510
463529102503201	136-097-14CBC1	041	10130204	--	08-19-82	--	255	2790	1430	1490
463529102503202	136-097-14CBC2	041	10130204	--	08-19-82	--	263	--	1430	1490
463529102504101	136-097-15DAD	041	10130204	125SNLB	12-06-67	--	201	2758	1520	--
463659102574302	136-098-2CDC2	087	10130204	--	08-12-82	--	160	--	1780	1760
463704102275701	136-094-3DDD	041	10130204	125SNLB	11-23-68	--	224	2568	1990	--
463817102581001	137-097-31BDD	089	10130204	125SNLB	07-17-67	--	255	2755	1340	--
463841102344401	137-094-32BBB1	089	10130204	--	03-06-69	--	112	2670	625	--
463931102403302	137-095-28BAA2	089	10130204	125TGRV	06-30-67	--	500	2686	1700	--
463936103062601	137-099-24DDD	089	10130204	125SNLB	06-09-69	--	224	2722	2540	--
463939102341502	137-094-20CDD2	089	10130204	125SNLB	03-06-69	--	40	2633	1190	--

Site number	Date	pH, field (stand- ard units)	pH, lab (stand- ard units)	Temper- ature, water (degrees Celsius)	Color (plati- num cobalt scale)	Hard- ness, total (mg/L as CaCO <sub>3</sub> )	Noncar- bonate hard- ness, total (mg/L as CaCO <sub>3</sub> )	Alka- linity, field (mg/L as CaCO <sub>3</sub> )	Alka- linity, lab (mg/L as CaCO <sub>3</sub> )	Solids, sum of constit- uents, dis- solved (mg/L)	Solids, residue at 105 degrees Celsius, total (mg/L)
463232103001901	07-02-75	7.8	--	11.0	--	130	0	--	--	1700	--
463238102542701	08-19-82	7.4	7.9	13.5	--	160	--	--	514	1270	--
463239102522501	06-20-67	7.9	--	9.0	--	130	0	--	--	1290	--
463245100441101	10-12-73	8.0	--	8.5	--	280	0	--	--	1400	--
463250101083501	06-05-72	7.4	--	11.0	--	1300	690	--	--	1920	--
463258102302201	08-21-67	7.3	--	10.5	--	6000	5900	--	--	10900	--
463301102353701	03-20-56	--	--	--	--	26	--	--	--	1370	--
463318103021901	07-22-75	8.5	--	14.0	--	19	0	--	--	1290	--
463320102212802	06-01-69	7.5	--	--	--	360	69	--	--	604	--
463338103042001	10-28-76	8.8	--	12.0	--	20	0	--	--	1140	--
463345101042001	06-05-72	7.9	--	7.0	--	5000	4300	--	--	9780	--
463410103150601	08-12-82	7.0	7.8	9.0	--	330	--	--	395	739	--
463424102505101	08-19-82	7.7	7.9	16.0	--	51	--	--	292	751	--
463425102465501	08-25-67	7.8	--	--	--	420	200	--	--	590	--
463443101063201	07-06-72	7.9	--	9.0	--	13	0	--	--	1160	--
463503101060401	07-06-72	8.1	--	--	--	21	0	--	--	1450	--
463503101060402	07-06-72	7.9	--	4.5	--	62	0	--	--	1470	--
463503101060403	07-06-72	7.7	--	9.0	--	160	0	--	--	2150	--
463507101092301	06-06-72	8.0	--	10.5	--	12	0	--	--	1340	--
463516102511901	08-19-82	6.7	7.3	10.0	--	1400	--	--	541	1470	--
463529102503201	08-19-82	8.2	8.5	13.0	--	15	--	--	585	896	--
463529102503202	08-19-82	8.2	8.5	13.0	--	15	--	--	585	896	--
463529102504101	12-06-67	8.2	--	7.0	100	38	0	--	--	987	--
463659102574302	08-12-82	8.0	8.5	17.0	--	29	--	--	658	1150	--
463704102275701	11-23-68	7.9	--	8.5	--	190	0	--	--	1350	--
463817102581001	07-17-67	8.2	--	9.5	90	21	0	--	--	886	--
463841102344401	03-06-69	7.9	--	--	20	280	110	--	--	304	--
463931102403302	06-30-67	8.2	--	10.0	50	20	0	--	--	1060	--
463936103062601	06-09-69	8.4	--	10.5	900	160	0	--	--	1720	--
463939102341502	03-06-69	7.8	--	8.5	10	610	430	--	--	904	--

Site number	Date	Solids, residue at 180 degrees Celsius, dissolved (mg/L)	Solids, dissolved (tons per acre-foot)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium (percent)	Sodium adsorption ratio	Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO <sub>3</sub> )
463232103001901	07-02-75	1660	2.26	36	9.7	580	90	22	--	5.1	950
463238102542701	08-19-82	1270	1.73	38	15	380	84	13	--	5.1	--
463239102522501	06-20-67	1290	1.75	29	15	430	87	16	--	4.3	670
463245100441101	10-12-73	1450	1.97	70	26	400	75	10	--	6.0	720
463250101083501	06-05-72	1840	2.50	230	170	130	18	2	--	9.4	710
463258102302201	08-21-67	11700	15.9	480	1200	1100	29	6	--	21	120
463301102353701	03-20-56	--	--	--	--	--	--	--	--	--	--
463318103021901	07-22-75	1350	1.84	2.7	3.0	540	98	54	--	2.1	1390
463320102212802	06-01-69	646	0.88	91	33	63	27	1	--	4.5	360
463338103042001	10-28-76	1150	1.56	2.6	3.3	460	98	45	--	1.9	980
463345101042001	06-05-72	10200	13.9	400	980	1200	34	7	--	9.5	930
463410103150601	08-12-82	741	1.01	67	40	140	47	3	--	5.6	--
463424102505101	08-19-82	764	1.04	11	5.7	240	90	15	--	5.7	--
463425102465501	08-25-67	600	0.82	120	30	33	14	0.7	--	3.8	270
463443101063201	07-06-72	1210	1.65	3.3	1.2	440	98	53	--	1.3	810
463503101060401	07-06-72	1450	1.97	5.6	1.7	510	98	48	--	1.6	680
463503101060402	07-06-72	1430	1.94	5.1	12	500	94	28	--	1.6	740
463503101060403	07-06-72	2060	2.80	37	16	720	91	25	--	3.7	1070
463507101092301	06-06-72	1360	1.85	3.5	0.90	550	99	68	--	1.8	1150
463516102511901	08-19-82	1880	2.56	360	120	29	4	0.3	--	5.1	--
463529102503201	08-19-82	940	1.28	3.7	1.5	340	98	38	--	2.3	--
463529102503202	08-19-82	940	1.28	3.7	1.5	340	98	38	--	2.3	--
463529102504101	12-06-67	1000	1.36	9.6	3.4	350	95	25	--	3.6	540
463659102574302	08-12-82	1150	1.56	7.1	2.7	420	97	34	--	2.2	--
463704102275701	11-23-68	1350	1.84	47	18	390	81	12	--	6.4	410
463817102581001	07-17-67	876	1.19	5.6	1.7	330	97	31	--	2.7	620
463841102344401	03-06-69	390	0.53	77	21	15	10	0.4	--	7.4	210
463931102403302	06-30-67	1070	1.46	5.2	1.7	440	98	43	--	2.5	1080
463936103062601	06-09-69	1670	2.27	8.0	35	570	88	19	--	2.5	730
463939102341502	03-06-69	948	1.29	160	51	48	14	0.8	--	12	220

Site number	Date	Carbonate (mg/L as CO <sub>3</sub> )	Carbon dioxide, dis- solved (mg/L as CO <sub>2</sub> )	Sulfate, dis- solved (mg/L as SO <sub>4</sub> )	Chloride, dis- solved (mg/L as Cl)	Fluoride, dis- solved (mg/L as F)	Silica, dis- solved (mg/L as SiO <sub>2</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as N)	Nitro- gen, nitrate, total (mg/L as NO <sub>3</sub> )	Nitro- gen, nitrate, dis- solved (mg/L as NO <sub>3</sub> )	Boron, dis- solved (µg/L as B)
463232103001901	07-02-75	0	24	580	4.0	1.5	9.2	0.230	--	1.0	630
463238102542701	08-19-82	--	--	500	4.5	0.50	11	--	--	--	1100
463239102522501	06-20-67	0	--	470	6.5	1.1	11	--	--	1.0	620
463245100441101	10-12-73	0	12	510	7.4	0.60	27	0.230	--	1.0	1400
463250101083501	06-05-72	0	45	960	5.9	0.10	17	0.230	--	1.0	540
463258102302201	08-21-67	0	--	8000	23	0.0	--	--	--	0.0	930
463301102353701	03-20-56	--	--	--	--	--	--	--	--	--	1300
463318103021901	07-22-75	25	7.3	6.2	14	1.5	5.9	0.900	--	4.0	1500
463320102212802	06-01-69	0	18	210	2.5	0.20	24	0.230	--	1.0	0
463338103042001	10-28-76	47	2.7	120	9.1	4.8	5.1	0.230	--	1.0	<20
463345101042001	06-05-72	0	19	6400	150	0.70	14	38.0	--	170	540
463410103150601	08-12-82	--	--	220	9.2	0.50	19	--	--	--	120
463424102505101	08-19-82	--	--	300	1.9	0.20	10	--	--	--	570
463425102465501	08-25-67	0	--	260	2.5	0.20	9.1	--	--	2.5	40
463443101063201	07-06-72	0	16	300	0.0	1.9	11	0.230	--	1.0	2000
463503101060401	07-06-72	0	8.6	580	0.0	0.50	11	0.110	--	0.50	1300
463503101060402	07-06-72	0	15	570	0.0	0.60	11	0.00	--	0.0	1300
463503101060403	07-06-72	0	34	830	0.60	0.10	13	0.230	--	1.0	1100
463507101092301	06-06-72	0	18	61	140	3.0	11	0.230	--	1.0	3100
463516102511901	08-19-82	--	--	450	170	0.20	13	--	--	--	90
463529102503201	08-19-82	--	--	180	5.8	3.5	7.8	--	--	--	580
463529102503202	08-19-82	--	--	180	5.8	3.5	7.8	--	--	--	580
463529102504101	12-06-67	0	--	330	12	1.5	7.3	--	--	2.0	340
463659102574302	08-12-82	--	--	300	9.4	2.9	9.6	--	--	--	770
463704102275701	11-23-68	0	--	650	26	0.70	7.7	--	--	17	310
463817102581001	07-17-67	0	--	230	1.5	3.1	5.3	--	--	0.0	590
463841102344401	03-06-69	0	--	42	26	0.20	15	--	--	82	40
463931102403302	06-30-67	0	--	52	8.6	5.8	8.1	--	--	0.0	590
463936103062601	06-09-69	17	--	710	6.1	6.7	7.7	--	--	0.0	220
463939102341502	03-06-69	0	--	490	14	0.50	14	--	--	0.0	0

Site number	Date	Iron, dis- solved (µg/L as Fe)	Lead, dis- solved (µg/L as Pb)	Lithium, dis- solved (µg/L as Li)	Manga- nese, dis- solved (µg/L as Mn)	Mercury, dis- solved (µg/L as Hg)	Molyb- denum, dis- solved (µg/L as Mo)	Selen- ium, dis- solved (µg/L as Se)	Stron- tium, dis- solved (µg/L as Sr)	Vana- dium, dis- solved (µg/L as V)	Zinc, dis- solved (µg/L as Zn)
463232103001901	07-02-75	730	--	--	160	--	--	--	--	--	--
463238102542701	08-19-82	1500	--	--	160	--	--	<1	--	--	--
463239102522501	06-20-67	200	--	--	--	--	--	--	--	--	--
463245100441101	10-12-73	100	--	--	140	--	--	--	--	--	--
463250101083501	06-05-72	44000	--	--	400	--	--	--	--	--	--
463258102302201	08-21-67	52000	--	--	--	--	--	--	--	--	--
463301102353701	03-20-56	--	--	--	--	--	--	--	--	--	--
463318103021901	07-22-75	400	--	--	<10	--	--	--	--	--	--
463320102212802	06-01-69	--	--	--	--	--	--	--	--	--	--
463338103042001	10-28-76	2400	--	--	30	--	--	--	--	--	--
463345101042001	06-05-72	310	--	--	80	--	--	--	--	--	--
463410103150601	08-12-82	77	--	--	110	--	--	1	--	--	--
463424102505101	08-19-82	890	--	--	56	--	--	<1	--	--	--
463425102465501	08-25-67	2800	--	--	--	--	--	--	--	--	--
463443101063201	07-06-72	160	--	--	30	--	--	--	--	--	--
463503101060401	07-06-72	90	--	--	20	--	--	--	--	--	--
463503101060402	07-06-72	180	--	--	20	--	--	--	--	--	--
463503101060403	07-06-72	900	--	--	90	--	--	--	--	--	--
463507101092301	06-06-72	40	--	--	0	--	--	--	--	--	--
463516102511901	08-19-82	1300	--	--	70	--	--	64	--	--	--
463529102503201	08-19-82	66	--	--	9	--	--	<1	--	--	--
463529102503202	08-19-82	66	--	--	9	--	--	<1	--	--	--
463529102504101	12-06-67	1100	--	--	--	--	--	--	--	--	--
463659102574302	08-12-82	96	--	--	17	--	--	<1	--	--	--
463704102275701	11-23-68	720	--	--	--	--	--	--	--	--	--
463817102581001	07-17-67	2500	--	--	--	--	--	--	--	--	--
463841102344401	03-06-69	0	--	--	--	--	--	--	--	--	--
463931102403302	06-30-67	340	--	--	--	--	--	--	--	--	--
463936103062601	06-09-69	510	--	--	--	--	--	--	--	--	--
463939102341502	03-06-69	1500	--	--	--	--	--	--	--	--	--

**Table 5.** Summary of ground-water quality and periodic ground-water level data obtained from the U.S. Geological Survey for sites where multiple water-quality samples were collected

[Certain properties or constituents may be listed more than once; however, no distinction is made between field and laboratory values]

### Abbreviations and symbols

ft, feet  
g/kg, grams per kilogram  
JCU, Jackson candle unit  
LSD, land surface datum  
mg/kg, milligrams per kilogram  
mg/L, milligrams per liter  
mm, millimeter  
NGVD, National Geodetic Vertical Datum  
NTU, nephelometric turbidity unit  
pCi/L, picocurie per liter  
µg/g, micrograms per gram  
µg/L, micrograms per liter  
µS/cm, microsiemens per centimeter at 25 degrees Celsius  
--, no data

### County code

001, Adams County  
011, Bowman County  
037, Grant County  
041, Hettinger County  
059, Morton County  
085, Sioux County  
087, Slope County

### Geologic unit

112	Pleistocene
125	Paleocene
211	Upper Cretaceous
BGFV	Buried glaciofluvial deposits
CNBL	Cannonball Member of Fort Union Formation
EMCK	Elm Creek aquifer
FXHL	Fox Hills Sandstone
HCFH	Hell Creek Formation-Fox Hills Sandstone
HLCK	Hell Creek Formation
HRMN	Harmon lignite aquifer
LDLW	Ludlow Member of Fort Union Formation
SNLB	Sentinel Butte Member of Fort Union Formation
TGRV	Tongue River Member of Fort Union Formation
TRVL	Tongue River-Ludlow Members of Fort Union Formation

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460047101333801; local identifier, 129-087-10BBC; county code, 037.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 2060.00 feet.

Summary of water-quality data, November 15, 1972, through July 27, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sampling depth (feet)	1	361.00	361.00	--	--	--	--	--
Water temperature (degrees Celsius)	13	14.00	6.00	10.61	1.84	12.00	10.50	10.00
Barometric pressure (mm of Hg)	4	756.00	756.00	--	--	--	--	--
Agency analyzing sample (code number)	5	80020.00	38002.00	71616.40	18791.02	80020.00	80020.00	80020.00
Color (platinum cobalt scale)	1	7.00	7.00	--	--	--	--	--
Oxidation reduction potential (millivolts)	8	752.00	709.00	740.38	17.41	751.50	748.00	731.50
Specific conductance (µS/cm at 25 degrees Celsius)	13	2050.00	1950.00	2020.77	32.26	2050.00	2030.00	2010.00
Oxygen, dissolved (mg/L)	8	10.20	5.50	8.04	1.69	9.40	8.20	6.70
Oxygen, dissolved (percent saturation)	4	100.40	51.79	--	--	--	--	--
pH, water, whole, field (standard units)	11	9.20	8.10	8.54	0.30	8.50	8.48	8.40
pH, water, whole, laboratory (standard units)	8	9.10	8.30	8.51	0.29	8.65	8.40	8.30
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	11	12.00	0.90	5.05	2.84	5.80	4.70	4.60
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	13	795.00	690.00	754.43	24.02	760.00	754.00	749.00
Alkalinity, carbonate (mg/L as CaCO <sub>3</sub> )	8	751.00	744.00	749.00	2.20	750.50	749.00	749.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	13	970.00	881.00	897.69	23.94	906.00	891.00	883.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	13	21.00	0.00	11.33	6.35	15.40	11.70	6.00
Nitrogen, ammonia, dissolved (mg/L as N)	4	0.73	0.21	--	--	--	--	--
Nitrogen, nitrite, dissolved (mg/L as N)	4	0.02	0.02	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	11	0.23	0.00	0.15	0.09	0.23	0.23	0.07
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	4	0.09	0.09	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	4	0.43	0.43	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.15	0.15	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	4	0.14	0.14	--	--	--	--	--
Carbon, organic, total (mg/L as C)	4	26.00	9.00	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	4	8.10	3.10	--	--	--	--	--
Carbon, organic, suspended, total (mg/L as C)	4	0.10	0.00	--	--	--	--	--
Cyanide, total (mg/L as Cn)	1	0.00	0.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	13	13.67	7.16	10.46	1.97	11.13	10.30	9.03
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Calcium, dissolved (mg/L as Ca)	13	3.40	2.30	2.97	0.37	3.20	3.20	2.70
Magnesium, dissolved (mg/L as Mg)	13	1.50	0.30	0.72	0.38	0.90	0.50	0.50
Sodium, dissolved (mg/L as Na)	13	510.00	470.00	489.23	11.88	500.00	490.00	480.00

## Summary of water-quality data, November 15, 1972, through July 27, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sodium adsorption ratio	13	77.43	57.68	66.93	6.78	74.81	65.24	63.35
Sodium (percent)	13	99.18	98.37	98.82	0.27	99.07	98.86	98.74
Potassium, dissolved (mg/L as K)	13	3.20	1.10	1.82	0.91	3.10	1.30	1.20
Chloride, dissolved (mg/L as Cl)	13	240.00	220.00	229.00	7.62	230.00	230.00	220.00
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	9	21.00	0.00	4.58	7.30	4.90	1.60	0.00
Fluoride, dissolved (mg/L as F)	13	3.70	2.30	2.95	0.34	3.20	2.90	2.70
Silica, dissolved (mg/L as SiO <sub>2</sub> )	13	11.00	9.00	10.02	0.63	10.00	9.90	9.70
Arsenic, dissolved (μg/L as As)	5	2.00	0.00	0.60	0.89	1.00	0.00	0.00
Barium, dissolved (μg/L as Ba)	4	150.00	100.00	--	--	--	--	--
Boron, dissolved (μg/L as B)	13	2700.00	1400.00	2076.92	439.99	2400.00	2200.00	1600.00
Cadmium, dissolved (μg/L as Cd)	4	1.00	0.00	--	--	--	--	--
Chromium, dissolved (μg/L as Cr)	4	10.00	10.00	--	--	--	--	--
Copper, dissolved (μg/L as Cu)	5	13.00	3.00	7.20	3.70	8.00	6.00	6.00
Iron, dissolved (μg/L as Fe)	12	2000.00	70.00	390.00	513.99	315.00	275.00	190.00
Lead, dissolved (μg/L as Pb)	4	6.00	0.00	--	--	--	--	--
Manganese, dissolved (μg/L as Mn)	12	40.00	0.00	15.00	10.87	20.00	10.00	10.00
Molybdenum, dissolved (μg/L as Mo)	5	12.00	9.00	10.20	1.30	11.00	10.00	9.00
Strontium, dissolved (μg/L as Sr)	5	130.00	90.00	100.00	17.32	100.00	90.00	90.00
Vanadium, dissolved (μg/L as V)	1	5.60	5.60	--	--	--	--	--
Zinc, dissolved (μg/L as Zn)	5	70.00	30.00	48.00	17.89	60.00	50.00	30.00
Aluminum, dissolved (μg/L as Al)	5	10.00	0.00	8.00	4.47	10.00	10.00	10.00
Lithium, dissolved (μg/L as Li)	5	70.00	60.00	68.00	4.47	70.00	70.00	70.00
Selenium, dissolved (μg/L as Se)	5	3.00	0.00	0.60	1.34	0.00	0.00	0.00
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	13	1249.00	1130.00	1194.54	28.01	1210.00	1200.00	1180.00
Solids, sum of constituents, dissolved (mg/L)	13	1230.00	1137.00	1195.04	23.94	1208.00	1194.59	1191.09
Solids, dissolved (tons per acre-foot)	9	1.70	1.54	1.62	0.04	1.63	1.62	1.61
Hydroxide, water, whole, fixed endpoint titration, field (mg/L as OH)	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nitrogen, ammonia, dissolved (mg/L as NH <sub>4</sub> )	4	0.94	0.27	--	--	--	--	--
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>2</sub> )	11	1.00	0.00	0.66	0.40	1.00	1.00	0.31
Nitrogen, nitrite, dissolved (mg/L as NO <sub>2</sub> )	4	0.07	0.07	--	--	--	--	--
Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	1	15.00	15.00	--	--	--	--	--
Mercury, dissolved (μg/L as Hg)	4	0.10	0.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	2060.00	2060.00	--	--	--	--	--
Depth of well, total (feet)	10	361.00	343.00	346.60	7.59	343.00	343.00	343.00
Depth below land surface, water level (feet)	8	106.90	106.76	106.83	0.08	106.90	106.83	106.76
Specific conductance (μS/cm at 25 degrees Celsius)	8	2050.00	1920.00	2008.75	40.51	2035.00	2010.00	2005.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	8	790.00	690.00	751.25	28.50	765.00	750.00	750.00



Site number, 460047101333801

Summary of water-quality data, November 15, 1972, through July 27, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Bicarbonate, titration to pH 4.5, laboratory (mg/L as HCO <sub>3</sub> )	4	890.00	890.00	--	--	--	--	--
Carbonate, titration to pH 8.3, laboratory (mg/L as CO <sub>3</sub> )	4	15.00	10.00	--	--	--	--	--
Alkalinity, carbonate incremental titration, field (mg/L as CaCO <sub>3</sub> )	8	788.00	685.00	749.75	29.90	763.00	751.00	748.50
Bicarbonate, incremental titration, field (mg/L as HCO <sub>3</sub> )	8	941.00	831.00	893.00	32.12	909.50	889.50	887.00
Carbonate, incremental titration, field (mg/L as CO <sub>3</sub> )	8	14.00	1.90	10.15	4.06	14.00	9.32	9.31
Hydroxide, incremental titration, field (mg/L as OH)	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460056102061002; local identifier, 129-091-07AAA2; county code, 001.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125LDLW.

DATUM.--Altitude of land surface datum is 2422.00 feet.

Summary of water-quality data, September 28, 1971, through August 9, 1993

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	1	9.50	9.50	--	--	--	--	--
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	1	38002.00	38002.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	2	2630.00	2270.00	--	--	--	--	--
pH, water, whole, field (standard units)	1	8.60	8.60	--	--	--	--	--
pH, water, whole, laboratory (standard units)	1	8.54	8.54	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	716.00	716.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	26.00	26.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	2	44.38	35.43	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	9.00	8.70	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	5.50	3.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	580.00	527.00	--	--	--	--	--
Sodium adsorption ratio	2	42.77	34.43	--	--	--	--	--
Sodium (percent)	2	96.94	95.99	--	--	--	--	--
Potassium, dissolved (mg/L as K)	2	3.90	2.80	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	7.00	3.10	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	2	920.00	529.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	1.40	1.10	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	2	8.90	6.90	--	--	--	--	--
Boron, dissolved (µg/L as B)	2	1500.00	1100.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	2	10.00	0.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	2	40.00	20.00	--	--	--	--	--
Molybdenum, dissolved (µg/L as Mo)	1	1.00	1.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	1	520.00	520.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	1	60.00	60.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	1740.00	1470.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	1762.88	1465.98	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	2.37	2.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	1	2.50	2.50	--	--	--	--	--
Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	1	12.00	12.00	--	--	--	--	--
Mercury, dissolved (µg/L as Hg)	1	0.10	0.10	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	2422.00	2422.00	--	--	--	--	--

Summary of water-quality data, September 28, 1971, through August 9, 1993--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Depth of well, total (feet)	1	186.00	186.00	--	--	--	--	--
Depth below land surface, water level (feet)	1	92.52	92.52	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	1	2510.00	2510.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	1	384.00	384.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460155101495501; local identifier, 130-089-33CCB; county code, 037.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, November 10, 1971, through February 10, 1972

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	4	1.00	0.00	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	4	3180.00	1850.00	--	--	--	--	--
pH, water, whole, field (standard units)	4	8.40	8.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	4	663.00	282.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	4	9.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	4	0.23	0.23	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	4	0.00	0.00	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	4	0.00	0.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	4	976.86	480.39	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	4	449.00	105.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	4	185.00	89.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	4	125.00	56.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	4	421.00	240.00	--	--	--	--	--
Sodium adsorption ratio	4	7.22	4.77	--	--	--	--	--
Sodium (percent)	4	59.59	48.05	--	--	--	--	--
Potassium, dissolved (mg/L as K)	4	11.00	9.20	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	4	13.00	6.90	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	4	1320.00	652.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	4	0.50	0.30	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	4	6.40	2.20	--	--	--	--	--
Boron, dissolved ( $\mu$ g/L as B)	4	1500.00	180.00	--	--	--	--	--
Iron, dissolved ( $\mu$ g/L as Fe)	4	140.00	0.00	--	--	--	--	--
Manganese, dissolved ( $\mu$ g/L as Mn)	4	30.00	10.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	4	2530.00	1340.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	4	2409.50	1267.90	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	4	3.44	1.82	--	--	--	--	--
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	4	1.00	1.00	--	--	--	--	--
Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	4	0.00	0.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460159101500401; local identifier, 130-089-32DDA; county code, 037.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 2165.00 feet.

Summary of water-quality data, November 14, 1972, through June 15, 1978

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	3	13.00	7.00	--	--	--	--	--
Agency analyzing sample (code number)	1	38002.00	38002.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	3	2600.00	2000.00	--	--	--	--	--
pH, water, whole, field (standard units)	1	8.00	8.00	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	14.00	14.00	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	3	747.00	711.00	--	--	--	--	--
Alkalinity, methyl orange (mg/L)	1	747.00	747.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	3	890.00	847.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	3	10.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	2	0.23	0.23	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	3	13.18	9.30	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	3	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	3	3.30	2.90	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	3	1.20	0.50	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	3	620.00	480.00	--	--	--	--	--
Sodium adsorption ratio	3	87.31	57.53	--	--	--	--	--
Sodium (percent)	3	99.15	98.59	--	--	--	--	--
Potassium, dissolved (mg/L as K)	3	1.60	1.40	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	3	420.00	230.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	3	9.40	2.10	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	3	3.50	2.70	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	3	9.20	9.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	3	2400.00	1880.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	2	5100.00	40.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	3	80.00	20.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	1580.00	1170.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	3	1509.71	1184.21	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	3	2.15	1.59	--	--	--	--	--
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	1	1.00	1.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	2	1.00	1.00	--	--	--	--	--
Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	1	14.00	14.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	2165.00	2165.00	--	--	--	--	--
Depth of well, total (feet)	1	543.00	543.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460244101272702; local identifier, 130-086-28CCCC2; county code, 085.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--211HLCK.

DATUM.--Altitude of land surface datum is 2062.00 feet.

Summary of water-quality data, June 10, 1973, through June 29, 1978

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown	
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50 25
Water temperature (degrees Celsius)	3	11.00	10.00	--	--	--	--
Agency analyzing sample (code number)	1	38002.00	38002.00	--	--	--	--
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	3	1900.00	1800.00	--	--	--	--
pH, water, whole, field (standard units)	1	8.10	8.10	--	--	--	--
Carbon dioxide, dissolved (mg/L as $\text{CO}_2$ )	1	10.00	10.00	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as $\text{CaCO}_3$ )	3	694.00	673.00	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{HCO}_3$ )	3	820.00	805.00	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{CO}_3$ )	3	18.00	0.00	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	3	0.34	0.09	--	--	--	--
Hardness, total (mg/L as $\text{CaCO}_3$ )	3	19.75	14.11	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as $\text{CaCO}_3$ )	3	0.00	0.00	--	--	--	--
Calcium, dissolved (mg/L as Ca)	3	5.60	4.00	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	3	2.10	1.00	--	--	--	--
Sodium, dissolved (mg/L as Na)	3	480.00	440.00	--	--	--	--
Sodium adsorption ratio	3	55.62	43.09	--	--	--	--
Sodium (percent)	3	98.54	97.71	--	--	--	--
Potassium, dissolved (mg/L as K)	3	2.40	1.10	--	--	--	--
Chloride, dissolved (mg/L as Cl)	3	45.00	39.00	--	--	--	--
Sulfate, dissolved (mg/L as $\text{SO}_4$ )	3	260.00	240.00	--	--	--	--
Fluoride, dissolved (mg/L as F)	3	3.20	2.70	--	--	--	--
Silica, dissolved (mg/L as $\text{SiO}_2$ )	3	19.00	16.00	--	--	--	--
Boron, dissolved ( $\mu\text{g}/\text{L}$ as B)	3	3200.00	2000.00	--	--	--	--
Iron, total ( $\mu\text{g}/\text{L}$ as Fe)	1	50.00	50.00	--	--	--	--
Iron, dissolved ( $\mu\text{g}/\text{L}$ as Fe)	2	380.00	230.00	--	--	--	--
Manganese, dissolved ( $\mu\text{g}/\text{L}$ as Mn)	1	50.00	50.00	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	1220.00	1180.00	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	3	1223.72	1163.50	--	--	--	--
Solids, dissolved (tons per acre-foot)	3	1.66	1.61	--	--	--	--
Nitrogen, nitrate, total (mg/L as $\text{NO}_3$ )	1	0.40	0.40	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as $\text{NO}_3$ )	3	1.50	0.40	--	--	--	--
Residual, sodium, carbonate (mg/L as $\text{CaCO}_3$ )	1	13.00	13.00	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	2062.00	2062.00	--	--	--	--
Depth of well, total (feet)	1	210.00	210.00	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460246101041203; local identifier, 130-083-28DCD3; county code, 085.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--125CNBL.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, 1961 through November 12, 1965

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	2	1710.00	1710.00	--	--	--	--	--
pH, water, whole, field (standard units)	2	7.90	7.90	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{HCO}_3$ )	2	726.00	595.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{CO}_3$ )	2	0.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	2	0.23	0.23	--	--	--	--	--
Hardness, total (mg/L as $\text{CaCO}_3$ )	2	15.00	15.00	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as $\text{CaCO}_3$ )	1	0.00	0.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	1	432.00	432.00	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	10.00	10.00	--	--	--	--	--
Sulfate, dissolved (mg/L as $\text{SO}_4$ )	2	330.00	330.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g}/\text{L}$ as Fe)	2	400.00	400.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	1090.00	1090.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	1110.00	964.00	--	--	--	--	--
Nitrogen, nitrate, total (mg/L as $\text{NO}_3$ )	2	1.00	1.00	--	--	--	--	--
Depth of well, total (feet)	2	200.00	200.00	--	--	--	--	--
Depth to bottom of sample interval (feet below LSD)	1	200.00	200.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460449101200701; local identifier, 130-085-17DAA; county code, 085.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 1910.00 feet.

Summary of water-quality data, November 16, 1972, through July 7, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	13	10.20	5.50	8.53	1.30	10.00	8.00	8.00
Agency analyzing sample (code number)	7	80020.00	38002.00	74017.43	15881.31	80020.00	80020.00	80020.00
Oxidation reduction potential (millivolts)	10	763.00	752.00	759.30	4.42	762.00	761.50	754.00
Specific conductance (µS/cm at 25 degrees Celsius)	13	2200.00	2020.00	2111.54	47.41	2140.00	2120.00	2080.00
Oxygen, dissolved (mg/L)	10	10.30	1.70	4.58	3.33	7.80	2.90	2.40
pH, water, whole, field (standard units)	11	8.50	8.10	8.34	0.11	8.42	8.30	8.30
pH, water, whole, laboratory (standard units)	10	8.50	8.10	8.30	0.12	8.40	8.30	8.20
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	11	11.00	4.50	6.59	1.78	7.10	6.90	5.24
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	13	767.00	640.00	712.46	36.25	740.00	726.00	690.00
Alkalinity, carbonate (mg/L as CaCO <sub>3</sub> )	10	734.00	707.00	724.00	7.20	727.00	725.00	723.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	13	935.00	839.00	873.39	21.60	876.00	874.00	865.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	13	12.60	0.00	6.76	3.92	9.78	6.99	4.66
Nitrogen, ammonia, dissolved (mg/L as N)	5	0.91	0.67	0.81	0.10	0.90	0.85	0.74
Nitrogen, nitrate, dissolved (mg/L as N)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nitrogen, nitrite, dissolved (mg/L as N)	12	0.23	0.00	0.13	0.12	0.23	0.23	0.00
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	5	0.49	0.31	0.41	0.09	0.46	0.46	0.31
Phosphorus, orthophosphate, dissolved (mg/L as P)	5	0.16	0.10	0.13	0.03	0.15	0.15	0.10
Carbon, organic, total (mg/L as C)	6	25.00	8.90	15.98	5.54	19.00	15.00	13.00
Carbon, organic, dissolved (mg/L as C)	6	18.00	2.00	10.17	5.27	13.00	9.55	8.90
Carbon, organic, suspended, total (mg/L as C)	5	0.30	0.10	0.16	0.09	0.20	0.10	0.10
Hardness, total (mg/L as CaCO <sub>3</sub> )	13	18.14	10.86	14.49	2.53	15.86	15.18	12.36
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Calcium, dissolved (mg/L as Ca)	13	4.00	3.00	3.52	0.28	3.80	3.50	3.40
Magnesium, dissolved (mg/L as Mg)	13	2.10	0.40	1.38	0.52	1.70	1.60	1.00
Sodium, dissolved (mg/L as Na)	13	530.00	480.00	503.85	12.61	510.00	510.00	500.00
Sodium adsorption ratio	13	64.96	52.12	58.27	4.81	63.13	56.39	54.85
Sodium (percent)	13	98.83	97.98	98.43	0.31	98.75	98.39	98.19
Potassium, dissolved (mg/L as K)	13	3.90	1.20	2.39	1.12	3.70	1.70	1.50
Chloride, dissolved (mg/L as Cl)	13	290.00	250.00	276.92	12.51	290.00	270.00	270.00
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	13	11.00	0.50	3.84	3.39	4.80	3.00	0.80
Fluoride, dissolved (mg/L as F)	13	2.90	2.50	2.68	0.21	2.90	2.50	2.50



## Summary of water-quality data, November 16, 1972, through July 7, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Silica, dissolved (mg/L as SiO <sub>2</sub> )	13	16.00	9.70	14.21	1.66	15.00	15.00	14.00
Arsenic, dissolved (µg/L as As)	5	2.00	1.00	1.20	0.45	1.00	1.00	1.00
Barium, dissolved (µg/L as Ba)	3	0.00	0.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	13	2500.00	1300.00	2038.46	462.85	2400.00	2200.00	1600.00
Cadmium, dissolved (µg/L as Cd)	5	1.00	0.00	0.20	0.45	0.00	0.00	0.00
Chromium, dissolved (µg/L as Cr)	4	10.00	0.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	5	70.00	2.00	23.80	26.85	21.00	17.00	9.00
Iron, dissolved (µg/L as Fe)	12	4000.00	20.00	475.83	1158.04	70.00	55.00	45.00
Lead, dissolved (µg/L as Pb)	4	2.00	0.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	11	30.00	10.00	14.55	8.20	20.00	10.00	10.00
Molybdenum, dissolved (µg/L as Mo)	5	8.00	0.00	3.60	3.21	5.00	4.00	1.00
Strontium, dissolved (µg/L as Sr)	5	100.00	60.00	84.00	15.17	90.00	90.00	80.00
Zinc, dissolved (µg/L as Zn)	5	30.00	10.00	20.00	7.07	20.00	20.00	20.00
Aluminum, dissolved (µg/L as Al)	4	20.00	10.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	5	80.00	70.00	78.00	4.47	80.00	80.00	80.00
Selenium, dissolved (µg/L as Se)	4	2.00	0.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	13	1300.00	1200.00	1253.23	27.18	1267.00	1260.00	1240.00
Solids, sum of constituents, dissolved (mg/L)	13	1304.37	1180.81	1239.66	30.82	1256.26	1246.89	1231.15
Solids, dissolved (tons per acre-foot)	13	1.77	1.63	1.70	0.04	1.72	1.71	1.69
Hydroxide, water, whole, fixed endpoint titration, field (mg/L as OH)	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nitrogen, ammonia, dissolved (mg/L as NH <sub>4</sub> )	5	1.17	0.86	1.05	0.14	1.16	1.10	0.95
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	1	1.00	1.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	12	1.00	0.00	0.58	0.51	1.00	1.00	0.00
Nitrogen, nitrite, dissolved (mg/L as NO <sub>2</sub> )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	1	14.00	14.00	--	--	--	--	--
Mercury, dissolved (µg/L as Hg)	5	0.10	0.00	0.06	0.05	0.10	0.10	0.00
Elevation of land surface datum, LSD (feet NGVD)	1	1910.00	1910.00	--	--	--	--	--
Depth of well, total (feet)	11	245.00	245.00	245.00	0.00	245.00	245.00	245.00
Depth below land surface, water level (feet)	10	21.26	20.94	21.10	0.17	21.26	21.10	20.94
Potassium 40, dissolved (pCi/L as K40)	5	1.60	0.90	1.28	0.25	1.30	1.30	1.30
Specific conductance (µS/cm at 25 degrees Celsius)	10	2140.00	2070.00	2107.00	24.06	2130.00	2110.00	2090.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	10	740.00	640.00	706.00	37.18	740.00	710.00	690.00
Bicarbonate, titration to pH 4.5, laboratory (mg/L as HCO <sub>3</sub> )	5	890.00	880.00	888.00	4.47	890.00	890.00	890.00
Carbonate, titration to pH 8.3, laboratory (mg/L as CO <sub>3</sub> )	5	21.00	0.00	8.40	9.13	14.00	7.00	0.00
Alkalinity, carbonate incremental titration, field (mg/L as CaCO <sub>3</sub> )	10	739.00	640.00	705.10	36.25	738.00	709.50	689.00
Bicarbonate, incremental titration, field (mg/L as HCO <sub>3</sub> )	10	891.00	761.00	842.70	50.38	890.00	848.00	811.00
Carbonate, incremental titration, field (mg/L as CO <sub>3</sub> )	10	14.00	3.90	8.22	4.24	13.00	6.99	4.66
Hydroxide, incremental titration, field (mg/L as OH)	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460705103005301; local identifier, 130-099-01BBB; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125TRVL.

DATUM.-- Altitude of land surface datum is 2768.00 feet.

Summary of water-quality data, May 25, 1974, through July 23, 1991

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	24	14.00	6.20	8.51	1.79	8.85	7.85	7.40
Temperature, air (degrees Celsius)	13	28.00	5.00	20.31	6.56	23.00	22.00	19.00
Barometric pressure (mm of Hg)	12	700.00	682.00	689.83	5.47	693.00	690.00	685.00
Agency collecting sample (code number)	16	80020.00	1028.00	15839.00	31842.69	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	16	80020.00	38002.00	74767.75	14351.88	80020.00	80020.00	80020.00
Turbidity (JCU)	2	20.00	9.00	--	--	--	--	--
Color (platinum cobalt scale)	7	85.00	60.00	77.86	8.49	84.00	80.00	76.00
Specific conductance (µS/cm at 25 degrees Celsius)	1	2470.00	2470.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	24	4450.00	2080.00	2824.17	657.20	3100.00	2545.00	2330.00
Oxygen, dissolved (mg/L)	15	6.00	0.00	1.86	1.61	2.30	1.80	0.60
Oxygen, dissolved (percent saturation)	12	56.61	0.92	21.34	15.04	22.31	17.10	15.72
pH, water, whole, field (standard units)	24	9.00	8.00	8.50	0.23	8.60	8.50	8.30
pH, water, whole, laboratory (standard units)	16	8.70	8.10	8.36	0.21	8.55	8.30	8.15
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	11	11.00	1.70	3.69	2.74	4.90	2.50	2.00
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	10	568.00	320.00	500.10	70.13	548.00	507.50	491.00
Alkalinity, water, dissolved, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	2	552.00	537.00	--	--	--	--	--
Alkalinity, water, whole, total, incremental titration, field (mg/L as CaCO <sub>3</sub> )	1	547.00	547.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	8	692.00	390.00	583.00	95.58	648.50	594.00	548.50
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	8	40.00	0.00	12.00	14.28	17.50	7.00	3.50
Carbonate, water, whole, incremental titration, field (mg/L as CO <sub>3</sub> )	1	34.00	34.00	--	--	--	--	--
Bicarbonate, water, whole, incremental titration, field (mg/L as HCO <sub>3</sub> )	1	598.00	598.00	--	--	--	--	--
Carbonate, water, dissolved, incremental titration, field (mg/L as CO <sub>3</sub> )	2	34.00	34.00	--	--	--	--	--
Bicarbonate, water, dissolved, incremental titration, field (mg/L as HCO <sub>3</sub> )	2	604.00	595.00	--	--	--	--	--
Residue, total filterable, dried at 105 degrees Celsius (mg/L)	1	2200.00	2200.00	--	--	--	--	--
Residue, total nonfilterable (mg/L)	1	17.00	17.00	--	--	--	--	--
Nitrogen, total (mg/L as N)	3	3.02	1.32	--	--	--	--	--
Nitrogen, organic, total (mg/L as N)	3	2.41	0.84	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	3	0.50	0.41	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as N)	3	0.59	0.28	--	--	--	--	--
Nitrogen, nitrite, dissolved (mg/L as N)	3	0.10	0.03	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	3	3.00	1.30	--	--	--	--	--
Nitrogen, nitrite plus nitrate, total (mg/L as N)	3	0.02	0.01	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.02	0.02	--	--	--	--	--

## Summary of water-quality data, May 25, 1974, through July 23, 1991--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	7	0.31	0.00	0.12	0.13	0.25	0.03	0.03
Phosphorus, total (mg/L as P)	3	0.09	0.01	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.06	0.06	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	5	0.10	0.01	0.05	0.04	0.08	0.07	0.01
Carbon, organic, total (mg/L as C)	4	43.00	22.00	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	4	30.00	16.00	--	--	--	--	--
Carbon, inorganic total (mg/L as C)	2	100.00	85.00	--	--	--	--	--
Carbon, organic, suspended, total (mg/L as C)	4	2.40	0.60	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	24	446.30	33.11	104.67	83.86	108.62	80.00	62.31
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Calcium, dissolved (mg/L as Ca)	24	88.00	7.40	19.97	16.32	25.00	15.50	11.00
Magnesium, dissolved (mg/L as Mg)	24	55.00	3.50	13.22	10.79	15.50	9.85	6.80
Sodium, dissolved (mg/L as Na)	24	820.00	470.00	610.63	95.31	700.00	580.00	547.50
Sodium adsorption ratio	24	37.27	16.89	28.97	6.43	34.59	29.73	24.26
Sodium (percent)	24	96.58	79.50	92.63	3.91	94.85	93.94	91.64
Potassium, dissolved (mg/L as K)	24	11.00	3.80	5.75	1.39	6.35	5.45	5.00
Chloride, dissolved (mg/L as Cl)	24	110.00	6.10	25.26	25.50	33.00	15.00	9.10
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	24	1600.00	470.00	892.46	275.34	1100.00	820.00	706.50
Fluoride, dissolved (mg/L as F)	22	2.30	0.80	1.48	0.35	1.60	1.45	1.30
Silica, dissolved (mg/L as SiO <sub>2</sub> )	24	10.00	4.70	7.39	1.38	8.50	7.25	6.40
Arsenic, dissolved (µg/L as As)	8	2.00	1.00	1.13	0.35	1.00	1.00	1.00
Arsenic, suspended, total (µg/L as As)	5	3.00	1.00	2.00	1.00	3.00	2.00	1.00
Arsenic, total (µg/L as As)	5	4.00	2.00	3.00	1.00	4.00	3.00	2.00
Barium, dissolved (µg/L as Ba)	2	200.00	200.00	--	--	--	--	--
Barium, suspended, recoverable (µg/L as Ba)	3	0.00	0.00	--	--	--	--	--
Beryllium, suspended, recoverable (µg/L as Be)	5	10.00	0.00	4.00	5.48	10.00	0.00	0.00
Beryllium, total (µg/L as Be)	2	10.00	10.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	17	1500.00	780.00	1169.41	242.47	1400.00	1100.00	970.00
Cadmium, dissolved (µg/L as Cd)	2	2.00	0.00	--	--	--	--	--
Cadmium, suspended (µg/L as Cd)	2	9.00	9.00	--	--	--	--	--
Chromium, dissolved (µg/L as Cr)	2	4.00	0.00	--	--	--	--	--
Chromium, suspended (µg/L as Cr)	4	0.00	0.00	--	--	--	--	--
Cobalt, dissolved (µg/L as Co)	1	0.00	0.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	6	150.00	3.00	64.50	59.09	120.00	51.00	12.00
Copper, suspended (µg/L as Cu)	5	420.00	0.00	145.60	165.07	170.00	78.00	60.00
Copper, total (µg/L as Cu)	4	540.00	120.00	--	--	--	--	--
Iron, total (µg/L as Fe)	6	1700.00	1.50	1233.58	627.64	1600.00	1450.00	1200.00

## Summary of water-quality data, May 25, 1974, through July 23, 1991--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	23	1200.00	30.00	244.61	298.33	370.00	130.00	30.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	7	70.00	1.00	12.86	25.32	8.00	3.00	1.00
Lead, suspended ( $\mu\text{g/L}$ as Pb)	1	97.00	97.00	--	--	--	--	--
Manganese, suspended ( $\mu\text{g/L}$ as Mn)	5	60.00	0.00	26.00	26.08	40.00	30.00	0.00
Manganese, total ( $\mu\text{g/L}$ as Mn)	5	300.00	60.00	206.00	98.13	290.00	210.00	170.00
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	23	250.00	30.00	110.43	63.49	160.00	100.00	60.00
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	18	52.00	1.00	24.22	14.05	35.00	26.00	12.00
Molybdenum, suspended ( $\mu\text{g/L}$ as Mo)	5	4.00	0.00	2.40	1.67	4.00	2.00	2.00
Molybdenum, total ( $\mu\text{g/L}$ as Mo)	5	37.00	19.00	29.20	8.23	36.00	32.00	22.00
Nickel, dissolved ( $\mu\text{g/L}$ as Ni)	7	12.00	2.00	4.43	3.60	5.00	3.00	2.00
Nickel, suspended ( $\mu\text{g/L}$ as Ni)	1	98.00	98.00	--	--	--	--	--
Silver, dissolved ( $\mu\text{g/L}$ as Ag)	1	0.00	0.00	--	--	--	--	--
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	15	880.00	190.00	485.33	221.10	590.00	420.00	320.00
Strontium, suspended ( $\mu\text{g/L}$ as Sr)	3	20.00	0.00	--	--	--	--	--
Strontium, total ( $\mu\text{g/L}$ as Sr)	3	550.00	350.00	--	--	--	--	--
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	6	6.40	0.00	2.32	2.42	4.00	1.40	0.70
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	8	1400.00	40.00	618.75	484.19	940.00	515.00	300.00
Zinc, suspended ( $\mu\text{g/L}$ as Zn)	5	720.00	280.00	544.00	161.65	600.00	570.00	550.00
Zinc, total ( $\mu\text{g/L}$ as Zn)	5	2000.00	780.00	1216.00	480.92	1300.00	1100.00	900.00
Antimony dissolved ( $\mu\text{g/L}$ as Sb)	1	0.00	0.00	--	--	--	--	--
Aluminum, total ( $\mu\text{g/L}$ as Al)	5	800.00	130.00	334.00	273.28	300.00	300.00	140.00
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	5	40.00	10.00	22.00	13.04	30.00	20.00	10.00
Aluminum, suspended ( $\mu\text{g/L}$ as Al)	5	770.00	120.00	312.00	267.71	290.00	260.00	120.00
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	17	70.00	30.00	48.24	10.15	50.00	50.00	40.00
Lithium, suspended ( $\mu\text{g/L}$ as Li)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lithium, total ( $\mu\text{g/L}$ as Li)	5	60.00	30.00	46.00	11.40	50.00	50.00	40.00
Selenium, dissolved ( $\mu\text{g/L}$ as Se)	2	2.00	0.00	--	--	--	--	--
Selenium, suspended ( $\mu\text{g/L}$ as Se)	5	1.00	0.00	0.20	0.45	0.00	0.00	0.00
Selenium, total ( $\mu\text{g/L}$ as Se)	1	1.00	1.00	--	--	--	--	--
Beta, gross, suspended (pCi/L as Cs-137)	1	3.70	3.70	--	--	--	--	--
Radium 226, dissolved, radon method (pCi/L)	1	0.11	0.11	--	--	--	--	--
Alkalinity, water, dissolved, total, incremental titration, field (mg/L as $\text{CaCO}_3$ )	2	551.00	544.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	24	3100.00	1420.00	1941.67	395.31	2220.00	1775.00	1625.00
Solids, sum of constituents, dissolved (mg/L)	24	2936.67	1371.61	1879.57	377.11	2206.42	1737.07	1628.24
Solids, dissolved (tons per acre-foot)	24	4.22	1.93	2.64	0.54	3.02	2.41	2.21
Nitrogen, ammonia, dissolved (mg/L as $\text{NH}_4$ )	3	0.64	0.53	--	--	--	--	--
Nitrogen, nitrate, total (mg/L as $\text{NO}_3$ )	1	7.10	7.10	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as $\text{NO}_3$ )	2	1.00	0.02	--	--	--	--	--

Summary of water-quality data, May 25, 1974, through July 23, 1991--Continued

Water-quality constituent	Descriptive statistics						Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation		75	Median	25
Nitrogen, nitrite, dissolved (mg/L as NO <sub>2</sub> )	3	0.33	0.10	--	--		--	--	--
Bromide, dissolved (mg/L as Br)	3	0.10	0.10	--	--		--	--	--
Nitrogen, total (mg/L as NO <sub>3</sub> )	3	13.37	5.84	--	--		--	--	--
Mercury, dissolved (µg/L as Hg)	2	2.40	0.00	--	--		--	--	--
Mercury, suspended, recoverable (µg/L as Hg)	5	0.70	0.00	0.14	0.31		0.00	0.00	0.00
Mercury, total, recoverable (µg/L as Hg)	2	2.40	0.90	--	--		--	--	--
Depth of well, total (feet)	10	60.00	60.00	60.00	0.00		60.00	60.00	60.00
Depth below land surface, water level (feet)	14	28.18	23.90	25.92	1.35		27.21	25.77	24.86
Uranium, dissolved, direct fluorometric (pCi/L)	1	4.00	4.00	--	--		--	--	--
Alpha, gross radioactivity, suspended, total (µg/L as U natural)	1	2.90	2.90	--	--		--	--	--
Beta, gross, radioactivity, suspended, total (pCi/L as strontium/yttrium-90)	1	3.30	3.30	--	--		--	--	--
Carbon, 13/12 ratio per mil	3	-12.80	-13.20	--	--		--	--	--
Sulfur, 34/32 ratio per mil	3	-10.20	-12.20	--	--		--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	15	3630.00	2180.00	2713.33	410.85		3070.00	2570.00	2410.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	23	577.00	320.00	502.22	59.73		538.00	507.00	490.00
Bicarbonate, titration to pH 4.5, laboratory (mg/L as HCO <sub>3</sub> )	2	689.00	420.00	--	--		--	--	--
Carbonate, titration to pH 8.3, laboratory (mg/L as CO <sub>3</sub> )	2	8.00	7.00	--	--		--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460759101342801; local identifier, 131-087-28CDD; county code, 037.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125CNBL.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, March 9, 1970, through November 5, 1971

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	2	2400.00	2200.00	--	--	--	--	--
pH, water, whole, field (standard units)	2	8.30	8.20	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	1	554.00	554.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{HCO}_3$ )	1	616.00	616.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{CO}_3$ )	1	7.00	7.00	--	--	--	--	--
Nitrogen, nitrate, dissolved ( $\text{mg}/\text{L}$ as N)	2	11.30	9.04	--	--	--	--	--
Hardness, total ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	2	277.88	134.00	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	1	0.00	0.00	--	--	--	--	--
Calcium, dissolved ( $\text{mg}/\text{L}$ as Ca)	1	42.00	42.00	--	--	--	--	--
Magnesium, dissolved ( $\text{mg}/\text{L}$ as Mg)	1	42.00	42.00	--	--	--	--	--
Sodium, dissolved ( $\text{mg}/\text{L}$ as Na)	2	538.00	420.00	--	--	--	--	--
Sodium adsorption ratio	1	10.97	10.97	--	--	--	--	--
Sodium (percent)	1	76.38	76.38	--	--	--	--	--
Potassium, dissolved ( $\text{mg}/\text{L}$ as K)	1	3.80	3.80	--	--	--	--	--
Chloride, dissolved ( $\text{mg}/\text{L}$ as Cl)	2	5.90	2.30	--	--	--	--	--
Sulfate, dissolved ( $\text{mg}/\text{L}$ as $\text{SO}_4$ )	2	680.00	629.00	--	--	--	--	--
Fluoride, dissolved ( $\text{mg}/\text{L}$ as F)	1	1.00	1.00	--	--	--	--	--
Silica, dissolved ( $\text{mg}/\text{L}$ as $\text{SiO}_2$ )	1	11.00	11.00	--	--	--	--	--
Boron, dissolved ( $\mu\text{g}/\text{L}$ as B)	1	620.00	620.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g}/\text{L}$ as Fe)	2	620.00	0.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g}/\text{L}$ as Mn)	1	10.00	10.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved ( $\text{mg}/\text{L}$ )	2	1620.00	1510.00	--	--	--	--	--
Solids, sum of constituents, dissolved ( $\text{mg}/\text{L}$ )	2	1520.00	1511.62	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	1	2.05	2.05	--	--	--	--	--
Nitrogen, nitrate, total ( $\text{mg}/\text{L}$ as $\text{NO}_3$ )	2	50.00	40.00	--	--	--	--	--
Residual, sodium, carbonate ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	1	5.00	5.00	--	--	--	--	--
Depth of well, total (feet)	2	326.00	326.00	--	--	--	--	--
Depth to bottom of sample interval (feet below LSD)	1	326.00	326.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460830103044501; local identifier, 131-099-29ADD1; county code, 011.  
 HYDROLOGIC UNIT.--10130205.  
 GEOLOGIC UNIT.--125TRVL.  
 DATUM.--Altitude of land surface datum is 2796.00 feet.

Summary of water-quality data, December 10, 1975, through September 23, 1983

Water-quality constituent	Descriptive statistics						Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation		75	Median 50	25
Sampling depth (feet)	1	118.00	118.00	--	--	--	--	--	--
Water temperature (degrees Celsius)	7	12.50	4.00	7.66	2.49	--	7.72	7.50	7.10
Temperature, air (degrees Celsius)	1	22.00	22.00	--	--	--	--	--	--
Barometric pressure (mm of Hg)	1	686.00	686.00	--	--	--	--	--	--
Agency collecting sample (code number)	4	80020.00	1028.00	--	--	--	--	--	--
Agency analyzing sample (code number)	4	80020.00	1028.00	--	--	--	--	--	--
Flow rate, instantaneous (gallons per minute)	1	0.50	0.50	--	--	--	--	--	--
Color (platinum cobalt scale)	1	1400.00	1400.00	--	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	7	2220.00	1740.00	1960.00	210.32	--	2160.00	2000.00	1750.00
Oxygen, dissolved (mg/L)	4	1.40	0.00	--	--	--	--	--	--
pH, water, whole, field (standard units)	7	8.70	7.90	8.36	0.29	--	8.70	8.30	8.20
pH, water, whole, laboratory (standard units)	5	8.70	7.90	8.28	0.32	--	8.49	8.20	8.10
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	5	7.90	1.50	4.36	2.74	--	6.50	3.60	2.30
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	592.00	462.00	555.60	53.32	--	586.00	570.00	568.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	3	715.00	622.00	--	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	3	49.00	0.00	--	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	3	0.11	0.04	--	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	1	1.87	1.87	--	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	2	1.10	0.36	--	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	1	0.61	0.61	--	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	7	150.64	21.51	74.94	60.67	--	140.15	35.63	24.70
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	6	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	6	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00
Calcium, dissolved (mg/L as Ca)	7	27.00	4.40	14.24	10.78	--	26.00	8.00	5.00
Calcium, total, recoverable (mg/L as Ca)	1	4.40	4.40	--	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	7	20.00	2.50	9.43	8.11	--	18.00	3.80	2.70
Magnesium, total (mg/L as Mg)	1	2.50	2.50	--	--	--	--	--	--
Sodium, total, recoverable (mg/L as Na)	1	498.00	498.00	--	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	7	530.00	345.00	443.29	87.10	--	530.00	490.00	350.00
Sodium adsorption ratio	7	46.98	12.27	30.61	16.67	--	46.74	38.64	12.92
Sodium (percent)	7	97.66	81.86	91.28	7.53	--	97.60	96.57	83.26
Potassium, dissolved (mg/L as K)	7	13.00	3.10	7.30	4.45	--	12.00	4.20	3.70
Potassium, total (mg/L as K)	1	3.70	3.70	--	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	7	65.00	5.80	17.50	21.51	--	17.00	6.80	5.80

## Summary of water-quality data, December 10, 1975, through September 23, 1983--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	7	540.00	410.00	467.00	47.71	509.00	450.00	420.00
Fluoride, dissolved (mg/L as F)	7	2.20	0.40	1.26	0.79	2.10	1.40	0.40
Fluoride, total (mg/L as F)	1	2.20	2.20	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	9.10	3.80	8.01	1.92	9.10	9.00	8.00
Arsenic, dissolved (µg/L as As)	3	8.00	1.00	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	2	100.00	65.00	--	--	--	--	--
Beryllium, dissolved (µg/L as Be)	1	10.00	10.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	3	1400.00	1100.00	--	--	--	--	--
Cadmium, dissolved (µg/L as Cd)	1	0.00	0.00	--	--	--	--	--
Chromium, dissolved (µg/L as Cr)	2	10.00	1.00	--	--	--	--	--
Cobalt, dissolved (µg/L as Co)	2	8.00	6.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	3	9.00	1.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	6	820.00	18.00	274.17	361.89	650.00	67.50	22.00
Lead, dissolved (µg/L as Pb)	3	10.00	1.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	6	100.00	20.00	43.83	30.53	58.00	30.00	25.00
Molybdenum, dissolved (µg/L as Mo)	2	2.00	0.00	--	--	--	--	--
Nickel, dissolved (µg/L as Ni)	3	21.00	0.00	--	--	--	--	--
Silver, dissolved (µg/L as Ag)	2	0.00	0.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	6	950.00	200.00	528.33	355.95	890.00	465.00	200.00
Strontium, total (µg/L as Sr)	1	200.00	200.00	--	--	--	--	--
Zinc, dissolved (µg/L as Zn)	2	10.00	8.00	--	--	--	--	--
Antimony dissolved (µg/L as Sb)	2	0.00	0.00	--	--	--	--	--
Aluminum, dissolved (µg/L as Al)	3	110.00	30.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	5	67.00	30.00	49.20	17.96	63.00	56.00	30.00
Selenium, dissolved (µg/L as Se)	2	0.00	0.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	7	1450.00	1130.00	1300.86	146.11	1432.00	1381.00	1150.00
Solids, sum of constituents, dissolved (mg/L)	7	1450.59	1108.84	1291.38	140.17	1418.33	1353.35	1163.16
Solids, dissolved (tons per acre-foot)	7	1.97	1.54	1.77	0.20	1.95	1.88	1.56
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	1	0.40	0.40	--	--	--	--	--
Mercury, dissolved (µg/L as Hg)	2	0.20	0.00	--	--	--	--	--
Depth to bottom of water-bearing zone sampled (feet)	1	118.00	118.00	--	--	--	--	--
Sample source (codes)	1	1.00	1.00	--	--	--	--	--
Depth of well, total (feet)	6	118.00	118.00	118.00	0.00	118.00	118.00	118.00
Depth below land surface, water level (feet)	5	49.41	46.48	48.75	1.28	49.39	49.38	49.10
Specific conductance (µS/cm at 25 degrees Celsius)	5	2050.00	1750.00	1870.00	132.10	1970.00	1800.00	1780.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	7	592.00	462.00	534.71	56.30	586.00	568.00	480.00
Bicarbonate, titration to pH 4.5, laboratory (mg/L as HCO <sub>3</sub> )	1	692.00	692.00	--	--	--	--	--
Carbonate, titration to pH 8.3, laboratory (mg/L as CO <sub>3</sub> )	1	7.00	7.00	--	--	--	--	--



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460830103044502; local identifier, 131-099-29ADD2; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125TRVL.

DATUM.--Altitude of land surface datum is 2796.00 feet.

Summary of water-quality data, October 15, 1981, through May 18, 1983

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	3	8.60	7.50	--	--	--	--	--
Temperature, air (degrees Celsius)	2	15.00	13.00	--	--	--	--	--
Barometric pressure (mm of Hg)	2	694.00	683.00	--	--	--	--	--
Agency collecting sample (code number)	3	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	3	80020.00	1028.00	--	--	--	--	--
Color (platinum cobalt scale)	1	5.00	5.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	3	15500.00	1710.00	--	--	--	--	--
Oxygen, dissolved (mg/L)	2	1.40	1.20	--	--	--	--	--
Oxygen, dissolved (percent saturation)	1	12.91	12.91	--	--	--	--	--
pH, water, whole, field (standard units)	3	8.30	7.90	--	--	--	--	--
pH, water, whole, laboratory (standard units)	3	8.10	7.70	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO2)	1	1.30	1.30	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO3)	1	190.00	190.00	--	--	--	--	--
Hardness, total (mg/L as CaCO3)	3	6730.07	126.86	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO3)	1	6500.00	6500.00	--	--	--	--	--
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO3)	1	6540.00	6540.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	3	2200.00	24.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	3	300.00	16.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	3	370.00	71.00	--	--	--	--	--
Sodium adsorption ratio	3	13.99	0.38	--	--	--	--	--
Sodium (percent)	3	84.74	2.22	--	--	--	--	--
Potassium, dissolved (mg/L as K)	3	68.00	11.00	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	3	11.00	5.60	--	--	--	--	--
Sulfate, dissolved (mg/L as SO4)	3	6450.00	450.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	3	11.00	0.40	--	--	--	--	--
Silica, dissolved (mg/L as SiO2)	3	12.00	9.10	--	--	--	--	--
Boron, dissolved (µg/L as B)	2	1100.00	1100.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	2	18.00	15.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	2	30.00	24.00	--	--	--	--	--
Molybdenum, dissolved (µg/L as Mo)	1	1.00	1.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	2	910.00	890.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	2	78.00	67.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	9606.00	1150.00	--	--	--	--	--

Summary of water-quality data, October 15, 1981, through May 18, 1983--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Solids, sum of constituents, dissolved (mg/L)	3	9236.92	1167.51	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	3	13.06	1.56	--	--	--	--	--
Depth of well, total (feet)	2	80.00	80.00	--	--	--	--	--
Depth below land surface, water level (feet)	1	49.80	49.80	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	3	1800.00	1220.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	3	481.00	190.00	--	--	--	--	--
Hardness, noncarbonate (mg/L as CaCO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460830103044504; local identifier, 131-099-29ADD4; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125HRMN.

DATUM.--Altitude of land surface datum is 2796.00 feet.

# Summary of water-quality data, August 15, 1980, through August 15, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sampling depth (feet)	1	82.00	82.00	--	--	--	--	--
Water temperature (degrees Celsius)	13	8.90	7.20	8.14	0.61	8.60	8.20	7.60
Temperature, air (degrees Celsius)	10	31.00	12.50	23.55	5.88	27.00	24.50	21.00
Barometric pressure (mm of Hg)	10	691.00	682.00	687.10	3.07	690.00	687.50	685.00
Agency collecting sample (code number)	13	80020.00	1028.00	7104.31	21908.44	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	13	80020.00	1028.00	73943.70	21908.44	80020.00	80020.00	80020.00
Specific conductance (µS/cm at 25 degrees Celsius)	13	2090.00	1340.00	1770.00	183.94	1900.00	1750.00	1710.00
Oxygen, dissolved (mg/L)	3	1.20	0.00	--	--	--	--	--
Oxygen, dissolved (percent saturation)	1	11.13	11.13	--	--	--	--	--
pH, water, whole, field (standard units)	13	8.60	7.62	8.05	0.26	8.20	8.00	7.90
pH, water, whole, laboratory (standard units)	12	8.20	7.62	7.91	0.15	8.00	7.90	7.80
Carbon dioxide, dissolved (mg/L as CO2)	2	23.00	2.50	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO3)	4	528.00	460.00	--	--	--	--	--
Alkalinity, water, dissolved, total, fixed endpoint titration, field (mg/L as CaCO3)	2	517.00	515.00	--	--	--	--	--
Alkalinity, water, whole, total, incremental titration, field (mg/L as CaCO3)	1	530.00	530.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO3)	1	595.00	595.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO3)	1	0.00	0.00	--	--	--	--	--
Carbonate, water, whole, incremental titration, field (mg/L as CO3)	1	0.00	0.00	--	--	--	--	--
Bicarbonate, water, whole, incremental titration, field (mg/L as HCO3)	1	647.00	647.00	--	--	--	--	--
Carbonate, water, dissolved, incremental titration, field (mg/L as CO3)	2	5.00	0.00	--	--	--	--	--
Bicarbonate, water, dissolved, incremental titration, field (mg/L as HCO3)	2	635.00	622.00	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	3	0.53	0.52	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.00	0.00	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO4)	3	0.09	0.06	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	3	0.03	0.02	--	--	--	--	--
Carbon, organic, total (mg/L as C)	3	7.10	6.30	--	--	--	--	--
Carbon, inorganic total (mg/L as C)	2	100.00	70.00	--	--	--	--	--
Hardness, total (mg/L as CaCO3)	13	165.53	110.11	143.37	16.84	157.30	145.17	135.98
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO3)	4	0.00	0.00	--	--	--	--	--
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO3)	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	13	31.00	21.00	27.15	3.29	30.00	28.00	26.00
Calcium, total, recoverable (mg/L as Ca)	1	24.00	24.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	13	22.00	14.00	18.15	2.19	20.00	18.00	17.00

## Summary of water-quality data, August 15, 1980, through August 15, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Magnesium, total (mg/L as Mg)	1	17.00	17.00	--	--	--	--	--
Sodium, total, recoverable (mg/L as Na)	1	364.00	364.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	13	430.00	340.00	375.69	26.48	390.00	370.00	360.00
Sodium adsorption ratio	13	15.76	11.80	13.76	1.18	14.55	13.94	12.51
Sodium (percent)	13	86.83	81.20	83.80	1.62	84.39	83.84	82.56
Potassium, dissolved (mg/L as K)	13	13.00	9.60	11.97	0.99	13.00	12.00	12.00
Potassium, total (mg/L as K)	1	13.00	13.00	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	13	8.40	4.70	6.12	1.14	6.40	5.70	5.50
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	13	580.00	390.00	469.15	61.22	500.00	460.00	429.00
Fluoride, dissolved (mg/L as F)	11	0.60	0.40	0.44	0.07	0.50	0.40	0.40
Fluoride, total (mg/L as F)	1	0.60	0.60	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	13	11.00	8.80	9.33	0.60	9.40	9.10	9.00
Arsenic, dissolved (µg/L as As)	2	1.00	1.00	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	1	63.00	63.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	8	1200.00	980.00	1047.50	77.78	1100.00	1000.00	1000.00
Chromium, dissolved (µg/L as Cr)	2	10.00	0.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	2	0.00	0.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	12	78.00	3.00	23.50	19.28	30.00	20.00	12.00
Lead, dissolved (µg/L as Pb)	2	3.00	1.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	12	50.00	20.00	32.33	9.37	37.50	29.00	26.50
Molybdenum, dissolved (µg/L as Mo)	2	1.00	1.00	--	--	--	--	--
Nickel, dissolved (µg/L as Ni)	2	0.00	0.00	--	--	--	--	--
Silver, dissolved (µg/L as Ag)	1	0.00	0.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	9	1100.00	900.00	983.33	55.45	1000.00	980.00	970.00
Strontium, total (µg/L as Sr)	1	1000.00	1000.00	--	--	--	--	--
Zinc, dissolved (µg/L as Zn)	1	5.00	5.00	--	--	--	--	--
Antimony dissolved (µg/L as Sb)	1	0.00	0.00	--	--	--	--	--
Aluminum, dissolved (µg/L as Al)	2	40.00	10.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	9	65.00	39.00	51.78	7.50	54.00	51.00	50.00
Selenium, dissolved (µg/L as Se)	2	0.00	0.00	--	--	--	--	--
Alkalinity, water, dissolved, total, incremental titration, field (mg/L as CaCO <sub>3</sub> )	2	520.00	518.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	13	1380.00	1090.00	1220.77	89.95	1260.00	1220.00	1150.00
Solids, sum of constituents, dissolved (mg/L)	13	1404.72	1113.06	1217.76	94.20	1246.63	1185.79	1155.36
Solids, dissolved (tons per acre-foot)	13	1.88	1.48	1.66	0.12	1.71	1.66	1.56
Nitrogen, ammonia, dissolved (mg/L as NH <sub>4</sub> )	3	0.68	0.67	--	--	--	--	--
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	1	0.40	0.40	--	--	--	--	--
Mercury, dissolved (µg/L as Hg)	1	0.20	0.20	--	--	--	--	--
Depth of well, total (feet)	2	82.00	82.00	--	--	--	--	--

Site number, 460830103044504

Summary of water-quality data, August 15, 1980, through August 15, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Depth below land surface, water level (feet)	10	61.51	49.04	55.28	4.24	58.79	54.76	51.50
Carbon, 13/12 ratio per mil	3	-10.60	-10.70	--	--	--	--	--
Sulfur, 34/32 ratio per mil	3	-9.70	-11.10	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	12	2100.00	1620.00	1840.00	138.70	1940.00	1790.00	1755.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	12	560.00	460.00	496.08	27.81	512.50	492.50	475.50
Bicarbonate, titration to pH 4.5, laboratory (mg/L as HCO <sub>3</sub> )	1	595.00	595.00	--	--	--	--	--
Hardness, noncarbonate (mg/L as CaCO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461034103003301; local identifier, 131-099-13BAB1; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, September 23, 1976

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	2	8.00	8.00	--	--	--	--	--
Color (platinum cobalt scale)	1	90.00	90.00	--	--	--	--	--
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	2	1920.00	1700.00	--	--	--	--	--
pH, water, whole, field (standard units)	2	9.50	7.50	--	--	--	--	--
Carbon dioxide, dissolved ( $\text{mg}/\text{L}$ as $\text{CO}_2$ )	1	0.20	0.20	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	2	630.00	255.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{HCO}_3$ )	1	274.00	274.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{CO}_3$ )	1	18.00	18.00	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved ( $\text{mg}/\text{L}$ as N)	1	0.81	0.81	--	--	--	--	--
Phosphorus, dissolved ( $\text{mg}/\text{L}$ as P)	1	0.09	0.09	--	--	--	--	--
Hardness, total ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	2	539.67	58.47	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	2	0.00	0.00	--	--	--	--	--
Noncarbonate hardness, water, whole, total, laboratory ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved ( $\text{mg}/\text{L}$ as Ca)	2	99.00	15.00	--	--	--	--	--
Magnesium, dissolved ( $\text{mg}/\text{L}$ as Mg)	2	71.00	5.10	--	--	--	--	--
Sodium, dissolved ( $\text{mg}/\text{L}$ as Na)	2	340.00	210.00	--	--	--	--	--
Sodium adsorption ratio	2	19.35	3.93	--	--	--	--	--
Sodium (percent)	2	91.25	44.83	--	--	--	--	--
Potassium, dissolved ( $\text{mg}/\text{L}$ as K)	2	18.00	9.80	--	--	--	--	--
Chloride, dissolved ( $\text{mg}/\text{L}$ as Cl)	2	6.10	4.20	--	--	--	--	--
Sulfate, dissolved ( $\text{mg}/\text{L}$ as $\text{SO}_4$ )	2	490.00	380.00	--	--	--	--	--
Fluoride, dissolved ( $\text{mg}/\text{L}$ as F)	2	0.90	0.60	--	--	--	--	--
Silica, dissolved ( $\text{mg}/\text{L}$ as $\text{SiO}_2$ )	2	14.00	8.10	--	--	--	--	--
Boron, dissolved ( $\mu\text{g}/\text{L}$ as B)	1	390.00	390.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved ( $\text{mg}/\text{L}$ )	2	1220.00	1080.00	--	--	--	--	--
Solids, sum of constituents, dissolved ( $\text{mg}/\text{L}$ )	2	1174.55	1031.70	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	1.66	1.47	--	--	--	--	--
Depth of well, total (feet)	2	260.00	260.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	2	630.00	255.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461034103003302; local identifier, 131-099-13BAB2; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, June 28, 1976, through October 2, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	1	8.00	8.00	--	--	--	--	--
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Color (platinum cobalt scale)	1	3.00	3.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	1	1750.00	1750.00	--	--	--	--	--
pH, water, whole, field (standard units)	1	7.50	7.50	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	39.00	39.00	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	1	631.00	631.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	1	769.00	769.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.08	0.08	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.50	0.50	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	2	562.02	539.67	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	103.00	99.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	74.00	71.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	278.00	210.00	--	--	--	--	--
Sodium adsorption ratio	2	5.10	3.93	--	--	--	--	--
Sodium (percent)	1	44.83	44.83	--	--	--	--	--
Potassium, dissolved (mg/L as K)	1	18.00	18.00	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	1	4.20	4.20	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	1	380.00	380.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	1	0.60	0.60	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	2	18.00	14.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	1	400.00	400.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	1	1040.00	1040.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	1	1175.67	1175.67	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	1	1.41	1.41	--	--	--	--	--
Depth to bottom of water-bearing zone sampled (feet)	1	120.00	120.00	--	--	--	--	--
Sample source (codes)	1	1.00	1.00	--	--	--	--	--
Depth of well, total (feet)	1	120.00	120.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	1	631.00	631.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461130102122601; local identifier, 131-092-05DDDD; county code, 001.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, October 13, 1976, through August 10, 1993

Water-quality constituent	Sample size	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation		75	Median	25
Water temperature (degrees Celsius)	7	14.50	9.00	11.00	1.94		12.00	10.00	9.50
Temperature, air (degrees Celsius)	2	27.00	25.00	--	--		--	--	--
Agency collecting sample (code number)	1	1028.00	1028.00	--	--		--	--	--
Agency analyzing sample (code number)	7	80020.00	38002.00	74017.43	15881.31		80020.00	80020.00	80020.00
Turbidity (JCU)	1	15.00	15.00	--	--		--	--	--
Turbidity (NTU)	2	30.00	19.00	--	--		--	--	--
Color (platinum cobalt scale)	1	35.00	35.00	--	--		--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	8	3000.00	2450.00	2747.50	178.47		2855.00	2800.00	2610.00
pH, water, whole, field (standard units)	7	8.50	8.30	8.37	0.08		8.40	8.40	8.30
pH, water, whole, laboratory (standard units)	3	8.37	8.10	--	--		--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	4.00	4.00	--	--		--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	413.00	380.00	402.60	13.56		410.00	410.00	400.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	503.00	503.00	--	--		--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	0.00	0.00	--	--		--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	0.62	0.62	--	--		--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.26	0.26	--	--		--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	7	1.50	0.16	0.91	0.44		1.30	0.88	0.69
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.08	0.08	--	--		--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.01	0.01	--	--		--	--	--
Carbon, organic, dissolved (mg/L as C)	1	6.60	6.60	--	--		--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	8	58.68	40.70	51.46	6.02		54.99	53.75	47.40
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	5	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--		--	--	--
Calcium, dissolved (mg/L as Ca)	8	15.00	9.00	12.75	2.19		14.50	13.00	11.50
Magnesium, dissolved (mg/L as Mg)	8	5.40	3.00	4.64	0.74		5.05	4.85	4.45
Sodium, dissolved (mg/L as Na)	8	630.00	580.00	613.75	16.85		625.00	620.00	605.00
Sodium adsorption ratio	8	43.25	34.84	37.63	2.91		39.11	36.83	35.53
Sodium (percent)	8	96.66	95.25	95.82	0.46		96.07	95.75	95.51
Sodium plus potassium, dissolved (mg/L as Na)	4	640.00	140.00	--	--		--	--	--
Potassium, dissolved (mg/L as K)	8	6.60	4.50	5.68	0.75		6.25	5.80	5.10
Chloride, dissolved (mg/L as Cl)	8	14.00	5.90	9.54	3.03		12.00	9.15	7.05
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	8	1000.00	890.00	948.75	41.56		990.00	945.00	915.00
Fluoride, dissolved (mg/L as F)	8	1.00	0.80	0.86	0.07		0.90	0.85	0.80



## Summary of water-quality data, October 13, 1976, through August 10, 1993--Continued

Water-quality constituent	Descriptive statistics						Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation		75	Median	25
Silica, dissolved (mg/L as SiO <sub>2</sub> )	8	7.90	6.50	7.32	0.46		7.65	7.35	7.10
Arsenic, dissolved (µg/L as As)	1	1.00	1.00	--	--		--	--	--
Boron, dissolved (µg/L as B)	8	740.00	600.00	668.75	59.63		725.00	675.00	605.00
Copper, dissolved (µg/L as Cu)	1	7.00	7.00	--	--		--	--	--
Iron, dissolved (µg/L as Fe)	7	430.00	10.00	80.00	155.03		50.00	20.00	10.00
Lead, dissolved (µg/L as Pb)	1	3.00	3.00	--	--		--	--	--
Manganese, dissolved (µg/L as Mn)	8	80.00	20.00	42.50	19.09		50.00	40.00	30.00
Molybdenum, dissolved (µg/L as Mo)	8	3.00	0.00	1.50	1.07		2.00	2.00	0.50
Nickel, dissolved (µg/L as Ni)	1	2.00	2.00	--	--		--	--	--
Strontium, dissolved (µg/L as Sr)	8	550.00	400.00	450.00	45.67		460.00	445.00	420.00
Vanadium, dissolved (µg/L as V)	1	0.60	0.60	--	--		--	--	--
Zinc, dissolved (µg/L as Zn)	1	20.00	20.00	--	--		--	--	--
Aluminum, dissolved (µg/L as Al)	1	60.00	60.00	--	--		--	--	--
Lithium, dissolved (µg/L as Li)	2	80.00	60.00	--	--		--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	4	1970.00	1880.00	--	--		--	--	--
Solids, sum of constituents, dissolved (mg/L)	8	1922.74	1796.90	1846.24	46.80		1880.96	1832.18	1811.99
Solids, dissolved (tons per acre-foot)	8	2.68	2.46	2.56	0.07		2.60	2.58	2.51
Nitrogen, ammonia, dissolved (mg/L as NH <sub>4</sub> )	1	0.34	0.34	--	--		--	--	--
Mercury, dissolved (µg/L as Hg)	1	0.10	0.10	--	--		--	--	--
Depth below land surface, water level (feet)	1	73.20	73.20	--	--		--	--	--
Potassium 40, dissolved (pCi/L as K40)	2	3.60	3.40	--	--		--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	3	2810.00	2680.00	--	--		--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	3	411.00	400.00	--	--		--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461202103024301; local identifier, 130-099-03ABB; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, May 22, 1974, through May 28, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	2	8.00	6.20	--	--	--	--	--
Color (platinum cobalt scale)	2	11.00	10.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	3	7500.00	5240.00	--	--	--	--	--
Oxygen, dissolved (mg/L)	2	0.10	0.00	--	--	--	--	--
pH, water, whole, field (standard units)	4	10.00	9.70	--	--	--	--	--
pH, water, whole, laboratory (standard units)	1	9.80	9.80	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	3	0.10	0.00	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	4	171.00	55.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	3	74.00	6.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	3	100.00	56.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	1	0.23	0.23	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.06	0.06	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	1	0.00	0.00	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.23	0.23	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	4	486.93	259.63	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	3	320.00	88.00	--	--	--	--	--
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	305.00	88.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	4	192.00	100.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	4	2.40	1.60	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	4	1580.00	1200.00	--	--	--	--	--
Sodium adsorption ratio	4	32.41	29.34	--	--	--	--	--
Sodium (percent)	4	90.66	87.06	--	--	--	--	--
Potassium, dissolved (mg/L as K)	4	19.00	7.50	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	4	19.00	15.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	4	3610.00	2500.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	4	1.70	0.80	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	4	29.00	27.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	1	1400.00	1400.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	3	1080.00	920.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	3	48.00	40.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	5760.00	4050.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	4	5548.21	3961.93	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	4	7.83	5.51	--	--	--	--	--

Site number, 461202103024301

Summary of water-quality data, May 22, 1974, through May 28, 1981 --Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	1	1.00	1.00	--	--	--	--	--
Depth of well, total (feet)	3	96.00	89.00	--	--	--	--	--
Specific conductance (μS/cm at 25 degrees Celsius)	1	7390.00	7390.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	3	171.00	55.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461206101100801; local identifier, 131-084-03AAD; county code, 085.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

# Summary of water-quality data, August 31, 1972, through October 2, 1973

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown	
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50 25
Water temperature (degrees Celsius)	2	16.50	1.30	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	2	1710.00	1590.00	--	--	--	--
pH, water, whole, field (standard units)	2	8.30	7.30	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	2.30	2.30	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	1	240.00	240.00	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	2	280.00	267.00	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	2	6.00	0.00	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	2	0.56	0.23	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	1	0.04	0.04	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	1	0.01	0.01	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	2	420.45	380.36	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	2	202.00	140.00	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	76.00	55.00	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	59.00	56.00	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	260.00	198.00	--	--	--	--
Sodium adsorption ratio	2	5.80	4.20	--	--	--	--
Sodium (percent)	2	59.21	49.80	--	--	--	--
Potassium, dissolved (mg/L as K)	2	11.00	7.50	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	10.00	0.00	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	2	660.00	634.00	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	0.70	0.30	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	2	5.90	5.40	--	--	--	--
Boron, dissolved ( $\mu$ g/L as B)	2	690.00	300.00	--	--	--	--
Iron, dissolved ( $\mu$ g/L as Fe)	1	470.00	470.00	--	--	--	--
Manganese, dissolved ( $\mu$ g/L as Mn)	1	50.00	50.00	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	1220.00	1170.00	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	1204.94	1113.84	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	1.66	1.59	--	--	--	--
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	1	1.00	1.00	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	1	2.50	2.50	--	--	--	--
Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	1	0.00	0.00	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461211103043301; local identifier, 131-099-33CCC; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125TRVL.

DATUM.--Altitude of land surface datum is 2763.00 feet.

Summary of water-quality data, April 30, 1974, through April 15, 1976

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	5	8.80	7.00	7.96	0.73	8.50	8.00	7.50
Turbidity (JCU)	1	20.00	20.00	--	--	--	--	--
Color (platinum cobalt scale)	4	30.00	20.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	5	4350.00	3730.00	3956.00	242.76	4000.00	3900.00	3800.00
pH, water, whole, field (standard units)	5	7.80	7.45	7.67	0.15	7.80	7.70	7.60
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	5	36.00	16.00	22.60	8.26	25.00	19.00	17.00
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	537.00	498.00	515.20	14.55	518.00	516.00	507.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	5	655.00	607.00	628.00	17.89	631.00	629.00	618.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Residue, total filterable, dried at 105 degrees Celsius (mg/L)	1	3100.00	3100.00	--	--	--	--	--
Residue, total nonfilterable (mg/L)	1	22.00	22.00	--	--	--	--	--
Nitrogen, total (mg/L as N)	3	2.80	2.52	--	--	--	--	--
Nitrogen, organic, total (mg/L as N)	3	1.60	1.00	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as N)	3	1.70	1.20	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	3	2.80	2.50	--	--	--	--	--
Nitrogen, nitrite plus nitrate, total (mg/L as N)	1	0.02	0.02	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.17	0.17	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	3	0.06	0.00	--	--	--	--	--
Phosphorus, total (mg/L as P)	2	0.14	0.13	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.34	0.34	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	2	0.02	0.01	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	4	40.00	16.00	--	--	--	--	--
Carbon, organic, suspended, total (mg/L as C)	4	0.70	0.30	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	5	782.29	716.59	747.67	26.29	766.42	736.54	736.54
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	5	280.00	200.00	234.00	38.47	270.00	220.00	200.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	5	275.00	199.00	232.20	36.97	268.00	220.00	199.00
Calcium, dissolved (mg/L as Ca)	5	140.00	120.00	130.00	7.07	130.00	130.00	130.00
Magnesium, dissolved (mg/L as Mg)	5	110.00	100.00	102.00	4.47	100.00	100.00	100.00
Sodium, dissolved (mg/L as Na)	5	670.00	630.00	660.00	17.32	670.00	670.00	660.00
Sodium adsorption ratio	5	10.93	10.10	10.53	0.32	10.74	10.46	10.41
Sodium (percent)	5	66.62	64.36	65.23	0.97	65.87	64.72	64.60
Potassium, dissolved (mg/L as K)	5	18.00	15.00	16.40	1.34	17.00	17.00	15.00
Chloride, dissolved (mg/L as Cl)	5	8.00	5.90	6.54	0.85	6.50	6.30	6.00

## Summary of water-quality data, April 30, 1974, through April 15, 1976--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	5	1700.00	1500.00	1600.00	70.71	1600.00	1600.00	1600.00
Fluoride, dissolved (mg/L as F)	5	0.40	0.20	0.26	0.09	0.30	0.20	0.20
Silica, dissolved (mg/L as SiO <sub>2</sub> )	5	13.00	10.00	11.40	1.14	12.00	11.00	11.00
Arsenic, suspended, total (µg/L as As)	2	2.00	1.00	--	--	--	--	--
Arsenic, total (µg/L as As)	2	2.00	1.00	--	--	--	--	--
Barium, suspended, recoverable (µg/L as Ba)	3	100.00	0.00	--	--	--	--	--
Beryllium, suspended, recoverable (µg/L as Be)	4	0.00	0.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	3	7700.00	1900.00	--	--	--	--	--
Cadmium, suspended (µg/L as Cd)	1	10.00	10.00	--	--	--	--	--
Chromium, suspended (µg/L as Cr)	4	60.00	0.00	--	--	--	--	--
Chromium, total (µg/L as Cr)	1	70.00	70.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	2	8.00	2.00	--	--	--	--	--
Copper, suspended (µg/L as Cu)	3	10.00	2.00	--	--	--	--	--
Iron, total (µg/L as Fe)	4	9100.00	4200.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	4	2000.00	280.00	--	--	--	--	--
Lead, dissolved (µg/L as Pb)	1	2.00	2.00	--	--	--	--	--
Lead, suspended (µg/L as Pb)	2	99.00	0.00	--	--	--	--	--
Manganese, suspended (µg/L as Mn)	4	60.00	10.00	--	--	--	--	--
Manganese, total (µg/L as Mn)	4	520.00	340.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	5	500.00	280.00	388.00	85.85	430.00	400.00	330.00
Molybdenum, suspended (µg/L as Mo)	4	2.00	1.00	--	--	--	--	--
Molybdenum, total (µg/L as Mo)	4	2.00	1.00	--	--	--	--	--
Nickel, dissolved (µg/L as Ni)	3	3.00	2.00	--	--	--	--	--
Nickel, suspended (µg/L as Ni)	1	48.00	48.00	--	--	--	--	--
Nickel, total (µg/L as Ni)	1	50.00	50.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	3	4400.00	4000.00	--	--	--	--	--
Strontium, suspended (µg/L as Sr)	3	100.00	0.00	--	--	--	--	--
Strontium, total (µg/L as Sr)	3	4400.00	3600.00	--	--	--	--	--
Vanadium, dissolved (µg/L as V)	4	1.60	0.00	--	--	--	--	--
Zinc, dissolved (µg/L as Zn)	4	750.00	30.00	--	--	--	--	--
Zinc, suspended (µg/L as Zn)	4	550.00	20.00	--	--	--	--	--
Zinc, total (µg/L as Zn)	4	1300.00	50.00	--	--	--	--	--
Aluminum, total (µg/L as Al)	2	200.00	20.00	--	--	--	--	--
Aluminum, dissolved (µg/L as Al)	1	30.00	30.00	--	--	--	--	--
Aluminum, suspended (µg/L as Al)	4	200.00	20.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	4	230.00	230.00	--	--	--	--	--
Lithium, suspended (µg/L as Li)	4	30.00	0.00	--	--	--	--	--
Lithium, total (µg/L as Li)	4	260.00	220.00	--	--	--	--	--

## Summary of water-quality data, April 30, 1974, through April 15, 1976--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Selenium, dissolved ( $\mu\text{g/L}$ as Se)	1	1.00	1.00	--	--	--	--	--
Selenium, suspended ( $\mu\text{g/L}$ as Se)	4	0.00	0.00	--	--	--	--	--
Beta, gross, dissolved (pCi/L as Cs-137)	1	81.00	81.00	--	--	--	--	--
Radium 226, dissolved, radon method (pCi/L)	1	0.08	0.08	--	--	--	--	--
Uranium, natural, water, dissolved ( $\mu\text{g/L}$ )	1	0.03	0.03	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	5	3030.00	2940.00	2976.00	37.81	2990.00	2980.00	2940.00
Solids, sum of constituents, dissolved (mg/L)	5	2946.96	2756.75	2843.17	69.82	2856.39	2845.45	2810.30
Solids, dissolved (tons per acre-foot)	5	4.12	4.00	4.05	0.05	4.07	4.05	4.00
Bromide, dissolved (mg/L as Br)	3	0.10	0.00	--	--	--	--	--
Nitrogen, total (mg/L as NO <sub>3</sub> )	3	12.00	11.15	--	--	--	--	--
Mercury, suspended, recoverable ( $\mu\text{g/L}$ as Hg)	4	0.00	0.00	--	--	--	--	--
Depth of well, total (feet)	5	58.00	58.00	58.00	0.00	58.00	58.00	58.00
Beta, gross, dissolved (pCi/L as strontium/yttrium-90)	1	64.00	64.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	5	537.00	498.00	515.20	14.55	518.00	516.00	507.00

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461257103004901; local identifier, 131-099-36BBB1; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

# Summary of water-quality data, April 23, 1974, through April 14, 1976

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sampling depth (feet)	1	155.00	155.00	--	--	--	--	--
Water temperature (degrees Celsius)	5	10.00	7.00	8.60	1.19	9.50	8.50	8.00
Turbidity (JCU)	1	1.00	1.00	--	--	--	--	--
Color (platinum cobalt scale)	1	3000.00	3000.00	--	--	--	--	--
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	5	1580.00	1290.00	1470.00	111.13	1530.00	1500.00	1450.00
pH, water, whole, field (standard units)	5	9.00	8.50	8.80	0.19	8.90	8.80	8.80
Carbon dioxide, dissolved ( $\text{mg}/\text{L}$ as $\text{CO}_2$ )	5	3.60	1.10	1.92	0.97	1.70	1.70	1.50
Alkalinity, water, whole, total, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	5	611.00	551.00	575.40	23.86	584.00	574.00	557.00
Bicarbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{HCO}_3$ )	5	696.00	629.00	658.40	28.63	679.00	653.00	635.00
Carbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{CO}_3$ )	5	24.00	16.00	21.20	3.11	23.00	22.00	21.00
Residue, total filterable, dried at 105 degrees Celsius ( $\text{mg}/\text{L}$ )	1	930.00	930.00	--	--	--	--	--
Residue, total nonfilterable ( $\text{mg}/\text{L}$ )	1	27.00	27.00	--	--	--	--	--
Nitrogen, total ( $\text{mg}/\text{L}$ as N)	3	3.58	2.70	--	--	--	--	--
Nitrogen, organic, total ( $\text{mg}/\text{L}$ as N)	3	3.16	2.16	--	--	--	--	--
Nitrogen, ammonia, total ( $\text{mg}/\text{L}$ as N)	3	0.54	0.03	--	--	--	--	--
Nitrogen, ammonia plus organic, total ( $\text{mg}/\text{L}$ as N)	3	3.30	2.30	--	--	--	--	--
Nitrogen, nitrite plus nitrate, total ( $\text{mg}/\text{L}$ as N)	2	0.97	0.28	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved ( $\text{mg}/\text{L}$ as N)	1	0.05	0.05	--	--	--	--	--
Phosphate, orthophosphate, dissolved ( $\text{mg}/\text{L}$ as $\text{PO}_4$ )	2	1.99	0.25	--	--	--	--	--
Phosphorus, total ( $\text{mg}/\text{L}$ as P)	3	0.68	0.09	--	--	--	--	--
Phosphorus, dissolved ( $\text{mg}/\text{L}$ as P)	1	0.90	0.90	--	--	--	--	--
Phosphorus, orthophosphate, dissolved ( $\text{mg}/\text{L}$ as P)	2	0.65	0.08	--	--	--	--	--
Carbon, organic, dissolved ( $\text{mg}/\text{L}$ as C)	4	98.00	0.90	--	--	--	--	--
Carbon, organic, suspended, total ( $\text{mg}/\text{L}$ as C)	3	7.40	0.10	--	--	--	--	--
Hardness, total ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	5	25.48	19.02	22.58	2.80	25.25	22.27	20.86
Noncarbonate hardness, water, whole, total, field ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Calcium, dissolved ( $\text{mg}/\text{L}$ as Ca)	5	7.40	5.80	6.34	0.67	6.60	6.00	5.90
Magnesium, dissolved ( $\text{mg}/\text{L}$ as Mg)	5	2.10	1.10	1.62	0.38	1.80	1.70	1.40
Sodium, dissolved ( $\text{mg}/\text{L}$ as Na)	5	370.00	320.00	346.00	23.02	370.00	340.00	330.00
Sodium adsorption ratio	5	36.93	27.59	31.93	3.40	32.48	32.12	30.52
Sodium (percent)	5	97.26	95.96	96.64	0.47	96.80	96.63	96.56
Potassium, dissolved ( $\text{mg}/\text{L}$ as K)	5	3.00	2.30	2.78	0.28	2.90	2.90	2.80



## Summary of water-quality data, April 23, 1974, through April 14, 1976--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Chloride, dissolved (mg/L as Cl)	5	91.00	20.00	42.60	29.57	49.00	33.00	20.00
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	5	200.00	130.00	168.00	28.64	190.00	170.00	150.00
Fluoride, dissolved (mg/L as F)	5	6.80	3.50	4.86	1.25	5.20	4.60	4.20
Silica, dissolved (mg/L as SiO <sub>2</sub> )	5	10.00	5.80	7.78	1.61	8.60	7.60	6.90
Arsenic, dissolved (µg/L as As)	4	7.00	4.00	--	--	--	--	--
Arsenic, suspended, total (µg/L as As)	4	11.00	1.00	--	--	--	--	--
Arsenic, total (µg/L as As)	4	16.00	8.00	--	--	--	--	--
Barium, suspended, recoverable (µg/L as Ba)	3	0.00	0.00	--	--	--	--	--
Beryllium, suspended, recoverable (µg/L as Be)	4	10.00	0.00	--	--	--	--	--
Beryllium, total (µg/L as Be)	1	10.00	10.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	3	1100.00	240.00	--	--	--	--	--
Cadmium, dissolved (µg/L as Cd)	1	3.00	3.00	--	--	--	--	--
Cadmium, suspended (µg/L as Cd)	1	9.00	9.00	--	--	--	--	--
Chromium, dissolved (µg/L as Cr)	1	20.00	20.00	--	--	--	--	--
Chromium, suspended (µg/L as Cr)	4	0.00	0.00	--	--	--	--	--
Chromium, total (µg/L as Cr)	1	20.00	20.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	3	17.00	5.00	--	--	--	--	--
Copper, suspended (µg/L as Cu)	3	9.00	0.00	--	--	--	--	--
Iron, total (µg/L as Fe)	3	1400.00	710.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	4	590.00	310.00	--	--	--	--	--
Lead, dissolved (µg/L as Pb)	3	9.00	3.00	--	--	--	--	--
Lead, suspended (µg/L as Pb)	1	92.00	92.00	--	--	--	--	--
Manganese, suspended (µg/L as Mn)	4	1700.00	10.00	--	--	--	--	--
Manganese, total (µg/L as Mn)	4	1800.00	90.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	5	130.00	70.00	88.00	23.88	80.00	80.00	80.00
Molybdenum, dissolved (µg/L as Mo)	4	28.00	13.00	--	--	--	--	--
Molybdenum, suspended (µg/L as Mo)	4	36.00	0.00	--	--	--	--	--
Molybdenum, total (µg/L as Mo)	4	50.00	13.00	--	--	--	--	--
Nickel, dissolved (µg/L as Ni)	3	20.00	6.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	3	110.00	100.00	--	--	--	--	--
Strontium, suspended (µg/L as Sr)	3	40.00	0.00	--	--	--	--	--
Strontium, total (µg/L as Sr)	3	150.00	90.00	--	--	--	--	--
Vanadium, dissolved (µg/L as V)	2	80.00	4.50	--	--	--	--	--
Zinc, dissolved (µg/L as Zn)	4	320.00	150.00	--	--	--	--	--
Zinc, suspended (µg/L as Zn)	4	180.00	30.00	--	--	--	--	--
Zinc, total (µg/L as Zn)	4	430.00	190.00	--	--	--	--	--
Aluminum, total (µg/L as Al)	4	1700.00	370.00	--	--	--	--	--
Aluminum, dissolved (µg/L as Al)	4	420.00	150.00	--	--	--	--	--

Summary of water-quality data, April 23, 1974, through April 14, 1976--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Aluminum, suspended (µg/L as Al)	4	1500.00	190.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	3	20.00	20.00	--	--	--	--	--
Lithium, suspended (µg/L as Li)	3	10.00	0.00	--	--	--	--	--
Lithium, total (µg/L as Li)	2	30.00	20.00	--	--	--	--	--
Selenium, suspended (µg/L as Se)	4	1.00	0.00	--	--	--	--	--
Selenium, total (µg/L as Se)	1	1.00	1.00	--	--	--	--	--
Beta, gross, dissolved (pCi/L as Cs-137)	1	22.00	22.00	--	--	--	--	--
Beta, gross, suspended (pCi/L as Cs-137)	1	6.10	6.10	--	--	--	--	--
Radium 226, dissolved, radon method (pCi/L)	1	0.10	0.10	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	5	1050.00	976.00	1009.80	33.48	1040.00	1000.00	983.00
Solids, sum of constituents, dissolved (mg/L)	5	983.34	880.99	926.85	38.60	938.20	928.07	903.68
Solids, dissolved (tons per acre-foot)	5	1.43	1.33	1.37	0.05	1.41	1.36	1.34
Bromide, dissolved (mg/L as Br)	3	0.30	0.20	--	--	--	--	--
Nitrogen, total (mg/L as NO3)	3	15.85	12.00	--	--	--	--	--
Mercury, suspended, recoverable (µg/L as Hg)	4	0.00	0.00	--	--	--	--	--
Depth of well, total (feet)	5	155.00	155.00	155.00	0.00	155.00	155.00	155.00
Uranium, dissolved, direct fluorometric (pCi/L)	1	2.70	2.70	--	--	--	--	--
Alpha, gross, dissolved (µg/L as U natural)	1	120.00	120.00	--	--	--	--	--
Alpha, gross radioactivity, suspended, total (µg/L as U natural)	1	28.00	28.00	--	--	--	--	--
Beta, gross, dissolved (pCi/L as strontium/yttrium-90)	1	18.00	18.00	--	--	--	--	--
Beta, gross, radioactivity, suspended, total (pCi/L as strontium/yttrium-90)	1	5.70	5.70	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO3)	5	611.00	551.00	575.40	23.86	584.00	574.00	557.00

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461311101065201; local identifier, 132-083-30DCC; county code, 085.

HYDROLOGIC UNIT.-- 10130206.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, August 31, 1972, through October 2, 1973

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	3	23.00	1.30	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	3	3050.00	1500.00	--	--	--	--	--
pH, water, whole, field (standard units)	3	8.30	7.40	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	2	6.10	2.20	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	2	313.00	227.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	3	381.00	253.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	3	3.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	3	0.56	0.23	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	1	0.02	0.02	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	1	0.01	0.01	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	3	730.41	309.47	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	3	420.00	82.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	3	210.00	53.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	3	52.00	43.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	3	470.00	182.00	--	--	--	--	--
Sodium adsorption ratio	3	7.57	3.97	--	--	--	--	--
Sodium (percent)	3	62.13	48.96	--	--	--	--	--
Potassium, dissolved (mg/L as K)	3	12.00	7.00	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	3	17.00	0.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	3	1400.00	590.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	3	0.50	0.20	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	3	6.60	4.40	--	--	--	--	--
Boron, dissolved ( $\mu$ g/L as B)	3	650.00	340.00	--	--	--	--	--
Iron, dissolved ( $\mu$ g/L as Fe)	3	340.00	60.00	--	--	--	--	--
Manganese, dissolved ( $\mu$ g/L as Mn)	2	20.00	0.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	2370.00	1090.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	3	2353.16	1047.60	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	3	3.22	1.48	--	--	--	--	--
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	1	2.50	2.50	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	2	1.00	1.00	--	--	--	--	--
Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461345101323801; local identifier, 132-087-27ADA; county code, 037.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--211HLCK.

DATUM.--Altitude of land surface datum is 2010.00 feet.

Summary of water-quality data, November 15, 1972, through July 24, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sampling depth (feet)	1	180.00	180.00	--	--	--	--	--
Water temperature (degrees Celsius)	15	10.10	4.50	8.68	1.27	9.50	8.70	8.50
Barometric pressure (mm of Hg)	5	752.00	752.00	752.00	0.00	752.00	752.00	752.00
Agency analyzing sample (code number)	11	80020.00	38002.00	57101.09	21943.19	80020.00	38002.00	38002.00
Color (platinum cobalt scale)	1	50.00	50.00	--	--	--	--	--
Oxidation reduction potential (millivolts)	10	767.00	745.00	754.90	7.39	761.00	752.50	750.00
Specific conductance (µS/cm at 25 degrees Celsius)	15	1910.00	1760.00	1826.00	50.26	1860.00	1820.00	1780.00
Oxygen, dissolved (mg/L)	10	10.40	0.60	3.65	3.41	4.00	2.60	1.40
Oxygen, dissolved (percent saturation)	5	82.87	5.28	24.81	32.59	12.26	12.26	11.38
pH, water, whole, field (standard units)	13	8.55	8.00	8.36	0.15	8.43	8.40	8.30
pH, water, whole, laboratory (standard units)	10	8.50	8.20	8.32	0.11	8.40	8.35	8.20
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	13	15.00	4.04	6.89	2.92	7.50	5.70	5.46
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	15	812.00	740.00	783.00	21.89	810.00	780.00	766.00
Alkalinity, carbonate (mg/L as CaCO <sub>3</sub> )	10	765.00	761.00	763.60	1.51	765.00	764.00	762.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	15	967.00	845.00	912.67	25.25	921.00	913.00	906.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	15	44.00	0.00	11.81	10.61	13.50	9.00	7.32
Nitrogen, ammonia, dissolved (mg/L as N)	5	0.48	0.34	0.44	0.06	0.47	0.45	0.44
Nitrogen, nitrite, dissolved (mg/L as N)	5	0.03	0.01	0.03	0.01	0.03	0.03	0.03
Nitrogen, nitrate, dissolved (mg/L as N)	13	0.23	0.05	0.17	0.08	0.23	0.23	0.10
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	6	0.15	0.01	0.10	0.05	0.13	0.10	0.08
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	5	0.43	0.00	0.25	0.16	0.34	0.28	0.22
Phosphorus, dissolved (mg/L as P)	1	0.14	0.14	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	5	0.14	0.00	0.08	0.05	0.11	0.09	0.07
Carbon, organic, total (mg/L as C)	5	12.00	4.80	6.74	3.00	6.40	5.30	5.20
Carbon, organic, dissolved (mg/L as C)	5	5.40	2.70	4.24	1.37	5.30	5.00	2.80
Carbon, organic, suspended, total (mg/L as C)	5	0.40	0.00	0.12	0.16	0.10	0.10	0.00
Cyanide, total (mg/L as Cn)	1	0.00	0.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	15	17.70	9.60	12.39	2.77	13.74	11.85	9.98
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Calcium, dissolved (mg/L as Ca)	15	3.50	2.60	2.97	0.32	3.30	2.80	2.70
Magnesium, dissolved (mg/L as Mg)	15	2.60	0.30	1.19	0.82	1.70	1.30	0.40
Sodium, dissolved (mg/L as Na)	15	470.00	430.00	451.00	11.98	460.00	450.00	440.00

## Summary of water-quality data, November 15, 1972, through July 24, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sodium adsorption ratio	15	65.59	46.55	56.98	6.73	63.91	56.27	52.83
Sodium (percent)	15	98.89	97.86	98.53	0.38	98.87	98.65	98.25
Potassium, dissolved (mg/L as K)	15	3.00	1.00	1.86	0.79	2.90	1.50	1.30
Chloride, dissolved (mg/L as Cl)	15	80.00	68.00	71.73	4.04	72.00	70.00	70.00
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	15	150.00	98.00	119.60	22.83	150.00	110.00	100.00
Fluoride, dissolved (mg/L as F)	15	5.80	2.50	3.22	0.77	3.40	3.00	2.80
Silica, dissolved (mg/L as SiO <sub>2</sub> )	15	14.00	11.00	12.87	0.99	14.00	13.00	12.00
Arsenic, dissolved (µg/L as As)	6	3.00	0.00	0.83	1.17	1.00	0.50	0.00
Barium, dissolved (µg/L as Ba)	5	280.00	170.00	210.00	41.23	200.00	200.00	200.00
Boron, dissolved (µg/L as B)	15	2500.00	1400.00	2050.67	227.89	2200.00	2000.00	2000.00
Cadmium, dissolved (µg/L as Cd)	2	1.00	1.00	--	--	--	--	--
Chromium, dissolved (µg/L as Cr)	5	10.00	0.00	8.00	4.47	10.00	10.00	10.00
Cobalt, dissolved (µg/L as Co)	1	2.00	2.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	5	6.00	2.00	4.00	1.87	5.00	5.00	2.00
Iron, dissolved (µg/L as Fe)	14	610.00	10.00	142.86	140.19	130.00	115.00	80.00
Lead, dissolved (µg/L as Pb)	6	4.00	2.00	2.83	0.75	3.00	3.00	2.00
Manganese, dissolved (µg/L as Mn)	12	80.00	6.00	18.67	20.93	20.00	10.00	9.50
Molybdenum, dissolved (µg/L as Mo)	5	14.00	5.00	10.60	3.51	13.00	11.00	10.00
Strontium, dissolved (µg/L as Sr)	6	120.00	60.00	88.33	20.41	100.00	85.00	80.00
Vanadium, dissolved (µg/L as V)	1	1.30	1.30	--	--	--	--	--
Zinc, dissolved (µg/L as Zn)	6	60.00	10.00	25.00	17.61	20.00	20.00	20.00
Aluminum, dissolved (µg/L as Al)	4	20.00	0.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	6	60.00	50.00	51.67	4.08	50.00	50.00	50.00
Selenium, dissolved (µg/L as Se)	6	4.00	0.00	0.67	1.63	0.00	0.00	0.00
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	15	1185.00	1070.00	1143.00	33.48	1180.00	1140.00	1120.00
Solids, sum of constituents, dissolved (mg/L)	15	1185.68	1091.58	1136.60	31.90	1158.88	1139.66	1103.61
Solids, dissolved (tons per acre-foot)	15	1.61	1.46	1.55	0.05	1.61	1.55	1.52
Hydroxide, water, whole, fixed endpoint titration, field (mg/L as OH)	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nitrogen, ammonia, dissolved (mg/L as NH <sub>4</sub> )	5	0.62	0.44	0.56	0.07	0.61	0.58	0.57
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	2	1.00	1.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	13	1.00	0.22	0.76	0.32	1.00	1.00	0.44
Nitrogen, nitrite, dissolved (mg/L as NO <sub>2</sub> )	5	0.10	0.03	0.09	0.03	0.10	0.10	0.10
Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	2	15.00	15.00	--	--	--	--	--
Mercury, dissolved (µg/L as Hg)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Elevation of land surface datum, LSD (feet NGVD)	2	2010.00	2010.00	--	--	--	--	--
Depth of well, total (feet)	12	180.00	180.00	180.00	0.00	180.00	180.00	180.00
Depth below land surface, water level (feet)	10	11.96	11.92	11.94	0.02	11.96	11.94	11.92
Potassium 40, dissolved (pCi/L as K40)	5	1.10	1.00	1.04	0.05	1.10	1.00	1.00

Site number, 461345101323801

Summary of water-quality data, November 15, 1972, through July 24, 1981 --Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	10	1900.00	1780.00	1840.00	40.83	1890.00	1825.00	1810.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	10	818.00	740.00	787.30	24.80	810.00	785.00	780.00
Bicarbonate, titration to pH 4.5, laboratory (mg/L as $\text{HCO}_3$ )	5	977.00	950.00	965.60	10.14	971.00	967.00	963.00
Carbonate, titration to pH 8.3, laboratory (mg/L as $\text{CO}_3$ )	5	17.00	10.00	13.80	3.56	17.00	15.00	10.00
Alkalinity, carbonate incremental titration, field (mg/L as $\text{CaCO}_3$ )	10	810.00	736.00	785.10	23.67	808.00	785.00	779.00
Bicarbonate, incremental titration, field (mg/L as $\text{HCO}_3$ )	10	953.00	878.00	929.40	23.03	948.00	930.50	927.00
Carbonate, incremental titration, field (mg/L as $\text{CO}_3$ )	10	19.00	9.30	13.55	4.12	18.60	14.00	9.32
Hydroxide, incremental titration, field (mg/L as OH)	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461348102121901; local identifier, 132-092-28BCB; county code, 041.

HYDROLOGIC.--10130205.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2455.00 feet.

Summary of water-quality data, October 13, 1976, through June 23, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	7	14.00	9.00	10.71	1.73	12.00	10.00	9.50
Temperature, air (degrees Celsius)	2	27.00	27.00	--	--	--	--	--
Agency analyzing sample (code number)	6	80020.00	80020.00	80020.00	0.00	80020.00	80020.00	80020.00
Turbidity (ICU)	1	10.00	10.00	--	--	--	--	--
Turbidity (NTU)	2	0.60	0.40	--	--	--	--	--
Color (platinum cobalt scale)	1	7.00	7.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	7	6000.00	4000.00	5257.14	677.27	6000.00	5250.00	5000.00
pH, water, whole, field (standard units)	7	8.30	8.00	8.16	0.13	8.30	8.10	8.05
pH, water, whole, laboratory (standard units)	2	8.10	8.00	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO2)	1	4.00	4.00	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO3)	5	412.00	410.00	410.40	0.89	410.00	410.00	410.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO3)	1	502.00	502.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO3)	1	0.00	0.00	--	--	--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	0.10	0.10	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.69	0.69	--	--	--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	7	1.60	0.79	1.26	0.27	1.40	1.40	1.10
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.02	0.02	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.04	0.04	--	--	--	--	--
Carbon, organic, total (mg/L as C)	1	6.60	6.60	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	6.00	6.00	--	--	--	--	--
Hardness, total (mg/L as CaCO3)	7	288.67	108.71	252.99	64.00	279.90	276.76	268.18
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO3)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO3)	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	7	75.00	25.00	64.71	17.71	73.00	70.00	67.00
Magnesium, dissolved (mg/L as Mg)	7	24.00	11.00	21.57	4.72	24.00	23.00	22.00
Sodium, dissolved (mg/L as Na)	7	1400.00	850.00	1235.71	179.62	1300.00	1300.00	1200.00
Sodium adsorption ratio	7	36.61	30.87	34.39	1.79	35.64	34.68	33.99
Sodium (percent)	7	94.07	89.73	91.19	1.36	91.32	90.94	90.60
Sodium plus potassium, dissolved (mg/L as Na)	4	1310.00	1300.00	--	--	--	--	--
Potassium, dissolved (mg/L as K)	7	13.00	7.00	11.00	2.16	13.00	12.00	10.00
Chloride, dissolved (mg/L as Cl)	7	12.00	3.30	5.93	2.87	6.50	4.70	4.50
Sulfate, dissolved (mg/L as SO4)	7	2700.00	1600.00	2442.86	377.96	2600.00	2600.00	2500.00
Fluoride, dissolved (mg/L as F)	7	0.90	0.40	0.54	0.17	0.60	0.50	0.40

Summary of water-quality data, October 13, 1976, through June 23, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	7.60	5.20	6.84	1.09	7.60	7.40	5.30
Arsenic, dissolved (µg/L as As)	1	1.00	1.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	7	700.00	470.00	557.14	76.97	600.00	550.00	500.00
Iron, dissolved (µg/L as Fe)	7	180.00	20.00	80.00	58.31	110.00	80.00	30.00
Manganese, dissolved (µg/L as Mn)	7	180.00	130.00	165.71	16.18	170.00	170.00	170.00
Molybdenum, dissolved (µg/L as Mo)	4	1.00	0.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	7	2700.00	850.00	2207.14	619.43	2500.00	2400.00	2200.00
Vanadium, dissolved (µg/L as V)	1	0.00	0.00	--	--	--	--	--
Aluminum, dissolved (µg/L as Al)	1	30.00	30.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	1	90.00	90.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	4270.00	2760.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	7	4362.89	2756.93	4034.89	570.38	4361.27	4170.60	4160.29
Solids, dissolved (tons per acre-foot)	7	5.93	3.75	5.49	0.77	5.81	5.78	5.67
Nitrogen, ammonia, dissolved (mg/L as NH <sub>4</sub> )	1	0.89	0.89	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	2	7.50	7.50	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	2	5630.00	5580.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	2	390.00	390.00	--	--	--	--	--



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461349103054801; local identifier, 131-099-29BBB; county code, 011.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TRVL.

DATUM.--Altitude of land surface datum is 2770.00 feet.

Summary of water-quality data, May 1, 1974, through October 15, 1991

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	7	14.40	8.50	11.01	2.39	14.40	10.00	9.50
Agency collecting sample (code number)	3	80020.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	3	80020.00	1028.00	--	--	--	--	--
Turbidity (JCU)	1	10.00	10.00	--	--	--	--	--
Color (platinum cobalt scale)	1	500.00	500.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	8	3200.00	1620.00	1957.50	514.16	1935.00	1765.00	1720.00
Oxygen, dissolved (mg/L)	2	0.00	0.00	--	--	--	--	--
pH, water, whole, field (standard units)	7	9.00	8.50	8.76	0.15	8.80	8.80	8.70
pH, water, whole, laboratory (standard units)	2	8.70	8.55	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	6	3.70	1.20	2.17	0.84	2.40	1.90	1.90
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	8	625.00	439.00	585.75	60.21	612.50	604.00	594.50
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	7	710.00	535.00	661.71	57.66	689.00	678.00	665.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	6	37.00	15.00	27.83	7.93	32.00	30.50	22.00
Residue, total filterable, dried at 105 degrees Celsius (mg/L)	1	1200.00	1200.00	--	--	--	--	--
Residue, total nonfilterable (mg/L)	1	5.00	5.00	--	--	--	--	--
Nitrogen, total (mg/L as N)	3	1.64	1.44	--	--	--	--	--
Nitrogen, organic, total (mg/L as N)	3	1.05	0.64	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as N)	2	0.35	0.14	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	1	0.14	0.14	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	3	1.40	0.64	--	--	--	--	--
Nitrogen, nitrite plus nitrate, total (mg/L as N)	3	1.00	0.04	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	3	0.49	0.09	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	4	3.68	0.22	--	--	--	--	--
Phosphorus, total (mg/L as P)	3	1.10	0.15	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	2	1.90	0.08	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	4	1.20	0.07	--	--	--	--	--
Carbon, organic, total (mg/L as C)	1	9.10	9.10	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	4	38.00	0.90	--	--	--	--	--
Carbon, organic, suspended, total (mg/L as C)	2	0.30	0.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	8	720.33	8.85	122.55	244.64	85.84	29.89	9.87
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	8	280.00	0.00	35.00	99.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Calcium, dissolved (mg/L as Ca)	8	140.00	2.20	26.74	48.44	29.10	4.25	2.50

## Summary of water-quality data, May 1, 1974, through October 15, 1991--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Magnesium, dissolved (mg/L as Mg)	8	90.00	0.79	13.52	31.02	5.90	1.95	0.85
Sodium, dissolved (mg/L as Na)	8	460.00	380.00	405.38	26.13	415.00	401.50	385.00
Sodium adsorption ratio	8	58.55	7.46	35.47	19.96	56.78	31.39	20.71
Sodium (percent)	8	98.72	57.61	90.86	14.03	98.59	96.04	90.66
Potassium, dissolved (mg/L as K)	8	13.00	1.70	4.05	3.71	3.90	2.75	2.20
Chloride, dissolved (mg/L as Cl)	8	51.00	4.80	16.58	16.27	23.00	8.60	6.80
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	8	1300.00	260.00	413.88	358.47	310.00	290.00	275.50
Fluoride, dissolved (mg/L as F)	8	1.40	0.70	1.19	0.25	1.35	1.30	1.05
Silica, dissolved (mg/L as SiO <sub>2</sub> )	8	9.80	7.30	8.59	0.87	9.40	8.30	8.10
Arsenic, dissolved (µg/L as As)	5	3.00	1.00	2.20	0.84	3.00	2.00	2.00
Arsenic, suspended, total (µg/L as As)	2	2.00	2.00	--	--	--	--	--
Arsenic, total (µg/L as As)	4	5.00	2.00	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	1	100.00	100.00	--	--	--	--	--
Barium, suspended, recoverable (µg/L as Ba)	3	100.00	0.00	--	--	--	--	--
Beryllium, dissolved (µg/L as Be)	2	10.00	3.00	--	--	--	--	--
Beryllium, suspended, recoverable (µg/L as Be)	4	0.00	0.00	--	--	--	--	--
Beryllium, total (µg/L as Be)	1	10.00	10.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	3	610.00	230.00	--	--	--	--	--
Cadmium, dissolved (µg/L as Cd)	1	2.00	2.00	--	--	--	--	--
Chromium, dissolved (µg/L as Cr)	2	2.00	0.00	--	--	--	--	--
Chromium, suspended (µg/L as Cr)	4	10.00	0.00	--	--	--	--	--
Chromium, total (µg/L as Cr)	2	20.00	8.00	--	--	--	--	--
Cobalt, dissolved (µg/L as Co)	1	4.00	4.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	5	14.00	1.00	6.80	4.71	7.00	7.00	5.00
Copper, suspended (µg/L as Cu)	2	3.00	0.00	--	--	--	--	--
Iron, total (µg/L as Fe)	4	4900.00	240.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	7	330.00	60.00	201.43	108.85	300.00	200.00	60.00
Lead, dissolved (µg/L as Pb)	5	11.00	3.00	5.80	3.11	6.00	5.00	4.00
Manganese, suspended (µg/L as Mn)	4	30.00	0.00	--	--	--	--	--
Manganese, total (µg/L as Mn)	4	90.00	50.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	7	220.00	25.00	69.29	67.36	60.00	50.00	40.00
Molybdenum, dissolved (µg/L as Mo)	5	10.00	2.00	4.40	3.21	4.00	3.00	3.00
Molybdenum, suspended (µg/L as Mo)	4	4.00	0.00	--	--	--	--	--
Molybdenum, total (µg/L as Mo)	4	7.00	2.00	--	--	--	--	--
Nickel, dissolved (µg/L as Ni)	5	32.00	1.00	11.20	12.32	10.00	10.00	3.00
Nickel, suspended (µg/L as Ni)	1	90.00	90.00	--	--	--	--	--
Silver, dissolved (µg/L as Ag)	1	0.00	0.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	5	100.00	50.00	86.60	20.92	100.00	93.00	90.00

## Summary of water-quality data, May 1, 1974, through October 15, 1991--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Strontium, suspended ( $\mu\text{g/L}$ as Sr)	3	30.00	0.00	--	--	--	--	--
Strontium, total ( $\mu\text{g/L}$ as Sr)	3	130.00	50.00	--	--	--	--	--
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	2	26.00	1.30	--	--	--	--	--
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	5	290.00	40.00	120.00	98.23	110.00	80.00	80.00
Zinc, suspended ( $\mu\text{g/L}$ as Zn)	4	630.00	0.00	--	--	--	--	--
Zinc, total ( $\mu\text{g/L}$ as Zn)	4	920.00	70.00	--	--	--	--	--
Antimony dissolved ( $\mu\text{g/L}$ as Sb)	1	0.00	0.00	--	--	--	--	--
Aluminum, total ( $\mu\text{g/L}$ as Al)	4	3300.00	80.00	--	--	--	--	--
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	5	70.00	20.00	44.00	20.74	60.00	40.00	30.00
Aluminum, suspended ( $\mu\text{g/L}$ as Al)	4	3200.00	20.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	3	24.00	20.00	--	--	--	--	--
Lithium, suspended ( $\mu\text{g/L}$ as Li)	4	0.00	0.00	--	--	--	--	--
Lithium, total ( $\mu\text{g/L}$ as Li)	2	20.00	20.00	--	--	--	--	--
Selenium, dissolved ( $\mu\text{g/L}$ as Se)	1	0.00	0.00	--	--	--	--	--
Selenium, suspended ( $\mu\text{g/L}$ as Se)	4	0.00	0.00	--	--	--	--	--
Beta, gross, dissolved (pCi/L as Cs-137)	1	58.00	58.00	--	--	--	--	--
Beta, gross, suspended (pCi/L as Cs-137)	1	0.80	0.80	--	--	--	--	--
Radium 226, dissolved, radon method (pCi/L)	1	0.14	0.14	--	--	--	--	--
Uranium, natural, water, dissolved ( $\mu\text{g/L}$ )	1	0.60	0.60	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	7	1100.00	1070.00	1090.00	11.55	1100.00	1090.00	1080.00
Solids, sum of constituents, dissolved (mg/L)	8	2286.49	1059.13	1241.48	423.18	1124.87	1104.94	1063.30
Solids, dissolved (tons per acre-foot)	8	3.11	1.46	1.69	0.58	1.50	1.49	1.48
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	1	0.60	0.60	--	--	--	--	--
Bromide, dissolved (mg/L as Br)	3	0.10	0.00	--	--	--	--	--
Nitrogen, total (mg/L as NO <sub>3</sub> )	3	7.26	6.37	--	--	--	--	--
Mercury, dissolved ( $\mu\text{g/L}$ as Hg)	3	1.00	0.00	--	--	--	--	--
Mercury, suspended, recoverable ( $\mu\text{g/L}$ as Hg)	4	1.00	0.00	--	--	--	--	--
Mercury, total, recoverable ( $\mu\text{g/L}$ as Hg)	2	1.60	0.60	--	--	--	--	--
Pump or flow period prior to sampling (minutes)	1	25.00	25.00	--	--	--	--	--
Depth of well, total (feet)	7	136.00	136.00	136.00	0.00	136.00	136.00	136.00
Depth below land surface, water level (feet)	1	14.31	14.31	--	--	--	--	--
Alpha, gross, dissolved ( $\mu\text{g/L}$ as U natural)	1	45.00	45.00	--	--	--	--	--
Alpha, gross radioactivity, suspended, total ( $\mu\text{g/L}$ as U natural)	1	1.90	1.90	--	--	--	--	--
Beta, gross, dissolved (pCi/L as strontium/yttrium-90)	1	49.00	49.00	--	--	--	--	--
Beta, gross, radioactivity, suspended, total (pCi/L as strontium/yttrium-90)	1	0.70	0.70	--	--	--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	2	1610.00	1550.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	7	625.00	590.00	606.71	11.31	614.00	606.00	599.00
Bicarbonate, titration to pH 4.5, laboratory (mg/L as HCO <sub>3</sub> )	1	710.00	710.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461355103032801; local number, 131-099-21DDDD; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

# Summary of water-quality data, May 17, 1974, through April 13, 1976

Water-quality constituent	Sample size	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation		75	Median	25
Water temperature (degrees Celsius)	7	9.50	7.50	8.37	0.62		8.50	8.50	8.00
Turbidity (JCU)	2	6.00	4.00	--	--		--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	7	2500.00	1920.00	2291.43	183.43		2390.00	2350.00	2230.00
pH, water, whole, field (standard units)	7	8.80	8.30	8.51	0.20		8.80	8.40	8.40
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	6	5.20	1.70	3.43	1.46		4.30	3.85	1.70
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	7	559.00	532.00	551.86	9.55		559.00	556.00	550.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	7	673.00	649.00	665.43	8.68		671.00	670.00	659.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	7	11.00	0.00	3.29	4.57		8.00	0.00	0.00
Residue, total filterable, dried at 105 degrees Celsius (mg/L)	1	160.00	160.00	--	--		--	--	--
Residue, total nonfilterable (mg/L)	1	4.00	4.00	--	--		--	--	--
Nitrogen, total (mg/L as N)	3	2.71	1.28	--	--		--	--	--
Nitrogen, organic, total (mg/L as N)	3	2.37	0.85	--	--		--	--	--
Nitrogen, ammonia, total (mg/L as N)	3	0.33	0.02	--	--		--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	3	2.70	1.00	--	--		--	--	--
Nitrogen, nitrite plus nitrate, total (mg/L as N)	3	0.85	0.01	--	--		--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	3	0.25	0.06	--	--		--	--	--
Phosphorus, total (mg/L as P)	3	0.30	0.02	--	--		--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	3	0.08	0.02	--	--		--	--	--
Carbon, organic, dissolved (mg/L as C)	5	23.00	0.20	13.38	8.75		17.00	17.00	9.70
Carbon, organic, suspended, total (mg/L as C)	3	1.70	0.80	--	--		--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	7	64.53	22.85	34.78	14.37		38.36	32.78	23.75
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	7	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	7	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Calcium, dissolved (mg/L as Ca)	7	6.90	4.40	5.36	0.90		6.20	5.30	4.60
Magnesium, dissolved (mg/L as Mg)	7	13.00	2.70	5.17	3.65		6.10	4.20	2.80
Sodium, dissolved (mg/L as Na)	7	530.00	460.00	496.00	25.92		510.00	500.00	462.00
Sodium adsorption ratio	7	45.77	27.63	38.29	6.69		45.23	38.01	32.46
Sodium (percent)	7	97.46	93.39	96.29	1.43		97.33	96.57	95.65
Potassium, dissolved (mg/L as K)	7	11.00	4.20	5.57	2.45		5.80	4.60	4.30
Chloride, dissolved (mg/L as Cl)	7	58.00	8.30	21.26	19.01		37.00	12.00	8.50
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	7	600.00	456.00	526.57	47.77		560.00	520.00	490.00
Fluoride, dissolved (mg/L as F)	7	3.00	1.90	2.40	0.40		2.70	2.40	1.90
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	7.50	5.40	6.73	0.79		7.50	6.60	6.30

## Summary of water-quality data, May 17, 1974, through April 13, 1976--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Arsenic, dissolved ( $\mu\text{g/L}$ as As)	4	2.00	1.00	--	--	--	--	--
Arsenic, suspended, total ( $\mu\text{g/L}$ as As)	1	1.00	1.00	--	--	--	--	--
Arsenic, total ( $\mu\text{g/L}$ as As)	4	2.00	1.00	--	--	--	--	--
Barium, suspended, recoverable ( $\mu\text{g/L}$ as Ba)	3	0.00	0.00	--	--	--	--	--
Beryllium, suspended, recoverable ( $\mu\text{g/L}$ as Be)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boron, dissolved ( $\mu\text{g/L}$ as B)	4	1100.00	230.00	--	--	--	--	--
Cadmium, dissolved ( $\mu\text{g/L}$ as Cd)	2	2.00	2.00	--	--	--	--	--
Chromium, suspended ( $\mu\text{g/L}$ as Cr)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Copper, dissolved ( $\mu\text{g/L}$ as Cu)	4	28.00	4.00	--	--	--	--	--
Copper, suspended ( $\mu\text{g/L}$ as Cu)	5	260.00	0.00	109.80	133.55	250.00	39.00	0.00
Copper, total ( $\mu\text{g/L}$ as Cu)	3	290.00	50.00	--	--	--	--	--
Iron, total ( $\mu\text{g/L}$ as Fe)	5	340.00	1.00	228.20	140.20	330.00	280.00	190.00
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	4	260.00	40.00	--	--	--	--	--
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	5	12.00	4.00	6.40	3.58	8.00	4.00	4.00
Manganese, suspended ( $\mu\text{g/L}$ as Mn)	5	20.00	0.00	8.00	8.37	10.00	10.00	0.00
Manganese, total ( $\mu\text{g/L}$ as Mn)	5	40.00	20.00	32.00	8.37	40.00	30.00	30.00
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	5	30.00	20.00	26.00	5.48	30.00	30.00	20.00
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	1	1.00	1.00	--	--	--	--	--
Molybdenum, suspended ( $\mu\text{g/L}$ as Mo)	5	2.00	0.00	1.00	0.71	1.00	1.00	1.00
Molybdenum, total ( $\mu\text{g/L}$ as Mo)	4	2.00	1.00	--	--	--	--	--
Nickel, dissolved ( $\mu\text{g/L}$ as Ni)	5	29.00	4.00	11.80	10.33	13.00	9.00	4.00
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	3	220.00	200.00	--	--	--	--	--
Strontium, suspended ( $\mu\text{g/L}$ as Sr)	3	10.00	0.00	--	--	--	--	--
Strontium, total ( $\mu\text{g/L}$ as Sr)	3	220.00	180.00	--	--	--	--	--
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	3	14.00	0.20	--	--	--	--	--
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	6	220.00	20.00	63.33	77.11	40.00	35.00	30.00
Zinc, suspended ( $\mu\text{g/L}$ as Zn)	5	50.00	0.00	22.00	25.88	50.00	10.00	0.00
Zinc, total ( $\mu\text{g/L}$ as Zn)	4	90.00	30.00	--	--	--	--	--
Aluminum, total ( $\mu\text{g/L}$ as Al)	5	400.00	90.00	280.00	132.48	400.00	300.00	210.00
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	5	120.00	50.00	76.00	29.67	90.00	70.00	50.00
Aluminum, suspended ( $\mu\text{g/L}$ as Al)	5	350.00	0.00	204.00	156.46	350.00	230.00	90.00
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	5	30.00	20.00	26.00	5.48	30.00	30.00	20.00
Lithium, suspended ( $\mu\text{g/L}$ as Li)	5	20.00	0.00	6.00	8.94	10.00	0.00	0.00
Lithium, total ( $\mu\text{g/L}$ as Li)	5	40.00	20.00	28.00	8.37	30.00	30.00	20.00
Selenium, dissolved ( $\mu\text{g/L}$ as Se)	1	1.00	1.00	--	--	--	--	--
Selenium, suspended ( $\mu\text{g/L}$ as Se)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Beta, gross, dissolved (pCi/L as Cs-137)	1	9.60	9.60	--	--	--	--	--
Radium 226, dissolved, radon method (pCi/L)	1	0.93	0.93	--	--	--	--	--

Site number, 461355103032801

Summary of water-quality data, May 17, 1974, through April 13, 1976--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Uranium, natural, water, dissolved ( $\mu\text{g/L}$ )	1	0.30	0.30	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved ( $\text{mg/L}$ )	7	1700.00	1308.00	1462.57	126.86	1490.00	1480.00	1350.00
Solids, sum of constituents, dissolved ( $\text{mg/L}$ )	7	1485.44	1285.39	1400.49	78.56	1472.52	1421.94	1302.43
Solids, dissolved (tons per acre-foot)	7	2.31	1.78	1.99	0.17	2.03	2.01	1.84
Bromide, dissolved ( $\text{mg/L}$ as Br)	3	0.20	0.10	--	--	--	--	--
Nitrogen, total ( $\text{mg/L}$ as $\text{NO}_3$ )	3	12.00	5.67	--	--	--	--	--
Mercury, suspended, recoverable ( $\mu\text{g/L}$ as Hg)	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Depth of well, total (feet)	7	90.00	90.00	90.00	0.00	90.00	90.00	90.00
Depth below land surface, water level (feet)	2	35.46	35.46	--	--	--	--	--
Alpha, gross radioactivity, suspended, total ( $\mu\text{g/L}$ as U natural)	1	1.10	1.10	--	--	--	--	--
Beta, gross, dissolved (pCi/L as strontium/yttrium-90)	1	7.60	7.60	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory ( $\text{mg/L}$ as $\text{CaCO}_3$ )	7	559.00	532.00	551.86	9.55	559.00	556.00	550.00

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461355103043301; local number, 131-099-21CCC1; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, April 25, 1974, through October 15, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sampling depth (feet)	1	184.00	184.00	--	--	--	--	--
Water temperature (degrees Celsius)	4	10.10	7.60	--	--	--	--	--
Agency collecting sample (code number)	1	80020.00	80020.00	--	--	--	--	--
Agency analyzing sample (code number)	1	80020.00	80020.00	--	--	--	--	--
Color (platinum cobalt scale)	1	2300.00	2300.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	4	5530.00	1730.00	--	--	--	--	--
Oxygen, dissolved (mg/L)	1	0.00	0.00	--	--	--	--	--
pH, water, whole, field (standard units)	4	8.50	7.50	--	--	--	--	--
pH, water, whole, laboratory (standard units)	1	8.50	8.50	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	3	22.00	3.80	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	4	616.00	294.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	3	688.00	358.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	3	31.00	0.00	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	2	0.33	0.21	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	2.30	2.30	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	4	2691.40	23.64	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	4	2300.00	0.00	--	--	--	--	--
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	4	2328.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	4	418.00	6.20	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	4	465.00	1.90	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	4	590.00	410.00	--	--	--	--	--
Sodium adsorption ratio	4	38.76	4.87	--	--	--	--	--
Sodium (percent)	4	97.26	31.90	--	--	--	--	--
Potassium, dissolved (mg/L as K)	4	5.30	2.40	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	4	145.00	20.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	4	2625.00	300.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	4	3.10	1.90	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	4	13.00	8.60	--	--	--	--	--
Arsenic, dissolved (µg/L as As)	1	2.00	2.00	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	1	200.00	200.00	--	--	--	--	--
Chromium, dissolved (µg/L as Cr)	1	0.00	0.00	--	--	--	--	--
Cobalt, dissolved (µg/L as Co)	1	9.00	9.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	1	8.00	8.00	--	--	--	--	--

Site number, 461355103043301

Summary of water-quality data, April 25, 1974, through October 15, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Iron, total (µg/L as Fe)	1	100.00	100.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	3	19700.00	410.00	--	--	--	--	--
Lead, dissolved (µg/L as Pb)	1	15.00	15.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	2	57.00	50.00	--	--	--	--	--
Molybdenum, dissolved (µg/L as Mo)	1	10.00	10.00	--	--	--	--	--
Nickel, dissolved (µg/L as Ni)	1	15.00	15.00	--	--	--	--	--
Silver, dissolved (µg/L as Ag)	1	0.00	0.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	1	160.00	160.00	--	--	--	--	--
Zinc, dissolved (µg/L as Zn)	1	610.00	610.00	--	--	--	--	--
Antimony dissolved (µg/L as Sb)	1	0.00	0.00	--	--	--	--	--
Aluminum, dissolved (µg/L as Al)	1	70.00	70.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	1	22.00	22.00	--	--	--	--	--
Selenium, dissolved (µg/L as Se)	1	0.00	0.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	4	6620.00	1230.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	4	4357.23	1134.95	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	4	9.00	1.67	--	--	--	--	--
Nitrogen, nitrate, total (mg/L as NO3)	2	14.20	11.20	--	--	--	--	--
Mercury, dissolved (µg/L as Hg)	1	0.00	0.00	--	--	--	--	--
Depth of well, total (feet)	4	184.00	184.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	1	1680.00	1680.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO3)	4	616.00	36.30	--	--	--	--	--



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461355103055701; local number, 131-099-19DDDD; county code, 011.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TRVL.

DATUM.--Altitude of land surface datum is 2775.00 feet.

Summary of water-quality data, May 24, 1974, through June 22, 1991

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	25	12.00	6.20	8.67	1.36	9.50	8.30	7.70
Temperature, air (degrees Celsius)	13	32.00	3.00	22.35	9.02	27.00	25.00	19.00
Barometric pressure (mm of Hg)	13	697.00	685.00	691.00	3.16	692.00	690.00	690.00
Agency collecting sample (code number)	17	80020.00	1028.00	14967.76	31040.11	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	17	80020.00	1028.00	75373.41	19158.37	80020.00	80020.00	80020.00
Turbidity (NTU)	3	46.00	3.00	--	--	--	--	--
Color (platinum cobalt scale)	1	1400.00	1400.00	--	--	--	--	--
Specific conductance (uS/cm at 25 degrees Celsius)	24	7350.00	1176.00	2479.75	1363.68	2840.00	1947.00	1705.00
Oxygen, dissolved (mg/L)	16	12.80	0.00	3.40	3.21	4.45	2.75	1.50
Oxygen, dissolved (percent saturation)	12	118.49	7.75	40.74	29.08	50.24	32.97	23.21
pH, water, whole, field (standard units)	25	8.90	7.40	8.22	0.38	8.50	8.30	8.00
pH, water, whole, laboratory (standard units)	16	8.60	7.60	8.08	0.24	8.25	8.06	8.00
Carbon dioxide, dissolved (mg/L as CO2)	12	21.00	0.00	6.23	6.33	9.45	3.10	2.60
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO3)	11	730.00	241.00	451.09	142.93	518.00	413.00	380.00
Alkalinity, water, dissolved, total, fixed endpoint titration, field (mg/L as CaCO3)	2	538.00	505.00	--	--	--	--	--
Alkalinity, water, whole, total, incremental titration, field (mg/L as CaCO3)	1	520.00	520.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO3)	8	890.00	294.00	550.75	197.21	663.50	546.50	401.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO3)	8	20.00	0.00	3.38	7.15	3.50	0.00	0.00
Carbonate, water, whole, incremental titration, field (mg/L as CO3)	1	19.00	19.00	--	--	--	--	--
Bicarbonate, water, whole, incremental titration, field (mg/L as HCO3)	1	595.00	595.00	--	--	--	--	--
Carbonate, water, dissolved, incremental titration, field (mg/L as CO3)	2	19.00	0.00	--	--	--	--	--
Bicarbonate, water, dissolved, incremental titration, field (mg/L as HCO3)	2	661.00	574.00	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	3	0.54	0.30	--	--	--	--	--
Nitrogen, nitrite, dissolved (mg/L as N)	3	0.13	0.03	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	2	0.38	0.23	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	2	0.18	0.09	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO4)	3	0.55	0.34	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	3	0.18	0.11	--	--	--	--	--
Carbon, organic, total (mg/L as C)	2	40.00	36.00	--	--	--	--	--
Carbon, inorganic total (mg/L as C)	2	17.00	13.00	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	2	120.00	100.00	--	--	--	--	--
Carbon, organic, suspended, total (mg/L as C)	2	5.40	3.50	--	--	--	--	--
Hardness, total (mg/L as CaCO3)	24	2344.78	24.34	258.27	501.08	210.39	77.19	42.91

## Summary of water-quality data, May 24, 1974, through June 22, 1991--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Calcium, dissolved (mg/L as Ca)	24	310.00	4.80	37.62	64.13	29.50	15.50	11.50
Magnesium, dissolved (mg/L as Mg)	25	380.00	2.10	38.47	81.16	27.00	8.70	3.60
Sodium, dissolved (mg/L as Na)	25	1200.00	210.00	503.12	201.00	600.00	450.00	370.00
Sodium adsorption ratio	24	40.58	8.27	22.23	9.05	29.88	22.09	15.99
Sodium (percent)	24	97.18	16.00	83.45	18.85	94.52	91.30	78.20
Potassium, dissolved (mg/L as K)	24	25.00	1.50	7.70	4.73	9.05	6.45	5.35
Chloride, dissolved (mg/L as Cl)	25	51.00	1.00	14.96	13.65	16.00	9.80	6.30
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	25	4700.00	234.00	876.32	935.38	910.00	460.00	389.00
Fluoride, dissolved (mg/L as F)	23	1.90	0.30	1.05	0.49	1.60	1.00	0.60
Silica, dissolved (mg/L as SiO <sub>2</sub> )	22	9.50	2.60	7.58	1.83	9.20	7.90	7.30
Arsenic, dissolved (µg/L as As)	4	1.00	0.00	--	--	--	--	--
Arsenic, suspended, total (µg/L as As)	2	3.00	1.00	--	--	--	--	--
Arsenic, total (µg/L as As)	2	3.00	2.00	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	4	100.00	0.00	--	--	--	--	--
Beryllium, suspended, recoverable (µg/L as Be)	2	0.00	0.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	15	1300.00	0.00	713.33	416.01	930.00	910.00	220.00
Cadmium, dissolved (µg/L as Cd)	2	1.00	0.00	--	--	--	--	--
Chromium, dissolved (µg/L as Cr)	1	0.00	0.00	--	--	--	--	--
Chromium, suspended (µg/L as Cr)	2	0.00	0.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	4	25.00	2.00	--	--	--	--	--
Copper, suspended (µg/L as Cu)	1	5.00	5.00	--	--	--	--	--
Copper, total (µg/L as Cu)	1	30.00	30.00	--	--	--	--	--
Iron, total (µg/L as Fe)	5	3700.00	60.00	1442.00	1593.78	2500.00	760.00	190.00
Iron, dissolved (µg/L as Fe)	20	1500.00	20.00	212.35	337.70	230.00	85.00	38.00
Lead, dissolved (µg/L as Pb)	7	45.00	0.00	14.71	16.91	30.00	5.00	3.00
Lead, total (µg/L as Pb)	1	6.00	6.00	--	--	--	--	--
Manganese, suspended (µg/L as Mn)	2	0.00	0.00	--	--	--	--	--
Manganese, total (µg/L as Mn)	2	80.00	50.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	20	140.00	40.00	79.20	27.01	89.00	80.00	60.00
Molybdenum, dissolved (µg/L as Mo)	11	13.00	1.00	4.36	4.34	6.00	2.00	1.00
Molybdenum, suspended (µg/L as Mo)	2	2.00	1.00	--	--	--	--	--
Molybdenum, total (µg/L as Mo)	2	3.00	3.00	--	--	--	--	--
Nickel, dissolved (µg/L as Ni)	4	14.00	1.00	--	--	--	--	--
Silver, dissolved (µg/L as Ag)	1	0.00	0.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	12	4800.00	190.00	1192.50	1421.76	1800.00	525.00	240.00
Vanadium, dissolved (µg/L as V)	1	24.00	24.00	--	--	--	--	--

## Summary of water-quality data, May 24, 1974, through June 22, 1991--Continued

Water-quality constituent	Descriptive statistics						Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation		75	Median 50	25
Zinc, dissolved (µg/L as Zn)	5	2000.00	70.00	539.80	822.79		310.00	240.00	79.00
Zinc, suspended (µg/L as Zn)	2	20.00	0.00	--	--		--	--	--
Zinc, total (µg/L as Zn)	2	2000.00	260.00	--	--		--	--	--
Antimony dissolved (µg/L as Sb)	1	0.00	0.00	--	--		--	--	--
Aluminum, total (µg/L as Al)	2	300.00	100.00	--	--		--	--	--
Aluminum, dissolved (µg/L as Al)	3	190.00	10.00	--	--		--	--	--
Aluminum, suspended (µg/L as Al)	2	110.00	20.00	--	--		--	--	--
Lithium, dissolved (µg/L as Li)	14	200.00	10.00	56.93	48.96		70.00	40.00	31.00
Lithium, suspended (µg/L as Li)	2	0.00	0.00	--	--		--	--	--
Lithium, total (µg/L as Li)	2	10.00	10.00	--	--		--	--	--
Selenium, dissolved (µg/L as Se)	4	2.00	0.00	--	--		--	--	--
Selenium, suspended (µg/L as Se)	2	0.00	0.00	--	--		--	--	--
Selenium, total (µg/L as Se)	2	0.00	0.00	--	--		--	--	--
Alkalinity, water, dissolved, total, incremental titration, field (mg/L as CaCO <sub>3</sub> )	2	542.00	502.00	--	--		--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	25	7250.00	811.00	1829.32	1344.53		1890.00	1310.00	1150.00
Solids, sum of constituents, dissolved (mg/L)	24	6919.97	708.36	1757.16	1300.20		1895.54	1229.12	1109.63
Solids, dissolved (tons per acre-foot)	23	9.86	1.10	2.54	1.90		2.73	1.78	1.56
Nitrogen, ammonia, dissolved (mg/L as NH <sub>4</sub> )	3	0.69	0.39	--	--		--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	2	1.70	1.00	--	--		--	--	--
Nitrogen, nitrite, dissolved (mg/L as NO <sub>2</sub> )	3	0.43	0.10	--	--		--	--	--
Mercury, dissolved (µg/L as Hg)	1	0.00	0.00	--	--		--	--	--
Mercury, suspended, recoverable (µg/L as Hg)	2	0.00	0.00	--	--		--	--	--
Depth of well, total (feet)	10	74.00	74.00	74.00	0.00		74.00	74.00	74.00
Depth below land surface, water level (feet)	16	26.35	10.90	23.63	4.01		25.67	24.80	24.00
Carbon, 13/12 ratio per mil	2	-10.30	-10.30	--	--		--	--	--
Sulfur, 34/32 ratio per mil	2	-13.30	-13.80	--	--		--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	15	7410.00	1430.00	2968.67	1506.73		3670.00	2650.00	1760.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	22	730.00	380.00	484.73	92.45		514.00	462.00	413.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	1	374.00	374.00	--	--		--	--	--
Bicarbonate, titration to pH 4.5, laboratory (mg/L as HCO <sub>3</sub> )	3	717.00	472.00	--	--		--	--	--
Carbonate, titration to pH 8.3, laboratory (mg/L as CO <sub>3</sub> )	2	39.00	19.00	--	--		--	--	--
Hardness, noncarbonate (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--		--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461355103070201; local identifier, 131-099-19CCCC; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, May 9, 1974, through October 15, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sampling depth (feet)	1	80.00	80.00	--	--	--	--	--
Water temperature (degrees Celsius)	4	10.00	9.00	--	--	--	--	--
Agency collecting sample (code number)	2	80020.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	2	80020.00	1028.00	--	--	--	--	--
Turbidity (JCU)	1	3.00	3.00	--	--	--	--	--
Turbidity (NTU)	1	120.00	120.00	--	--	--	--	--
Color (platinum cobalt scale)	1	20.00	20.00	--	--	--	--	--
Specific conductance (uS/cm at 25 degrees Celsius)	4	3410.00	2000.00	--	--	--	--	--
pH, water, whole, field (standard units)	4	8.70	7.10	--	--	--	--	--
pH, water, whole, laboratory (standard units)	2	7.90	7.50	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO2)	2	79.00	2.40	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO3)	3	507.00	410.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO3)	2	618.00	525.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO3)	2	0.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	1	0.05	0.05	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	2	0.12	0.03	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	1.90	1.90	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	17.00	17.00	--	--	--	--	--
Carbon, organic, suspended, total (mg/L as C)	1	3.50	3.50	--	--	--	--	--
Hardness, total (mg/L as CaCO3)	4	779.72	31.49	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO3)	4	370.00	0.00	--	--	--	--	--
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO3)	3	370.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	4	160.00	7.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	4	94.00	3.40	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	4	620.00	440.00	--	--	--	--	--
Sodium adsorption ratio	4	34.13	8.76	--	--	--	--	--
Sodium (percent)	4	96.36	59.58	--	--	--	--	--
Potassium, dissolved (mg/L as K)	4	42.00	3.70	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	4	48.00	6.30	--	--	--	--	--
Sulfate, dissolved (mg/L as SO4)	4	1600.00	340.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	4	1.60	0.40	--	--	--	--	--
Silica, dissolved (mg/L as SiO2)	4	12.00	7.90	--	--	--	--	--
Arsenic, dissolved (ug/L as As)	1	0.00	0.00	--	--	--	--	--

## Summary of water-quality data, May 9, 1974, through October 15, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Arsenic, suspended, total ( $\mu\text{g/L}$ as As)	1	3.00	3.00	--	--	--	--	--
Arsenic, total ( $\mu\text{g/L}$ as As)	1	3.00	3.00	--	--	--	--	--
Barium, dissolved ( $\mu\text{g/L}$ as Ba)	1	100.00	100.00	--	--	--	--	--
Beryllium, dissolved ( $\mu\text{g/L}$ as Be)	1	0.00	0.00	--	--	--	--	--
Beryllium, suspended, recoverable ( $\mu\text{g/L}$ as Be)	1	0.00	0.00	--	--	--	--	--
Cadmium, dissolved ( $\mu\text{g/L}$ as Cd)	1	0.00	0.00	--	--	--	--	--
Chromium, dissolved ( $\mu\text{g/L}$ as Cr)	1	0.00	0.00	--	--	--	--	--
Chromium, suspended ( $\mu\text{g/L}$ as Cr)	1	0.00	0.00	--	--	--	--	--
Cobalt, dissolved ( $\mu\text{g/L}$ as Co)	1	0.00	0.00	--	--	--	--	--
Copper, dissolved ( $\mu\text{g/L}$ as Cu)	2	7.00	0.00	--	--	--	--	--
Iron, total ( $\mu\text{g/L}$ as Fe)	1	190.00	190.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	3	1400.00	90.00	--	--	--	--	--
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	2	5.00	0.00	--	--	--	--	--
Manganese, suspended ( $\mu\text{g/L}$ as Mn)	1	0.00	0.00	--	--	--	--	--
Manganese, total ( $\mu\text{g/L}$ as Mn)	1	50.00	50.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	3	410.00	50.00	--	--	--	--	--
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	2	2.00	1.00	--	--	--	--	--
Molybdenum, suspended ( $\mu\text{g/L}$ as Mo)	1	1.00	1.00	--	--	--	--	--
Molybdenum, total ( $\mu\text{g/L}$ as Mo)	1	3.00	3.00	--	--	--	--	--
Nickel, dissolved ( $\mu\text{g/L}$ as Ni)	2	8.00	0.00	--	--	--	--	--
Silver, dissolved ( $\mu\text{g/L}$ as Ag)	1	0.00	0.00	--	--	--	--	--
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	2	4900.00	4600.00	--	--	--	--	--
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	2	240.00	30.00	--	--	--	--	--
Zinc, suspended ( $\mu\text{g/L}$ as Zn)	1	20.00	20.00	--	--	--	--	--
Zinc, total ( $\mu\text{g/L}$ as Zn)	1	260.00	260.00	--	--	--	--	--
Antimony dissolved ( $\mu\text{g/L}$ as Sb)	1	0.00	0.00	--	--	--	--	--
Aluminum, total ( $\mu\text{g/L}$ as Al)	1	300.00	300.00	--	--	--	--	--
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	2	190.00	0.00	--	--	--	--	--
Aluminum, suspended ( $\mu\text{g/L}$ as Al)	1	110.00	110.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	1	90.00	90.00	--	--	--	--	--
Lithium, suspended ( $\mu\text{g/L}$ as Li)	1	0.00	0.00	--	--	--	--	--
Selenium, dissolved ( $\mu\text{g/L}$ as Se)	1	0.00	0.00	--	--	--	--	--
Selenium, suspended ( $\mu\text{g/L}$ as Se)	1	0.00	0.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	4	2698.00	1240.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	4	2719.30	1110.33	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	4	3.67	1.69	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	1	0.20	0.20	--	--	--	--	--
Mercury, dissolved ( $\mu\text{g/L}$ as Hg)	1	0.00	0.00	--	--	--	--	--

Site number, 461355103070201

Summary of water-quality data, May 9, 1974, through October 15, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Mercury, suspended, recoverable ( $\mu\text{g/L}$ as Hg)	1	0.00	0.00	--	--	--	--	--
Depth of well, total (feet)	4	80.00	80.00	--	--	--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	2	3440.00	2710.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	3	620.00	410.00	--	--	--	--	--
Bicarbonate, titration to pH 4.5, laboratory (mg/L as $\text{HCO}_3$ )	1	525.00	525.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461402103031801; local identifier, 131-099-22CCB; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, April 25, 1974, through April 14, 1976

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	5	9.50	5.00	7.30	1.61	7.50	7.50	7.00
Turbidity (JCU)	1	1.00	1.00	--	--	--	--	--
Color (platinum cobalt scale)	1	4000.00	4000.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	5	3100.00	1860.00	2396.00	551.25	2800.00	2340.00	1880.00
pH, water, whole, field (standard units)	5	9.00	8.70	8.78	0.13	8.80	8.72	8.70
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	5	3.10	1.70	2.68	0.58	3.00	3.00	2.60
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	870.00	763.00	815.80	42.09	844.00	809.00	793.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	5	934.00	788.00	867.20	58.17	914.00	853.00	847.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	5	98.00	41.00	62.80	22.88	72.00	56.00	47.00
Nitrogen, total (mg/L as N)	3	6.13	1.64	--	--	--	--	--
Nitrogen, organic, total (mg/L as N)	3	5.23	0.00	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as N)	3	0.98	0.13	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	3	6.10	0.93	--	--	--	--	--
Nitrogen, nitrite plus nitrate, total (mg/L as N)	3	0.71	0.03	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	3	1.53	0.25	--	--	--	--	--
Phosphorus, total (mg/L as P)	3	0.74	0.20	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	1.60	1.60	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	3	0.50	0.08	--	--	--	--	--
Carbon, organic, total (mg/L as C)	1	0.70	0.70	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	4	46.00	0.10	--	--	--	--	--
Carbon, organic, suspended, total (mg/L as C)	4	6.00	0.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	5	336.82	27.65	183.28	140.40	325.79	134.07	92.07
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Calcium, dissolved (mg/L as Ca)	5	57.00	7.70	32.34	20.20	49.00	24.00	24.00
Magnesium, dissolved (mg/L as Mg)	5	49.00	2.00	24.76	21.99	47.00	18.00	7.80
Sodium, dissolved (mg/L as Na)	5	600.00	420.00	494.00	73.35	520.00	500.00	430.00
Sodium adsorption ratio	5	34.88	12.35	20.00	8.83	19.50	18.79	14.50
Sodium (percent)	5	96.75	76.80	86.46	8.15	90.53	88.52	79.70
Potassium, dissolved (mg/L as K)	5	6.70	2.50	4.80	1.54	5.50	4.70	4.60
Chloride, dissolved (mg/L as Cl)	5	68.00	17.00	37.60	26.86	66.00	19.00	18.00
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	5	750.00	98.00	401.60	317.13	710.00	350.00	100.00
Fluoride, dissolved (mg/L as F)	5	5.20	3.80	4.30	0.62	4.70	3.90	3.90

## Summary of water-quality data, April 25, 1974, through April 14, 1976--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Silica, dissolved (mg/L as SiO <sub>2</sub> )	5	13.00	7.70	10.26	1.94	11.00	10.00	9.60
Arsenic, dissolved (µg/L as As)	4	6.00	2.00	--	--	--	--	--
Arsenic, suspended, total (µg/L as As)	3	10.00	3.00	--	--	--	--	--
Arsenic, total (µg/L as As)	4	14.00	5.00	--	--	--	--	--
Barium, suspended, recoverable (µg/L as Ba)	3	0.00	0.00	--	--	--	--	--
Beryllium, dissolved (µg/L as Be)	1	10.00	10.00	--	--	--	--	--
Beryllium, suspended, recoverable (µg/L as Be)	4	10.00	0.00	--	--	--	--	--
Beryllium, total (µg/L as Be)	2	10.00	10.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	3	1300.00	270.00	--	--	--	--	--
Cadmium, dissolved (µg/L as Cd)	1	2.00	2.00	--	--	--	--	--
Cadmium, suspended (µg/L as Cd)	1	0.00	0.00	--	--	--	--	--
Chromium, dissolved (µg/L as Cr)	1	2.00	2.00	--	--	--	--	--
Chromium, suspended (µg/L as Cr)	3	0.00	0.00	--	--	--	--	--
Chromium, total (µg/L as Cr)	1	2.00	2.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	4	8.00	3.00	--	--	--	--	--
Copper, suspended (µg/L as Cu)	4	7.00	2.00	--	--	--	--	--
Iron, total (µg/L as Fe)	4	1100.00	390.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	5	770.00	140.00	484.00	273.55	660.00	600.00	250.00
Lead, dissolved (µg/L as Pb)	4	16.00	5.00	--	--	--	--	--
Manganese, suspended (µg/L as Mn)	4	20.00	0.00	--	--	--	--	--
Manganese, total (µg/L as Mn)	4	220.00	90.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	5	230.00	60.00	124.00	64.65	130.00	110.00	90.00
Molybdenum, dissolved (µg/L as Mo)	4	9.00	3.00	--	--	--	--	--
Molybdenum, suspended (µg/L as Mo)	4	6.00	0.00	--	--	--	--	--
Molybdenum, total (µg/L as Mo)	4	12.00	7.00	--	--	--	--	--
Nickel, dissolved (µg/L as Ni)	3	38.00	4.00	--	--	--	--	--
Nickel, suspended (µg/L as Ni)	2	140.00	12.00	--	--	--	--	--
Nickel, total (µg/L as Ni)	2	150.00	50.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	3	1400.00	160.00	--	--	--	--	--
Strontium, suspended (µg/L as Sr)	3	20.00	0.00	--	--	--	--	--
Strontium, total (µg/L as Sr)	3	1300.00	180.00	--	--	--	--	--
Vanadium, dissolved (µg/L as V)	2	24.00	1.40	--	--	--	--	--
Zinc, dissolved (µg/L as Zn)	4	550.00	270.00	--	--	--	--	--
Zinc, suspended (µg/L as Zn)	4	1500.00	20.00	--	--	--	--	--
Zinc, total (µg/L as Zn)	4	1900.00	290.00	--	--	--	--	--
Aluminum, total (µg/L as Al)	4	700.00	180.00	--	--	--	--	--
Aluminum, dissolved (µg/L as Al)	4	120.00	40.00	--	--	--	--	--
Aluminum, suspended (µg/L as Al)	4	660.00	60.00	--	--	--	--	--



## Summary of water-quality data, April 25, 1974, through April 14, 1976--Continued

Water-quality constituent	Descriptive statistics						Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation		75	Median 50	25
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	4	50.00	20.00	--	--		--	--	--
Lithium, suspended ( $\mu\text{g/L}$ as Li)	4	10.00	0.00	--	--		--	--	--
Lithium, total ( $\mu\text{g/L}$ as Li)	4	50.00	20.00	--	--		--	--	--
Selenium, suspended ( $\mu\text{g/L}$ as Se)	3	0.00	0.00	--	--		--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	5	2070.00	1140.00	1602.00	361.28		1840.00	1520.00	1440.00
Solids, sum of constituents, dissolved (mg/L)	5	1949.39	1073.48	1501.44	400.11		1847.83	1504.61	1131.89
Solids, dissolved (tons per acre-foot)	5	2.82	1.55	2.18	0.49		2.50	2.07	1.96
Bromide, dissolved (mg/L as Br)	3	0.30	0.10	--	--		--	--	--
Nitrogen, total (mg/L as $\text{NO}_3$ )	3	27.14	7.26	--	--		--	--	--
Mercury, dissolved ( $\mu\text{g/L}$ as Hg)	1	1.60	1.60	--	--		--	--	--
Mercury, suspended, recoverable ( $\mu\text{g/L}$ as Hg)	4	1.80	0.00	--	--		--	--	--
Mercury, total, recoverable ( $\mu\text{g/L}$ as Hg)	2	3.40	0.50	--	--		--	--	--
Depth of well, total (feet)	5	167.00	167.00	167.00	0.00		167.00	167.00	167.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	5	870.00	763.00	815.80	42.09		844.00	809.00	793.00

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461452102194601; local identifier, 132-093-21BBB; county code, 041.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2510.00 feet.

Summary of water-quality data, October 7, 1976, through June 23, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	7	12.00	8.00	9.86	1.60	11.50	9.00	8.50
Temperature, air (degrees Celsius)	2	31.00	31.00	--	--	--	--	--
Agency analyzing sample (code number)	6	80020.00	80020.00	80020.00	0.00	80020.00	80020.00	80020.00
Turbidity (JCU)	1	6.00	6.00	--	--	--	--	--
Turbidity (NTU)	2	1.00	0.50	--	--	--	--	--
Color (platinum cobalt scale)	1	8.00	8.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	7	2700.00	2420.00	2607.14	105.63	2700.00	2600.00	2530.00
pH, water, whole, field (standard units)	7	8.30	8.00	8.19	0.14	8.30	8.20	8.00
pH, water, whole, laboratory (standard units)	2	8.20	8.20	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	11.00	11.00	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	580.00	560.00	571.20	10.35	580.00	576.00	560.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	702.00	702.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	0.22	0.22	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.51	0.51	--	--	--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	7	1.20	0.53	0.82	0.25	1.10	0.78	0.59
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.07	0.07	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.10	0.10	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	6.30	6.30	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	7	197.24	181.51	189.63	5.99	196.25	188.13	185.52
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	7	29.00	26.00	27.14	1.35	29.00	27.00	26.00
Magnesium, dissolved (mg/L as Mg)	7	31.00	28.00	29.29	0.95	30.00	29.00	29.00
Sodium, dissolved (mg/L as Na)	7	600.00	540.00	575.71	20.70	600.00	570.00	570.00
Sodium adsorption ratio	7	18.85	17.19	18.26	0.58	18.65	18.48	17.76
Sodium (percent)	7	86.90	85.85	86.47	0.42	86.78	86.56	85.93
Sodium plus potassium, dissolved (mg/L as Na)	4	610.00	580.00	--	--	--	--	--
Potassium, dissolved (mg/L as K)	7	6.60	5.30	5.91	0.54	6.50	5.70	5.40
Chloride, dissolved (mg/L as Cl)	7	10.00	1.80	4.63	2.92	6.80	3.20	2.40
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	7	920.00	790.00	838.57	48.11	890.00	820.00	800.00
Fluoride, dissolved (mg/L as F)	7	0.80	0.50	0.59	0.12	0.70	0.50	0.50
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	7.70	7.40	7.56	0.10	7.60	7.60	7.50

## Summary of water-quality data, October 7, 1976, through June 23, 1981--Continued

Water-quality constituent	Descriptive statistics						Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation		75	Median	25
Arsenic, dissolved ( $\mu\text{g/L}$ as As)	1	2.00	2.00	--	--		--	--	--
Beryllium, dissolved ( $\mu\text{g/L}$ as Be)	1	10.00	10.00	--	--		--	--	--
Boron, dissolved ( $\mu\text{g/L}$ as B)	7	940.00	870.00	910.00	27.08		930.00	920.00	880.00
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	7	340.00	30.00	142.86	129.32		320.00	80.00	70.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	1	2.00	2.00	--	--		--	--	--
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	7	40.00	20.00	22.86	7.56		20.00	20.00	20.00
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	7	4.00	1.00	2.57	0.98		3.00	3.00	2.00
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	7	1100.00	1000.00	1071.43	48.79		1100.00	1100.00	1000.00
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	1	1.20	1.20	--	--		--	--	--
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	1	20.00	20.00	--	--		--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	1	70.00	70.00	--	--		--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	1810.00	1740.00	--	--		--	--	--
Solids, sum of constituents, dissolved (mg/L)	7	1945.70	1768.24	1831.39	70.69		1914.65	1805.27	1779.56
Solids, dissolved (tons per acre-foot)	7	2.65	2.37	2.48	0.10		2.60	2.45	2.42
Nitrogen, ammonia, dissolved (mg/L as $\text{NH}_4$ )	1	0.66	0.66	--	--		--	--	--
Potassium 40, dissolved (pCi/L as K40)	2	4.00	4.00	--	--		--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	2	2610.00	2580.00	--	--		--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	2	560.00	550.00	--	--		--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461542101535902; local identifier, 132-090-14AAB2; county code, 037.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2340.00 feet.

Summary of water-quality data, June 29, 1973, through June 14, 1978

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	2	9.00	8.50	--	--	--	--	--
Agency analyzing sample (code number)	1	38002.00	38002.00	--	--	--	--	--
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	2	2620.00	2600.00	--	--	--	--	--
pH, water, whole, field (standard units)	1	8.20	8.20	--	--	--	--	--
Carbon dioxide, dissolved ( $\text{mg}/\text{L}$ as $\text{CO}_2$ )	1	6.50	6.50	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	2	529.00	527.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{HCO}_3$ )	2	643.00	639.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{CO}_3$ )	2	3.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved ( $\text{mg}/\text{L}$ as N)	2	0.23	0.23	--	--	--	--	--
Hardness, total ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	2	52.18	37.08	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved ( $\text{mg}/\text{L}$ as Ca)	2	11.00	9.90	--	--	--	--	--
Magnesium, dissolved ( $\text{mg}/\text{L}$ as Mg)	2	6.00	3.00	--	--	--	--	--
Sodium, dissolved ( $\text{mg}/\text{L}$ as Na)	2	610.00	600.00	--	--	--	--	--
Sodium adsorption ratio	2	43.60	36.15	--	--	--	--	--
Sodium (percent)	2	97.00	95.77	--	--	--	--	--
Potassium, dissolved ( $\text{mg}/\text{L}$ as K)	2	4.30	3.10	--	--	--	--	--
Chloride, dissolved ( $\text{mg}/\text{L}$ as Cl)	2	3.30	2.60	--	--	--	--	--
Sulfate, dissolved ( $\text{mg}/\text{L}$ as $\text{SO}_4$ )	2	820.00	800.00	--	--	--	--	--
Fluoride, dissolved ( $\text{mg}/\text{L}$ as F)	2	0.20	0.20	--	--	--	--	--
Silica, dissolved ( $\text{mg}/\text{L}$ as $\text{SiO}_2$ )	2	7.10	6.90	--	--	--	--	--
Boron, dissolved ( $\mu\text{g}/\text{L}$ as B)	2	380.00	340.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g}/\text{L}$ as Fe)	2	100.00	30.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g}/\text{L}$ as Mn)	2	1750.00	1720.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved ( $\text{mg}/\text{L}$ )	2	1775.16	1749.54	--	--	--	--	--
Solids, sum of constituents, dissolved ( $\text{mg}/\text{L}$ )	2	2.38	2.34	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	1	1.00	1.00	--	--	--	--	--
Nitrogen, nitrate, total ( $\text{mg}/\text{L}$ as $\text{NO}_3$ )	2	1.00	1.00	--	--	--	--	--
Nitrogen, nitrate, dissolved ( $\text{mg}/\text{L}$ as $\text{NO}_3$ )	1	10.00	10.00	--	--	--	--	--
Residual, sodium, carbonate ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	1	2340.00	2340.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	90.00	90.00	--	--	--	--	--
Depth of well, total (feet)	1			--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461548101052701; local identifier, 132-083-08DCD; county code, 085.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, August 31, 1972, through October 2, 1973

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	2	17.50	1.40	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	3	3000.00	1390.00	--	--	--	--	--
pH, water, whole, field (standard units)	3	8.20	7.50	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	2	3.80	2.60	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	2	306.00	208.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	3	373.00	244.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	3	0.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	3	0.56	0.23	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO <sub>4</sub> )	1	0.02	0.02	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	1	0.01	0.01	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	3	736.54	249.18	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	3	430.00	41.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	3	130.00	47.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	3	100.00	32.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	3	460.00	169.00	--	--	--	--	--
Sodium adsorption ratio	3	7.38	3.74	--	--	--	--	--
Sodium (percent)	3	63.97	47.92	--	--	--	--	--
Potassium, dissolved (mg/L as K)	3	12.00	6.50	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	3	18.00	0.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	3	1400.00	500.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	3	0.40	0.30	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	3	7.90	4.10	--	--	--	--	--
Boron, dissolved ( $\mu$ g/L as B)	3	520.00	170.00	--	--	--	--	--
Iron, dissolved ( $\mu$ g/L as Fe)	3	550.00	40.00	--	--	--	--	--
Manganese, dissolved ( $\mu$ g/L as Mn)	2	50.00	20.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	2390.00	997.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	3	2310.67	939.15	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	3	3.25	1.36	--	--	--	--	--
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	1	1.00	1.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	2	2.50	2.00	--	--	--	--	--
Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461614102495001; local identifier, 132-097-08DAA1; county code, 001.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TRVL.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, July 31, 1971, through January 3, 1977

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	1	9.00	9.00	--	--	--	--	--
Agency analyzing sample (code number)	1	38002.00	38002.00	--	--	--	--	--
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	2	1300.00	988.00	--	--	--	--	--
pH, water, whole, field (standard units)	2	8.30	7.60	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as $\text{CO}_2$ )	1	3.20	3.20	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as $\text{CaCO}_3$ )	1	323.00	323.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{HCO}_3$ )	2	394.00	354.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{CO}_3$ )	2	0.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	1	1.40	1.40	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as $\text{PO}_4$ )	1	0.00	0.00	--	--	--	--	--
Hardness, total (mg/L as $\text{CaCO}_3$ )	2	399.99	363.19	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as $\text{CaCO}_3$ )	2	77.00	74.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	91.00	81.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	48.00	33.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	88.00	77.00	--	--	--	--	--
Sodium adsorption ratio	2	2.01	1.68	--	--	--	--	--
Sodium (percent)	2	34.28	29.33	--	--	--	--	--
Potassium, dissolved (mg/L as K)	2	3.20	3.10	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	11.00	7.70	--	--	--	--	--
Sulfate, dissolved (mg/L as $\text{SO}_4$ )	2	245.00	200.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	0.50	0.10	--	--	--	--	--
Silica, dissolved (mg/L as $\text{SiO}_2$ )	2	15.00	13.00	--	--	--	--	--
Boron, dissolved ( $\mu\text{g}/\text{L}$ as B)	2	350.00	180.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g}/\text{L}$ as Fe)	2	160.00	40.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g}/\text{L}$ as Mn)	2	280.00	20.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	621.00	604.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	658.25	633.37	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	0.85	0.82	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as $\text{NO}_3$ )	2	6.10	1.00	--	--	--	--	--
Residual, sodium, carbonate (mg/L as $\text{CaCO}_3$ )	1	0.00	0.00	--	--	--	--	--
Depth of well, total (feet)	1	100.00	100.00	--	--	--	--	--
Depth to bottom of sample interval (feet below LSD)	1	100.00	100.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461614102515203; local identifier, 132-097-07CAB3; county code, 001.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125LDLW.

DATUM.--Altitude of land surface datum is 2665.00 feet.

Summary of water-quality data, October 29, 1971, through September 29, 1992

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	1	7.50	7.50	--	--	--	--	--
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	1	38002.00	38002.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	1	1500.00	1500.00	--	--	--	--	--
pH, water, whole, field (standard units)	2	8.50	7.85	--	--	--	--	--
pH, water, whole, laboratory (standard units)	1	7.71	7.71	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO3)	1	882.00	882.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO3)	1	20.00	20.00	--	--	--	--	--
Hardness, total (mg/L as CaCO3)	2	231.35	74.82	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO3)	1	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	58.00	26.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	21.00	2.40	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	374.00	59.00	--	--	--	--	--
Sodium adsorption ratio	2	18.82	1.69	--	--	--	--	--
Sodium (percent)	2	91.26	35.34	--	--	--	--	--
Potassium, dissolved (mg/L as K)	2	2.90	2.50	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	16.00	4.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO4)	2	104.00	82.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	5.50	0.20	--	--	--	--	--
Silica, dissolved (mg/L as SiO2)	2	13.00	9.60	--	--	--	--	--
Boron, dissolved (µg/L as B)	2	1200.00	120.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	2	1100.00	110.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	2	70.00	30.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	1010.00	446.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	996.01	416.43	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	1.37	0.61	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO3)	1	1.00	1.00	--	--	--	--	--
Residual, sodium, carbonate (mg/L as CaCO3)	1	14.00	14.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	2665.00	2665.00	--	--	--	--	--
Depth of well, total (feet)	1	229.00	229.00	--	--	--	--	--
Sampling method (codes)	1	4070.00	4070.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	1	676.00	676.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO3)	1	290.00	290.00	--	--	--	--	--

Site number, 461614102515203

Summary of water-quality data, October 29, 1971, through September 29, 1992--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Bicarbonate, titration to pH 4.5, laboratory (mg/L as HCO <sub>3</sub> )	1	358.00	358.00	--	--	--	--	--
Carbonate, titration to pH 8.3, laboratory (mg/L as CO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461625103004901; local identifier, 131-099-12BBB; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, May 16, 1974, through September 29, 1976

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sampling depth (feet)	1	169.00	169.00	--	--	--	--	--
Water temperature (degrees Celsius)	1	8.00	8.00	--	--	--	--	--
Color (platinum cobalt scale)	1	1.00	1.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	1	2350.00	2350.00	--	--	--	--	--
pH, water, whole, field (standard units)	1	8.40	8.40	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO2)	1	2.90	2.90	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO3)	2	451.00	377.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO3)	2	550.00	450.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO3)	2	5.00	0.00	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	2	0.56	0.03	--	--	--	--	--
Phosphate, orthophosphate, dissolved (mg/L as PO4)	1	0.31	0.31	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	2	0.38	0.13	--	--	--	--	--
Phosphorus, orthophosphate, dissolved (mg/L as P)	1	0.10	0.10	--	--	--	--	--
Hardness, total (mg/L as CaCO3)	2	163.30	111.73	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO3)	2	0.00	0.00	--	--	--	--	--
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO3)	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	39.00	20.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	16.00	15.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	480.00	470.00	--	--	--	--	--
Sodium adsorption ratio	2	19.76	16.01	--	--	--	--	--
Sodium (percent)	2	89.38	85.32	--	--	--	--	--
Potassium, dissolved (mg/L as K)	2	10.00	9.70	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	10.00	5.30	--	--	--	--	--
Sulfate, dissolved (mg/L as SO4)	2	790.00	650.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	2.20	1.10	--	--	--	--	--
Silica, dissolved (mg/L as SiO2)	2	8.60	5.50	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	2	1800.00	20.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	1	90.00	90.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	1600.00	1480.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	1571.12	1462.81	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	2.18	2.01	--	--	--	--	--
Depth of well, total (feet)	2	169.00	169.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO3)	2	451.00	377.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461722101063601; local identifier, 133-083-34CBC1; county code, 037.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--211HLCK.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, February 4, 1958, through December 1, 1971

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	2	2257.00	1560.00	--	--	--	--	--
pH, water, whole, field (standard units)	1	8.00	8.00	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	1	505.00	505.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{HCO}_3$ )	2	777.00	616.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{CO}_3$ )	2	0.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved ( $\text{mg}/\text{L}$ as N)	1	0.56	0.56	--	--	--	--	--
Hardness, total ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	2	291.15	57.90	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	1	0.00	0.00	--	--	--	--	--
Calcium, dissolved ( $\text{mg}/\text{L}$ as Ca)	2	77.00	18.40	--	--	--	--	--
Magnesium, dissolved ( $\text{mg}/\text{L}$ as Mg)	2	24.00	2.90	--	--	--	--	--
Sodium, dissolved ( $\text{mg}/\text{L}$ as Na)	1	265.00	265.00	--	--	--	--	--
Sodium adsorption ratio	1	6.76	6.76	--	--	--	--	--
Sodium (percent)	1	66.10	66.10	--	--	--	--	--
Potassium, dissolved ( $\text{mg}/\text{L}$ as K)	1	3.70	3.70	--	--	--	--	--
Chloride, dissolved ( $\text{mg}/\text{L}$ as Cl)	1	29.00	29.00	--	--	--	--	--
Sulfate, dissolved ( $\text{mg}/\text{L}$ as $\text{SO}_4$ )	1	195.00	195.00	--	--	--	--	--
Fluoride, dissolved ( $\text{mg}/\text{L}$ as F)	2	1.20	0.40	--	--	--	--	--
Silica, dissolved ( $\text{mg}/\text{L}$ as $\text{SiO}_2$ )	1	24.00	24.00	--	--	--	--	--
Boron, dissolved ( $\mu\text{g}/\text{L}$ as B)	1	930.00	930.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g}/\text{L}$ as Fe)	2	2400.00	1300.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g}/\text{L}$ as Mn)	1	160.00	160.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved ( $\text{mg}/\text{L}$ )	2	1368.00	1030.00	--	--	--	--	--
Solids, sum of constituents, dissolved ( $\text{mg}/\text{L}$ )	1	1006.94	1006.94	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	1	1.40	1.40	--	--	--	--	--
Nitrogen, nitrate, total ( $\text{mg}/\text{L}$ as $\text{NO}_3$ )	1	2.50	2.50	--	--	--	--	--
Residual, sodium, carbonate ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	1	7.00	7.00	--	--	--	--	--
Depth of well, total (feet)	2	213.00	213.00	--	--	--	--	--
Depth to bottom of sample interval (feet below LSD)	1	213.00	213.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461747102513401; local identifier, 133-097-34BBB; county code, 041.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125LDLW.

DATUM.--Altitude of land surface datum is 2733.00 feet.

Summary of water-quality data, October 25, 1968, through November 8, 1968

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	2	8.50	7.50	--	--	--	--	--
Color (platinum cobalt scale)	1	30.00	30.00	--	--	--	--	--
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	2	2420.00	2040.00	--	--	--	--	--
pH, water, whole, field (standard units)	2	9.70	8.90	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{HCO}_3$ )	2	1200.00	765.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{CO}_3$ )	1	82.00	82.00	--	--	--	--	--
Hardness, total ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	2	12.33	4.14	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	1	0.00	0.00	--	--	--	--	--
Calcium, dissolved ( $\text{mg}/\text{L}$ as $\text{Ca}$ )	2	2.30	1.00	--	--	--	--	--
Magnesium, dissolved ( $\text{mg}/\text{L}$ as $\text{Mg}$ )	2	1.60	0.40	--	--	--	--	--
Sodium, dissolved ( $\text{mg}/\text{L}$ as $\text{Na}$ )	2	600.00	538.00	--	--	--	--	--
Sodium adsorption ratio	2	128.26	66.67	--	--	--	--	--
Sodium (percent)	2	99.43	98.72	--	--	--	--	--
Potassium, dissolved ( $\text{mg}/\text{L}$ as $\text{K}$ )	2	2.60	2.20	--	--	--	--	--
Chloride, dissolved ( $\text{mg}/\text{L}$ as $\text{Cl}$ )	2	14.00	14.00	--	--	--	--	--
Sulfate, dissolved ( $\text{mg}/\text{L}$ as $\text{SO}_4$ )	2	91.00	23.00	--	--	--	--	--
Fluoride, dissolved ( $\text{mg}/\text{L}$ as $\text{F}$ )	2	4.50	3.80	--	--	--	--	--
Silica, dissolved ( $\text{mg}/\text{L}$ as $\text{SiO}_2$ )	2	2.70	0.60	--	--	--	--	--
Boron, dissolved ( $\mu\text{g}/\text{L}$ as $\text{B}$ )	2	1400.00	1400.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g}/\text{L}$ as $\text{Fe}$ )	2	70.00	0.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved ( $\text{mg}/\text{L}$ )	2	1500.00	1300.00	--	--	--	--	--
Solids, sum of constituents, dissolved ( $\text{mg}/\text{L}$ )	2	1261.81	1090.95	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	2.04	1.77	--	--	--	--	--
Nitrogen, nitrate, dissolved ( $\text{mg}/\text{L}$ as $\text{NO}_3$ )	2	1.00	1.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	2	2733.00	2733.00	--	--	--	--	--
Depth to top of water-bearing zone sampled (feet)	2	669.00	669.00	--	--	--	--	--
Depth of well, total (feet)	2	674.00	674.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461755102163001; local identifier, 133-092-29CCCC1; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2572.00 feet.

Summary of water-quality data, October 15, 1976, through June 24, 1981

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	7	23.00	9.00	12.14	4.95	13.00	10.00	10.00
Temperature, air (degrees Celsius)	2	26.00	26.00	--	--	--	--	--
Agency analyzing sample (code number)	6	80020.00	80020.00	80020.00	0.00	80020.00	80020.00	80020.00
Turbidity (JCU)	1	10.00	10.00	--	--	--	--	--
Turbidity (NTU)	2	35.00	29.00	--	--	--	--	--
Color (platinum cobalt scale)	1	45.00	45.00	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	7	2025.00	1750.00	1884.29	98.34	1975.00	1900.00	1780.00
pH, water, whole, field (standard units)	7	9.20	8.40	8.69	0.25	8.70	8.70	8.55
pH, water, whole, laboratory (standard units)	2	8.60	7.90	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	1.80	1.80	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	480.00	470.00	476.80	4.60	480.00	480.00	474.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	551.00	551.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	13.00	13.00	--	--	--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	0.52	0.52	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.35	0.35	--	--	--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	7	2.30	0.47	0.96	0.61	0.88	0.83	0.61
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.17	0.17	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.17	0.17	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	4.30	4.30	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	7	45.97	21.49	26.75	8.73	27.61	23.00	21.92
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	7	7.70	4.90	5.47	1.00	5.50	5.10	4.90
Magnesium, dissolved (mg/L as Mg)	7	6.40	2.20	3.06	1.54	3.50	2.30	2.20
Sodium, dissolved (mg/L as Na)	7	460.00	440.00	444.29	7.87	450.00	440.00	440.00
Sodium adsorption ratio	7	41.56	29.65	38.66	4.32	41.49	40.12	36.58
Sodium (percent)	7	97.42	95.26	96.96	0.78	97.38	97.30	96.78
Sodium plus potassium, dissolved (mg/L as Na)	4	450.00	440.00	--	--	--	--	--
Potassium, dissolved (mg/L as K)	7	3.90	2.80	3.31	0.33	3.50	3.30	3.20
Chloride, dissolved (mg/L as Cl)	7	6.60	4.20	4.99	0.88	5.70	4.70	4.20
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	7	590.00	510.00	522.86	29.84	520.00	510.00	510.00
Fluoride, dissolved (mg/L as F)	7	1.70	1.30	1.57	0.16	1.70	1.60	1.40
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	8.70	7.70	8.06	0.31	8.10	8.00	7.90

## Summary of water-quality data, October 15, 1976, through June 24, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Arsenic, dissolved ( $\mu\text{g/L}$ as As)	1	2.00	2.00	--	--	--	--	--
Boron, dissolved ( $\mu\text{g/L}$ as B)	7	710.00	640.00	665.71	22.99	680.00	660.00	650.00
Copper, dissolved ( $\mu\text{g/L}$ as Cu)	1	4.00	4.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	6	60.00	20.00	31.67	14.72	30.00	30.00	20.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	1	15.00	15.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	4	20.00	10.00	--	--	--	--	--
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	3	13.00	2.00	--	--	--	--	--
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	7	1800.00	170.00	431.43	606.15	330.00	180.00	180.00
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	1	1.90	1.90	--	--	--	--	--
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	1	30.00	30.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	1	30.00	30.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	1300.00	1270.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	7	1364.42	1257.59	1280.46	37.56	1275.16	1265.21	1262.91
Solids, dissolved (tons per acre-foot)	7	1.77	1.71	1.73	0.02	1.74	1.73	1.72
Nitrogen, ammonia, dissolved (mg/L as $\text{NH}_4$ )	1	0.45	0.45	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	2	2.50	2.10	--	--	--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	2	2030.00	1920.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	2	480.00	470.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462005101080001; local identifier, 133-083-17DAA; county code, 037.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--112BGFV.

DATUM.--Altitude of land surface datum is 1842.00 feet.

Summary of water-quality data, November 12, 1971, through July 6, 1978

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	2	9.00	8.50	--	--	--	--	--
Agency analyzing sample (code number)	1	38002.00	38002.00	--	--	--	--	--
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	2	19000.00	18000.00	--	--	--	--	--
pH, water, whole, field (standard units)	1	8.10	8.10	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as $\text{CaCO}_3$ )	1	653.00	653.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{HCO}_3$ )	2	831.00	796.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{CO}_3$ )	2	0.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	2	0.45	0.23	--	--	--	--	--
Hardness, total (mg/L as $\text{CaCO}_3$ )	2	189.02	107.00	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as $\text{CaCO}_3$ )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	46.00	28.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	18.00	9.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	420.00	370.00	--	--	--	--	--
Sodium adsorption ratio	2	17.67	11.71	--	--	--	--	--
Sodium (percent)	2	89.14	80.09	--	--	--	--	--
Potassium, dissolved (mg/L as K)	2	8.80	3.40	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	43.00	41.00	--	--	--	--	--
Sulfate, dissolved (mg/L as $\text{SO}_4$ )	2	281.00	250.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	2.00	1.20	--	--	--	--	--
Silica, dissolved (mg/L as $\text{SiO}_2$ )	2	26.00	19.00	--	--	--	--	--
Boron, dissolved ( $\mu\text{g}/\text{L}$ as B)	2	1600.00	1500.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g}/\text{L}$ as Fe)	2	820.00	240.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g}/\text{L}$ as Mn)	2	270.00	0.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	1210.00	1150.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	1224.42	1149.40	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	1.65	1.56	--	--	--	--	--
Nitrogen, nitrate, total (mg/L as $\text{NO}_3$ )	1	1.00	1.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as $\text{NO}_3$ )	1	2.00	2.00	--	--	--	--	--
Residual, sodium, carbonate (mg/L as $\text{CaCO}_3$ )	1	11.00	11.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	1842.00	1842.00	--	--	--	--	--
Depth of well, total (feet)	1	244.00	244.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462043101102101; local identifier, 133-083-07CCB1; county code, 037.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--112BGFV.

DATUM.--Altitude of land surface datum is 1885.00 feet.

Summary of water-quality data, November 11, 1971, through July 6, 1978

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	2	9.00	8.50	--	--	--	--	--
Agency analyzing sample (code number)	1	38002.00	38002.00	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	2	1710.00	1700.00	--	--	--	--	--
pH, water, whole, field (standard units)	1	8.10	8.10	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	1	526.00	526.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	2	641.00	623.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	2	0.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	1	0.23	0.23	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	2	90.88	90.83	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	26.00	24.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	7.50	6.30	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	380.00	377.00	--	--	--	--	--
Sodium adsorption ratio	2	17.35	17.21	--	--	--	--	--
Sodium (percent)	2	89.72	89.63	--	--	--	--	--
Potassium, dissolved (mg/L as K)	2	3.20	3.10	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	4.70	2.50	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	2	372.00	370.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	1.50	1.30	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	2	22.00	22.00	--	--	--	--	--
Boron, dissolved ( $\mu$ g/L as B)	2	980.00	880.00	--	--	--	--	--
Iron, dissolved ( $\mu$ g/L as Fe)	2	3200.00	430.00	--	--	--	--	--
Manganese, dissolved ( $\mu$ g/L as Mn)	2	180.00	0.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	1140.00	1110.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	1129.27	1122.01	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	1.55	1.51	--	--	--	--	--
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	1	1.00	1.00	--	--	--	--	--
Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	1	8.00	8.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	1885.00	1885.00	--	--	--	--	--
Depth of well, total (feet)	1	124.00	124.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462116102514401; local identifier, 133-097-09AAA1; county code, 041.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2690.00 feet.

Summary of water-quality data, November 1, 1967, through September 28, 1971

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	2	8.50	8.00	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	2	934.00	904.00	--	--	--	--	--
pH, water, whole, field (standard units)	2	8.30	8.20	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	2	4.80	3.80	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	2	390.00	386.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	2	476.00	462.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	2	4.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	2	0.23	0.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	2	77.03	65.11	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	17.00	16.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	9.00	5.50	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	201.00	190.00	--	--	--	--	--
Sodium adsorption ratio	2	10.84	9.42	--	--	--	--	--
Sodium (percent)	2	86.13	83.47	--	--	--	--	--
Potassium, dissolved (mg/L as K)	2	4.20	3.80	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	4.60	2.70	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	2	110.00	108.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	0.70	0.50	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	2	10.00	9.70	--	--	--	--	--
Boron, dissolved ( $\mu$ g/L as B)	2	530.00	0.54	--	--	--	--	--
Iron, total ( $\mu$ g/L as Fe)	1	0.98	0.98	--	--	--	--	--
Iron, dissolved ( $\mu$ g/L as Fe)	2	980.00	0.00	--	--	--	--	--
Manganese, dissolved ( $\mu$ g/L as Mn)	1	10.00	10.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	566.00	524.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	585.83	574.62	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	0.77	0.71	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	2	1.00	0.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	2690.00	2690.00	--	--	--	--	--
Depth to top of water-bearing zone sampled (feet)	1	58.00	58.00	--	--	--	--	--
Depth of well, total (feet)	2	81.00	81.00	--	--	--	--	--



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462116102514402; local identifier, 133-097-09AAA2; county code, 041.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2690.00 feet.

Summary of water-quality data, December 5, 1967, through September 28, 1971

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	2	10.00	7.00	--	--	--	--	--
Color (platinum cobalt scale)	1	100.00	100.00	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	2	1140.00	1140.00	--	--	--	--	--
pH, water, whole, field (standard units)	2	8.50	8.20	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	2	5.90	3.00	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	2	479.00	479.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	2	584.00	547.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	2	18.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	2	0.23	0.23	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	2	44.22	35.14	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	8.80	8.30	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	5.40	3.50	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	266.00	260.00	--	--	--	--	--
Sodium adsorption ratio	2	19.09	17.41	--	--	--	--	--
Sodium (percent)	2	93.36	92.34	--	--	--	--	--
Potassium, dissolved (mg/L as K)	2	4.00	3.00	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	4.40	3.50	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	2	140.00	134.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	0.90	0.60	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	2	10.00	9.40	--	--	--	--	--
Boron, dissolved ( $\mu$ g/L as B)	2	1000.00	0.68	--	--	--	--	--
Iron, total ( $\mu$ g/L as Fe)	1	1.60	1.60	--	--	--	--	--
Iron, dissolved ( $\mu$ g/L as Fe)	2	1600.00	240.00	--	--	--	--	--
Manganese, dissolved ( $\mu$ g/L as Mn)	1	30.00	30.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	749.00	704.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	721.97	718.85	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	1.02	0.96	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	2	1.00	1.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	2690.00	2690.00	--	--	--	--	--
Depth to top of water-bearing zone sampled (feet)	1	189.00	189.00	--	--	--	--	--
Depth of well, total (feet)	2	221.00	221.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462134103052201; local identifier, 133-099-02CBB; county code, 087.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--211HCFH.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, August 29, 1974, through June 26, 1975

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown	
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50 25
Water temperature (degrees Celsius)	1	13.00	13.00	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	2	1920.00	1900.00	--	--	--	--
pH, water, whole, field (standard units)	2	8.70	8.60	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	2	3.90	3.10	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	2	787.00	784.00	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	2	891.00	890.00	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	2	34.00	32.00	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	2	0.36	0.23	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	2	13.33	12.17	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	2.70	2.40	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	1.60	1.50	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	480.00	470.00	--	--	--	--
Sodium adsorption ratio	2	59.88	56.02	--	--	--	--
Sodium (percent)	2	98.73	98.54	--	--	--	--
Potassium, dissolved (mg/L as K)	2	1.40	1.00	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	80.00	80.00	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	2	150.00	140.00	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	4.00	3.80	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	2	9.80	9.40	--	--	--	--
Boron, dissolved ( $\mu$ g/L as B)	2	1800.00	1700.00	--	--	--	--
Iron, dissolved ( $\mu$ g/L as Fe)	2	750.00	310.00	--	--	--	--
Manganese, dissolved ( $\mu$ g/L as Mn)	1	40.00	40.00	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	1240.00	1230.00	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	1202.55	1183.98	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	1.69	1.67	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	2	1.60	1.00	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462139101514301; local identifier, 133-089-04DAD; county code, 037.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--211HLCK.

DATUM.--Altitude of land surface datum is 2120.00 feet.

Summary of water-quality data, November 14, 1972, through June 14, 1978

Water-quality constituent	Sample size	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation		75	Median 50	25
Sampling depth (feet)	1	612.00	612.00	--	--		--	--	--
Water temperature (degrees Celsius)	5	12.00	7.50	10.60	1.85		12.00	11.00	10.50
Agency analyzing sample (code number)	1	38002.00	38002.00	--	--		--	--	--
Color (platinum cobalt scale)	1	20.00	20.00	--	--		--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	5	2100.00	1970.00	2020.00	49.50		2020.00	2020.00	1990.00
pH, water, whole, field (standard units)	3	8.60	8.40	--	--		--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	3	7.60	4.80	--	--		--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	1060.00	963.00	996.60	37.57		998.00	983.00	979.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	5	1210.00	1070.00	1136.00	54.13		1160.00	1140.00	1100.00
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	5	61.00	19.00	38.80	14.96		40.00	38.00	36.00
Nitrogen, nitrate, dissolved (mg/L as N)	3	0.23	0.23	--	--		--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.03	0.03	--	--		--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.13	0.13	--	--		--	--	--
Cyanide, total (mg/L as Cn)	1	0.00	0.00	--	--		--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	5	12.11	7.14	9.57	2.13		11.45	8.97	8.19
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	5	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Calcium, dissolved (mg/L as Ca)	5	3.20	2.20	2.70	0.44		3.10	2.60	2.40
Magnesium, dissolved (mg/L as Mg)	5	1.00	0.40	0.68	0.26		0.90	0.60	0.50
Sodium, dissolved (mg/L as Na)	5	550.00	480.00	514.20	26.99		530.00	511.00	500.00
Sodium adsorption ratio	5	83.22	68.17	73.29	6.03		73.61	72.68	68.78
Sodium (percent)	5	99.17	98.86	99.00	0.13		99.06	99.01	98.88
Potassium, dissolved (mg/L as K)	5	1.70	1.30	1.46	0.17		1.50	1.50	1.30
Chloride, dissolved (mg/L as Cl)	5	110.00	100.00	102.60	4.34		103.00	100.00	100.00
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	5	6.30	1.60	2.84	1.97		2.50	2.10	1.70
Fluoride, dissolved (mg/L as F)	5	7.80	3.80	4.86	1.67		4.60	4.20	3.90
Silica, dissolved (mg/L as SiO <sub>2</sub> )	5	11.00	8.30	9.60	1.00		10.00	9.50	9.20
Boron, dissolved (µg/L as B)	5	2700.00	1800.00	2240.00	336.15		2400.00	2200.00	2100.00
Copper, dissolved (µg/L as Cu)	1	9.00	9.00	--	--		--	--	--
Iron, dissolved (µg/L as Fe)	4	4200.00	320.00	--	--		--	--	--
Manganese, dissolved (µg/L as Mn)	3	90.00	20.00	--	--		--	--	--
Molybdenum, dissolved (µg/L as Mo)	1	7.00	7.00	--	--		--	--	--
Nickel, dissolved (µg/L as Ni)	1	9.00	9.00	--	--		--	--	--
Strontium, dissolved (µg/L as Sr)	1	120.00	120.00	--	--		--	--	--

Site number, 462139101514301

Summary of water-quality data, November 14, 1972, through June 14, 1978--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	1	1.50	1.50	--	--	--	--	--
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	1	20.00	20.00	--	--	--	--	--
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	1	10.00	10.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	1	60.00	60.00	--	--	--	--	--
Selenium, dissolved ( $\mu\text{g/L}$ as Se)	1	5.00	5.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	5	1310.00	1220.00	1260.00	33.91	1270.00	1260.00	1240.00
Solids, sum of constituents, dissolved (mg/L)	5	1307.75	1210.14	1240.34	41.26	1252.11	1218.81	1212.91
Solids, dissolved (tons per acre-foot)	5	1.78	1.66	1.71	0.05	1.73	1.71	1.69
Nitrogen, nitrate, total (mg/L as NO <sub>3</sub> )	1	1.00	1.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	3	1.00	1.00	--	--	--	--	--
Residual, sodium, carbonate (mg/L as CaCO <sub>3</sub> )	1	19.00	19.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	2120.00	2120.00	--	--	--	--	--
Depth of well, total (feet)	2	612.00	612.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462216102090801; local identifier, 134-091-32CCC; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2378.00 feet.

Summary of water-quality data, December 4, 1967, through August 16, 1993

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	4	11.00	8.00	--	--	--	--	--
Agency collecting sample (code number)	2	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	2	38002.00	38002.00	--	--	--	--	--
Color (platinum cobalt scale)	1	200.00	200.00	--	--	--	--	--
Specific conductance, field (µS/cm at 25 degrees Celsius)	1	1940.00	1940.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	5	1950.00	1800.00	1890.00	69.64	1940.00	1930.00	1830.00
pH, water, whole, field (standard units)	4	8.50	8.44	--	--	--	--	--
pH, water, whole, laboratory (standard units)	2	8.56	8.50	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	2	6.60	6.50	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	2	1070.00	1050.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	3	1260.00	1210.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	3	34.00	22.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	3	0.41	0.23	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	5	16.92	10.85	13.27	2.59	15.02	12.12	11.45
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	3	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	5	5.00	2.20	3.64	1.06	4.20	3.70	3.10
Magnesium, dissolved (mg/L as Mg)	5	1.30	0.70	1.00	0.22	1.10	1.00	0.90
Sodium, dissolved (mg/L as Na)	5	514.00	490.00	504.80	9.76	510.00	510.00	500.00
Sodium adsorption ratio	5	67.39	52.33	61.11	6.12	65.60	62.50	57.72
Sodium (percent)	5	98.78	98.20	98.54	0.23	98.70	98.63	98.42
Potassium, dissolved (mg/L as K)	5	3.60	1.70	2.34	0.76	2.30	2.30	1.80
Chloride, dissolved (mg/L as Cl)	5	42.00	40.00	40.40	0.89	40.00	40.00	40.00
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	5	13.00	1.00	7.88	4.32	8.60	8.60	8.20
Fluoride, dissolved (mg/L as F)	5	3.20	2.70	2.96	0.19	3.10	2.90	2.90
Silica, dissolved (mg/L as SiO <sub>2</sub> )	5	11.00	9.90	10.78	0.49	11.00	11.00	11.00
Boron, dissolved (µg/L as B)	5	2100.00	1400.00	1800.00	254.95	1900.00	1800.00	1800.00
Iron, dissolved (µg/L as Fe)	5	400.00	0.00	104.00	166.82	60.00	30.00	30.00
Lead, dissolved (µg/L as Pb)	1	1.00	1.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	4	20.00	0.00	--	--	--	--	--
Molybdenum, dissolved (µg/L as Mo)	1	16.00	16.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	1	270.00	270.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	1	50.00	50.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	5	1240.00	1190.00	1214.00	20.74	1230.00	1210.00	1200.00

Site number, 462216102090801

Summary of water-quality data, December 4, 1967, through August 16, 1993--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Solids, sum of constituents, dissolved (mg/L)	5	1224.66	1206.07	1214.15	8.96	1223.01	1209.76	1207.25
Solids, dissolved (tons per acre-foot)	5	1.69	1.62	1.65	0.03	1.67	1.65	1.63
Nitrogen, nitrate, dissolved (mg/L as NO3)	3	3.00	1.00	--	--	--	--	--
Mercury, dissolved (µg/L as Hg)	1	0.10	0.10	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	2378.00	2378.00	--	--	--	--	--
Depth to top of water-bearing zone sampled (feet)	1	455.00	455.00	--	--	--	--	--
Depth of well, total (feet)	2	480.00	478.00	--	--	--	--	--
Depth below land surface, water level (feet)	2	51.34	48.50	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	1	1890.00	1890.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO3)	2	1076.00	1070.00	--	--	--	--	--
Bicarbonate, titration to pH 4.5, laboratory (mg/L as HCO3)	1	1250.00	1250.00	--	--	--	--	--
Carbonate, titration to pH 8.3, laboratory (mg/L as CO3)	1	26.00	26.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462218102130301; local identifier, 134-092-34DDC; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2434.00 feet.

Summary of water-quality data, May 9, 1969, through June 16, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	2	10.00	8.50	--	--	--	--	--
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	1	38002.00	38002.00	--	--	--	--	--
Color (platinum cobalt scale)	1	75.00	75.00	--	--	--	--	--
Specific conductance, field ( $\mu$ S/cm at 25 degrees Celsius)	1	1640.00	1640.00	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	2	1580.00	1520.00	--	--	--	--	--
pH, water, whole, field (standard units)	1	7.70	7.70	--	--	--	--	--
pH, water, whole, laboratory (standard units)	1	7.70	7.70	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	580.00	580.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	1	0.23	0.23	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	2	641.81	534.68	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	1	58.00	58.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	130.00	97.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	77.00	71.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	169.00	160.00	--	--	--	--	--
Sodium adsorption ratio	2	3.18	2.75	--	--	--	--	--
Sodium (percent)	2	40.19	34.60	--	--	--	--	--
Potassium, dissolved (mg/L as K)	2	13.00	10.00	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	4.80	0.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	2	430.00	408.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	0.40	0.30	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	2	16.00	15.00	--	--	--	--	--
Boron, dissolved ( $\mu$ g/L as B)	2	700.00	420.00	--	--	--	--	--
Iron, dissolved ( $\mu$ g/L as Fe)	2	3200.00	720.00	--	--	--	--	--
Manganese, dissolved ( $\mu$ g/L as Mn)	1	370.00	370.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	1170.00	1060.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	1179.38	1057.91	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	1.59	1.44	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	1	3.00	3.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	2434.00	2434.00	--	--	--	--	--
Depth to top of water-bearing zone sampled (feet)	1	154.00	154.00	--	--	--	--	--
Depth of well, total (feet)	1	174.00	174.00	--	--	--	--	--

Site number, 462218102130301

Summary of water-quality data, May 9, 1969, through June 16, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Depth below land surface, water level (feet)	1	91.24	91.24	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	1	570.00	570.00	--	--	--	--	--
Bicarbonate, titration to pH 4.5, laboratory (mg/L as HCO <sub>3</sub> )	1	700.00	700.00	--	--	--	--	--
Carbonate, titration to pH 8.3, laboratory (mg/L as CO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462222100562701; local identifier, 134-082-36DCD; county code, 085.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 1711.00 feet.

Summary of water-quality data, September 1, 1971, through June 28, 1978

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sampling depth (feet)	1	157.00	157.00	--	--	--	--	--
Water temperature (degrees Celsius)	4	9.00	1.20	--	--	--	--	--
Agency analyzing sample (code number)	1	38002.00	38002.00	--	--	--	--	--
Color (platinum cobalt scale)	1	30.00	30.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	4	2950.00	2620.00	--	--	--	--	--
pH, water, whole, field (standard units)	2	8.50	8.20	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	12.00	12.00	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	3	947.00	886.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	4	1155.00	1050.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	4	31.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	2	0.75	0.23	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.02	0.02	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.05	0.05	--	--	--	--	--
Cyanide, total (mg/L as Cn)	1	0.00	0.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	4	38.38	18.33	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	4	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	4	9.10	4.70	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	4	3.80	1.60	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	4	660.00	640.00	--	--	--	--	--
Sodium adsorption ratio	4	65.92	45.52	--	--	--	--	--
Sodium (percent)	4	98.49	97.06	--	--	--	--	--
Potassium, dissolved (mg/L as K)	4	3.40	2.40	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	4	56.00	49.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	4	480.00	470.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	4	2.30	2.10	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	4	16.00	11.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	4	3100.00	2700.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	1	4.00	4.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	3	2500.00	280.00	--	--	--	--	--
Lead, dissolved (µg/L as Pb)	1	3.00	3.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	4	160.00	50.00	--	--	--	--	--
Molybdenum, dissolved (µg/L as Mo)	1	5.00	5.00	--	--	--	--	--
Nickel, dissolved (µg/L as Ni)	1	2.00	2.00	--	--	--	--	--

Site number, 462222100562701

Summary of water-quality data, September 1, 1971, through June 28, 1978--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	1	100.00	100.00	--	--	--	--	--
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	1	0.00	0.00	--	--	--	--	--
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	1	20.00	20.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	1	120.00	120.00	--	--	--	--	--
Selenium, dissolved ( $\mu\text{g/L}$ as Se)	1	4.00	4.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	4	1870.00	1810.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	4	1785.76	1721.10	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	4	2.54	2.46	--	--	--	--	--
Nitrogen, nitrate, total (mg/L as $\text{NO}_3$ )	1	3.30	3.30	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as $\text{NO}_3$ )	1	1.00	1.00	--	--	--	--	--
Residual, sodium, carbonate (mg/L as $\text{CaCO}_3$ )	1	17.00	17.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	1	1711.00	1711.00	--	--	--	--	--
Depth of well, total (feet)	1	157.00	157.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462231101565801; local identifier, 134-090-35DBD; county code, 037.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, May 22, 1952, through September 26, 1972

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	1	2000.00	2000.00	--	--	--	--	--
pH, water, whole, field (standard units)	3	9.20	7.90	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as $\text{CaCO}_3$ )	2	1270.00	1270.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{HCO}_3$ )	3	1200.00	1170.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{CO}_3$ )	3	200.00	0.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	3	4.65	0.43	--	--	--	--	--
Hardness, total (mg/L as $\text{CaCO}_3$ )	3	15.98	8.30	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as $\text{CaCO}_3$ )	1	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	3	6.40	2.50	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	3	0.50	0.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	3	628.00	526.00	--	--	--	--	--
Sodium adsorption ratio	3	79.45	67.60	--	--	--	--	--
Sodium (percent)	1	99.13	99.13	--	--	--	--	--
Potassium, dissolved (mg/L as K)	1	1.40	1.40	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	3	103.00	66.00	--	--	--	--	--
Sulfate, dissolved (mg/L as $\text{SO}_4$ )	3	7.40	0.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	3	4.00	0.50	--	--	--	--	--
Silica, dissolved (mg/L as $\text{SiO}_2$ )	1	10.00	10.00	--	--	--	--	--
Boron, dissolved ( $\mu\text{g}/\text{L}$ as B)	1	2300.00	2300.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g}/\text{L}$ as Fe)	3	820.00	100.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g}/\text{L}$ as Mn)	1	10.00	10.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	2080.00	1210.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	1	1244.95	1244.95	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	1	1.65	1.65	--	--	--	--	--
Nitrogen, nitrate, total (mg/L as $\text{NO}_3$ )	3	20.60	1.90	--	--	--	--	--
Residual, sodium, carbonate (mg/L as $\text{CaCO}_3$ )	1	19.00	19.00	--	--	--	--	--
Depth of well, total (feet)	3	431.00	431.00	--	--	--	--	--
Depth to bottom of sample interval (feet below LSD)	2	431.00	431.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462429102191001; local identifier, 134-093-23ADD; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2510.00 feet.

Summary of water-quality data, June 11, 1969, through August, 16, 1993

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown	
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50 25
Water temperature (degrees Celsius)	1	9.50	9.50	--	--	--	--
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--
Agency analyzing sample (code number)	1	38002.00	38002.00	--	--	--	--
Color (platinum cobalt scale)	1	3000.00	3000.00	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	2	1550.00	1550.00	--	--	--	--
pH, water, whole, field (standard units)	1	8.30	8.30	--	--	--	--
pH, water, whole, laboratory (standard units)	1	8.75	8.75	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO3)	1	854.00	854.00	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO3)	1	10.00	10.00	--	--	--	--
Hardness, total (mg/L as CaCO3)	2	73.65	23.53	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO3)	1	0.00	0.00	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	13.00	6.00	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	10.00	2.00	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	380.00	380.00	--	--	--	--
Sodium adsorption ratio	2	34.32	19.27	--	--	--	--
Sodium (percent)	2	96.90	91.55	--	--	--	--
Potassium, dissolved (mg/L as K)	2	2.50	2.10	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	14.00	12.00	--	--	--	--
Sulfate, dissolved (mg/L as SO4)	2	260.00	133.00	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	6.80	3.50	--	--	--	--
Silica, dissolved (mg/L as SiO2)	2	29.00	11.00	--	--	--	--
Arsenic, dissolved (µg/L as As)	1	2.00	2.00	--	--	--	--
Boron, dissolved (µg/L as B)	2	1000.00	300.00	--	--	--	--
Iron, dissolved (µg/L as Fe)	2	660.00	110.00	--	--	--	--
Lead, dissolved (µg/L as Pb)	1	8.00	8.00	--	--	--	--
Manganese, dissolved (µg/L as Mn)	1	20.00	20.00	--	--	--	--
Molybdenum, dissolved (µg/L as Mo)	1	16.00	16.00	--	--	--	--
Strontium, dissolved (µg/L as Sr)	1	270.00	270.00	--	--	--	--
Lithium, dissolved (µg/L as Li)	1	30.00	30.00	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	1190.00	1040.00	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	1152.90	998.22	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	1.62	1.41	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO3)	1	1.50	1.50	--	--	--	--

Site number, 462429102191001

Summary of water-quality data, June 11, 1969, through August, 16, 1993--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Elevation of land surface datum, LSD (feet NGVD)	1	2510.00	2510.00	--	--	--	--	--
Depth to top of water-bearing zone sampled (feet)	1	228.00	228.00	--	--	--	--	--
Depth of well, total (feet)	1	263.00	263.00	--	--	--	--	--
Depth below land surface, water level (feet)	1	127.92	127.92	--	--	--	--	--
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	1	1520.00	1520.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	1	757.00	757.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462544102305901; local identifier, 134-094-08DCC; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2465.00 feet.

Summary of water-quality data, September 27, 1968, through May 16, 1969

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	2	50.00	9.00	--	--	--	--	--
Color (platinum cobalt scale)	2	9000.00	2000.00	--	--	--	--	--
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	2	1470.00	1380.00	--	--	--	--	--
pH, water, whole, field (standard units)	2	8.40	8.20	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{HCO}_3$ )	2	967.00	856.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{CO}_3$ )	2	12.00	0.00	--	--	--	--	--
Hardness, total (mg/L as $\text{CaCO}_3$ )	2	48.13	36.83	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as $\text{CaCO}_3$ )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	9.80	7.40	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	7.20	3.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	357.00	348.00	--	--	--	--	--
Sodium adsorption ratio	2	24.96	22.40	--	--	--	--	--
Sodium (percent)	2	94.47	93.76	--	--	--	--	--
Potassium, dissolved (mg/L as K)	2	5.90	2.80	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	9.20	7.10	--	--	--	--	--
Sulfate, dissolved (mg/L as $\text{SO}_4$ )	2	67.00	18.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	5.30	2.00	--	--	--	--	--
Silica, dissolved (mg/L as $\text{SiO}_2$ )	2	7.40	6.70	--	--	--	--	--
Boron, dissolved ( $\mu\text{g}/\text{L}$ as B)	2	390.00	300.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g}/\text{L}$ as Fe)	2	2300.00	150.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	1030.00	997.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	899.42	875.89	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	2	1.40	1.36	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as $\text{NO}_3$ )	2	0.00	0.00	--	--	--	--	--
Elevation of land surface datum, LSD (feet NGVD)	2	2465.00	2465.00	--	--	--	--	--
Depth to top of water-bearing zone sampled (feet)	2	150.00	150.00	--	--	--	--	--
Depth of well, total (feet)	2	223.00	223.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462632102462301; local identifier, 134-096-08BAB; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2575.00 feet.

Summary of water-quality data, September 13, 1979, through June 25, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	7	14.00	8.80	10.04	1.81	10.00	9.50	9.00
Temperature, air (degrees Celsius)	1	27.00	27.00	--	--	--	--	--
Agency analyzing sample (code number)	5	80020.00	80020.00	80020.00	0.00	80020.00	80020.00	80020.00
Turbidity (NTU)	2	180.00	140.00	--	--	--	--	--
Color (platinum cobalt scale)	1	230.00	230.00	--	--	--	--	--
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	7	1750.00	1550.00	1654.29	77.21	1700.00	1680.00	1550.00
pH, water, whole, field (standard units)	7	8.70	8.40	8.59	0.11	8.70	8.60	8.50
pH, water, whole, laboratory (standard units)	2	8.40	8.20	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as $\text{CO}_2$ )	1	3.30	3.30	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as $\text{CaCO}_3$ )	5	530.00	530.00	530.00	0.00	530.00	530.00	530.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{HCO}_3$ )	1	646.00	646.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{CO}_3$ )	1	0.00	0.00	--	--	--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	0.48	0.48	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.24	0.24	--	--	--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	6	2.80	0.72	1.18	0.80	1.00	0.86	0.82
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.08	0.08	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.35	0.35	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	15.00	15.00	--	--	--	--	--
Hardness, total (mg/L as $\text{CaCO}_3$ )	7	21.14	11.99	16.28	3.67	19.93	15.24	12.65
Noncarbonate hardness, water, whole, total, field (mg/L as $\text{CaCO}_3$ )	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as $\text{CaCO}_3$ )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	7	5.40	3.10	3.96	0.96	5.10	3.40	3.20
Magnesium, dissolved (mg/L as Mg)	7	2.00	1.00	1.51	0.37	1.80	1.60	1.10
Sodium, dissolved (mg/L as Na)	7	400.00	320.00	364.29	33.59	400.00	370.00	320.00
Sodium adsorption ratio	7	43.03	38.08	39.81	1.69	40.44	39.36	38.22
Sodium (percent)	7	97.97	97.36	97.70	0.27	97.97	97.81	97.40
Sodium plus potassium, dissolved (mg/L as Na)	4	370.00	320.00	--	--	--	--	--
Potassium, dissolved (mg/L as K)	7	2.60	1.90	2.09	0.24	2.10	2.00	1.90
Chloride, dissolved (mg/L as Cl)	7	5.70	4.00	4.69	0.56	4.80	4.70	4.10
Sulfate, dissolved (mg/L as $\text{SO}_4$ )	7	380.00	310.00	358.57	26.73	380.00	370.00	340.00
Fluoride, dissolved (mg/L as F)	7	2.40	1.00	1.36	0.47	1.30	1.20	1.10
Silica, dissolved (mg/L as $\text{SiO}_2$ )	7	7.60	6.10	7.01	0.58	7.40	7.30	6.30
Beryllium, dissolved ( $\mu\text{g}/\text{L}$ as Be)	1	10.00	10.00	--	--	--	--	--

## Summary of water-quality data, September 13, 1979, through June 25, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Boron, dissolved ( $\mu\text{g/L}$ as B)	7	760.00	580.00	684.29	78.71	760.00	720.00	580.00
Cadmium, dissolved ( $\mu\text{g/L}$ as Cd)	1	3.00	3.00	--	--	--	--	--
Cobalt, dissolved ( $\mu\text{g/L}$ as Co)	1	5.00	5.00	--	--	--	--	--
Copper, dissolved ( $\mu\text{g/L}$ as Cu)	1	9.00	9.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	7	150.00	60.00	92.86	37.29	140.00	80.00	60.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	1	18.00	18.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	6	10.00	7.00	8.67	1.21	10.00	8.50	8.00
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	3	1.00	0.00	--	--	--	--	--
Nickel, dissolved ( $\mu\text{g/L}$ as Ni)	1	5.00	5.00	--	--	--	--	--
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	7	210.00	110.00	140.00	37.86	170.00	130.00	110.00
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	1	70.00	70.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	1	20.00	20.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	2	1110.00	1080.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	7	1111.61	996.58	1060.56	48.07	1108.82	1078.84	1006.04
Solids, dissolved (tons per acre-foot)	7	1.51	1.36	1.44	0.06	1.48	1.47	1.37
Nitrogen, ammonia, dissolved (mg/L as $\text{NH}_4$ )	1	0.31	0.31	--	--	--	--	--
Mercury, dissolved ( $\mu\text{g/L}$ as Hg)	1	0.70	0.70	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	1	1.40	1.40	--	--	--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	2	1669.00	1620.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	2	530.00	510.00	--	--	--	--	--



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462702101140001; local identifier, 134-084-03CBA; county code, 059.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--211HLCK.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, September 19, 1975

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	3	10.00	10.00	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	3	2100.00	2090.00	--	--	--	--	--
pH, water, whole, field (standard units)	3	8.40	8.40	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	3	4.00	4.00	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	3	510.00	492.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	3	600.00	600.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	3	11.00	11.00	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as N)	3	0.05	0.01	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	3	20.19	19.20	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	3	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	3	3.40	3.30	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	3	2.90	2.60	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	3	500.00	470.00	--	--	--	--	--
Sodium adsorption ratio	3	49.66	45.53	--	--	--	--	--
Sodium (percent)	3	98.14	97.93	--	--	--	--	--
Potassium, dissolved (mg/L as K)	3	1.10	1.10	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	3	5.40	4.80	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	3	550.00	540.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	3	2.10	2.10	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	3	9.00	8.70	--	--	--	--	--
Boron, dissolved ( $\mu$ g/L as B)	3	2200.00	2200.00	--	--	--	--	--
Iron, total ( $\mu$ g/L as Fe)	1	370.00	370.00	--	--	--	--	--
Iron, dissolved ( $\mu$ g/L as Fe)	2	380.00	370.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	1390.00	1380.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	3	1381.39	1342.06	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	3	1.89	1.88	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	3	0.20	0.05	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462729102520101; local identifier, 135-097-33DDC; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2685.00 feet.

# Summary of water-quality data, September 22, 1976, through June 26, 1981

Water-quality constituent	Sample size	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation		75	Median 50	25
Water temperature (degrees Celsius)	7	12.00	9.00	10.21	1.08		11.00	10.00	9.00
Temperature, air (degrees Celsius)	2	24.00	24.00	--	--		--	--	--
Agency analyzing sample (code number)	6	80020.00	80020.00	80020.00	0.00		80020.00	80020.00	80020.00
Turbidity (ICU)	1	3.00	3.00	--	--		--	--	--
Turbidity (NTU)	2	1.00	0.80	--	--		--	--	--
Color (platinum cobalt scale)	1	18.00	18.00	--	--		--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	7	5000.00	3600.00	4450.00	595.12		5000.00	4800.00	3750.00
pH, water, whole, field (standard units)	7	8.30	8.20	8.27	0.05		8.30	8.30	8.20
pH, water, whole, laboratory (standard units)	2	8.20	8.10	--	--		--	--	--
Carbon dioxide, dissolved (mg/L as CO2)	1	5.60	5.60	--	--		--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO3)	5	577.00	540.00	555.40	15.68		560.00	560.00	540.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO3)	1	703.00	703.00	--	--		--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO3)	1	0.00	0.00	--	--		--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	0.00	0.00	--	--		--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.55	0.55	--	--		--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	7	1.30	0.18	0.85	0.56		1.30	1.30	0.27
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.15	0.15	--	--		--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.10	0.10	--	--		--	--	--
Carbon, organic, dissolved (mg/L as C)	1	23.00	23.00	--	--		--	--	--
Hardness, total (mg/L as CaCO3)	7	177.90	135.21	161.63	16.43		177.90	161.95	145.32
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO3)	5	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO3)	2	0.00	0.00	--	--		--	--	--
Calcium, dissolved (mg/L as Ca)	7	41.00	29.00	36.43	4.54		41.00	38.00	33.00
Magnesium, dissolved (mg/L as Mg)	7	18.00	15.00	16.86	1.46		18.00	18.00	15.00
Sodium, dissolved (mg/L as Na)	7	960.00	900.00	941.43	28.54		960.00	960.00	900.00
Sodium adsorption ratio	7	34.43	30.89	32.44	1.35		33.81	31.90	31.45
Sodium (percent)	7	93.20	91.90	92.41	0.57		93.14	92.07	91.90
Sodium plus potassium, dissolved (mg/L as Na)	4	970.00	910.00	--	--		--	--	--
Potassium, dissolved (mg/L as K)	7	6.90	5.90	6.43	0.38		6.80	6.40	6.00
Chloride, dissolved (mg/L as Cl)	7	11.00	3.80	6.70	3.09		11.00	5.40	3.80
Sulfate, dissolved (mg/L as SO4)	7	1800.00	1400.00	1685.71	134.52		1800.00	1700.00	1700.00
Fluoride, dissolved (mg/L as F)	7	1.10	0.90	0.99	0.07		1.00	1.00	0.90
Silica, dissolved (mg/L as SiO2)	7	9.30	8.70	9.04	0.24		9.20	9.20	8.80

## Summary of water-quality data, September 22, 1976, through June 26, 1981--Continued

Water-quality constituent	Descriptive statistics						Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation		75	Median	25
Arsenic, dissolved ( $\mu\text{g/L}$ as As)	1	3.00	3.00	--	--		--	--	--
Boron, dissolved ( $\mu\text{g/L}$ as B)	7	570.00	500.00	544.29	28.20		570.00	550.00	510.00
Copper, dissolved ( $\mu\text{g/L}$ as Cu)	1	6.00	6.00	--	--		--	--	--
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	6	120.00	60.00	86.67	21.60		100.00	85.00	70.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	1	3.00	3.00	--	--		--	--	--
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	7	70.00	50.00	64.29	7.87		70.00	70.00	60.00
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	4	0.00	0.00	--	--		--	--	--
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	7	1200.00	880.00	1065.71	118.72		1200.00	1100.00	980.00
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	1	1.10	1.10	--	--		--	--	--
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	1	70.00	70.00	--	--		--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	1	70.00	70.00	--	--		--	--	--
Solids, sum of constituents, dissolved (mg/L)	3	3170.00	2840.00	--	--		--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	7	3157.58	2715.87	3030.75	144.33		3113.49	3059.77	3047.69
Solids, dissolved (tons per acre-foot)	7	4.31	3.86	4.19	0.16		4.31	4.23	4.16
Nitrogen, ammonia, dissolved (mg/L as $\text{NH}_4$ )	1	0.71	0.71	--	--		--	--	--
Potassium 40, dissolved (pCi/L as K40)	2	4.50	4.40	--	--		--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	2	4350.00	4350.00	--	--		--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	2	520.00	500.00	--	--		--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462906102465201; local identifier, 135-096-30AAA; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2550.00 feet.

Summary of water-quality data, September 28, 1976, through June 25, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown	
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50 25
Water temperature (degrees Celsius)	7	15.00	8.00	10.21	2.71	13.00	9.00 8.00
Temperature, air (degrees Celsius)	2	29.00	29.00	--	--	--	-- --
Agency analyzing sample (code number)	6	80020.00	80020.00	80020.00	0.00	80020.00	80020.00 80020.00
Turbidity (JCU)	1	35.00	35.00	--	--	--	-- --
Turbidity (NTU)	2	2.90	2.10	--	--	--	-- --
Color (platinum cobalt scale)	1	2.00	2.00	--	--	--	-- --
Specific conductance (µS/cm at 25 degrees Celsius)	7	1700.00	875.00	1425.00	295.10	1675.00	1500.00 1250.00
pH, water, whole, field (standard units)	7	8.30	7.00	7.89	0.46	8.20	8.10 7.60
pH, water, whole, laboratory (standard units)	2	8.20	7.80	--	--	--	-- --
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	13.00	13.00	--	--	--	-- --
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	520.00	268.00	431.60	95.57	460.00	460.00 450.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	327.00	327.00	--	--	--	-- --
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	0.00	0.00	--	--	--	-- --
Nitrogen, organic, dissolved (mg/L as N)	1	0.70	0.70	--	--	--	-- --
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	7	1.20	0.66	0.87	0.21	1.10	0.83 0.70
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.06	0.06	--	--	--	-- --
Carbon, organic, dissolved (mg/L as C)	1	3.30	3.30	--	--	--	-- --
Hardness, total (mg/L as CaCO <sub>3</sub> )	7	274.66	3.09	191.88	88.18	234.11	216.56 184.96
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	5	6.00	0.00	1.20	2.68	0.00	0.00 0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	-- --
Calcium, dissolved (mg/L as Ca)	7	65.00	0.90	45.56	20.88	57.00	50.00 44.00
Magnesium, dissolved (mg/L as Mg)	7	27.00	0.20	18.74	8.68	23.00	22.00 18.00
Sodium, dissolved (mg/L as Na)	7	410.00	93.00	286.14	100.17	340.00	300.00 250.00
Sodium adsorption ratio	7	101.82	2.45	21.32	35.60	10.91	8.89 7.70
Sodium (percent)	7	99.03	42.01	73.63	16.80	79.64	74.80 71.13
Sodium plus potassium, dissolved (mg/L as Na)	4	410.00	250.00	--	--	--	-- --
Potassium, dissolved (mg/L as K)	7	4.70	3.60	4.14	0.40	4.40	4.10 3.70
Chloride, dissolved (mg/L as Cl)	7	9.20	5.60	7.47	1.44	9.00	7.90 6.00
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	7	420.00	200.00	370.00	78.10	420.00	400.00 360.00
Fluoride, dissolved (mg/L as F)	7	1.10	0.40	0.79	0.22	0.90	0.80 0.70
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	13.00	10.00	11.43	0.98	12.00	11.00 11.00
Arsenic, dissolved (µg/L as As)	1	1.00	1.00	--	--	--	-- --
Boron, dissolved (µg/L as B)	7	420.00	110.00	298.57	98.22	370.00	320.00 260.00

Summary of water-quality data, September 28, 1976, through June 25, 1981--Continued

Water-quality constituent	Descriptive statistics						Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation		75	Median 50	25
Copper, dissolved (µg/L as Cu)	1	2.00	2.00	--	--		--	--	--
Iron, dissolved (µg/L as Fe)	6	70.00	20.00	35.00	18.71		40.00	30.00	20.00
Lead, dissolved (µg/L as Pb)	1	4.00	4.00	--	--		--	--	--
Manganese, dissolved (µg/L as Mn)	6	250.00	110.00	150.00	50.20		140.00	135.00	130.00
Nickel, dissolved (µg/L as Ni)	1	7.00	7.00	--	--		--	--	--
Strontium, dissolved (µg/L as Sr)	7	1000.00	20.00	792.86	346.64		980.00	930.00	820.00
Vanadium, dissolved (µg/L as V)	1	0.40	0.40	--	--		--	--	--
Aluminum, dissolved (µg/L as Al)	1	10.00	10.00	--	--		--	--	--
Lithium, dissolved (µg/L as Li)	1	30.00	30.00	--	--		--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	1110.00	558.00	--	--	&	--	--	--
Solids, sum of constituents, dissolved (mg/L)	7	1188.56	574.75	1013.52	205.42		1146.97	1075.69	995.21
Solids, dissolved (tons per acre-foot)	7	1.56	0.76	1.36	0.28		1.51	1.47	1.35
Nitrogen, ammonia, dissolved (mg/L as NH4)	1	0.00	0.00	--	--		--	--	--
Mercury, dissolved (µg/L as Hg)	1	0.80	0.80	--	--		--	--	--
Potassium 40, dissolved (pCi/L as K40)	2	2.80	2.70	--	--		--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	2	1580.00	1550.00	--	--		--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO3)	2	540.00	430.00	--	--		--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463050102492201; local identifier, 135-097-14AAA; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, September 28, 1976, through June 25, 1981

Water-quality constituent	Sample size	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation		75	Median 50	25
Water temperature (degrees Celsius)	7	13.00	9.00	10.71	1.47		12.50	10.00	10.00
Temperature, air (degrees Celsius)	2	30.00	30.00	--	--		--	--	--
Agency analyzing sample (code number)	6	80020.00	80020.00	80020.00	0.00		80020.00	80020.00	80020.00
Turbidity (JCU)	1	8.00	8.00	--	--		--	--	--
Turbidity (NTU)	2	2.10	1.10	--	--		--	--	--
Color (platinum cobalt scale)	1	25.00	25.00	--	--		--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	7	1475.00	1175.00	1400.71	105.89		1475.00	1450.00	1380.00
pH, water, whole, field (standard units)	7	8.40	8.00	8.17	0.14		8.30	8.10	8.10
pH, water, whole, laboratory (standard units)	2	8.20	8.00	--	--		--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	2.80	2.80	--	--		--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	430.00	359.00	393.80	29.11		410.00	400.00	370.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	438.00	438.00	--	--		--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	0.00	0.00	--	--		--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	0.25	0.25	--	--		--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.16	0.16	--	--		--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	7	0.95	0.41	0.72	0.18		0.90	0.70	0.66
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.03	0.03	--	--		--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.11	0.11	--	--		--	--	--
Carbon, organic, dissolved (mg/L as C)	1	11.00	11.00	--	--		--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	7	29.27	18.76	25.60	3.72		28.33	26.44	22.63
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	5	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--		--	--	--
Calcium, dissolved (mg/L as Ca)	7	7.00	4.30	6.06	0.92		6.80	6.20	5.50
Magnesium, dissolved (mg/L as Mg)	7	2.80	1.90	2.49	0.35		2.80	2.60	2.10
Sodium, dissolved (mg/L as Na)	7	340.00	260.00	314.29	27.60		330.00	330.00	300.00
Sodium adsorption ratio	7	29.28	25.45	27.23	1.26		28.06	27.26	26.26
Sodium (percent)	7	96.34	95.53	95.99	0.29		96.22	96.02	95.72
Sodium plus potassium, dissolved (mg/L as Na)	4	340.00	280.00	--	--		--	--	--
Potassium, dissolved (mg/L as K)	7	2.80	2.30	2.60	0.20		2.80	2.70	2.40
Chloride, dissolved (mg/L as Cl)	7	7.00	4.20	6.06	0.96		6.90	6.10	5.70
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	7	360.00	220.00	322.86	46.80		350.00	330.00	330.00
Fluoride, dissolved (mg/L as F)	7	1.30	0.70	0.91	0.24		1.20	0.80	0.70
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	11.00	8.00	9.77	1.07		11.00	9.80	9.00

## Summary of water-quality data, September 28, 1976, through June 25, 1981--Continued

Water-quality constituent	Descriptive statistics						Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation		75	Median 50	25
Arsenic, dissolved ( $\mu\text{g/L}$ as As)	1	1.00	1.00	--	--	--	--	--	--
Boron, dissolved ( $\mu\text{g/L}$ as B)	7	950.00	690.00	868.57	85.52	--	930.00	890.00	860.00
Copper, dissolved ( $\mu\text{g/L}$ as Cu)	1	2.00	2.00	--	--	--	--	--	--
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	7	40.00	20.00	28.57	6.90	--	30.00	30.00	20.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	1	12.00	12.00	--	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	4	10.00	10.00	--	--	--	--	--	--
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	1	1.00	1.00	--	--	--	--	--	--
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	7	220.00	170.00	208.57	18.65	--	220.00	220.00	200.00
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	1	2.00	2.00	--	--	--	--	--	--
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	1	20.00	20.00	--	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	1	30.00	30.00	--	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	944.00	708.00	--	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	7	958.01	718.66	899.97	82.12	--	945.65	919.46	908.87
Solids, dissolved (tons per acre-foot)	7	1.30	0.96	1.23	0.12	--	1.29	1.28	1.24
Nitrogen, ammonia, dissolved (mg/L as $\text{NH}_4$ )	1	0.21	0.21	--	--	--	--	--	--
Mercury, dissolved ( $\mu\text{g/L}$ as Hg)	1	0.60	0.60	--	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	2	1.90	1.80	--	--	--	--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	2	1460.00	1460.00	--	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	2	380.00	380.00	--	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463057101141609; local identifier, 135-084-16AAA9; county code, 059.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--112EMCK.

DATUM.--Altitude of land surface datum is 1888.00 feet.

Summary of water-quality data, August 13, 1974, through August 17, 1974

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	5	1020.00	995.00	1011.00	12.45	1020.00	1020.00	1000.00
pH, water, whole, field (standard units)	5	7.90	7.80	7.84	0.05	7.90	7.80	7.80
Carbon dioxide, dissolved ( $\text{mg}/\text{L}$ as $\text{CO}_2$ )	5	15.00	12.00	13.80	1.64	15.00	15.00	12.00
Alkalinity, water, whole, total, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	5	500.00	492.00	496.80	4.38	500.00	500.00	492.00
Bicarbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{HCO}_3$ )	5	610.00	600.00	606.00	5.48	610.00	610.00	600.00
Carbonate, water, whole, fixed endpoint titration, field ( $\text{mg}/\text{L}$ as $\text{CO}_3$ )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nitrogen, nitrate, dissolved ( $\text{mg}/\text{L}$ as N)	5	0.23	0.23	0.23	0.00	0.23	0.23	0.23
Hardness, total ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	5	390.31	390.05	390.20	0.14	390.31	390.31	390.05
Noncarbonate hardness, water, whole, total, field ( $\text{mg}/\text{L}$ as $\text{CaCO}_3$ )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Calcium, dissolved ( $\text{mg}/\text{L}$ as Ca)	5	120.00	110.00	116.00	5.48	120.00	120.00	110.00
Magnesium, dissolved ( $\text{mg}/\text{L}$ as Mg)	5	28.00	22.00	24.40	3.29	28.00	22.00	22.00
Sodium, dissolved ( $\text{mg}/\text{L}$ as Na)	5	93.00	82.00	88.20	4.87	93.00	88.00	85.00
Sodium adsorption ratio	5	2.05	1.81	1.94	0.11	2.05	1.94	1.87
Sodium (percent)	5	33.94	31.15	32.73	1.22	33.92	32.69	31.95
Potassium, dissolved ( $\text{mg}/\text{L}$ as K)	5	3.30	3.20	3.22	0.05	3.20	3.20	3.20
Chloride, dissolved ( $\text{mg}/\text{L}$ as Cl)	5	1.90	1.60	1.80	0.14	1.90	1.90	1.70
Sulfate, dissolved ( $\text{mg}/\text{L}$ as $\text{SO}_4$ )	5	90.00	85.00	87.60	2.07	89.00	88.00	86.00
Fluoride, dissolved ( $\text{mg}/\text{L}$ as F)	5	0.70	0.60	0.66	0.05	0.70	0.70	0.60
Silica, dissolved ( $\text{mg}/\text{L}$ as $\text{SiO}_2$ )	5	22.00	22.00	22.00	0.00	22.00	22.00	22.00
Boron, dissolved ( $\mu\text{g}/\text{L}$ as B)	5	240.00	200.00	232.00	17.89	240.00	240.00	240.00
Iron, dissolved ( $\mu\text{g}/\text{L}$ as Fe)	5	4300.00	3800.00	4100.00	200.00	4200.00	4200.00	4000.00
Manganese, dissolved ( $\mu\text{g}/\text{L}$ as Mn)	5	300.00	240.00	280.00	24.50	300.00	280.00	280.00
Solids, residue on evaporation at 180 degrees Celsius, dissolved ( $\text{mg}/\text{L}$ )	5	656.00	626.00	639.20	13.48	650.00	637.00	627.00
Solids, sum of constituents, dissolved ( $\text{mg}/\text{L}$ )	5	658.47	637.14	647.48	9.73	653.03	651.47	637.28
Solids, dissolved (tons per acre-foot)	5	0.89	0.85	0.87	0.02	0.88	0.87	0.85
Nitrogen, nitrate, dissolved ( $\text{mg}/\text{L}$ as $\text{NO}_3$ )	5	1.00	1.00	1.00	0.00	1.00	1.00	1.00



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463143102444101; local identifier, 135-096-09ABA; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2570.00 feet.

# Summary of water-quality data, October 4, 1976, through July 24, 1980

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	4	13.50	8.00	--	--	--	--	--
Agency analyzing sample (code number)	3	80020.00	80020.00	--	--	--	--	--
Turbidity (JCU)	1	35.00	35.00	--	--	--	--	--
Color (platinum cobalt scale)	1	360.00	360.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	4	1475.00	1330.00	--	--	--	--	--
pH, water, whole, field (standard units)	4	8.70	8.30	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO2)	1	3.90	3.90	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO3)	4	633.00	520.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO3)	1	772.00	772.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO3)	1	0.00	0.00	--	--	--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	0.31	0.31	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.10	0.10	--	--	--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	4	0.91	0.41	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.24	0.24	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.16	0.16	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	12.00	12.00	--	--	--	--	--
Hardness, total (mg/L as CaCO3)	4	18.86	12.54	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO3)	4	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	4	4.20	3.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	4	2.00	1.20	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	4	340.00	270.00	--	--	--	--	--
Sodium adsorption ratio	4	34.19	33.32	--	--	--	--	--
Sodium (percent)	4	97.42	97.07	--	--	--	--	--
Sodium plus potassium, dissolved (mg/L as Na)	3	280.00	270.00	--	--	--	--	--
Potassium, dissolved (mg/L as K)	4	2.90	2.30	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	4	9.30	4.50	--	--	--	--	--
Sulfate, dissolved (mg/L as SO4)	4	140.00	110.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	4	4.40	0.90	--	--	--	--	--
Silica, dissolved (mg/L as SiO2)	4	6.80	6.00	--	--	--	--	--
Arsenic, dissolved (µg/L as As)	1	2.00	2.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	4	640.00	520.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	1	8.00	8.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	4	170.00	20.00	--	--	--	--	--

Site number, 463143102444101

Summary of water-quality data, October 4, 1976, through July 24, 1980--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Lead, dissolved (µg/L as Pb)	1	16.00	16.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	4	20.00	8.00	--	--	--	--	--
Molybdenum, dissolved (µg/L as Mo)	1	12.00	12.00	--	--	--	--	--
Nickel, dissolved (µg/L as Ni)	1	2.00	2.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	4	120.00	90.00	--	--	--	--	--
Vanadium, dissolved (µg/L as V)	1	2.70	2.70	--	--	--	--	--
Zinc, dissolved (µg/L as Zn)	1	30.00	30.00	--	--	--	--	--
Aluminum, dissolved (µg/L as Al)	1	160.00	160.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	1	30.00	30.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	1	876.00	876.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	4	881.48	720.63	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	4	1.19	0.98	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as NH4)	1	0.13	0.13	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463153102521001; local identifier, 135-097-04DCA; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 2567.00 feet.

Summary of water-quality data, August 4, 1968, through August 9, 1993

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	3	21.00	9.50	--	--	--	--	--
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	1	38002.00	38002.00	--	--	--	--	--
Color (platinum cobalt scale)	2	300.00	65.00	--	--	--	--	--
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	4	2290.00	1980.00	--	--	--	--	--
pH, water, whole, field (standard units)	3	8.50	8.40	--	--	--	--	--
pH, water, whole, laboratory (standard units)	1	8.86	8.86	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{HCO}_3$ )	3	1080.00	591.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as $\text{CO}_3$ )	3	22.00	8.00	--	--	--	--	--
Hardness, total (mg/L as $\text{CaCO}_3$ )	4	46.88	16.08	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as $\text{CaCO}_3$ )	3	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	4	13.00	3.80	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	4	3.50	1.00	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	4	566.00	451.00	--	--	--	--	--
Sodium adsorption ratio	4	61.43	28.67	--	--	--	--	--
Sodium (percent)	4	98.47	95.21	--	--	--	--	--
Potassium, dissolved (mg/L as K)	4	2.40	2.00	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	4	191.00	3.20	--	--	--	--	--
Sulfate, dissolved (mg/L as $\text{SO}_4$ )	4	534.00	46.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	4	4.50	0.80	--	--	--	--	--
Silica, dissolved (mg/L as $\text{SiO}_2$ )	4	13.00	4.40	--	--	--	--	--
Boron, dissolved ( $\mu\text{g}/\text{L}$ as B)	4	2100.00	830.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g}/\text{L}$ as Fe)	4	4000.00	90.00	--	--	--	--	--
Lead, dissolved ( $\mu\text{g}/\text{L}$ as Pb)	1	1.00	1.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g}/\text{L}$ as Mn)	1	10.00	10.00	--	--	--	--	--
Molybdenum, dissolved ( $\mu\text{g}/\text{L}$ as Mo)	1	8.00	8.00	--	--	--	--	--
Strontium, dissolved ( $\mu\text{g}/\text{L}$ as Sr)	1	420.00	420.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g}/\text{L}$ as Li)	1	60.00	60.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	4	1380.00	1310.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	4	1385.34	1316.03	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	4	1.88	1.78	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as $\text{NO}_3$ )	3	1.20	0.00	--	--	--	--	--
Mercury, dissolved ( $\mu\text{g}/\text{L}$ as Hg)	1	0.10	0.10	--	--	--	--	--

Site number, 463153102521001

Summary of water-quality data, August 4, 1968, through August 9, 1993--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Elevation of land surface datum, LSD (feet NGVD)	3	2567.00	2567.00	--	--	--	--	--
Depth to top of water-bearing zone sampled (feet)	3	1310.00	1310.00	--	--	--	--	--
Depth of well, total (feet)	3	1360.00	1360.00	--	--	--	--	--
Depth below land surface, water level (feet)	1	144.70	144.70	--	--	--	--	--
Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 degrees Celsius)	1	2110.00	2110.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	1	940.00	940.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463231103041101; local identifier, 136-099-36CCC; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2705.00 feet.

Summary of water-quality data, September 13, 1976, through August 21, 1983

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	7	12.50	9.50	11.07	1.27	12.50	11.00	10.00
Temperature, air (degrees Celsius)	2	29.00	29.00	--	--	--	--	--
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	7	80020.00	38002.00	74017.43	15881.31	80020.00	80020.00	80020.00
Turbidity (JCU)	1	25.00	25.00	--	--	--	--	--
Turbidity (NTU)	2	3.40	2.80	--	--	--	--	--
Color (platinum cobalt scale)	1	140.00	140.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	7	2010.00	1500.00	1770.00	206.72	2000.00	1700.00	1610.00
pH, water, whole, field (standard units)	7	9.00	8.80	8.87	0.08	8.90	8.90	8.80
pH, water, whole, laboratory (standard units)	2	8.70	8.70	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	1.60	1.60	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	530.00	490.00	506.00	15.17	510.00	500.00	500.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	575.00	575.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	35.00	35.00	--	--	--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	0.44	0.44	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.04	0.04	--	--	--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	7	0.82	0.31	0.56	0.22	0.79	0.48	0.32
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.02	0.02	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.36	0.36	--	--	--	--	--
Phosphorus, total in bottom material, dry weight (mg/kg as P) <sup>1</sup>	1	1161.00	1161.00	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	12.00	12.00	--	--	--	--	--
Carbon, organic total in bottom material, dry weight (g/kg as C) <sup>1</sup>	1	500.00	500.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	7	50.63	7.96	18.08	14.94	19.65	12.45	9.03
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	7	4.50	2.00	2.74	0.92	3.40	2.30	2.10
Calcium, recoverable from bottom material, dry weight (mg/kg as Ca) <sup>1</sup>	1	13000.00	13000.00	--	--	--	--	--
Magnesium, recoverable from bottom material, dry weight (mg/kg as Mg) <sup>1</sup>	1	1.04	1.04	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	7	11.00	0.70	2.70	3.69	2.00	1.30	0.90
Sodium, dissolved (mg/L as Na)	7	480.00	340.00	417.14	49.90	480.00	410.00	390.00
Sodium adsorption ratio	7	60.47	20.81	49.46	13.37	58.19	52.02	47.34
Sodium (percent)	7	98.79	93.32	97.71	1.96	98.71	98.37	97.97
Sodium plus potassium, dissolved (mg/L as Na)	4	420.00	390.00	--	--	--	--	--

## Summary of water-quality data, September 13, 1976, through August 21, 1983--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sodium recoverable from bottom material, dry weight (mg/kg as Na) <sup>1</sup>	1	0.73	0.73	--	--	--	--	--
Potassium, dissolved (mg/L as K)	7	2.20	1.70	1.91	0.16	2.00	1.90	1.80
Potassium, recoverable from bottom material, dry weight (mg/kg as K) <sup>1</sup>	1	1.65	1.65	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	7	3.40	1.20	2.44	0.80	3.00	2.70	1.50
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	7	590.00	260.00	444.29	118.44	590.00	440.00	360.00
Fluoride, dissolved (mg/L as F)	7	0.80	0.60	0.70	0.08	0.80	0.70	0.60
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	10.00	9.50	9.80	0.25	10.00	10.00	9.50
Arsenic, total in bottom material (μg/g as As) <sup>1</sup>	1	16.00	16.00	--	--	--	--	--
Barium, total in bottom material (μg/g as Ba) <sup>1</sup>	1	832.00	832.00	--	--	--	--	--
Beryllium, total in bottom material (μg/g as Be) <sup>1</sup>	1	3.00	3.00	--	--	--	--	--
Boron, dissolved (μg/L as B)	7	1100.00	970.00	1010.00	41.23	1000.00	1000.00	1000.00
Chromium, total in bottom material (μg/g as Cr) <sup>1</sup>	1	49.00	49.00	--	--	--	--	--
Cobalt, dissolved (μg/L as Co)	1	2.00	2.00	--	--	--	--	--
Cobalt, total in bottom material (μg/g as Co) <sup>1</sup>	1	23.00	23.00	--	--	--	--	--
Copper, dissolved (μg/L as Cu)	1	2.00	2.00	--	--	--	--	--
Copper, total in bottom material (μg/g as Cu) <sup>1</sup>	1	30.00	30.00	--	--	--	--	--
Iron, dissolved (μg/L as Fe)	7	90.00	10.00	50.00	30.55	80.00	40.00	20.00
Lead, dissolved (μg/L as Pb)	1	20.00	20.00	--	--	--	--	--
Manganese, total in bottom material (μg/g as Mn) <sup>1</sup>	1	1971.00	1971.00	--	--	--	--	--
Manganese, dissolved (μg/L as Mn)	6	6.00	0.00	2.83	2.40	4.00	3.50	0.00
Molybdenum, dissolved (μg/L as Mo)	6	14.00	2.00	5.50	4.97	9.00	3.00	2.00
Molybdenum, total in bottom material (μg/g as Mo) <sup>1</sup>	1	4.00	4.00	--	--	--	--	--
Nickel, dissolved (μg/L as Ni)	1	4.00	4.00	--	--	--	--	--
Nickel, total in bottom material (μg/g as Ni) <sup>1</sup>	1	30.00	30.00	--	--	--	--	--
Strontium, dissolved (μg/L as Sr)	7	150.00	70.00	97.14	36.84	150.00	80.00	70.00
Strontium, total in bottom material (μg/g as Sr) <sup>1</sup>	1	308.00	308.00	--	--	--	--	--
Vanadium, dissolved (μg/L as V)	1	4.20	4.20	--	--	--	--	--
Vanadium, total in bottom material (μg/g as V) <sup>1</sup>	1	77.00	77.00	--	--	--	--	--
Zinc, total in bottom material (μg/g as Zn)	1	72.00	72.00	--	--	--	--	--
Aluminum, dissolved (μg/L as Al)	1	70.00	70.00	--	--	--	--	--
Aluminum, total in bottom material (μg/g as Al) <sup>1</sup>	1	5.39	5.39	--	--	--	--	--
Selenium, total in bottom material (μg/g as Se) <sup>1</sup>	1	1.10	1.10	--	--	--	--	--
Titanium, total in bottom material (μg/g as Ti) <sup>1</sup>	1	2985.00	2985.00	--	--	--	--	--
Iron, total in bottom material (μg/g as Fe) <sup>1</sup>	1	53000.00	53000.00	--	--	--	--	--
Uranium, natural, total (μg/L as U)	1	3.20	3.20	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	1340.00	917.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	7	1386.94	946.93	1182.72	158.29	1380.10	1169.83	1073.09
Solids, dissolved (tons per acre-foot)	7	1.82	1.25	1.58	0.20	1.81	1.59	1.46

Summary of water-quality data, September 13, 1976, through August 21, 1983--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Samples size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Nitrogen, ammonia, dissolved (mg/L as NH <sub>4</sub> )	1	0.05	0.05	--	--	--	--	--
Mercury, dissolved (µg/L as Hg)	1	0.60	0.60	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	2	1.30	1.30	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	2	2030.00	2020.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	2	490.00	480.00	--	--	--	--	--

<sup>1</sup> Analysis of formation material from test hole.

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463257103102301; local identifier, 136-099-31BCC; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2760.00 feet.

Summary of water-quality data, September 13, 1976, through July 15, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	7	14.00	9.00	11.64	2.02	14.00	11.00	10.00
Temperature, air (degrees Celsius)	2	29.00	29.00	--	--	--	--	--
Agency analyzing sample (code number)	6	80020.00	80020.00	80020.00	0.00	80020.00	80020.00	80020.00
Turbidity (JCU)	1	10.00	10.00	--	--	--	--	--
Turbidity (NTU)	2	2.10	1.50	--	--	--	--	--
Color (platinum cobalt scale)	1	260.00	260.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	7	4000.00	3500.00	3864.29	197.30	4000.00	4000.00	3700.00
pH, water, whole, field (standard units)	7	8.80	8.40	8.57	0.17	8.70	8.60	8.40
pH, water, whole, laboratory (standard units)	2	8.40	8.20	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	4.80	4.80	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	630.00	610.00	618.20	8.44	621.00	620.00	610.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	374.00	374.00	--	--	--	--	--
Carbonate, water, whole, total, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	189.00	189.00	--	--	--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	0.71	0.71	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.17	0.17	--	--	--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	7	1.30	0.62	1.04	0.25	1.30	1.10	0.88
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.07	0.07	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.25	0.25	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	37.00	37.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	7	48.42	29.70	37.02	6.77	41.74	36.83	29.72
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	7	13.00	6.00	8.63	2.52	10.00	8.70	6.00
Magnesium, dissolved (mg/L as Mg)	7	4.00	3.50	3.69	0.19	3.80	3.60	3.50
Sodium, dissolved (mg/L as Na)	7	910.00	840.00	884.29	23.70	900.00	890.00	870.00
Sodium adsorption ratio	7	72.24	56.78	64.22	6.52	72.24	63.35	57.09
Sodium (percent)	7	98.31	97.44	97.92	0.34	98.29	97.96	97.54
Sodium plus potassium, dissolved (mg/L as Na)	4	910.00	840.00	--	--	--	--	--
Potassium, dissolved (mg/L as K)	7	3.80	2.60	3.27	0.48	3.70	3.40	2.70
Chloride, dissolved (mg/L as Cl)	7	7.40	3.40	5.66	1.32	6.40	5.90	4.50
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	7	1400.00	1300.00	1357.14	53.45	1400.00	1400.00	1300.00
Fluoride, dissolved (mg/L as F)	7	1.40	1.30	1.36	0.05	1.40	1.40	1.30
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	8.70	7.80	8.24	0.35	8.70	8.20	8.00



## Summary of water-quality data, September 13, 1976, through July 15, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Arsenic, dissolved ( $\mu\text{g/L}$ as As)	1	2.00	2.00	--	--	--	--	--
Boron, dissolved ( $\mu\text{g/L}$ as B)	7	690.00	460.00	582.86	84.40	650.00	600.00	480.00
Copper, dissolved ( $\mu\text{g/L}$ as Cu)	1	4.00	4.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	7	190.00	40.00	111.43	52.10	170.00	100.00	80.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	1	17.00	17.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	7	50.00	40.00	41.43	3.78	40.00	40.00	40.00
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	7	2.00	0.00	1.43	0.79	2.00	2.00	1.00
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	7	280.00	230.00	252.86	16.04	260.00	250.00	240.00
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	1	4.90	4.90	--	--	--	--	--
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	1	20.00	20.00	--	--	--	--	--
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	1	40.00	40.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	1	40.00	40.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	2720.00	2700.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	7	2694.03	2553.14	2639.27	52.81	2692.73	2657.11	2594.69
Solids, dissolved (tons per acre-foot)	7	3.70	3.47	3.63	0.08	3.69	3.66	3.56
Nitrogen, ammonia, dissolved (mg/L as $\text{NH}_4$ )	1	0.22	0.22	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	2	2.00	1.90	--	--	--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	2	3810.00	3790.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	2	590.00	590.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463417103080401; local identifier, 136-099-20DDDD; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2700.00 feet.

# Summary of water-quality data, September 8, 1976, through June 25, 1980

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	5	17.00	9.00	13.40	3.31	15.50	14.50	11.00
Agency analyzing sample, (code number)	3	80020.00	80020.00	--	--	--	--	--
Color (platinum cobalt scale)	1	4500.00	4500.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	5	1650.00	1500.00	1572.00	58.91	1600.00	1580.00	1530.00
pH, water, whole, field (standard units)	5	8.90	8.80	8.84	0.05	8.90	8.80	8.80
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	2.40	2.40	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	4	778.00	432.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	884.00	884.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	32.00	32.00	--	--	--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	1.55	1.55	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.35	0.35	--	--	--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	4	1.90	1.10	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.43	0.43	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.60	0.60	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	125.00	125.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	4	43.00	10.50	--	--	--	--	--
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	4	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	4	17.00	3.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	3	3.50	0.70	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	4	380.00	270.00	--	--	--	--	--
Sodium adsorption ratio	3	39.18	31.31	--	--	--	--	--
Sodium (percent)	4	97.97	14.00	--	--	--	--	--
Sodium plus potassium, dissolved (mg/L as Na)	3	330.00	270.00	--	--	--	--	--
Potassium, dissolved (mg/L as K)	4	2.30	1.90	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	4	110.00	10.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	4	140.00	100.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	4	2.70	0.20	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	4	8.30	0.80	--	--	--	--	--
Arsenic, dissolved (µg/L as As)	1	17.00	17.00	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	1	200.00	200.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	4	1900.00	590.00	--	--	--	--	--
Cadmium, dissolved (µg/L as Cd)	1	2.00	2.00	--	--	--	--	--
Cobalt, dissolved (µg/L as Co)	1	2.00	2.00	--	--	--	--	--

Summary of water-quality data, September 8, 1976, through June 25, 1980--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Copper, dissolved ( $\mu\text{g/L}$ as Cu)	1	13.00	13.00	--	--	--	--	--
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	4	610.00	120.00	--	--	--	--	--
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	1	55.00	55.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	4	110.00	20.00	--	--	--	--	--
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	4	3.00	0.00	--	--	--	--	--
Nickel, dissolved ( $\mu\text{g/L}$ as Ni)	1	15.00	15.00	--	--	--	--	--
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	4	120.00	100.00	--	--	--	--	--
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	1	50.00	50.00	--	--	--	--	--
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	1	650.00	650.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	1	20.00	20.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	4	1028.76	741.36	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	4	1.40	1.01	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as $\text{NH}_4$ )	1	0.45	0.45	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463433102352701; local identifier, 136-095-23CCB1; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125SNLB.

DATUM.--Altitude of land surface datum is not available.

Summary of water-quality data, September 9, 1969

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Sampling depth (feet)	1	734.00	734.00	--	--	--	--	--
Water temperature (degrees Celsius)	1	12.50	12.50	--	--	--	--	--
Agency collecting sample (code number)	1	80020.00	80020.00	--	--	--	--	--
Agency analyzing sample (code number)	1	80020.00	80020.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	2	1650.00	1080.00	--	--	--	--	--
pH, water, whole, field (standard units)	1	8.70	8.70	--	--	--	--	--
pH, water, whole, laboratory (standard units)	1	8.50	8.50	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	1	530.00	530.00	--	--	--	--	--
Solids, residue on total evaporation at 105 degrees Celsius (mg/L)	1	1250.00	1250.00	--	--	--	--	--
Residue, total loss of ignition, volatile (mg/L)	1	134.00	134.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	2	20.00	11.94	--	--	--	--	--
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	1	2.60	2.60	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	1	1.30	1.30	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	410.00	320.00	--	--	--	--	--
Sodium adsorption ratio	1	51.84	51.84	--	--	--	--	--
Sodium (percent)	1	98.40	98.40	--	--	--	--	--
Potassium, dissolved (mg/L as K)	1	2.10	2.10	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	1	25.00	25.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	1	180.00	180.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	1	3.70	3.70	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	1	15.00	15.00	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	1	130.00	130.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	1	1400.00	1400.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	2	1200.00	650.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	1	20.00	20.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	1	1160.00	1160.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	2	1041.18	860.00	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	1	1.58	1.58	--	--	--	--	--
Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	1	2.00	2.00	--	--	--	--	--
Depth of well, total (feet)	1	100.00	100.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	1	1750.00	1750.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	1	665.00	665.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463532102591501; local identifier, 136-098-15CBB; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is 2610.00 feet.

Summary of water-quality data, August 31, 1976, through July 24, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	5	9.00	7.60	8.72	0.63	9.00	9.00	9.00
Agency analyzing sample (code number)	3	80020.00	80020.00	--	--	--	--	--
Turbidity (JCU)	1	2.00	2.00	--	--	--	--	--
Turbidity (NTU)	2	1.00	0.70	--	--	--	--	--
Color (platinum cobalt scale)	1	220.00	220.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	5	1810.00	1700.00	1773.00	43.24	1800.00	1780.00	1775.00
pH, water, whole, field (standard units)	5	8.40	8.10	8.22	0.13	8.30	8.20	8.10
pH, water, whole, laboratory (standard units)	2	8.20	8.10	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	4.40	4.40	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	3	570.00	560.00	--	--	--	--	--
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	638.00	638.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	27.00	27.00	--	--	--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	0.16	0.16	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.23	0.23	--	--	--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	4	0.99	0.36	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.01	0.01	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.11	0.11	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	11.00	11.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	5	28.54	11.00	20.71	7.28	27.40	18.50	18.09
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	4	0.00	0.00	--	--	--	--	--
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	5	8.40	4.20	5.94	2.12	8.10	4.70	4.30
Magnesium, dissolved (mg/L as Mg)	4	1.90	1.50	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	5	440.00	410.00	420.00	12.25	420.00	420.00	410.00
Sodium adsorption ratio	4	45.24	34.31	--	--	--	--	--
Sodium (percent)	5	97.81	18.00	81.39	35.44	97.65	96.81	96.67
Sodium plus potassium, dissolved (mg/L as Na)	2	440.00	410.00	--	--	--	--	--
Potassium, dissolved (mg/L as K)	5	2.90	2.30	2.58	0.26	2.80	2.50	2.40
Chloride, dissolved (mg/L as Cl)	5	4.30	3.70	3.94	0.25	4.00	4.00	3.70
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	5	380.00	340.00	364.00	18.17	380.00	370.00	350.00
Fluoride, dissolved (mg/L as F)	5	1.20	1.10	1.16	0.05	1.20	1.20	1.10
Silica, dissolved (mg/L as SiO <sub>2</sub> )	5	12.00	9.80	11.16	0.91	12.00	11.00	11.00
Beryllium, dissolved (µg/L as Be)	1	10.00	10.00	--	--	--	--	--

## Summary of water-quality data, August 31, 1976, through July 24, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Boron, dissolved ( $\mu\text{g/L}$ as B)	5	540.00	450.00	492.00	40.87	520.00	500.00	450.00
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	5	80.00	30.00	52.00	21.68	70.00	40.00	40.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	1	2.00	2.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	3	20.00	8.00	--	--	--	--	--
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	1	4.00	4.00	--	--	--	--	--
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	5	250.00	130.00	168.00	47.12	160.00	150.00	150.00
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	1	1.60	1.60	--	--	--	--	--
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	1	30.00	30.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	1	20.00	20.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	1190.00	1120.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	5	1171.40	1120.00	1147.75	23.21	1167.36	1152.63	1127.34
Solids, dissolved (tons per acre-foot)	5	1.62	1.52	1.57	0.04	1.59	1.58	1.52
Nitrogen, ammonia, dissolved (mg/L as $\text{NH}_4$ )	1	0.30	0.30	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	1	1.70	1.70	--	--	--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	2	1810.00	1790.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	2	562.00	540.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463538103053501; local identifier, 136-099-15ADD; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--12SSNLB.

DATUM.--Altitude of land surface datum is 2700.00 feet.

Summary of water-quality data, September 1, 1976, through July 24, 1981

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	7	11.50	8.00	9.71	1.22	11.00	9.50	9.00
Temperature, air (degrees Celsius)	1	22.50	22.50	--	--	--	--	--
Agency analyzing sample (code number)	5	80020.00	80020.00	80020.00	0.00	80020.00	80020.00	80020.00
Turbidity (JCU)	1	4.00	4.00	--	--	--	--	--
Turbidity (NTU)	2	1.50	0.80	--	--	--	--	--
Color (platinum cobalt scale)	1	180.00	180.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	7	3700.00	3500.00	3617.14	85.97	3700.00	3600.00	3520.00
pH, water, whole, field (standard units)	7	8.40	8.00	8.23	0.15	8.40	8.20	8.10
pH, water, whole, laboratory (standard units)	2	8.20	8.10	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	9.70	9.70	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	820.00	780.00	799.80	18.85	820.00	790.00	789.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	962.00	962.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	0.41	0.41	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.39	0.39	--	--	--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	6	1.40	0.56	0.90	0.31	1.00	0.90	0.63
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.02	0.02	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.14	0.14	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	11.00	11.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	7	100.00	75.67	84.75	8.83	90.21	83.23	75.68
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	7	40.00	18.00	22.86	7.71	22.00	21.00	18.00
Magnesium, dissolved (mg/L as Mg)	6	9.00	7.10	7.67	0.72	8.00	7.30	7.30
Sodium, dissolved (mg/L as Na)	7	860.00	810.00	828.57	15.74	830.00	830.00	820.00
Sodium adsorption ratio	6	41.20	38.07	39.75	1.34	40.70	40.18	38.18
Sodium (percent)	7	95.53	38.00	87.03	21.62	95.48	95.23	94.78
Sodium plus potassium, dissolved (mg/L as Na)	4	870.00	820.00	--	--	--	--	--
Potassium, dissolved (mg/L as K)	7	8.20	6.00	6.99	0.84	7.70	6.60	6.20
Chloride, dissolved (mg/L as Cl)	7	9.50	2.90	5.99	2.71	9.50	5.70	2.90
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	7	1100.00	1000.00	1071.43	48.79	1100.00	1100.00	1000.00
Fluoride, dissolved (mg/L as F)	7	0.50	0.30	0.40	0.06	0.40	0.40	0.40
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	9.00	7.40	8.10	0.65	8.80	7.80	7.50

## Summary of water-quality data, September 1, 1976, through July 24, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Arsenic, dissolved (µg/L as As)	1	1.00	1.00	--	--	--	--	--
Beryllium, dissolved (µg/L as Be)	1	10.00	10.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	7	1600.00	1100.00	1285.71	186.45	1500.00	1200.00	1200.00
Copper, dissolved (µg/L as Cu)	1	2.00	2.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	7	2700.00	10.00	470.00	992.79	400.00	40.00	20.00
Lead, dissolved (µg/L as Pb)	1	9.00	9.00	--	--	--	--	--
Manganese, total (µg/L as Mn)	1	60.00	60.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	7	90.00	40.00	55.71	16.18	60.00	50.00	50.00
Molybdenum, dissolved (µg/L as Mo)	4	4.00	0.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	7	640.00	570.00	598.57	28.54	630.00	590.00	570.00
Vanadium, dissolved (µg/L as V)	1	2.70	2.70	--	--	--	--	--
Zinc, dissolved (µg/L as Zn)	1	20.00	20.00	--	--	--	--	--
Aluminum, dissolved (µg/L as Al)	1	40.00	40.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	1	60.00	60.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	2510.00	2460.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	7	2475.75	2366.11	2433.93	36.13	2458.35	2438.21	2420.00
Solids, dissolved (tons per acre-foot)	7	3.41	3.22	3.32	0.07	3.39	3.32	3.29
Nitrogen, ammonia, dissolved (mg/L as NH <sub>4</sub> )	1	0.50	0.50	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	1	4.50	4.50	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	2	3500.00	3470.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	2	818.00	790.00	--	--	--	--	--



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463559102581001; local identifier, 136-098-15AAA; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2670.00 feet.

Summary of water-quality data, September 2, 1976, through July 24, 1981

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	7	15.50	9.00	11.29	2.04	11.50	11.00	10.00
Temperature, air (degrees Celsius)	2	24.00	23.00	--	--	--	--	--
Agency analyzing sample (code number)	6	80020.00	80020.00	80020.00	0.00	80020.00	80020.00	80020.00
Turbidity (JCU)	1	120.00	120.00	--	--	--	--	--
Turbidity (NTU)	2	9.50	6.70	--	--	--	--	--
Color (platinum cobalt scale)	1	140.00	140.00	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	7	1800.00	1325.00	1498.57	171.87	1590.00	1430.00	1325.00
pH, water, whole, field (standard units)	7	8.75	8.50	8.61	0.09	8.70	8.60	8.50
pH, water, whole, laboratory (standard units)	2	8.50	8.40	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	4.20	4.20	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	675.00	540.00	631.00	54.36	670.00	640.00	630.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	738.00	738.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	42.00	42.00	--	--	--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	1.10	1.10	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.30	0.30	--	--	--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	7	1.40	0.49	0.80	0.37	1.10	0.61	0.50
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.06	0.06	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.22	0.22	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	10.00	10.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	7	44.63	19.09	24.12	9.20	23.80	20.16	19.21
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	7	10.00	4.60	5.96	1.90	6.50	5.10	4.70
Magnesium, dissolved (mg/L as Mg)	7	4.70	1.50	2.20	1.12	2.00	1.80	1.60
Sodium, dissolved (mg/L as Na)	7	390.00	260.00	340.00	41.63	370.00	340.00	330.00
Sodium adsorption ratio	7	36.03	25.49	30.98	4.21	35.28	31.62	25.91
Sodium (percent)	7	97.10	94.35	96.34	0.95	97.07	96.69	96.09
Sodium plus potassium, dissolved (mg/L as Na)	4	370.00	260.00	--	--	--	--	--
Potassium, dissolved (mg/L as K)	7	5.10	2.70	3.46	0.87	4.20	3.10	2.80
Chloride, dissolved (mg/L as Cl)	7	15.00	4.30	6.93	3.67	7.10	5.70	4.90
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	7	210.00	1.00	123.17	86.80	180.00	160.00	1.20
Fluoride, dissolved (mg/L as F)	7	4.10	0.00	3.19	1.43	4.00	3.60	3.40
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	9.60	6.50	8.49	1.02	9.30	8.80	8.00

## Summary of water-quality data, September 2, 1976, through July 24, 1981--Continued

Water-quality constituent	Descriptive statistics						Percent of samples in which values were less than or equal to those shown	
	Sample size	Maximum	Minimum	Mean	Standard deviation	Median	75	25
Arsenic, dissolved (µg/L as As)	1	1.00	1.00	--	--	--	--	--
Beryllium, dissolved (µg/L as Be)	1	10.00	10.00	--	--	--	--	--
Boron, dissolved (µg/L as B)	7	480.00	400.00	454.29	28.20	460.00	480.00	440.00
Copper, dissolved (µg/L as Cu)	1	4.00	4.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	7	300.00	30.00	114.29	99.64	80.00	190.00	40.00
Lead, dissolved (µg/L as Pb)	1	17.00	17.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	5	20.00	10.00	18.00	4.47	20.00	20.00	20.00
Molybdenum, dissolved (µg/L as Mo)	4	14.00	3.00	--	--	--	--	--
Nickel, dissolved (µg/L as Ni)	1	6.00	6.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	7	260.00	120.00	155.71	48.60	150.00	160.00	120.00
Vanadium, dissolved (µg/L as V)	1	3.60	3.60	--	--	--	--	--
Aluminum, dissolved (µg/L as Al)	1	120.00	120.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	1	30.00	30.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	1060.00	843.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	7	1045.80	795.68	887.01	101.70	829.64	980.39	800.51
Solids, dissolved (tons per acre-foot)	7	1.44	1.10	1.23	0.13	1.17	1.33	1.13
Nitrogen, ammonia, dissolved (mg/L as NH <sub>4</sub> )	1	0.39	0.39	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	2	2.10	2.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	2	1400.00	1370.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	2	720.00	710.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463718103161001; local identifier, 136-100-05CAAAA; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2901.00 feet.

Summary of water-quality data, May 24, 1984, through November 8, 1984

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	1	8.60	8.60	--	--	--	--	--
Agency collecting sample (code number)	7	1028.00	1028.00	1028.00	0.00	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	7	80020.00	1028.00	12312.57	29856.17	1028.00	1028.00	1028.00
Specific conductance (µS/cm at 25 degrees Celsius)	1	2240.00	2240.00	--	--	--	--	--
pH, water, whole, field (standard units)	1	8.90	8.90	--	--	--	--	--
pH, water, whole, laboratory (standard units)	7	9.80	8.40	8.83	0.47	9.00	8.65	8.56
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	6	620.00	110.00	438.33	178.15	560.00	460.00	420.00
Nitrogen, organic, total (mg/L as N)	1	1.90	1.90	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as N)	1	0.20	0.20	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	1	2.10	2.10	--	--	--	--	--
Phosphorus, total (mg/L as P)	1	0.45	0.45	--	--	--	--	--
Carbon, organic, total (mg/L as C)	1	28.00	28.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	7	209.74	12.50	135.15	63.57	170.18	154.32	98.01
Calcium, dissolved (mg/L as Ca)	7	51.00	3.40	37.63	16.54	50.00	42.00	31.00
Magnesium, dissolved (mg/L as Mg)	7	20.00	0.88	9.98	5.97	12.00	11.00	5.00
Sodium, dissolved (mg/L as Na)	7	530.00	92.00	190.14	152.83	167.00	150.00	93.00
Sodium adsorption ratio	7	66.27	3.16	13.53	23.28	6.24	5.24	3.26
Chloride, dissolved (mg/L as Cl)	1	25.00	25.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	6	310.00	0.60	91.33	141.02	231.00	2.85	0.70
Fluoride, dissolved (mg/L as F)	1	1.20	1.20	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	1	9.50	9.50	--	--	--	--	--
Arsenic, dissolved (µg/L as As)	1	28.00	28.00	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	1	83.00	83.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	1	95.00	95.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	1	30.00	30.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	1	280.00	280.00	--	--	--	--	--
Vanadium, dissolved (µg/L as V)	1	21.00	21.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	1	14.00	14.00	--	--	--	--	--
Beta, gross, dissolved (pCi/L as Cs-137)	1	33.00	33.00	--	--	--	--	--
Beta, gross, suspended (pCi/L as Cs-137)	1	44.00	44.00	--	--	--	--	--
Radium 226, dissolved, planchet count (pCi/L)	1	0.70	0.70	--	--	--	--	--
Uranium, natural, water, dissolved (µg/L)	7	87.00	0.60	15.83	31.58	10.00	3.60	1.20
Phosphorus, orthophosphate, total (mg/L as P)	1	0.30	0.30	--	--	--	--	--

Site number, 463718103161001

Summary of water-quality data, May 24, 1984, through November 8, 1984--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Depth to top of sample interval (feet below LSD)	6	25.00	0.00	12.50	9.35	20.00	12.50	5.00
Depth to bottom of sample interval (feet below LSD)	6	30.00	5.00	17.50	9.35	25.00	17.50	10.00
Depth below land surface, water level (feet)	1	26.50	26.50	--	--	--	--	--
Alpha, gross, dissolved ( $\mu\text{g/L}$ as U natural)	1	210.00	210.00	--	--	--	--	--
Alpha, gross radioactivity, suspended, total ( $\mu\text{g/L}$ as U natural)	1	52.00	52.00	--	--	--	--	--
Beta, gross, dissolved (pCi/L as strontium/yttrium-90)	1	28.00	28.00	--	--	--	--	--
Beta, gross, radioactivity, suspended, total (pCi/L as strontium/yttrium-90)	1	38.00	38.00	--	--	--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	7	2190.00	348.00	1259.29	739.91	1931.00	1274.00	365.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	1	448.00	448.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463721103155101; local identifier, 136-100-05ACDD1; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2891.00 feet.

Summary of water-quality data, December 13, 1983, through November 9, 1984

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	1	8.60	8.60	--	--	--	--	--
Agency collecting sample (code number)	22	1028.00	1028.00	1028.00	0.00	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	22	80020.00	1028.00	4618.54	16841.15	1028.00	1028.00	1028.00
Specific conductance (µS/cm at 25 degrees Celsius)	1	6990.00	6990.00	--	--	--	--	--
pH, water, whole, field (standard units)	7	6.70	3.37	5.22	1.62	6.68	6.00	3.46
pH, water, whole, laboratory (standard units)	1	7.50	7.50	--	--	--	--	--
Nitrogen, organic, total (mg/L as N)	1	0.30	0.30	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as N)	1	5.70	5.70	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	1	6.00	6.00	--	--	--	--	--
Phosphorus, total (mg/L as P)	1	0.63	0.63	--	--	--	--	--
Carbon, organic, total (mg/L as C)	1	20.00	20.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	20	39855.90	193.71	10644.26	11342.82	16321.71	8319.24	1326.34
Calcium, dissolved (mg/L as Ca)	21	66432.00	41.00	5492.06	14217.96	4197.20	1449.00	435.00
Magnesium, dissolved (mg/L as Mg)	21	5444.40	22.00	1266.65	1447.24	1730.00	1211.00	95.00
Sodium, dissolved (mg/L as Na)	21	2898.00	24.00	757.46	749.06	1004.00	658.00	128.00
Sodium adsorption ratio	21	30.84	0.12	5.45	6.82	7.43	3.81	0.82
Sodium (percent)	1	87.63	87.63	--	--	--	--	--
Potassium, dissolved (mg/L as K)	1	10.00	10.00	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	1	9.70	9.70	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	20	8363.00	18.00	2673.50	2640.53	3810.00	1845.00	446.00
Fluoride, dissolved (mg/L as F)	1	0.20	0.20	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	290.00	19.00	100.57	98.96	157.00	70.00	24.00
Arsenic, dissolved (µg/L as As)	1	18.00	18.00	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	6	1016.00	102.00	616.17	301.12	748.00	654.00	523.00
Beryllium, dissolved (µg/L as Be)	4	67.00	19.00	--	--	--	--	--
Chromium, dissolved (µg/L as Cr)	1	40.00	40.00	--	--	--	--	--
Cobalt, dissolved (µg/L as Co)	3	116.00	58.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	6	11000.00	506.00	6018.17	4576.30	10160.00	6950.50	542.00
Lead, dissolved (µg/L as Pb)	1	175.00	175.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	6	8999.00	166.00	3571.17	3599.56	6828.00	2608.50	217.00
Molybdenum, dissolved (µg/L as Mo)	1	53.00	53.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	6	4196.00	203.00	1270.33	1553.95	1858.00	513.50	338.00
Vanadium, dissolved (µg/L as V)	1	140.00	140.00	--	--	--	--	--

Site number, 463721103155101

Summary of water-quality data, December 13, 1983, through November 9, 1984--Continued

Water-quality constituent	Descriptive statistics						Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation		75	Median 50	25
Zinc, dissolved (µg/L as Zn)	7	956.00	50.00	463.00	328.90		784.00	458.00	210.00
Lithium, dissolved (µg/L as Li)	5	639.00	96.00	308.80	235.13		465.00	222.00	122.00
Solids, sum of constituents, dissolved (mg/L)	1	5317.41	5317.41	--	--		--	--	--
Solids, dissolved (tons per acre-foot)	1	7.23	7.23	--	--		--	--	--
Phosphorus, orthophosphate, total (mg/L as P)	1	0.19	0.19	--	--		--	--	--
Depth to top of sample interval (feet below LSD)	21	22.00	0.00	11.57	8.57		20.00	15.00	2.00
Depth to bottom of sample interval (feet below LSD)	21	23.00	1.00	12.57	8.57		21.00	16.00	3.00
Depth below land surface, water level (feet)	1	21.38	21.38	--	--		--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	7	248270.00	516.00	39316.57	92188.71		9202.00	5150.00	1471.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	1	388.00	388.00	--	--		--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463721103155102; local identifier, 136-100-05ACDD2; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2892.00 feet.

Summary of water-quality data, June 1, 1984

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Radon 222, total counts error (pCi/L)	1	6.40	6.40	--	--	--	--	--
Radon 222, total (pCi/L)	1	765.80	765.80	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463721103155103; local identifier, 136-100-05ACDD3; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2893.00 feet.

Summary of water-quality data, June 1, 1984

Water-quality constituent	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--
Agency analyzing sample (code number)	1	1028.00	1028.00	--	--	--	--
Radon 222, total counts error (pCi/L)	1	6.20	6.20	--	--	--	--
Radon 222, total (pCi/L)	1	1224.00	1224.00	--	--	--	--



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463721103155104; local identifier, 136-100-05ACDD4; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2894.00 feet.

Summary of water-quality data, June 1, 1984

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Radon 222, total counts error (pCi/L)	1	5.00	5.00	--	--	--	--	--
Radon 222, total (pCi/L)	1	1881.00	1881.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463725103155601; local identifier, 136-100-05ACDB1; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2936.00 feet.

Summary of water-quality data, December 13, 1983, through November 8, 1984

Water-quality constituent	Sample size	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation	75	Median	25
Water temperature (degrees Celsius)	2	10.00	8.90	--	--	--	--	--
Temperature, air (degrees Celsius)	1	21.00	21.00	--	--	--	--	--
Agency collecting sample (code number)	3	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	3	80020.00	1028.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	2	5500.00	4700.00	--	--	--	--	--
pH, water, whole, field (standard units)	2	8.60	8.40	--	--	--	--	--
pH, water, whole, laboratory (standard units)	2	8.30	8.10	--	--	--	--	--
Nitrogen, organic, total (mg/L as N)	2	2.93	2.51	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as N)	2	0.49	0.47	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	2	3.40	3.00	--	--	--	--	--
Phosphorus, total (mg/L as P)	2	0.90	0.40	--	--	--	--	--
Carbon, organic, total (mg/L as C)	2	31.00	25.00	--	--	--	--	--
Hardness, total (mg/L as CaCO3)	2	74.16	68.79	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	2	18.00	17.00	--	--	--	--	--
Magnesium, dissolved (mg/L as Mg)	2	7.00	6.30	--	--	--	--	--
Sodium, dissolved (mg/L as Na)	2	1300.00	1300.00	--	--	--	--	--
Sodium adsorption ratio	2	68.41	65.87	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	6.90	4.60	--	--	--	--	--
Sulfate, dissolved (mg/L as SO4)	2	2100.00	1800.00	--	--	--	--	--
Fluoride, dissolved (mg/L as F)	2	1.10	1.00	--	--	--	--	--
Silica, dissolved (mg/L as SiO2)	2	8.40	7.80	--	--	--	--	--
Arsenic, dissolved (µg/L as As)	2	6.00	6.00	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	2	63.00	45.00	--	--	--	--	--
Beryllium, dissolved (µg/L as Be)	1	4.00	4.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	2	210.00	54.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	2	55.00	39.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	2	300.00	300.00	--	--	--	--	--
Zinc, dissolved (µg/L as Zn)	1	39.00	39.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	2	160.00	39.00	--	--	--	--	--
Beta, gross, suspended (pCi/L as Cs-137)	2	33.00	14.00	--	--	--	--	--
Radium 226, dissolved, planchet count (pCi/L)	2	0.70	0.60	--	--	--	--	--
Uranium, natural, water, dissolved (µg/L)	2	16.00	13.00	--	--	--	--	--
Phosphorus, orthophosphate, total (mg/L as P)	2	0.22	0.22	--	--	--	--	--

Site number, 463725103155601

Summary of water-quality data, December 13, 1983, through November 8, 1984--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Depth below land surface, water level (feet)	2	84.90	72.25	--	--	--	--	--
Alpha, gross radioactivity, suspended, total (µg/L as U natural)	2	69.00	26.00	--	--	--	--	--
Beta, gross, radioactivity, suspended, total (pCi/L as strontium/yttrium-90)	2	29.00	12.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	2	5450.00	5310.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	2	909.00	512.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463725103155602; local identifier, 136-100-05ACDB2; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2936.00 feet.

Summary of water-quality data, December 13, 1983, through June 1, 1984

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median	25
Agency collecting sample (code number)	24	1028.00	1028.00	1028.00	0.00	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	24	1028.00	1028.00	1028.00	0.00	1028.00	1028.00	1028.00
pH, water, whole, field (standard units)	6	7.66	4.55	6.18	1.36	7.39	6.29	4.93
pH, water, whole, laboratory (standard units)	2	7.66	4.93	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	21	19951.29	386.83	5303.81	4783.60	7466.94	5002.05	2287.86
Calcium, dissolved (mg/L as Ca)	22	100560.00	105.00	5769.41	21195.38	1995.00	1073.50	484.00
Magnesium, dissolved (mg/L as Mg)	22	2304.00	29.00	508.18	554.08	654.00	277.50	134.00
Sodium, dissolved (mg/L as Na)	22	5236.00	236.00	2212.00	1446.11	3103.00	1907.50	1275.00
Sodium adsorption ratio	22	28.25	1.82	13.97	7.88	17.71	12.48	9.49
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	22	7592.00	245.00	1755.41	1681.47	1986.00	1266.00	676.00
Silica, dissolved (mg/L as SiO <sub>2</sub> )	6	2099.00	46.00	533.83	799.33	623.00	188.50	58.00
Barium, dissolved (µg/L as Ba)	6	14417.00	1020.00	5546.33	6062.47	12107.00	2357.00	1020.00
Beryllium, dissolved (µg/L as Be)	2	335.00	5.81	--	--	--	--	--
Cadmium, dissolved (µg/L as Cd)	1	121.00	121.00	--	--	--	--	--
Cobalt, dissolved (µg/L as Co)	2	712.00	351.00	--	--	--	--	--
Copper, dissolved (µg/L as Cu)	5	5029.00	232.00	1942.60	2216.14	3561.00	659.00	232.00
Iron, dissolved (µg/L as Fe)	6	119290.00	637.00	31690.17	45828.38	43585.00	11460.50	3708.00
Lead, dissolved (µg/L as Pb)	1	1161.00	1161.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	6	186540.00	1136.00	34019.67	74773.95	8902.00	3202.00	1136.00
Molybdenum, dissolved (µg/L as Mo)	1	1161.00	1161.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	6	4526.00	255.00	1463.83	1577.80	1319.00	1214.00	255.00
Vanadium, dissolved (µg/L as V)	2	1773.00	701.00	--	--	--	--	--
Zinc, dissolved (µg/L as Zn)	6	18440.00	371.00	6795.00	7758.49	14600.00	3494.00	371.00
Lithium, dissolved (µg/L as Li)	4	1182.00	154.00	--	--	--	--	--
Depth to top of sample interval (feet below LSD)	24	30.00	0.00	13.08	10.93	22.50	9.00	3.00
Depth to bottom of sample interval (feet below LSD)	24	31.00	1.00	14.08	10.93	23.50	10.00	4.00
Specific conductance (µS/cm at 25 degrees Celsius)	8	9052.00	1610.00	5087.13	2845.33	7717.00	4574.00	2726.50

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463725103155603; local identifier, 136-100-05ACDB3; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2936.00 feet.

Summary of water-quality data, June 1, 1984

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Radon 222, total counts error (pCi/L)	1	18.80	18.80	--	--	--	--	--
Radon 222, total (pCi/L)	1	9.68	9.68	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463725103155604; local identifier, 136-100-05ACDB4; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2936.00 feet.

Summary of water-quality data, June 1, 1984

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Radon 222, total counts error (pCi/L)	1	9.80	9.80	--	--	--	--	--
Radon 222, total (pCi/L)	1	165.30	165.30	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463725103155605; local identifier, 136-100-05ACDB5; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2936.00 feet.

Summary of water-quality data, June 1, 1984

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Radon 222, total counts error (pCi/L)	1	6.00	6.00	--	--	--	--	--
Radon 222, total (pCi/L)	1	866.60	866.60	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463725103155606; local identifier, 136-100-05ACDB6; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2936.00 feet.

Summary of water-quality data, June 1, 1984

Water-quality constituent	Descriptive statistics				Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--
Agency analyzing sample (code number)	1	1028.00	1028.00	--	--	--	--
Radon 222, total counts error (pCi/L)	1	6.50	6.50	--	--	--	--
Radon 222, total (pCi/L)	1	1120.00	1120.00	--	--	--	--



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463725103155607; local identifier, 136-100-05ACDB7; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2936.00 feet.

Summary of water-quality data, June 1, 1984

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Agency collecting sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Agency analyzing sample (code number)	1	1028.00	1028.00	--	--	--	--	--
Radon 222, total counts error (pCi/L)	1	9.20	9.20	--	--	--	--	--
Radon 222, total (pCi/L)	1	221.10	221.10	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463728103160501; local identifier, 136-100-05ACBC; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2906.00 feet.

Summary of water-quality data, May 25, 1984, through November 8, 1984

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	2	15.00	10.70	--	--	--	--	--
Temperature, air (degrees Celsius)	1	26.00	26.00	--	--	--	--	--
Agency collecting sample (code number)	6	1028.00	1028.00	1028.00	0.00	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	6	80020.00	1028.00	27358.67	40791.29	80020.00	1028.00	1028.00
Specific conductance (µS/cm at 25 degrees Celsius)	2	3600.00	2950.00	--	--	--	--	--
pH, water, whole, field (standard units)	2	6.10	5.90	--	--	--	--	--
pH, water, whole, laboratory (standard units)	6	8.52	5.72	7.49	1.24	8.40	8.10	6.10
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	4	600.00	320.00	--	--	--	--	--
Nitrogen, total (mg/L as N)	1	5.00	5.00	--	--	--	--	--
Nitrogen, organic, total (mg/L as N)	2	4.10	3.03	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as N)	2	0.80	0.77	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	2	4.90	3.80	--	--	--	--	--
Nitrogen, nitrite plus nitrate, total (mg/L as N)	1	0.10	0.10	--	--	--	--	--
Phosphorus, total (mg/L as P)	2	0.30	0.15	--	--	--	--	--
Carbon, organic, total (mg/L as C)	2	130.00	110.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	6	530.08	235.29	312.51	111.55	324.98	270.44	243.83
Calcium, dissolved (mg/L as Ca)	6	110.00	63.00	77.50	17.96	83.00	72.50	64.00
Magnesium, dissolved (mg/L as Mg)	6	62.00	17.00	28.83	16.95	31.00	22.00	19.00
Sodium, dissolved (mg/L as Na)	6	710.00	28.00	305.33	323.35	710.00	173.00	38.00
Sodium adsorption ratio	6	20.16	0.76	7.89	8.91	18.29	3.52	1.06
Chloride, dissolved (mg/L as Cl)	2	60.00	59.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	5	1800.00	16.00	784.80	894.55	1700.00	387.00	21.00
Fluoride, dissolved (mg/L as F)	2	0.40	0.30	--	--	--	--	--
Silica, dissolved (mg/L as SiO <sub>2</sub> )	2	57.00	54.00	--	--	--	--	--
Arsenic, dissolved (µg/L as As)	2	170.00	160.00	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	2	53.00	51.00	--	--	--	--	--
Beryllium, dissolved (µg/L as Be)	1	3.00	3.00	--	--	--	--	--
Cadmium, dissolved (µg/L as Cd)	2	6.00	4.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	2	9600.00	8100.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	2	420.00	420.00	--	--	--	--	--
Molybdenum, dissolved (µg/L as Mo)	2	800.00	790.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	2	630.00	350.00	--	--	--	--	--
Vanadium, dissolved (µg/L as V)	2	36.00	33.00	--	--	--	--	--

## Summary of water-quality data, May 25, 1984, through November 8, 1984--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Zinc, dissolved ( $\mu\text{g/L}$ as Zn)	2	33.00	22.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	2	110.00	93.00	--	--	--	--	--
Beta, gross, dissolved (pCi/L as Cs-137)	2	140.00	68.00	--	--	--	--	--
Beta, gross, suspended (pCi/L as Cs-137)	2	38.00	31.00	--	--	--	--	--
Radium 226, dissolved, planchet count (pCi/L)	2	20.00	15.00	--	--	--	--	--
Uranium, natural, water, dissolved ( $\mu\text{g/L}$ )	6	160.00	1.80	59.57	71.73	140.00	26.00	3.60
Phosphorus, orthophosphate, total (mg/L as P)	2	0.26	0.09	--	--	--	--	--
Nitrogen, total (mg/L as NO <sub>3</sub> )	1	22.13	22.13	--	--	--	--	--
Depth to top of sample interval (feet below LSD)	4	15.00	0.00	--	--	--	--	--
Depth to bottom of sample interval (feet below LSD)	4	16.00	5.00	--	--	--	--	--
Depth below land surface, water level (feet)	2	10.60	9.87	--	--	--	--	--
Alpha, gross, dissolved ( $\mu\text{g/L}$ as U natural)	2	450.00	280.00	--	--	--	--	--
Alpha, gross radioactivity, suspended, total ( $\mu\text{g/L}$ as U natural)	2	130.00	81.00	--	--	--	--	--
Beta, gross, dissolved (pCi/L as strontium/yttrium-90)	2	120.00	59.00	--	--	--	--	--
Beta, gross, radioactivity, suspended, total (pCi/L as strontium/yttrium-90)	2	32.00	29.00	--	--	--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	6	11311.00	381.00	3415.00	4103.71	3560.00	2257.50	723.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	2	139.00	112.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463731103155101; local identifier, 136-100-05ACAA; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2907.00 feet.

Summary of water-quality data, May 24, 1984, through November 9, 1984

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	1	8.30	8.30	--	--	--	--	--
Agency collecting sample (code number)	16	1028.00	1028.00	1028.00	0.00	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	16	80020.00	1028.00	5965.00	19748.00	1028.00	1028.00	1028.00
Specific conductance (µS/cm at 25 degrees Celsius)	1	7900.00	7900.00	--	--	--	--	--
pH, water, whole, field (standard units)	1	7.10	7.10	--	--	--	--	--
pH, water, whole, laboratory (standard units)	11	8.23	3.62	7.07	1.63	8.00	7.83	7.22
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO3)	9	1170.00	260.00	726.67	266.74	860.00	800.00	600.00
Nitrogen, total (mg/L as N)	1	5.20	5.20	--	--	--	--	--
Nitrogen, organic, total (mg/L as N)	1	1.38	1.38	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as N)	1	0.52	0.52	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	1	1.90	1.90	--	--	--	--	--
Nitrogen, nitrite plus nitrate, total (mg/L as N)	1	3.30	3.30	--	--	--	--	--
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	3.20	3.20	--	--	--	--	--
Phosphorus, total (mg/L as P)	1	0.21	0.21	--	--	--	--	--
Carbon, organic, total (mg/L as C)	1	8.60	8.60	--	--	--	--	--
Hardness, total (mg/L as CaCO3)	11	1655.34	553.83	719.60	313.85	674.10	631.78	591.95
Calcium, dissolved (mg/L as Ca)	11	300.00	121.00	166.54	51.64	187.00	142.00	132.00
Magnesium, dissolved (mg/L as Mg)	11	220.00	37.00	73.73	50.46	72.00	69.00	43.00
Sodium, dissolved (mg/L as Na)	11	1500.00	14.00	210.36	431.63	175.00	89.00	32.00
Sodium adsorption ratio	11	16.05	0.24	2.74	4.52	2.83	1.56	0.57
Sodium (percent)	1	66.09	66.09	--	--	--	--	--
Potassium, dissolved (mg/L as K)	1	16.00	16.00	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	1	39.00	39.00	--	--	--	--	--
Sulfate, dissolved (mg/L as SO4)	9	4400.00	58.00	642.22	1418.39	401.00	81.00	65.00
Fluoride, dissolved (mg/L as F)	1	1.40	1.40	--	--	--	--	--
Silica, dissolved (mg/L as SiO2)	1	10.00	10.00	--	--	--	--	--
Chromium, dissolved (µg/L as Cr)	1	120.00	120.00	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	1	1300.00	1300.00	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	1	23.00	23.00	--	--	--	--	--
Molybdenum, dissolved (µg/L as Mo)	1	40.00	40.00	--	--	--	--	--
Zinc, dissolved (µg/L as Zn)	10	32.00	2.40	12.29	11.80	24.00	6.95	2.40
Uranium, natural, water, dissolved (µg/L)	1	6666.95	6666.95	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	1	6666.95	6666.95	--	--	--	--	--

Summary of water-quality data, May 24, 1984, through November 9, 1984--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Solids, dissolved (tons per acre-foot)	1	9.07	9.07	--	--	--	--	--
Nitrogen, total (mg/L as NO <sub>3</sub> )	1	23.02	23.02	--	--	--	--	--
Depth to top of sample interval (feet below LSD)	15	45.00	0.00	21.67	14.84	35.00	20.00	10.00
Depth to bottom of sample interval (feet below LSD)	15	50.00	5.00	26.67	14.84	40.00	25.00	15.00
Depth below land surface, water level (feet)	1	44.69	44.69	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than .062 mm <sup>1</sup>	5	29.96	4.59	18.00	11.97	25.78	24.02	5.63
Sediment, bed material, sieve diameter, percent finer than .125 mm <sup>1</sup>	5	66.46	10.06	36.83	22.84	47.75	41.73	18.17
Sediment, bed material, sieve diameter, percent finer than .250 mm <sup>1</sup>	5	94.24	17.71	58.48	29.99	76.76	62.65	41.04
Sediment, bed material, sieve diameter, percent finer than .500 mm <sup>1</sup>	5	98.85	25.16	83.73	32.74	98.57	98.40	97.67
Sediment, bed material, sieve diameter, percent finer than 1.00 mm <sup>1</sup>	5	99.96	33.30	86.16	29.55	99.43	99.18	98.91
Sediment, bed material, sieve diameter, percent finer than 2.00 mm <sup>1</sup>	5	99.96	43.27	88.34	25.20	99.81	99.73	98.91
Sediment, bed material, sieve diameter, percent finer than 4.00 mm <sup>1</sup>	5	100.00	60.04	91.77	17.74	100.00	99.89	98.91
Sediment, bed material, sieve diameter, percent finer than 8.00 mm <sup>1</sup>	3	100.00	88.06	--	--	--	--	--
Sediment, bed material, sieve diameter, percent finer than 16.0 mm <sup>1</sup>	2	100.00	100.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	11	13569.00	938.00	5450.82	3791.60	7610.00	4845.00	1510.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO <sub>3</sub> )	1	275.00	275.00	--	--	--	--	--

<sup>1</sup> Analysis of formation material from test hole.

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463735103160501; local identifier, 136-100-05ABCC; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2892.00 feet.

Summary of water-quality data, May 25, 1984, through November 8, 1984

Water-quality constituent	Sample size	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
		Maximum	Minimum	Mean	Standard deviation		75	Median 50	25
Water temperature (degrees Celsius)	2	11.90	9.30	--	--	--	--	--	--
Temperature, air (degrees Celsius)	1	27.00	27.00	--	--	--	--	--	--
Agency collecting sample (code number)	7	1028.00	1028.00	1028.00	0.00	1028.00	1028.00	1028.00	1028.00
Agency analyzing sample (code number)	7	80020.00	1028.00	23597.14	38544.15	80020.00	1028.00	1028.00	1028.00
Specific conductance (µS/cm at 25 degrees Celsius)	2	9700.00	5290.00	--	--	--	--	--	--
pH, water, whole, field (standard units)	2	7.00	6.90	--	--	--	--	--	--
pH, water, whole, laboratory (standard units)	6	8.32	6.81	7.60	0.65	8.14	7.62	7.10	
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO3)	4	440.00	200.00	--	--	--	--	--	--
Nitrogen, total (mg/L as N)	1	2.50	2.50	--	--	--	--	--	--
Nitrogen, organic, total (mg/L as N)	2	2.09	1.30	--	--	--	--	--	--
Nitrogen, ammonia, total (mg/L as N)	2	0.21	0.20	--	--	--	--	--	--
Nitrogen, ammonia plus organic, total (mg/L as N)	2	2.30	1.50	--	--	--	--	--	--
Nitrogen, nitrite plus nitrate, total (mg/L as N)	1	0.20	0.20	--	--	--	--	--	--
Phosphorus, total (mg/L as P)	2	0.04	0.01	--	--	--	--	--	--
Carbon, organic, total (mg/L as C)	2	24.00	20.00	--	--	--	--	--	--
Hardness, total (mg/L as CaCO3)	6	1555.44	222.85	576.00	499.26	542.57	440.72	253.69	
Calcium, dissolved (mg/L as Ca)	6	260.00	48.00	111.00	76.86	115.00	90.50	62.00	
Magnesium, dissolved (mg/L as Mg)	6	220.00	24.00	72.50	74.99	72.00	47.00	25.00	
Sodium, dissolved (mg/L as Na)	6	1800.00	39.00	527.50	748.46	1100.00	92.50	41.00	
Sodium adsorption ratio	6	20.58	0.97	7.79	9.65	19.86	2.09	1.14	
Sodium (percent)	1	71.47	71.47	--	--	--	--	--	--
Potassium, dissolved (mg/L as K)	1	6.80	6.80	--	--	--	--	--	--
Chloride, dissolved (mg/L as Cl)	2	12.00	6.70	--	--	--	--	--	--
Sulfate, dissolved (mg/L as SO4)	6	4700.00	22.00	1232.67	1915.71	2300.00	171.50	31.00	
Fluoride, dissolved (mg/L as F)	2	1.10	1.00	--	--	--	--	--	--
Silica, dissolved (mg/L as SiO2)	2	18.00	15.00	--	--	--	--	--	--
Arsenic, dissolved (µg/L as As)	1	3.00	3.00	--	--	--	--	--	--
Barium, dissolved (µg/L as Ba)	1	32.00	32.00	--	--	--	--	--	--
Beryllium, dissolved (µg/L as Be)	1	1.00	1.00	--	--	--	--	--	--
Cadmium, dissolved (µg/L as Cd)	1	1.00	1.00	--	--	--	--	--	--
Chromium, dissolved (µg/L as Cr)	1	20.00	20.00	--	--	--	--	--	--
Iron, dissolved (µg/L as Fe)	2	970.00	680.00	--	--	--	--	--	--
Manganese, dissolved (µg/L as Mn)	2	1100.00	820.00	--	--	--	--	--	--

Summary of water-quality data, May 25, 1984, through November 8, 1984--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Molybdenum, dissolved (µg/L as Mo)	1	5.00	5.00	--	--	--	--	--
Strontium, dissolved (µg/L as Sr)	1	900.00	900.00	--	--	--	--	--
Zinc, dissolved (µg/L as Zn)	2	20.00	19.00	--	--	--	--	--
Lithium, dissolved (µg/L as Li)	1	410.00	410.00	--	--	--	--	--
Beta, gross, suspended (pCi/L as Cs-137)	2	42.00	13.00	--	--	--	--	--
Radium 226, dissolved, planchet count (pCi/L)	1	0.20	0.20	--	--	--	--	--
Uranium, natural, water, dissolved (µg/L)	6	290.00	1.20	59.45	114.53	51.00	6.05	2.40
Solids, sum of constituents, dissolved (mg/L)	1	7372.89	7372.89	--	--	--	--	--
Solids, dissolved (tons per acre-foot)	1	10.03	10.03	--	--	--	--	--
Nitrogen, total (mg/L as NO3)	1	11.07	11.07	--	--	--	--	--
Depth to top of sample interval (feet below LSD)	1	15.00	0.00	--	--	--	--	--
Depth to bottom of sample interval (feet below LSD)	4	20.00	5.00	--	--	--	--	--
Depth below land surface, water level (feet)	2	8.88	5.60	--	--	--	--	--
Alpha, gross, dissolved (µg/L as U natural)	1	320.00	320.00	--	--	--	--	--
Alpha, gross radioactivity, suspended, total (µg/L as U natural)	2	3.60	2.40	--	--	--	--	--
Beta, gross, radioactivity, suspended, total (pCi/L as strontium/yttrium-90)	2	39.00	12.00	--	--	--	--	--
Specific conductance (µS/cm at 25 degrees Celsius)	6	8620.00	446.00	3763.50	3081.95	5140.00	3424.50	1526.00
Alkalinity, titration to pH 4.5, laboratory (mg/L as CaCO3)	2	589.00	509.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463745103003801; local identifier, 136-098-05AAA; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2715.00 feet.

Summary of water-quality data, September 8, 1976, through July 16, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown	
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50 25
Water temperature (degrees Celsius)	7	17.00	9.00	11.07	2.76	11.50	10.00 9.50
Temperature, air (degrees Celsius)	2	26.00	26.00	--	--	--	-- --
Agency analyzing sample (code number)	6	80020.00	80020.00	80020.00	0.00	80020.00	80020.00 80020.00
Turbidity (JCU)	1	40.00	40.00	--	--	--	-- --
Turbidity (NTU)	2	0.70	0.60	--	--	--	-- --
Color (platinum cobalt scale)	1	45.00	45.00	--	--	--	-- --
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	7	3700.00	2800.00	3435.71	289.70	3550.00	3500.00 3500.00
pH, water, whole, field (standard units)	7	8.60	8.30	8.39	0.11	8.40	8.40 8.30
pH, water, whole, laboratory (standard units)	2	8.30	8.20	--	--	--	-- --
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	8.20	8.20	--	--	--	-- --
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	860.00	720.00	819.40	58.07	860.00	837.00 820.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	1020.00	1020.00	--	--	--	-- --
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	0.00	0.00	--	--	--	-- --
Nitrogen, organic, dissolved (mg/L as N)	1	0.27	0.27	--	--	--	-- --
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.41	0.41	--	--	--	-- --
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	7	2.40	0.54	0.99	0.64	1.00	0.82 0.60
Phosphorus, dissolved (mg/L as P)	1	0.17	0.17	--	--	--	-- --
Carbon, organic, dissolved (mg/L as C)	1	4.30	4.30	--	--	--	-- --
Hardness, total (mg/L as CaCO <sub>3</sub> )	7	88.38	49.79	72.99	14.18	88.16	69.37 65.19
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	5	0.00	0.00	0.00	0.00	0.00	0.00 0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	-- --
Calcium, dissolved (mg/L as Ca)	7	21.00	5.00	14.43	5.47	19.00	14.00 11.00
Magnesium, dissolved (mg/L as Mg)	7	9.80	8.20	8.81	0.55	9.00	8.90 8.30
Sodium, dissolved (mg/L as Na)	7	850.00	800.00	818.57	19.52	830.00	820.00 800.00
Sodium adsorption ratio	7	49.67	38.16	42.40	3.97	44.97	41.99 38.55
Sodium (percent)	7	96.96	94.95	95.76	0.72	96.26	95.80 94.96
Sodium plus potassium, dissolved (mg/L as Na)	4	850.00	810.00	--	--	--	-- --
Potassium, dissolved (mg/L as K)	7	6.40	4.30	5.36	0.84	6.00	5.80 4.40
Chloride, dissolved (mg/L as Cl)	7	5.00	1.90	3.73	1.12	4.50	4.10 2.50
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	7	1100.00	970.00	1034.29	62.68	1100.00	1000.00 970.00
Fluoride, dissolved (mg/L as F)	7	1.80	1.60	1.73	0.09	1.80	1.80 1.60
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	11.00	9.80	10.53	0.59	11.00	11.00 9.90
Arsenic, dissolved ( $\mu$ g/L as As)	1	1.00	1.00	--	--	--	-- --



## Summary of water-quality data, September 8, 1976, through July 16, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Boron, dissolved ( $\mu\text{g/L}$ as B)	7	700.00	480.00	617.14	91.60	670.00	660.00	490.00
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	7	80.00	40.00	50.00	15.27	60.00	40.00	40.00
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	1	8.00	8.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	7	30.00	20.00	28.57	3.78	30.00	30.00	30.00
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	5	3.00	1.00	2.00	0.71	2.00	2.00	2.00
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	7	620.00	490.00	570.00	44.35	620.00	570.00	550.00
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	1	1.50	1.50	--	--	--	--	--
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	1	20.00	20.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	1	50.00	50.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	2410.00	2410.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	7	2515.11	2245.32	2391.02	95.22	2484.08	2388.11	2305.89
Solids, dissolved (tons per acre-foot)	7	3.42	3.05	3.24	0.12	3.28	3.28	3.14
Nitrogen, ammonia, dissolved (mg/L as $\text{NH}_4$ )	1	0.53	0.53	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	2	3.30	3.20	--	--	--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	2	3480.00	3460.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	2	830.00	820.00	--	--	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463746102562001; local identifier, 136-098-01BAA; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125SNLB.

DATUM.--Altitude of land surface datum is 2765.00 feet.

Summary of water-quality data, September 10, 1976, through July 16, 1981

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Water temperature (degrees Celsius)	7	14.00	9.00	10.97	1.56	11.50	10.80	10.00
Temperature, air (degrees Celsius)	2	29.00	29.00	--	--	--	--	--
Agency analyzing sample (code number)	6	80020.00	80020.00	80020.00	0.00	80020.00	80020.00	80020.00
Turbidity (TCU)	1	10.00	10.00	--	--	--	--	--
Turbidity (NTU)	2	2.30	0.50	--	--	--	--	--
Color (platinum cobalt scale)	1	7.00	7.00	--	--	--	--	--
Specific conductance ( $\mu$ S/cm at 25 degrees Celsius)	7	1550.00	1360.00	1458.57	55.81	1480.00	1460.00	1450.00
pH, water, whole, field (standard units)	7	8.30	7.80	8.15	0.18	8.30	8.20	8.05
pH, water, whole, laboratory (standard units)	2	8.20	7.90	--	--	--	--	--
Carbon dioxide, dissolved (mg/L as CO <sub>2</sub> )	1	4.70	4.70	--	--	--	--	--
Alkalinity, water, whole, total, fixed endpoint titration, field (mg/L as CaCO <sub>3</sub> )	5	485.00	450.00	469.00	17.46	480.00	480.00	450.00
Bicarbonate, water, whole, fixed endpoint titration, field (mg/L as HCO <sub>3</sub> )	1	591.00	591.00	--	--	--	--	--
Carbonate, water, whole, fixed endpoint titration, field (mg/L as CO <sub>3</sub> )	1	0.00	0.00	--	--	--	--	--
Nitrogen, organic, dissolved (mg/L as N)	1	0.26	0.26	--	--	--	--	--
Nitrogen, ammonia, dissolved (mg/L as N)	1	0.31	0.31	--	--	--	--	--
Nitrogen, ammonia plus organic, dissolved (mg/L as N)	7	3.10	0.32	0.97	0.96	0.98	0.59	0.44
Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	1	0.09	0.09	--	--	--	--	--
Phosphorus, dissolved (mg/L as P)	1	0.02	0.02	--	--	--	--	--
Carbon, organic, dissolved (mg/L as C)	1	23.00	23.00	--	--	--	--	--
Hardness, total (mg/L as CaCO <sub>3</sub> )	7	120.89	109.16	114.53	4.13	118.39	114.16	111.66
Noncarbonate hardness, water, whole, total, field (mg/L as CaCO <sub>3</sub> )	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Noncarbonate hardness, water, whole, total, laboratory (mg/L as CaCO <sub>3</sub> )	2	0.00	0.00	--	--	--	--	--
Calcium, dissolved (mg/L as Ca)	7	25.00	22.00	23.43	0.98	24.00	23.00	23.00
Magnesium, dissolved (mg/L as Mg)	7	14.00	13.00	13.43	0.54	14.00	13.00	13.00
Sodium, dissolved (mg/L as Na)	7	330.00	300.00	310.00	11.55	320.00	310.00	300.00
Sodium adsorption ratio	7	13.24	12.26	12.65	0.35	12.95	12.57	12.39
Sodium (percent)	7	85.14	84.35	84.63	0.34	85.07	84.43	84.37
Sodium plus potassium, dissolved (mg/L as Na)	4	340.00	310.00	--	--	--	--	--
Potassium, dissolved (mg/L as K)	7	7.50	6.00	6.83	0.64	7.40	7.00	6.00
Chloride, dissolved (mg/L as Cl)	7	2.60	1.30	2.06	0.56	2.60	2.10	1.30
Sulfate, dissolved (mg/L as SO <sub>4</sub> )	7	360.00	300.00	328.57	24.78	360.00	330.00	300.00
Fluoride, dissolved (mg/L as F)	7	0.20	0.10	0.17	0.05	0.20	0.20	0.10
Silica, dissolved (mg/L as SiO <sub>2</sub> )	7	8.80	7.80	8.40	0.47	8.80	8.70	7.90

## Summary of water-quality data, September 10, 1976, through July 16, 1981--Continued

Water-quality constituent	Descriptive statistics					Percent of samples in which values were less than or equal to those shown		
	Sample size	Maximum	Minimum	Mean	Standard deviation	75	Median 50	25
Boron, dissolved ( $\mu\text{g/L}$ as B)	7	430.00	260.00	364.29	59.40	410.00	380.00	310.00
Iron, dissolved ( $\mu\text{g/L}$ as Fe)	4	70.00	20.00	--	--	--	--	--
Lead, dissolved ( $\mu\text{g/L}$ as Pb)	1	2.00	2.00	--	--	--	--	--
Manganese, dissolved ( $\mu\text{g/L}$ as Mn)	7	70.00	50.00	61.43	6.90	70.00	60.00	60.00
Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo)	3	8.00	1.00	--	--	--	--	--
Strontium, dissolved ( $\mu\text{g/L}$ as Sr)	7	690.00	580.00	621.43	48.45	690.00	590.00	590.00
Vanadium, dissolved ( $\mu\text{g/L}$ as V)	1	0.90	0.90	--	--	--	--	--
Aluminum, dissolved ( $\mu\text{g/L}$ as Al)	1	10.00	10.00	--	--	--	--	--
Lithium, dissolved ( $\mu\text{g/L}$ as Li)	1	70.00	70.00	--	--	--	--	--
Solids, residue on evaporation at 180 degrees Celsius, dissolved (mg/L)	3	953.00	935.00	--	--	--	--	--
Solids, sum of constituents, dissolved (mg/L)	7	1035.15	923.81	973.72	43.02	1026.33	960.75	932.56
Solids, dissolved (tons per acre-foot)	7	1.41	1.26	1.31	0.06	1.40	1.27	1.27
Nitrogen, ammonia, dissolved (mg/L as $\text{NH}_4$ )	1	0.40	0.40	--	--	--	--	--
Potassium 40, dissolved (pCi/L as K40)	2	4.50	4.50	--	--	--	--	--
Specific conductance ( $\mu\text{S/cm}$ at 25 degrees Celsius)	2	1460.00	1450.00	--	--	--	--	--
Alkalinity, titration to pH 4.5, laboratory (mg/L as $\text{CaCO}_3$ )	2	460.00	460.00	--	--	--	--	--

**Table 6.** Summary of daily ground-water level data obtained from the U.S. Geological Survey

**Symbols**

--, no data

**County code**

011, Bowman County

**Geologic unit**

125      Paleocene

TRVL      Tongue River-Ludlow Members of Fort Union Formation

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460705103005301; local identifier, 130-099-01BBB;  
county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125TRVL.

DATUM.--Altitude of land surface datum is 2768.00 feet.

Summary of daily ground-water level data, in feet below land surface datum, June 1974 through December 1976

Month	Maximum	Minimum
October	25.63	24.20
November	25.53	24.14
December	25.44	24.06
January	25.24	23.47
February	25.47	23.38
March	25.48	23.56
April	25.10	22.36
May	24.61	22.81
June	25.06	23.42
July	25.68	23.00
August	26.09	24.11
September	26.23	24.33

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461355103055701; local identifier, 131-099-19DDD;  
county code, 011.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TRVL.

DATUM.--Altitude of land surface datum is 2775.00 feet.

Summary of daily ground-water level data, in feet below land surface datum, June 1974 through December 1976

Month	Maximum	Minimum
October	24.89	23.54
November	26.33	23.66
December	24.30	23.59
January	24.16	24.03
February	24.23	24.12
March	24.28	24.04
April	23.69	--
May	23.48	23.22
June	23.33	19.91
July	23.32	20.00
August	23.56	20.28
September	23.69	20.40

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461355103032801; local identifier, 131-099-21DDD;  
county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of daily ground-water level data, in feet below land surface datum, November 1974 through November 1976

Month	Maximum	Minimum
October	47.25	45.67
November	47.31	35.46
December	46.86	35.46
January	35.62	35.46
February	47.80	35.54
March	48.05	36.92
April	48.62	37.13
May	48.89	37.07
June	48.45	38.50
July	47.63	39.50
August	51.01	42.93
September	51.01	45.52

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461257103004902; local identifier, 131-099-36BBB2; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is 2822.00 feet.

Summary of daily ground-water level data, in feet below land surface datum, June 1974 through December 1976

Month	Maximum	Minimum
October	66.06	64.69
November	65.80	64.09
December	66.03	64.40
January	64.69	64.37
February	64.83	64.36
March	64.75	64.23
April	64.92	63.58
May	65.19	61.99
June	65.26	61.21
July	64.79	61.74
August	65.10	62.51
September	66.06	56.97

**Table 7.** Summary of periodic ground-water level data obtained from the U.S. Geological Survey

**Symbols**

--, no data

**County code**

001, Adams County  
011, Bowman County  
037, Grant County  
041, Hettinger County  
059, Morton County  
085, Sioux County  
087, Slope County

**Geologic unit**

112      Pleistocene  
125      Paleocene  
211      Upper Cretaceous

BGFV      Buried glaciofluvial deposits  
EMCK      Elm Creek aquifer  
FXHL      Fox Hills Sandstone  
HLCK      Hell Creek Formation  
HRMN      Harmon lignite aquifer  
LDLW      Ludlow Member of Fort Union Formation  
LHCK      Ludlow Member of Fort Union Formation-Hell Creek Formation  
SNLB      Sentinel Butte Member of Fort Union Formation  
TGRV      Tongue River Member of Fort Union Formation  
TRVL      Tongue River-Ludlow Members of Fort Union Formation

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460047101333801; local identifier, 129-087-10BBC;  
county code, 037.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 2060.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1972 through July 1989

Month	Sample size	Maximum	Minimum
October	2	107.71	107.55
November	6	107.70	107.00
December	11	107.52	105.54
January	--	--	--
February	1	107.43	107.43
March	--	--	--
April	1	107.45	107.45
May	1	107.45	107.45
June	1	107.68	107.68
July	3	107.67	107.42
August	2	107.78	107.01
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460056102061001; local identifier, 129-091-07AAA1;  
county code, 001.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125LHCK.

DATUM.--Altitude of land surface datum is 2422.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1971 through December 1993

Month	Sample size	Maximum	Minimum
October	1	150.00	150.00
November	12	151.22	149.90
December	11	150.95	149.43
January	1	150.21	150.21
February	2	150.30	150.02
March	2	150.32	150.32
April	2	150.25	149.75
May	2	150.05	148.72
June	2	149.87	149.70
July	2	150.91	150.05
August	2	150.01	149.99
September	4	150.47	149.96

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460056102061002; local identifier, 129-091-07AAA2;  
county code, 001.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125LDLW.

DATUM.--Altitude of land surface datum is 2422.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1971 through December 1993

Month	Sample size	Maximum	Minimum
October	1	93.62	93.62
November	11	93.65	89.16
December	11	94.34	89.29
January	1	93.61	93.61
February	2	94.22	93.40
March	2	93.85	93.55
April	2	93.80	93.48
May	2	93.63	93.45
June	2	93.64	93.15
July	2	94.08	93.50
August	2	94.09	93.62
September	4	94.06	89.74



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460239101135301; local identifier, 130-084-31AAA1; county code, 085.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--211HLCK.

DATUM.--Altitude of land surface datum is 2238.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1973 through November 1981

Month	Sample size	Maximum	Minimum
October	2	311.00	171.76
November	5	311.94	185.23
December	10	312.30	172.22
January	--	--	--
February	1	174.27	174.27
March	--	--	--
April	--	--	--
May	--	--	--
June	1	173.89	173.89
July	2	178.35	177.24
August	2	176.42	175.18
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460239101135302; local identifier, 130-084-31AAA2; county code, 085.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--211HLCK.

DATUM.--Altitude of land surface datum is 2238.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1973 through November 1989

Month	Sample size	Maximum	Minimum
October	2	165.56	164.35
November	6	165.34	162.89
December	10	165.60	163.52
January	--	--	--
February	1	165.60	165.60
March	--	--	--
April	--	--	--
May	--	--	--
June	1	165.37	165.37
July	3	165.72	163.26
August	2	166.55	165.73
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460240101075501; local identifier, 130-084-36ABA; county code, 085.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 2148.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1972 through November 1989

Month	Sample size	Maximum	Minimum
October	2	240.58	240.50
November	6	248.00	211.59
December	11	248.50	239.58
January	--	--	--
February	1	240.67	240.67
March	--	--	--
April	1	240.60	240.60
May	--	--	--
June	1	240.75	240.75
July	1	241.20	241.20
August	2	240.97	240.22
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460449101200701; local identifier, 130-085-17DAA1; county code, 085.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 1910.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, October 1972 through December 1993

Month	Sample size	Maximum	Minimum
October	3	22.16	21.40
November	6	22.43	21.20
December	16	22.25	21.11
January	3	22.34	21.20
February	6	22.46	21.31
March	3	21.44	21.19
April	3	22.03	21.70
May	7	22.63	21.38
June	1	22.19	22.19
July	5	22.29	21.68
August	7	22.70	21.26
September	2	21.46	20.90

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460244101272701; local identifier, 130-086-28CCC1; county code, 085.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 2062.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1973 through December 1993

Month	Sample size	Maximum	Minimum
October	2	139.89	139.44
November	7	140.11	139.35
December	14	140.10	139.07
January	--	--	--
February	1	139.75	139.75
March	--	--	--
April	--	--	--
May	--	--	--
June	1	139.84	139.84
July	3	140.10	139.37
August	2	140.13	139.40
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460244101272702; local identifier, 130-086-28CCC2; county code, 085.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--211HLCK.

DATUM.--Altitude of land surface datum is 2062.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1973 through December 1993

Month	Sample size	Maximum	Minimum
October	2	136.05	135.72
November	7	136.70	135.63
December	14	136.29	134.78
January	--	--	--
February	1	135.92	135.92
March	--	--	--
April	--	--	--
May	--	--	--
June	1	136.05	136.05
July	2	136.19	136.12
August	2	136.30	136.00
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460159101500401; local identifier, 130-089-32DDA;  
county code, 037.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 2165.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, December 1972 through December 1981

Month	Sample size	Maximum	Minimum
October	1	55.95	55.95
November	3	56.82	56.21
December	7	57.13	55.70
January	--	--	--
February	2	57.02	55.66
March	6	56.72	56.07
April	1	55.49	55.49
May	--	--	--
June	7	57.08	55.63
July	3	56.97	55.70
August	3	57.31	55.56
September	6	57.18	56.20

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460705103005301; local identifier, 130-099-01BBB;  
county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125TRVL.

DATUM.--Altitude of land surface datum is 2768.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, October 1974 through July 1991

Month	Sample size	Maximum	Minimum
October	2	25.60	25.53
November	6	25.50	24.25
December	3	25.39	23.97
January	2	25.10	23.97
February	2	25.29	23.45
March	2	25.43	23.68
April	2	23.88	23.46
May	1	23.93	23.93
June	2	24.15	23.51
July	4	28.18	23.61
August	4	27.86	24.25
September	4	25.96	24.45

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460845101512001; local identifier, 131-089-30AAA;  
county code, 037.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 2395.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1973 through December 1992

Month	Sample size	Maximum	Minimum
October	2	322.58	321.90
November	10	323.44	321.81
December	10	323.36	321.14
January	--	--	--
February	1	321.62	321.62
March	--	--	--
April	--	--	--
May	--	--	--
June	1	321.86	321.86
July	3	323.34	320.17
August	2	322.05	321.83
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461130102122601; local identifier, 131-092-05DDD;  
county code, 001.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of periodic ground-water level data, in feet below land surface datum, October 1976 through December 1993

Month	Sample size	Maximum	Minimum
October	1	72.45	72.45
November	10	73.23	70.97
December	5	73.29	70.86
January	1	72.25	72.25
February	--	--	--
March	1	72.26	72.26
April	1	72.26	72.26
May	1	72.37	72.37
June	2	71.74	71.50
July	--	--	--
August	1	71.62	71.62
September	1	71.28	71.28

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460908102282702; local identifier, 131-094-20CBC2;  
county code, 001.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125LHCK.

DATUM.--Altitude of land surface datum is 2500.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1971 through December 1993

Month	Sample size	Maximum	Minimum
October	1	85.31	85.31
November	13	85.90	84.84
December	10	85.53	85.11
January	1	85.41	85.41
February	2	85.50	85.35
March	2	85.70	85.44
April	1	85.38	85.38
May	2	85.30	85.10
June	2	85.19	85.18
July	2	85.97	85.45
August	2	85.47	85.42
September	4	85.62	85.29

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460908102282703; local identifier, 131-094-20CBC3;  
county code, 001.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125LDLW.

DATUM.--Altitude of land surface datum is 2500.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1971 through December 1993

Month	Sample size	Maximum	Minimum
October	1	63.90	63.90
November	13	69.50	62.29
December	10	69.49	61.92
January	1	65.84	65.84
February	2	63.93	63.89
March	2	64.09	64.01
April	1	64.05	64.05
May	2	64.04	63.65
June	2	63.86	63.77
July	2	64.23	63.90
August	2	64.30	64.04
September	4	66.80	62.08

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461355103055701; local identifier, 131-099-19DDD;  
county code, 011.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TRVL.

DATUM.--Altitude of land surface datum is 2775.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, March 1974 through July 1990

Month	Sample size	Maximum	Minimum
October	1	23.60	23.60
November	4	24.05	20.42
December	3	24.04	23.47
January	2	24.15	24.01
February	2	24.14	19.65
March	2	24.23	23.58
April	1	20.05	20.05
May	3	25.85	20.60
June	2	23.24	20.01
July	4	25.59	20.05
August	4	26.35	20.30
September	4	22.42	10.90

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461355103032801; local identifier, 131-099-21DDD;  
county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is not available.

Summary of periodic ground-water level data, in feet below land surface datum, March 1974 through December 1976

Month	Sample size	Maximum	Minimum
October	2	45.77	34.81
November	4	46.74	35.46
December	3	46.45	35.55
January	2	47.12	35.46
February	2	47.63	35.65
March	2	47.89	37.28
April	1	48.18	48.18
May	2	48.72	37.05
June	2	48.45	38.72
July	2	46.92	40.91
August	2	45.67	43.37
September	2	43.73	43.16

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 460830103044504; local identifier, 131-099-29ADD4;  
county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125HRMN.

DATUM.--Altitude of land surface datum is 2796.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1987 through August 1991

Month	Sample size	Maximum	Minimum
October	--	--	--
November	--	--	--
December	--	--	--
January	--	--	--
February	--	--	--
March	--	--	--
April	--	--	--
May	--	--	--
June	--	--	--
July	--	--	--
August	3	61.51	58.28
September	2	58.79	55.32

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461257103004902; local identifier, 131-099-36BBB2; county code, 011.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--Not available.

DATUM.--Altitude of land surface datum is 2822.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, October 1974 through December 1976

Month	Sample size	Maximum	Minimum
October	2	65.47	64.90
November	3	65.78	64.09
December	3	66.04	64.00
January	2	64.68	64.47
February	2	64.80	64.41
March	2	64.63	64.42
April	2	64.84	63.61
May	1	64.94	64.94
June	2	65.16	61.95
July	2	64.46	61.98
August	2	64.63	62.70
September	3	65.25	63.11

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461344101072901; local identifier, 132-083-30BCB; county code, 037.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--112BGFV.

DATUM.--Altitude of land surface datum is 1814.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1971 through December 1993

Month	Sample size	Maximum	Minimum
October	2	25.81	25.31
November	8	26.20	25.10
December	16	26.45	24.65
January	1	25.63	25.63
February	3	25.68	25.20
March	1	25.52	25.52
April	2	25.43	25.06
May	1	25.10	25.10
June	3	25.87	24.89
July	3	25.80	25.28
August	4	25.95	25.31
September	1	25.40	25.40

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461345101323801; local identifier, 132-087-27ADA; county code, 037.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--211HLCK.

DATUM.--Altitude of land surface datum is 2010.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1972 through December 1993

Month	Sample size	Maximum	Minimum
October	2	12.32	10.97
November	8	12.65	11.00
December	15	12.73	10.54
January	--	--	--
February	1	10.81	10.81
March	--	--	--
April	1	10.36	10.36
May	1	10.29	10.29
June	1	11.07	11.07
July	2	12.53	10.74
August	3	11.28	10.71
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461542101535902; local identifier, 132-090-14AAB2; county code; 037.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2340.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1973 through December 1993

Month	Sample size	Maximum	Minimum
October	2	13.39	12.34
November	10	14.95	12.07
December	10	14.95	11.76
January	--	--	--
February	1	13.73	13.73
March	--	--	--
April	--	--	--
May	--	--	--
June	1	13.50	13.50
July	2	13.75	12.89
August	3	14.02	12.98
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461315102034501; local identifier, 132-091-28DDD; county code, 041.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 2469.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1968 through December 1993

Month	Sample size	Maximum	Minimum
October	2	289.90	289.70
November	14	291.62	289.47
December	14	295.54	289.40
January	1	289.73	289.73
February	1	290.30	290.30
March	1	289.34	289.34
April	2	289.96	289.49
May	1	290.11	290.11
June	2	289.89	289.50
July	1	289.46	289.46
August	1	289.72	289.72
September	3	290.46	289.93

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461348102121901; local identifier, 132-092-28BCB; county code, 041.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2455.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, April 1977 through June 1981

Month	Sample size	Maximum	Minimum
October	--	--	--
November	--	--	--
December	--	--	--
January	--	--	--
February	--	--	--
March	--	--	--
April	1	-0.92	-0.92
May	1	-0.89	-0.89
June	1	-1.49	-1.49
July	1	-1.89	-1.89
August	--	--	--
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461452102194601; local identifier, 132-093-21BBB;  
county code, 041.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2510.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1976 through October 1981

Month	Sample size	Maximum	Minimum
October	--	--	--
November	2	14.33	12.96
December	1	14.14	14.14
January	1	14.70	14.70
February	--	--	--
March	1	14.88	14.88
April	1	13.79	13.79
May	1	13.80	13.80
June	2	13.89	12.79
July	--	--	--
August	1	12.57	12.57
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461614102515202; local identifier, 132-097-07CAB2;  
county code, 001.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125LHCK.

DATUM.--Altitude of land surface datum is 2665.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, August 1971 through December 1993

Month	Sample size	Maximum	Minimum
October	1	86.23	86.23
November	13	87.05	86.42
December	10	87.25	85.39
January	2	86.64	86.61
February	2	86.87	86.59
March	2	86.99	86.80
April	2	86.95	85.70
May	2	86.80	86.70
June	2	86.85	86.68
July	2	86.84	86.18
August	3	87.23	85.99
September	3	87.04	86.89

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461614102515203; local identifier, 132-097-07CAB3;  
county code, 001.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125LDLW.

DATUM.--Altitude of land surface datum is 2665.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, August 1971 through December 1993

Month	Sample size	Maximum	Minimum
October	1	15.55	15.55
November	13	15.48	13.52
December	10	15.74	13.11
January	2	15.82	15.49
February	2	15.88	15.31
March	2	15.55	15.42
April	2	15.65	15.20
May	2	15.33	15.31
June	2	15.42	15.11
July	2	15.54	15.50
August	3	15.83	15.44
September	3	15.57	13.70



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 46204310110210; local identifier, 133-083-07CCB1;  
county code, 037.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--112BGFV.

DATUM.--Altitude of land surface datum is 1885.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1971 through December 1993

Month	Sample size	Maximum	Minimum
October	2	25.71	25.39
November	9	26.79	24.90
December	16	26.55	24.12
January	1	26.10	26.10
February	3	26.20	25.03
March	1	25.84	25.84
April	2	25.43	24.79
May	1	24.80	24.80
June	3	25.52	24.51
July	3	25.30	24.78
August	3	26.20	24.83
September	1	25.09	25.09

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462005101080001; local identifier, 133-083-17DAA;  
county code, 037.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--112BGFV.

DATUM.--Altitude of land surface datum is 1842.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, January 1971 through December 1993

Month	Sample size	Maximum	Minimum
October	2	28.75	27.52
November	8	28.85	27.84
December	15	28.71	27.41
January	2	28.71	28.71
February	3	28.69	28.60
March	1	28.83	28.83
April	2	28.71	28.52
May	1	28.43	28.43
June	3	28.65	27.75
July	3	28.84	28.65
August	4	28.97	28.58
September	1	28.75	28.75

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462103101180301; local identifier, 133-085-12AAD;  
county code, 037.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 2020.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, October 1972 through December 1993

Month	Sample size	Maximum	Minimum
October	3	183.00	180.13
November	5	180.54	178.20
December	16	182.50	178.82
January	--	--	--
February	2	180.30	180.05
March	--	--	--
April	1	180.10	180.10
May	--	--	--
June	1	180.12	180.12
July	4	180.18	179.55
August	2	180.43	180.34
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462139101514301; local identifier, 133-089-04DAD;  
county code, 037.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--211HLCK.

DATUM.--Altitude of land surface datum is 2120.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1972 through November 1982

Month	Sample size	Maximum	Minimum
October	1	130.46	130.46
November	4	139.57	129.48
December	6	137.07	129.50
January	--	--	--
February	1	131.24	131.24
March	--	--	--
April	1	129.52	129.52
May	1	129.64	129.64
June	3	134.90	129.76
July	--	--	--
August	3	132.85	129.99
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461755102163001; local identifier, 133-092-29CCC1;  
county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2572.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1976 through June 1981

Month	Sample size	Maximum	Minimum
October	--	--	--
November	2	105.35	104.04
December	1	104.09	104.09
January	1	106.09	106.09
February	--	--	--
March	1	105.39	105.39
April	1	105.26	105.26
May	1	105.33	105.33
June	1	104.30	104.30
July	2	104.10	103.36
August	--	--	--
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 461747102513401; local identifier, 133-097-34BBB;  
county code, 041.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125LDLW.

DATUM.--Altitude of land surface datum is 2733.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, December 1967 through November 1993

Month	Sample size	Maximum	Minimum
October	3	158.82	157.74
November	17	159.93	157.30
December	13	159.40	157.14
January	3	158.55	157.77
February	4	158.80	157.60
March	3	158.57	157.56
April	6	159.65	157.59
May	3	161.00	157.70
June	3	158.50	157.59
July	3	160.75	157.81
August	4	158.49	157.82
September	3	158.06	157.78

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462747100564701; local identifier, 134-082-35DAA;  
county code, 059.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--112EMCK.

DATUM.--Altitude of land surface datum is 1697.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1973 through December 1993

Month	Sample size	Maximum	Minimum
October	1	4.76	4.76
November	8	5.00	4.12
December	14	5.23	3.93
January	--	--	--
February	1	4.45	4.45
March	1	3.84	3.84
April	--	--	--
May	2	3.93	3.43
June	1	4.81	4.81
July	1	4.15	4.15
August	2	4.53	4.15
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462222100562701; local identifier, 134-082-36DCD;  
county code, 085.

HYDROLOGIC UNIT.--10130206.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 1711.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1971 through December 1993

Month	Sample size	Maximum	Minimum
October	3	35.80	33.46
November	10	35.20	33.38
December	15	35.49	34.23
January	1	34.20	34.20
February	7	34.64	33.59
March	3	34.78	33.31
April	2	33.49	33.42
May	6	34.82	32.98
June	5	35.39	33.11
July	3	34.30	33.55
August	8	34.86	33.85
September	5	34.96	33.50

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462216102090801; local identifier, 134-091-32CCC;  
county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2378.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1967 through November 1993

Month	Sample size	Maximum	Minimum
October	6	46.50	42.96
November	17	53.00	43.07
December	13	50.78	43.05
January	3	43.39	42.47
February	4	43.47	40.64
March	3	43.35	42.68
April	5	43.56	42.57
May	3	43.00	42.73
June	5	48.50	42.75
July	3	43.26	42.82
August	3	43.32	42.88
September	2	50.77	43.92

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462218102130301; local identifier, 134-092-34DDC; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2434.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1968 through November 1993

Month	Sample size	Maximum	Minimum
October	3	100.14	99.64
November	17	100.47	87.85
December	12	100.40	88.66
January	2	99.83	99.41
February	3	100.17	99.59
March	2	99.85	99.30
April	4	100.32	99.51
May	2	100.17	99.85
June	4	100.41	91.26
July	2	100.13	99.66
August	2	101.38	99.53
September	2	99.22	89.30

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462429102191001; local identifier, 134-093-23ADD; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2510.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, June 1969 through November 1993

Month	Sample size	Maximum	Minimum
October	3	129.80	129.26
November	16	129.78	126.52
December	11	129.80	126.79
January	2	129.61	129.29
February	2	129.72	129.26
March	2	129.69	129.21
April	2	129.65	129.33
May	1	129.36	129.36
June	3	130.00	129.46
July	2	129.56	129.55
August	2	129.63	129.53
September	2	129.09	127.11

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462632102462301; local identifier, 134-096-08BAB; county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2575.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, October 1976 through June 1981

Month	Sample size	Maximum	Minimum
October	1	44.91	44.91
November	2	44.69	44.68
December	1	44.70	44.70
January	1	44.80	44.80
February	--	--	--
March	1	44.64	44.64
April	1	44.67	44.67
May	1	44.70	44.70
June	1	44.89	44.89
July	1	45.15	45.15
August	--	--	--
September	1	44.61	44.61

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462351103071801; local identifier, 134-099-21DCC;  
county code, 087.

HYDROLOGIC UNIT.--10130205.

GEOLOGIC UNIT.--125TRVL.

DATUM.--Altitude of land surface datum is 2885.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, January 1977 through December 1993

Month	Sample size	Maximum	Minimum
October	--	--	--
November	10	156.67	155.78
December	7	156.56	155.75
January	1	158.20	158.20
February	1	158.12	158.12
March	--	--	--
April	1	156.91	156.91
May	--	--	--
June	--	--	--
July	--	--	--
August	1	158.02	158.02
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463143102444101; local identifier, 135-096-09ABA;  
county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2570.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, October 1976 through June 1981

Month	Sample size	Maximum	Minimum
October	1	58.54	58.54
November	2	58.53	57.94
December	1	58.23	58.23
January	1	59.30	59.30
February	--	--	--
March	1	58.65	58.65
April	1	58.60	58.60
May	1	58.49	58.49
June	1	58.52	58.52
July	1	58.19	58.19
August	--	--	--
September	1	57.86	57.86

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462906102465201; local identifier, 135-096-30AAA;  
county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2550.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1976 through June 1981

Month	Sample size	Maximum	Minimum
October	1	21.07	21.07
November	2	21.12	20.82
December	1	21.85	21.85
January	1	21.44	21.44
February	--	--	--
March	1	21.55	21.55
April	1	21.58	21.58
May	1	21.70	21.70
June	1	22.41	22.41
July	1	21.80	21.80
August	--	--	--
September	1	20.35	20.35

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463153102521001; local identifier, 135-097-04DCA;  
county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--211FXHL.

DATUM.--Altitude of land surface datum is 2567.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1968 through November 1993

Month	Sample size	Maximum	Minimum
October	5	143.58	142.79
November	15	144.83	142.67
December	10	143.24	142.51
January	4	143.45	142.56
February	6	144.37	142.76
March	18	144.50	142.49
April	5	143.44	142.81
May	8	144.45	142.49
June	18	144.86	142.39
July	4	143.26	142.80
August	9	144.86	142.73
September	19	144.60	142.76

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463050102492201; local identifier, 135-097-14AAA;  
county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.-- 125TGRV.

DATUM.--Altitude of land surface datum is not available.

Summary of periodic ground-water level data, in feet below land surface datum, October 1976 through June 1981

Month	Sample size	Maximum	Minimum
October	1	27.57	27.57
November	2	27.57	27.36
December	1	28.02	28.02
January	1	27.65	27.65
February	--	--	--
March	1	27.53	27.53
April	1	27.72	27.72
May	--	--	--
June	1	28.39	28.39
July	1	27.94	27.94
August	--	--	--
September	--	--	--

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 462729102520101; local identifier, 135-097-33DDC;  
county code, 041.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2685.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, October 1976 through October 1981

Month	Sample size	Maximum	Minimum
October	1	62.79	62.79
November	2	63.99	63.40
December	1	69.28	69.28
January	1	64.72	64.72
February	--	--	--
March	1	65.69	65.69
April	1	66.25	66.25
May	1	65.81	65.81
June	2	70.09	67.79
July	--	--	--
August	--	--	--
September	1	62.45	62.45

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463746102562001; local identifier, 136-098-01BAA;  
county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125SNLB.

DATUM.--Altitude of land surface datum is 2765.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1976 through July 1981

Month	Sample size	Maximum	Minimum
October	--	--	--
November	2	133.03	132.35
December	1	131.32	131.32
January	--	--	--
February	--	--	--
March	--	--	--
April	1	132.94	132.94
May	1	132.69	132.69
June	1	131.72	131.72
July	1	131.47	131.47
August	1	132.44	132.44
September	1	132.95	132.95

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463745103003801; local identifier, 136-098-05AAA;  
county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2715.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1976 through July 1981

Month	Sample size	Maximum	Minimum
October	--	--	--
November	2	119.42	118.65
December	1	117.14	117.14
January	1	119.34	119.34
February	--	--	--
March	1	119.14	119.14
April	1	119.21	119.21
May	1	119.17	119.17
June	1	117.94	117.94
July	2	119.07	117.02
August	--	--	--
September	1	119.37	119.37

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463559102581001; local identifier, 136-098-15AAA;  
county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2670.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1976 through July 1981

Month	Sample size	Maximum	Minimum
October	--	--	--
November	2	76.05	75.84
December	1	73.99	73.99
January	1	77.05	77.05
February	--	--	--
March	1	76.03	76.03
April	1	75.71	75.71
May	1	75.90	75.90
June	1	74.58	74.58
July	1	71.81	71.81
August	1	75.87	75.87
September	1	74.70	74.70

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463538103053501; local identifier, 136-099-15ADD; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125SNLB.

DATUM.--Altitude of land surface datum is 2700.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1976 through July 1981

Month	Sample size	Maximum	Minimum
October	--	--	--
November	2	37.93	37.47
December	1	37.92	37.92
January	--	--	--
February	--	--	--
March	--	--	--
April	1	36.97	36.97
May	1	38.06	38.06
June	1	38.40	38.40
July	2	38.87	37.84
August	--	--	--
September	1	38.78	38.78

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463417103080401; local identifier, 136-099-20DDD; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2700.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1976 through July 1981

Month	Sample size	Maximum	Minimum
October	--	--	--
November	2	41.44	41.18
December	1	41.45	41.45
January	--	--	--
February	--	--	--
March	1	41.04	41.04
April	1	40.98	40.98
May	1	41.03	41.03
June	2	41.57	41.17
July	1	41.48	41.48
August	--	--	--
September	1	42.47	42.47

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463257103102301; local identifier, 136-099-31BCC; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2760.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1976 through July 1981

Month	Sample size	Maximum	Minimum
October	--	--	--
November	2	45.25	45.19
December	1	46.29	46.29
January	1	45.28	45.28
February	--	--	--
March	1	45.26	45.26
April	1	45.38	45.38
May	1	45.49	45.49
June	1	45.93	45.93
July	2	47.05	44.86
August	--	--	--
September	1	45.04	45.04



SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463231103041101; local identifier, 136-099-36CCC;  
county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2705.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, September 1976 through July 1981

Month	Sample size	Maximum	Minimum
October	--	--	--
November	2	55.90	55.84
December	1	53.98	53.98
January	--	--	--
February	--	--	--
March	--	--	--
April	1	55.80	55.80
May	1	55.64	55.64
June	1	55.73	55.73
July	2	55.81	53.68
August	--	--	--
September	1	55.80	55.80

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463735103160501; local identifier, 136-100-05ABCC;  
county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2892.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, August 1984 through June 1988

Month	Sample size	Maximum	Minimum
October	4	9.21	8.46
November	4	9.29	8.29
December	2	9.05	8.33
January	2	9.59	8.56
February	1	8.66	8.66
March	3	9.55	8.53
April	3	8.96	8.18
May	3	8.91	8.02
June	4	9.12	8.17
July	3	8.95	8.25
August	4	8.55	7.90
September	3	9.16	8.34

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463731103155101; local identifier, 136-100-05ACAA;  
county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2907.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, August 1984 through June 1988

Month	Sample size	Maximum	Minimum
October	4	44.76	33.01
November	4	44.80	32.19
December	2	44.31	31.67
January	2	44.59	44.16
February	1	44.22	44.22
March	3	44.77	31.28
April	3	44.50	44.17
May	3	45.03	44.25
June	4	44.59	31.47
July	3	44.92	43.91
August	4	44.76	39.02
September	3	44.47	35.25

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463728103160501; local identifier, 136-100-05ACBC; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2906.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1984 through June 1988

Month	Sample size	Maximum	Minimum
October	4	10.46	9.74
November	4	10.52	9.87
December	2	10.59	10.43
January	2	10.47	10.34
February	1	10.51	10.51
March	3	10.74	10.48
April	3	10.46	10.02
May	3	10.31	10.01
June	4	10.66	9.86
July	4	10.33	10.04
August	3	10.31	10.02
September	3	10.36	9.95

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463725103155601; local identifier, 136-100-05ACDB1; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2936.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, October 1984 through June 1988

Month	Sample size	Maximum	Minimum
October	4	72.28	70.21
November	4	72.25	70.19
December	2	70.73	70.25
January	2	70.26	70.24
February	1	70.08	70.08
March	3	70.93	70.31
April	3	71.46	70.36
May	3	71.59	70.32
June	4	71.74	70.42
July	3	72.04	70.29
August	3	71.64	70.37
September	3	70.60	70.24

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463725103155602; local identifier, 136-100-05ACDB2; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2936.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1984 through June 1988

Month	Sample size	Maximum	Minimum
October	4	61.55	60.17
November	4	61.22	60.26
December	2	60.76	60.61
January	2	60.65	60.25
February	1	60.68	60.68
March	3	60.73	60.39
April	3	60.71	60.20
May	3	60.73	60.05
June	4	60.73	59.98
July	4	69.43	60.12
August	3	60.69	59.07
September	3	60.73	60.20

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463721103155101; local identifier, 136-100-05ACDD1; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2891.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1984 through June 1988

Month	Sample size	Maximum	Minimum
October	4	21.66	20.13
November	4	21.38	20.09
December	2	20.23	20.05
January	2	20.28	20.15
February	1	20.11	20.11
March	3	20.28	19.92
April	3	20.31	20.12
May	3	20.33	20.24
June	4	20.45	20.20
July	4	27.73	20.33
August	3	20.64	20.12
September	3	20.56	20.10

SITE IDENTIFIERS AND COUNTY CODE.--Site number, 463718103161001; local identifier, 136-100-05CAAA; county code, 087.

HYDROLOGIC UNIT.--10130204.

GEOLOGIC UNIT.--125TGRV.

DATUM.--Altitude of land surface datum is 2901.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1984 through June 1988

Month	Sample size	Maximum	Minimum
October	4	26.71	25.58
November	4	26.56	26.28
December	2	26.53	26.49
January	2	26.34	26.33
February	1	26.38	26.38
March	3	26.84	26.40
April	3	26.36	26.29
May	3	27.05	26.51
June	4	26.69	26.40
July	4	27.84	26.26
August	3	26.79	26.37
September	3	26.40	25.98

**Table 8.** Summary of periodic ground-water level data obtained from the North Dakota State Water Commission  
[Latitude and longitude are shown in decimal degrees as obtained from the North Dakota State Water Commission]

LOCAL IDENTIFIER.--134-083-05DCC.

LOCATION.--Lat. 46.44465, long. -101.14099.

DATUM.--Altitude of land surface datum is 1835.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1990 through December 1994

Month	Sample size	Maximum	Minimum
April	2	0.58	0.42
May	2	0.66	0.44
June	2	0.78	0.48
July	2	0.72	0.43
August	4	1.03	0.13
September	3	0.99	0.90
October	4	1.03	0.63
November	2	9.97	0.77
December	3	0.93	0.68

LOCAL IDENTIFIER.--134-083-17CCC.

LOCATION.--Lat. 46.41570, long. -101.15139.

DATUM.--Altitude of land surface datum is 1825.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1990 through December 1994

Month	Sample size	Maximum	Minimum
April	2	5.26	4.57
May	2	5.23	4.51
June	2	5.21	4.45
July	2	5.11	5.00
August	4	5.32	4.75
September	3	5.26	4.74
October	4	5.38	4.43
November	2	5.33	4.49
December	3	5.26	4.40

LOCAL IDENTIFIER.--134-083-17DDB1.

LOCATION.--Lat. 46.41748, long. -101.13564.

DATUM.--Altitude of land surface datum is 1825.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1990 through December 1994

Month	Sample size	Maximum	Minimum
April	2	3.77	3.18
May	2	3.73	3.14
June	2	3.80	3.15
July	2	3.70	3.68
August	4	4.00	3.18
September	3	4.10	3.49
October	4	4.15	3.44
November	2	4.02	3.38
December	3	3.96	3.33

LOCAL IDENTIFIER.--134-083-17DDB2.

LOCATION.--Lat. 46.41748, long. -101.13564.

DATUM.--Altitude of land surface datum is 1825.00 feet

Summary of periodic ground-water level data, in feet below land surface datum, September 1992 through December 1994

Month	Sample size	Maximum	Minimum
April	2	12.06	11.49
May	2	12.42	11.99
June	2	12.54	12.00
July	1	12.24	12.24
August	3	12.40	9.68
September	3	13.15	12.59
October	4	13.10	12.32
November	2	12.99	12.40
December	3	12.88	12.48

LOCAL IDENTIFIER.--134-083-26BBA.

LOCATION.--Lat. 46.39953, long. -101.08588.

DATUM.--Altitude of land surface datum is 1785.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 1990 through December 1994

Month	Sample size	Maximum	Minimum
April	2	9.19	9.06
May	2	9.70	9.55
June	2	10.02	9.69
July	2	10.01	9.59
August	4	10.57	8.50
September	3	10.46	10.32
October	4	10.60	9.93
November	2	10.51	10.15
December	3	10.45	10.05

LOCAL IDENTIFIER.--134-084-11DDD.

LOCATION.--Lat. 46.43019, long. -101.19543.

DATUM.--Altitude of land surface datum is 1869.00 feet.

Summary of periodic ground-water level data, in feet below land surface datum, August 1992 through June 1993

Month	Sample size	Maximum	Minimum
April	1	16.17	16.17
May	1	15.82	15.82
June	1	16.09	16.09
August	1	16.97	16.97
September	1	16.94	16.94
October	1	17.12	17.12
November	1	17.18	17.18
December	1	17.18	17.18

LOCAL IDENTIFIER.--135-084-04DCC.

LOCATION.--Lat. 46.53168, long. -101.24545.

DATUM.--Altitude of land surface datum is 1874.90 feet.

Summary of periodic ground-water level data, in feet below land surface datum, August 1992 through December 1994

Month	Sample size	Maximum	Minimum
April	2	41.23	39.98
May	2	41.17	39.85
June	2	41.22	39.87
July	1	41.22	41.22
August	4	41.43	40.48
September	3	41.58	40.59
October	4	41.59	40.22
November	2	41.56	40.17
December	3	41.51	40.14

LOCAL IDENTIFIER.--135-084-16ABA.

LOCATION.--Lat. 46.51534, long. -101.24290.

DATUM.--Altitude of land surface datum is 1898.70 feet.

Summary of periodic ground-water level data, in feet below land surface datum, August 1992 through December 1994

Month	Sample size	Maximum	Minimum
April	2	56.80	55.89
May	2	56.74	55.69
June	2	56.79	55.72
July	1	56.77	56.77
August	4	56.93	56.15
September	3	57.03	56.22
October	4	57.10	55.89
November	2	57.04	55.89
December	3	56.97	55.78

LOCAL IDENTIFIER.--135-084-16ABB.

LOCATION.--Lat. 46.51531, long. -101.24550.

DATUM.--Altitude of land surface datum is 1879.20 feet.

Summary of periodic ground-water level data, in feet below land surface datum, August 1992 through December 1994

Month	Sample size	Maximum	Minimum
April	2	29.87	28.99
May	2	29.84	29.09
June	2	29.85	29.31
July	1	30.14	30.14
August	5	30.48	29.43
September	3	30.32	29.58
October	4	30.22	29.14
November	2	30.10	29.12
December	3	30.04	29.02

LOCAL IDENTIFIER.--135-084-21DDD1.

LOCATION.--Lat. 46.48827, long. -101.23752.

DATUM.--Altitude of land surface datum is 1865.90 feet.

Summary of periodic ground-water level data, in feet below land surface datum, August 1992 through December 1994

Month	Sample size	Maximum	Minimum
April	2	20.58	19.50
May	2	20.45	19.36
June	2	20.31	19.30
July	1	20.15	20.15
August	5	24.83	17.43
September	3	19.68	17.39
October	4	23.25	19.45
November	2	21.77	19.34
December	3	21.38	19.35

LOCAL IDENTIFIER.--135-084-21DDD2.

LOCATION.--Lat. 46.48827, long. -101.23752.

DATUM.--Altitude of land surface datum is 1866.30 feet.

Summary of periodic ground-water level data, in feet below land surface datum, August 1992 through December 1994

Month	Sample size	Maximum	Minimum
April	2	7.47	6.52
May	2	7.34	6.54
June	2	7.44	6.52
July	1	7.40	7.40
August	4	7.93	6.33
September	3	7.97	7.05
October	4	7.97	6.81
November	2	7.87	6.85
December	3	7.85	6.75

LOCAL IDENTIFIER.--135-084-26DAA1.

LOCATION.--Lat. 46.47912, long. -101.19561.

DATUM.--Altitude of land surface datum is 1857.50 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1973 through December 1994

Month	Sample size	Maximum	Minimum
February	1	13.15	13.15
March	1	12.44	12.44
April	2	12.67	11.60
May	4	12.55	11.53
June	3	12.47	11.40
July	2	12.37	11.32
August	5	12.81	11.75
September	4	12.66	11.82
October	5	12.84	11.52
November	12	13.32	11.38
December	14	12.90	10.62

LOCAL IDENTIFIER.--135-084-26DAA2.

LOCATION.--Lat. 46.47912, long. -101.19561.

DATUM.--Altitude of land surface datum is 1856.50 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1973 through December 1994

Month	Sample size	Maximum	Minimum
February	1	8.29	8.29
March	1	7.72	7.72
April	2	8.19	7.02
May	4	8.02	6.97
June	3	7.98	6.83
July	2	7.86	6.19
August	5	8.21	7.25
September	4	8.24	7.39
October	5	8.41	7.06
November	12	8.36	6.39
December	14	8.30	5.50

LOCAL IDENTIFIER.--135-084-26DAA3.

LOCATION.--Lat. 46.47912, long. -101.19561.

DATUM.--Altitude of land surface datum is 1856.90 feet.

Summary of periodic ground-water level data, in feet below land surface datum, November 1973 through December 1994

Month	Sample size	Maximum	Minimum
February	1	5.54	5.54
March	1	4.44	4.44
April	2	5.19	3.44
May	4	5.05	2.56
June	3	5.18	4.14
July	2	5.02	2.81
August	5	6.11	3.32
September	4	6.30	3.77
October	5	6.37	4.24
November	12	6.13	3.43
December	13	6.13	1.77

LOCAL IDENTIFIER.--136-097-32DDA2.

LOCATION.--Lat. 46.54569, long. -102.88462.

DATUM.--Altitude of land surface datum is 2586.90 feet.

Summary of periodic ground-water level data, in feet below land surface datum, June 1994 through August 1994

Month	Sample size	Maximum	Minimum
June	1	34.33	34.33
July	1	35.15	35.15
August	3	35.60	35.34



LOCAL IDENTIFIER.--136-097-32DDA3.

LOCATION.--Lat. 46.54569, long. -102.88462.

DATUM.--Altitude of land surface datum is 2586.90 feet.

Summary of periodic ground-water level data, in feet below land surface datum, July 18, 1994

Month	Sample size	Maximum	Minimum
July	1	-1.84	-1.84

LOCAL IDENTIFIER.--136-097-32DDB.

LOCATION.--Lat. 46.54564, long. -102.88721.

DATUM.--Altitude of land surface datum is 2580.15 feet.

Summary of periodic ground-water level data, in feet below land surface datum, June 1994 through August 1994

Month	Sample size	Maximum	Minimum
June	1	26.91	26.91
July	1	28.89	28.89
August	3	28.58	28.25

LOCAL IDENTIFIER.--136-097-32DDD.

LOCATION.--Lat. 46.54388, long. -102.88454.

DATUM.--Altitude of land surface datum is 2577.89 feet.

Summary of periodic ground-water level data, in feet below land surface datum, June 1994 through August 1994

Month	Sample size	Maximum	Minimum
June	1	26.66	26.66
July	1	26.89	26.89
August	3	27.38	27.10

LOCAL IDENTIFIER.--136-097-32DDDC.

LOCATION.--Lat. 46.54341, long. -102.88517.

DATUM.--Altitude of land surface datum is 2571.64 feet.

Summary of periodic ground-water level data, in feet below land surface datum, June 1994 through August 1994

Month	Sample size	Maximum	Minimum
June	1	18.48	18.48
July	1	20.18	20.18
August	3	20.91	20.53

**Table 9.** Summary of periodic ground-water quality data obtained from the North Dakota State Water Commission  
 [Latitude and longitude are shown in decimal degrees as obtained from the North Dakota State Water Commission; X, sampled for one or more representative physical properties or constituents in category; --, no data]

Local Identifier	Latitude	Longitude	Period of record	Sample size	Category for which samples were analyzed		
					Physical properties	Major ions <sup>1</sup>	Trace metals <sup>2</sup>
129-085-26CCC1	45.9595	-101.29078	1971	1	X	X	--
129-086-04CDD1	46.01732	-101.449	1971	1	X	X	--
129-087-10BBC	46.01564	-101.54101	1972,73,78,81	7	X	X	--
129-088-05DDD1	46.01766	-101.70871	1973	1	X	X	--
129-088-05DDD2	46.01766	-101.70871	1973	1	X	X	--
129-088-05DDD3	46.01766	-101.70871	1973	1	X	X	--
129-088-31DDA	45.94703	-101.72954	1971	1	X	X	--
129-089-18DDA	45.99064	-101.85423	1971	1	X	X	--
129-089-20BCC1	45.98157	-101.85159	1971	1	X	X	--
129-089-20BCC2	45.98157	-101.85159	1971	1	X	X	--
129-089-24DDD2	45.97418	-101.75011	1971	1	X	X	--
129-090-29ACA	45.96898	-101.96312	1971	1	X	X	--
129-091-07AAA1	46.01623	-102.10331	1971	1	X	X	--
129-091-07AAA2	46.01623	-102.10331	1971,79,93	3	X	X	X
129-091-08CCC	46.00359	-102.10088	1971	1	X	X	--
129-091-19BAA	45.98723	-102.11359	1971	1	X	X	--
129-092-06DDC	46.01813	-102.23056	1970	1	X	X	--
129-092-26CCB	45.96192	-102.1629	1971	1	X	X	--
129-092-35	45.95195	-102.15385	1971	1	X	X	--
129-093-08CBB1	46.00926	-102.35015	1972	1	X	X	--
129-093-08CBB2	46.00926	-102.35015	1972	1	X	X	--
129-093-28ABB2	45.97296	-102.3189	1971	1	X	X	--
129-093-28ABB3	45.97296	-102.3189	1971	1	X	X	--
130-084-31AAA1	46.04445	-101.23089	1973	1	X	X	--
130-084-36ABA	46.04425	-101.13213	1973	1	X	X	--
130-085-08DA	46.0944	-101.33597	1972-94	52	X	X	X
130-085-17DAA	46.08082	-101.33476	1972,73,81	7	X	X	--
130-086-28CCC1	46.04632	-101.45681	1973	1	X	X	--
130-086-28CCC2	46.04632	-101.45681	1973	1	X	X	--
130-086-28CCC2	46.04632	-101.45681	1978	1	X	X	--
130-088-22CDD	46.06101	-101.67755	1971	1	X	X	--
130-89-32DDA	46.03412	-101.83314	1972,78	2	X	X	--
130-089-33CCB	46.03409	-101.83072	1971-76	30	X	X	--
130-090-04BBD	46.1157	-101.95282	1971	1	X	X	--
130-090-10DDD	46.09038	-101.91641	1971	1	X	X	--
130-091-09BAB	46.10306	-102.07466	1971	1	X	X	--
130-092-22CBB	46.06692	-102.18369	1971	2	X	X	--
130-092-22CCC	46.06151	-102.18361	1971	2	X	X	--
130-092-27BBA2	46.05971	-102.18101	1970	1	X	X	--
130-092-27BBA3	46.05971	-102.18101	1972	1	X	X	--
130-094-07DDD1	46.09082	-102.47729	1972	1	X	X	--
130-094-07DDD2	46.09082	-102.47729	1972	1	X	X	--
130-094-31BCC	46.04011	-102.49535	1971	1	X	X	--
130-095-28AAA	46.05998	-102.56029	1971	1	X	X	--
130-096-14AAB	46.08902	-102.6459	1971	1	X	X	--

Local Identifier	Latitude	Longitude	Period of record	Sample size	Category for which samples were analyzed		
					Physical properties	Major ions <sup>1</sup>	Trace metals <sup>2</sup>
130-096-15BCC	46.08354	-102.68235	1971	1	X	X	--
131-084-03AAD	46.20181	-101.1684	1972,73	3	X	X	--
131-085-08DDD1	46.17654	-101.33462	1971	1	X	X	--
131-085-32ADA	46.12772	-101.33467	1972	1	X	X	--
131-086-04ADA	46.20015	-101.4387	1971	1	X	X	--
131-086-14DAB	46.16761	-101.39956	1980	1	X	X	--
131-087-06BCB1	46.19988	-101.6228	1971	1	X	X	--
131-087-28CDD	46.13316	-101.57385	1971	1	X	X	--
131-087-32CDC	46.1188	-101.5972	1971	1	X	X	--
131-087-33CBA	46.12417	-101.57903	1971	1	X	X	--
131-089-30AAA	46.14644	-101.85448	1973	1	X	X	--
131-090-04CAA2	46.19731	-101.94773	1971	1	X	X	--
131-090-04DDC1	46.19187	-101.93992	1971	1	X	X	--
131-091-10CCC	46.17739	-102.05879	1971	1	X	X	--
131-091-13CCB	46.16467	-102.01711	1980	1	X	X	--
131-091-15CCC	46.16282	-102.05881	1972	1	X	X	--
131-092-05DDD	46.19188	-102.20712	1988,93	2	X	X	X
131-092-08BBA	46.1901	-102.22278	1970	1	X	X	--
131-093-21AAA1	46.1613	-102.31101	1972	1	X	X	--
131-093-21AAA2	46.1613	-102.31101	1972	1	X	X	--
131-093-21AAA3	46.1613	-102.31101	1972	1	X	X	--
131-094-07DAA	46.18322	-102.47747	1970	1	X	X	--
131-094-20	46.15511	-102.46567	1971-93	59	X	X	X
131-094-20CBC1	46.15236	-102.4748	1971	1	X	X	--
131-094-20CBC2	46.15236	-102.4748	1971,79,93	4	X	X	X
131-094-20CBC3	46.15236	-102.4748	1971	1	X	X	--
131-095-15DCC	46.16316	-102.54754	1971	1	X	X	--
131-095-22BAA	46.16137	-102.55015	1971	1	X	X	--
131-095-27CCB	46.13609	-102.55798	1970	1	X	X	--
131-096-02DBD	46.19579	-102.64865	1971	1	X	X	--
131-096-15CCC1	46.16314	-102.68219	1971	1	X	X	--
131-096-15CCC2	46.16336	-102.6824	1972	1	X	X	--
131-096-18ADD	46.17052	-102.72681	1971	1	X	X	--
131-096-21DDA	46.15054	-102.68509	1971	1	X	X	--
131-096-27BCC2	46.14149	-102.68245	1971	1	X	X	--
131-096-30DCD	46.13434	-102.73188	1971	1	X	X	--
131-098-01BCC4	46.1994	-102.88999	1971	1	X	X	--
131-098-07BCC	46.185	-102.9936	1971	1	X	X	--
131-098-08CDD	46.17771	-102.9656	1971	1	X	X	--
131-098-23DAD1	46.15228	-102.89253	1972	1	X	X	--
131-098-23DAD2	46.15228	-102.89253	1972	1	X	X	--
131-099-04DAA	46.19777	-103.05865	1971	1	X	X	--
132-083-08DCD	46.26313	-101.09043	1972	3	X	X	--
132-083-19CDC	46.23432	-101.11897	1971	1	X	X	--
132-083-29BBB	46.23247	-101.10373	1971	1	X	X	--
132-083-29CCC	46.21978	-101.10359	1971,81	2	X	X	--
132-083-30BCB	46.22891	-101.12412	1971	1	X	X	--
132-083-30DCC	46.21982	-101.11386	1972,73	3	X	X	--
132-083-31DBA	46.21083	-101.11132	1971	1	X	X	--
132-084-01DAA	46.28015	-101.12668	1971	1	X	X	--

Local identifier	Latitude	Longitude	Period of record	Sample size	Category for which samples were analyzed		
					Physical properties	Major ions <sup>1</sup>	Trace metals <sup>2</sup>
132-084-06CCC	46.27738	-101.24874	1971	1	X	X	--
132-084-12BAA	46.27587	-101.13701	1973	1	X	X	--
132-084-12CCD	46.26316	-101.14237	1972	1	X	X	--
132-084-16DAA	46.25423	-101.18945	1973	1	X	X	--
132-086-21BCB	46.24357	-101.45691	1971	1	X	X	--
132-086-24AAA	46.24711	-101.37619	1974	1	X	X	--
132-087-27ADA	46.22889	-101.54266	1972,73,78,81	8	X	X	--
132-090-14AAB1	46.26244	-101.89812	1973	1	X	X	--
132-090-14AAB2	46.26244	-101.89812	1973,78	2	X	X	--
132-091-14AAB	46.26242	-102.02213	1967	1	X	X	--
132-091-28DDD	46.22081	-102.06141	1968,87	2	X	X	--
132-092-09AAA	46.27698	-102.18651	1967	4	X	X	--
132-092-21DDD	46.23549	-102.1865	1969	1	X	X	--
132-092-24AAA	46.24784	-102.12362	1969	1	X	X	--
132-093-23BAB2	46.24821	-102.28246	1967	1	X	X	--
132-093-28BCB2	46.23012	-102.32929	1969	1	X	X	--
132-094-15BBB1	46.26296	-102.43319	1969	1	X	X	--
132-094-15BBB2	46.26296	-102.43319	1969	1	X	X	--
132-094-29CCC	46.22119	-102.4749	1969	1	X	X	--
132-095-20AAD	46.24657	-102.58179	1917	1	X	X	--
132-096-22ABC1	46.24654	-102.67242	1972	1	X	X	--
132-096-22ABC2	46.24654	-102.67242	1972	1	X	X	--
132-096-23BBB	46.24653	-102.65938	1971	1	X	X	--
132-096-26BBA2	46.23384	-102.6593	1971	1	X	X	--
132-097-07CAB	46.27	-102.8643	1971	3	X	X	--
132-097-07CAB2	46.27	-102.8643	1971,79	2	X	X	--
132-097-07CAB3	46.27	-102.8643	1971,92	2	X	X	--
132-097-07CAB4	46.27	-102.8643	1972	1	X	X	--
132-097-08DAA	46.27	-102.831	1971,77	2	X	X	--
132-097-09AAA	46.27727	-102.81002	1971	1	X	X	--
132-097-09CCC2	46.26459	-102.82839	1976	1	X	X	--
132-097-15CBC	46.25373	-102.80742	1970	1	X	X	--
132-097-17ADD	46.25733	-102.83095	1976	1	X	X	--
132-097-23BAA	46.24838	-102.7787	1970	1	X	X	--
132-098-23CDD	46.23558	-102.90311	1970	1	X	X	--
132-099-32DDC1	46.20667	-103.0822	1971	1	X	X	--
132-099-32DDC2	46.20667	-103.0822	1971	1	X	X	--
132-100-14ADB	46.25912	-103.14429	1970	1	X	X	--
132-101-10DDD	46.26453	-103.28721	1972	1	X	X	--
132-101-12CCC	46.26449	-103.26371	1971	1	X	X	--
133-080-12DDD	46.34318	-100.67352	1971	1	X	X	--
133-082-01	46.36416	-100.9334	1970-72	19	X	X	--
133-082-05ABC	46.36874	-101.01598	1972	1	X	X	--
133-082-05DBA	46.3633	-101.01334	1972,73	2	X	X	--
133-082-15ACD2	46.33604	-100.97127	1972	1	X	X	--
133-082-29CDD	46.2999	-101.0181	1972	1	X	X	--
133-082-31DDA	46.28713	-101.02851	1972	1	X	X	--
133-082-32BAD	46.29627	-101.01809	1972	1	X	X	--
133-083-06CDD	46.3578	-101.16411	1971	1	X	X	--
133-083-07CCB1	46.34512	-101.17198	1971,78	2	X	X	--

Local Identifier	Latitude	Longitude	Period of record	Sample size	Category for which samples were analyzed		
					Physical properties	Major ions <sup>1</sup>	Trace metals <sup>2</sup>
133-083-12ADA1	46.35246	-101.04931	1973	2	X	X	--
133-083-17DAA	46.33437	-101.13289	1971,78	2	X	X	--
133-083-21ABB	46.32715	-101.1198	1971	1	X	X	--
133-083-28AAB	46.31269	-101.11459	1971	1	X	X	--
133-083-28DCD	46.29987	-101.11726	1071	1	X	X	--
133-083-34CBC	46.28902	-101.10942	1971	1	X	X	--
133-084-01DCC	46.3578	-101.18239	1973	1	X	X	--
133-085-12AAD	46.35421	-101.29979	1972	2	X	X	--
133-089-04DAD	46.36117	-101.86112	1972	3	X	X	--
133-089-15BAA	46.34123	-101.85103	1970	1	X	X	--
133-089-32BDA2	46.29388	-101.89356	1971	1	X	X	--
133-090-06CC	46.35781	-102.04431	1972-81	40	X	X	--
133-091-01BBD	46.36773	-102.06411	1967	1	X	X	--
133-091-24BAB	46.32613	-102.06096	1967	1	X	X	--
133-092-05B	46.36737	-102.27218	1967	1	X	X	--
133-092-27ABB	46.31184	-102.22268	1969	1	X	X	--
133-093-02AAB	46.37024	-102.32151	1967	1	X	X	--
133-093-05DCC	46.35727	-102.38949	1967	1	X	X	--
133-093-26AAA	46.31228	-102.31881	1967	1	X	X	--
133-094-04D	46.35931	-102.49036	1967	1	X	X	--
133-094-12BDD	46.34979	-102.43406	1967	1	X	X	--
133-094-25ACC	46.30633	-102.43129	1969	1	X	X	--
133-095-11DDD2	46.34159	-102.57052	1969	1	X	X	--
133-095-19DDD	46.31246	-102.65393	1969	1	X	X	--
133-095-26AAD2	46.30896	-102.57011	1969	1	X	X	--
133-096-10BBB	46.35354	-102.73598	1967	1	X	X	--
133-096-28DAA2	46.30288	-102.73773	1969	1	X	X	--
133-097-09AAA1	46.35312	-102.86349	1971	1	X	X	--
133-097-09AAA2	46.35312	-102.86349	1967,71	3	X	X	--
133-097-11DDA2	46.34229	-102.82154	1968	1	X	X	--
133-097-32DCC3	46.28243	-102.89129	1967	1	X	X	--
133-097-34BBB	46.29519	-102.86018	1968	2	X	X	--
133-098-06DCC	46.35342	-103.03854	1975	1	X	X	--
133-098-14AAA	46.33842	-102.94691	1975	1	X	X	--
133-098-18DDD	46.32455	-103.03031	1975	1	X	X	--
133-098-19DDB	46.31186	-103.03263	1975	1	X	X	--
133-098-20CBC	46.31376	-103.02749	1975	1	X	X	--
133-098-21B	46.32039	-103.00285	1972-94	35	X	X	X
133-098-32BCA	46.29015	-103.02452	1975	1	X	X	--
133-099-02CBB	46.35852	-103.09068	1974,75	2	X	X	--
133-099-20ADA	46.31875	-103.13448	1975	1	X	X	--
133-099-32BBA	46.29342	-103.14988	1974	1	X	X	--
133-100-08ADA	46.34774	-103.25958	1975	1	X	X	--
133-101-34DAA	46.28628	-103.34295	1975	1	X	X	--
134-079-07BCB	46.43984	-100.67073	1973	1	X	X	--
134-079-20AAB	46.41457	-100.63442	1975	1	X	X	--
134-080-16DAA	46.42076	-100.73606	1973	1	X	X	--
134-080-17DDD	46.41553	-100.7571	1974	1	X	X	--
134-080-23BAB	46.41491	-100.69791	1974	1	X	X	--
134-081-06DAB1	46.45008	-100.90601	1972	1	X	X	--

Local Identifier	Latitude	Longitude	Period of record	Sample size	Category for which samples were analyzed		
					Physical properties	Major ions <sup>1</sup>	Trace metals <sup>2</sup>
134-081-06DAB2	46.45008	-100.90601	1972	1	X	X	--
134-081-08DAD1	46.43382	-100.88251	1972	1	X	X	--
134-081-08DAD2	46.43382	-100.88251	1972	1	X	X	--
134-081-30BCD2	46.39406	-100.91897	1972	1	X	X	--
134-082-01AAC	46.45548	-100.92676	1972	1	X	X	--
134-082-01ACA	46.4537	-100.92939	1972	1	X	X	--
134-082-35DAA	46.37779	-100.94511	1972	1	X	X	--
134-082-36	46.37865	-100.93337	1970,71,90,93,94	9	X	X	X
134-082-36DCD	46.37227	-100.92956	1971,78	2	X	X	--
134-083-05CCD1	46.44464	-101.14886	1972	1	X	X	--
134-083-05CCD2	46.44464	-101.14886	1972	1	X	X	--
134-083-05DCC	46.44465	-101.14099	1973,92	2	X	X	--
134-083-17CCC	46.4157	-101.15139	1973,92	2	X	X	--
134-083-17DBD	46.41931	-101.13826	1972	1	X	X	--
134-083-17DDB1	46.41748	-101.13564	1973,92	2	X	X	--
134-083-17DDB2	46.41748	-101.13564	1973,92	2	X	X	--
134-083-23CAD	46.40493	-101.08067	1972	1	X	X	--
134-083-26BBA	46.39953	-101.08588	1973,92	2	X	X	--
134-083-32AAA	46.38497	-101.13301	1973	1	X	X	--
134-083-32AAA2	46.38497	-101.13301	1973	1	X	X	--
134-084-01CDC	46.44466	-101.18764	1973	1	X	X	--
134-084-01CDC2	46.44466	-101.18764	1973	1	X	X	--
134-084-03AAD	46.45566	-101.21651	1972	1	X	X	--
134-084-03ADC	46.45202	-101.21913	1975	1	X	X	--
134-084-03B	46.45475	-101.23093	1970	1	X	X	--
134-084-03CBA1	46.45021	-101.23222	1975	1	X	X	--
134-084-11DDD	46.43019	-101.19543	1973,92	2	X	X	--
134-085-21DAB3	46.40676	-101.36514	1973	1	X	X	--
134-089-27ABC1	46.39791	-101.8476	1972	1	X	X	--
134-090-35DAC	46.37518	-101.94679	1972	1	X	X	--
134-090-35DBD	46.37517	-101.94941	1972	1	X	X	--
134-090-36CBC	46.37519	-101.94156	1972	1	X	X	--
134-091-06DDC2	46.44361	-102.15651	1970	1	X	X	--
134-091-32CCC	46.37118	-102.15051	1967,71,74,81,93	5	X	X	X
134-091-34DDD	46.37136	-102.09033	1969	1	X	X	--
134-092-02CCC	46.4439	-102.21408	1969	1	X	X	--
134-092-34DDC	46.37153	-102.21854	1969,81	2	X	X	--
134-093-08DBB	46.43509	-102.38969	1969	1	X	X	--
134-093-12CCC2	46.43007	-102.31629	1969	1	X	X	--
134-093-23ADD	46.40835	-102.31883	1969,93	2	X	X	X
134-093-35DCD1	46.37205	-102.32413	1967	1	X	X	--
134-093-35DCD2	46.37205	-102.32413	1967	1	X	X	--
134-094-08DCC	46.4288	-102.51524	1968,69	2	X	X	--
134-094-32AAA1	46.38357	-102.50742	1967	1	X	X	--
134-095-03DCC	46.44297	-102.60121	1967	1	X	X	--
134-095-13AA	46.42578	-102.5523	1970-93	56	X	X	X
134-095-20AAA	46.4121	-102.63461	1967	1	X	X	--
134-096-05CCD2	46.44217	-102.77617	1969	1	X	X	--
134-096-25BBB	46.39745	-102.69469	1969	1	X	X	--
134-096-32A	46.37968	-102.76394	1967	1	X	X	--

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					Physical properties	Major ions <sup>1</sup>	Trace metals <sup>2</sup>
134-097-15CCC2	46.41301	-102.86132	1967	1	X	X	--
134-097-22BCC	46.40576	-102.8613	1967	1	X	X	--
134-098-06DDA	46.44201	-103.03106	1975	1	X	X	--
134-098-27DAA	46.3894	-102.96867	1975	1	X	X	--
134-098-33BCC	46.37552	-103.0079	1975	1	X	X	--
134-099-21DCC	46.39662	-103.12251	1976	1	X	X	--
134-100-07ADD2	46.43265	-103.28054	1977	1	X	X	--
134-100-10AAD	46.4364	-103.21783	1975	1	X	X	--
135-080-30AAB	46.48617	-100.78064	1973	1	X	X	--
135-080-32DDA	46.46071	-100.75711	1972	1	X	X	--
135-080-33DDA	46.46059	-100.73604	1973	1	X	X	--
135-081-24DDD	46.48799	-100.799	1975	1	X	X	--
135-082-30CBB	46.47921	-101.04697	1973	1	X	X	--
135-083-31BCD	46.46647	-101.16946	1972	1	X	X	--
135-083-32CBB1	46.46467	-101.1515	1975,93	2	X	X	--
135-083-32CBB2	46.46467	-101.1515	1975,93	2	X	X	--
135-084-04DCC	46.53168	-101.24545	1973,92	2	X	X	--
135-084-09CCD	46.51705	-101.2533	1974	2	X	X	--
135-084-16AAA1	46.51539	-101.2377	1974	1	X	X	--
135-084-16AAA2	46.51538	-101.2377	1974	1	X	X	--
135-084-16AAA3	46.51538	-101.2377	1974	1	X	X	--
135-084-16AAA4	46.51538	-101.2377	1974	1	X	X	--
135-084-16AAA5	46.51538	-101.2377	1974	1	X	X	--
135-084-16AAA6	46.51538	-101.2377	1974	1	X	X	--
135-084-16AAA7	46.51538	-101.2377	1974	1	X	X	--
135-084-16AAA8	46.51538	-101.2377	1974	1	X	X	--
135-084-16AAA9	46.51538	-101.2377	1974	5	X	X	--
135-084-16AAB	46.51536	-101.2403	1974,92	2	X	X	--
135-084-16AAD	46.51357	-101.2377	1974,93	2	X	X	--
135-084-16ABA	46.51534	-101.2429	1974,92,94	4	X	X	--
135-084-21DDD1	46.48827	-101.23752	1973	1	X	X	--
135-084-21DDD2	46.48827	-101.23752	1973,92	2	X	X	--
135-084-23AAB	46.50079	-101.19831	1972	1	X	X	--
135-084-26DAA1	46.47912	-101.19561	1973,93	2	X	X	--
135-084-26DAA2	46.47912	-101.19561	1973,92	2	X	X	--
135-084-26DAA3	46.47912	-101.19561	1973,92	2	X	X	--
135-091-20ACB	46.49606	-102.14157	1969	1	X	X	--
135-091-28CCB3	46.4744	-102.13082	1969	1	X	X	--
135-093-01BCB	46.54057	-102.31629	1967	1	X	X	--
135-093-08ABA	46.52916	-102.38726	1969	1	X	X	--
135-093-12CCC	46.51699	-102.31639	1967	1	X	X	--
135-094-19CCC	46.48647	-102.54904	1967	1	X	X	--
135-094-28CBB	46.47779	-102.50489	1969	1	X	X	--
135-094-31CCC	46.45747	-102.54886	1969,71	2	X	X	--
135-095-19DDC2	46.48621	-102.65904	1969	1	X	X	--

Local identifier	Latitude	Longitude	Period of record	Sample size	Category for which samples were analyzed		
					Physical properties	Major ions <sup>1</sup>	Trace metals <sup>2</sup>
135-096-10BAA	46.52754	-102.72926	1969	1	X	X	--
135-096-20BBB2	46.49833	-102.77918	1969	1	X	X	--
135-096-28BDA	46.48038	-102.75014	1969	1	X	X	--
135-096-34CB	46.46146	-102.73572	1975,76	3	X	X	--
135-097-04ABB	46.54202	-102.87152	1967	1	X	X	--
135-097-04ADD	46.53655	-102.86383	1967	1	X	X	--
135-097-04CCA	46.53098	-102.8797	1987	1	X	X	--
135-097-04DCA	46.531	-102.86924	1968,93	4	X	X	X
135-097-07A	46.52442	-102.91076	1970	2	X	X	--
135-098-32DAD1	46.45835	-103.0107	1975	1	X	X	--
135-099-01DDD	46.52712	-103.05251	1974	1	X	X	--
135-101-26BAA	46.48148	-103.33266	1974	1	X	X	--
136-083-10CDA	46.60593	-101.10181	1972	1	X	X	--
136-083-10CDD	46.60412	-101.10181	1972	1	X	X	--
136-083-19ADB1	46.58407	-101.15688	1972	1	X	X	--
136-083-22BDD1	46.58243	-101.10184	1972	1	X	X	--
136-083-22BDD3	46.58243	-101.10184	1972	1	X	X	--
136-083-22CCB	46.57698	-101.10971	1972	1	X	X	--
136-083-22CDD3	46.57514	-101.10182	1972	1	X	X	--
136-083-26DDC	46.56068	-101.07277	1972	1	X	X	--
136-083-32CDD1	46.54609	-101.14372	1972	1	X	X	--
136-093-34BCD	46.55316	-102.35568	1969	1	X	X	--
136-094-03DDD	46.61755	-102.46561	1968	1	X	X	--
136-094-33CBC	46.54823	-102.50495	1967	1	X	X	--
136-096-19DDD	46.57248	-102.78157	1967	1	X	X	--
136-097-15DAD	46.59105	-102.84276	1967	1	X	X	--
136-097-32CBB	46.54915	-102.90299	1967	1	X	X	--
136-097-32DDA2	46.54569	-102.88462	1994	1	X	X	X
136-097-32DDB	46.54564	-102.88721	1994	1	X	X	X
136-097-32DDD	46.54388	-102.88454	1994	1	X	X	X
136-097-32DDDC	46.54341	-102.88517	1994	1	X	X	X
136-098-31ABB	46.55407	-103.03914	1975	1	X	X	--
136-098-33CCD	46.54158	-103.00518	1975	1	X	X	--
136-099-26DAD	46.55953	-103.07331	1976	1	X	X	--
136-100-31DDC1	46.5414	-103.28324	1975	1	X	X	--
136-100-31DDC2	46.5414	-103.28324	1977	1	X	X	--
137-094-20CCD2	46.65994	-102.57567	1969	1	X	X	--
137-094-32BBB1	46.64355	-102.57807	1969	1	X	X	--
137-095-28	46.65169	-102.67382	1967	1	X	X	--
137-097-31BDD	46.63812	-102.96922	1967	1	X	X	--
137-099-24ABA	46.67239	-103.11143	1969	1	X	X	--
130-083-28DC	46.04701	-101.07111	1965	1	X	X	--
130-084-13AA	46.08691	-101.12813	1966	1	X	X	--
130-090-09AD	46.09857	-101.93864	1967	1	X	X	--
131-086-14	46.16853	-101.4061	1968	1	X	X	--
132-089-14CBB	46.2548	-101.78945	1968	1	X	X	--
132-089-22CCC1	46.23498	-101.81021	1968	1	X	X	--
132-090-31	46.21268	-101.9876	1964	1	X	X	--
133-079-07	46.34951	-100.66183	1967	1	X	X	--
133-082-07CC	46.34427	-101.04543	1969	1	X	X	--



Local Identifier	Latitude	Longitude	Period of record	Sample size	Category for which samples were analyzed		
					Physical properties	Major ions <sup>1</sup>	Trace metals <sup>2</sup>
133-085-06	46.3643	-101.41348	1966	1	X	X	--
133-088-14D	46.33174	-101.7006	1965	1	X	X	--
133-092-12	46.34873	-102.18285	1967	1	X	X	--
133-092-16	46.33464	-102.24533	1966	1	X	X	--
133-093-02BAD	46.3684	-102.32934	1966	1	X	X	--
133-093-05AAD	46.36816	-102.38176	1965	1	X	X	--
133-093-09	46.34922	-102.36975	1968	1	X	X	--
133-096-04	46.36169	-102.74798	1968	1	X	X	--
133-096-06BB	46.36676	-102.797	1967	1	X	X	--
134-079-16	46.42247	-100.61992	1967	1	X	X	--
134-089-35	46.37912	-101.82815	1968	1	X	X	--
134-090-13	46.42141	-101.93215	1967	1	X	X	--
134-090-13	46.42141	-101.93215	1967	1	X	X	--
134-090-36CBC	46.37519	-101.94156	1966	1	X	X	--
134-090-36CCB	46.37338	-101.94157	1966	1	X	X	--
134-093-02DC	46.44545	-102.32544	1967	1	X	X	--
134-097-34DAA	46.37491	-102.84289	1966	1	X	X	--
134-099-14	46.41748	-103.08222	1967	1	X	X	--
135-083-34	46.46564	-101.10057	1965	1	X	X	--
135-084-16AAA1	46.51539	-101.2377	1974	1	X	X	--
135-084-16ABA	46.51534	-101.2429	1974	1	X	X	--
135-084-16ABB	46.51531	-101.2455	1973	1	X	X	--
135-096-22DD	46.48687	-102.72011	1984	1	X	X	--
135-097-04	46.53559	-102.87303	1968	1	X	X	--
136-094-04	46.62321	-102.496	1961	1	X	X	--
136-095-28BB	46.57056	-102.63179	1966	2	X	X	--
136-100-31DDC1	46.5414	-103.28324	1975	1	X	X	--
137-095-32	46.63723	-102.69482	1959	1	X	X	--

<sup>1</sup>Data consist of values for major cations and anions and common metals, such as iron and manganese, in solution.

<sup>2</sup>Data consist of values for trace metals.