

Surface-Water Quantity and Quality Data, Rocky Flats Environmental Technology Site Near Denver, Colorado, Water Years 1994–95

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
acre	0.404687	hectare
acre-foot (acre-ft)	1233.5	cubic meter
cubic foot (ft ³)	0.028317	cubic meter
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second
foot (ft)	0.3048	meter
gallon (gal)	0.0037854	cubic meter
gallon per minute (gal/min)	3.7848	liter per minute
gallon per second (gal/s)	3.7848	liter per second
inch	25.4	millimeter (mm)
mile (mi)	1.609	kilometer
square mile (mi ²)	2.590	square kilometer

Degree Celsius (°C) may be converted to degree Fahrenheit (°F) by using the following equation:

$$^{\circ}\text{F} = 9/5 (^{\circ}\text{C}) + 32$$

Degree Fahrenheit (°F) may be converted to degree Celsius (°C) by using the following equation:

$$^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32)$$

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

Surface-Water Quantity and Quality Data, Rocky Flats Environmental Technology Site Near Denver, Colorado, Water Years 1994-95

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ABSTRACT

Collection of surface-water quantity and quality data at the Rocky Flats Environmental Technology Site is needed as part of the ongoing environmental cleanup of the facility, which is owned by the U.S. Department of Energy and operated by a private contractor. In May 1993, the U.S. Department of Energy entered into an interagency agreement with the U.S. Geological Survey to collect surface-water quantity and quality (chemical and suspended-sediment) data at the Rocky Flats Environmental Technology Site. This report presents data collected by the U.S. Geological Survey at 19 surface-water gaging stations during water years 1994–95. Quantity data, consisting of daily mean discharges, were collected and computed by the U.S. Geological Survey. Chemical-quality data were collected by the U.S. Geological Survey, then were analyzed independently by the operating contractor; analytical results presented in this report were provided to the U.S. Geological Survey by the operating contractor. Sediment data (suspended-sediment concentrations and sand breaks) were collected and analyzed by the U.S. Geological Survey.

INTRODUCTION

Collection of surface-water quantity and quality data at the Rocky Flats Environmental Technology Site (hereinafter, the Site) is needed as part of the ongoing environmental cleanup of the facility, which is owned by the U.S. Department of Energy (DOE) and operated by a private contractor (EG&G Rocky Flats, Incorporated through June 1995; Rocky Mountain Remediation Services, L.L.C. beginning July 1995). In May 1993, the DOE entered into an interagency agreement with the U.S. Geological Survey (USGS) to collect

surface-water quantity and quality (chemical and suspended-sediment) data and to operate and maintain surface-water gaging stations at the Site. The USGS collected data at 19 surface-water gaging stations at the Site (fig. 1) during water years 1994–95.

Surface-water quantity data can be used by the DOE and the operating contractor for making water-management decisions at the Site throughout the year. Surface-water quality data can be used by the DOE and the operating contractor to characterize and evaluate the quality of water flowing across the Site.

Purpose and Scope

This report presents surface-water hydrologic data collected by the USGS at the Site during water years 1994–95. These data include daily mean discharge and the analytical results of water-quality and suspended-sediment samples collected at 19 surface-water gaging stations (fig. 1). This report provides summary tables of the data collected at the Site, but does not provide any interpretation of the data beyond a qualitative rating of record quality (good, fair, or poor).

Description of the Study Area

The Site is situated on about 6,550 acres in northern Jefferson County, about 16 mi northwest of Denver, Colorado. Industrial facilities occupy about 384 acres near the center of the Site, and the remaining area serves as a buffer zone between these facilities and the Site boundary (EG&G Rocky Flats, Incorporated, 1993a). The USGS hydrologic network is in this buffer-zone area of the Site (fig. 1).

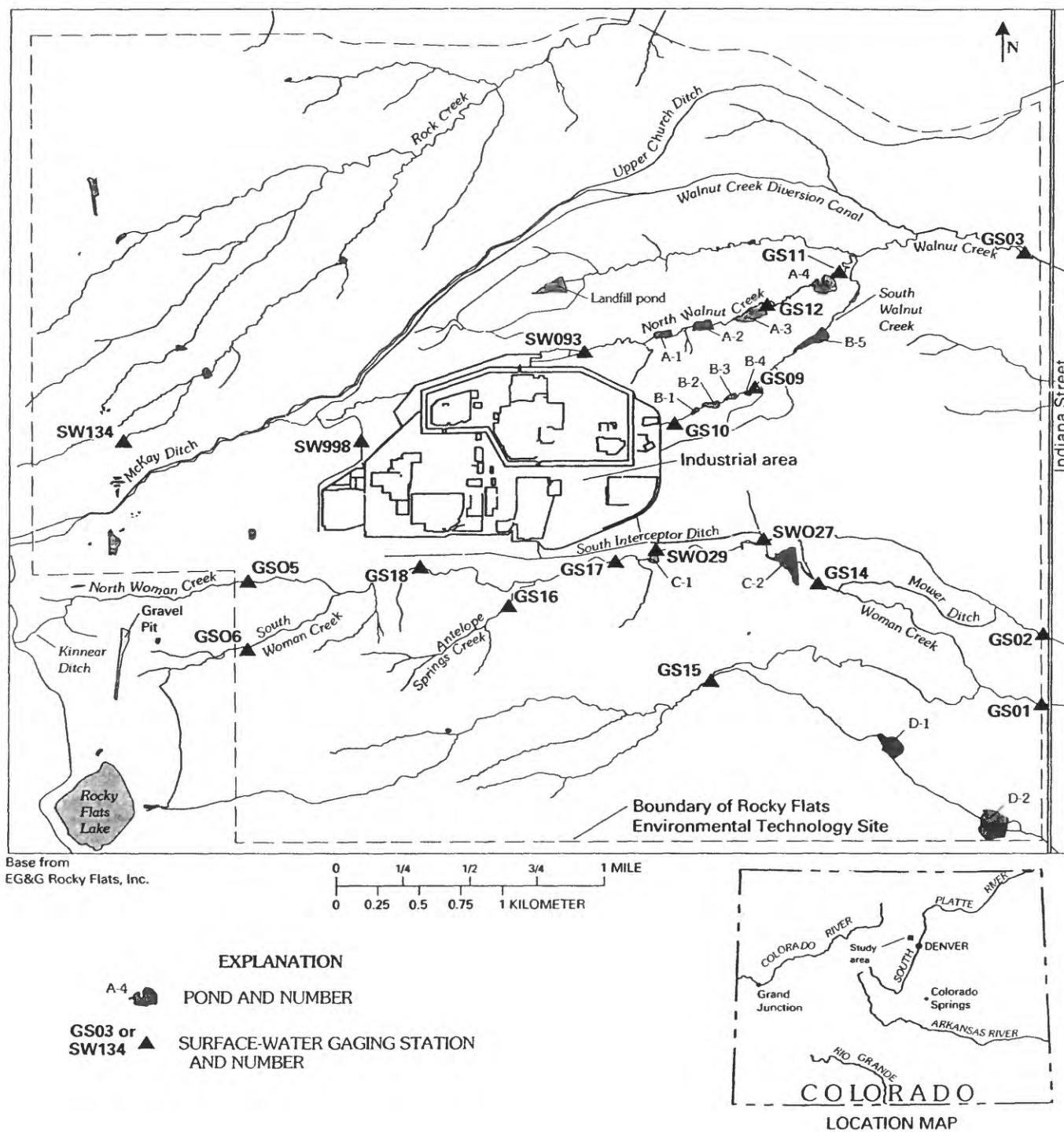


Figure 1. Location of surface-water gaging stations and selected surface-water features at the Rocky Flats Environmental Technology Site, water years 1994–95.

EXPLANATION OF THE SURFACE-WATER DATA

The surface-water quantity data published in this report consist of daily mean discharges for water years 1994–95. Water year 1994 began October 1, 1993, and ended September 30, 1994. Daily mean discharge data reported by the USGS for water year 1994 began in March, April, or May of 1994, depending on the activation date for each gaging station; earlier data for water year 1994 (October and November 1993) are reported by Rocky Mountain Remediation Services, L.L.C. (1995) and are not published in this report. Water year 1995 began October 1, 1994, and ended September 30, 1995. All daily mean discharge data at the Site for water year 1995 were measured by the USGS and are published in this report. A detailed explanation of how the discharge data were collected, analyzed, computed, and arranged for presentation in this report is provided in Appendix 1 (“Discharge-Data Collection and Computation”) at the back of this report. Definitions of hydrologic terms used in this report are provided in Appendix 2 (“Glossary”) at the back of this report.

The surface-water quality data published in this report consist of analytical results for all samples collected at the Site by the USGS in water years 1994–95. Field water-quality measurements (water temperature, specific conductance, and pH) and chemical-quality samples were collected by the USGS. Chemical-quality samples were analyzed independently by EG&G Rocky Flats, Incorporated. Sediment samples (suspended-sediment concentrations and sand breaks) were collected and analyzed by the USGS.

Surface-Water Gaging Station Identification Numbers

The USGS assigned a 15-digit station identification number to each gaging station identified in this report. The station identification usually is the latitude and longitude of the gaging station with a sequence number (00) at the end. Each gaging station in this report also was assigned a unique site number (for example, GS01) by EG&G Rocky Flats, Incorporated, as part of previous studies at the Site.

Discharge

The USGS gaging stations are designed to provide continuous records of discharge at each gage. Gaging stations operated at the Site by the USGS in water years 1994–95 are listed in table 1 and their locations are shown in figure 1. Continuous records of discharge are obtained using a continuous stage-recording device and a rating curve to convert observed stage values to discharge. Records of stage, recorded at 15-minute intervals, can be used to compute instantaneous discharge (at a given 15-minute interval) or daily mean discharge (mean for 24 hours). Daily mean discharges are presented in this report.

Daily Mean Discharge

Daily mean discharge data for each gaging station are listed in tables 4–40 in the “Surface-Water Data” section; data are ordered by site number (GS01, SW027, and so forth) as listed in table 1. Much of the gaging-station descriptive information at the beginning of each table was provided by EG&G Rocky Flats, Incorporated (1993b) and was reviewed by the USGS prior to publication in this report.

Flood Discharges for May 17, 1995

Most gaging stations at the Site were overtopped during the flooding on May 17, 1995. After flooding subsided, four gaging stations in the Woman Creek drainage were surveyed to compute peak (instantaneous) discharge by indirect methods (Benson and Dalrymple, 1967). Peak discharges were computed for gaging stations GS05, GS06, GS16, and SW029. Peak discharges at gaging stations GS05, GS06, and GS16 were computed using the slope-area method (Dalrymple and Benson, 1967); peak discharge at gaging station SW029 was estimated using the culvert-rating method (Bodhaine, 1968). Daily mean discharges at gaging stations GS05, GS06, GS16, and SW029 were estimated using rating-curve extension to the peak discharges, available gage-height data, hydrographic comparison, and other observed flood information. One current-meter measurement of discharge was made at gaging station SW029 during the flood recession.

Table 1. Surface-water gaging stations at the Rocky Flats Environmental Technology Site

[Locations of gaging stations are shown in figure 1; USGS, U.S. Geological Survey]

USGS station identification	Site number	Gaging-station name
395240105095500	GS01	Woman Creek at Indiana Street
395253105095500	GS02	Mower Ditch at Indiana Street
395407105095900	GS03	Walnut Creek at Indiana Street
395306105131700	GS05	North Woman Creek at West Buffer Zone Fence Line
395253105131700	GS06	South Woman Creek at West Buffer Zone Fence Line
395342105110800	GS09	South Walnut Creek below Pond B-4
395335105112700	GS10	South Walnut Creek above B-Series Bypass
395403105104700	GS11	Walnut Creek below Pond A-4
395358105110500	GS12	Walnut Creek below Pond A-3
395304105105100	GS14	Woman Creek below Pond C-2
395246105111800	GS15	Smart Ditch above Pond D-1
395301105120800	GS16	Antelope Springs Creek above Woman Creek
395309105114100	GS17	Woman Creek above Pond C-1
395308105123100	GS18	Woman Creek above Old Landfill
395313105110500	SW027	South Interceptor Ditch above Pond C-2
395310105113300	SW029	Pond C-1
395349105114900	SW093	Walnut Creek below Portal 3
395331105134400	SW134	Gravel Pit at Rocky Flats
395332105124600	SW998	T-130 Ditch at McKay Bypass

Peak and daily mean discharges for gaging station GS02 were computed from reliable gage-height data. Field conditions were not suitable for indirect measurement of peak discharge at gaging station GS01,

but a daily mean discharge was estimated using visual observations during the flood and hydrographic comparison with other gaging stations. The flood-discharge data and associated information are listed in table 2.

Table 2. Peak and daily mean discharges for Woman Creek, flood of May 17, 1995[ft³/s, cubic feet per second; ±, plus or minus; ---, data unavailable]

Site identification	Peak discharge (ft ³ /s)	Daily mean discharge (ft ³ /s)	Remarks
GS05	238	21	Peak discharge by slope-area method (reliability: ±25 percent); daily mean discharge estimated using various methods ¹
GS06	78	10	Peak discharge by slope-area method (reliability: ±15 percent); daily mean discharge estimated using various methods ¹
GS16	32	6.3	Peak discharge by slope-area method (reliability: ±15 percent); daily mean discharge estimated using various methods ¹
SW029	380	93	Current-meter measurement of 203 ft ³ /s on recession; peak and daily mean discharge estimated by culvert-rating method (reliability: peak, ±25 percent; daily mean, ±15 percent)
GS02	14	8.8	Discharges computed from valid gage-height data
GS01	---	76	Daily mean discharge estimated using flood observations and hydrographic comparison

¹Estimation methods included rating-curve extension to the peak discharges, available gage-height data, hydrographic comparison, and other observed flood information.

Indirect methods are described in general by Benson and Dalrymple (1967); the slope-area method by Dalrymple and Benson (1967); and the culvert-rating method by Bodhaine (1968).

Water Quality

The USGS collected surface-water quality (chemical and suspended-sediment) data in water years 1994–95. A list of the analytes sampled by the

USGS is in table 3. Water temperature, specific conductance, and pH were measured by the USGS during sample collection; mean discharge for each sample was computed by the USGS from instantaneous-discharge data. All other chemical-quality samples collected by the USGS were sent to EG&G Rocky Flats, Incorporated for analysis. Analytical results for these samples were retrieved from the Site computer data base, maintained by EG&G Rocky Flats, Incorporated, for publication in this report. Analytical results are presented as retrieved from that data base, without modification by the USGS.

Table 3. Analytes for samples collected during water years 1994–95

[ICPES, Inductively coupled plasma emission spectroscopy; GFAA, Graphite furnace atomic absorption; CVAA, Cold vapor atomic absorption; ICPMS, Inductively coupled plasma mass spectroscopy]

Metals, total and dissolved		Radionuclides, total	Water-quality properties and constituents	Suspended sediment
By ICPES	By GFAA	Plutonium 239/240	Temperature	Concentration
Aluminum	Arsenic	Americium 241	Specific conductance	Sand-break fraction
Antimony	Lead	Uranium 233, 234	pH	
Arsenic	Selenium	Uranium 238	Alkalinity	
Barium	Silver	Uranium 235	Chloride	
Beryllium	Cadmium	Tritium	Fluoride	
Cadmium		Gross alpha	Sulfate	
Calcium	By CVAA	Gross beta	Nitrate/nitrite	
Chromium	Mercury		Total phosphorus	
Cobalt			Total suspended solids	
Copper	By ICPMS			
Iron	Arsenic			
Lead	Lead			
Lithium	Selenium			
Magnesium	Thallium			
Manganese	Tin			
Molybdenum	Cesium			
Nickel	Uranium (total)			
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Vanadium				
Zinc				

Suspended-sediment samples collected in water years 1994–95 were analyzed by the USGS for concentration. Some suspended-sediment samples also were analyzed for sand break (percent sand and percent silt/clay). Definitions of water-quality terms used in this report are provided in Appendix 2 (“Glossary”) at the back of this report.

Sample Collection

Some gaging stations were equipped with automatic samplers that collected composite water samples (that is, composite volumes of water pumped at discrete intervals) during a given period of flow. Following sample collection, USGS personnel retrieved the composite samples, reset the automatic sampler for subsequent sampling, and processed the chemical-quality and suspended-sediment samples. Chemical-quality samples were split from the composite samples. Suspended-sediment samples either were split from the composite samples (identified as automatic) or were collected manually from flow in the channel (identified as manual). Additional information concerning sampling methods used by the USGS at the Site is provided by Stevens and others (1975), Guy and Norman (1982), Wershaw and others (1987), Britton and Greeson (1989), Fishman and Friedman (1989), and EG&G Rocky Flats, Incorporated (1992).

Data Presentation

Analytical results retrieved from the Site data base for chemical-quality samples collected by the USGS in water year 1994 are listed in table 41, and results for chemical-quality samples collected by the USGS in water year 1995 are listed in table 42 in the “Surface-Water Data” section. Analytical results for suspended-sediment samples collected by the USGS in water year 1994 are listed in table 43, and results for suspended-sediment samples collected by the USGS in water year 1995 are listed in table 44 in the “Surface-Water Data” section.

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Surface-Water Data

DAILY MEAN DISCHARGE DATA

The following abbreviations are used in tables 4–40. An explanation of the information and data presented in these tables is in Appendix 1 (“Discharge-Data Collection and Computation”).

Lat is latitude;

long is longitude;

sec. is section;

T. is township;

R. is range;

mi² is square miles;

ft is feet;

ft³/s is cubic feet per second;

MAX is the maximum daily mean discharge for a given month;

MIN is the minimum daily mean discharge for a given month;

AC-FT is acre-foot;

--- is a symbol used in place of daily mean discharge for periods of missing record or periods prior to gaging-station activation.

Table 4.--Daily mean discharge, GS01 (Woman Creek at Indiana Street), water year 1994

WOMAN CREEK AT INDIANA ST.

SITE NUMBER.--GS01

STATION IDENTIFICATION.--395240105095500

LOCATION.--Lat 39°52'40", long 105°09'55", in NE¹/4NE¹/4 sec. 13, T. 2 S., R. 70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 100 feet upstream from Indiana Street.

DRAINAGE AREA.--2.16 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,622 ft above sea level.

REMARKS.--No estimated daily discharges. Records poor. Natural flow affected by Mower Ditch diversion, approximately ¹/₄ mile upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR 1994 (OCTOBER 1993 TO SEPTEMBER 1994)
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.10	.27	.00	.00	.00	.00
2	---	---	---	---	---	---	.09	.23	.00	.00	.00	.00
3	---	---	---	---	---	---	.08	.21	.00	.00	.00	.00
4	---	---	---	---	---	---	.07	.14	.00	.00	.00	.00
5	---	---	---	---	---	---	.11	.10	.00	.00	.00	.00
6	---	---	---	---	---	---	.11	.07	.00	.00	.00	.00
7	---	---	---	---	---	---	.08	.06	.00	.00	.00	.00
8	---	---	---	---	---	---	.06	.05	.00	.00	.00	.00
9	---	---	---	---	---	---	.10	.05	.00	.00	.00	.00
10	---	---	---	---	---	---	.16	.06	.00	.00	.00	.00
11	---	---	---	---	---	---	.17	.03	.00	.00	.00	.00
12	---	---	---	---	---	---	.50	.03	.00	.00	.00	.00
13	---	---	---	---	---	---	.73	.06	.00	.00	.00	.00
14	---	---	---	---	---	---	.20	.09	.00	.00	.00	.00
15	---	---	---	---	---	---	.13	.03	.00	.00	.00	.00
16	---	---	---	---	---	---	.10	.01	.00	.00	.00	.00
17	---	---	---	---	---	---	.09	.01	.00	.00	.00	.00
18	---	---	---	---	---	---	.07	.00	.00	.00	.00	.00
19	---	---	---	---	---	---	.06	.00	.00	.00	.00	.00
20	---	---	---	---	---	---	.05	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	.04	.00	.00	.00	.00	.00
22	---	---	---	---	---	---	.04	.00	.00	.00	.00	.00
23	---	---	---	---	---	---	.03	.00	.00	.00	.00	.00
24	---	---	---	---	---	---	.03	.00	.00	.00	.00	.00
25	---	---	---	---	---	---	.04	.22	.00	.00	.00	.00
26	---	---	---	---	---	.04	.10	.00	.00	.00	.00	.00
27	---	---	---	---	---	.05	.09	.00	.00	.00	.00	.00
28	---	---	---	---	---	.09	.12	.00	.00	.00	.00	.00
29	---	---	---	---	---	.11	.27	.00	.00	.00	.00	.00
30	---	---	---	---	---	.19	.35	.00	.00	.00	.00	.00
31	---	---	---	---	---	.13	---	.00	---	.00	.00	---
TOTAL	---	---	---	---	---	---	4.35	1.50	0.00	0.00	0.00	0.00
MEAN	---	---	---	---	---	---	.14	.048	.000	.000	.000	.000
MAX	---	---	---	---	---	---	.73	.27	.00	.00	.00	.00
MIN	---	---	---	---	---	---	.03	.00	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	8.6	3.0	.00	.00	.00	.00

Table 5.--Daily mean discharge, GS01 (Woman Creek at Indiana Street), water year 1995

WOMAN CREEK AT INDIANA ST.

SITE NUMBER.--GS01

STATION IDENTIFICATION.--395240105095500

LOCATION.--Lat 39°52'40", long 105°09'55", in NE¹/₄NE¹/₄ sec.13, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 100 feet upstream from Indiana Street.

DRAINAGE AREA.--2.16 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,622 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow affected by Mower Ditch diversion, approximately ¹/₄ mile upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.01	.05	.69	.68	.05	.20	.00
2	.00	.00	.00	.00	.00	.02	.04	.47	.53	.01	.01	.00
3	.00	.00	.00	.00	.00	.02	.04	.48	e11	.00	.01	.00
4	.00	.00	.00	.00	.00	.02	.04	.41	5.6	.00	.00	.00
5	.00	.00	.00	.00	.00	.02	.04	.32	4.1	.00	.00	.00
6	.00	.00	.00	.00	.00	.03	.03	.26	.80	.00	.00	.00
7	.00	.00	.00	.00	.00	.03	.03	.21	.30	.00	.00	.00
8	.00	.00	.00	.00	.00	.07	.03	.21	e3.9	.00	.00	.00
9	.00	.00	.00	.00	.00	.06	.03	.15	e37	.00	.00	.00
10	.00	.00	.00	.00	.00	.04	.05	.12	3.7	.00	.00	.00
11	.00	.00	.00	.00	.00	.03	.09	.13	2.1	.00	.00	.00
12	.00	.00	.00	.00	.00	.03	.25	.13	.69	.00	.00	.00
13	.00	.00	.00	.00	.00	.02	.16	.08	.27	.00	.00	.00
14	.00	.00	.00	.00	.02	.01	.10	.06	.15	.00	.00	.00
15	.00	.00	.00	.00	.03	.01	.07	.06	.09	.00	.00	.00
16	.00	.00	.00	.00	.01	.02	.07	.07	.05	.00	.00	.00
17	.00	.00	.00	.00	.04	.02	.16	e76	.08	.00	.00	.00
18	.00	.00	.00	.00	.04	.02	.19	e5.0	.11	.00	.00	.00
19	.00	.00	.00	.00	.02	.02	.43	e2.0	.03	.00	.00	.00
20	.00	.00	.00	.00	.02	.02	.29	e1.0	.01	.00	.00	.00
21	.00	.00	.00	.00	.02	.02	.29	e.50	.00	.00	.00	.00
22	.00	.00	.00	.00	.01	.01	.29	e.30	.00	.00	.00	.00
23	.00	.00	.00	.00	.01	.01	.24	e1.1	.00	.00	.00	.00
24	.00	.00	.00	.00	.01	.02	.40	e8.7	.00	.00	.00	.00
25	.00	.00	.00	.00	.01	.01	.42	2.0	.00	.00	.00	.00
26	.00	.00	.00	.00	.01	.02	e1.9	1.1	.00	.00	.00	.00
27	.00	.00	.00	.00	.01	.03	e6.0	e18	.00	.00	.00	.00
28	.00	.00	.00	.00	.01	.03	e1.6	e4.9	.04	.00	.00	.00
29	.00	.00	.00	.00	--	.05	e3.8	e9.6	.24	.00	.00	.00
30	.00	.00	.00	.00	--	.07	e2.5	e3.4	.09	.00	.00	.00
31	.00	--	.00	.00	--	.06	--	.91	--	.08	.00	--
TOTAL	0.00	0.00	0.00	0.00	0.27	0.85	19.63	138.36	71.56	0.14	0.22	0.00
MEAN	.000	.000	.000	.000	.010	.027	.65	4.46	2.39	.005	.007	.000
MAX	.00	.00	.00	.00	.04	.07	6.0	76	37	.08	.20	.00
MIN	.00	.00	.00	.00	.00	.01	.03	.06	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.5	1.7	39	274	142	.3	.4	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1994	1995	1994	1995	1994	1995	1994	1995	1994	1995
MEAN	.000	.000	.000	.000	.010	.027	.40	2.26	1.19	.002	.004	.000
MAX	.000	.000	.000	.000	.010	.027	.65	4.46	2.39	.005	.007	.000
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994
MIN	.000	.000	.000	.000	.010	.027	.14	.048	.000	.000	.000	.000
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR WATER YEAR 1995

WATER YEARS 1994 - 1995

ANNUAL TOTAL	231.03	
ANNUAL MEAN	.63	.63
HIGHEST ANNUAL MEAN		.63
LOWEST ANNUAL MEAN		.63
HIGHEST DAILY MEAN	76	76
LOWEST DAILY MEAN	a.00	a.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00
ANNUAL RUNOFF (AC-FT)	458	459
10 PERCENT EXCEEDS	.40	.21
50 PERCENT EXCEEDS	.00	.00
90 PERCENT EXCEEDS	.00	.00

a No flow many days
e Estimated

Table 6.--Daily mean discharge, GS02 (Mower Ditch at Indiana Street), water year 1994

MOWER DITCH AT INDIANA ST.

SITE NUMBER.--GS02

STATION IDENTIFICATION.--395253105095500

LOCATION.--Lat 39°52'53", long 105°09'55", in NE¹/₄NE¹/₄ sec. 13, T. 2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 150 feet upstream from Indiana Street.

DRAINAGE AREA.--1.66 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,678 ft above sea level.

REMARKS.--Records fair. Flow in Mower Ditch is diverted from Woman Creek, approximately ¹/₄ mile upstream from station GS01 (395240105095500).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.41	.89	.00	.00	.00	.00
2	---	---	---	---	---	---	.26	.67	.00	.00	.00	.00
3	---	---	---	---	---	---	.24	.70	.00	.00	.00	.00
4	---	---	---	---	---	---	.16	.46	.00	.00	.00	.00
5	---	---	---	---	---	---	.18	.43	.00	.00	.00	.00
6	---	---	---	---	---	---	.31	.49	.00	.00	.00	.00
7	---	---	---	---	---	---	.42	.40	.00	.00	.00	.00
8	---	---	---	---	---	---	.20	.29	.00	.00	.00	.00
9	---	---	---	---	---	---	.34	.28	.00	.00	.00	.00
10	---	---	---	---	---	---	1.2	.30	.00	.00	.00	.00
11	---	---	---	---	---	---	1.1	.17	.00	.00	.00	.00
12	---	---	---	---	---	---	1.5	.14	.00	.00	.00	.00
13	---	---	---	---	---	---	1.2	.15	.00	.00	.00	.00
14	---	---	---	---	---	---	.64	.27	.00	.00	.00	.00
15	---	---	---	---	---	---	.47	.12	.00	.00	.00	.00
16	---	---	---	---	---	---	.35	.09	.00	.00	.00	.00
17	---	---	---	---	---	.10	.27	.04	.00	.00	.00	.00
18	---	---	---	---	---	.07	.24	.01	.00	.00	.00	.00
19	---	---	---	---	---	.05	.19	.00	.00	.00	.00	.00
20	---	---	---	---	---	.04	.18	.00	.00	.00	.00	.00
21	---	---	---	---	---	.05	.17	.00	.00	.00	.00	.00
22	---	---	---	---	---	.04	.14	.00	.00	.00	.00	.00
23	---	---	---	---	---	.02	.14	.00	.00	.00	.00	.00
24	---	---	---	---	---	.00	.11	.00	.00	.00	.00	.00
25	---	---	---	---	---	.00	.37	.00	.00	.00	.00	.00
26	---	---	---	---	---	.01	.52	.01	.00	.00	.00	.00
27	---	---	---	---	---	.06	.47	.01	.00	.00	.00	.00
28	---	---	---	---	---	.09	.55	.00	.00	.00	.00	.00
29	---	---	---	---	---	.42	.82	.01	.00	.00	.00	.00
30	---	---	---	---	---	.42	1.4	.00	.00	.00	.00	.00
31	---	---	---	---	---	.64	---	.00	---	.00	.00	---
TOTAL	---	---	---	---	---	---	14.55	5.93	0.00	0.00	0.00	0.00
MEAN	---	---	---	---	---	---	.48	.19	.300	.000	.000	.000
MAX	---	---	---	---	---	---	1.5	.89	.00	.00	.00	.00
MIN	---	---	---	---	---	---	.11	.00	.00	.00	.00	.00
AC-F'T	---	---	---	---	---	---	.29	.12	.00	.00	.00	.00

Table 7.--Daily mean discharge, GS02 (Mower Ditch at Indiana Street), water year 1995

MOWER DITCH AT INDIANA ST.

SITE NUMBER.--GS02

STATION IDENTIFICATION.--395253105095500

LOCATION.--Lat 39°52'53", long 105°09'55", in NE¹/₄NE¹/₄ sec. 13, T. 2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 150 feet upstream from Indiana St.

DRAINAGE AREA.--1.66 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,678 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow in Mower Ditch diverted from Woman Creek, approximately ¹/₄ mile upstream from station GS01 (395240105095500).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.22	.00	.16	2.6	3.3	.19	e4.5	.00
2	.00	.00	.03	.00	.12	.01	.07	1.6	2.6	.09	e1.0	.00
3	.00	.00	.02	.00	.04	.03	.04	2.9	5.4	.04	e5.0	.00
4	.00	.00	.01	.00	.03	.07	.02	3.4	3.6	.02	.00	.00
5	.00	.00	.00	.00	.02	.03	.01	1.3	3.4	.01	.00	.00
6	.00	.00	.00	.00	.01	.05	.00	.60	1.2	.00	.00	.00
7	.00	.00	.00	.00	.01	.05	.00	.30	.46	.00	.00	.00
8	.00	.00	.00	.00	.01	.06	.00	.32	3.3	.00	.00	.00
9	.00	.00	.00	.02	.01	.20	.00	.30	8.2	.00	.00	.00
10	.00	.00	.00	.08	.00	.22	.03	.17	3.4	.00	.00	.00
11	.00	.00	.00	.07	.00	.07	.10	.12	2.5	.00	.00	.00
12	.00	.00	.00	.02	.00	.03	.58	.13	.98	.00	.00	.00
13	.00	.00	.00	.01	.00	.00	.70	.06	.39	.00	.00	.00
14	.00	.00	.00	.01	.07	.00	.21	.05	.29	.00	.00	.00
15	.00	.01	.00	.01	.19	.00	.09	.05	.18	.00	.00	.00
16	.00	.02	.00	.01	.15	.00	.06	.04	.10	.00	.00	.00
17	.00	.03	.00	.00	.13	.00	.53	8.8	.12	.00	.00	.00
18	.00	.00	.00	.00	.32	.02	.78	6.8	.26	.00	.00	.00
19	.00	.00	.00	.00	.29	.00	2.6	4.7	.09	.00	.00	.00
20	.00	.02	.00	.00	.16	.00	3.1	3.1	.05	.00	.00	.00
21	.00	.02	.00	.00	.09	.00	2.9	2.0	.02	.00	.00	.00
22	.00	.01	.00	.00	.08	.00	4.6	.87	.02	.00	.00	.00
23	.00	.02	.00	.00	.07	.00	4.3	3.9	.01	.00	.00	.00
24	.00	.03	.01	.00	.03	.00	5.4	7.8	.03	.00	.00	.00
25	.00	.04	.02	.00	.02	.00	3.8	5.1	.02	.00	.00	.00
26	.00	.04	.02	.00	.01	.00	6.5	4.3	.00	.00	.00	.00
27	.00	.01	.02	.01	.00	.01	e6.7	8.7	.00	.00	.00	.00
28	.00	.00	.01	.01	.01	.05	5.1	6.2	.03	.00	.00	.00
29	.00	.00	.01	.02	---	.09	e6.9	8.0	1.3	1.5	.00	.00
30	.00	.00	.01	.03	---	.09	6.5	6.3	.37	8.1	.00	.00
31	.00	---	.00	.06	---	.19	---	4.1	---	6.5	.00	---
TOTAL	0.00	0.25	0.16	0.36	2.09	1.27	61.78	94.61	41.62	16.45	6.00	0.00
MEAN	.000	.008	.005	.012	.075	.041	2.06	3.05	1.39	.53	.19	.000
MAX	.00	.04	.03	.08	.32	.22	6.9	8.8	8.2	8.1	4.5	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00
AC-FT	.00	.5	.3	.7	4.1	2.5	123	188	83	33	12	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	.000	.008	.005	.012	.075	.041	1.27	1.62	.69	.27	.097	.000
MAX	.000	.008	.005	.012	.075	.041	2.06	3.05	1.39	.53	.19	.000
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994
MIN	.000	.008	.005	.012	.075	.041	.48	.19	.000	.000	.000	.000
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	224.59	
ANNUAL MEAN	.62	.62
HIGHEST ANNUAL MEAN		.62
LOWEST ANNUAL MEAN		.62
HIGHEST DAILY MEAN	8.8	8.8
LOWEST DAILY MEAN	a.00	a.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00
ANNUAL RUNOFF (AC-FT)	445	446
10 PERCENT EXCEEDS	2.7	.80
50 PERCENT EXCEEDS	.00	.00
90 PERCENT EXCEEDS	.00	.00

a No flow many days

e Estimated

Table 8.--Daily mean discharge, GS03 (Walnut Creek at Indiana Street), water year 1994

WALNUT CREEK AT INDIANA ST.

SITE NUMBER.--GS03

STATION IDENTIFICATION.--395407105095900

LOCATION.--Lat 39°54'07", long 105°09'59", in SE¹/₄SE¹/₄ sec.1, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 300 feet upstream from Indiana Street.

DRAINAGE AREA.--2.70 mi², of which 0.91 mi² is noncontributing.

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and parallel Parshall flumes. Elevation of gage is 5,635 ft above sea level.

REMARKS.--Records poor. No flow data collected by USGS April 19 to May 13; records for this period published by Rocky Mountain Remediation Services, L.L.C. (1995). Most flow in lower Walnut Creek drainage regulated by the A-Series ponds.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	1.8	---	.01	.01	.05	e.00
2	---	---	---	---	---	---	1.8	---	.01	.01	e.00	e.00
3	---	---	---	---	---	---	1.8	---	.01	.01	e.00	e.00
4	---	---	---	---	---	---	1.9	---	.01	.01	e.00	e.00
5	---	---	---	---	---	---	2.0	---	.00	.00	e.00	e.00
6	---	---	---	---	---	---	2.0	---	.00	.00	e.00	e.00
7	---	---	---	---	---	---	1.9	---	.00	.00	e.00	e.05
8	---	---	---	---	---	---	1.7	---	.00	.01	e.00	e1.6
9	---	---	---	---	---	---	1.8	---	.00	.00	e.00	e1.6
10	---	---	---	---	---	---	2.0	---	.00	.00	e.00	1.4
11	---	---	---	---	---	---	2.3	---	.00	.00	e.00	1.4
12	---	---	---	---	---	---	2.6	---	.00	.00	e.00	1.4
13	---	---	---	---	---	---	2.3	---	.00	.00	e.00	1.4
14	---	---	---	---	---	---	.41	e1.5	.00	.00	e.00	1.5
15	---	---	---	---	---	---	.20	e1.7	.00	.00	e.00	1.5
16	---	---	---	---	---	.01	.12	e1.7	.00	.00	e.00	1.1
17	---	---	---	---	---	.01	.07	e1.7	.00	.00	e.00	.03
18	---	---	---	---	---	.00	.10	e1.7	.49	.00	e.00	.00
19	---	---	---	---	---	.00	---	1.8	1.5	.00	e.00	.00
20	---	---	---	---	---	.00	---	1.0	1.5	.00	e.00	.00
21	---	---	---	---	---	.00	---	.04	1.5	.00	e.00	.00
22	---	---	---	---	---	.00	---	.02	1.5	.00	e.00	.00
23	---	---	---	---	---	1.1	---	.02	1.6	.37	e.00	.00
24	---	---	---	---	---	2.9	---	.01	1.6	1.5	e.00	.00
25	---	---	---	---	---	1.8	---	.01	1.6	1.6	e.00	.00
26	---	---	---	---	---	1.8	---	.01	1.7	1.6	e.00	.00
27	---	---	---	---	---	1.9	---	.01	.98	1.7	e.00	.00
28	---	---	---	---	---	1.8	---	.01	.02	1.7	e.00	.00
29	---	---	---	---	---	1.9	---	.01	.01	1.6	e.00	.00
30	---	---	---	---	---	1.9	---	.01	.01	1.6	e.00	.00
31	---	---	---	---	---	1.9	---	.01	---	1.3	e.00	---
TOTAL	---	---	---	---	---	---	---	---	14.05	13.02	0.05	12.98
MEAN	---	---	---	---	---	---	---	---	.47	.42	.002	.43
MAX	---	---	---	---	---	---	---	---	1.7	1.7	.05	1.6
MIN	---	---	---	---	---	---	---	---	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	---	28	26	.1	26

e Estimated

Table 9.--Daily mean discharge, GS03 (Walnut Creek at Indiana Street), water year 1995

WALNUT CREEK AT INDIANA ST.

SITE NUMBER.--GS03

STATION IDENTIFICATION.--395407105095900

LOCATION.--Lat 39°54'07", long 105°09'59", in SE¹/₄SE¹/₄ sec.1, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 300 feet upstream from Indiana Street.

DRAINAGE AREA.--2.70 mi², of which 0.91 mi² is noncontributing.

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and parallel Parshall flumes. Elevation of gage is 5,635 ft above sea level.

REMARKS.--Records poor. Most flow in lower Walnut Creek drainage regulated by the A-Series ponds.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.07	.00	.55	e.00	.01	.01	9.6	9.8	.02	.00	.00
2	.00	.05	.00	.02	.00	.01	.01	14	8.7	.02	2.0	.00
3	.00	.06	.00	.11	.00	.02	.01	18	7.7	.02	2.5	.00
4	.00	.05	.00	.02	.00	.01	.01	18	6.7	.02	2.5	.00
5	.00	.05	.00	e.01	.00	.01	.01	16	6.1	.02	2.1	.00
6	.02	.04	.00	e.01	.00	.01	.01	16	6.2	.02	2.2	.00
7	.00	.03	.00	e.01	.00	.01	.01	16	6.2	.02	2.1	.00
8	.00	.00	.00	e.01	.83	.01	.01	16	6.2	.02	1.7	.00
9	.00	.00	e.00	e.01	2.0	.00	.01	17	6.2	.02	1.7	.00
10	.00	.00	e.00	e.01	2.0	.77	.01	17	6.2	.02	1.6	.00
11	e.00	.00	e.50	e.01	1.9	1.6	.01	17	6.2	.01	1.4	.00
12	e.00	.00	e2.1	e.01	1.7	1.4	.01	17	e5.0	.00	1.1	.00
13	e.00	.01	e2.1	e.01	1.5	1.3	.01	17	e4.0	.00	.76	.00
14	e.00	.04	e2.0	e.01	.08	1.3	.82	17	e4.0	.01	.02	.00
15	e.00	.04	e1.9	e.01	.04	1.1	1.8	17	e4.0	.00	.01	1.8
16	e.00	.04	2.1	e.01	.03	.98	1.7	19	e2.0	.00	.00	3.0
17	e.00	.02	2.2	e.01	.03	.66	1.5	e60	.05	.00	.00	2.7
18	e.00	.00	2.2	e.01	.03	.03	1.3	12	.05	.00	.00	2.5
19	e.00	.00	1.6	e.01	.03	.01	2.9	12	.05	.00	.01	2.4
20	e.00	.01	1.6	e.01	.02	.01	2.9	12	.05	.01	.01	2.2
21	e.00	.00	1.5	e.01	.02	.01	2.3	12	.04	.00	.01	2.3
22	.31	.00	.84	e.01	.02	.01	3.0	12	.04	.00	.01	2.0
23	1.5	.00	.06	e.01	.02	.01	2.3	12	.03	.00	.01	1.6
24	1.7	.00	.04	e.01	.02	.01	3.1	12	.03	.00	.01	1.6
25	2.0	.00	.03	e.00	.02	.01	1.4	12	.02	.00	.01	1.3
26	2.4	.00	.03	e.00	.02	.01	7.2	12	.02	.00	.01	1.2
27	2.3	.04	.03	e.00	.01	.01	11	12	.02	.00	.00	.77
28	2.1	.00	.03	e.00	.01	.01	11	12	.02	.00	.00	.01
29	2.1	.00	.03	e.00	---	.01	17	12	.02	.00	.00	.00
30	2.1	.00	.03	e.00	---	.01	14	12	.02	.00	.00	.00
31	1.4	---	.62	e.00	---	.01	---	11	---	.00	.00	---
TOTAL	17.93	0.55	21.54	0.90	10.33	9.36	85.35	488.6	95.66	0.23	21.77	25.38
MEAN	.58	.018	.69	.029	.37	.30	2.84	15.8	3.19	.007	.70	.85
MAX	2.4	.07	2.2	.55	2.0	1.6	17	60	9.8	.02	2.5	3.0
MIN	.00	.00	.00	.00	.00	.00	.01	9.6	.02	.00	.00	.00
AC-FT	36	1.1	43	1.8	20	19	169	969	190	.5	43	50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	MEAN	.58	.018	.69	.029	.37	.30	1.87	8.06	1.83	.21	.35	.64
MAX	.58	.018	.69	.029	.37	.30	2.84	15.8	3.19	.42	.70	.85	
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1995	1995	
MIN	.58	.018	.69	.029	.37	.30	.89	.36	.47	.007	.002	.43	
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1995	1994	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	777.60		
ANNUAL MEAN	2.13		
HIGHEST ANNUAL MEAN		2.13	1995
LOWEST ANNUAL MEAN		2.13	1995
HIGHEST DAILY MEAN	60	May 17	1995
LOWEST DAILY MEAN	a.00	Oct 1	1994
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 7	1994
ANNUAL RUNOFF (AC-FT)	1540		
10 PERCENT EXCEEDS	9.1		2.9
50 PERCENT EXCEEDS	.02		.01
90 PERCENT EXCEEDS	.00		.00

a No flow many days
e Estimated

Table 10.--Daily mean discharge, GS05 (North Woman Creek at West Buffer Zone Fence Line), water year 1994

NORTH WOMAN CREEK AT WEST BUFFER ZONE FENCE LINE

SITE NUMBER.--GS05

STATION IDENTIFICATION.--395306105131700

LOCATION.--Lat 39°53'06", long 105°13'17", in NW¹/₄NW¹/₄ sec.15, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, about 200 feet downstream from west Site fence line.

DRAINAGE AREA.--0.20 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,039 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.12	.54	.07	.00	.05	.00
2	---	---	---	---	---	---	.10	.73	.07	.00	.00	.00
3	---	---	---	---	---	---	.07	.52	.10	.00	.00	.00
4	---	---	---	---	---	---	.06	.46	.08	.00	.01	.00
5	---	---	---	---	---	---	.11	.37	.06	.00	.01	.00
6	---	---	---	---	---	---	.17	.31	.07	.00	.01	.00
7	---	---	---	---	---	---	.10	.26	.08	.00	.00	.00
8	---	---	---	---	---	---	.05	.22	.10	.00	.01	.00
9	---	---	---	---	---	---	.09	.22	.19	.00	.01	.00
10	---	---	---	---	---	---	.27	.23	.26	.00	.03	.00
11	---	---	---	---	---	---	.31	.18	.29	.00	.03	.00
12	---	---	---	---	---	---	1.3	.15	.24	.00	.02	.00
13	---	---	---	---	---	---	.57	.17	.22	.00	.02	.00
14	---	---	---	---	---	---	.34	.14	.21	.00	.02	.00
15	---	---	---	---	---	---	.26	.07	.22	.00	.00	.00
16	---	---	---	---	---	---	.20	.05	.26	.00	.00	.00
17	---	---	---	---	---	---	.19	.03	.28	.00	.00	.00
18	---	---	---	---	---	---	.18	.03	.27	.00	.00	.00
19	---	---	---	---	---	---	.19	.03	.15	.00	.00	.00
20	---	---	---	---	---	---	.17	.04	.07	.00	.00	.00
21	---	---	---	---	---	---	.14	.13	.01	.00	.00	.00
22	---	---	---	---	---	.29	.14	.13	.00	.00	.00	.00
23	---	---	---	---	---	.22	.13	.11	.00	.00	.00	.00
24	---	---	---	---	---	.21	.09	.14	.01	.00	.00	.00
25	---	---	---	---	---	.18	.32	.14	.00	.02	.00	.00
26	---	---	---	---	---	.16	.22	.10	.00	.04	.00	.00
27	---	---	---	---	---	.16	.31	.09	.00	.06	.00	.00
28	---	---	---	---	---	.22	.32	.10	.00	.06	.00	.00
29	---	---	---	---	---	.25	.69	.03	.00	.07	.00	.00
30	---	---	---	---	---	.33	1.4	.03	.00	.09	.00	.00
31	---	---	---	---	---	.21	---	.06	---	.08	.00	---
TOTAL	---	---	---	---	---	---	8.61	5.81	3.31	0.42	0.22	0.00
MEAN	---	---	---	---	---	---	.29	.19	.11	.014	.007	.000
MAX	---	---	---	---	---	---	1.4	.73	.29	.09	.05	.00
MIN	---	---	---	---	---	---	.05	.03	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	17	12	6.6	.8	.4	.00

Table 11.--Daily mean discharge, GS05 (North Woman Creek at West Buffer Zone Fence Line), water year 1995

NORTH WOMAN CREEK AT WEST BUFFER ZONE FENCE LINE

SITE NUMBER.--GS05

STATION IDENTIFICATION.--395306105131700

LOCATION.--Lat 39°53'06", long 105°13'17", in NW¹/4NW¹/4 sec.15, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, about 200 feet downstream from west Site fence line.

DRAINAGE AREA.--0.20 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,039 ft above sea level.

REMARKS.--Records fair except for Apr 27, 29 and estimated daily discharges, which are poor.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.00	e.05	e.01	.07	.00	.01	1.2	.84	.10	1.4	.07
2	.01	.01	e.04	e.00	.02	.00	.01	1.1	.91	.06	.06	.08
3	.01	.02	e.03	e.00	.02	.01	.01	1.7	2.1	.04	.05	.07
4	.02	.03	e.02	e.00	.01	.01	.01	1.3	1.6	.04	.05	.06
5	.02	.04	e.02	e.00	.01	.01	.00	.59	1.0	.04	.04	.03
6	.01	.02	e.02	e.01	.01	.02	.00	.42	.36	.04	.03	.03
7	.01	.01	e.02	e.01	.02	.01	.00	.32	.30	.09	.02	.03
8	.02	.03	e.02	e.03	.01	.03	.00	.35	2.8	.11	.02	.03
9	.00	.06	e.02	e.05	.01	.05	.00	.26	4.8	.10	.02	.02
10	.01	.04	e.02	e.04	e.01	.02	.03	.21	1.2	.07	.02	.02
11	.01	.04	e.02	e.04	e.01	.01	.07	.21	.78	.04	.01	.02
12	.01	.04	e.02	e.03	e.02	.00	.19	.19	.42	.04	.02	.01
13	.01	.04	e.01	e.04	e.04	.00	.06	.12	.30	.11	.01	.01
14	.01	.08	e.01	e.04	e.09	.00	.02	.18	.21	.11	.02	.01
15	.02	.18	e.00	e.03	e.05	.00	.02	.13	.16	.04	.02	.01
16	.02	.06	e.00	e.03	e.08	.00	.03	.27	.12	.04	.00	.01
17	.07	.05	e.01	e.02	e.13	.01	.29	e21	.17	.02	.00	.01
18	.02	.02	e.01	e.01	e.09	e.01	.44	2.0	.20	.02	.00	.02
19	.01	.00	e.02	e.01	e.06	e.02	1.4	.62	.09	.05	.02	.03
20	.01	.02	e.02	e.02	e.03	e.02	1.2	.68	.06	.03	.01	.04
21	.01	.04	e.03	e.01	e.01	e.01	1.8	.47	.07	.02	.01	.05
22	.01	e.02	e.04	e.00	e.01	.00	2.9	.40	.06	.01	.00	.05
23	.02	e.02	e.03	e.01	.01	.00	2.5	1.7	.07	.01	.00	.02
24	.02	e.02	e.04	e.01	.01	.00	3.1	1.4	.09	.02	.00	.01
25	.01	e.02	e.05	e.02	.01	.00	2.2	1.1	.06	.02	.00	.01
26	.01	e.02	e.04	e.03	.00	.00	3.0	1.0	.05	.05	.00	.01
27	.00	e.02	e.04	e.04	.00	.00	4.1	2.2	.05	.08	.00	.01
28	.00	e.02	e.03	e.03	.00	.01	2.6	1.7	.11	.11	.00	.01
29	.00	e.50	e.02	e.04	---	.01	3.6	1.4	.42	2.2	.00	.01
30	.01	e.10	e.02	e.02	---	.04	3.3	1.5	.16	3.5	e.04	.03
31	.00	---	e.01	e.08	---	.03	---	1.5	---	3.5	.07	---
TOTAL	0.42	1.57	0.73	0.71	0.84	0.33	32.89	47.22	19.56	10.71	1.94	0.82
MEAN	.014	.052	.024	.023	.030	.011	1.10	1.52	.65	.35	.063	.027
MAX	.07	.50	.05	.08	.13	.05	4.1	21	4.8	3.5	1.4	.08
MIN	.00	.00	.00	.00	.00	.00	.00	.12	.05	.01	.00	.01
AC-FT	.8	3.1	1.4	1.4	1.7	.7	65	94	39	21	3.8	1.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	.014	.052	.024	.023	.030	.011	.69	.86	.38	.18	.035	.014
MAX	.014	.052	.024	.023	.030	.011	1.10	1.52	.65	.35	.063	.027
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	.014	.052	.024	.023	.030	.011	.29	.19	.11	.014	.007	.000
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	117.74		
ANNUAL MEAN	.32		.32
HIGHEST ANNUAL MEAN			.32
LOWEST ANNUAL MEAN			.32
HIGHEST DAILY MEAN	21	May 17	21
LOWEST DAILY MEAN	a.00	Oct 9	a.00
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 22	.00
ANNUAL RUNOFF (AC-FT)	234		234
10 PERCENT EXCEEDS	1.0		.42
50 PERCENT EXCEEDS	.02		.03
90 PERCENT EXCEEDS	.00		.00

e Estimated

a No flow many days

Table 12.--Daily mean discharge, GS06 (South Woman Creek at West Buffer Zone Fence Line), water year 1994

SOUTH WOMAN CREEK AT WEST BUFFER ZONE FENCE LINE

SITE NUMBER.--GS06

STATION IDENTIFICATION.--395253105131700

LOCATION.--Lat 39°52'53", long 105°13'17", in SW¹/₄NW¹/₄ sec.15, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, about 400 feet downstream from the west Site fence line.

DRAINAGE AREA.--0.28 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,063 ft above sea level.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.01	.07	.00	.00	.00	.00
2	---	---	---	---	---	---	.01	.08	.00	.01	.00	.00
3	---	---	---	---	---	---	.01	.06	.00	.01	.00	.00
4	---	---	---	---	---	---	.01	.05	.00	.01	.00	.00
5	---	---	---	---	---	---	.02	.04	.00	.01	.00	.00
6	---	---	---	---	---	---	.02	.03	.00	.01	.00	.00
7	---	---	---	---	---	---	.01	.03	.00	.01	.00	.00
8	---	---	---	---	---	---	.01	.02	.00	.01	.00	.00
9	---	---	---	---	---	---	.01	.03	.00	.01	.00	.00
10	---	---	---	---	---	---	.02	.03	.00	.00	.01	.00
11	---	---	---	---	---	---	.02	.02	.00	.00	.00	.00
12	---	---	---	---	---	---	.10	.02	.02	.00	.00	.00
13	---	---	---	---	---	---	.07	.04	.01	.00	.00	.00
14	---	---	---	---	---	---	.04	.03	.01	.00	.00	.00
15	---	---	---	---	---	---	.02	.02	.01	.01	.00	.00
16	---	---	---	---	---	---	.01	.02	.01	.01	.00	.00
17	---	---	---	---	---	---	.01	.02	.01	.00	.00	.00
18	---	---	---	---	---	---	.01	.02	.01	.00	.00	.00
19	---	---	---	---	---	---	.01	.02	.01	.00	.00	.00
20	---	---	---	---	---	---	.00	.01	.01	.00	.00	.00
21	---	---	---	---	---	---	.00	.01	.02	.00	.00	.00
22	---	---	---	---	---	---	.00	.01	.02	.00	.00	.00
23	---	---	---	---	---	---	.00	.01	.03	.00	.00	.00
24	---	---	---	---	---	---	.00	.01	.01	.00	.00	.00
25	---	---	---	---	---	---	.02	.01	.01	.00	.00	.00
26	---	---	---	---	---	---	.02	.01	.01	.00	.00	.00
27	---	---	---	---	---	---	.03	.01	.01	.00	.00	.00
28	---	---	---	---	---	---	.04	.01	.01	.00	.00	.00
29	---	---	---	---	---	---	.09	.01	.01	.00	.00	.00
30	---	---	---	---	---	---	.11	.00	.01	.00	.00	.00
31	---	---	---	---	---	.01	---	.00	---	.00	.00	---
TOTAL	---	---	---	---	---	---	0.73	0.75	0.24	0.10	0.01	0.00
MEAN	---	---	---	---	---	---	.024	.024	.008	.003	.000	.000
MAX	---	---	---	---	---	---	.11	.08	.03	.01	.01	.00
MIN	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	1.4	1.5	.5	.2	.02	.00

Table 13.--Daily mean discharge, GS06 (South Woman Creek at West Buffer Zone Fence Line), water year 1995

SOUTH WOMAN CREEK AT WEST BUFFER ZONE FENCE LINE

SITE NUMBER.--GS06

STATION IDENTIFICATION.--395253105131700

LOCATION.--Lat 39°52'53", long 105°13'17", in SW¹/₄NW¹/₄ sec.15, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, about 400 feet downstream from the west Site fence line.

DRAINAGE AREA.--0.28 mi².

PERIOD OF RECORD.--March 1994 to December 1994. March 1995 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,063 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station discontinued December 22, 1994, to March 12, 1995.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e.00	---	---	---	.00	.24	.16	.05	.03	.00
2	.00	.00	e.00	---	---	---	.00	.14	.20	.04	.03	.00
3	.00	e.01	e.00	---	---	---	.00	.17	.35	.04	.03	.00
4	.00	e.01	e.00	---	---	---	.00	.15	.35	.04	.03	.00
5	.00	e.01	e.00	---	---	---	.00	.07	.19	.03	.03	.00
6	.00	e.01	e.00	---	---	---	.00	.05	.12	.03	.03	.00
7	.00	e.01	e.00	---	---	---	.00	.03	.10	.03	.02	.00
8	.00	e.01	e.00	---	---	---	.00	.03	.43	.03	.00	.00
9	.00	e.01	e.00	---	---	---	.00	.02	.99	.03	.00	.00
10	.00	e.01	e.00	---	---	---	.02	.02	.23	.03	.00	.00
11	.00	e.01	e.00	---	---	---	.00	.02	.14	.03	.00	.00
12	.00	e.01	e.00	---	---	---	.01	.02	.10	.03	.00	.00
13	.00	e.01	e.00	---	---	.00	.00	.01	.08	.04	.00	.00
14	.00	e.01	e.00	---	---	.00	.00	.01	.07	.05	.00	.00
15	.01	.00	e.00	---	---	.00	.00	.01	.06	.05	.00	.00
16	e.01	.00	e.00	---	---	.00	.00	.02	.05	.05	.00	.00
17	.00	e.01	e.00	---	---	.00	.01	e10	.06	.05	.00	.00
18	.00	e.01	e.00	---	---	.00	.02	.29	.05	.06	.01	.00
19	.00	e.00	e.00	---	---	.00	.13	.11	.04	.07	.01	.00
20	.00	e.00	e.00	---	---	.00	.06	.07	.03	.06	.01	.00
21	.00	e.00	e.00	---	---	.00	.14	.05	.03	.05	.00	.00
22	.00	e.00	---	---	---	.00	.28	.05	.03	.04	.00	.00
23	.00	e.00	---	---	---	.00	.27	.27	.03	.04	.00	.00
24	.00	e.00	---	---	---	.00	.46	.56	.04	.04	.00	.00
25	.00	e.00	---	---	---	.00	.24	.29	.03	.03	.00	.00
26	.00	e.00	---	---	---	.00	.71	.28	.03	.03	.00	.00
27	.00	e.00	---	---	---	.00	.82	e.99	.02	.03	.00	.00
28	.00	e.00	---	---	---	.00	.37	e.64	.05	.03	.00	.00
29	.00	e.00	---	---	---	.00	.75	.74	.10	.03	.00	.00
30	.00	e.00	---	---	---	.02	.88	.47	.05	.03	.00	.00
31	.00	---	---	---	---	.13	---	.26	---	.04	.00	---
TOTAL	0.02	0.14	---	---	---	---	5.17	16.08	4.21	1.23	0.23	0.00
MEAN	.001	.005	---	---	---	---	.17	.52	.14	.040	.007	.000
MAX	.01	.01	---	---	---	---	.88	.10	.99	.07	.03	.00
MIN	.00	.00	---	---	---	---	.00	.01	.02	.03	.00	.00
AC-PT	.04	.3	---	---	---	---	.10	.32	8.4	2.4	.5	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	.001	.005	---	---	---	---	.098	.27	.074	.021	.004	.000
MAX	.001	.005	---	---	---	---	.17	.52	.14	.040	.007	.000
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994
MIN	.001	.005	---	---	---	---	.024	.024	.008	.003	.000	.000
(WY)	1995	1995	---	---	---	---	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

WATER YEARS 1994 - 1995

HIGHEST DAILY MEAN	10	May 17 1995
LOWEST DAILY MEAN	a.00	Apr 20 1994
ANNUAL SEVEN-DAY MINIMUM	.00	May 30 1994
10 PERCENT EXCEEDS	.07	
50 PERCENT EXCEEDS	.00	
90 PERCENT EXCEEDS	.00	

a No flow many days
e Estimated

Table 14.--Daily mean discharge, GS09 (South Walnut Creek Below Pond A-4), water year 1994

SOUTH WALNUT CREEK BELOW POND B-4

SITE NUMBER.--GS09

STATION IDENTIFICATION.--395342105110800

LOCATION.--Lat 39°53'42", long 105°11'08", in SE¹/₄NE¹/₄ sec.11, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, just downstream from Pond B-4 dam.

DRAINAGE AREA.--0.33 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and rectangular weir. Elevation of gage is 5,820 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow is regulated by B-Series ponds.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.36	.58	.35	.17	.16	.15
2	---	---	---	---	---	---	.55	.61	.40	.01	.02	.29
3	---	---	---	---	---	---	.29	.41	.69	.21	.26	.11
4	---	---	---	---	---	---	.30	.45	.06	.12	.37	.14
5	---	---	---	---	---	---	.52	.59	.21	.30	.04	.15
6	---	---	---	---	---	---	.38	.55	.29	.23	.06	.31
7	---	---	---	---	---	---	.51	.20	.40	.00	.06	.22
8	---	---	---	---	---	---	.34	.14	.25	.28	.17	.50
9	---	---	---	---	---	---	.58	.30	.15	.14	.20	.10
10	---	---	---	---	---	---	1.2	.50	.23	.12	.94	.09
11	---	---	---	---	---	---	.70	.39	.13	.21	1.1	.07
12	---	---	---	---	---	---	1.0	.32	.16	.15	.45	.39
13	---	---	---	---	---	---	.49	e1.8	.24	.25	.06	.08
14	---	---	---	---	---	---	.47	e.40	.22	.41	.15	.19
15	---	---	---	---	---	---	.45	e.36	.11	.02	.17	.19
16	---	---	---	---	---	.29	.41	e.36	.41	.09	.18	.48
17	---	---	---	---	---	.52	.35	.31	.14	.10	.30	.13
18	---	---	---	---	---	.23	.37	.45	.07	.20	.29	.11
19	---	---	---	---	---	.28	.45	.39	.15	.20	.06	.21
20	---	---	---	---	---	.24	.13	.60	.24	.21	.24	.22
21	---	---	---	---	---	.23	.64	.36	.39	.18	.20	.40
22	---	---	---	---	---	.08	.19	.34	.36	.19	e.20	.45
23	---	---	---	---	---	.28	.20	.53	.25	.19	e.20	.23
24	---	---	---	---	---	.48	.27	.57	.23	.18	.15	.20
25	---	---	---	---	---	.23	1.5	.28	.16	.18	.26	.37
26	---	---	---	---	---	.25	.45	.45	.16	.20	.17	.34
27	---	---	---	---	---	.42	.60	.19	.15	.05	.10	.40
28	---	---	---	---	---	.38	.46	.21	.08	.22	.21	.30
29	---	---	---	---	---	.81	1.3	.08	.18	.22	.17	.13
30	---	---	---	---	---	.53	.66	.22	.21	.23	.12	.18
31	---	---	---	---	---	.34	---	.58	---	.10	.46	---
TOTAL	---	---	---	---	---	---	16.12	13.52	7.07	5.36	7.52	7.13
MEAN	---	---	---	---	---	---	.54	.44	.24	.17	.24	.24
MAX	---	---	---	---	---	---	1.5	1.8	.69	.41	1.1	.50
MIN	---	---	---	---	---	---	.13	.08	.05	.00	.02	.07
AC-FT	---	---	---	---	---	---	32	27	14	11	15	14

e Estimated

Table 15.--Daily mean discharge, GS09 (South Walnut Creek Below Pond A-4), water year 1995

SOUTH WALNUT CREEK BELOW POND B-4

SITE NUMBER.--GS09

STATION IDENTIFICATION.--395342105110800

LOCATION.--Lat 39°53'42", long 105°11'08", in SE¹/₄NE¹/₄ sec.11, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, just downstream from Pond B-4 dam.

DRAINAGE AREA.--0.33 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and rectangular weir. Elevation of gage is 5,820 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow is regulated by B-Series ponds.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.49	e.20	.07	.18	.20	e.09	.87	.66	.50	.33	.34
2	.32	.17	.08	.12	.29	.13	.16	.50	.65	.27	.75	.08
3	.41	.21	.09	.19	.10	.27	.40	.94	1.2	.90	.31	.19
4	.10	.33	.09	.21	.02	.21	.04	.69	.66	.22	.17	.17
5	.28	.21	.16	.13	.16	.23	.20	.26	.75	.47	.11	.67
6	.23	e.21	.20	.08	.36	.52	.14	e.37	.45	.20	.27	.32
7	.37	.41	.30	.01	.07	.08	.13	.09	.44	.49	.32	.46
8	.09	.61	.16	.09	.18	.23	.17	.66	1.6	.12	.21	.22
9	.20	.30	.21	.11	.21	.28	.26	.47	2.6	.10	.40	.11
10	.18	.31	.05	.24	.04	.21	.48	e.19	.77	.42	.15	.21
11	.19	.26	.00	.17	.18	.27	.50	e.10	.61	.38	.05	.17
12	.26	e.25	.14	.17	.18	.24	.52	.18	.80	.30	.24	.19
13	.39	.24	.20	.17	.14	.39	.26	e.20	.66	.59	.10	.34
14	.24	.63	.13	.11	.13	.25	.26	.26	.29	.09	.33	.06
15	.26	e.18	.15	.21	.36	.19	.28	e.44	.81	.11	.13	.28
16	.07	.18	.12	.14	.22	.13	.35	1.1	.37	.43	.27	.23
17	.63	.24	.21	.20	.14	.22	1.2	e14	.44	.20	.17	.11
18	.28	.34	e.15	.13	.26	.18	1.4	.82	.43	.50	.40	.57
19	.36	.10	.09	.21	.08	.36	1.9	1.0	.81	.57	.20	.23
20	.35	.05	.26	.11	.35	.19	.87	.29	.19	.31	.03	.45
21	.25	.21	.10	.09	.23	e.17	2.1	.24	.60	.32	.37	.65
22	.24	.19	.07	.04	.26	.22	.78	.64	.17	.34	.39	.30
23	.19	.19	.12	.14	.35	e.17	.55	1.7	.74	.24	.31	.41
24	.25	.13	.09	.16	.13	e.24	.78	1.5	.25	.03	.42	.48
25	.24	.13	.05	.35	.11	.01	1.4	.57	.17	.78	.21	.19
26	e.24	.07	.16	.14	.09	.12	3.1	1.1	.59	.22	.07	.35
27	e.24	.09	.27	.29	.33	e.18	.83	2.1	.09	.03	.49	.40
28	.18	.11	.03	.01	.31	.35	1.3	2.5	1.4	.24	.20	.26
29	.17	.22	.03	.10	---	.27	1.9	.89	2.7	.16	.46	.17
30	.14	e.20	.00	.15	---	e.34	1.6	.88	.26	.26	.32	.36
31	.21	---	.00	.21	---	e.25	---	1.2	---	.19	.18	---
TOTAL	7.79	7.26	3.91	4.55	5.46	7.10	23.95	36.75	22.16	9.98	8.36	8.97
MEAN	.25	.24	.13	.15	.19	.23	.67	.81	.49	.25	.26	.27
MAX	.63	.63	.30	.35	.36	.52	3.1	14	2.7	.90	.75	.67
MIN	.07	.05	.00	.01	.02	.01	.04	.09	.09	.03	.03	.06
AC-FT	15	14	7.8	9.0	11	14	48	73	44	20	17	18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	.25	.24	.13	.15	.19	.23	.67	.81	.49	.25	.26	.27
MAX	.25	.24	.13	.15	.19	.23	.80	1.19	.74	.32	.27	.30
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	.25	.24	.13	.15	.19	.23	.54	.44	.24	.17	.24	.24
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	146.24	
ANNUAL MEAN	.40	.40
HIGHEST ANNUAL MEAN		.40
LOWEST ANNUAL MEAN		.40
HIGHEST DAILY MEAN	14	May 17
LOWEST DAILY MEAN	a.00	Dec 11
ANNUAL SEVEN-DAY MINIMUM	.06	Dec 28
ANNUAL RUNOFF (AC-FT)	290	290
10 PERCENT EXCEEDS	.78	.66
50 PERCENT EXCEEDS	.24	.24
90 PERCENT EXCEEDS	.09	.09

- a also occurred Dec. 30-31
- b No flow at times most years
- e Estimated

Table 16.--Daily mean discharge, GS10 (South Walnut Creek Above B-Series Bypass), water year 1994

SOUTH WALNUT CREEK ABOVE B-SERIES BYPASS

SITE NUMBER.--GS10

STATION IDENTIFICATION.--395335105112700

LOCATION.--Lat 39°53'35", long 105°11'27", in SW¹/4NE¹/4 sec.11, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, just upstream from the B-1 Bypass above Pond B-1.

DRAINAGE AREA.--0.28 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water stage recorder and Parshall flume. Elevation of gage is 5,882 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.10	.17	.11	.03	.06	.05
2	---	---	---	---	---	---	.12	.27	.10	.03	.06	.03
3	---	---	---	---	---	---	.09	.14	.51	.03	.09	.02
4	---	---	---	---	---	---	.10	.13	.11	.03	.07	.02
5	---	---	---	---	---	---	.21	.12	.08	.04	.07	.02
6	---	---	---	---	---	---	.13	.13	.08	.03	.08	.04
7	---	---	---	---	---	---	.09	.11	.07	.03	.13	.05
8	---	---	---	---	---	---	.07	.10	.07	.03	.15	.05
9	---	---	---	---	---	---	.52	.15	.07	.03	.15	.06
10	---	---	---	---	---	---	1.2	.12	.07	.03	.54	.07
11	---	---	---	---	---	.05	.25	.12	.06	.04	.13	.04
12	---	---	---	---	---	.07	.47	.11	.06	.04	.11	.04
13	---	---	---	---	---	.08	.19	.65	.06	.04	.09	.05
14	---	---	---	---	---	.06	.13	.13	.06	.04	.08	.05
15	---	---	---	---	---	.07	.11	.11	.06	.05	.10	.05
16	---	---	---	---	---	.06	.10	.11	.06	.04	.11	.05
17	---	---	---	---	---	.06	.10	.10	.07	.03	.11	.03
18	---	---	---	---	---	.06	.09	.12	.06	.06	.11	.04
19	---	---	---	---	---	.05	.09	.10	.06	.05	.10	.04
20	---	---	---	---	---	.06	.08	.10	.07	.05	.08	.06
21	---	---	---	---	---	.08	.08	.09	.23	.04	.08	.31
22	---	---	---	---	---	.04	.08	.09	.18	.03	.05	.14
23	---	---	---	---	---	.05	.08	.09	.07	.05	.03	.06
24	---	---	---	---	---	.06	.08	.10	.05	.04	.02	.06
25	---	---	---	---	---	.05	1.1	.10	.04	.04	.03	.06
26	---	---	---	---	---	.07	.23	.08	.04	.04	.02	.07
27	---	---	---	---	---	.18	.23	.08	.04	.05	.01	.08
28	---	---	---	---	---	.18	.20	.22	.04	.05	.05	.10
29	---	---	---	---	---	.56	1.1	.07	.04	.05	.02	.09
30	---	---	---	---	---	.28	.43	.06	.03	.05	.00	.10
31	---	---	---	---	---	.12	---	.35	---	.06	.06	---
TOTAL	---	---	---	---	---	---	7.85	4.42	2.65	1.25	2.79	1.93
MEAN	---	---	---	---	---	---	.26	.14	.088	.040	.090	.064
MAX	---	---	---	---	---	---	1.2	.65	.51	.06	.54	.31
MIN	---	---	---	---	---	---	.07	.06	.03	.03	.00	.02
AC-FT	---	---	---	---	---	---	16	8.8	5.3	2.5	5.5	3.8

Table 17.--Daily mean discharge, GS10 (South Walnut Creek Above B-Series Bypass), water year 1995

SOUTH WALNUT CREEK ABOVE B-SERIES BYPASS

SITE NUMBER.--GS10

STATION IDENTIFICATION.--395335105112700

LOCATION.--Lat 39°53'35", long 105°11'27", in SW¹/₄NE¹/₄ sec.11, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, just upstream from the B-1 Bypass above Pond B-1.

DRAINAGE AREA.--0.28 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,882 ft above sea level.

REMARKS.--Records poor.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR (OCTOBER 1994 TO SEPTEMBER 1995)
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.04	.06	.00	.06	.08	.07	.32	e.34	e.25	.06	.02
2	.10	.05	.05	.00	.04	.06	.07	.39	e.78	e.23	.05	.02
3	.12	.10	.05	.00	.03	.07	.07	.66	e.77	e.22	.04	.02
4	.11	.26	.05	.00	.03	.07	.06	.38	e.72	e.21	.05	.02
5	.10	.14	.05	.00	.03	.07	.06	.18	.41	.16	.05	.03
6	.09	.07	.06	.00	.03	.38	.06	.16	.32	.16	.04	.03
7	.04	.06	.05	.00	.02	.12	.06	.15	.28	.15	.05	.03
8	.04	.43	e.06	.00	.03	.14	.06	.18	1.4	.14	.06	.03
9	.03	.14	e.05	.00	.03	.09	.10	.13	e1.8	.14	.06	.10
10	.03	.07	e.05	.00	.02	.08	.58	.13	e.40	.14	.04	.05
11	.05	.05	.03	.00	.00	.07	.50	.13	e.35	.14	.03	.03
12	.04	.04	e.03	.00	.00	.07	.41	.15	e.36	.14	.02	.03
13	.05	.05	.03	.02	.00	.07	.12	.15	e.32	.21	.02	.04
14	.05	.45	.03	.03	.63	.07	.09	.12	e.36	.32	.03	.04
15	.08	.09	e.02	.03	.19	.07	.08	.15	e.35	.24	.02	.04
16	.08	.08	.04	.02	.13	.10	e.37	e.77	e.33	.24	.02	.04
17	.61	.06	.04	.03	.18	.10	1.1	e11	e.57	.26	.04	.04
18	.06	.06	.04	.02	.10	.08	e1.2	e.27	e.37	.23	.29	.30
19	.05	.05	.05	.02	.09	.08	e1.6	e.22	e.32	.30	.12	.21
20	.05	.06	.05	.02	.09	.08	.37	e.19	e.27	.13	.07	.44
21	.05	.05	.03	e.02	.07	.08	e1.5	e.18	e.24	.06	.05	.49
22	.05	.05	.01	e.02	.07	.08	.61	e.17	e.23	.05	.04	.26
23	.06	.05	.00	e.02	.07	.08	.48	e.99	e.26	.05	.03	.12
24	.06	.06	.00	e.02	.06	.08	.44	e.55	e.25	.05	.03	.13
25	.06	.07	.00	.03	.06	.07	e.85	e.17	e.21	.05	.02	.12
26	.06	.08	.00	.03	.06	.17	e2.3	e.56	e.22	.05	.02	.11
27	.06	.08	.00	.03	.06	.12	.78	e1.0	e.21	.05	.02	.11
28	.05	.07	.00	.04	.08	.24	e.80	e1.3	e.87	.05	.02	.10
29	.03	e.06	.00	.11	---	.17	e1.1	e.56	e2.0	.05	.02	.24
30	.03	.06	.00	e.06	---	.17	e1.2	e.54	e.28	.05	.02	.45
31	.04	---	.00	.07	---	.09	---	e.59	---	.07	.02	---
TOTAL	2.53	2.98	0.93	0.64	2.26	3.30	17.09	22.44	15.59	4.59	1.45	3.69
MEAN	.082	.099	.030	.021	.081	.11	.57	.72	.52	.15	.047	.12
MAX	.61	.45	.06	.11	.63	.38	2.3	11	2.0	.32	.29	.49
MIN	.03	.04	.00	.00	.00	.06	.06	.12	.21	.05	.02	.02
AC-FT	5.0	5.9	1.8	1.3	4.5	6.5	34	45	31	9.1	2.9	7.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	.082	.099	.030	.021	.081	.11	.42	.43	.30	.094	.068	.094
MAX	.082	.099	.030	.021	.081	.11	.57	.72	.52	.15	.090	.12
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	.082	.099	.030	.021	.081	.11	.26	.14	.088	.040	.047	.064
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1995	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	77.49	
ANNUAL MEAN	.21	.21
HIGHEST ANNUAL MEAN		.21 1995
LOWEST ANNUAL MEAN		.21 1995
HIGHEST DAILY MEAN	11	11 May 17 1995
LOWEST DAILY MEAN	.00	.00 Dec 23 1994
ANNUAL SEVEN-DAY MINIMUM	a.00	a.00 Dec 23 1994
ANNUAL RUNOFF (AC-FT)	154	154
10 PERCENT EXCEEDS	.46	.38
50 PERCENT EXCEEDS	.07	.07
90 PERCENT EXCEEDS	.02	.02

a No flow many days
e Estimated

Table 18.--Daily mean discharge, GS11 (Walnut Creek Below Pond A-4), water year 1994

WALNUT CREEK BELOW POND A-4

SITE NUMBER.--GS11

STATION IDENTIFICATION.--395403105104700

LOCATION.--Lat 39°54'03", long 105°10'47", in SW¹/₄SW¹/₄ sec.1, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, just below Pond A-4 dam.

DRAINAGE AREA.--0 mi² (isolated by detention ponds).

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,715 ft above sea level.

REMARKS.--Records fair. Flow regulated by Pond A-4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	1.9	.00	.00	.00	.02	.00
2	---	---	---	---	---	---	1.8	.00	.00	.00	.01	.00
3	---	---	---	---	---	---	1.8	.00	.00	.00	.01	.00
4	---	---	---	---	---	---	1.8	.00	.00	.00	.00	.00
5	---	---	---	---	---	---	1.8	.00	.00	.00	.00	.00
6	---	---	---	---	---	---	1.8	.00	.00	.00	.00	.00
7	---	---	---	---	---	---	1.7	.00	.00	.00	.00	1.2
8	---	---	---	---	---	---	1.6	.00	.00	.00	.00	1.7
9	---	---	---	---	---	---	1.7	.00	.00	.00	.00	1.6
10	---	---	---	---	---	---	1.6	.00	.00	.00	.00	1.4
11	---	---	---	---	---	---	1.6	.00	.00	.00	.03	1.4
12	---	---	---	---	---	---	1.5	.00	.00	.00	.01	1.4
13	---	---	---	---	---	---	.47	.00	.00	.00	.00	1.4
14	---	---	---	---	---	---	.00	1.5	.00	.00	.00	1.5
15	---	---	---	---	---	---	.00	2.1	.00	.00	.00	1.5
16	---	---	---	---	---	.00	.00	2.0	.00	.00	.00	.85
17	---	---	---	---	---	.00	.00	2.0	.00	.00	.00	.01
18	---	---	---	---	---	.00	.00	1.9	1.4	.00	.00	.00
19	---	---	---	---	---	.00	.00	1.9	2.0	.00	.00	.00
20	---	---	---	---	---	.00	.00	.92	1.9	.00	.00	.00
21	---	---	---	---	---	.00	.00	.00	1.9	.00	.00	.00
22	---	---	---	---	---	.00	.00	.00	1.9	.00	.00	.00
23	---	---	---	---	---	1.2	.00	.00	1.9	1.3	.00	.00
24	---	---	---	---	---	1.9	.00	.00	1.9	1.7	.00	.00
25	---	---	---	---	---	1.9	.01	.00	1.9	1.7	.00	.00
26	---	---	---	---	---	1.9	.00	.00	2.0	1.6	.00	.00
27	---	---	---	---	---	1.9	.00	.00	.98	1.7	.00	.00
28	---	---	---	---	---	1.9	.00	.00	.00	1.7	.00	.00
29	---	---	---	---	---	1.9	.00	.00	.00	1.6	.00	.00
30	---	---	---	---	---	1.9	.00	.00	.00	1.6	.00	.00
31	---	---	---	---	---	1.9	---	.00	---	1.0	.00	---
TOTAL	---	---	---	---	---	---	21.08	12.32	17.78	13.90	0.08	13.96
MEAN	---	---	---	---	---	---	.70	.40	.59	.45	.003	.47
MAX	---	---	---	---	---	---	1.9	2.1	2.0	1.7	.03	1.7
MIN	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC- FT	---	---	---	---	---	---	42	24	35	28	.2	28

Table 19.--Daily mean discharge, GS11 (Walnut Creek Below Pond A-4), water year 1995

WALNUT CREEK BELOW POND A-4

SITE NUMBER.--GS11

STATION IDENTIFICATION.--395403105104700

LOCATION.--Lat 39°54'03", long 105°10'47", in SW¹/4SW¹/4 sec.1, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, just below Pond A-4 dam.

DRAINAGE AREA.--0 mi² (isolated by detention ponds).

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,715 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.00	e.00	.00	.00	.00	e.00	.00	3.7	3.1	.00	e.00	.00
2	e.00	e.00	.00	.00	.00	.00	.00	3.6	3.3	.00	e1.5	.00
3	.00	e.00	.00	e.00	.00	e.00	.00	3.5	2.5	.00	e2.7	.00
4	.00	e.00	.00	e.00	.00	e.00	.00	3.4	2.9	.00	e2.4	.00
5	.00	e.00	.00	e.00	.00	e.00	.00	3.2	2.8	.00	e2.3	.00
6	.00	e.00	.00	e.00	.00	e.00	.00	2.0	2.8	.00	e2.1	.00
7	.00	e.00	.00	e.00	.00	.00	.00	1.9	2.8	e.00	e2.1	.00
8	.00	e.00	.00	.00	1.4	.00	.00	2.1	2.8	e.00	2.1	.00
9	.00	e.00	.00	.00	2.0	.00	.00	.86	2.8	e.00	2.1	.00
10	.00	e.00	.89	.00	2.0	1.4	.00	e.00	2.8	e.00	1.8	.01
11	e.00	e.00	1.9	.00	1.9	1.9	.00	e.00	2.7	e.00	1.4	.01
12	e.00	.00	1.9	.00	1.7	1.7	.00	e.00	2.5	e.00	.87	.00
13	e.00	.00	1.8	.00	1.3	1.6	.00	e.00	2.6	e.00	.58	.00
14	e.00	.00	1.6	.00	.05	1.5	1.6	e.00	2.6	.00	e.00	.00
15	e.00	.00	1.5	.00	.05	1.3	2.3	e.00	2.6	.00	.00	2.9
16	e.00	.00	1.9	.00	.04	1.2	2.1	e.00	e1.3	.00	e.00	3.8
17	e.00	.00	2.0	.00	.04	.63	2.0	1.2	e.00	.00	e.00	3.3
18	e.00	.00	2.0	.00	.03	.04	2.0	3.9	e.00	.00	e.00	2.7
19	e.00	.00	1.4	.00	.03	.03	1.9	3.9	e.00	.00	.00	2.6
20	e.00	.00	1.4	.00	.03	.02	1.4	3.9	.00	.00	.00	2.3
21	.00	.00	1.3	.00	e.00	e.00	.69	3.8	.00	.00	e.00	2.3
22	.90	.00	.54	.00	e.00	.00	.18	3.9	.00	.00	e.00	2.0
23	1.4	.00	.02	.00	e.00	.00	.16	3.9	.00	.00	e.00	1.7
24	1.4	.00	.01	.00	e.00	.00	.16	3.9	e.00	.00	e.00	1.7
25	1.8	.00	.01	.00	e.00	.00	.16	3.9	e.00	.00	e.00	1.5
26	2.0	.00	.01	.00	e.00	.00	1.0	3.7	e.00	.00	e.00	1.3
27	2.0	.00	.01	.00	.00	.00	2.6	3.4	e.00	.00	e.00	.74
28	1.8	.00	.01	.00	e.00	.00	3.3	3.2	.00	.00	e.00	.00
29	1.7	.00	.01	.00	---	.00	3.5	3.0	.00	.00	e.00	.00
30	1.7	.00	.01	.00	---	.00	3.6	2.9	.00	.00	e.00	.00
31	.94	---	.00	.00	---	.00	---	2.9	---	.00	.00	---
TOTAL	15.64	0.00	20.22	0.00	10.57	11.32	28.65	75.66	42.90	0.00	21.95	28.86
MEAN	.50	.0000	.65	.0000	.38	.37	.95	2.44	1.43	.0000	.71	.96
MAX	2.0	.00	2.0	.00	2.0	1.9	3.6	3.9	3.3	.00	2.7	3.8
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	31	.00	40	.00	21	22	57	150	85	.00	44	57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	.50	.0000	.65	.0000	.38	.37	.83	1.42	1.01	.22	.36	.71
MAX	.50	.0000	.65	.0000	.38	.37	.95	2.44	1.43	.45	.71	.96
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1995	1995
MIN	.50	.0000	.65	.0000	.38	.37	.70	.40	.59	.0000	.003	.47
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1995	1994	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	255.77	
ANNUAL MEAN	.70	.70
HIGHEST ANNUAL MEAN		.70 1995
LOWEST ANNUAL MEAN		.70 1995
HIGHEST DAILY MEAN	3.9 May 18	3.9 May 18 1995
LOWEST DAILY MEAN	a.00 Oct 1	a.00 Mar 16 1994
ANNUAL SEVEN-DAY MINIMUM	.00 Oct 1	.00 Mar 16 1994
ANNUAL RUNOFF (AC-FT)	507	508
10 PERCENT EXCEEDS	2.7	2.0
50 PERCENT EXCEEDS	.00	.00
90 PERCENT EXCEEDS	.00	.00

a No flow many days
e Estimated

Table 20.--Daily mean discharge, GS12 (Walnut Creek Below Pond A-3), water year 1994

WALNUT CREEK BELOW POND A-3

SITE NUMBER.--GS12

STATION IDENTIFICATION.--395358105110500

LOCATION.--Lat 39°53'58", long 105°11'05", in NE¹/4NE¹/4 sec.11, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, just downstream from Pond A-3 dam.

DRAINAGE AREA.--0 mi² (isolated by detention ponds).

PERIOD OF RECORD.--February 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,761 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	e.00	e.00	.00	.02	.94	.00	e.00
2	---	---	---	---	---	e.00	e.00	.00	.01	.00	.00	e.00
3	---	---	---	---	---	.12	e.00	.00	.12	.00	.00	e.00
4	---	---	---	---	---	.07	e.00	.00	e.00	.00	.00	e.00
5	---	---	---	---	---	e.00	.03	.00	.00	.00	.00	e.00
6	---	---	---	---	---	e.00	.04	.00	e.00	.00	.00	e.00
7	---	---	---	---	---	e.00	e.00	.00	.00	e.00	.00	e.00
8	---	---	---	---	---	.07	.04	.00	e.00	e.00	1.2	e.00
9	---	---	---	---	---	1.1	e.00	.00	e.00	e.00	1.8	.00
10	---	---	---	---	---	.44	e.00	.00	e.00	.00	.88	.00
11	---	---	---	---	---	e.00	e.00	.00	e.00	e.00	.09	.00
12	---	---	---	---	---	e.00	.04	.00	.00	.00	.04	.00
13	---	---	---	---	---	.12	1.3	.00	.00	e.00	e.00	.00
14	---	---	---	---	---	e.00	2.1	.00	e.00	.00	.00	.00
15	---	---	---	---	---	.03	1.9	.00	e.00	.00	.00	.00
16	---	---	---	---	---	e.00	1.7	.00	.00	.00	.00	.00
17	---	---	---	---	---	e.00	1.6	.00	.00	.00	.00	.00
18	---	---	---	---	---	e.00	1.3	.03	.00	.00	.00	.00
19	---	---	---	---	---	.00	1.2	.07	.00	e.00	.00	.00
20	---	---	---	---	---	e.00	e1.0	.04	.00	.00	.00	.00
21	---	---	---	---	---	e.00	e.00	.00	.01	.00	.00	.00
22	---	---	---	---	---	e.00	e.00	.00	.00	.00	.00	.00
23	---	---	---	---	---	e.00	e.00	1.0	.00	.00	.00	.00
24	---	---	---	---	---	e.00	e.00	1.5	.00	.00	.00	.00
25	---	---	---	---	---	e.00	e.00	1.4	.00	.00	.00	.00
26	---	---	---	---	---	e.00	e.00	1.4	.00	.00	.00	.00
27	---	---	---	---	---	e.00	e.00	.76	.00	.00	.00	.00
28	---	---	---	---	---	e.00	.00	.08	1.2	.00	.00	.00
29	---	---	---	---	---	e.00	e.00	.02	1.7	.00	.00	.69
30	---	---	---	---	---	e.00	.00	.00	1.6	.00	e.00	1.4
31	---	---	---	---	---	.02	---	.02	---	.00	e.00	---
TOTAL	---	---	---	---	---	1.97	12.25	6.32	4.66	0.94	4.01	2.09
MEAN	---	---	---	---	---	.064	.41	.20	.16	.030	.13	.070
MAX	---	---	---	---	---	1.1	2.1	1.5	1.7	.94	1.8	1.4
MIN	---	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
AC-FT	---	---	---	---	---	3.9	24	13	9.2	1.9	8.0	4.1

e Estimated

Table 21.--Daily mean discharge, GS12 (Walnut Creek Below Pond A-3), water year 1995

WALNUT CREEK BELOW POND A-3

SITE NUMBER.--GS12

STATION IDENTIFICATION.--395358105110500

LOCATION.--Lat 39°53'58", long 105°11'05", in NE¹/₄NE¹/₄ sec.11, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, just downstream from Pond A-3 dam.

DRAINAGE AREA.--0 mi² (isolated by detention ponds).

PERIOD OF RECORD.--February 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,761 ft above sea level.

REMARKS.--Records poor.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	.00	.00	.00	.00	.00	.00	2.3	e2.6	.17	.00	.05
2	1.4	.00	.00	.00	.00	.00	.00	2.3	e2.6	.17	.00	.06
3	.82	.00	.00	.00	.00	.00	.00	2.3	e2.6	.19	.00	.07
4	.00	.00	.00	.00	.00	.00	.00	2.3	e2.6	.18	.00	.05
5	.00	.00	.00	.00	.00	.00	.00	e1.0	e2.6	.15	.00	.05
6	.00	.00	.00	.00	.00	.00	.00	.00	2.6	.14	.00	.07
7	.00	.00	.00	.00	.00	.00	.00	.00	2.5	.14	.00	.11
8	.00	.00	.00	.00	.00	.00	.00	.00	1.5	.13	.00	.07
9	.00	.00	.00	.00	.00	.00	.00	.00	2.9	.14	.00	.08
10	.00	.00	.00	.00	.00	.00	.00	.00	2.3	.14	.00	.08
11	.00	.00	.00	.00	.00	.00	.00	.00	1.2	1.5	.00	.08
12	.00	.00	.00	.00	.00	.00	.00	.00	1.2	2.0	.00	.06
13	.00	.00	.00	.47	.00	.00	.00	.00	1.0	1.8	.00	.07
14	.00	.00	.00	.90	.00	.00	.00	.00	.92	.91	1.2	.07
15	.00	.00	.00	.91	.00	.00	.00	.00	.75	.16	1.6	.06
16	.00	.00	.00	.89	.00	.00	.00	.00	.14	.17	1.6	.06
17	.00	.00	.00	.54	.00	.00	.00	e8.0	.18	.16	.00	.06
18	.00	.00	.00	.00	.00	.00	.00	18	.16	.18	.00	.09
19	.00	.00	.00	.00	.00	.00	.00	18	.13	.20	.00	.12
20	.00	.00	.00	.00	.00	.00	.00	18	.13	.18	.00	.15
21	.00	.00	.00	.00	.00	.00	.00	18	.14	.10	.00	.20
22	.00	.00	.00	.00	.00	.00	.00	e8.0	.16	.08	.00	.17
23	.00	.00	.00	.00	.00	1.1	.00	e2.6	.16	.16	.00	.13
24	.00	.00	.00	.00	.00	1.8	.00	e2.6	.19	.17	.00	.13
25	.00	.00	.00	.00	.00	1.8	.00	e2.6	.16	.14	.00	.12
26	.00	.00	.00	.00	.00	1.8	e.90	e2.6	.15	.14	.00	.11
27	.00	.00	.00	.00	.00	1.8	e2.3	e2.6	.16	.14	.00	.09
28	.00	.00	.00	.00	.00	1.8	e2.6	e2.6	.22	.15	.00	.10
29	.00	.00	.00	.00	.00	1.8	2.3	e2.6	.25	.13	.00	.11
30	.00	.00	.00	.00	.00	1.8	2.3	e2.6	.23	.15	.00	.12
31	.00	.00	.00	.00	.00	.85	.00	e2.6	.00	.24	.00	.00
TOTAL	3.62	0.00	0.00	3.71	0.00	14.55	10.10	121.60	32.43	10.41	4.40	2.79
MEAN	.12	.000	.000	.12	.000	.47	.34	3.92	1.08	.34	.14	.093
MAX	1.4	.00	.00	.91	.00	1.8	2.3	18	2.9	2.0	1.6	.20
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.13	.08	.00	.05
AC-FT	7.2	.00	.00	7.4	.00	29	20	241	64	21	8.7	5.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	.12	.000	.000	.12	.000	.27	.37	2.06	.62	.18	.14	.081
MAX	.12	.000	.000	.12	.000	.47	.41	3.92	1.08	.34	.14	.093
(WY)	1995	1995	1995	1995	1995	1995	1994	1995	1995	1995	1995	1995
MIN	.12	.000	.000	.12	.000	.064	.34	.20	.16	.030	.13	.070
(WY)	1995	1995	1995	1995	1995	1994	1995	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	203.61	
ANNUAL MEAN	.56	.56
HIGHEST ANNUAL MEAN		.56
LOWEST ANNUAL MEAN		.56
HIGHEST DAILY MEAN	18	18
LOWEST DAILY MEAN	a.00	a.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00
ANNUAL RUNOFF (AC-FT)	404	404
10 PERCENT EXCEEDS	1.8	1.4
50 PERCENT EXCEEDS	.00	.00
90 PERCENT EXCEEDS	.00	.00

a No flow many days
e Estimated

Table 22.--Daily mean discharge, GS 14 (Woman Creek Below Pond C-2), water year 1994

WOMAN CREEK BELOW POND C-2

SITE NUMBER.--GS14

STATION IDENTIFICATION.--395304105105100

LOCATION.--Lat 39°53'04", long 105°10'51", in NW¹/4NW¹/4 sec.13, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, between Woman Creek Diversion and Mower Diversion.

DRAINAGE AREA.--1.4 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume with weir plate. Elevation of gage is 5,705 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.53	1.6	.04	.00	.00	.00
2	---	---	---	---	---	---	.39	1.2	.02	.00	.00	.00
3	---	---	---	---	---	---	.36	1.3	.03	.00	.00	.00
4	---	---	---	---	---	---	.28	.89	.07	.00	.00	.00
5	---	---	---	---	---	---	.30	.75	.03	.00	.00	.00
6	---	---	---	---	---	---	.48	.72	.00	.00	.00	.00
7	---	---	---	---	---	---	.52	.57	.00	.00	.00	.00
8	---	---	---	---	---	---	.31	.48	.00	.00	.00	.00
9	---	---	---	---	---	---	.30	.47	.00	.00	.00	.00
10	---	---	---	---	---	---	.71	.56	.00	.00	.00	.00
11	---	---	---	---	---	---	.82	.41	.00	.00	.00	.00
12	---	---	---	---	---	---	1.7	.36	.00	.00	.00	.00
13	---	---	---	---	---	---	2.1	.35	.00	.00	.00	.00
14	---	---	---	---	---	---	.93	.68	.00	.00	.00	.00
15	---	---	---	---	---	---	.66	.34	.00	.00	.00	.00
16	---	---	---	---	---	.24	.51	.24	.00	.00	.00	.00
17	---	---	---	---	---	.22	.42	.16	.00	.00	.00	.00
18	---	---	---	---	---	.18	.41	.10	.00	.00	.00	.00
19	---	---	---	---	---	.17	.36	.06	.00	.00	.00	.00
20	---	---	---	---	---	.15	.38	.04	.00	.00	.00	.00
21	---	---	---	---	---	.17	.35	.03	.00	.00	.00	.00
22	---	---	---	---	---	.15	.30	.03	.00	.00	.00	.00
23	---	---	---	---	---	.12	.31	.05	.00	.00	.00	.00
24	---	---	---	---	---	.10	.26	.05	.00	.00	.00	.00
25	---	---	---	---	---	.11	.80	.08	.00	.00	.00	.00
26	---	---	---	---	---	.14	.84	.12	.00	.00	.00	.00
27	---	---	---	---	---	.19	.67	.09	.00	.00	.00	.00
28	---	---	---	---	---	.25	.85	.07	.00	.00	.00	.00
29	---	---	---	---	---	.55	1.4	.09	.00	.00	.00	.00
30	---	---	---	---	---	.67	2.5	.02	.00	.00	.00	.00
31	---	---	---	---	---	.87	---	.01	---	.00	.00	---
TOTAL	---	---	---	---	---	---	20.75	11.92	0.19	0.00	0.00	0.00
MEAN	---	---	---	---	---	---	.69	.38	.006	.000	.000	.000
MAX	---	---	---	---	---	---	2.5	1.6	.07	.00	.00	.00
MIN	---	---	---	---	---	---	.26	.01	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	41	24	.4	.00	.00	.00

Table 23.--Daily mean discharge, GS14 (Woman Creek Below Pond C-2), water year 1995

WOMAN CREEK BELOW POND C-2

SITE NUMBER.--GS14

STATION IDENTIFICATION.--395304105105100

LOCATION.--Lat 39°53'04", long 105°10'51", in NW¹/₄NW¹/₄ sec.13, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, between Woman Creek Diversion and Mower Diversion.

DRAINAGE AREA.--1.4 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water stage recorder and Parshall flume with weir plate. Elevation of gage is 5,705 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.08	e.10	.24	e.12	.29	e3.0	2.4	.61	2.3	.00
2	.00	.00	.12	e.00	.13	e.10	.18	e2.5	2.1	.41	.19	.00
3	.00	.00	e.12	e.00	.13	e.13	.14	2.8	3.6	.28	.03	.00
4	.00	.00	e.11	e.00	.12	e.14	.11	2.9	2.8	.22	.00	.00
5	.00	.00	e.10	e.00	.11	e.13	.09	1.5	2.7	.19	.00	.00
6	.00	.08	e.10	e.00	.10	e.15	e.00	1.2	1.4	.12	.00	.00
7	.00	.05	e.10	e.00	.11	e.14	e.00	.85	1.0	.09	.00	.00
8	.00	.05	e.10	e.00	.11	e.22	e.00	.87	2.7	.11	.00	.00
9	.00	.12	e.00	e.13	.12	.36	e.00	.82	4.9	.09	.00	.00
10	.00	.19	e.00	e.20	e.10	.34	e.14	.59	2.9	.08	.00	.00
11	.00	.13	e.00	e.17	e.10	.11	e.25	.53	2.3	.05	.00	.00
12	.00	.08	e.00	e.14	e.00	.09	e.70	.54	1.3	.02	.00	.00
13	.00	.05	e.00	e.12	e.00	.06	e.23	.40	.95	.00	.00	.00
14	.00	.11	e.00	e.10	e.10	.05	e.10	.41	.74	.06	.00	.00
15	.00	.13	e.00	e.12	e.22	.04	e.00	.41	.58	.14	.00	.00
16	.00	.15	e.00	e.10	e.17	.05	e.00	.36	.42	.08	.00	.00
17	.00	.11	e.00	e.10	e.25	.08	e.25	e20	.41	.07	.00	.00
18	.00	.05	e.10	e.00	e.32	.08	e.50	3.6	.73	.05	.00	.00
19	.00	.04	e.10	e.00	e.25	.06	e1.3	2.7	.43	.08	.00	.00
20	.00	.08	e.10	e.00	e.20	.04	e2.9	1.8	.32	.15	.00	.00
21	.00	.07	e.10	.02	e.15	.04	e3.2	1.4	.25	.06	.00	.00
22	.00	.08	e.10	.00	e.14	.03	e3.9	1.1	.24	.02	.00	.00
23	.00	.07	e.12	.04	e.13	.02	e3.8	2.9	.21	.00	.00	.00
24	.00	.11	e.13	.01	e.12	.03	e4.2	4.4	.30	.00	.00	.00
25	.00	.11	e.15	.02	e.11	.02	e3.5	3.4	.28	.00	.00	.00
26	.00	.11	e.17	.05	e.10	.04	e4.8	2.9	.20	.00	.00	.00
27	.00	.04	e.15	.10	e.10	.09	e6.0	4.8	.16	.00	.00	.00
28	.00	.01	e.13	.10	e.11	.14	e4.0	3.8	.32	.00	.00	.00
29	.00	.00	e.10	.11	---	.18	e5.6	4.4	1.7	1.2	.00	.00
30	.00	.02	e.10	.03	---	.18	e5.0	3.7	.88	3.7	.00	.00
31	.00	---	e.10	.14	---	.35	---	2.8	---	3.5	.00	---
TOTAL	0.00	2.04	2.48	1.90	3.84	3.61	51.18	83.38	39.22	11.38	2.52	0.00
MEAN	.000	.068	.080	.061	.14	.12	1.71	2.69	1.31	.37	.081	.000
MAX	.00	.19	.17	.20	.32	.36	6.0	20	4.9	3.7	2.3	.00
MIN	.00	.00	.00	.00	.00	.02	.00	.36	.16	.00	.00	.00
AC-FT	.00	4.0	4.9	3.8	7.6	7.2	102	165	78	23	5.0	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1994	.000	.068	1995	.080	1995
1995	.068	.080	1995	.061	1995
1996	.14	.12	1995	.14	1995
1997	.12	1.71	1995	.12	1995
1998	1.20	2.69	1995	.69	1995
1999	1.54	1.31	1995	.38	1995
2000	.66	.37	1995	.006	1995
2001	.18	.081	1995	.000	1995
2002	.041	.000	1995	.000	1995
2003	.000	.000	1995	.000	1995
2004	.000	.000	1995	.000	1995

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	201.55	
ANNUAL MEAN	.55	.55
HIGHEST ANNUAL MEAN		.55
LOWEST ANNUAL MEAN		.55
HIGHEST DAILY MEAN	20	20
LOWEST DAILY MEAN	a.00	a.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00
ANNUAL RUNOFF (AC-FT)	400	400
10 PERCENT EXCEEDS	2.3	1.0
50 PERCENT EXCEEDS	.10	.05
90 PERCENT EXCEEDS	.00	.00

a No flow many days
e Estimated

Table 24.--Daily mean discharge, GS15 (Smart Ditch Above Pond D-1), water year 1994

SMART DITCH ABOVE POND D-1

SITE NUMBER.--GS15

STATION IDENTIFICATION.--395246105111800

LOCATION.--Lat 39°52'46", long 105°11'13", in SE¹/₄NE¹/₄ sec.14, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, at concrete splitter box that routes flow to D-series ponds.

DRAINAGE AREA.--1.18 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume with weir plate. Elevation of gage is 5,757 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No data July 5-18 due to equipment failure.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.03	.10	.06	.08	.00	.00
2	---	---	---	---	---	---	.01	.09	.06	.09	.00	.00
3	---	---	---	---	---	---	.00	.07	.08	.09	.00	.00
4	---	---	---	---	---	---	.00	.05	.08	.09	.00	.00
5	---	---	---	---	---	---	.02	.03	.06	---	.00	.00
6	---	---	---	---	---	---	.04	.02	.16	---	.00	.00
7	---	---	---	---	---	---	.02	.02	.36	---	.00	.00
8	---	---	---	---	---	---	.00	.01	.51	---	.00	.00
9	---	---	---	---	---	---	.02	.00	.71	---	.00	.00
10	---	---	---	---	---	---	.06	.01	.71	---	.00	.00
11	---	---	---	---	---	---	.07	.00	.72	---	.00	.00
12	---	---	---	---	---	---	.26	.00	.64	---	.00	.00
13	---	---	---	---	---	---	.16	.03	.35	---	.00	.00
14	---	---	---	---	---	---	.09	.05	.27	---	.00	.00
15	---	---	---	---	---	---	.05	.00	.21	---	.00	.00
16	---	---	---	---	---	---	.02	.00	.22	---	.00	.00
17	---	---	---	---	---	---	.01	.00	.22	---	.00	.00
18	---	---	---	---	---	---	.00	.00	.21	---	.00	.00
19	---	---	---	---	---	---	.00	.00	.18	.15	.00	.00
20	---	---	---	---	---	---	.00	.00	.17	.09	.00	.00
21	---	---	---	---	---	---	.00	.00	.17	.01	.00	.00
22	---	---	---	---	---	---	.00	.01	.15	.00	.00	.00
23	---	---	---	---	---	---	.00	.07	.12	.00	.00	.00
24	---	---	---	---	---	---	.00	.06	.11	.00	.00	.00
25	---	---	---	---	---	---	.14	.06	.11	.00	.00	.00
26	---	---	---	---	---	---	.06	.07	.10	e.00	.00	.00
27	---	---	---	---	---	---	.06	.06	.08	.00	.00	.00
28	---	---	---	---	---	---	.09	.08	.08	.00	.00	.00
29	---	---	---	---	---	---	.22	.05	.09	.00	.00	.00
30	---	---	---	---	---	---	.29	.03	.08	.00	.00	.00
31	---	---	---	---	---	.06	---	.06	---	.00	.00	---
TOTAL	---	---	---	---	---	---	1.72	1.03	7.07	---	0.00	0.00
MEAN	---	---	---	---	---	---	.057	.033	.24	---	.000	.000
MAX	---	---	---	---	---	---	.29	.10	.72	---	.00	.00
MIN	---	---	---	---	---	---	.00	.00	.06	---	.00	.00
AC-FT	---	---	---	---	---	---	3.4	2.0	14	---	.00	.00

e Estimated

Table 25.--Daily mean discharge, GS15 (Smart Ditch Above Pond D-1), water year 1995

SMART DITCH ABOVE POND D-1

SITE NUMBER.--GS15

STATION IDENTIFICATION.--395246105111800

LOCATION.--Lat 39°52'46", long 105°11'18", in SE¹/₄NE¹/₄ sec.14, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, at concrete splitter box that routes flow to D-series ponds.

DRAINAGE AREA.--1.18 mi².

PERIOD OF RECORD.--March 1994 to May 1995. Station discontinued June 1, 1995.

GAGE.--Water-stage recorder and Parshall flume with weir plate. Elevation of gage is 5,757 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.09	.00	.42	.29	---	---	---	---
2	.00	.00	.00	.00	.00	.00	.24	.15	---	---	---	---
3	.00	.00	.00	.00	.06	.07	.05	e.15	---	---	---	---
4	.00	.00	.00	.00	.13	.00	.00	e.20	---	---	---	---
5	.00	.00	.00	.00	.09	.00	.00	.18	---	---	---	---
6	.00	.00	.00	.00	.05	.02	.00	.11	---	---	---	---
7	.00	.00	.00	.00	.00	e.05	.00	.07	---	---	---	---
8	.00	.00	.00	.00	.01	e.00	.00	.07	---	---	---	---
9	.00	.00	.00	.00	.02	.69	.00	.04	---	---	---	---
10	.00	.00	.00	.00	.00	.69	.00	.03	---	---	---	---
11	.00	.00	.00	.00	.00	.63	.16	.03	---	---	---	---
12	.00	.00	.00	.00	.00	.29	.59	.02	---	---	---	---
13	.00	.00	.00	.00	.00	.01	.74	.01	---	---	---	---
14	.00	.00	.00	.00	.26	.00	.59	.01	---	---	---	---
15	.00	.00	.00	.00	.12	.00	.47	.00	---	---	---	---
16	.00	.00	.00	.00	.04	.00	.22	.02	---	---	---	---
17	.00	.00	.00	.00	.08	.00	.72	1.1	---	---	---	---
18	.00	.00	.00	.00	.45	.00	.73	.27	---	---	---	---
19	.00	.00	.00	.00	.68	.00	.95	.01	---	---	---	---
20	.00	.00	.00	.00	.65	.00	.88	.05	---	---	---	---
21	.00	.00	.00	.00	.64	.00	.89	.12	---	---	---	---
22	.00	.00	.00	.00	.59	.00	1.0	.21	---	---	---	---
23	.00	.00	.00	.00	.52	.00	.92	.60	---	---	---	---
24	.00	.00	.00	.00	.48	.00	.82	1.4	---	---	---	---
25	.00	.00	.00	.00	.30	.00	.85	.76	---	---	---	---
26	.00	.00	.00	.00	.02	.00	.77	.56	---	---	---	---
27	.00	.00	.00	.00	.00	.00	1.0	1.5	---	---	---	---
28	.00	.00	.00	.00	.00	.00	.95	1.0	---	---	---	---
29	.00	.00	.00	.00	---	.00	.97	2.5	---	---	---	---
30	.00	.00	.00	.00	---	.09	.79	2.8	---	---	---	---
31	.00	---	.00	.03	---	.32	---	1.6	---	---	---	---
TOTAL	0.00	0.00	0.00	0.03	5.28	2.86	15.72	15.86	---	---	---	---
MEAN	.000	.000	.000	.001	.19	.092	.52	.51	---	---	---	---
MAX	.00	.00	.00	.03	.68	.69	1.0	2.8	---	---	---	---
MIN	.00	.00	.00	.00	.00	.00	.00	.00	---	---	---	---
AC-FT	.00	.00	.00	.06	10	5.7	31	31	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	.000	.000	.000	.001	.19	.092	.29	.24	---	.000	.000
MAX	.000	.000	.000	.001	.19	.092	.52	.51	.24	---	.000
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1994	---	1994
MIN	.000	.000	.000	.001	.19	.092	.057	.033	.24	---	.000
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	---	1994

SUMMARY STATISTICS

WATER YEARS 1994 - 1995

HIGHEST DAILY MEAN	2.8	May 30 1995
LOWEST DAILY MEAN	a.00	Apr 3 1994
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 18 1994
10 PERCENT EXCEEDS	.48	
50 PERCENT EXCEEDS	.00	
90 PERCENT EXCEEDS	.00	

a No flow many days

e Estimated

Table 26.--Daily mean discharge, GS16 (Antelope Springs Above Woman Creek), water year 1994

ANTELOPE SPRINGS CREEK ABOVE WOMAN CREEK

SITE NUMBER.--GS16

STATION IDENTIFICATION.--395301105120800

LOCATION.--Lat 39°53'01", long 105°12'08", in NW¹/4NW¹/4 sec.14, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 750 feet upstream from the confluence with Woman Creek.

DRAINAGE AREA.--0.21 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume with weir plate. Elevation of gage is 5,900 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.11	.17	.05	.01	.01	e.01
2	---	---	---	---	---	---	.11	.21	.04	.01	.01	e.01
3	---	---	---	---	---	---	.09	.15	.05	.01	e.01	e.01
4	---	---	---	---	---	---	.07	.12	.05	.01	e.01	e.01
5	---	---	---	---	---	---	e.20	.10	.04	.01	e.01	e.01
6	---	---	---	---	---	---	e.16	.09	.03	.01	e.01	e.01
7	---	---	---	---	---	---	e.14	.09	.03	.01	e.01	e.01
8	---	---	---	---	---	---	e.12	.07	.03	.01	e.01	e.01
9	---	---	---	---	---	---	e.09	.08	.02	.01	e.01	e.01
10	---	---	---	---	---	---	e.11	.09	.02	.01	e.02	e.01
11	---	---	---	---	---	---	e.80	.07	.02	.01	e.01	e.01
12	---	---	---	---	---	---	e.40	.07	.02	.01	e.01	e.01
13	---	---	---	---	---	---	e.09	.17	.02	.01	e.01	e.01
14	---	---	---	---	---	---	e.06	.11	.02	.02	e.01	e.01
15	---	---	---	---	---	---	.07	e.06	.06	.02	e.01	e.01
16	---	---	---	---	---	.08	e.06	.04	.02	.01	e.01	e.01
17	---	---	---	---	---	.06	e.06	.03	.02	.01	e.01	e.01
18	---	---	---	---	---	.07	e.06	.04	.02	.01	e.01	e.01
19	---	---	---	---	---	.05	e.06	.04	.02	.01	e.01	e.01
20	---	---	---	---	---	.07	e.07	.04	.02	.02	e.01	e.01
21	---	---	---	---	---	.07	e.08	.04	.02	.01	e.01	.02
22	---	---	---	---	---	.06	e.09	.03	.03	.01	e.01	.04
23	---	---	---	---	---	.05	e.10	.03	.02	.01	e.01	.02
24	---	---	---	---	---	.06	e.35	.04	.02	.01	e.01	.02
25	---	---	---	---	---	.07	e.74	.04	.01	.01	e.01	.02
26	---	---	---	---	---	.08	e.14	.05	.01	.01	e.01	.01
27	---	---	---	---	---	.10	.14	.04	.01	.01	e.01	.01
28	---	---	---	---	---	.15	.20	.06	.01	.01	e.01	.01
29	---	---	---	---	---	.15	.25	.05	.01	.01	e.01	.01
30	---	---	---	---	---	.26	.42	.03	.01	.01	e.01	.02
31	---	---	---	---	---	.17	---	.05	---	.01	e.01	---
TOTAL	---	---	---	---	---	---	5.43	2.30	0.71	0.34	0.32	0.38
MEAN	---	---	---	---	---	---	.18	.074	.024	.011	.010	.013
MAX	---	---	---	---	---	---	.80	.21	.05	.02	.02	.04
MIN	---	---	---	---	---	---	.06	.03	.01	.01	.01	.01
AC-FT	---	---	---	---	---	---	11	4.6	1.4	.7	.6	.8

e Estimated

Table 27.--Daily mean discharge, GS16 (Antelope Springs Above Woman Creek), water year 1995

ANTELOPE SPRINGS CREEK ABOVE WOMAN CREEK

SITE NUMBER.--GS16

STATION IDENTIFICATION.--395301105120800

LOCATION.--Lat 39°53'01", long 105°12'08", in NW¹/₄NW¹/₄ sec.14, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 750 feet upstream from the confluence with Woman Creek.

DRAINAGE AREA.--0.21 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume with weir plate. Elevation of gage is 5,900 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.04	e.10	e.03	e.14	e.05	.06	.23	e.40	.08	.01	.01
2	.02	.05	e.09	e.03	e.08	e.05	.04	.24	e.29	.05	.01	.01
3	.02	.07	e.07	e.03	e.07	e.05	.04	.33	.93	.04	.01	.01
4	.03	.09	e.08	e.03	e.06	e.06	.04	.24	.66	.03	.01	.01
5	.03	.16	e.06	e.04	e.06	e.06	.04	.18	.36	.03	.01	.01
6	.03	.08	e.06	e.07	e.05	e.10	.04	.13	.19	.02	.01	.01
7	.03	.06	e.06	e.12	e.05	e.15	.06	.11	.16	.02	.01	.02
8	.03	.08	e.06	e.20	e.05	e.20	.05	.13	.98	.02	.01	.02
9	.03	.13	e.06	e.15	e.05	.20	.07	.11	3.7	.02	.01	.02
10	.03	.11	e.06	e.11	e.05	.08	.07	.09	.31	.01	.01	.02
11	.03	.07	e.06	e.14	e.05	.06	.18	.10	.22	.01	.01	.02
12	.03	.06	e.06	e.05	e.05	.04	.35	.10	.15	.01	.01	.01
13	.04	.06	e.04	e.15	e.05	.04	.14	.07	.12	.01	.01	.01
14	.05	.08	e.02	e.11	e.24	.04	.13	.10	.11	.02	.01	.01
15	.06	.07	e.00	e.05	e.32	.05	.11	.08	.10	.02	.01	.01
16	.07	.08	e.01	e.06	e.15	.07	.28	.05	.09	.02	.01	.01
17	.16	.07	e.01	e.06	e.06	.09	.62	e6.3	.14	.02	.01	.01
18	.07	.06	e.01	e.05	e.05	.07	.51	e.60	.13	.02	.01	.02
19	.07	.00	e.01	e.05	e.05	.09	.40	e.47	.09	.04	.02	.04
20	.07	.04	e.03	e.05	e.06	.10	.53	e.30	.05	.03	.01	.05
21	.06	.07	e.06	e.05	e.06	.06	.47	e.24	.03	.02	.01	.05
22	.06	.06	e.15	e.06	e.06	.04	.62	e.20	.03	.01	.01	.12
23	.06	.08	e.08	e.06	e.06	.03	.78	.16	.03	.01	.01	.04
24	.06	.08	e.16	e.05	e.05	.02	.98	.54	.05	.01	.01	.04
25	.06	.08	e.12	e.11	e.05	.02	.44	.13	.04	.01	.01	.03
26	.06	.09	e.09	e.10	e.05	.07	.52	.06	.03	.01	.01	.04
27	.05	.02	e.06	e.11	e.05	.06	1.3	.67	.03	.01	.01	.03
28	.05	e.07	e.05	e.08	e.05	.06	.51	.34	.18	.01	.01	.03
29	.05	e.09	e.03	e.06	---	.16	1.1	1.4	.37	.01	.01	.04
30	.06	e.12	e.03	e.06	---	.14	.97	1.7	.10	.01	.01	.08
31	.05	---	e.03	e.22	---	.12	---	e.10	---	.01	.01	---
TOTAL	1.55	2.22	1.81	2.54	2.17	2.43	11.45	15.50	10.07	0.64	0.32	0.83
MEAN	.050	.074	.058	.082	.077	.078	.38	.50	.34	.021	.010	.028
MAX	.16	.16	.16	.22	.32	.20	1.3	6.3	3.7	.08	.02	.12
MIN	.02	.00	.00	.03	.05	.02	.04	.05	.03	.01	.01	.01
AC-FT	3.1	4.4	3.6	5.0	4.3	4.8	23	31	20	1.3	.6	1.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	.050	.074	.058	.082	.077	.078	.28	.29	.18	.016	.010	.020
MAX	.050	.074	.058	.082	.077	.078	.38	.50	.34	.021	.010	.028
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1995
MIN	.050	.074	.058	.082	.077	.078	.18	.074	.024	.011	.010	.013
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	51.53	
ANNUAL MEAN	.14	.14
HIGHEST ANNUAL MEAN		.14
LOWEST ANNUAL MEAN		.14
HIGHEST DAILY MEAN	6.3	6.3
LOWEST DAILY MEAN	a.00	b.00
ANNUAL SEVEN-DAY MINIMUM	.01	.01
ANNUAL RUNOFF (AC-FT)	102	102
10 PERCENT EXCEEDS	.26	.20
50 PERCENT EXCEEDS	.06	.05
90 PERCENT EXCEEDS	.01	.01

a Also occurred Dec. 15

b No flow at times some years

c Estimated

Table 28.—Daily mean discharge, GS17 (Woman Creek Above Pond C-1), water year 1994

WOMAN CREEK ABOVE POND C-1

SITE NUMBER.--GS17

STATION IDENTIFICATION.--395309105114100

LOCATION.--Lat 39°53'09", long 105°11'41", in SE¹/4SW¹/4 sec.11, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 500 feet upstream from Pond C-1, and 1,500 feet downstream from the Antelope Springs confluence.

DRAINAGE AREA.--1.17 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume with weir plate. Elevation of gage is 5,860 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e.26	1.2	.12	.00	.00	.01
2	---	---	---	---	---	---	e.26	1.4	.08	.00	.00	.01
3	---	---	---	---	---	---	e.25	1.1	.13	.00	.00	.01
4	---	---	---	---	---	.58	e.25	.88	.14	.00	.00	.00
5	---	---	---	---	---	.49	e.26	.71	.07	.00	.00	.00
6	---	---	---	---	---	.55	e.27	.64	.05	.00	.00	.00
7	---	---	---	---	---	.66	e.26	.60	.03	.00	.00	.00
8	---	---	---	---	---	.49	.27	.50	.02	.00	.00	.00
9	---	---	---	---	---	.72	.26	.50	.02	.00	.00	.00
10	---	---	---	---	---	.57	.27	.53	.02	.00	.00	.00
11	---	---	---	---	---	.45	.27	.42	.05	.00	.00	.00
12	---	---	---	---	---	.43	.28	.39	.05	.00	.00	.00
13	---	---	---	---	---	.36	.27	.59	.02	.00	.00	.00
14	---	---	---	---	---	.33	.27	.54	.01	.00	.00	.00
15	---	---	---	---	---	.29	.27	.33	.01	.00	.00	.00
16	---	---	---	---	---	.28	.27	.24	.01	.00	.00	.01
17	---	---	---	---	---	.25	.27	.19	.02	.00	.00	.00
18	---	---	---	---	---	.23	.27	.15	.02	.00	.00	.00
19	---	---	---	---	---	.21	.27	.13	.02	.00	.00	.00
20	---	---	---	---	---	.23	.34	.12	.01	.00	.00	.00
21	---	---	---	---	---	.22	.35	.14	.01	.00	.00	.02
22	---	---	---	---	---	.20	.34	.17	.02	.00	.00	.03
23	---	---	---	---	---	.17	.33	.15	.01	.00	.00	.02
24	---	---	---	---	---	.18	.27	.15	.01	.00	.00	.02
25	---	---	---	---	---	.19	1.1	.23	.00	.00	.00	.01
26	---	---	---	---	---	.21	.63	.23	.00	.00	.00	.01
27	---	---	---	---	---	.24	.72	.17	.00	.00	.00	.01
28	---	---	---	---	---	e.26	.89	.22	.00	.00	.00	.01
29	---	---	---	---	---	e.27	1.6	.14	.00	.00	.00	.01
30	---	---	---	---	---	e.28	2.5	.08	.00	.00	.00	.02
31	---	---	---	---	---	e.27	---	.11	---	.00	.01	---
TOTAL	---	---	---	---	---	---	14.12	12.95	0.95	0.00	0.01	0.20
MEAN	---	---	---	---	---	---	.47	.42	.032	.000	.000	.007
MAX	---	---	---	---	---	---	2.5	1.4	.14	.00	.01	.03
MIN	---	---	---	---	---	---	.25	.08	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	28	26	1.9	.00	.02	.4

e Estimated

Table 29.--Daily mean discharge, GS17 (Woman Creek Above Pond C-1), water year 1995

WOMAN CREEK ABOVE POND C-1

SITE NUMBER.--GS17

STATION IDENTIFICATION.--395309105114100

LOCATION.--Lat 39°53'09", long 105°11'41", in SE¹/4SW¹/4 sec.11, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 500 feet upstream from Pond C-1, and 1,500 feet downstream from the Antelope Springs confluence.

DRAINAGE AREA.--1.17 mi².

PERIOD OF RECORD.--March 1994 to May 1995. Station discontinued May 20, 1995.

GAGE.--Water-stage recorder and Parshall flume with weir plate. Elevation of gage is 5,860 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.07	.19	e.10	.42	.14	.27	e2.5	---	---	---	---
2	.03	.08	.15	e.00	.74	.16	.21	e2.1	---	---	---	---
3	.02	.12	.13	e.00	.18	.26	.19	e2.7	---	---	---	---
4	.03	.15	.13	e.00	.17	.20	.16	e2.4	---	---	---	---
5	.03	.24	.12	e.00	.16	.17	.15	1.4	---	---	---	---
6	.03	.17	.13	e.00	.16	.19	.14	1.1	---	---	---	---
7	.03	.13	.13	e.14	.15	.20	.13	.85	---	---	---	---
8	.03	.16	.12	e.23	.15	.35	.11	.87	---	---	---	---
9	.03	.27	.04	e.29	.16	.44	.14	.70	---	---	---	---
10	.03	.25	.00	e.33	e.15	.25	.19	.59	---	---	---	---
11	.03	.16	e.02	e.29	e.14	.19	.34	.57	---	---	---	---
12	.02	.16	e.00	e.26	e.13	.15	1.1	.53	---	---	---	---
13	.03	.13	e.02	e.24	e.12	.14	.54	.40	---	---	---	---
14	.03	.20	.10	e.22	e.30	.13	.28	.51	---	---	---	---
15	.04	.11	e.07	e.23	.29	.14	.20	.40	---	---	---	---
16	.05	.25	.14	e.21	.28	.14	.23	e.60	---	---	---	---
17	.73	.20	.18	e.18	.32	.19	1.1	e60	---	---	---	---
18	.74	.15	.19	.15	.51	.15	1.3	e1.0	---	---	---	---
19	.05	.15	e.21	.11	.35	.13	e2.5	e1.9	---	---	---	---
20	.05	.21	e.23	.12	.25	.13	e2.7	---	---	---	---	---
21	.04	.17	e.24	.08	.21	.11	e3.0	---	---	---	---	---
22	.04	.15	e.25	e.00	.19	.10	e3.2	---	---	---	---	---
23	.05	.17	e.24	e.00	.17	.11	e3.1	---	---	---	---	---
24	.05	.19	e.25	e.00	.16	.10	e3.3	---	---	---	---	---
25	.05	.19	e.26	e.13	.15	.11	e2.7	---	---	---	---	---
26	.05	.17	e.27	e.19	.14	.18	e4.4	---	---	---	---	---
27	.05	.11	e.25	e.22	.15	.20	e5.2	---	---	---	---	---
28	.05	.09	e.23	.17	.15	.25	e2.9	---	---	---	---	---
29	.07	.07	e.21	.19	---	.25	e4.9	---	---	---	---	---
30	.07	.13	e.16	.20	---	.38	e4.4	---	---	---	---	---
31	.08	---	e.13	.34	---	.41	---	---	---	---	---	---
TOTAL	2.66	4.80	4.79	4.62	5.95	6.05	49.08	---	---	---	---	---
MEAN	.086	.16	.15	.15	.21	.20	1.64	---	---	---	---	---
MAX	.74	.27	.27	.34	.51	.44	5.2	---	---	---	---	---
MIN	.02	.07	.00	.00	.12	.10	.11	---	---	---	---	---
AC-FT	5.3	9.5	9.5	9.2	12	12	97	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994
MEAN	.086	.16	.15	.15	.21	.20	1.05	.42	.032	.000	.000	.007
MAX	.086	.16	.15	.15	.21	.20	1.64	.42	.032	.000	.000	.007
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994
MIN	.086	.16	.15	.15	.21	.20	.47	.42	.032	.000	.000	.007
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

WATER YEARS 1994 - 1995

HIGHEST DAILY MEAN	60	May 17 1995
LOWEST DAILY MEAN	a.00	Jun 25 1994
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 25 1994
10 PERCENT EXCEEDS	.60	
50 PERCENT EXCEEDS	.15	
90 PERCENT EXCEEDS	.00	

a No flow many days
e Estimated

Table 30.--Daily mean discharge, GS18 (Woman Creek Above Old Landfill), water year 1994

WOMAN CREEK ABOVE OLD LANDFILL

SITE NUMBER.--GS18

STATION IDENTIFICATION.--395308105123100

LOCATION.--Lat 39°53'08", long 105°12'31", in NW¹/4NE¹/4 sec.15, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 500 feet upstream from the old landfill, and 1,750 feet downstream from the confluence of North and South Woman Creeks.

DRAINAGE AREA.--0.78 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume with weir plate. Elevation of gage is 5,953 ft above sea level.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.22	.86	.02	.00	.00	.00
2	---	---	---	---	---	---	.19	.99	.02	.00	.00	.00
3	---	---	---	---	---	---	.15	.77	.03	.00	.00	.00
4	---	---	---	---	---	---	.11	.64	.04	.00	.00	.00
5	---	---	---	---	---	---	.17	.51	.02	.00	.00	.00
6	---	---	---	---	---	---	.28	.43	.01	.00	.00	.00
7	---	---	---	---	---	---	.20	.37	.01	.00	.00	.00
8	---	---	---	---	---	---	.12	.30	.00	.00	.00	.00
9	---	---	---	---	---	---	.17	.29	.00	.00	.00	.00
10	---	---	---	---	---	---	.40	.31	.01	.00	.00	.00
11	---	---	---	---	---	---	.46	.23	.07	.00	.00	.00
12	---	---	---	---	---	---	1.3	.21	.04	.00	.00	.00
13	---	---	---	---	---	---	1.2	.25	.02	.00	.00	.00
14	---	---	---	---	---	---	.60	.25	.01	.00	.00	.00
15	---	---	---	---	---	---	.43	.13	.00	.00	.00	.00
16	---	---	---	---	---	---	.34	.09	.01	.00	.00	.00
17	---	---	---	---	---	.05	.31	.06	.04	.00	.00	.00
18	---	---	---	---	---	.02	.29	.05	.02	.00	.00	.00
19	---	---	---	---	---	.01	.28	.04	.01	.00	.00	.00
20	---	---	---	---	---	.02	.25	.03	.00	.00	.00	.00
21	---	---	---	---	---	.01	.20	.07	.00	.00	.00	.00
22	---	---	---	---	---	.00	.19	.09	.00	.00	.00	.00
23	---	---	---	---	---	.02	.19	.07	.00	.00	.00	.00
24	---	---	---	---	---	.01	.14	.09	.00	.00	.00	.00
25	---	---	---	---	---	.01	.49	.14	.00	.00	.00	.00
26	---	---	---	---	---	.04	.35	.11	.00	.00	.00	.00
27	---	---	---	---	---	.10	.45	.08	.00	.00	.00	.00
28	---	---	---	---	---	.20	.52	.10	.00	.00	.00	.00
29	---	---	---	---	---	.27	1.0	.04	.00	.00	.00	.00
30	---	---	---	---	---	.47	1.9	.02	.00	.00	.00	.00
31	---	---	---	---	---	.35	---	.02	---	.00	.00	---
TOTAL	---	---	---	---	---	---	12.90	7.64	0.38	0.00	0.00	0.00
MEAN	---	---	---	---	---	---	.43	.25	.013	.000	.000	.000
MAX	---	---	---	---	---	---	1.9	.99	.07	.00	.00	.00
MIN	---	---	---	---	---	---	.11	.02	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	26	15	.8	.00	.00	.00

Table 31.--Daily mean discharge, GS18 (Woman Creek Above Old Landfill), water year 1995

WOMAN CREEK ABOVE OLD LANDFILL

SITE NUMBER.--GS18

STATION IDENTIFICATION.--395308105123100

LOCATION.--Lat 39°53'08", long 105°12'31", in NW¹/4NE¹/4 sec.15, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 500 feet upstream from the old landfill, and 1,750 feet downstream from the confluence of North and South Woman Creeks.

DRAINAGE AREA.--0.78 mi².

PERIOD OF RECORD.--March 1994 to May 1995. Station discontinued May 3, 1995.

GAGE.--Water-stage recorder and Parshall flume with weir plate. Elevation of gage is 5,953 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.04	e.00	e.05	.00	.00	.03	e.03	e1.4	---	---	---	---
2	e.02	e.01	e.04	.00	.03	.03	e.03	e1.4	---	---	---	---
3	e.00	e.02	e.03	.00	.05	e.02	e.03	---	---	---	---	---
4	e.00	e.03	e.02	.00	e.05	.03	e.03	---	---	---	---	---
5	e.00	e.04	e.02	.00	e.05	.03	.03	---	---	---	---	---
6	e.00	e.02	e.02	.00	.04	.03	.01	---	---	---	---	---
7	e.00	e.01	e.02	.00	.03	.03	.02	---	---	---	---	---
8	e.00	e.03	e.02	.00	.03	e.03	.01	---	---	---	---	---
9	e.00	e.06	e.02	.00	.03	e.03	.00	---	---	---	---	---
10	e.00	e.04	e.02	.00	.03	e.03	.00	---	---	---	---	---
11	e.00	e.04	e.01	.00	.03	e.03	.00	---	---	---	---	---
12	e.00	e.04	.00	.00	.03	e.03	e.22	---	---	---	---	---
13	e.00	e.04	.00	e.03	.03	e.03	e.08	---	---	---	---	---
14	e.00	e.08	.00	.00	.03	e.00	e.03	---	---	---	---	---
15	e.00	e.19	.00	.00	.03	e.03	e.03	---	---	---	---	---
16	e.02	e.06	.00	.00	.03	e.02	e.03	---	---	---	---	---
17	e.08	e.05	e.02	e.02	e.03	e.02	e.31	---	---	---	---	---
18	e.02	e.02	.00	.00	e.03	e.03	e.60	---	---	---	---	---
19	e.00	e.00	.00	.00	e.03	e.03	e1.6	---	---	---	---	---
20	e.00	e.02	.00	.00	e.03	e.03	e1.3	---	---	---	---	---
21	e.00	e.04	.00	.00	e.03	e.03	e1.9	---	---	---	---	---
22	e.00	e.02	.00	.00	e.03	e.03	e3.1	---	---	---	---	---
23	e.00	e.02	.00	.00	e.02	e.03	e2.8	---	---	---	---	---
24	e.00	e.02	e.02	e.02	e.02	e.03	e3.5	---	---	---	---	---
25	e.00	e.02	.00	.00	e.02	.03	e2.4	---	---	---	---	---
26	e.00	e.02	.00	.00	e.03	.03	e3.3	---	---	---	---	---
27	e.00	e.02	.00	.00	e.03	.03	e4.5	---	---	---	---	---
28	e.00	e.02	.00	.00	.03	.03	e3.2	---	---	---	---	---
29	e.00	e.05	.00	.00	---	.03	e4.0	---	---	---	---	---
30	e.00	e.10	.00	.00	---	.03	e4.1	---	---	---	---	---
31	e.00	---	.00	.00	---	.03	---	---	---	---	---	---
TOTAL	0.18	1.13	0.21	0.07	0.85	0.87	37.19	---	---	---	---	---
MEAN	.006	.038	.010	.002	.030	.028	.83	.25	.013	.000	.000	.000
MAX	.006	.038	.010	.002	.030	.028	1.24	.25	.013	.000	.000	.000
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994
MIN	.006	.038	.010	.002	.030	.028	.43	.25	.013	.000	.000	.000
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994
AC-FT	.4	2.2	.6	.1	1.7	1.7	74	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	.006	.038	.010	.002	.030	.028	.83	.25	.013	.000	.000	.000
MAX	.006	.038	.010	.002	.030	.028	1.24	.25	.013	.000	.000	.000
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994
MIN	.006	.038	.010	.002	.030	.028	.43	.25	.013	.000	.000	.000
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

WATER YEARS 1994 - 1995

HIGHEST DAILY MEAN	4.5	Apr 27 1995
LOWEST DAILY MEAN	a.00	Mar 22 1994
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 20 1994
10 PERCENT EXCEEDS	.30	
50 PERCENT EXCEEDS	.02	
90 PERCENT EXCEEDS	.00	

a No flow many days
e Estimated

Table 32.--Daily mean discharge, SW027 (South Interceptor Ditch Above Pond C-2), water year 1995

SOUTH INTERCEPTOR DITCH ABOVE POND C-2

SITE NUMBER.--SW027

STATION IDENTIFICATION.--395313105110500

LOCATION.--Lat 39°53'12", long 105°11'04", in SE¹/4SE¹/4 sec.11, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, at entrance to dual 66-inch corrugated metal culverts (CMPs) that convey water in the South Interceptor Ditch under Woman Creek and into Pond C-2.

DRAINAGE AREA.--0.29 mi².

PERIOD OF RECORD.--October 1995 to current year. No daily-discharge data for 1994 water year; 1994 daily-stage data (for stage-activated water-quality sampling) reported by Rocky Mountain Remediation Services, L.L.C. (1995).

GAGE.--Water-stage recorder and 66-inch corrugated metal culverts with (starting April) V-notch weirs. Elevation of gage is 5,765 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e.00	.00	e.00	.00	.14	.10	.34	.05	.00	.00
2	.00	.00	e.00	.00	e.00	.00	.11	.03	.37	.02	.00	.00
3	.00	.00	e.00	.00	e.00	.00	.12	.16	.88	.01	.00	.00
4	.00	.00	e.00	.00	e.00	.00	.08	.22	.51	.01	.00	.00
5	.00	.00	e.00	.00	e.00	.00	.01	.02	.26	.00	.00	.00
6	.00	.03	e.00	.00	e.00	.00	.00	.01	.09	.00	.00	.00
7	.00	.00	e.00	.00	.00	.00	.00	.01	.05	.00	.00	.00
8	.00	.00	e.00	.00	.00	.01	.00	.01	.72	.00	.00	.00
9	.00	.10	e.00	.00	.00	.36	.00	.00	2.7	.00	.00	.00
10	.00	.07	.00	.00	.00	.14	.00	.00	.26	.00	.00	.00
11	.00	.01	.00	.00	.00	.11	.03	.00	.18	.00	.00	.00
12	.00	.00	.00	.00	.00	.08	.21	.00	.10	.00	.00	.00
13	.00	.00	.00	e.00	.00	.05	.07	.00	.06	.00	.00	.00
14	.00	.00	.00	e.00	.00	.00	.01	.00	.04	.00	.00	.00
15	.00	e.00	.00	e.00	.33	.00	.00	.00	.02	.00	.00	.00
16	.00	.01	.00	e.00	.28	.00	.00	.00	.02	.00	.00	.00
17	.04	.00	.00	e.00	.33	.00	.27	e2.9	.03	.00	.00	.00
18	.06	.00	.00	e.00	.42	.00	.23	e.70	.23	.00	.00	.00
19	.00	e.00	.00	e.00	.17	.00	.74	.37	.02	.00	.00	.00
20	.00	.00	.00	e.00	.11	.00	.29	.09	.01	.00	.00	.00
21	.00	e.00	.00	e.00	.07	.00	.40	.06	.01	.00	.00	.17
22	.00	.00	.00	e.00	.06	.00	.49	.03	.01	.00	.00	.16
23	.00	.58	.00	e.00	.05	.00	.15	.86	.01	.00	.00	.07
24	.00	2.7	.00	e.00	.03	.00	.37	1.3	.03	.00	.00	.01
25	.00	.00	.00	e.00	.00	.00	.06	.46	.01	.00	.00	.01
26	.00	.00	.00	e.00	.00	.00	1.1	.28	.01	.00	.00	.00
27	.00	.00	.00	e.00	.00	.00	.55	2.3	.01	.00	.00	.00
28	.00	e.00	.00	e.00	.00	.00	.19	1.5	.15	.00	.00	.00
29	.00	e.00	.00	e.00	---	.00	.80	1.2	.91	.00	.00	.05
30	.00	e.00	.00	e.00	---	.00	.63	.66	.12	.00	.00	.16
31	.00	---	.00	e.00	---	.20	---	.39	---	.00	.00	---
TOTAL	0.10	3.50	0.00	0.00	1.85	0.95	7.05	13.66	8.16	0.09	0.00	0.63
MEAN	.003	.12	.000	.000	.066	.031	.23	.44	.27	.003	.000	.021
MAX	.06	2.7	.00	.00	.42	.36	1.1	2.9	2.7	.05	.00	.17
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
AC-FT	.2	6.9	.00	.00	3.7	1.9	14	27	16	.2	.00	1.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEAR 1995

MEAN	.003	.12	.000	.000	.066	.031	.23	.44	.27	.003	.000	.021
MAX	.003	.12	.000	.000	.066	.031	.23	.44	.27	.003	.000	.021
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	.003	.12	.000	.000	.066	.031	.23	.44	.27	.003	.000	.021
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS

FOR 1995 WATER YEAR

ANNUAL TOTAL	35.99
ANNUAL MEAN	.099
HIGHEST DAILY MEAN	2.9 May 17
LOWEST DAILY MEAN	a.00 Oct 1
ANNUAL SEVEN-DAY MINIMUM	.00 Oct 1
ANNUAL RUNOFF (AC-FT)	71
10 PERCENT EXCEEDS	.26
50 PERCENT EXCEEDS	.00
90 PERCENT EXCEEDS	.00

a No flow many days
e Estimated

Table 33.--Daily mean discharge, SW029 (Pond C-1), water year 1994

POND C-1

SITE NUMBER.--SW029

STATION IDENTIFICATION.--395310105113300

LOCATION.--Lat 39°53'10", long 105°11'33", in SW¹/₄SE¹/₄ sec.11, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, outfall of Pond C-1 to Woman Creek.

DRAINAGE AREA.--1.26 mi².

PERIOD OF RECORD.--May 1994 to current year.

GAGE.--Water-stage recorder and V-notch weir, with broad-crested weir and culvert for high flows. Elevation of gage is 5,830 ft above sea level.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.10	.00	.00	.00
2	---	---	---	---	---	---	---	---	.06	.00	.00	.00
3	---	---	---	---	---	---	---	---	.07	.00	.00	.00
4	---	---	---	---	---	---	---	---	.11	.00	.00	.00
5	---	---	---	---	---	---	---	---	.06	.00	.00	.00
6	---	---	---	---	---	---	---	---	.03	.00	.00	.00
7	---	---	---	---	---	---	---	---	.02	.00	.00	.00
8	---	---	---	---	---	---	---	---	.01	.00	.00	.00
9	---	---	---	---	---	---	---	---	.01	.00	.00	.00
10	---	---	---	---	---	---	---	---	.01	.00	.00	.00
11	---	---	---	---	---	---	---	.55	.01	.00	.00	.00
12	---	---	---	---	---	---	---	.49	.02	.00	.00	.00
13	---	---	---	---	---	---	---	.57	.01	.00	.00	.00
14	---	---	---	---	---	---	---	.75	.00	.00	.00	.00
15	---	---	---	---	---	---	---	.44	.00	.00	.00	.00
16	---	---	---	---	---	---	---	.32	.00	.00	.00	.00
17	---	---	---	---	---	---	---	.25	.00	.00	.00	.00
18	---	---	---	---	---	---	---	.23	.00	.00	.00	.00
19	---	---	---	---	---	---	---	.18	.00	.00	.00	.00
20	---	---	---	---	---	---	---	.15	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.15	.01	.00	.00	.00
22	---	---	---	---	---	---	---	.18	.03	.00	.00	.00
23	---	---	---	---	---	---	---	.16	.01	.00	.00	.00
24	---	---	---	---	---	---	---	.13	.00	.00	.00	.00
25	---	---	---	---	---	---	---	.17	.00	.00	.00	.00
26	---	---	---	---	---	---	---	.18	.00	.00	.00	.00
27	---	---	---	---	---	---	---	.13	.00	.00	.00	.00
28	---	---	---	---	---	---	---	.13	.00	.00	.00	.00
29	---	---	---	---	---	---	---	.14	.00	.00	.00	.00
30	---	---	---	---	---	---	---	.07	.00	.00	.00	.00
31	---	---	---	---	---	---	---	.05	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	---	0.57	0.00	0.00	0.00
MEAN	---	---	---	---	---	---	---	---	.019	.000	.000	.000
MAX	---	---	---	---	---	---	---	---	.11	.00	.00	.00
MIN	---	---	---	---	---	---	---	---	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	---	1.1	.00	.00	.00

Table 34.--Daily mean discharge, SW029 (Pond C-1), water year 1995

POND C-1

SITE NUMBER.--SW029

STATION IDENTIFICATION.--395310105113300

LOCATION.--Lat 39°53'10", long 105°11'33", in SW¹/4SE¹/4 sec.11, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, pond outfall to Woman Creek.

DRAINAGE AREA.--1.26 mi².

PERIOD OF RECORD.--May 1994 to current year.

GAGE.--Water-stage recorder and V-notch weir, with broad-crested weir and culvert for high flows. Elevation of gage is 5,830 ft above sea level.

REMARKS.--Records good for discharges less than 1.8 ft³/s. Records poor for discharges larger than 1.8 ft³/s, and for estimated daily discharges.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.04	.31	.14	.86	.28	.58	4.6	3.4	.89	3.4	.00
2	.00	.04	.33	.10	.66	.23	.33	4.0	3.5	.50	.21	.00
3	.00	.08	.27	.07	.59	.39	.30	6.4	11	.31	.08	.00
4	.00	.14	.27	.04	.47	.47	.24	5.7	6.5	.25	.05	.00
5	.00	.23	.25	.02	.39	.39	.24	3.2	4.0	.19	.05	.00
6	.00	.24	.25	.05	.35	.45	.19	3.1	1.1	.10	.03	.00
7	.00	.11	.28	.09	.29	.39	.14	3.1	.69	.09	.02	.00
8	.00	.13	.28	.20	.23	.82	.12	3.1	12	.15	.01	.00
9	.00	.24	.17	.35	.22	1.9	.17	2.0	39	.15	.00	.00
10	.00	.27	.10	.49	.22	.83	.32	.71	7.1	.19	.00	.00
11	.00	.14	.10	.41	.18	.33	.54	1.4	4.6	.14	.00	.00
12	.00	.11	.11	.37	.21	.24	3.4	.88	1.5	.07	.00	.00
13	.00	.11	.11	.30	.16	.14	1.6	.72	1.1	.06	.00	.00
14	.00	.23	.13	.28	.30	.10	.32	1.3	.74	.17	.00	.00
15	.00	.27	.10	.35	.87	.13	.06	.95	.59	.20	.00	.00
16	.00	.36	.07	.32	.43	.15	.05	.97	.75	.13	.00	.00
17	e.50	.57	.12	.18	.65	.23	1.2	93	1.2	.11	.00	.00
18	e1.0	.57	.18	.08	1.6	.18	2.5	1.4	5.8	.10	.00	.00
19	.04	.57	.26	.06	1.2	.21	7.5	3.9	1.7	.15	.00	.00
20	.03	.51	.28	.13	.91	.29	6.9	2.3	.86	.22	.00	.00
21	.03	.34	.33	.16	.73	.28	7.0	1.4	.55	.11	.00	.00
22	e.03	.22	.36	.09	.50	.19	9.7	.93	.39	.06	.00	.00
23	e.03	.12	.34	.06	.29	.13	8.9	11	.33	.04	.00	.08
24	e.03	.18	.36	.06	.26	.07	11	20	.81	.04	.00	.09
25	.04	.20	.38	.10	.23	.04	5.4	8.1	.55	.02	.00	.10
26	.04	.19	.39	.19	.20	.08	15	6.0	.31	.01	.00	.09
27	.03	.15	.33	.29	.18	.14	22	33	.17	.00	.00	.08
28	.02	.09	.30	.24	.27	.19	7.5	19	1.3	.00	.00	.07
29	.02	.06	.29	.26	---	.24	19	20	8.2	3.6	.00	.09
30	.03	.11	.29	.22	---	.35	17	12	1.7	7.8	.00	.19
31	.04	---	.23	.44	---	.72	---	5.4	---	6.6	.00	---
TOTAL	1.91	6.62	7.57	6.14	13.45	10.58	149.20	279.56	121.44	22.45	3.85	0.79
MEAN	.062	.22	.24	.20	.48	.34	4.97	9.02	4.05	.72	.12	.026
MAX	1.0	.57	.39	.49	1.6	1.9	22	93	39	7.8	3.4	.19
MIN	.00	.04	.07	.02	.16	.04	.05	.71	.17	.00	.00	.00
AC-FT	3.8	13	15	12	27	21	296	555	241	45	7.6	1.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	.062	.22	.24	.20	.48	.34	4.97	9.02	2.03	.36	.062	.013
MAX	.062	.22	.24	.20	.48	.34	4.97	9.02	4.05	.72	.12	.026
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	.062	.22	.24	.20	.48	.34	4.97	9.02	.019	.000	.000	.000
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	623.56	
ANNUAL MEAN	1.71	1.71
HIGHEST ANNUAL MEAN		1.71
LOWEST ANNUAL MEAN		1.71
HIGHEST DAILY MEAN	93	93
LOWEST DAILY MEAN	a.00	a.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00
ANNUAL RUNOFF (AC-FT)	1,240	1,240
10 PERCENT EXCEEDS	4.0	1.9
50 PERCENT EXCEEDS	.22	.11
90 PERCENT EXCEEDS	.00	.00

a No flow many days
e Estimated

Table 35.--Daily mean discharge, SW093 (Walnut Creek Below Portal 3), water year 1994

WALNUT CREEK BELOW PORTAL 3

SITE NUMBER.--SW093

STATION IDENTIFICATION.--395349105114900

LOCATION.--Lat 39°53'49", long 105°11'49", in NE¹/₄NW¹/₄ sec.11, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 1,000 feet above the A-1 Bypass, and 15 feet below a 60-inch corrugated metal culvert.

DRAINAGE AREA.--0.36 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume with weir plate. Elevation of gage is 5,895 ft above sea level.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.25	.46	.14	.05	.07	.07
2	---	---	---	---	---	---	.25	.44	.09	.05	.07	.03
3	---	---	---	---	---	---	.21	.33	.39	.05	.07	.03
4	---	---	---	---	---	---	.20	.26	.14	.05	.07	.03
5	---	---	---	---	---	---	.41	.23	.09	.05	.08	.03
6	---	---	---	---	---	---	.31	.20	.08	.05	.07	.02
7	---	---	---	---	---	---	.22	.19	.07	.06	.08	.02
8	---	---	---	---	---	---	.15	.17	.07	.06	.08	.02
9	---	---	---	---	---	---	.57	.25	.07	.05	.08	.02
10	---	---	---	---	---	---	1.8	.18	.07	.05	.51	.02
11	---	---	---	---	---	---	.87	.18	.06	.05	.45	.02
12	---	---	---	---	---	---	1.1	.17	.06	.06	.06	.03
13	---	---	---	---	---	---	.50	.72	.05	.05	.06	.03
14	---	---	---	---	---	---	.36	.28	.05	.06	.05	.03
15	---	---	---	---	---	---	.30	.18	.06	.05	.03	.03
16	---	---	---	---	---	---	.26	.19	.05	.05	.01	.03
17	---	---	---	---	---	---	.23	.14	.06	.06	.02	.03
18	---	---	---	---	---	---	.21	.11	.07	.05	.02	.03
19	---	---	---	---	---	---	.19	.10	.08	.05	.05	.03
20	---	---	---	---	---	---	.18	.10	.08	.05	.03	.04
21	---	---	---	---	---	.08	.17	.08	.28	.05	.03	.24
22	---	---	---	---	---	.08	.17	.10	.17	.05	.02	.11
23	---	---	---	---	---	.07	.16	.11	.07	.05	.02	.04
24	---	---	---	---	---	.07	.14	.08	.06	.06	.02	.03
25	---	---	---	---	---	.08	1.3	.11	.05	.05	.03	.03
26	---	---	---	---	---	.10	.40	.10	.05	.05	.03	.03
27	---	---	---	---	---	.30	.48	.09	.05	.07	.03	.03
28	---	---	---	---	---	.23	.41	.31	.05	.06	.06	.03
29	---	---	---	---	---	.89	1.6	.10	.05	.06	.06	.03
30	---	---	---	---	---	.57	.86	.08	.05	.06	.03	.03
31	---	---	---	---	---	.32	---	.33	---	.06	.08	---
TOTAL	---	---	---	---	---	---	14.26	6.37	2.71	1.67	2.37	1.19
MEAN	---	---	---	---	---	---	.48	.21	.090	.054	.076	.040
MAX	---	---	---	---	---	---	1.8	.72	.39	.07	.51	.24
MIN	---	---	---	---	---	---	.14	.08	.05	.05	.01	.02
AC-FT	---	---	---	---	---	---	.28	.13	5.4	3.3	4.7	2.4

Table 36.--Daily mean discharge, SW093 (Walnut Creek Below Portal 3), water year 1995

WALNUT CREEK BELOW PORTAL 3

SITE NUMBER.--SW093

STATION IDENTIFICATION.--395349105114900

LOCATION.--Lat 39°53'49", long 105°11'49", in NE¹/4NW¹/4 sec.11, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, 1,000 feet above the A-1 Bypass, and 15 feet below a 60-inch corrugated metal culvert.

DRAINAGE AREA.--0.36 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume with weir plate. Elevation of gage is 5,895 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.07	.08	e.00	.12	.03	.12	.71	.63	.19	.05	.06
2	.14	.06	.07	e.00	.07	.00	.11	.71	e1.4	.13	.04	.06
3	.05	.11	.04	e.00	.08	.00	.09	.97	e1.8	.10	.04	.05
4	.04	.36	e.04	e.00	.06	.00	.08	.60	1.4	.09	.05	.06
5	.04	.23	e.04	e.00	.06	.00	.08	.43	.60	.11	.04	.06
6	.05	.12	e.08	e.00	.05	.00	.07	.40	.48	.05	.03	.07
7	.05	.10	e.07	e.00	.05	.12	.07	.36	.37	.03	.03	.08
8	.04	.72	e.09	e.00	.05	.19	.07	.33	2.9	.03	.03	.08
9	.04	.38	e.08	e.00	.06	e.15	.12	.30	4.7	.02	.03	.16
10	.04	.09	e.08	e.00	e.05	.10	.50	.29	.75	.02	.04	.08
11	.03	.04	e.06	e.00	e.01	.08	.63	.29	.55	.02	.04	.08
12	.04	.03	e.06	e.00	e.00	.08	.75	.27	.41	.01	.05	.08
13	.05	.02	e.06	e.03	e.00	.07	.33	.26	.35	.00	.04	.07
14	.03	.32	e.06	e.04	e.60	.06	.19	.23	.32	.09	.05	.08
15	.06	.08	e.04	e.04	.19	.06	.12	.19	.29	.06	.04	.08
16	.06	.09	e.07	e.03	.09	.08	.39	1.0	.23	.04	.04	.08
17	.53	.08	e.07	e.04	.23	.08	1.5	e11	.54	.03	.05	.08
18	.06	.05	e.07	e.03	.17	.06	1.7	1.6	.30	.24	.28	.30
19	.05	.05	e.09	e.03	.12	.06	1.9	.75	.20	.12	.14	.28
20	.05	.07	e.09	e.03	.10	.05	.85	.55	.18	.06	.09	.51
21	.05	.08	.03	e.04	.11	.06	2.2	.44	.17	.05	.05	.76
22	.05	.08	e.01	e.04	.15	.06	1.3	.43	.16	.04	.05	.30
23	.05	.09	e.00	e.04	.14	.05	1.1	3.3	.27	.04	.05	.14
24	.05	.08	e.00	e.04	.10	.05	.99	2.9	.25	.04	.05	.15
25	.05	.08	e.00	e.05	.05	.05	1.6	1.3	.17	.04	.05	.08
26	.05	.08	e.00	.05	.05	.18	3.3	e2.1	.13	.04	.05	.06
27	.06	.08	e.00	.05	.05	.09	1.7	e4.1	.09	.03	.05	.05
28	.08	.08	e.00	.05	.05	.28	1.4	e4.3	.74	.03	.05	.05
29	.07	.06	e.00	.10	---	.21	2.3	2.0	2.3	.04	.05	.21
30	.06	.07	e.00	.08	---	.20	2.3	1.5	.29	.04	.05	.43
31	.07	---	e.00	.12	---	.17	---	1.3	---	.05	.05	---
TOTAL	2.17	3.85	1.38	0.93	2.86	2.67	27.86	44.91	22.97	1.88	1.75	4.63
MEAN	.070	.13	.045	.030	.10	.086	.93	1.45	.77	.061	.056	.15
MAX	.53	.72	.09	.12	.60	.28	3.3	11	4.7	.24	.28	.76
MIN	.03	.02	.00	.00	.00	.00	.07	.19	.09	.00	.03	.05
AC-FT	4.3	7.6	2.7	1.8	5.7	5.3	55	89	46	3.7	3.5	9.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	.070	.13	.045	.030	.10	.086	.70	.83	.43	.057	.066	.097
MAX	.070	.13	.045	.030	.10	.086	.93	1.45	.77	.061	.076	.15
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1995
MIN	.070	.13	.045	.030	.10	.086	.48	.21	.090	.054	.056	.040
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1995	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	117.86		
ANNUAL MEAN	.32		
HIGHEST ANNUAL MEAN		.32	1995
LOWEST ANNUAL MEAN		.32	1995
HIGHEST DAILY MEAN	11	May 17	1995
LOWEST DAILY MEAN	a.00	Dec 23	1994
ANNUAL SEVEN-DAY MINIMUM	.00	Dec 23	1994
ANNUAL RUNOFF (AC-FT)	234		
10 PERCENT EXCEEDS	.75		
50 PERCENT EXCEEDS	.07		
90 PERCENT EXCEEDS	.03		

- a No flow many days
- b No flow at times most years
- e Estimated

Table 37.--Daily mean discharge, SW134 (Gravel Pit at Rocky Flats), water year 1994

GRAVEL PIT AT ROCKY FLATS

SITE NUMBER.--SW134

STATION IDENTIFICATION.--395331105134400

LOCATION.--Lat 39°53'31", long 105°13'44", in NE¹/4SW¹/4 sec.9, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, at discharge point for surface water ponded in gravel pits situated in upper Rock Creek Basin.

DRAINAGE AREA.--Unknown; pumped direct discharge from gravel pits.

PERIOD OF RECORD.--May 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,150 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.00	.00	.00
2	---	---	---	---	---	---	---	---	.03	.00	.00	.00
3	---	---	---	---	---	---	---	---	.00	.00	.00	.00
4	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
5	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.00	.00	.03	.00
7	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
8	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
9	---	---	---	---	---	---	---	.07	.00	.00	.00	.00
10	---	---	---	---	---	---	---	.00	.03	.00	.00	.07
11	---	---	---	---	---	---	---	.00	.00	.00	.02	.00
12	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
13	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
14	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
15	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
16	---	---	---	---	---	---	---	.00	e.00	.00	.00	.00
17	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
18	---	---	---	---	---	---	---	e.00	.00	.00	.00	.00
19	---	---	---	---	---	---	---	.00	.04	.00	.00	.00
20	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
22	---	---	---	---	---	---	---	.00	.00	.06	.00	.00
23	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
24	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
25	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
26	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
27	---	---	---	---	---	---	---	.00	.04	.00	.00	.00
28	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
29	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
30	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
31	---	---	---	---	---	---	---	.00	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	---	0.14	0.06	0.05	0.07
MEAN	---	---	---	---	---	---	---	---	.005	.002	.002	.002
MAX	---	---	---	---	---	---	---	---	.04	.06	.03	.07
MIN	---	---	---	---	---	---	---	---	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	---	.3	.1	.1	.1

e Estimated

Table 38.--Daily mean discharge, SW134 (Gravel Pit at Rocky Flats), water year 1995

GRAVEL PIT AT ROCKY FLATS

SITE NUMBER.--SW134

STATION IDENTIFICATION.--395331105134400

LOCATION.--Lat 39°53'31", long 105°13'44", in NE¹/₄SW¹/₄ sec.9, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, at discharge point for surface water ponded in gravel pits situated in upper Rock Creek Basin.

DRAINAGE AREA.--Unknown; pumped direct discharge from gravel pits.

PERIOD OF RECORD.--May 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,150 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	e.00	.00	e.00	.00	.13	.10	.00	.00	.00
2	.00	.00	.00	e.00	.00	e.00	.00	.00	.28	.00	.00	.00
3	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	e.00	.00	.00	.00	.05	.00	.00	.00	.00
5	.00	.00	.00	e.00	.00	.00	.00	.26	.11	.00	.06	.04
6	.00	.00	.00	.00	.00	.00	.00	.00	.36	.05	.00	.00
7	.00	.00	.00	.00	.00	.23	.00	.00	.00	.00	.00	.00
8	.04	.00	e.00	.00	.00	e.00	.00	.00	.01	.00	.00	.02
9	.00	.00	e.00	.00	.00	.00	.00	.21	.49	.00	.00	.00
10	.00	.00	e.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	e.00	.00	.00	.00	.00	.05	.00	.00	.00	.00
12	.00	.00	e.00	.00	.00	.00	.14	.00	.12	.00	.00	.00
13	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	e.00	.00	e.00	.00	.00	.00	.00	.02	.00	.00
15	.00	.06	e.00	.00	e.00	.00	.00	.00	.04	.00	.00	.05
16	.00	.08	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	e.00	.00	.00	.00	.00	.00	.79	.00	.03	.00	.00
18	.00	e.00	.00	e.00	.00	.00	.00	.43	.00	.00	.10	.00
19	.00	e.00	.00	.00	.00	.00	.00	.48	.00	.00	.00	.00
20	.00	e.00	.00	.13	.00	.00	.02	.26	.05	.00	.00	.00
21	.00	e.00	.00	e.00	.00	.00	.08	.00	.00	.00	.00	.00
22	.00	e.00	.00	e.00	.16	.00	.14	.28	.00	.00	.00	.00
23	.00	e.00	.00	e.00	.00	.07	.00	.10	.05	.00	.06	.00
24	.00	.00	.00	e.00	.00	.00	.08	.20	.07	.00	.00	.00
25	.03	.00	.00	e.00	.00	.00	.47	.04	.00	.00	.01	.00
26	.00	.00	.00	.00	.00	.00	.38	.31	.08	.00	.00	.18
27	.00	e.00	.00	.00	.00	.00	.11	.01	.01	.00	.00	.05
28	.00	e.00	.00	.00	e.00	.00	.42	.01	.00	.09	.00	.00
29	.00	e.00	.00	.00	---	e.00	.00	.17	.06	.00	.00	.00
30	.00	.00	.00	.00	---	e.00	.00	.41	.13	.00	.04	.00
31	.00	---	.00	.00	---	e.00	---	.10	---	.00	.00	---
TOTAL	0.07	0.14	0.00	0.13	0.16	0.30	1.84	4.29	1.96	0.19	0.27	0.34
MEAN	.002	.005	.000	.004	.006	.010	.061	.14	.035	.004	.005	.007
MAX	.002	.005	.000	.004	.006	.010	.061	.14	.065	.006	.009	.011
(WY) 1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	.002	.005	.000	.004	.006	.010	.061	.14	.005	.002	.002	.002
(WY) 1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994
AC-FT	.1	.3	.00	.3	.3	.6	3.6	8.5	3.9	.4	.5	.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	.002	.005	.000	.004	.006	.010	.061	.14	.035	.004	.005	.007
MAX	.002	.005	.000	.004	.006	.010	.061	.14	.065	.006	.009	.011
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	.002	.005	.000	.004	.006	.010	.061	.14	.005	.002	.002	.002
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	9.69	
ANNUAL MEAN	.027	.027
HIGHEST ANNUAL MEAN		.027 1995
LOWEST ANNUAL MEAN		.027 1995
HIGHEST DAILY MEAN	.79 May 17	.79 May 17 1995
LOWEST DAILY MEAN	a.00 Oct 1	a.00 May 4 1994
ANNUAL SEVEN-DAY MINIMUM	.00 Oct 1	.00 May 10 1994
ANNUAL RUNOFF (AC-FT)	19	19
10 PERCENT EXCEEDS	.08	.05
50 PERCENT EXCEEDS	.00	.00
90 PERCENT EXCEEDS	.00	.00

a No flow many days
e Estimated

Table 39.--Daily mean discharge, SW998 (T-130 Ditch at McKay Bypass), water year 1994

T-130 DITCH AT MCKAY BYPASS

SITE NUMBER.--SW998

STATION IDENTIFICATION.--395332105124600

LOCATION.--Lat 39°53'32", long 105°12'46", in SW¹/₄SW¹/₄ sec.10, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, on West Diversion Ditch downstream from the 130-building complex.

DRAINAGE AREA.--0.33 mi².

PERIOD OF RECORD.--May 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume with weir plate. Elevation of gage is 6,047 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.01	.00	.00	.03
2	---	---	---	---	---	---	---	---	.00	.00	.00	.00
3	---	---	---	---	---	---	---	---	.20	.00	.00	.00
4	---	---	---	---	---	---	---	---	.01	.00	.00	.00
5	---	---	---	---	---	---	---	---	.00	.00	.00	.00
6	---	---	---	---	---	---	---	---	.00	.00	.00	.00
7	---	---	---	---	---	---	---	---	.00	.00	.00	.00
8	---	---	---	---	---	---	---	---	.00	.00	.00	.00
9	---	---	---	---	---	---	---	---	.00	.00	.00	.00
10	---	---	---	---	---	---	---	---	.00	.00	.13	.00
11	---	---	---	---	---	---	---	---	.00	.00	.04	.00
12	---	---	---	---	---	---	---	---	.00	.00	.01	.00
13	---	---	---	---	---	---	---	---	.00	.00	.00	.00
14	---	---	---	---	---	---	---	---	.00	.00	.00	.00
15	---	---	---	---	---	---	---	---	.00	.00	.00	.00
16	---	---	---	---	---	---	---	---	.06	.00	.00	.00
17	---	---	---	---	---	---	---	---	.03	.00	.00	.00
18	---	---	---	---	---	---	---	e.20	.01	.00	.00	.00
19	---	---	---	---	---	---	---	.27	.01	.00	.03	.00
20	---	---	---	---	---	---	---	.12	.03	.00	.00	.00
21	---	---	---	---	---	---	---	.00	.02	.00	.00	.18
22	---	---	---	---	---	---	---	.00	.11	.00	.01	.04
23	---	---	---	---	---	---	---	.00	.01	.00	.01	.00
24	---	---	---	---	---	---	---	.00	.01	.00	e.01	.00
25	---	---	---	---	---	---	---	.00	.00	.00	e.01	.00
26	---	---	---	---	---	---	---	.00	.01	.00	e.01	.00
27	---	---	---	---	---	---	---	.00	.00	.00	e.01	.00
28	---	---	---	---	---	---	---	.14	.00	.00	e.01	.00
29	---	---	---	---	---	---	---	.00	.00	.00	e.01	.00
30	---	---	---	---	---	---	---	.00	.00	.00	e.01	.00
31	---	---	---	---	---	---	---	.12	---	.00	.11	---
TOTAL	---	---	---	---	---	---	---	---	0.52	0.00	0.41	0.25
MEAN	---	---	---	---	---	---	---	---	.017	.000	.013	.008
MAX	---	---	---	---	---	---	---	---	.20	.00	.13	.18
MIN	---	---	---	---	---	---	---	---	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	---	1.0	.00	.8	.5

e Estimated

Table 40.--Daily mean discharge, SW998 (T-130 Ditch at McKay Bypass), water year 1995

T-130 DITCH AT MCKAY BYPASS

SITE NUMBER.--SW998

STATION IDENTIFICATION.--395332105124600

LOCATION.--Lat 39°53'32", long 105°12'46", in SW¹/4SW¹/4 sec.10, T.2 S., R.70 W., Jefferson County, Hydrologic Unit 10190003, Rocky Flats Environmental Technology Site, on West Diversion Ditch downstream from the 130-building complex.

DRAINAGE AREA.--0.33 mi².

PERIOD OF RECORD.--May 1994 to current year.

GAGE.--Water-stage recorder and Parshall flume with weir plate. Elevation of gage is 6,047 ft above sea level.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.00	e.00	e.00	e.10	.00	.01	.19	.16	.02	e.00	e.00
2	.00	.00	e.00	e.00	e.02	.00	.01	.17	e.66	.01	e.00	e.00
3	.00	.03	e.00	e.00	.01	.00	.01	.60	e1.2	.01	e.00	e.00
4	.00	.19	e.00	e.00	.01	.00	.00	.42	.70	.01	e.00	e.00
5	.00	.06	e.00	e.00	.01	.00	.00	.20	.22	.00	e.00	e.00
6	.00	.01	e.00	e.00	.01	.00	.00	.67	.05	.00	e.00	e.00
7	.01	.00	e.00	e.00	.01	.03	.01	.24	.14	.00	e.00	e.00
8	.00	.24	e.00	e.00	.01	.02	.00	.41	1.3	.00	e.00	e.00
9	.00	.05	e.00	e.00	.01	.01	.04	.58	2.3	.00	e.00	e.11
10	.00	.02	e.00	e.00	e.01	.00	.22	.74	.11	.00	e.00	e.06
11	.00	.01	e.00	e.00	e.01	.00	.18	.61	.06	.00	.00	e.04
12	.00	.00	e.00	e.00	e.01	.01	.11	.29	.03	.00	.00	e.00
13	.00	.00	e.00	e.00	e.70	.01	.03	.06	.02	.00	.00	e.00
14	.00	.18	e.00	e.00	.26	.00	.02	.02	.01	.03	.06	e.00
15	.02	.08	e.00	e.00	.03	.01	.01	.01	.01	.01	.01	e.00
16	.04	.04	e.00	e.00	.03	.04	.13	e.40	.00	.01	.00	e.00
17	.45	.03	e.00	e.00	.10	.02	.50	e10	.17	.00	.00	e.00
18	.01	.01	e.00	e.00	.05	.02	.46	.65	.02	.00	.32	e.33
19	.00	.01	e.00	e.00	.03	.02	.92	.30	.00	.07	.19	e.31
20	.00	.01	e.00	e.00	.02	.02	.62	.08	.00	.01	.14	e.50
21	.00	.01	e.00	e.00	.01	.02	1.3	.05	.00	.01	.14	e.55
22	.00	.00	e.00	.00	.01	.02	1.3	.06	.00	.00	.06	e.40
23	.00	e.63	e.00	.00	.00	.02	1.2	e1.6	.04	.00	.00	e.27
24	.00	.00	e.00	.00	.00	.03	.91	2.2	.02	.00	.00	e.16
25	.00	.00	e.00	.00	.00	.03	e.59	.69	e.02	.00	.00	e.16
26	.00	.00	e.00	.00	.00	.15	e2.3	e.70	e.02	.00	.00	e.13
27	.00	.00	e.00	.00	.00	.05	e1.6	c2.2	e.02	.00	.00	e.12
28	.00	e.00	e.00	.00	.01	.19	e.75	e1.5	e.92	.00	.00	e.11
29	.00	e.00	e.00	.15	---	.10	e1.8	1.1	.60	.00	.00	e.30
30	.00	e.00	e.00	.21	---	.07	e1.5	.68	.04	.00	.00	e.50
31	.00	---	e.00	e.21	---	.02	---	.33	---	.01	.00	---
TOTAL	0.58	1.61	0.00	0.57	1.47	0.91	16.53	27.75	8.84	0.20	0.92	4.05
MEAN	.019	.054	.000	.018	.052	.029	.55	.90	.16	.003	.021	.072
MAX	.45	.63	.00	.21	.70	.19	2.3	10	2.3	.07	.32	.55
MIN	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00
AC-FT	1.2	3.2	.00	1.1	2.9	1.8	33	55	18	.4	1.8	8.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	.019	.054	.000	.018	.052	.029	.55	.90	.16	.003	.021	.072
MAX	.019	.054	.000	.018	.052	.029	.55	.90	.29	.006	.030	.13
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	.019	.054	.000	.018	.052	.029	.55	.90	.017	.000	.013	.008
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	63.43	
ANNUAL MEAN	.17	.17
HIGHEST ANNUAL MEAN		.17
LOWEST ANNUAL MEAN		.17
HIGHEST DAILY MEAN	10	10
LOWEST DAILY MEAN	a.00	a.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00
ANNUAL RUNOFF (AC-FT)	126	126
10 PERCENT EXCEEDS	.56	.31
50 PERCENT EXCEEDS	.01	.00
90 PERCENT EXCEEDS	.00	.00

a No flow many days

e Estimated

WATER-QUALITY AND SUSPENDED-SEDIMENT DATA

The following abbreviations are used in tables 41 to 44.

mmddyy is month/day/year;

hhmm is hours (0 to 24) and minutes (0 to 60);

cfs is cubic feet per second; ft^3/s is cubic feet per second;

$\mu\text{S}/\text{cm}$ at 25°C is microsiemens per centimeter at 25 degrees Celsius;

$^\circ\text{C}$ is degrees Celsius;

$\mu\text{g}/\text{L}$ is micrograms per liter;

mg/L is milligrams per liter

pCi/L is picocuries per liter;

--- is a symbol used in place of daily mean discharge for periods of missing record or periods prior to gaging-station activation.

Table 41.-- Water-quality data, water year 1994

[The source for reported concentrations is the Rocky Flats Environmental Database (RFEDS), which does not specify the number of significant figures associated with analytical determinations; consequently, all concentrations in this table are reported to three decimal places. Laboratory-determined counting errors associated with radionuclide determinations are shown as plus or minus qualifiers. For radionuclides the counting error is used to qualify the data and no other qualifiers are shown. Reported concentrations for all constituents other than radionuclides may show qualifiers to the right of the reported concentration as follows: B (for metals), reported value is less than method detection level but greater than instrument detection level. For censored values for constituents other than radionuclides, the censored limit is normally reported as the RFEDS detection limit. In some cases for metals determinations the RFEDS detection limit field may contain the the contractor-required detection limit; for these cases the censoring limit is the RFEDS reported value; <, less than]

Property or constituent	Site number (fig. 1)			
	GS01	GS03	GS06	GS07
Beginning date (mmddyy)	05/13/94	07/23/94	10/07/93	10/09/93
Beginning time (hhmm)	0140	1440	1825	1210
Ending date (mmddyy)	05/14/94	07/28/94	10/07/93	10/09/93
Ending time (hhmm)	0622	2358	---	---
Mean discharge (cfs)	0.130	1.500	---	---
Specific conductance (uS/cm at 25°C)	---	---	---	---
pH	---	---	---	---
Temperature (°C)	---	---	---	---
Calcium (total) (µg/L)	---	---	22,200.000	78,400.000
Calcium (dissolved) (µg/L)	---	---	20,500.000	79,000.000
Magnesium (total) (µg/L)	---	---	5,620.000	16,400.000
Magnesium (dissolved) (µg/L)	---	---	5,090.000	16,700.000
Sodium (total) (µg/L)	---	---	13,800.000	42,600.000
Sodium (dissolved) (µg/L)	---	---	13,300.000	42,200.000
Potassium (total) (µg/L)	---	---	5,340.000	2,430.000
Potassium (dissolved) (µg/L)	---	---	4,740.000	2,680.000
Bicarbonate as calcium carbonate (mg/L)	---	---	< 5.000	< 5.000
Carbonate as calcium carbonate (mg/L)	---	---	< 1.000	< 1.000
Sulfate (total) (mg/L)	---	---	< 64.000	< 64.000
Chloride (total) (mg/L)	---	---	< 23.000	< 23.000
Fluoride (total) (mg/L)	---	---	40.600	53.500
Suspended solids (mg/L)	---	---	---	---
Nitrate/nitrite (total) (mg/L)	---	---	56.300	124.000
Nitrate/nitrite (total) (mg/L)	---	---	---	---
Phosphorus (total) (mg/L)	---	---	---	---
Aluminum (total) (µg/L)	---	---	3,110.000	706.000
Aluminum (dissolved) (µg/L)	---	---	40.600	53.500
Antimony (total) (µg/L)	---	---	< 24.000	< 24.000
Antimony (dissolved) (µg/L)	---	---	< 23.000	< 23.000
Arsenic (total) (µg/L)	---	---	< 94.000	< 94.000
Arsenic (dissolved) (µg/L)	---	---	< 64.000	< 64.000
Barium (dissolved) (µg/L)	---	---	56.300	124.000
Barium (total) (µg/L)	---	---	89.200	133.000
Beryllium (total) (µg/L)	---	---	< 1.000	< 1.000
Beryllium (dissolved) (µg/L)	---	---	< 1.000	< 1.000
Cadmium (total) (µg/L)	---	---	< 4.000	< 4.000
Cadmium (dissolved) (µg/L)	---	---	< 5.000	< 5.000
Cerium (total) (µg/L)	---	---	---	---
Cerium (dissolved) (µg/L)	---	---	---	---
Cesium (total) (µg/L)	---	---	8.900	7.000
Cesium (dissolved) (µg/L)	---	---	4.500	< 3.000
Chromium (total) (µg/L)	---	---	7.500	< 4.000
Chromium (dissolved) (µg/L)	---	---	< 8.000	< 8.000
Cobalt (total) (µg/L)	---	---	---	---
Cobalt (dissolved) (µg/L)	---	---	---	---
Copper (total) (µg/L)	---	---	< 8.000	< 8.000
Copper (dissolved) (µg/L)	---	---	4.300	4.100
Iron (total) (µg/L)	---	---	4,070.000	859.000
Iron (dissolved) (µg/L)	---	---	60.900	6.800
Lead (total) (µg/L)	---	---	< 67.000	< 67.000
Lead (dissolved) (µg/L)	---	---	< 75.000	< 75.000
Lithium (total) (µg/L)	---	---	4.400	12.400
Lithium (dissolved) (µg/L)	---	---	< 2.000	11.000
Manganese (total) (µg/L)	---	---	314.000	136.000
Manganese (dissolved) (µg/L)	---	---	1.300	< 1.000
Mercury (total) (µg/L)	---	---	---	---
Mercury (dissolved) (µg/L)	---	---	---	---
Molybdenum (total) (µg/L)	---	---	< 6.000	< 6.000
Molybdenum (dissolved) (µg/L)	---	---	< 9.000	< 9.000
Nickel (total) (µg/L)	---	---	< 17.000	< 17.000

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (Fig. 1)			
	GS01	GS03	GS06	GS07
Nickel (dissolved) (µg/L)	---	---	< 15.000	< 15.000
Selenium (total) (µg/L)	---	---	< 47.000	< 47.000
Selenium (dissolved) (µg/L)	---	---	< 41.000	< 41.000
Silicon (total) (µg/L)	---	---	---	---
Silicon (dissolved) (µg/L)	---	---	---	---
Silver (total) (µg/L)	---	---	< 7.000	< 7.000
Silver (dissolved) (µg/L)	---	---	< 6.000	< 6.000
Strontium (total) (µg/L)	---	---	134.000	B 449.000
Strontium (dissolved) (µg/L)	---	---	122.000	B 452.000
Thallium (total) (µg/L)	---	---	< 113.000	< 113.000
Thallium (dissolved) (µg/L)	---	---	< 191.000	< 191.000
Tin (total) (µg/L)	---	---	< 16.000	< 16.000
Tin (dissolved) (µg/L)	---	---	< 21.000	< 21.000
Vanadium (total) (µg/L)	---	---	< 7.000	< 7.000
Vanadium (dissolved) (µg/L)	---	---	< 11.000	< 11.000
Zinc (total) (µg/L)	---	---	45.000	17.000
Zinc (dissolved) (µg/L)	---	---	8.000	B 16.800
Gross alpha (total) (pCi/L)	---	1.900 ±0.950	---	---
Gross alpha (dissolved) (pCi/L)	---	---	---	---
Beta (total) (pCi/L)	---	6.700 ±1.100	---	---
Americium 241 (dissolved) (pCi/L)	---	---	---	---
Americium 241 (total) (pCi/L)	0.002 ±0.002	0.000 ±0.002	---	---
Radiocesium (total) (pCi/L)	---	---	---	---
Radiocesium (dissolved) (pCi/L)	---	---	---	---
Radium (total) (pCi/L)	---	---	---	---
Radium 226 (dissolved) (pCi/L)	---	---	---	---
Plutonium 239+240 (total) (pCi/L)	0.003 ±0.005	0.004 ±0.005	---	---
Plutonium 239+240 (dissolved) (pCi/L)	---	---	---	---
Strontium 89+90 (total) (pCi/L)	---	---	---	---
Strontium 89+90 (dissolved) (pCi/L)	---	---	---	---
Tritium (total) (pCi/L)	---	---	---	---
Uranium 233+234 (total) (pCi/L)	3.900 ±0.480	0.710 ±0.240	---	---
Uranium 233+234 (dissolved) (pCi/L)	---	---	---	---
Uranium 235 (total) (pCi/L)	0.170 ±0.100	0.069 ±0.093	---	---
Uranium 235 (dissolved) (pCi/L)	---	---	---	---
Uranium 238 (total) (pCi/L)	3.400 ±0.430	1.000 ±0.280	---	---
Uranium 238 (dissolved) (pCi/L)	---	---	---	---
Cyanide (total) (µg/L)	---	---	---	---
Organic carbon (total) (mg/L)	---	---	< 8.000	< 8.000
Organic carbon (dissolved) (mg/L)	---	---	< 8.000	< 8.000

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	GS09	GS09	GS09	GS09
Beginning date (mmdyy)	06/21/94	08/10/94	08/31/94	09/21/94
Beginning time (hhmm)	1859	2158	1625	1258
Ending date (mmdyy)	06/21/94	08/10/94	08/31/94	09/21/94
Ending time (hhmm)	1947	2220	1813	1339
Mean discharge (cfs)	2.930	13.500	1.040	0.850
Specific conductance (uS/cm at 25°C)	700.000	310.000	430.000	480.000
pH	7.300	6.700	7.200	7.100
Temperature (°C)	---	22.500	---	---
Calcium (total) (µg/L)	69,517.297	41,249.941	39,208.172	42,500.000
Calcium (dissolved) (µg/L)	65,472.301	22,808.170	33,527.191	42,532.859
Magnesium (total) (µg/L)	18,051.801	9,827.890	6,058.500	7,200.000
Magnesium (dissolved) (µg/L)	17,317.500	3,834.270	B 5,363.890	7,157.000
Sodium (total) (µg/L)	53,752.500	21,027.461	31,472.449	31,400.000
Sodium (dissolved) (µg/L)	53,070.602	18,621.939	30,500.109	33,851.762
Potassium (total) (µg/L)	6,048.200	13,794.510	9,679.060	9,050.000
Potassium (dissolved) (µg/L)	5,535.700	7,623.410	9,457.300	10,026.690
Bicarbonate as calcium carbonate (mg/L)	193.000	91.000	91.000	108.000
Carbonate as calcium carbonate (mg/L)	< 10.000	< 10.000	< 10.000	< 10.000
Sulfate (total) (mg/L)	< 5.000	30.000	33.700	39.600
Chloride (total) (mg/L)	60.500	27.300	42.000	42.700
Fluoride (total) (mg/L)	0.700	0.250	0.350	0.360
Suspended solids (mg/L)	51.000	330.000	35.000	26.000
Nitrate/nitrite (total) (mg/L)	1.800	3.300	4.000	---
Nitrate/nitrite (total) (mg/L)	---	---	---	4.000
Phosphorus (total) (mg/L)	---	---	---	---
Aluminum (total) (µg/L)	2,528.600	32,400.609	1,300.580	1,580.000
Aluminum (dissolved) (µg/L)	142.400	B 42.990	B < 30.000	< 30.000
Antimony (total) (µg/L)	2.190	B 15.300	B 6.400	B < 0.440
Antimony (dissolved) (µg/L)	10.900	B < 7.400	< 3.000	7.920
Arsenic (total) (µg/L)	4.230	B 4.200	B 3.100	B 2.700
Arsenic (dissolved) (µg/L)	< 6.550	10.100	B 3.100	B 2.436
Barium (dissolved) (µg/L)	122.630	B 254.000	B 32.700	B 24.585
Barium (total) (µg/L)	136.030	B 32.400	B 17.300	B 36.700
Beryllium (total) (µg/L)	< 0.240	< 0.110	< 0.100	< 0.220
Beryllium (dissolved) (µg/L)	< 0.500	< 1.200	< 0.220	< 0.100
Cadmium (total) (µg/L)	< 0.440	< 0.200	< 0.200	< 0.440
Cadmium (dissolved) (µg/L)	< 1.000	2.200	B < 0.440	< 0.200
Cerium (total) (µg/L)	3.560	B ---	---	---
Cerium (dissolved) (µg/L)	0.720	B ---	---	---
Cesium (total) (µg/L)	0.230	B < 0.110	< 0.100	< 0.220
Cesium (dissolved) (µg/L)	< 0.100	< 5.300	< 0.220	0.322
Chromium (total) (µg/L)	5.320	B 0.820	B < 0.200	< 0.440
Chromium (dissolved) (µg/L)	1.890	B 33.500	< 2.200	< 0.200
Cobalt (total) (µg/L)	1.420	B 0.620	B 0.540	B 0.730
Cobalt (dissolved) (µg/L)	< 0.500	< 8.700	< 1.000	0.516
Copper (total) (µg/L)	38.960	B 3.300	B 2.800	B < 5.900
Copper (dissolved) (µg/L)	29.290	B 38.400	B < 4.800	2.839
Iron (total) (µg/L)	2,799.900	26,258.961	1,010.470	1,100.000
Iron (dissolved) (µg/L)	146.100	58.020	B < 10.000	19.670
Lead (total) (µg/L)	6.500	B 0.400	B 0.260	B 2.100
Lead (dissolved) (µg/L)	0.880	B 40.900	2.100	B 0.110
Lithium (total) (µg/L)	11.220	B 5.300	B 6.100	B < 6.000
Lithium (dissolved) (µg/L)	9.650	B 22.900	7.100	B < 5.647
Manganese (total) (µg/L)	204.480	34.200	13.000	B 57.700
Manganese (dissolved) (µg/L)	90.380	648.000	44.900	16.487
Mercury (total) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Mercury (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Molybdenum (total) (µg/L)	< 3.180	4.200	B 17.000	10.600
Molybdenum (dissolved) (µg/L)	3.960	< 4.600	18.500	10.974
Nickel (total) (µg/L)	8.740	B 2.800	B 2.700	B 1.600
Nickel (dissolved) (µg/L)	5.040	B 23.200	B 6.200	B 3.393
Selenium (total) (µg/L)	2.400	B < 3.000	< 3.000	7.200
Selenium (dissolved) (µg/L)	1.700	B < 6.700	< 6.700	6.138
Silicon (total) (µg/L)	8,084.400	65,619.422	7,173.760	8,550.000
Silicon (dissolved) (µg/L)	3,518.000	2,286.620	4,092.330	4,270.000
Silver (total) (µg/L)	< 0.220	< 0.100	< 0.100	< 0.220
Silver (dissolved) (µg/L)	< 0.500	1.800	B < 0.230	< 0.100
Strontium (total) (µg/L)	< 0.220	116.000	148.000	187.000
Strontium (dissolved) (µg/L)	495.000	178.000	167.000	183.050
Thallium (total) (µg/L)	< 0.220	< 0.100	< 0.100	< 0.220

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	GS09	GS09	GS09	GS09
Thallium (dissolved) (µg/L)	< 0.500	0.530	B	< 0.220
Tin (total) (µg/L)	< 2.220	< 1.000		< 1.000
Tin (dissolved) (µg/L)	< 2.000	2.200	B	< 2.000
Vanadium (total) (µg/L)	13.360	6.700	B	8.600
Vanadium (dissolved) (µg/L)	3.110	79.000	B	< 13.300
Zinc (total) (µg/L)	238.200	12.600	B	23.800
Zinc (dissolved) (µg/L)	120.880	489.000		43.100
Gross alpha (total) (pCi/L)	9.600 ±2.200	4.700 ±1.100		1.100 ±0.800
Gross alpha (dissolved) (pCi/L)	---	---		---
Beta (total) (pCi/L)	12.000 ±1.600	16.000 ±1.400		9.400 ±1.100
Americium 241 (dissolved) (pCi/L)	---	---		---
Americium 241 (total) (pCi/L)	0.066 ±0.010	0.310 ±0.029		0.032 ±0.012
Radiocesium (total) (pCi/L)	---	---		---
Radiocesium (dissolved) (pCi/L)	---	---		---
Radium (total) (pCi/L)	---	---		---
Radium 226 (dissolved) (pCi/L)	---	---		---
Plutonium 239+240 (total) (pCi/L)	0.047 ±0.007	0.078 ±0.015		0.027 ±0.009
Plutonium 239+240 (dissolved) (pCi/L)	---	---		---
Strontium 89+90 (total) (pCi/L)	---	---		---
Strontium 89+90 (dissolved) (pCi/L)	---	---		---
Tritium (total) (pCi/L)	---	---		---
Uranium 233+234 (total) (pCi/L)	1.900 ±0.670	0.540 ±0.230		0.330 ±0.210
Uranium 233+234 (dissolved) (pCi/L)	---	---		---
Uranium 235 (total) (pCi/L)	0.120 ±0.120	0.045 ±0.045		0.062 ±0.062
Uranium 235 (dissolved) (pCi/L)	---	---		---
Uranium 238 (total) (pCi/L)	1.600 ±0.650	0.630 ±0.230		0.260 ±0.160
Uranium 238 (dissolved) (pCi/L)	---	---		---
Cyanide (total) (µg/L)	---	---		---
Organic carbon (total) (mg/L)	---	---		---
Organic carbon (dissolved) (mg/L)	---	---		---

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (Fig. 1)			
	GS10	GS10	GS10	GS10
Beginning date (mmddyy)	05/28/94	05/31/94	06/20/94	06/21/94
Beginning time (hhmm)	1219	1759	2031	1838
Ending date (mmddyy)	05/28/94	05/31/94	06/20/94	06/21/94
Ending time (hhmm)	1236	1811	2228	1856
Mean discharge (cfs)	3.250	5.620	0.220	4.330
Specific conductance (uS/cm at 25°C)	---	---	468.000	320.000
pH	---	---	7.300	7.400
Temperature (°C)	---	---	---	17.500
Calcium (total) (µg/L)	60,100.000	48,800.000	35,366.898	65,301.199
Calcium (dissolved) (µg/L)	33,400.000	21,800.000	32,248.100	30,142.301
Magnesium (total) (µg/L)	13,500.000	10,300.000	7,520.700	16,228.100
Magnesium (dissolved) (µg/L)	6,640.000	4,070.000	B 6,421.500	6,064.400
Sodium (total) (µg/L)	29,000.000	15,700.000	26,927.400	18,435.000
Sodium (dissolved) (µg/L)	25,900.000	14,600.000	28,700.000	19,882.100
Potassium (total) (µg/L)	8,600.000	7,190.000	8,917.400	12,733.300
Potassium (dissolved) (µg/L)	4,080.000	B 3,090.000	B 8,369.300	3,848.200
Bicarbonate as calcium carbonate (mg/L)	93.900	72.900	65.300	126.000
Carbonate as calcium carbonate (mg/L)	< 10.000	< 10.000	< 10.000	< 10.000
Sulfate (total) (mg/L)	49.000	28.300	61.000	38.600
Chloride (total) (mg/L)	48.300	18.900	36.700	26.500
Fluoride (total) (mg/L)	0.370	0.260	0.350	0.350
Suspended solids (mg/L)	1,200.000	1,500.000	180.000	1,400.000
Nitrate/nitrite (total) (mg/L)	---	1.000	5.700	1.500
Nitrate/nitrite (total) (mg/L)	---	---	---	---
Phosphorus (total) (mg/L)	---	---	---	---
Aluminum (total) (µg/L)	15,000.000	13,100.000	8,539.200	58,933.699
Aluminum (dissolved) (µg/L)	< 50.000	< 50.000	< 50.000	< 50.000
Antimony (total) (µg/L)	6.100	B 13.100	B 9.380	B 20.590
Antimony (dissolved) (µg/L)	13.400	B 20.900	B 19.930	B 48.420
Arsenic (total) (µg/L)	17.100	B 26.600	B 5.010	B 10.110
Arsenic (dissolved) (µg/L)	2.000	B 2.100	B < 6.130	< 2.970
Barium (dissolved) (µg/L)	61.200	B 39.800	B 30.590	B 55.150
Barium (total) (µg/L)	424.000	B 487.000	B 75.130	B 459.640
Beryllium (total) (µg/L)	1.300	B 2.300	B < 0.220	< 0.780
Beryllium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Cadmium (total) (µg/L)	< 6.200	< 4.000	0.480	B 3.080
Cadmium (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Cerium (total) (µg/L)	97.200	B 124.000	11.280	B 95.440
Cerium (dissolved) (µg/L)	< 0.100	0.580	B 0.170	B 0.120
Cesium (total) (µg/L)	5.100	B 5.900	B 0.930	B 6.630
Cesium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Chromium (total) (µg/L)	47.400	B 59.300	B 6.850	B 31.870
Chromium (dissolved) (µg/L)	0.690	B 0.680	B 0.770	B 0.860
Cobalt (total) (µg/L)	11.200	B 14.700	B 1.970	B 9.380
Cobalt (dissolved) (µg/L)	0.310	B 0.200	B 0.290	B 0.110
Copper (total) (µg/L)	76.600	B 90.300	B 9.260	B 38.180
Copper (dissolved) (µg/L)	6.200	B < 3.200	2.540	B 6.760
Iron (total) (µg/L)	20,000.000	15,500.000	6,349.700	49,953.000
Iron (dissolved) (µg/L)	< 20.000	40.600	B < 20.000	< 20.000
Lead (total) (µg/L)	94.700	112.000	8.810	70.390
Lead (dissolved) (µg/L)	< 0.100	0.180	B 0.240	B 0.180
Lithium (total) (µg/L)	< 28.300	< 30.200	15.080	B 18.490
Lithium (dissolved) (µg/L)	3.900	B 2.700	B 13.170	B 3.330
Manganese (total) (µg/L)	1,580.000	1,690.000	115.760	753.090
Manganese (dissolved) (µg/L)	52.700	31.300	13.490	B 29.290
Mercury (total) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Mercury (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Molybdenum (total) (µg/L)	4.300	B 3.600	B 6.810	B < 3.050
Molybdenum (dissolved) (µg/L)	1.800	B 1.010	B 7.460	B 1.360
Nickel (total) (µg/L)	19.400	B 28.300	B 7.110	B 24.480
Nickel (dissolved) (µg/L)	2.200	B 1.700	B 1.280	B 1.440
Selenium (total) (µg/L)	< 22.200	< 22.200	< 2.200	2.300
Selenium (dissolved) (µg/L)	< 3.000	< 3.000	< 1.000	< 1.000
Silicon (total) (µg/L)	29,100.000	26,500.000	20,828.199	78,641.898
Silicon (dissolved) (µg/L)	2,050.000	1,490.000	3,725.300	1,913.300
Silver (total) (µg/L)	< 3.000	< 3.000	< 0.420	3.760
Silver (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Strontium (total) (µg/L)	343.000	283.000	175.580	253.220
Strontium (dissolved) (µg/L)	224.000	132.000	158.000	168.000
Thallium (total) (µg/L)	< 1.100	< 1.100	< 0.220	< 0.940

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	GS10	GS10	GS10	GS10
Thallium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Tin (total) (µg/L)	4.600	B 5.200	B < 2.220	< 4.370
Tin (dissolved) (µg/L)	< 1.000	< 1.000	< 1.000	1.500
Vanadium (total) (µg/L)	137.000	B 145.000	B 17.810	B 85.690
Vanadium (dissolved) (µg/L)	2.200	B 3.800	B 4.640	B 2.780
Zinc (total) (µg/L)	1,410.000	1,680.000	91.480	438.820
Zinc (dissolved) (µg/L)	3.100	B 6.100	B 15.760	B 4.620
Gross alpha (total) (pCi/L)	32.000 ±6.000	58.000 ±8.800	8.300 ±1.900	86.000 ±15.00
Gross alpha (dissolved) (pCi/L)	---	---	---	---
Beta (total) (pCi/L)	59.000 ±4.200	60.000 ±4.900	17.000 ±1.400	81.000 ±7.800
Americium 241 (dissolved) (pCi/L)	---	---	---	---
Americium 241 (total) (pCi/L)	0.500 ±0.044	0.940 ±0.200	0.110 ±0.013	1.000 ±0.079
Radiocesium (total) (pCi/L)	---	---	---	---
Radiocesium (dissolved) (pCi/L)	---	---	---	---
Radium (total) (pCi/L)	---	---	---	---
Radium 226 (dissolved) (pCi/L)	---	---	---	---
Plutonium 239+240 (total) (pCi/L)	1.100 ±0.058	1.100 ±0.071	0.150 ±0.012	1.400 ±0.041
Plutonium 239+240 (dissolved) (pCi/L)	---	---	---	---
Strontium 89+90 (total) (pCi/L)	---	---	---	---
Strontium 89+90 (dissolved) (pCi/L)	---	---	---	---
Tritium (total) (pCi/L)	---	---	---	---
Uranium 233+234 (total) (pCi/L)	2.300 ±0.480	1.500 ±0.270	0.310 ±0.140	2.300 ±0.520
Uranium 233+234 (dissolved) (pCi/L)	---	---	---	---
Uranium 235 (total) (pCi/L)	0.100 ±0.100	0.012 ±0.047	0.014 ±0.054	0.230 ±0.170
Uranium 235 (dissolved) (pCi/L)	---	---	---	---
Uranium 238 (total) (pCi/L)	2.000 ±0.470	1.900 ±0.300	0.540 ±0.160	2.300 ±0.520
Uranium 238 (dissolved) (pCi/L)	---	---	---	---
Cyanide (total) (µg/L)	---	---	---	---
Organic carbon (total) (mg/L)	---	---	---	---
Organic carbon (dissolved) (mg/L)	---	---	---	---

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	GS10	GS10	GS10	GS10
Beginning date (mmdyy)	06/22/94	08/31/94	09/21/94	09/22/94
Beginning time (hhmm)	1810	1642	1226	1202
Ending date (mmdyy)	06/22/94	08/31/94	09/21/94	09/22/94
Ending time (hhmm)	1901	1744	1334	1301
Mean discharge (cfs)	0.810	0.440	0.680	0.630
Specific conductance (uS/cm at 25°C)	310.000	430.000	570.000	250.000
pH	6.900	6.900	6.900	7.100
Temperature (°C)	---	---	---	---
Calcium (total) (µg/L)	38,133.301	44,760.031	54,300.000	23,500.000
Calcium (dissolved) (µg/L)	30,486.000	38,404.398	52,270.270	23,099.971
Magnesium (total) (µg/L)	9,069.500	11,831.580	15,500.000	5,680.000
Magnesium (dissolved) (µg/L)	6,469.300	10,019.090	15,124.820	5,611.980
Sodium (total) (µg/L)	21,947.100	34,525.129	42,900.000	17,000.000
Sodium (dissolved) (µg/L)	21,089.301	32,153.250	47,446.281	18,399.400
Potassium (total) (µg/L)	5,306.000	B 4,641.490	B 6,590.000	2,320.000
Potassium (dissolved) (µg/L)	3,269.900	B 3,497.180	B 5,600.050	2,402.400
Bicarbonate as calcium carbonate (mg/L)	116.000	152.000	144.000	67.700
Carbonate as calcium carbonate (mg/L)	< 10.000	< 10.000	< 10.000	< 10.000
Sulfate (total) (mg/L)	17.700	29.400	41.500	18.400
Chloride (total) (mg/L)	25.700	39.300	52.600	21.500
Fluoride (total) (mg/L)	0.380	0.500	0.540	0.290
Suspended solids (mg/L)	230.000	110.000	180.000	24.000
Nitrate/nitrite (total) (mg/L)	1.400	---	---	---
Nitrate/nitrite (total) (mg/L)	---	---	2.700	< 0.100
Phosphorus (total) (mg/L)	---	---	---	---
Aluminum (total) (µg/L)	11,177.000	5,128.820	8,240.000	1,610.000
Aluminum (dissolved) (µg/L)	< 50.000	< 30.000	< 30.000	< 30.000
Antimony (total) (µg/L)	35.290	B 13.600	B 5.000	B 70.800
Antimony (dissolved) (µg/L)	50.820	B < 9.500	< 6.695	81.681
Arsenic (total) (µg/L)	6.160	B 3.300	B 9.200	B 6.700
Arsenic (dissolved) (µg/L)	< 3.350	6.500	B 4.008	B 4.099
Barium (dissolved) (µg/L)	56.360	B 118.000	B 72.312	B 36.684
Barium (total) (µg/L)	146.960	B 62.600	B 168.000	B 59.400
Beryllium (total) (µg/L)	< 0.290	< 0.100	< 0.220	< 0.220
Beryllium (dissolved) (µg/L)	< 0.100	< 0.250	< 0.100	< 0.100
Cadmium (total) (µg/L)	0.950	B < 0.200	1.400	B 0.510
Cadmium (dissolved) (µg/L)	0.560	B 0.820	B < 0.200	< 0.200
Cerium (total) (µg/L)	18.920	B ---	---	---
Cerium (dissolved) (µg/L)	< 0.100	---	---	---
Cesium (total) (µg/L)	1.350	B < 0.100	< 0.380	< 0.220
Cesium (dissolved) (µg/L)	0.220	B < 0.520	0.882	B 1.402
Chromium (total) (µg/L)	11.270	B 0.670	B 11.100	B 4.500
Chromium (dissolved) (µg/L)	1.310	B 8.100	B 0.904	B 1.875
Cobalt (total) (µg/L)	2.810	B 0.370	B 3.500	B 0.660
Cobalt (dissolved) (µg/L)	< 0.100	< 2.100	0.733	B 0.296
Copper (total) (µg/L)	18.830	B 6.700	B 25.700	B < 12.700
Copper (dissolved) (µg/L)	5.390	B 18.400	B 9.086	B 5.102
Iron (total) (µg/L)	9,725.600	4,755.350	8,510.000	2,750.000
Iron (dissolved) (µg/L)	< 20.000	< 10.000	68.560	B 100.900
Lead (total) (µg/L)	18.620	0.210	B 17.400	4.200
Lead (dissolved) (µg/L)	0.250	B 11.000	0.150	B 0.428
Lithium (total) (µg/L)	7.090	B 5.800	B < 7.800	< 3.100
Lithium (dissolved) (µg/L)	3.230	B 8.300	B < 7.243	< 4.312
Manganese (total) (µg/L)	217.850	8.800	B 800.000	128.000
Manganese (dissolved) (µg/L)	9.380	B 329.000	63.946	17.673
Mercury (total) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Mercury (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Molybdenum (total) (µg/L)	< 2.020	1.900	B < 2.500	< 1.100
Molybdenum (dissolved) (µg/L)	1.310	B < 2.300	2.401	B < 1.184
Nickel (total) (µg/L)	8.670	B 2.700	B 5.900	B < 1.300
Nickel (dissolved) (µg/L)	0.900	B 7.700	B 4.482	B 2.038
Selenium (total) (µg/L)	< 2.200	4.900	B 12.400	< 6.700
Selenium (dissolved) (µg/L)	< 1.000	< 6.700	10.008	4.464
Silicon (total) (µg/L)	24,807.301	14,162.110	23,000.000	6,360.000
Silicon (dissolved) (µg/L)	2,400.900	3,307.240	3,070.000	2,010.000
Silver (total) (µg/L)	1.140	B < 0.100	< 0.670	< 0.220
Silver (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Strontium (total) (µg/L)	230.800	271.000	366.000	155.000
Strontium (dissolved) (µg/L)	183.000	310.000	359.190	151.986
Thallium (total) (µg/L)	< 0.220	< 0.100	< 0.220	< 0.220

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	GS10	GS10	GS10	GS10
Thallium (dissolved) ($\mu\text{g/L}$)	< 0.100	< 0.220	< 0.100	< 0.100
Tin (total) ($\mu\text{g/L}$)	< 2.220	< 1.000	< 2.000	< 2.000
Tin (dissolved) ($\mu\text{g/L}$)	< 1.000	< 2.000	< 1.000	< 1.000
Vanadium (total) ($\mu\text{g/L}$)	22.900	2.100	24.900	6.000
Vanadium (dissolved) ($\mu\text{g/L}$)	2.530	16.200	2.052	1.154
Zinc (total) ($\mu\text{g/L}$)	223.180	6.000	442.000	130.000
Zinc (dissolved) ($\mu\text{g/L}$)	12.030	239.000	8.960	8.979
Gross alpha (total) (pCi/L)	8.400 ± 1.700	6.400 ± 1.400	4.800 ± 1.200	4.000 ± 1.300
Gross alpha (dissolved) (pCi/L)	---	---	---	---
Beta (total) (pCi/L)	10.000 ± 1.200	12.000 ± 1.200	7.500 ± 1.100	5.200 ± 1.000
Americium 241 (dissolved) (pCi/L)	---	---	---	---
Americium 241 (total) (pCi/L)	0.120 ± 0.014	0.170 ± 0.022	0.370 ± 0.031	0.045 ± 0.011
Radiocesium (total) (pCi/L)	---	---	---	---
Radiocesium (dissolved) (pCi/L)	---	---	---	---
Radium (total) (pCi/L)	---	---	---	---
Radium 226 (dissolved) (pCi/L)	---	---	---	---
Plutonium 239+240 (total) (pCi/L)	0.280 ± 0.017	0.170 ± 0.019	0.440 ± 0.040	0.025 ± 0.007
Plutonium 239+240 (dissolved) (pCi/L)	---	---	---	---
Strontium 89+90 (total) (pCi/L)	---	---	---	---
Strontium 89+90 (dissolved) (pCi/L)	---	---	---	---
Tritium (total) (pCi/L)	---	---	---	---
Uranium 233+234 (total) (pCi/L)	1.000 ± 0.260	1.100 ± 0.340	1.800 ± 0.420	0.620 ± 0.270
Uranium 233+234 (dissolved) (pCi/L)	---	---	---	---
Uranium 235 (total) (pCi/L)	0.076 ± 0.092	0.000 ± 0.049	0.180 ± 0.160	0.081 ± 0.110
Uranium 235 (dissolved) (pCi/L)	---	---	---	---
Uranium 238 (total) (pCi/L)	1.200 ± 0.270	1.100 ± 0.300	1.800 ± 0.420	0.640 ± 0.230
Uranium 238 (dissolved) (pCi/L)	---	---	---	---
Cyanide (total) ($\mu\text{g/L}$)	---	---	---	---
Organic carbon (total) (mg/L)	---	---	---	---
Organic carbon (dissolved) (mg/L)	---	---	---	---

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)				
	GS11	GS11	GS12	GS13	
Beginning date (mmdyy)	06/20/94	07/23/94	09/29/94	10/08/93	
Beginning time (hhmm)	1024	0639	1253	0145	
Ending date (mmdyy)	06/29/94	07/30/94	09/29/94	10/08/93	
Ending time (hhmm)	1358	2239	2153	---	
Mean discharge (cfs)	1.670	1.630	1.500	---	
Specific conductance (uS/cm at 25°C)	650.000	1,360.000	---	---	
pH	---	6.800	8.100	---	
Temperature (°C)	---	12.500	---	---	
Calcium (total) (µg/L)	54,377.500	41,780.301	43,100.000	42,600.000	
Calcium (dissolved) (µg/L)	47,495.500	39,005.000	41,682.430	40,400.000	
Magnesium (total) (µg/L)	12,694.900	10,192.800	23,900.000	9,510.000	
Magnesium (dissolved) (µg/L)	11,283.900	9,260.900	24,246.801	9,070.000	
Sodium (total) (µg/L)	65,247.000	58,159.199	02,000.000	21,900.000	
Sodium (dissolved) (µg/L)	59,968.500	57,444.398	09,730.250	22,100.000	
Potassium (total) (µg/L)	8,677.800	7,941.500	6,990.000	5,710.000	
Potassium (dissolved) (µg/L)	8,101.100	7,917.100	6,890.220	5,730.000	
Bicarbonate as calcium carbonate (mg/L)	126.000	93.700	222.000	< 5.000	
Carbonate as calcium carbonate (mg/L)	< 10.000	26.800	10.100	< 1.000	
Sulfate (total) (mg/L)	76.700	53.200	31.100	< 64.000	
Chloride (total) (mg/L)	76.100	77.600	112.000	< 23.000	
Fluoride (total) (mg/L)	0.440	0.570	0.600	28.300	B
Suspended solids (mg/L)	5.000	19.000	51.000	---	
Nitrate/nitrite (total) (mg/L)	1.700	< 0.100	---	56.900	B
Nitrate/nitrite (total) (mg/L)	---	---	0.140	---	
Phosphorus (total) (mg/L)	---	---	---	---	
Aluminum (total) (µg/L)	303.100	544.800	5,150.000	3,470.000	
Aluminum (dissolved) (µg/L)	< 50.000	< 50.000	< 30.000	28.300	B
Antimony (total) (µg/L)	< 1.100	< 1.300	< 0.440	< 24.000	
Antimony (dissolved) (µg/L)	8.860	11.540	8.870	< 23.000	
Arsenic (total) (µg/L)	3.610	4.520	6.700	< 94.000	
Arsenic (dissolved) (µg/L)	< 4.600	< 6.530	5.839	< 64.000	
Barium (dissolved) (µg/L)	59.740	32.390	86.212	56.900	B
Barium (total) (µg/L)	75.260	44.420	125.000	90.100	B
Beryllium (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 1.000	
Beryllium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 1.000	
Cadmium (total) (µg/L)	< 0.440	< 0.440	< 0.440	< 4.000	
Cadmium (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 5.000	
Cerium (total) (µg/L)	0.490	0.690	---	---	
Cerium (dissolved) (µg/L)	< 0.100	< 0.100	---	---	
Cesium (total) (µg/L)	< 0.200	< 0.200	< 0.290	14.000	B
Cesium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	5.600	B
Chromium (total) (µg/L)	< 0.450	< 0.960	3.800	< 4.000	
Chromium (dissolved) (µg/L)	0.350	0.460	< 0.200	< 8.000	
Cobalt (total) (µg/L)	1.270	1.350	1.500	---	
Cobalt (dissolved) (µg/L)	0.830	0.830	0.688	---	
Copper (total) (µg/L)	< 4.360	< 7.960	< 5.800	< 8.000	
Copper (dissolved) (µg/L)	1.890	1.540	1.863	< 4.000	
Iron (total) (µg/L)	179.500	275.000	2,460.000	4,160.000	
Iron (dissolved) (µg/L)	< 20.000	< 20.000	25.680	< 46.000	
Lead (total) (µg/L)	< 0.590	< 0.780	3.000	92.100	B
Lead (dissolved) (µg/L)	< 0.100	< 0.100	< 0.300	< 75.000	
Lithium (total) (µg/L)	11.040	10.250	31.300	8.800	B
Lithium (dissolved) (µg/L)	9.350	10.410	26.363	5.900	B
Manganese (total) (µg/L)	48.780	73.200	156.000	228.000	
Manganese (dissolved) (µg/L)	11.160	2.780	36.226	5.200	B
Mercury (total) (µg/L)	< 0.200	< 0.200	< 0.200	---	
Mercury (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	---	
Molybdenum (total) (µg/L)	4.910	6.070	< 2.200	< 6.000	
Molybdenum (dissolved) (µg/L)	4.650	5.880	6.784	< 9.000	
Nickel (total) (µg/L)	5.680	5.940	5.300	< 17.000	
Nickel (dissolved) (µg/L)	3.000	1.840	5.426	< 15.000	
Selenium (total) (µg/L)	< 2.200	< 2.200	21.900	< 47.000	
Selenium (dissolved) (µg/L)	< 1.000	< 1.000	17.200	< 41.000	
Silicon (total) (µg/L)	3,187.100	4,501.200	16,800.000	---	
Silicon (dissolved) (µg/L)	2,363.900	3,534.400	3,770.000	---	
Silver (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 7.000	
Silver (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 6.000	
Strontium (total) (µg/L)	344.070	276.240	362.000	269.000	
Strontium (dissolved) (µg/L)	286.000	241.000	345.980	258.000	
Thallium (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 113.000	

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	GS11	GS11	GS12	GS13
Thallium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 191.000
Tin (total) (µg/L)	< 2.220	< 2.220	< 2.000	< 16.000
Tin (dissolved) (µg/L)	< 1.000	< 1.000	< 1.000	< 21.000
Vanadium (total) (µg/L)	4.400	B 6.270	B 13.100	B < 7.000
Vanadium (dissolved) (µg/L)	3.330	B 4.970	B 2.070	B < 11.000
Zinc (total) (µg/L)	< 11.460	< 8.380	< 22.000	58.400
Zinc (dissolved) (µg/L)	5.240	B < 1.000	< 2.000	6.100
Gross alpha (total) (pCi/L)	1.500 ±1.100	2.000 ±1.200	1.300 ±0.740	---
Gross alpha (dissolved) (pCi/L)	---	---	---	---
Beta (total) (pCi/L)	8.000 ±1.100	8.100 ±1.100	2.600 ±0.910	---
Americium 241 (dissolved) (pCi/L)	---	---	---	---
Americium 241 (total) (pCi/L)	0.003 ±0.002	0.001 ±0.003	0.020 ±0.008	---
Radiocesium (total) (pCi/L)	---	---	---	---
Radiocesium (dissolved) (pCi/L)	---	---	---	---
Radium (total) (pCi/L)	---	---	---	---
Radium 226 (dissolved) (pCi/L)	---	---	---	---
Plutonium 239+240 (total) (pCi/L)	-0.001 ±0.004	-0.002 ±0.004	0.021 ±0.006	---
Plutonium 239+240 (dissolved) (pCi/L)	---	---	---	---
Strontium 89+90 (total) (pCi/L)	---	---	---	---
Strontium 89+90 (dissolved) (pCi/L)	---	---	---	---
Tritium (total) (pCi/L)	---	---	---	---
Uranium 233+234 (total) (pCi/L)	0.850 ±0.170	0.980 ±0.290	1.600 ±0.410	---
Uranium 233+234 (dissolved) (pCi/L)	---	---	---	---
Uranium 235 (total) (pCi/L)	0.067 ±0.050	0.120 ±0.097	0.150 ±0.100	---
Uranium 235 (dissolved) (pCi/L)	---	---	---	---
Uranium 238 (total) (pCi/L)	0.970 ±0.170	0.820 ±0.290	1.800 ±0.420	---
Uranium 238 (dissolved) (pCi/L)	---	---	---	---
Cyanide (total) (µg/L)	---	---	---	---
Organic carbon (total) (mg/L)	---	---	---	< 8.000
Organic carbon (dissolved) (mg/L)	---	---	---	< 8.000

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	GS13	GS16	GS16	SW027
Beginning date (mmddyy)	10/17/93	10/08/93	09/22/94	05/28/94
Beginning time (hhmm)	1817	1100	---	2225
Ending date (mmddyy)	10/17/93	10/08/93	09/22/94	05/28/94
Ending time (hhmm)	---	---	---	2341
Mean discharge (cfs)	---	---	---	---
Specific conductance (uS/cm at 25°C)	---	---	360.000	---
pH	---	---	7.600	---
Temperature (°C)	---	---	---	---
Ca cium (total) (µg/L)	38,800.000	64,700.000	53,200.000	49,300.000
Calcium (dissolved) (µg/L)	34,800.000	64,900.000	50,192.730	45,200.000
Magnesium (total) (µg/L)	8,280.000	8,650.000	7,880.060	8,910.000
Magnesium (dissolved) (µg/L)	7,630.000	8,430.000	6,801.720	8,170.000
Sodium (total) (µg/L)	19,900.000	15,300.000	13,000.000	27,900.000
Sodium (dissolved) (µg/L)	19,500.000	15,400.000	13,883.820	26,400.000
Potassium (total) (µg/L)	6,030.000	7,480.000	3,870.000	B 4,860.000
Potassium (dissolved) (µg/L)	5,280.000	7,200.000	2,503.060	B 4,390.000
Bicarbonate as calcium carbonate (mg/L)	< 5.000	< 5.000	109.000	129.000
Carbonate as calcium carbonate (mg/L)	< 1.000	< 1.000	< 10.000	< 10.000
Sulfate (total) (mg/L)	< 64.000	81.100	B 24.200	22.200
Chloride (total) (mg/L)	< 23.000	< 23.000	26.200	43.700
Fluoride (total) (mg/L)	42.100	B 48.700	B 0.290	0.550
Suspended solids (mg/L)	---	---	200.000	19.000
Nitrate/nitrite (total) (mg/L)	50.900	B 127.000	B ---	---
Nitrate/nitrite (total) (mg/L)	---	---	1.200	---
Phosphorus (total) (mg/L)	---	---	---	---
Aluminum (total) (µg/L)	2,750.000	2,390.000	9,060.000	473.000
Aluminum (dissolved) (µg/L)	42.100	B 48.700	B < 30.000	< 50.000
Antimony (total) (µg/L)	< 24.000	< 24.000	< 0.440	< 0.520
Antimony (dissolved) (µg/L)	< 23.000	< 23.000	8.639	B 6.300
Arsenic (total) (µg/L)	< 94.000	< 94.000	< 2.200	< 2.200
Arsenic (dissolved) (µg/L)	< 64.000	81.100	B < 1.000	1.500
Barium (dissolved) (µg/L)	50.900	B 127.000	B 83.736	B 93.900
Barium (total) (µg/L)	80.900	B 154.000	B 179.000	B 101.000
Beryllium (total) (µg/L)	< 1.000	< 1.000	< 0.220	< 0.230
Beryllium (dissolved) (µg/L)	< 1.000	< 1.000	< 0.100	< 0.100
Cadmium (total) (µg/L)	40.000	< 4.000	< 0.440	< 0.440
Cadmium (dissolved) (µg/L)	< 5.000	< 5.000	< 0.200	< 0.200
Cerium (total) (µg/L)	---	---	---	1.200
Cerium (dissolved) (µg/L)	---	---	---	< 0.100
Cesium (total) (µg/L)	13.200	B 4.600	B < 0.780	< 0.200
Cesium (dissolved) (µg/L)	3.700	B < 3.000	6.234	B < 0.100
Chromium (total) (µg/L)	6.800	B < 4.000	7.100	B < 1.200
Chromium (dissolved) (µg/L)	< 8.000	< 8.000	< 0.200	0.280
Cobalt (total) (µg/L)	---	---	2.600	B < 1.300
Cobalt (dissolved) (µg/L)	---	---	0.350	B 0.300
Copper (total) (µg/L)	< 8.000	< 8.000	< 6.700	3.900
Copper (dissolved) (µg/L)	4.300	B < 4.000	1.001	B < 2.900
Iron (total) (µg/L)	3,570.000	2,350.000	6,970.000	542.000
Iron (dissolved) (µg/L)	51.600	B 16.200	B 17.550	B 23.900
Lead (total) (µg/L)	< 67.000	68.800	B 9.000	0.810
Lead (dissolved) (µg/L)	< 75.000	< 75.000	< 0.300	0.210
Lithium (total) (µg/L)	7.200	B 9.200	B < 7.800	8.100
Lithium (dissolved) (µg/L)	3.800	B 8.000	B < 7.209	6.500
Manganese (total) (µg/L)	262.000	86.300	154.000	34.400
Manganese (dissolved) (µg/L)	32.400	1.500	B 2.400	B 0.930
Mercury (total) (µg/L)	---	---	< 0.200	< 0.200
Mercury (dissolved) (µg/L)	---	---	< 0.200	< 0.200
Molybdenum (total) (µg/L)	< 6.000	< 6.000	< 0.220	< 2.100
Molybdenum (dissolved) (µg/L)	< 9.000	< 9.000	< 0.338	1.900
Nickel (total) (µg/L)	< 17.000	< 17.000	4.400	B < 2.800
Nickel (dissolved) (µg/L)	< 15.000	< 15.000	2.148	B 2.300
Selenium (total) (µg/L)	< 47.000	< 47.000	< 6.700	< 4.400
Selenium (dissolved) (µg/L)	< 41.000	< 41.000	< 3.000	< 3.000
Silicon (total) (µg/L)	---	---	37,200.000	6,640.000
Silicon (dissolved) (µg/L)	---	---	13,100.000	5,330.000
Silver (total) (µg/L)	< 7.000	< 7.000	< 0.220	< 0.220
Silver (dissolved) (µg/L)	< 6.000	< 6.000	< 0.100	< 0.100
Strontium (total) (µg/L)	233.000	275.000	205.000	245.000
Strontium (dissolved) (µg/L)	221.000	275.000	171.410	283.000
Thallium (total) (µg/L)	< 113.000	< 113.000	< 0.220	< 0.220

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	GS13	GS16	GS16	SW027
Thallium (dissolved) (µg/L)	< 191.000	< 191.000	< 0.100	< 0.100
Tin (total) (µg/L)	< 16.000	< 16.000	4.300	B < 2.200
Tin (dissolved) (µg/L)	< 21.000	< 21.000	< 1.000	< 1.000
Vanadium (total) (µg/L)	< 7.000	< 7.000	14.700	B 3.100
Vanadium (dissolved) (µg/L)	< 11.000	< 11.000	0.837	B 2.200
Zinc (total) (µg/L)	59.200	30.800	70.500	25.100
Zinc (dissolved) (µg/L)	8.600	5.900	< 2.000	< 2.000
Gross alpha (total) (pCi/L)	---	---	0.770 ±0.570	3.100 ±1.000
Gross alpha (dissolved) (pCi/L)	---	---	---	---
Beta (total) (pCi/L)	---	---	2.400 ±0.950	4.900 ±1.000
Americium 241 (dissolved) (pCi/L)	---	---	---	---
Americium 241 (total) (pCi/L)	---	---	0.003 ±0.006	0.007 ±0.006
Radiocesium (total) (pCi/L)	---	---	---	---
Radiocesium (dissolved) (pCi/L)	---	---	---	---
Radium (total) (pCi/L)	---	---	---	---
Radium 226 (dissolved) (pCi/L)	---	---	---	---
Plutonium 239+240 (total) (pCi/L)	---	---	0.012 ±0.006	0.018 ±0.007
Plutonium 239+240 (dissolved) (pCi/L)	---	---	---	---
Strontium 89+90 (total) (pCi/L)	---	---	---	---
Strontium 89+90 (dissolved) (pCi/L)	---	---	---	---
Tritium (total) (pCi/L)	---	---	---	---
Uranium 233+234 (total) (pCi/L)	---	---	0.170 ±0.170	1.100 ±0.230
Uranium 233+234 (dissolved) (pCi/L)	---	---	---	---
Uranium 235 (total) (pCi/L)	---	---	0.026 ±0.051	0.052 ±0.052
Uranium 235 (dissolved) (pCi/L)	---	---	---	---
Uranium 238 (total) (pCi/L)	---	---	0.064 ±0.085	1.000 ±0.230
Uranium 238 (dissolved) (pCi/L)	---	---	---	---
Cyanide (total) (µg/L)	---	---	---	---
Organic carbon (total) (mg/L)	< 8.000	< 8.000	---	---
Organic carbon (dissolved) (mg/L)	< 8.000	< 8.000	---	---

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	SW027	SW093	SW093	SW093
Beginning date (mmddyy)	06/01/94	05/28/94	05/31/94	06/21/94
Beginning time (hhmm)	0610	1324	1913	1841
Ending date (mmddyy)	06/01/94	05/28/94	05/31/94	06/21/94
Ending time (hhmm)	0638	1335	1924	1851
Mean discharge (cfs)	---	1.280	1.810	3.220
Specific conductance (uS/cm at 25°C)	---	---	---	180.000
pH	---	---	---	7.000
Temperature (°C)	---	---	---	---
Calcium (total) (µg/L)	57,700.000	49,300.000	31,000.000	73,607.797
Calcium (dissolved) (µg/L)	49,900.000	27,300.000	19,400.000	18,448.699
Magnesium (total) (µg/L)	10,200.000	12,800.000	8,030.000	12,786.900
Magnesium (dissolved) (µg/L)	8,880.000	4,790.000	B 3,100.000	B 2,993.400
Sodium (total) (µg/L)	29,400.000	19,300.000	11,700.000	10,506.500
Sodium (dissolved) (µg/L)	26,400.000	17,100.000	10,300.000	8,644.700
Potassium (total) (µg/L)	4,500.000	B 7,190.000	5,250.000	B 10,156.300
Potassium (dissolved) (µg/L)	3,960.000	B 2,680.000	B 1,980.000	B 1,913.600
Bicarbonate as calcium carbonate (mg/L)	145.000	92.800	50.800	76.500
Carbonate as calcium carbonate (mg/L)	< 10.000	< 10.000	< 10.000	< 10.000
Sulfate (total) (mg/L)	5.100	10.000	35.300	< 5.000
Chloride (total) (mg/L)	35.200	24.600	13.200	12.600
Fluoride (total) (mg/L)	0.500	0.230	0.170	0.170
Suspended solids (mg/L)	20.000	1,300.000	11,000.000	710.000
Nitrate/nitrite (total) (mg/L)	0.400	---	0.920	0.640
Nitrate/nitrite (total) (mg/L)	---	---	---	---
Phosphorus (total) (mg/L)	---	---	---	---
Aluminum (total) (µg/L)	457.000	15,100.000	9,670.000	39,095.602
Aluminum (dissolved) (µg/L)	< 50.000	< 50.000	< 50.000	< 50.000
Antimony (total) (µg/L)	< 0.440	< 2.200	< 2.200	< 1.150
Antimony (dissolved) (µg/L)	8.000	B 8.600	B 6.300	B 6.210
Arsenic (total) (µg/L)	< 2.200	27.400	B 22.800	B 9.580
Arsenic (dissolved) (µg/L)	1.400	B < 1.000	< 1.000	< 1.350
Barium (dissolved) (µg/L)	103.000	B 55.200	B 32.800	B 32.400
Barium (total) (µg/L)	112.000	B 561.000	B 357.000	B 527.870
Beryllium (total) (µg/L)	< 0.220	< 1.100	< 1.100	< 0.720
Beryllium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Cadmium (total) (µg/L)	< 0.440	< 6.300	< 4.000	2.260
Cadmium (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Cerium (total) (µg/L)	1.280	B 117.000	79.400	B 77.400
Cerium (dissolved) (µg/L)	< 0.100	< 0.100	0.310	B 0.140
Cesium (total) (µg/L)	< 0.200	5.900	B 4.700	B 3.920
Cesium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Chromium (total) (µg/L)	< 0.940	86.900	B 47.400	B 43.530
Chromium (dissolved) (µg/L)	< 0.200	0.620	B 0.540	B 0.590
Cobalt (total) (µg/L)	< 0.220	16.000	B 10.500	B 10.930
Cobalt (dissolved) (µg/L)	0.390	B 0.500	B 0.270	B < 0.100
Copper (total) (µg/L)	< 1.100	116.000	B 124.000	B 71.340
Copper (dissolved) (µg/L)	< 2.600	7.700	B 9.000	B 5.630
Iron (total) (µg/L)	522.000	23,600.000	10,900.000	47,782.699
Iron (dissolved) (µg/L)	23.700	B 20.600	B 25.700	B < 20.000
Lead (total) (µg/L)	0.610	B 243.000	118.000	223.330
Lead (dissolved) (µg/L)	< 0.100	< 0.100	0.150	B < 0.100
Lithium (total) (µg/L)	< 7.100	< 38.600	< 23.000	14.190
Lithium (dissolved) (µg/L)	6.900	B 4.000	B 2.300	B 2.050
Manganese (total) (µg/L)	39.100	3,550.000	1,370.000	2,304.670
Manganese (dissolved) (µg/L)	10.900	B 458.000	55.200	47.800
Mercury (total) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Mercury (dissolved) (µg/L)	< 0.200	< 0.200	0.200	< 0.200
Molybdenum (total) (µg/L)	< 2.500	4.000	B < 1.900	< 1.990
Molybdenum (dissolved) (µg/L)	1.600	B 1.100	B 0.630	B < 0.460
Nickel (total) (µg/L)	< 1.200	33.700	B 13.600	B 21.830
Nickel (dissolved) (µg/L)	2.300	B 2.400	B 1.300	B 0.550
Selenium (total) (µg/L)	< 4.400	< 22.200	22.600	B 1.800
Selenium (dissolved) (µg/L)	< 3.000	< 3.000	< 3.000	< 1.000
Silicon (total) (µg/L)	6,550.000	30,900.000	20,100.000	77,691.398
Silicon (dissolved) (µg/L)	5,100.000	2,250.000	1,740.000	1,410.400
Silver (total) (µg/L)	< 0.220	< 3.000	< 1.400	< 0.430
Silver (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Strontium (total) (µg/L)	286.000	294.000	184.000	218.540
Strontium (dissolved) (µg/L)	307.000	145.000	97.900	90.600
Thallium (total) (µg/L)	< 0.220	< 294.000	< 1.100	< 0.520

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	SW027	SW093	SW093	SW093
Thallium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Tin (total) (µg/L)	< 2.200	4.600	B 12.900	B < 2.220
Tin (dissolved) (µg/L)	< 1.000	< 1.000	< 1.000	< 1.000
Vanadium (total) (µg/L)	3.800	B 117.000	B 86.900	B 44.200
Vanadium (dissolved) (µg/L)	1.500	B 0.710	B 1.100	B < 0.200
Zinc (total) (µg/L)	26.700	B 1,230.000	1,010.000	686.270
Zinc (dissolved) (µg/L)	2.100	B 4.500	B 4.500	B 2.280
Gross alpha (total) (pCi/L)	3.200 ±1.000	88.000 ±17.00	56.000 ±6.900	110.000 ±15.00
Gross alpha (dissolved) (pCi/L)	---	---	---	---
Beta (total) (pCi/L)	4.900 ±0.990	97.000 ±15.00	52.000 ±3.500	85.000 ±7.200
Americium 241 (dissolved) (pCi/L)	---	---	---	---
Americium 241 (total) (pCi/L)	0.007 ±0.004	0.640 ±0.065	1.600 ±0.510	1.200 ±0.083
Radiocesium (total) (pCi/L)	---	---	---	---
Radiocesium (dissolved) (pCi/L)	---	---	---	---
Radium (total) (pCi/L)	---	---	---	---
Radium 226 (dissolved) (pCi/L)	---	---	---	---
Plutonium 239+240 (total) (pCi/L)	0.031 ±0.009	1.400 ±0.065	5.300 ±0.180	3.500 ±0.081
Plutonium 239+240 (dissolved) (pCi/L)	---	---	---	---
Strontium 89+90 (total) (pCi/L)	---	---	---	---
Strontium 89+90 (dissolved) (pCi/L)	---	---	---	---
Tritium (total) (pCi/L)	---	110.000 ±160.0	64.000 ±150.0	120.000 ±110.0
Uranium 233+234 (total) (pCi/L)	1.100 ±0.210	1.700 ±0.300	0.810 ±0.180	1.500 ±0.600
Uranium 233+234 (dissolved) (pCi/L)	---	---	---	---
Uranium 235 (total) (pCi/L)	-0.011 ±0.022	0.041 ±0.055	0.320 ±0.120	0.130 ±0.140
Uranium 235 (dissolved) (pCi/L)	---	---	---	---
Uranium 238 (total) (pCi/L)	1.100 ±0.210	1.700 ±0.300	1.000 ±0.200	1.500 ±0.600
Uranium 238 (dissolved) (pCi/L)	---	---	---	---
Cyanide (total) (µg/L)	---	---	---	---
Organic carbon (total) (mg/L)	---	---	---	---
Organic carbon (dissolved) (mg/L)	---	---	---	---

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	SW093	SW093	SW134	SW998
Beginning date (mmddyy)	06/22/94	08/10/94	08/11/94	05/28/94
Beginning time (hhmm)	1804	2143	1144	1335
Ending date (mmddyy)	06/22/94	08/10/94	08/11/94	05/28/94
Ending time (hhmm)	1818	2156	1158	1350
Mean discharge (cfs)	0.550	2.730	0.830	---
Specific conductance (uS/cm at 25°C)	340.000	130.000	230.000	---
pH	7.200	7.900	7.400	---
Temperature (°C)	---	20.500	24.600	---
Calcium (total) (µg/L)	40,437.102	65,435.020	25,093.400	14,400.000
Calcium (dissolved) (µg/L)	36,721.500	12,907.600	21,741.760	10,400.000
Magnesium (total) (µg/L)	8,897.600	9,606.680	5,915.340	4,860.000
Magnesium (dissolved) (µg/L)	7,534.300	1,837.930	4,486.140	1,800.000
Sodium (total) (µg/L)	20,847.699	6,799.200	15,372.420	16,000.000
Sodium (dissolved) (µg/L)	20,926.600	5,565.980	14,039.840	13,300.000
Potassium (total) (µg/L)	4,283.400	10,619.730	4,598.170	4,130.000
Potassium (dissolved) (µg/L)	3,159.500	2,494.940	1,993.820	2,110.000
Bicarbonate as calcium carbonate (mg/L)	115.000	78.900	51.200	25.400
Carbonate as calcium carbonate (mg/L)	< 10.000	< 10.000	< 10.000	< 10.000
Sulfate (total) (mg/L)	< 5.000	9.600	36.200	22.000
Chloride (total) (mg/L)	27.300	8.000	10.700	14.300
Fluoride (total) (mg/L)	0.270	0.160	0.640	0.140
Suspended solids (mg/L)	110.000	500.000	140.000	300.000
Nitrate/nitrite (total) (mg/L)	0.720	0.680	1.200	---
Nitrate/nitrite (total) (mg/L)	---	---	---	---
Phosphorus (total) (mg/L)	---	---	---	---
Aluminum (total) (µg/L)	6,176.500	37,854.699	12,359.970	5,760.000
Aluminum (dissolved) (µg/L)	< 50.000	< 30.000	35.840	< 50.000
Antimony (total) (µg/L)	< 0.630	< 4.600	6.300	< 1.100
Antimony (dissolved) (µg/L)	8.670	< 1.600	< 0.440	16.800
Arsenic (total) (µg/L)	2.680	< 1.000	< 1.000	< 5.600
Arsenic (dissolved) (µg/L)	< 2.190	11.600	< 2.200	< 1.000
Barium (dissolved) (µg/L)	59.580	426.000	132.000	22.100
Barium (total) (µg/L)	113.990	22.100	54.400	125.000
Beryllium (total) (µg/L)	< 0.220	< 0.140	< 0.190	< 0.600
Beryllium (dissolved) (µg/L)	< 0.100	< 1.400	< 0.760	< 0.100
Cadmium (total) (µg/L)	< 0.440	< 0.200	< 0.200	< 1.900
Cadmium (dissolved) (µg/L)	0.200	1.700	< 0.440	< 0.200
Cerium (total) (µg/L)	8.540	---	---	27.700
Cerium (dissolved) (µg/L)	< 0.100	---	---	0.140
Cesium (total) (µg/L)	0.660	< 0.100	< 0.120	1.500
Cesium (dissolved) (µg/L)	< 0.100	< 5.500	< 2.800	< 0.100
Chromium (total) (µg/L)	9.920	0.670	0.510	< 28.300
Chromium (dissolved) (µg/L)	0.570	49.900	15.400	1.400
Cobalt (total) (µg/L)	1.750	0.360	0.460	< 3.400
Cobalt (dissolved) (µg/L)	0.150	13.700	< 1.800	0.120
Copper (total) (µg/L)	241.560	9.800	2.400	12.500
Copper (dissolved) (µg/L)	4.420	111.000	< 9.200	5.700
Iron (total) (µg/L)	5,270.300	41,585.031	5,165.430	6,940.000
Iron (dissolved) (µg/L)	< 20.000	51.490	10.290	33.900
Lead (total) (µg/L)	52.730	0.240	0.120	91.600
Lead (dissolved) (µg/L)	< 0.100	111.000	8.800	0.390
Lithium (total) (µg/L)	6.960	1.600	2.600	< 7.200
Lithium (dissolved) (µg/L)	3.630	23.500	4.100	< 1.000
Manganese (total) (µg/L)	317.200	63.800	12.900	300.000
Manganese (dissolved) (µg/L)	45.260	2,130.000	39.700	8.100
Mercury (total) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Mercury (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Molybdenum (total) (µg/L)	< 1.200	0.510	2.600	< 1.400
Molybdenum (dissolved) (µg/L)	1.190	< 1.800	< 2.400	< 0.260
Nickel (total) (µg/L)	6.630	1.600	1.600	< 2.900
Nickel (dissolved) (µg/L)	< 1.120	29.100	7.300	1.200
Selenium (total) (µg/L)	< 2.200	< 3.000	< 3.000	< 11.100
Selenium (dissolved) (µg/L)	< 1.000	< 6.700	< 6.700	< 3.000
Silicon (total) (µg/L)	15,998.700	73,325.227	26,702.650	11,700.000
Silicon (dissolved) (µg/L)	3,648.100	1,017.690	5,644.470	739.000
Silver (total) (µg/L)	< 0.220	< 0.100	< 0.100	< 0.940
Silver (dissolved) (µg/L)	< 0.100	< 0.240	< 0.220	< 0.100
Strontium (total) (µg/L)	250.090	64.500	120.000	93.000
Strontium (dissolved) (µg/L)	< 205.000	189.000	147.000	56.800
Thallium (total) (µg/L)	< 0.220	< 0.100	< 0.100	< 0.600

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	SW093	SW093	SW134	SW998
Thallium (dissolved) (µg/L)	< 0.100	0.330	B	0.430
Tin (total) (µg/L)	< 5.020	< 1.000		< 1.000
Tin (dissolved) (µg/L)	< 1.000	3.100	B	< 2.000
Vanadium (total) (µg/L)	10.140	0.480	B	2.100
Vanadium (dissolved) (µg/L)	< 1.120	71.900	B	27.700
Zinc (total) (µg/L)	317.000	5.100	B	2.000
Zinc (dissolved) (µg/L)	2.770	831.000		< 31.200
Gross alpha (total) (pCi/L)	7.300 ±1.600	8.500 ±1.600		4.400 ±1.100
Gross alpha (dissolved) (pCi/L)	---	---		---
Beta (total) (pCi/L)	10.000 ±1.200	21.000 ±1.500		4.400 ±0.990
Americium 241 (dissolved) (pCi/L)	---	---		---
Americium 241 (total) (pCi/L)	0.044 ±0.010	0.680 ±0.100		0.001 ±0.006
Radiocesium (total) (pCi/L)	---	---		---
Radiocesium (dissolved) (pCi/L)	---	---		---
Radium (total) (pCi/L)	---	---		---
Radium 226 (dissolved) (pCi/L)	---	---		---
Plutonium 239+240 (total) (pCi/L)	0.033 ±0.006	0.150 ±0.021		0.001 ±0.006
Plutonium 239+240 (dissolved) (pCi/L)	---	---		---
Strontium 89+90 (total) (pCi/L)	---	---		---
Strontium 89+90 (dissolved) (pCi/L)	---	---		---
Tritium (total) (pCi/L)	93.000 ±110.0	36.000 ±150.0		---
Uranium 233+234 (total) (pCi/L)	1.300 ±0.390	0.830 ±0.270		0.740 ±0.220
Uranium 233+234 (dissolved) (pCi/L)	---	---		---
Uranium 235 (total) (pCi/L)	0.130 ±0.130	0.053 ±0.053		0.056 ±0.075
Uranium 235 (dissolved) (pCi/L)	---	---		---
Uranium 238 (total) (pCi/L)	1.500 ±0.450	0.830 ±0.270		0.800 ±0.230
Uranium 238 (dissolved) (pCi/L)	---	---		---
Cyanide (total) (µg/L)	---	---		---
Organic carbon (total) (mg/L)	---	---		---
Organic carbon (dissolved) (mg/L)	---	---		---

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	SW998	SW998	SW998	SW998
Beginning date (mmdyy)	05/31/94	06/21/94	06/22/94	08/10/94
Beginning time (hhmm)	1913	1913	1804	2145
Ending date (mmdyy)	05/31/94	06/21/94	06/22/94	08/10/94
Ending time (hhmm)	1928	2023	1819	2158
Mean discharge (cfs)	3.420	0.100	2.430	4.400
Specific conductance (uS/cm at 25°C)	---	130.000	100.000	80.000
pH	---	8.100	7.600	7.400
Temperature (°C)	---	---	---	20.500
Calcium (total) (µg/L)	10,400.000	9,771.100	8,543.600	7,100.350
Calcium (dissolved) (µg/L)	6,640.000	9,131.900	6,586.400	3,864.800
Magnesium (total) (µg/L)	5,130.000	B 1,827.500	B 2,998.800	B 4,307.540
Magnesium (dissolved) (µg/L)	1,110.000	B 1,547.400	B 1,130.700	B 629.670
Sodium (total) (µg/L)	9,990.000	10,521.100	9,446.500	6,235.120
Sodium (dissolved) (µg/L)	8,170.000	10,422.800	8,769.400	4,504.640
Potassium (total) (µg/L)	3,770.000	B 2,635.500	B 4,715.800	B 7,110.760
Potassium (dissolved) (µg/L)	1,570.000	B 2,381.500	B 2,944.000	B 3,374.560
Bicarbonate as calcium carbonate (mg/L)	13.300	24.500	25.500	< 10.000
Carbonate as calcium carbonate (mg/L)	< 10.000	< 10.000	< 10.000	< 10.000
Sulfate (total) (mg/L)	< 5.000	< 5.000	< 5.000	13.000
Chloride (total) (mg/L)	7.500	9.400	9.300	7.000
Fluoride (total) (mg/L)	0.100	0.120	0.270	< 0.100
Suspended solids (mg/L)	370.000	13.000	50.000	210.000
Nitrate/nitrite (total) (mg/L)	0.660	1.200	0.520	0.550
Nitrate/nitrite (total) (mg/L)	---	---	---	---
Phosphorus (total) (mg/L)	---	---	---	---
Aluminum (total) (µg/L)	6,930.000	1,056.600	7,741.200	10,810.300
Aluminum (dissolved) (µg/L)	< 50.000	< 50.000	< 50.000	33.840
Antimony (total) (µg/L)	< 2.200	< 0.440	< 0.440	5.100
Antimony (dissolved) (µg/L)	7.900	B 9.970	B 7.130	B < 0.730
Arsenic (total) (µg/L)	< 11.100	< 2.220	< 2.220	< 1.000
Arsenic (dissolved) (µg/L)	< 1.000	< 1.320	< 1.310	2.500
Barium (dissolved) (µg/L)	11.900	B 24.730	B 15.600	B 87.100
Barium (total) (µg/L)	128.000	B 39.240	B 73.480	B 6.100
Beryllium (total) (µg/L)	< 1.100	< 0.220	< 0.220	< 0.100
Beryllium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.560
Cadmium (total) (µg/L)	< 2.200	< 0.440	< 0.440	< 0.200
Cadmium (dissolved) (µg/L)	< 0.200	< 0.200	0.210	B 0.780
Cerium (total) (µg/L)	29.500	B 2.020	B 13.500	B ---
Cerium (dissolved) (µg/L)	0.190	B 0.240	B 0.210	B ---
Cesium (total) (µg/L)	1.800	B < 0.200	0.770	B < 0.100
Cesium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 1.500
Chromium (total) (µg/L)	32.600	B 3.440	B 11.860	B 1.100
Chromium (dissolved) (µg/L)	0.850	B 1.680	B 0.830	B 24.400
Cobalt (total) (µg/L)	< 2.700	1.150	B 2.340	B 0.970
Cobalt (dissolved) (µg/L)	0.380	B 0.600	B < 0.100	< 4.500
Copper (total) (µg/L)	12.500	B 8.340	B 11.820	B 5.900
Copper (dissolved) (µg/L)	< 3.800	5.020	B 6.740	B 25.000
Iron (total) (µg/L)	8,150.000	1,125.500	7,070.400	11,148.530
Iron (dissolved) (µg/L)	58.000	B 114.100	52.100	B 54.440
Lead (total) (µg/L)	100.000	4.710	B 37.640	B 0.480
Lead (dissolved) (µg/L)	0.520	B 0.820	B 0.690	B 70.800
Lithium (total) (µg/L)	< 11.100	< 2.220	4.520	B < 1.000
Lithium (dissolved) (µg/L)	< 1.000	< 1.000	< 1.000	7.300
Manganese (total) (µg/L)	349.000	216.720	192.410	116.000
Manganese (dissolved) (µg/L)	64.200	153.040	35.050	282.000
Mercury (total) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Mercury (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Molybdenum (total) (µg/L)	< 1.100	< 0.510	< 0.700	< 0.260
Molybdenum (dissolved) (µg/L)	< 0.220	< 0.330	< 0.240	< 1.100
Nickel (total) (µg/L)	< 5.900	3.360	B 8.250	B 1.900
Nickel (dissolved) (µg/L)	1.400	B 1.540	B 1.520	B 13.100
Selenium (total) (µg/L)	< 22.200	< 2.200	< 2.200	< 3.000
Selenium (dissolved) (µg/L)	< 3.000	< 1.000	< 1.000	< 6.700
Silicon (total) (µg/L)	15,000.000	3,320.200	16,741.699	24,947.930
Silicon (dissolved) (µg/L)	800.000	1,298.000	1,231.500	273.300
Silver (total) (µg/L)	< 1.100	< 0.220	< 0.220	< 0.100
Silver (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.220
Strontium (total) (µg/L)	80.500	57.340	53.560	19.000
Strontium (dissolved) (µg/L)	37.200	49.300	34.200	48.800
Thallium (total) (µg/L)	< 1.100	< 0.220	< 0.220	< 0.100

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	SW998	SW998	SW998	SW998
Thallium (dissolved) ($\mu\text{g/L}$)	< 0.100	< 0.100	< 0.100	< 0.220
Tin (total) ($\mu\text{g/L}$)	< 2.200	< 2.220	< 2.220	< 1.000
Tin (dissolved) ($\mu\text{g/L}$)	< 1.000	< 1.000	< 1.000	< 2.000
Vanadium (total) ($\mu\text{g/L}$)	32.100	B 2.730	B 11.660	B 1.900
Vanadium (dissolved) ($\mu\text{g/L}$)	1.000	B < 0.840	< 0.860	21.900
Zinc (total) ($\mu\text{g/L}$)	268.000	83.440	104.140	119.000
Zinc (dissolved) ($\mu\text{g/L}$)	34.900	50.660	44.520	245.000
Gross alpha (total) (pCi/L)	9.600 \pm 2.100	1.600 \pm 0.610	6.700 \pm 1.400	3.500 \pm 0.800
Gross alpha (dissolved) (pCi/L)	---	---	---	---
Beta (total) (pCi/L)	23.000 \pm 1.600	4.600 \pm 1.100	15.000 \pm 1.400	17.000 \pm 1.400
Americium 241 (dissolved) (pCi/L)	---	---	---	---
Americium 241 (total) (pCi/L)	0.006 \pm 0.006	0.001 \pm 0.002	0.003 \pm 0.003	0.001 \pm 0.006
Radiocesium (total) (pCi/L)	---	---	---	---
Radiocesium (dissolved) (pCi/L)	---	---	---	---
Radium (total) (pCi/L)	---	---	---	---
Radium 226 (dissolved) (pCi/L)	---	---	---	---
Plutonium 239+240 (total) (pCi/L)	0.018 \pm 0.008	0.003 \pm 0.003	0.005 \pm 0.003	0.003 \pm 0.003
Plutonium 239+240 (dissolved) (pCi/L)	---	---	---	---
Strontium 89+90 (total) (pCi/L)	---	---	---	---
Strontium 89+90 (dissolved) (pCi/L)	---	---	---	---
Tritium (total) (pCi/L)	---	---	---	---
Uranium 233+234 (total) (pCi/L)	0.510 \pm 0.180	-0.044 \pm 0.088	0.270 \pm 0.170	0.180 \pm 0.160
Uranium 233+234 (dissolved) (pCi/L)	---	---	---	---
Uranium 235 (total) (pCi/L)	0.013 \pm 0.052	0.027 \pm 0.053	0.049 \pm 0.050	0.000 \pm 0.048
Uranium 235 (dissolved) (pCi/L)	---	---	---	---
Uranium 238 (total) (pCi/L)	0.370 \pm 0.130	0.088 \pm 0.088	0.120 \pm 0.082	0.180 \pm 0.120
Uranium 238 (dissolved) (pCi/L)	---	---	---	---
Cyanide (total) ($\mu\text{g/L}$)	---	---	---	---
Organic carbon (total) (mg/L)	---	---	---	---
Organic carbon (dissolved) (mg/L)	---	---	---	---

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	SW998	SW998		
Beginning date (mmdyyy)	08/31/94	09/21/94		
Beginning time (hhmm)	1630	1558		
Ending date (mmdyyy)	08/31/94	09/21/94		
Ending time (hhmm)	1643	1629		
Mean discharge (cfs)	2.650	0.210		
Specific conductance (uS/cm at 25°C)	150.000	200.000		
pH	7.700	7.300		
Temperature (°C)	---	---		
Calcium (total) (µg/L)	11,810.300	14,700.000		
Calcium (dissolved) (µg/L)	10,490.420	14,833.400		
Magnesium (total) (µg/L)	2,383.780	B 2,930.000		B
Magnesium (dissolved) (µg/L)	1,939.370	B 2,729.450		B
Sodium (total) (µg/L)	13,017.730	17,100.000		
Sodium (dissolved) (µg/L)	13,533.410	18,607.480		
Potassium (total) (µg/L)	3,403.760	B 4,170.000		B
Potassium (dissolved) (µg/L)	3,331.910	B 4,148.590		B
Bicarbonate as calcium carbonate (mg/L)	25.700	36.400		
Carbonate as calcium carbonate (mg/L)	< 10.000	< 10.000		
Sulfate (total) (mg/L)	19.500	34.500		
Chloride (total) (mg/L)	12.700	14.000		
Fluoride (total) (mg/L)	0.140	0.160		
Suspended solids (mg/L)	34.000	25.000		
Nitrate/nitrite (total) (mg/L)	0.960	---		
Nitrate/nitrite (total) (mg/L)	---	2.200		
Phosphorus (total) (mg/L)	---	---		
Aluminum (total) (µg/L)	1,284.420	2,160.000		
Aluminum (dissolved) (µg/L)	< 30.000	78.230		B
Antimony (total) (µg/L)	< 3.300	< 0.440		
Antimony (dissolved) (µg/L)	< 0.440	< 5.698		
Arsenic (total) (µg/L)	< 1.000	< 2.200		
Arsenic (dissolved) (µg/L)	< 2.200	1.454		B
Barium (dissolved) (µg/L)	43.900	B 35.654		B
Barium (total) (µg/L)	24.500	B 56.100		B
Beryllium (total) (µg/L)	< 0.100	< 0.220		
Beryllium (dissolved) (µg/L)	< 0.220	< 0.100		
Cadmium (total) (µg/L)	< 0.200	< 0.440		
Cadmium (dissolved) (µg/L)	< 0.440	0.244		B
Cerium (total) (µg/L)	---	---		
Cerium (dissolved) (µg/L)	---	---		
Cesium (total) (µg/L)	< 0.100	< 0.220		
Cesium (dissolved) (µg/L)	< 0.220	0.959		B
Chromium (total) (µg/L)	0.740	B 4.200		B
Chromium (dissolved) (µg/L)	< 4.100	1.737		B
Cobalt (total) (µg/L)	1.000	B 3.000		B
Cobalt (dissolved) (µg/L)	< 2.300	2.436		B
Copper (total) (µg/L)	4.200	B < 9.500		
Copper (dissolved) (µg/L)	< 9.600	6.165		B
Iron (total) (µg/L)	2,440.290	2,330.000		
Iron (dissolved) (µg/L)	505.050	521.820		
Lead (total) (µg/L)	1.100	B 8.000		
Lead (dissolved) (µg/L)	10.300	1.414		B
Lithium (total) (µg/L)	< 1.000	< 2.200		
Lithium (dissolved) (µg/L)	< 2.200	< 2.066		
Manganese (total) (µg/L)	149.000	379.000		
Manganese (dissolved) (µg/L)	264.000	315.710		
Mercury (total) (µg/L)	< 0.200	< 0.200		
Mercury (dissolved) (µg/L)	< 0.200	< 0.200		
Molybdenum (total) (µg/L)	0.600	B < 0.720		
Molybdenum (dissolved) (µg/L)	< 0.940	< 0.764		
Nickel (total) (µg/L)	1.800	B 2.200		B
Nickel (dissolved) (µg/L)	5.200	B 3.328		B
Selenium (total) (µg/L)	< 3.000	< 6.700		
Selenium (dissolved) (µg/L)	< 6.700	< 3.000		
Silicon (total) (µg/L)	4,501.890	7,080.000		
Silicon (dissolved) (µg/L)	1,598.600	1,530.000		
Silver (total) (µg/L)	< 0.100	< 0.220		
Silver (dissolved) (µg/L)	< 0.220	< 0.100		
Strontium (total) (µg/L)	54.100	73.600		
Strontium (dissolved) (µg/L)	63.200	73.726		
Thallium (total) (µg/L)	< 0.100	< 0.220		

Table 41.-- Water-quality data, water year 1994--continued

Property or constituent	Site number (fig. 1)			
	SW998		SW998	
Thallium (dissolved) ($\mu\text{g/L}$)	0.240	B	< 0.100	
Tin (total) ($\mu\text{g/L}$)	< 1.000		< 2.000	
Tin (dissolved) ($\mu\text{g/L}$)	< 2.000		< 1.000	
Vanadium (total) ($\mu\text{g/L}$)	0.680	B	< 5.500	
Vanadium (dissolved) ($\mu\text{g/L}$)	< 4.000		1.004	B
Zinc (total) ($\mu\text{g/L}$)	64.100		153.000	
Zinc (dissolved) ($\mu\text{g/L}$)	93.200		119.500	
Gross alpha (total) (pCi/L)	2.300 \pm 0.710		5.200 \pm 1.000	
Gross alpha (dissolved) (pCi/L)	---		---	
Beta (total) (pCi/L)	6.800 \pm 1.100		12.000 \pm 1.200	
Americium 241 (dissolved) (pCi/L)	---		---	
Americium 241 (total) (pCi/L)	0.002 \pm 0.003		0.004 \pm 0.006	
Radiocesium (total) (pCi/L)	---		---	
Radiocesium (dissolved) (pCi/L)	---		---	
Radium (total) (pCi/L)	---		0.540 \pm 0.370	
Radium 226 (dissolved) (pCi/L)	---		---	
Plutonium 239+240 (total) (pCi/L)	0.003 \pm 0.003		0.008 \pm 0.005	
Plutonium 239+240 (dissolved) (pCi/L)	---		---	
Strontium 89+90 (total) (pCi/L)	---		---	
Strontium 89+90 (dissolved) (pCi/L)	---		---	
Tritium (total) (pCi/L)	---		---	
Uranium 233+234 (total) (pCi/L)	0.032 \pm 0.130		0.068 \pm 0.092	
Uranium 233+234 (dissolved) (pCi/L)	---		---	
Uranium 235 (total) (pCi/L)	-0.039 \pm 0.077		0.000 \pm 0.055	
Uranium 235 (dissolved) (pCi/L)	---		---	
Uranium 238 (total) (pCi/L)	0.190 \pm 0.130		0.068 \pm 0.092	
Uranium 238 (dissolved) (pCi/L)	---		---	
Cyanide (total) ($\mu\text{g/L}$)	---		---	
Organic carbon (total) (mg/L)	---		---	
Organic carbon (dissolved) (mg/L)	---		---	

Table 42.-- Water-quality data, water year 1995

[The source for reported concentrations is the Rocky Flats Environmental Database (RFEDS), which does not specify the number of significant figures associated with analytical determinations; consequently, all concentrations in this table are reported to three decimal places. Laboratory-determined counting errors associated with radionuclide determinations are shown as plus or minus qualifiers. For radionuclides the counting error is used to qualify the data and no other qualifiers are shown. Reported concentrations for all constituents other than radionuclides may show qualifiers to the right of the reported concentration as follows: B (for metals), reported value is less than method detection level but greater than instrument detection level. For censored values for constituents other than radionuclides, the censored limit is normally reported as the RFEDS detection limit. In some cases for metals determinations the RFEDS detection limit field may contain the the contractor-required detection limit (CRDL); for these cases the censoring limit is the RFEDS reported value; <, less than]

Property or constituent	Site number (fig. 1)			
	GS02	GS05	GS09	GS09
Beginning date (mmddyy)	11/15/94	11/14/94	10/17/94	10/17/94
Beginning time (hhmm)	1210	1540	1005	1346
Ending date (mmddyy)	11/15/94	11/14/94	10/17/94	10/17/94
Ending time (hhmm)	1712	1743	1133	1515
Mean discharge (cfs)	0.010	0.280	1.900	1.770
Specific conductance (uS/cm at 25°C)	660.000	240.000	240.000	210.000
pH	8.003	7.300	7.300	5.700
Temperature (°C)	4.300	5.200	---	---
Calcium (total) (µg/L)	72,200.000	22,400.000	24,200.000	21,600.000
Calcium (dissolved) (µg/L)	71,427.406	22,071.631	24,918.990	23,155.350
Magnesium (total) (µg/L)	15,800.000	5,950.000	4,380.000	B 3,500.000
Magnesium (dissolved) (µg/L)	16,319.340	6,184.600	4,275.150	B 3,541.750
Sodium (total) (µg/L)	42,100.000	11,800.000	15,400.000	13,300.000
Sodium (dissolved) (µg/L)	44,241.230	12,684.340	16,984.801	15,910.440
Potassium (total) (µg/L)	2,350.000	B 1,200.000	B 5,120.000	B 4,160.000
Potassium (dissolved) (µg/L)	2,593.370	B 1,299.610	B 4,982.760	B 4,726.950
Bicarbonate as calcium carbonate (mg/L)	114.000	67.300	62.600	46.500
Carbonate as calcium carbonate (mg/L)	< 10.000	< 10.000	< 10.000	< 10.000
Sulfate (total) (mg/L)	103.000	15.300	20.600	12.400
Chloride (total) (mg/L)	51.800	17.900	20.000	17.800
Fluoride (total) (mg/L)	0.490	0.250	0.240	0.240
Suspended solids (mg/L)	< 5.000	8.000	45.000	30.000
Nitrate/nitrite (total) (mg/L)	---	---	---	---
Nitrate/nitrite (total) (mg/L)	0.260	0.160	1.200	1.200
Phosphorus (total) (mg/L)	0.040	B -0.010	B ---	---
Aluminum (total) (µg/L)	< 33.300	209.000	B 3,930.000	2,300.000
Aluminum (dissolved) (µg/L)	< 30.000	< 30.000	< 30.000	< 30.000
Antimony (total) (µg/L)	< 0.440	< 0.440	21.200	B 13.700
Antimony (dissolved) (µg/L)	< 1.970	6.720	B 25.957	B 19.045
Arsenic (total) (µg/L)	< 2.200	< 2.200	< 2.200	< 2.200
Arsenic (dissolved) (µg/L)	1.040	B < 1.000	1.875	B 2.005
Barium (dissolved) (µg/L)	96.670	B 47.130	B 20.785	B 18.992
Barium (total) (µg/L)	98.500	B 53.800	B 39.300	B 35.500
Beryllium (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 0.220
Beryllium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Cadmium (total) (µg/L)	< 0.440	< 0.440	< 0.440	< 0.440
Cadmium (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Cerium (total) (µg/L)	---	---	---	---
Cerium (dissolved) (µg/L)	---	---	---	---
Cesium (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 0.220
Cesium (dissolved) (µg/L)	< 0.100	< 0.100	0.108	B 0.390
Chromium (total) (µg/L)	< 0.440	< 0.440	3.000	B 5.700
Chromium (dissolved) (µg/L)	< 0.200	< 0.200	0.415	B 0.244
Cobalt (total) (µg/L)	0.720	B 0.590	B 0.830	B 0.650
Cobalt (dissolved) (µg/L)	0.620	B 0.390	B 0.346	B 0.303
Copper (total) (µg/L)	< 2.200	< 2.200	< 5.900	< 6.500
Copper (dissolved) (µg/L)	1.250	B 1.700	B 2.032	B 2.247
Iron (total) (µg/L)	14.200	B 456.000	2,300.000	1,420.000
Iron (dissolved) (µg/L)	< 10.000	48.110	B 26.770	B 25.900
Lead (total) (µg/L)	< 0.220	< 0.220	3.600	B 3.000
Lead (dissolved) (µg/L)	< 0.100	< 0.100	0.160	B 0.180
Lithium (total) (µg/L)	7.200	B < 2.200	< 2.700	< 2.200
Lithium (dissolved) (µg/L)	8.950	B 1.800	B < 2.569	< 2.439
Manganese (total) (µg/L)	< 3.500	50.100	77.300	52.900
Manganese (dissolved) (µg/L)	2.340	B 33.650	21.976	10.974
Mercury (total) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Mercury (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Molybdenum (total) (µg/L)	< 0.620	< 0.220	< 2.500	< 2.500
Molybdenum (dissolved) (µg/L)	1.510	B < 0.860	2.672	B 2.483
Nickel (total) (µg/L)	4.000	B < 1.300	1.400	B 2.700

Table 42.-- Water-quality data, water year 1995--continued

Property or constituent	Site number (fig. 1)			
	GS02	GS05	GS09	GS09
Nickel (dissolved) (µg/L)	3.520	B 1.280	B 2.628	B 2.414
Selenium (total) (µg/L)	7.800	B < 6.700	< 6.700	< 6.700
Selenium (dissolved) (µg/L)	4.420	B < 3.000	< 3.000	< 3.000
Silicon (total) (µg/L)	6,320.000	5,990.000	11,600.000	7,050.000
Silicon (dissolved) (µg/L)	6,423.290	5,715.550	2,210.000	2,090.000
Silver (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 0.220
Silver (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Strontium (total) (µg/L)	383.000	132.000	109.000	93.700
Strontium (dissolved) (µg/L)	388.400	140.800	109.660	93.17
Thallium (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 0.220
Thallium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Tin (total) (µg/L)	< 2.200	< 2.200	< 2.000	< 2.000
Tin (dissolved) (µg/L)	< 1.000	< 1.000	< 1.000	< 1.000
Vanadium (total) (µg/L)	< 0.700	< 0.700	8.300	B 7.500
Vanadium (dissolved) (µg/L)	1.400	B < 0.300	2.362	B 2.109
Zinc (total) (µg/L)	< 4.400	9.500	B 63.800	53.200
Zinc (dissolved) (µg/L)	< 2.000	< 2.000	6.693	B 6.755
Gross alpha (total) (pCi/L)	0.990 ±1.500	0.300 ±0.530	2.700 ±0.880	2.100 ±0.790
Gross alpha (dissolved) (pCi/L)	---	---	---	---
Beta (total) (pCi/L)	5.100 ±1.000	2.100 ±0.850	8.400 ±1.200	5.600 ±1.000
Americium 241 (dissolved) (pCi/L)	---	---	---	---
Americium 241 (total) (pCi/L)	0.002 ±0.005	0.001 ±0.003	0.049 ±0.013	0.038 ±0.011
Radiocesium (total) (pCi/L)	---	---	---	---
Radiocesium (dissolved) (pCi/L)	---	---	---	---
Radium (total) (pCi/L)	---	---	---	---
Radium 226 (dissolved) (pCi/L)	---	---	---	---
Plutonium 239+240 (total) (pCi/L)	0.001 ±0.003	0.001 ±0.004	0.054 ±0.016	0.048 ±0.012
Plutonium 239+240 (dissolved) (pCi/L)	---	---	---	---
Strontium 89+90 (total) (pCi/L)	---	---	---	---
Strontium 89+90 (dissolved) (pCi/L)	---	---	---	---
Tritium (total) (pCi/L)	---	---	---	---
Uranium 233+234 (total) (pCi/L)	2.500 ±0.380	0.031 ±0.130	0.440 ±0.220	0.190 ±0.150
Uranium 233+234 (dissolved) (pCi/L)	---	---	---	---
Uranium 235 (total) (pCi/L)	0.077 ±0.077	-0.019 ±0.076	0.079 ±0.110	0.029 ±0.058
Uranium 235 (dissolved) (pCi/L)	---	---	---	---
Uranium 238 (total) (pCi/L)	1.800 ±0.300	0.110 ±0.094	0.280 ±0.180	0.170 ±0.150
Uranium 238 (dissolved) (pCi/L)	---	---	---	---
Cyanide (total) (µg/L)	---	---	---	---
Organic carbon (total) (mg/L)	---	---	---	---
Organic carbon (dissolved) (mg/L)	---	---	---	---

Table 42.-- Water-quality data, water year 1995--continued

Property or constituent	Site number (fig. 1)			
	GS09	GS10	GS10	GS10
Beginning date (mmddyy)	11/08/94	10/17/94	10/17/94	10/28/94
Beginning time (hhmm)	1649	0625	0951	1330
Ending date (mmddyy)	11/08/94	10/17/94	10/17/94	10/28/94
Ending time (hhmm)	1759	0638	1005	---
Mean discharge (cfs)	2.310	0.610	2.120	0.120
Specific conductance (uS/cm at 25°C)	390.000	530.000	120.000	10.000
pH	7.400	---	7.600	4.900
Temperature (°C)	10.000	---	---	---
Calcium (total) (µg/L)	29,300.000	50,900.000	12,700.000	532.000
Calcium (dissolved) (µg/L)	27,856.740	53,429.949	11,997.540	428.480
Magnesium (total) (µg/L)	5,610.000	14,000.000	2,770.000	B < 222.200
Magnesium (dissolved) (µg/L)	4,952.590	B 15,049.320	2,172.430	B < 200.000
Sodium (total) (µg/L)	36,500.000	37,400.000	7,100.000	< 333.300
Sodium (dissolved) (µg/L)	39,443.801	45,199.371	7,681.860	< 300.000
Potassium (total) (µg/L)	7,080.000	3,370.000	B 3,370.000	B < 333.300
Potassium (dissolved) (µg/L)	6,843.460	3,918.390	B 2,702.700	B < 300.000
Bicarbonate as calcium carbonate (mg/L)	58.100	161.000	24.200	< 10.000
Carbonate as calcium carbonate (mg/L)	< 10.000	< 10.000	< 10.000	< 10.000
Sulfate (total) (mg/L)	25.600	27.600	10.300	< 5.000
Chloride (total) (mg/L)	49.100	50.300	8.100	< 2.000
Fluoride (total) (mg/L)	0.340	0.610	0.180	< 0.100
Suspended solids (mg/L)	96.000	34.000	59.000	< 5.000
Nitrate/nitrite (total) (mg/L)	---	---	---	---
Nitrate/nitrite (total) (mg/L)	2.400	2.200	0.630	---
Phosphorus (total) (mg/L)	---	---	---	0.010 B
Aluminum (total) (µg/L)	4,270.000	2,340.000	5,320.000	< 53.800
Aluminum (dissolved) (µg/L)	< 30.000	< 30.000	45.680	B < 30.000
Antimony (total) (µg/L)	7.800	B 78.300	B 39.700	B < 0.440
Antimony (dissolved) (µg/L)	12.690	B 85.217	44.070	B 4.040 B
Arsenic (total) (µg/L)	3.700	B 4.400	B 3.000	B < 2.200
Arsenic (dissolved) (µg/L)	1.830	B 3.006	B 1.913	B < 1.000
Barium (dissolved) (µg/L)	26.390	B 76.689	B 19.749	B < 0.200
Barium (total) (µg/L)	63.500	B 104.000	B 54.700	B 1.900 B
Beryllium (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 0.220
Beryllium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Cadmium (total) (µg/L)	0.450	B 0.520	B 0.640	B < 0.440
Cadmium (dissolved) (µg/L)	< 0.200	0.237	B < 0.200	< 0.200
Cerium (total) (µg/L)	---	---	---	---
Cerium (dissolved) (µg/L)	---	---	---	---
Cesium (total) (µg/L)	< 0.730	< 0.220	< 0.220	< 0.220
Cesium (dissolved) (µg/L)	< 0.100	0.284	B 0.832	B < 0.100
Chromium (total) (µg/L)	< 5.300	2.500	B 5.300	B < 1.200
Chromium (dissolved) (µg/L)	0.440	B 0.285	B 0.422	B < 0.200
Cobalt (total) (µg/L)	1.600	B 1.200	B 1.300	B < 0.220
Cobalt (dissolved) (µg/L)	0.450	B 0.597	B 0.203	B < 0.100
Copper (total) (µg/L)	8.000	B < 7.600	< 7.900	< 2.200
Copper (dissolved) (µg/L)	4.000	B 2.659	B 3.363	B < 1.000
Iron (total) (µg/L)	4,040.000	2,330.000	3,390.000	102.000 B
Iron (dissolved) (µg/L)	33.860	B 28.780	B 49.130	B < 10.000
Lead (total) (µg/L)	7.200	3.400	B 5.900	B < 0.220
Lead (dissolved) (µg/L)	0.150	B < 0.300	0.250	B < 0.100
Lithium (total) (µg/L)	4.200	B < 6.500	< 2.200	< 2.200
Lithium (dissolved) (µg/L)	4.550	B < 5.906	< 1.233	< 1.000
Manganese (total) (µg/L)	115.000	213.000	231.000	29.900 B
Manganese (dissolved) (µg/L)	21.420	46.786	12.386	B 9.270 B
Mercury (total) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Mercury (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Molybdenum (total) (µg/L)	< 7.100	< 1.800	< 0.530	< 0.220
Molybdenum (dissolved) (µg/L)	8.180	B 1.973	B < 0.596	< 0.710
Nickel (total) (µg/L)	5.500	B 2.000	B 1.500	B < 1.300
Nickel (dissolved) (µg/L)	2.810	B 3.889	B 1.278	B < 0.600
Selenium (total) (µg/L)	< 6.700	9.600	B < 6.700	< 6.700
Selenium (dissolved) (µg/L)	< 3.000	8.567	< 3.000	< 3.000
Silicon (total) (µg/L)	11,300.000	9,920.000	14,000.000	< 111.000
Silicon (dissolved) (µg/L)	2,597.180	4,290.000	1,080.000	< 100.000
Silver (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 0.220
Silver (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Strontium (total) (µg/L)	142.000	361.000	68.000	2.200 B
Strontium (dissolved) (µg/L)	143.050	351.350	62.009	1.450
Thallium (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 0.220

Table 42.-- Water-quality data, water year 1995--continued

Property or constituent	Site number (fig. 1)			
	GS09	GS10	GS10	GS10
Thallium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Tin (total) (µg/L)	< 2.200	< 2.000	< 2.000	< 2.200
Tin (dissolved) (µg/L)	< 1.000	< 1.000	< 1.000	< 1.000
Vanadium (total) (µg/L)	15.000	8.200	11.200	< 0.700
Vanadium (dissolved) (µg/L)	3.290	0.983	1.300	< 0.300
Zinc (total) (µg/L)	112.000	132.000	122.000	9.600
Zinc (dissolved) (µg/L)	17.290	3.663	8.206	2.620
Gross alpha (total) (pCi/L)	8.000 ±1.800	3.500 ±1.200	3.800 ±0.920	-0.074 ±0.630
Gross alpha (dissolved) (pCi/L)	---	---	---	---
Beta (total) (pCi/L)	14.000 ±1.300	5.900 ±1.000	8.200 ±1.100	0.067 ±0.580
Americium 241 (dissolved) (pCi/L)	---	---	---	---
Americium 241 (total) (pCi/L)	0.099 ±0.018	0.093 ±0.015	0.055 ±0.012	0.005 ±0.005
Radiocesium (total) (pCi/L)	---	---	---	---
Radiocesium (dissolved) (pCi/L)	---	---	---	---
Radium (total) (pCi/L)	-0.190 ±0.270	---	---	---
Radium 226 (dissolved) (pCi/L)	---	---	---	---
Plutonium 239+240 (total) (pCi/L)	0.120 ±0.024	0.110 ±0.016	0.078 ±0.016	0.002 ±0.005
Plutonium 239+240 (dissolved) (pCi/L)	---	---	---	---
Strontium 89+90 (total) (pCi/L)	---	---	---	---
Strontium 89+90 (dissolved) (pCi/L)	---	---	---	---
Tritium (total) (pCi/L)	---	---	---	---
Uranium 233+234 (total) (pCi/L)	0.450 ±0.170	2.300 ±0.500	0.390 ±0.200	-0.030 ±0.120
Uranium 233+234 (dissolved) (pCi/L)	---	---	---	---
Uranium 235 (total) (pCi/L)	0.000 ±0.033	0.140 ±0.110	0.047 ±0.094	-0.036 ±0.072
Uranium 235 (dissolved) (pCi/L)	---	---	---	---
Uranium 238 (total) (pCi/L)	0.290 ±0.140	1.500 ±0.390	0.290 ±0.160	0.059 ±0.059
Uranium 238 (dissolved) (pCi/L)	---	---	---	---
Cyanide (total) (µg/L)	---	---	---	---
Organic carbon (total) (mg/L)	---	---	---	---
Organic carbon (dissolved) (mg/L)	---	---	---	---

Table 42.-- Water-quality data, water year 1995--continued

Property or constituent	Site number (fig. 1)			
	GS11	GS16	GS17	SW027
Beginning date (mmddyy)	10/25/94	10/17/94	11/05/94	10/17/94
Beginning time (hhmm)	0858	1327	1424	2228
Ending date (mmddyy)	11/02/94	10/17/94	11/05/94	10/17/94
Ending time (hhmm)	0058	1452	1544	2314
Mean discharge (cfs)	1.420	0.260	0.410	0.490
Specific conductance (uS/cm at 25°C)	550.000	490.000	570.000	490.000
pH	8.600	7.500	7.800	6.400
Temperature (°C)	6.600	---	5.400	---
Calcium (total) (µg/L)	44,300.000	72,800.000	75,500.000	57,700.000
Calcium (dissolved) (µg/L)	43,117.871	73,082.430	74,859.563	60,042.270
Magnesium (total) (µg/L)	11,200.000	9,550.000	12,700.000	9,730.000
Magnesium (dissolved) (µg/L)	11,255.130	9,191.830	13,214.220	10,282.330
Sodium (total) (µg/L)	51,900.000	15,400.000	26,300.000	27,200.000
Sodium (dissolved) (µg/L)	53,059.961	18,136.650	28,430.381	31,446.131
Potassium (total) (µg/L)	9,210.000	5,730.000	2,790.000	B 7,170.000
Potassium (dissolved) (µg/L)	9,220.230	5,310.870	3,114.390	B 8,797.690
Bicarbonate as calcium carbonate (mg/L)	113.000	150.000	150.000	119.000
Carbonate as calcium carbonate (mg/L)	< 10.000	< 10.000	< 10.000	< 10.000
Sulfate (total) (mg/L)	49.500	32.600	84.400	28.200
Chloride (total) (mg/L)	68.800	52.200	40.800	44.600
Fluoride (total) (mg/L)	0.500	0.370	0.430	0.490
Suspended solids (mg/L)	16.000	220.000	15.000	6.000
Nitrate/nitrite (total) (mg/L)	---	---	---	---
Nitrate/nitrite (total) (mg/L)	---	0.250	---	2.200
Phosphorus (total) (mg/L)	---	---	---	---
Aluminum (total) (µg/L)	334.000	8,560.000	198.000	B 400.000
Aluminum (dissolved) (µg/L)	< 30.000	< 30.000	< 30.000	< 30.000
Antimony (total) (µg/L)	< 0.900	< 0.440	< 0.440	< 0.440
Antimony (dissolved) (µg/L)	3.910	B < 1.817	3.630	B < 4.294
Arsenic (total) (µg/L)	9.100	B 2.300	B < 2.200	< 2.200
Arsenic (dissolved) (µg/L)	8.240	B < 1.000	1.040	B 1.683
Barium (dissolved) (µg/L)	37.660	B 138.130	B 109.660	B 106.160
Barium (total) (µg/L)	47.000	B 199.000	B 114.000	B 111.000
Beryllium (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 0.220
Beryllium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Cadmium (total) (µg/L)	< 0.440	< 0.440	< 0.440	< 0.440
Cadmium (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Cerium (total) (µg/L)	---	---	---	---
Cerium (dissolved) (µg/L)	---	---	---	---
Cesium (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 0.220
Cesium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	0.374
Chromium (total) (µg/L)	< 0.600	5.700	B < 0.440	< 0.440
Chromium (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Cobalt (total) (µg/L)	1.900	B 2.600	B 0.820	B 0.530
Cobalt (dissolved) (µg/L)	1.760	B 0.533	B 0.620	B 0.630
Copper (total) (µg/L)	2.300	B < 6.500	3.000	B < 4.200
Copper (dissolved) (µg/L)	1.860	B < 1.000	< 1.000	2.574
Iron (total) (µg/L)	260.000	6,670.000	279.000	246.000
Iron (dissolved) (µg/L)	< 10.000	25.670	B 23.480	B 13.000
Lead (total) (µg/L)	0.520	B 9.100	0.350	B 15.800
Lead (dissolved) (µg/L)	< 0.100	< 0.300	< 0.100	0.100
Lithium (total) (µg/L)	8.800	B < 7.300	5.000	B < 6.700
Lithium (dissolved) (µg/L)	10.990	< 3.240	6.510	B < 6.896
Manganese (total) (µg/L)	112.000	217.000	19.400	B 22.700
Manganese (dissolved) (µg/L)	2.130	B 4.888	B 2.870	B 9.857
Mercury (total) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Mercury (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Molybdenum (total) (µg/L)	8.800	B < 0.250	< 0.270	< 1.700
Molybdenum (dissolved) (µg/L)	9.850	B < 0.334	< 1.250	1.954
Nickel (total) (µg/L)	5.300	B 5.300	B 4.000	B 6.200
Nickel (dissolved) (µg/L)	4.820	B 3.345	B 3.380	B 4.310
Selenium (total) (µg/L)	17.000	< 6.700	< 6.700	< 6.700
Selenium (dissolved) (µg/L)	7.260	< 3.000	4.060	B 3.581
Silicon (total) (µg/L)	5,040.000	35,700.000	10,500.000	5,850.000
Silicon (dissolved) (µg/L)	4,425.720	12,900.000	10,310.960	5,050.000
Silver (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 0.220
Silver (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Strontium (total) (µg/L)	253.000	258.000	336.000	277.000
Strontium (dissolved) (µg/L)	259.260	240.140	345.250	285.930
Thallium (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 0.220

Table 42.-- Water-quality data, water year 1995--continued

Property or constituent	Site number (fig. 1)			
	GS11	GS16	GS17	SW027
Thallium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Tin (total) (µg/L)	< 2.200	< 2.000	< 2.200	< 2.000
Tin (dissolved) (µg/L)	< 1.000	< 1.000	< 1.000	< 1.000
Vanadium (total) (µg/L)	5.500	12.500	< 0.700	< 2.700
Vanadium (dissolved) (µg/L)	6.720	0.710	0.900	1.415
Zinc (total) (µg/L)	16.400	50.500	9.000	11.400
Zinc (dissolved) (µg/L)	3.640	< 2.000	< 2.000	2.433
Gross alpha (total) (pCi/L)	2.000 ±1.100	4.300 ±1.300	1.400 ±1.100	1.800 ±0.950
Gross alpha (dissolved) (pCi/L)	---	---	---	---
Beta (total) (pCi/L)	9.300 ±1.100	8.300 ±1.200	5.300 ±1.100	9.000 ±1.200
Americium 241 (dissolved) (pCi/L)	---	---	---	---
Americium 241 (total) (pCi/L)	0.001 ±0.005	0.005 ±0.004	0.003 ±0.005	0.011 ±0.007
Radiocesium (total) (pCi/L)	---	---	---	---
Radiocesium (dissolved) (pCi/L)	---	---	---	---
Radium (total) (pCi/L)	---	---	---	---
Radium 226 (dissolved) (pCi/L)	---	---	---	---
Plutonium 239+240 (total) (pCi/L)	0.002 ±0.003	0.010 ±0.007	0.011 ±0.007	0.004 ±0.006
Plutonium 239+240 (dissolved) (pCi/L)	---	---	---	---
Strontium 89+90 (total) (pCi/L)	---	---	---	---
Strontium 89+90 (dissolved) (pCi/L)	---	---	---	---
Tritium (total) (pCi/L)	---	---	---	---
Uranium 233+234 (total) (pCi/L)	0.800 ±0.240	0.330 ±0.180	0.750 ±0.230	1.200 ±0.380
Uranium 233+234 (dissolved) (pCi/L)	---	---	---	---
Uranium 235 (total) (pCi/L)	0.060 ±0.081	0.053 ±0.053	0.000 ±0.039	0.140 ±0.110
Uranium 235 (dissolved) (pCi/L)	---	---	---	---
Uranium 238 (total) (pCi/L)	0.830 ±0.240	0.150 ±0.130	0.560 ±0.200	1.500 ±0.390
Uranium 238 (dissolved) (pCi/L)	---	---	---	---
Cyanide (total) (µg/L)	---	---	---	---
Organic carbon (total) (mg/L)	---	---	---	---
Organic carbon (dissolved) (mg/L)	---	---	---	---

Table 42.-- Water-quality data, water year 1995--continued

Property or constituent	Site number (fig. 1)			
	SW093	SW093	SW134	SW134
Beginning date (mmddyy)	10/17/94	10/28/94	10/08/94	10/25/94
Beginning time (hhmm)	0659	1415	1150	1544
Ending date (mmddyy)	10/17/94	10/28/94	10/08/94	10/25/94
Ending time (hhmm)	0719	---	1205	---
Mean discharge (cfs)	1.130	---	0.820	---
Specific conductance (uS/cm at 25°C)	300.000	10.000	290.000	280.000
pH	7.200	6.600	---	8.000
Temperature (°C)	---	---	---	8.300
Calcium (total) (µg/L)	46,500.000	1,090.000	39,100.000	37,200.000
Calcium (dissolved) (µg/L)	34,273.410	939.310	32,494.420	31,577.600
Magnesium (total) (µg/L)	8,660.000	< 222.200	18,200.000	B 11,300.000
Magnesium (dissolved) (µg/L)	7,028.160	B < 200.000	6,908.660	6,523.870
Sodium (total) (µg/L)	15,500.000	< 333.300	16,400.000	B 16,200.000
Sodium (dissolved) (µg/L)	17,734.301	B < 300.000	19,079.369	16,774.510
Potassium (total) (µg/L)	7,210.000	< 333.300	15,400.000	B 5,800.000
Potassium (dissolved) (µg/L)	5,644.540	B < 300.000	2,090.980	B 1,387.430
Bicarbonate as calcium carbonate (mg/L)	103.000	< 10.000	76.800	77.500
Carbonate as calcium carbonate (mg/L)	< 10.000	< 10.000	< 10.000	< 10.000
Sulfate (total) (mg/L)	16.900	< 5.000	41.900	39.600
Chloride (total) (mg/L)	29.000	< 2.000	14.300	13.000
Fluoride (total) (mg/L)	0.250	< 0.100	0.460	0.470
Suspended solids (mg/L)	250.000	< 5.000	1,600.000	700.000
Nitrate/nitrite (total) (mg/L)	---	---	---	---
Nitrate/nitrite (total) (mg/L)	0.600	---	---	---
Phosphorus (total) (mg/L)	---	-0.010	B ---	---
Aluminum (total) (µg/L)	13,500.000	< 88.900	29,000.000	42,000.000
Aluminum (dissolved) (µg/L)	< 150.000	< 30.000	107.440	B 30.430
Antimony (total) (µg/L)	< 0.440	< 0.440	< 0.440	< 0.440
Antimony (dissolved) (µg/L)	< 3.263	< 2.490	< 6.907	4.710
Arsenic (total) (µg/L)	13.400	B < 2.200	16.700	B 7.900
Arsenic (dissolved) (µg/L)	< 1.000	< 1.000	< 1.000	< 1.000
Barium (dissolved) (µg/L)	46.286	B 0.280	B 58.397	B 67.020
Barium (total) (µg/L)	265.000	B 2.500	B 630.000	299.000
Beryllium (total) (µg/L)	< 0.220	< 0.220	< 1.700	< 0.560
Beryllium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Cadmium (total) (µg/L)	0.660	B < 0.440	0.460	B < 0.440
Cadmium (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Cerium (total) (µg/L)	---	---	---	---
Cerium (dissolved) (µg/L)	---	---	---	---
Cesium (total) (µg/L)	< 0.700	< 0.220	15.900	B 5.600
Cesium (dissolved) (µg/L)	0.531	B < 0.100	0.706	B < 0.100
Chromium (total) (µg/L)	13.800	B < 0.550	55.200	16.200
Chromium (dissolved) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Cobalt (total) (µg/L)	5.400	B < 0.220	19.300	B 7.400
Cobalt (dissolved) (µg/L)	0.408	B < 0.100	0.327	B 0.280
Copper (total) (µg/L)	17.800	B < 2.200	44.300	B 17.100
Copper (dissolved) (µg/L)	3.269	B < 1.000	1.150	B 1.190
Iron (total) (µg/L)	36,200.000	79.000	B 88,600.000	37,200.000
Iron (dissolved) (µg/L)	57.300	B < 10.000	45.000	B 12.600
Lead (total) (µg/L)	18.500	< 0.220	42.500	16.800
Lead (dissolved) (µg/L)	< 0.300	< 0.100	0.120	B < 0.100
Lithium (total) (µg/L)	< 5.100	< 2.200	154.000	9.100
Lithium (dissolved) (µg/L)	< 2.860	< 1.000	< 1.831	1.280
Manganese (total) (µg/L)	1,910.000	13.700	B 364.000	239.000
Manganese (dissolved) (µg/L)	29.534	1.050	B 1.201	B < 0.400
Mercury (total) (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200
Mercury (dissolved) (µg/L)	< 0.200	< 0.200	4.770	< 0.200
Molybdenum (total) (µg/L)	< 1.700	< 0.220	6.000	B < 3.200
Molybdenum (dissolved) (µg/L)	< 0.852	< 1.320	2.304	B 2.520
Nickel (total) (µg/L)	8.300	B < 1.300	43.100	B 16.900
Nickel (dissolved) (µg/L)	2.682	B < 0.600	1.925	B 1.410
Selenium (total) (µg/L)	< 6.700	< 6.700	< 6.700	< 6.700
Selenium (dissolved) (µg/L)	< 3.000	< 3.000	< 3.000	< 3.000
Silicon (total) (µg/L)	34,300.000	190.000	B 77,000.000	73,900.000
Silicon (dissolved) (µg/L)	3,065.000	< 100.000	4,870.000	6,731.110
Silver (total) (µg/L)	< 0.220	< 0.220	< 0.220	< 0.220
Silver (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Strontium (total) (µg/L)	220.000	5.500	B 158.000	170.000
Strontium (dissolved) (µg/L)	186.220	4.980	159.150	165.040
Thallium (total) (µg/L)	< 0.220	< 0.220	1.100	B 0.490

Table 42.-- Water-quality data, water year 1995--continued

Property or constituent	Site number (fig. 1)			
	SW093	SW093	SW134	SW134
Thallium (dissolved) (µg/L)	< 0.100	< 0.100	< 0.100	< 0.100
Tin (total) (µg/L)	< 2.000	< 2.200	4.200	B < 2.700
Tin (dissolved) (µg/L)	< 1.000	< 1.000	< 1.000	< 1.000
Vanadium (total) (µg/L)	22.300	B < 0.700	92.500	B 61.900
Vanadium (dissolved) (µg/L)	< 0.300	0.510	B 0.408	B 0.450
Zinc (total) (µg/L)	334.000	7.000	B 85.900	53.400
Zinc (dissolved) (µg/L)	2.200	B < 2.000	< 2.000	< 2.000
Gross alpha (total) (pCi/L)	10.000 ±2.000	0.400 ±0.520	45.000 ±7.600	44.000 ±7.800
Gross alpha (dissolved) (pCi/L)	---	---	---	---
Beta (total) (pCi/L)	16.060 ±1.400	0.048 ±0.590	34.000 ±4.300	35.000 ±6.300
Americium 241 (dissolved) (pCi/L)	---	---	---	---
Americium 241 (total) (pCi/L)	0.026 ±0.007	0.002 ±0.003	0.000 ±0.005	-0.001 ±0.004
Radiocesium (total) (pCi/L)	---	---	---	---
Radiocesium (dissolved) (pCi/L)	---	---	---	---
Radium (total) (pCi/L)	1.200 ±0.490	---	4.900 ±0.620	2.100 ±0.430
Radium 226 (dissolved) (pCi/L)	---	---	---	---
Plutonium 239+240 (total) (pCi/L)	0.026 ±0.008	-0.003 ±0.004	0.002 ±0.004	0.001 ±0.003
Plutonium 239+240 (dissolved) (pCi/L)	---	---	---	---
Strontium 89+90 (total) (pCi/L)	---	---	---	---
Strontium 89+90 (dissolved) (pCi/L)	---	---	---	---
Tritium (total) (pCi/L)	1,100.000 ±190.0	---	---	---
Uranium 233+234 (total) (pCi/L)	0.800 ±0.250	0.072 ±0.150	5.100 ±0.780	1.300 ±0.400
Uranium 233+234 (dissolved) (pCi/L)	---	---	---	---
Uranium 235 (total) (pCi/L)	0.042 ±0.085	0.000 ±0.088	0.290 ±0.180	0.028 ±0.110
Uranium 235 (dissolved) (pCi/L)	---	---	---	---
Uranium 238 (total) (pCi/L)	1.400 ±0.340	0.000 ±0.072	4.900 ±0.740	1.500 ±0.400
Uranium 238 (dissolved) (pCi/L)	---	---	---	---
Cyanide (total) (µg/L)	---	---	---	---
Organic carbon (total) (mg/L)	---	---	---	---
Organic carbon (dissolved) (mg/L)	---	---	---	---

Table 42.-- Water-quality data, water year 1995--continued

Property or constituent	Site number (fig. 1)	
	SW998	SW093
Beginning date (mmddyy)	10/15/94	10/31/94
Beginning time (hhmm)	1049	1030
Ending date (mmddyy)	10/15/94	10/31/94
Ending time (hhmm)	1120	---
Mean discharge (cfs)	0.170	---
Specific conductance (uS/cm at 25°C)	240.000	0.000
pH	7.600	5.300
Temperature (°C)	---	---
Calcium (total) (µg/L)	16,400.000	< 222.200
Calcium (dissolved) (µg/L)	16,931.230	< 200.000
Magnesium (total) (µg/L)	3,240.000	B < 222.200
Magnesium (dissolved) (µg/L)	3,342.700	B < 200.000
Sodium (total) (µg/L)	21,900.000	< 333.300
Sodium (dissolved) (µg/L)	24,562.619	< 300.000
Potassium (total) (µg/L)	5,100.000	B < 333.300
Potassium (dissolved) (µg/L)	5,967.080	< 300.000
Bicarbonate as calcium carbonate (mg/L)	36.400	< 10.000
Carbonate as calcium carbonate (mg/L)	< 10.000	< 10.000
Sulfate (total) (mg/L)	23.200	< 5.000
Chloride (total) (mg/L)	29.600	< 2.000
Fluoride (total) (mg/L)	0.190	< 0.100
Suspended solids (mg/L)	< 5.000	< 5.000
Nitrate/nitrite (total) (mg/L)	---	---
Nitrate/nitrite (total) (mg/L)	0.880	---
Phosphorus (total) (mg/L)	---	-0.010
Aluminum (total) (µg/L)	309.000	< 33.300
Aluminum (dissolved) (µg/L)	< 30.000	< 30.000
Antimony (total) (µg/L)	< 0.440	< 0.440
Antimony (dissolved) (µg/L)	8.270	B < 2.930
Arsenic (total) (µg/L)	< 2.200	< 2.200
Arsenic (dissolved) (µg/L)	< 1.000	< 1.000
Barium (dissolved) (µg/L)	41.493	B < 0.200
Barium (total) (µg/L)	48.700	B 0.500
Beryllium (total) (µg/L)	< 0.220	< 0.220
Beryllium (dissolved) (µg/L)	< 0.100	< 0.100
Cadmium (total) (µg/L)	< 0.440	< 0.440
Cadmium (dissolved) (µg/L)	< 0.200	< 0.200
Cerium (total) (µg/L)	---	---
Cerium (dissolved) (µg/L)	---	---
Cesium (total) (µg/L)	< 0.220	< 0.220
Cesium (dissolved) (µg/L)	1.022	B < 0.100
Chromium (total) (µg/L)	1.700	B < 0.530
Chromium (dissolved) (µg/L)	1.448	B < 0.200
Cobalt (total) (µg/L)	1.300	B < 0.220
Cobalt (dissolved) (µg/L)	1.122	B < 0.100
Copper (total) (µg/L)	< 4.100	< 2.200
Copper (dissolved) (µg/L)	6.793	B < 1.000
Iron (total) (µg/L)	764.000	25.500
Iron (dissolved) (µg/L)	314.110	< 16.640
Lead (total) (µg/L)	1.500	B < 0.220
Lead (dissolved) (µg/L)	0.654	B < 0.100
Lithium (total) (µg/L)	< 2.200	< 2.200
Lithium (dissolved) (µg/L)	< 1.474	< 1.000
Manganese (total) (µg/L)	169.000	< 6.300
Manganese (dissolved) (µg/L)	132.350	1.890
Mercury (total) (µg/L)	< 0.200	< 0.200
Mercury (dissolved) (µg/L)	< 0.200	< 0.200
Molybdenum (total) (µg/L)	< 0.380	< 0.490
Molybdenum (dissolved) (µg/L)	< 0.493	1.470
Nickel (total) (µg/L)	< 1.300	< 1.300
Nickel (dissolved) (µg/L)	3.197	B < 0.600
Selenium (total) (µg/L)	< 6.700	< 6.700
Selenium (dissolved) (µg/L)	< 3.000	< 3.000
Silicon (total) (µg/L)	3,130.000	< 111.000
Silicon (dissolved) (µg/L)	2,720.000	< 100.000
Silver (total) (µg/L)	< 0.220	< 0.220
Silver (dissolved) (µg/L)	< 0.100	< 0.100
Strontium (total) (µg/L)	85.500	0.480
Strontium (dissolved) (µg/L)	86.297	< 0.100
Thallium (total) (µg/L)	< 0.220	< 0.220

Table 42.-- Water-quality data, water year 1995--continued

Property or constituent	Site number (fig. 1)	
	SW998	SW093
Thallium (dissolved) ($\mu\text{g/L}$)	< 0.100	< 0.100
Tin (total) ($\mu\text{g/L}$)	< 2.000	< 2.200
Tin (dissolved) ($\mu\text{g/L}$)	< 1.000	< 1.000
Vanadium (total) ($\mu\text{g/L}$)	< 1.600	< 0.700
Vanadium (dissolved) ($\mu\text{g/L}$)	< 0.300	0.740 B
Zinc (total) ($\mu\text{g/L}$)	78.700	5.900 B
Zinc (dissolved) ($\mu\text{g/L}$)	49.684	2.150 B
Gross alpha (total) (pCi/L)	0.500 \pm 0.470	0.096 \pm 0.710
Gross alpha (dissolved) (pCi/L)	---	---
Beta (total) (pCi/L)	5.400 \pm 1.100	-0.110 \pm 0.750
Americium 241 (dissolved) (pCi/L)	---	---
Americium 241 (total) (pCi/L)	-0.001 \pm 0.003	0.000 \pm 0.003
Radiocesium (total) (pCi/L)	---	---
Radiocesium (dissolved) (pCi/L)	---	---
Radium (total) (pCi/L)	---	---
Radium 226 (dissolved) (pCi/L)	---	---
Plutonium 239+240 (total) (pCi/L)	0.000 \pm 0.003	-0.001 \pm 0.003
Plutonium 239+240 (dissolved) (pCi/L)	---	---
Strontium 89+90 (total) (pCi/L)	---	---
Strontium 89+90 (dissolved) (pCi/L)	---	---
Tritium (total) (pCi/L)	---	---
Uranium 233+234 (total) (pCi/L)	0.000 \pm 0.079	0.000 \pm 0.071
Uranium 233+234 (dissolved) (pCi/L)	---	---
Uranium 235 (total) (pCi/L)	0.000 \pm 0.048	0.086 \pm 0.086
Uranium 235 (dissolved) (pCi/L)	---	---
Uranium 238 (total) (pCi/L)	0.020 \pm 0.039	0.071 \pm 0.071
Uranium 238 (dissolved) (pCi/L)	---	---
Cyanide (total) ($\mu\text{g/L}$)	---	---
Organic carbon (total) (mg/L)	---	---
Organic carbon (dissolved) (mg/L)	---	---

Table 43. Suspended-sediment data, water year 1994

[Time noted is start time for automatic (composite) samples, and instantaneous time for manual samples; discharge noted is mean discharge for automatic (composite) samples, and instantaneous discharge for manual samples.]

USGS station identification	Site number	Date (mmddyy)	Time (hhmm)	Discharge (ft ³ /s)	Concentration (mg/L)	Silt/clay (percent)	Sand (percent)	Sampling method
395342105110800	GS09	09/21/94	1248	0.90	68	86	14	Manual
		09/21/94	1258	0.85	28	96	4	Automatic
		09/21/94	1300	0.90	24	81	19	Manual
395335105112700	GS10	05/28/94	1219	3.25	1,250	98	2	Automatic
		05/31/94	1759	5.62	1,650	95	5	Automatic
		06/20/94	2031	0.22	199	97	3	Automatic
		06/21/94	1838	4.33	1,610	96	4	Automatic
		06/22/94	1810	0.81	268	97	3	Automatic
		08/31/94	1642	0.44	101	93	7	Automatic
		09/21/94	1226	0.68	189	99	1	Automatic
		09/21/94	1233	1.25	522	98	2	Manual
		09/21/94	1235	1.18	5,238	100	0	Manual
		09/21/94	1237	1.15	324	99	1	Manual
		09/22/94	1202	0.63	30	100	0	Automatic
395403105104700	GS11	06/20/94	1024	1.67	7	77	23	Automatic
		07/23/94	0639	1.63	8	43	57	Automatic
395358105110500	GS12	09/29/94	1254	1.50	58	100	0	Automatic
395301105120800	GS16	09/22/94	1240	0.12	267	83	17	Automatic
395349105114900	SW093	05/28/94	1324	1.29	1,510	96	4	Automatic
		05/31/94	1913	1.81	1,090	95	5	Automatic
		06/21/94	1841	3.23	1,140	92	8	Automatic
		06/22/94	1804	0.55	126	96	4	Automatic
395332105124600	SW998	05/28/94	1335	---	333	96	4	Automatic
		05/31/94	1913	3.42	392	97	3	Automatic
		06/21/94	1913	0.10	23	72	28	Automatic
		06/22/94	1804	2.43	180	95	5	Automatic
		08/10/94	2145	4.40	292	96	4	Automatic
		08/31/94	1630	2.65	35	90	10	Automatic
		09/21/94	1243	0.11	37	100	0	Automatic
		09/21/94	1558	0.21	36	100	0	Automatic

Table 44. Suspended-sediment data, water year 1995

[Time noted is start time for automatic (composite) samples, and instantaneous time for manual samples; discharge noted is mean discharge for automatic (composite) samples, and instantaneous discharge for manual samples.]

USGS station identification	Site number	Date (mmddyy)	Time (hhmm)	Discharge (ft ³ /s)	Concentration (mg/L)	Silt/clay (percent)	Sand (percent)	Sampling method
395240105095500	GS01	04/27/95	1325	3.60	21	---	---	Manual
		04/27/95	1402	3.65	38	---	---	Manual
395253105095500	GS02	11/15/94	1210	0.01	3	50	50	Automatic
395407105095900	GS03	04/27/95	1430	5.18	73	---	---	Manual
395306105131700	GS05	11/14/94	1540	0.28	7	93	7	Automatic
395342105110800	GS09	10/17/94	1005	1.90	54	97	3	Automatic
		10/17/94	1346	1.77	35	97	3	Automatic
		11/08/94	1649	2.31	114	98	2	Automatic
395335105112700	GS10	10/17/94	0625	0.61	47	97	3	Automatic
		10/17/94	0951	2.12	67	98	2	Automatic
		04/28/95	1305	0.46	40	---	---	Manual
395403105104700	GS11	10/25/94	0858	1.42	17	99	1	Automatic
395301105120800	GS16	10/17/94	1327	0.26	235	85	15	Automatic
395309105114100	GS17	11/05/94	1424	0.41	10	98	2	Automatic
395313105110500	SW027	10/17/94	2228	0.48	7	90	10	Automatic
		04/28/95	1305	0.69	12	---	---	Manual
395349105114900	SW093	10/17/94	0659	1.13	269	99	1	Automatic
		04/28/95	1315	0.90	34	---	---	Manual
395331105134400	SW134	10/08/94	1150	0.82	1,760	100	0	Automatic
		10/25/94	1544	---	818	100	0	Automatic
395332105124600	SW998	10/15/94	1049	0.17	7	91	9	Automatic
		04/28/95	1340	0.39	8	---	---	Manual

APPENDIXES

Appendix 1: Discharge Data Collection and Computation

The data obtained at a continuous surface-water gaging station on a stream or conveyance, such as an irrigation ditch, consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that might affect the relation of stage to discharge. These data, together with supplemental information such as climatologic records, are used to compute daily mean discharges.

Continuous records of stage are obtained with electronic recorders that store stage values at selected time intervals or with satellite data-collection platforms that transmit near real-time data at selected time intervals to office computers. Measurements of discharge are made with current meters, using methods adapted by the USGS as a result of experience accumulated since 1880, or with flumes or weirs that are calibrated to provide a relation of observed stage to discharge. These methods are described by Carter and Davidian (1968) and by Rantz and others (1982).

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are constructed. From these curves, rating tables indicating the computed discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using:

(1) Logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-back-water techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic vegetation growth or debris on the control. For some gaging stations, formation of ice in the winter can obscure the stage-discharge relations so that daily mean discharges need to be estimated from other information such as temperature and precipitation records, notes of observations, and records for other gaging stations in the same or nearby basins for comparable periods.

For most gaging stations there might be periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily mean discharge or contents. This record loss occurs when recording instruments malfunction or otherwise fail to operate properly, intakes are plugged, the float is frozen in the stilling well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, climatologic records, and comparison with other gaging-station records from the same or nearby basins. Information explaining how estimated daily-discharge values are identified in gaging-station records is provided in the "Identifying Estimated Daily Discharge" section of this Appendix.

Data presentation

The daily mean discharge tables published for each continuous-record surface-water gaging station consist of four parts: the station description; the table of daily mean discharge values for the water year with summary data; a tabular statistical summary of monthly mean discharge data for the water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous discharge, and summaries of 7-day low-flow minimums, annual runoff, and flow duration.

Station description

The station description provides, under various headings, descriptive information including gaging-station location, drainage area, period of record, gage information, historical extremes outside the period of record, record accuracy, and other remarks pertinent to gaging-station operation and regulation. The following information is provided with each continuous record of daily mean discharge:

SITE NUMBER.--This entry identifies the unique site identification number.

STATION IDENTIFICATION.--This entry identifies the unique, 15-digit number assigned to a gaging station by the USGS for use in ADAPS. This number generally is the latitude and longitude of the gage with a sequence number (00) at the end.

LOCATION.--This entry identifies the gaging-station latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic unit number; county; and geographic location. Gaging-station latitudes, longitudes, and geographic locations were provided by EG&G Rocky Flats, Incorporated (1993b).

DRAINAGE AREA.--This entry identifies the drainage area (in square miles) of the gaged basin. If, because of unusual natural conditions or anthropogenic controls, some part of the basin does not contribute flow to the total flow measured at the gage, the noncontributing drainage area also is identified. Drainage area usually is measured using digital techniques and the most accurate maps available. Because the type of map available might vary from one drainage basin to another, the accuracy of digitized drainage areas also can vary. Drainage areas are updated as better maps become available. Some of the gaging stations included in this report measure stage and discharge in channels that convey water to or from reservoirs or other features; these channels might have little or no contributing drainage area. Drainage areas in this report were provided by EG&G Rocky Flats, Incorporated (1993b).

PERIOD OF RECORD.--This entry identifies the period for which there are published records at the gage. This entry includes the month and year of the start of publication of hydrologic records by the USGS and the words "to current year" if the records are to be continued into the following year. Periods for which hydrologic records are available, but not published by the USGS, might be noted.

GAGE.--This entry identifies: the type of gage currently in use; the datum of the current gage referred to sea level; and a condensed history of the types, locations, and datums of previous gages. Gage datum for each gaging station was provided by EG&G Rocky Flats, Incorporated (1993b).

REMARKS.--This entry is used to provide information concerning the accuracy of the records, any special methods of computation, and conditions that affect natural flow at the gaging station. Other information might include average discharge data for the period of record, extremes in data for the period of record and the current year, and any other unusual or noteworthy conditions.

Daily Mean Discharge Values

The daily mean discharge values computed for each gaging station during a water year are listed in the body of the data table. In the monthly summary part of the table, the line headed "TOTAL" lists the sum of the daily figures for each month; the line headed "MEAN" lists the average discharge, in cubic feet per second during the month; and the lines headed "MAX" and "MIN" list the maximum and minimum daily mean discharges for each month. Discharge for the month also is expressed in acre-feet (line headed "AC-FT"). Discharge, in cubic feet per second per square mile, and runoff, in inches or in acre-feet is omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the appropriate discharges are listed for the calendar and water years. Missing records or periods prior to start of data collection are indicated by three dashes in place of the discharge.

Summary Statistics

A section of the table titled SUMMARY STATISTICS follows the STATISTICS OF MONTHLY MEAN DATA section. This section consists of four columns, with the first column containing the statistics being reported. The section provides a statistical summary of annual and daily discharges, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, WATER YEARS_____-_____, consists of all of the gaging-station records in the specified water years, inclusive, including complete months of record for partial water years, if any, and usually coincides with the period of record for the gaging station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the station description. All of the calculations for the statistical characteristics designated ANNUAL (these line headings are identified subsequently in this section), except for the ANNUAL SEVEN-DAY MINIMUM statistic, are for the designated period using complete water years.

The date or water year, as appropriate, of the first occurrence of each extreme discharge statistic is provided adjacent to the statistic. If the same extreme discharge occurs again, dates of repeated occurrence are noted in the REMARKS paragraph of the station description or in footnotes. Selected flow-duration-curve statistics and runoff data also are listed when a sufficient period of record is available. Runoff data are omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each table of daily mean discharge. Summary statistics are not computed if no discharges occur during the water year. The following comments clarify information presented under the various line headings of the SUMMARY STATISTICS section of the table.

ANNUAL TOTAL.--The total of all daily mean discharges for a given water year.

ANNUAL MEAN.--The annual mean discharge for a given water year.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL SEVEN-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the "Summary Statistics" section of the table is the initial date of the 7-day period. (The 7-day minimum flow statistic is different than the 7-day 10-year low-flow statistic.)

ANNUAL RUNOFF (AC-FT).--Indicates the total quantity of water in runoff for a drainage area for the year, in acre-feet. One acre-foot is the quantity of water needed to cover 1 acre to a depth of 1 ft and is equal to 43,560 ft³ or about 326,000 gal.

10 PERCENT EXCEEDS.--The discharge that is exceeded by 10 percent of the flow for the designated period.

50 PERCENT EXCEEDS.--The discharge that is exceeded by 50 percent of the flow for the designated period.

90 PERCENT EXCEEDS.--The discharge that is exceeded by 90 percent of the flow for the designated period.

Identifying Estimated Daily Discharge

Estimated daily discharges published in the water-discharge tables of annual USGS water-data reports are identified by flagging individual daily values with the letter "e" and printing a table footnote, "e Estimated."

Accuracy of the Records

The accuracy of discharge records depends primarily on: (1) The stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under REMARKS. Excellent means that about 95 percent of the daily discharges are within 5 percent of their true value; good, within 10 percent; and fair, within 15 percent. Records that do not meet the criteria mentioned are rated poor. Different accuracies might be attributed to different parts of a given record.

Daily mean discharges in this report are listed to the nearest hundredth of a cubic foot per second for daily values less than 1 ft³/s (a discharge of 0.01 ft³/s is the smallest quantified discharge); to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to three significant figures for more than 1,000 ft³/s.

Other Records Available

Information used in the preparation of the records in this report, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables, are on file with the USGS. Information on the availability of the unpublished information or on the published statistical analyses is available from USGS personnel involved with data collection at the Site.

Appendix 2: Glossary

Terms related to surface-water flow, water-quality, and other hydrologic data are defined below. Except where noted, definitions are from Ugland and others (1995).

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 ft and is equal to 43,560 ft³ or about 326,000 gal.

Cfs-day is the volume of water represented by flow of 1 ft³/s for 24 hours. It is equivalent to 86,400 ft³, about 1.9835 acre-ft, or about 646,000 gal.

Control designates a feature downstream from the gaging station that determines the stage-discharge relation at that gaging station. This feature might be a natural constriction of the channel, an artificial structure such as a weir, or a uniform cross section over a long reach of the channel.

Control structure is a structure on a stream or canal that is used to regulate the flow or stage of the stream.

Cubic foot per second (ft³/s) is the rate of discharge representing a volume of 1 ft³ passing a given point during 1 second and is equivalent to 7.48 gal/s or 448.8 gal/min.

Discharge is the volume of water (or more broadly, volume of water plus suspended sediment) that passes a given point within a given period of time.

Instantaneous discharge is the discharge at a particular instant of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific time.

Dissolved refers to that material in a representative water sample that passes through a 0.45- μ m membrane filter. This definition is a convenient operational definition used by Federal agencies that collect water data. Determinations of dissolved constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water is determined either analytically by the residue-on-evaporation method or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to indicate the change.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream upstream from the specified point. Drainage areas in this report include all closed basins, or noncontributing areas, in the area unless otherwise noted.

Drainage basin is a part of the surface of the Earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water and all tributary surface streams and bodies of impounded surface water.

Gage height is the water-surface elevation referred to some arbitrary gage datum. Gage height often is used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by hydrologic unit maps of the State of Colorado (U.S. Geological Survey, 1976); each hydrologic unit is identified by an eight-digit number.

Micrograms per liter (μ g/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One-thousand micrograms per liter is equivalent to 1 mg/L.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of dry sediment per liter of water-sediment mixture.

Partial-record station is a particular site where limited flow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of sediment in streams are affected by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bedload (tons) is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it.

Bedload discharge (tons/day) is the quantity of bedload measured by dry weight that moves past a section as bedload in a given time.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point about 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (milligrams per liter).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during 24 hours.

Suspended-sediment discharge (tons/d) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (milligrams per liter) times discharge (cubic feet per second) times 0.0027.

Suspended-sediment load (tons) is a general term that refers to material in suspension. It is not synonymous with discharge or concentration.

Suspended-sediment sand break is the percent by weight of a suspended-sediment sample that is greater than or equal to 0.0625 mm in diameter (sand). The percent of the sample remaining is less than 0.0625 mm in diameter (silt/clay). (Daniel J. Gooding, U.S. Geological Survey, Cascades Volcano Observatory Sediment Laboratory, written commun., 1995)

Total-sediment discharge (tons/d) is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry mass or volume, that passes a section during a given time.

Total-sediment load, or total load, is a term that refers to the total mass of sediment (bedload plus suspended-sediment load) in transport. It is not synonymous with total-sediment discharge.

7-day 10-year low flow (7 Q10) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Empirical analysis of the relation between dissolved-solids concentration (in milligrams per liter) and specific conductance (in microsiemens per centimeter at 25°C) indicates that the magnitude of dissolved-solids concentration commonly is between 55 and 75 percent of the magnitude of specific conductance (Hem, 1985, p. 67). This relation is not constant from stream to stream, and it can vary in the same source with changes in the composition of the water.

Stage is a general term for the height of the water surface of a stream or lake above an established datum plane. Stage often is used interchangeably with the term "gage height" (Rantz and others, 1982).

Stage-discharge relation is the relation between gage height (stage) and the volume of water, per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term

“streamflow” is more general than “runoff” because streamflow might be applied to discharge whether or not it is affected by diversion or regulation.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water/sediment mixture. It is associated with the material retained on a 0.45- μ m filter.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-ft of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is the quantity of a substance in solution or suspension that passes a stream section during 24 hours.

Total is the total amount of a given constituent in a representative water/suspended-sediment sample, regardless of the physical or chemical form of the constituent. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in the dissolved and in suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, and of the analytical method used, is needed to judge when the results can be reported as total. (The word “total” does double duty here, indicating that the sample consists of a water/suspended-sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross section per unit of time. This term needs to be qualified, such as total sediment discharge, total chloride discharge, and so on.

Weighted average indicates the discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.