SELECTED HYDROLOGIC DATA FOR FOUNTAIN CREEK AND MONUMENT CREEK BASINS, EAST-CENTRAL COLORADO

By Gerhard Kuhn and Roderick F. Ortiz

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CONVERSION FACTORS

Inch-pound units in this report may be converted to metric (International System) units by using the following conversion factors:

Multiply inch-pound unit	*By*	*To obtain metric unit*
cubic foot per second	0.028317	cubic meter per second
foot	0.3048	meter
foot per second	0.3048	meter per second
mile	1.609	kilometer
mile per hour	1.609	kilometer per hour
square foot	0.09290	square meter

To convert degree Celsius (°C) to degree Fahrenheit (°F) use the following formula:

$$°F = 9/5\ (°C) + 32.$$

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.

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ABSTRACT

Selected hydrologic data obtained during 1986, 1987, and 1988 by the U.S. Geological Survey for the Fountain Creek and Monument Creek basins, east-central Colorado, are presented in this report. The data were obtained as part of a study to determine the present and projected effects of wastewater discharges on the two Creeks. The data, which are available for 129 surface-water sites, include: (1) About 1,100 water-quality analyses, (2) about 420 measurements of discharge, (3) characteristics of about 50 dye clouds associated with measurements of traveltime and reaeration, and (4) about 360 measurements of channel geometry.

INTRODUCTION

Fountain Creek and Monument Creek receive wastewater discharges from numerous communities and developments. Wastewater discharges to the Creeks are expected to increase because of future population growth in the area. These increased discharges have caused concern that: (1) State stream water-quality standards might be exceeded, and (2) State stream classifications for cold-water aquatic life might not be sustainable for Fountain and Monument Creeks. As a result of these concerns, the U.S. Geological Survey began a study in 1986, in cooperation with the Pikes Peak Area Council of Governments, to determine the present and projected effects of wastewater discharges on water quality in Fountain and Monument Creeks (fig. 1). The primary objective of the study was to develop a method by which wastewater-management alternatives for Fountain and Monument Creeks could be simulated by using a one-dimensional stream water-quality model. Selected hydrologic data for use in calibration and verification of the model were obtained during 1986, 1987, and 1988.

Purpose and Scope

Selected hydrologic data that were obtained for this study for Fountain and Monument Creeks, tributary streams, and wastewater-treatment facilities currently (1988) discharging into Fountain Creek or Monument Creek are presented in this report. Several stream reaches (fig. 1) were established for study purposes. The upstream and middle reaches of Fountain Creek and Monument Creek downstream from Monument were studied during warm-water conditions; whereas, the middle and downstream reaches of Fountain Creek were studied during cold-water conditions.

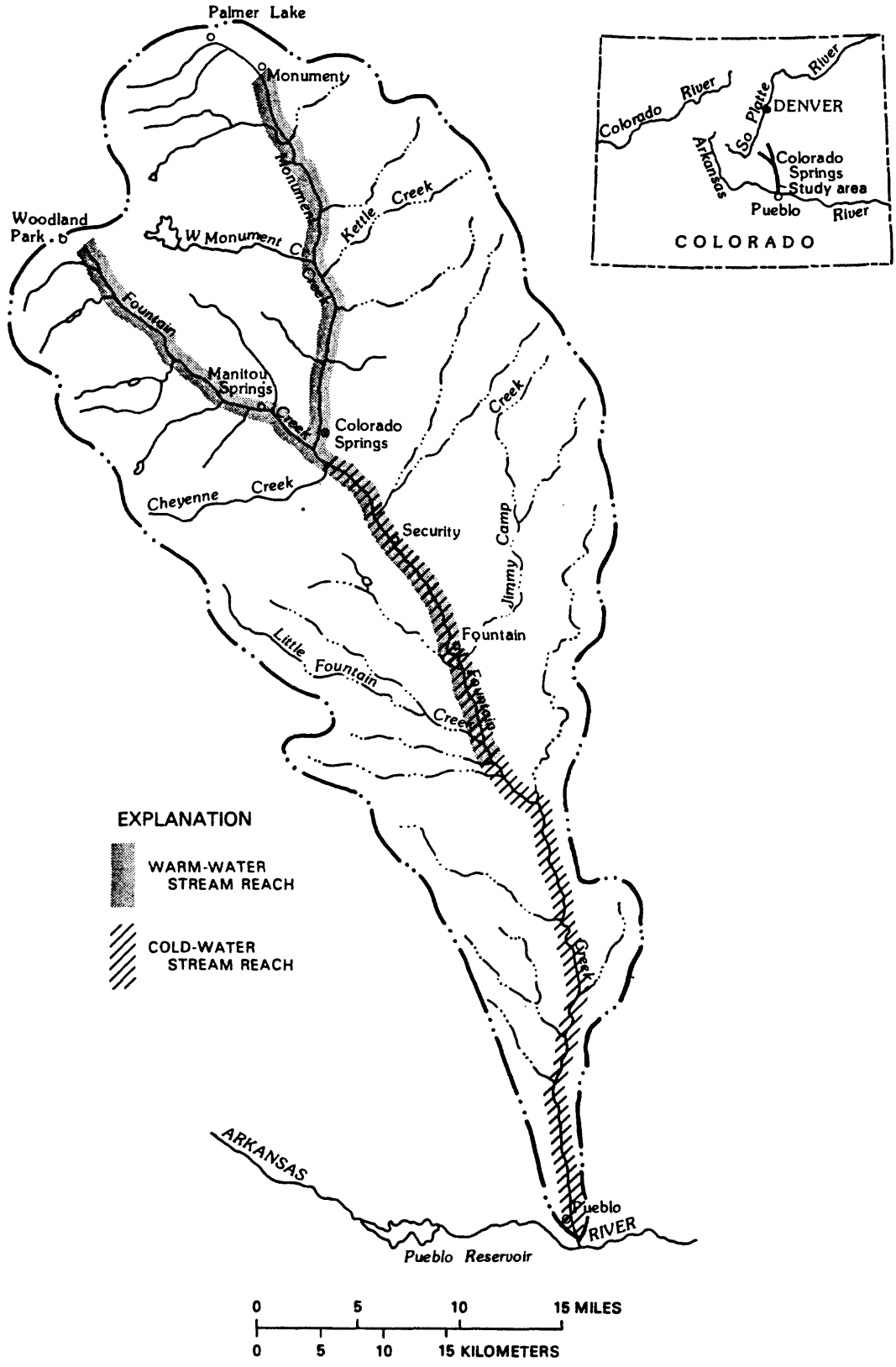


Figure 1.--Location of study area.

Acknowledgments

Appreciation is extended to the many landowners who allowed access to sampling sites on Fountain Creek, Monument Creek, and tributary streams. Access to sampling sites allowed by the City of Colorado Springs at the Colorado Springs Wastewater Treatment Facility, at Pinello Ranch, and at Hanna Ranch, as well as access allowed by the towns of Monument, Woodland Park, Security, Widefield, and Fountain at their wastewater-treatment facilities also is acknowledged. Appreciation also is extended to the U.S. Air Force Academy for allowing access to sampling sites located on that installation. Special thanks is extended to Kelly Stone, Mary Veatch, and other personnel at the Colorado Springs Wastewater Treatment Facility Laboratory for doing the 5-day carbonaceous biochemical analyses for the hundreds of water samples obtained for the study and for allowing use of the laboratory as a central collection and processing point for the samples. Finally, the assistance of Frank Kipple and Craig Lis, Colorado Division of Water Resources, is acknowledged for data collection.

HYDROLOGIC DATA SITES

Hydrologic data sites established for this study are listed in table 1. The sites are listed in a downstream order beginning with sites on Monument Creek and followed by sites on Fountain Creek. The site numbers (table 1) are reported in river miles upstream from the mouth of either creek preceded by one or two letters that designate whether the site is on Fountain Creek (F), on a tributary to Fountain Creek (FT), on Monument Creek (M), or on a tributary to Monument Creek (MT). Because of access limitations, some tributary streams were not sampled at the mouth even though the site number represents the river mile at the mouth of that tributary. However, the U.S. Geological Survey 15-digit station number (table 1), which is the latitude and longitude of the site, represents the actual sampling location. Locations of the hydrologic data sites are shown in figure 2. Hydrologic data are available for 129 sites; an additional 10 sites (table 1) were dye- or gas-injection sites only.

DESCRIPTION OF HYDROLOGIC DATA

The hydrologic data, which consist of onsite and laboratory water-quality analyses, and discharge, channel-geometry, traveltime, and reaeration measurements, are listed in tables 2 through 8 in the "Hydrologic Data" section of this report. The data are listed in downstream order and are keyed to the hydrologic data site numbers listed in table 1 and shown in figure 2.

Water-quality data (table 2) are from four 24-hour sampling periods; two sets of analyses, July 1986 and July 1987, are for the warm-water stream reach, and two sets of analyses, December 1986 and February 1987, are for the cold-water stream reach. The data for each sampling period are grouped together for each site (table 2). Discharge and channel-geometry data obtained during the 24-hour sampling periods are listed in tables 3 and 4; no channel-geometry data were obtained during the July 1986 sampling period.

Traveltime measurements were made during July and October 1986, April, August, September, and October 1987, and May 1988; reaeration measurements were made in conjunction with the traveltime measurements during October 1986 and April 1987. Dye-cloud characteristics of these measurements are listed in table 5; peak gas and dye concentrations for the reaeration measurements are listed in table 6. Discharge and channel-geometry data obtained during the traveltime and reaeration measurements are listed in tables 7 and 8.

SELECTED REFERENCES

Hubbard, E.F., Kilpatrick, F.A., Martens, L.A., and Wilson, J.F., Jr., 1982, Measurement of time of travel and dispersion in streams by dye tracing: U.S. Geological Survey Techniques of Water-Resources Investigations, bk. 3, chap. A9, 44 p.

Kilpatrick, F.A., Rathbun, R.E., Yotsukura, Nobuhiro, Parker, G.W., and DeLong, L.L., 1987, Determination of stream reaeration coefficients by use of tracers: U.S. Geological Survey Open-File Report 87-245, 84 p.

Fishman, M.J., and Friedman, L.C., eds., 1985, Methods for determination of inorganic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water-Resources Investigations, bk. 5, chap. A1, 709 p.

Table 1.--*Hydrologic data sites on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*

[Site numbers are reported as river miles upstream from the mouth; M, site is on Monument Creek; MT, site is on a tributary to Monument Creek; F, site is on Fountain Creek; FT, site is on a tributary to Fountain Creek. Types of hydrologic data are: D, discharge; G, channel geometry; I, dye- or gas-injection site only; Q, water quality; R, reaeration; T, traveltime; WWTF, wastewater-treatment facility; dashes indicate station number not established]

Hydrologic data site number (fig. 2)	U.S. Geological Survey station number	Elevation (feet)	Types of hydrologic data available for site	Site name
M23.68	390414104522601	6,822	D,G,Q	Monument Creek above Palmer Lake-Monument WWTF outfall near Monument
MT23.67	390413104522601	6,822	Q,T	Palmer Lake-Monument WWTF outfall near Monument
M22.65	--	6,782	D,G,T	Monument Creek above Teachout Creek near Monument
MT22.43	390357104513201	6,828	Q	Unnamed tributary below Teachout Creek near Monument
M22.02	390324104514501	6,761	D,G,Q,T	Monument Creek at Baptist Road near Monument
M21.22	390301104520701	6,720	Q	Monument Creek above Beaver Creek below Monument
MT21.21	390300104520701	6,720	D,Q	Beaver Creek at the mouth near Monument
M20.39	390251104512501	6,680	D,G,Q,T	Monument Creek below Beaver Creek near Monument
MT19.76	390249104505101	6,708	D,Q	Jackson Creek at the mouth near U.S. Air Force Academy
MT19.17	390212104505401	6,640	D,Q	Unnamed tributary below Jackson Creek at U.S. Air Force Academy
M18.56	07103780	6,630	D,G,Q,T	Monument Creek above Northgate Boulevard at U.S. Air Force Academy
MT18.37	390150104503801	6,613	D,Q	Unnamed tributary above Smith Creek at U.S. Air Force Academy
M17.46	390115104502401	6,580	D,G,Q,R,T	Monument Creek above Smith Creek at U.S. Air Force Academy
MT17.45	390115104502301	6,584	D,Q	Smith Creek at the mouth at U.S. Air Force Academy
M17.21	--	6,570	D,G,R,T	Monument Creek above Deadmans Creek at U.S. Air Force Academy
MT17.16	390059104502501	6,564	D,Q	Deadmans Creek at the mouth at U.S. Air Force Academy
M16.41	390036104500301	6,531	D,G,T	Monument Creek below Smith Creek at U.S. Air Force Academy
MT14.89	390003104490401	6,475	D,Q	Black Squirrel Creek near the mouth at U.S. Air Force Academy
M13.44	385858104494301	6,430	D,G,Q,T	Monument Creek at U.S. Air Force Academy WWTF
M11.90	--	6,370	I	Monument Creek 1.54 miles below U.S. Air Force Academy WWTF
M11.43	385732104500301	6,345	D,G,Q,T	Monument Creek above West Monument Creek at U.S. Air Force Academy
MT11.42	385730104500301	6,342	D,Q	West Monument Creek at the mouth at U.S. Air Force Academy
MT10.52	385708104492901	6,376	D,Q	Kettle Creek near the mouth near Colorado Springs
M9.91	--	6,376	D,G,R,T	Monument Creek below Kettle Creek near Colorado Springs
MT9.06	385618104484401	6,298	D,Q	Pine Creek near the mouth near Colorado Springs
M8.63	--	6,270	D,G,R,T	Monument Creek below Pine Creek above Colorado Springs
MT8.18	07103990	6,265	D,Q	Cottonwood Creek at the mouth at Pikeview
M7.34	07104000	6,203	D,G,Q,T	Monument Creek at Pikeview
M6.13	--	6,170	D,G,T	Monument Creek at Monument Creek pipeline diversion at Colorado Springs
MT4.95	385320104492401	6,116	D,Q	Templeton Gap floodway at the mouth at Colorado Springs
M4.94	--	6,116	D,G,T	Monument Creek below Templeton Gap floodway at Colorado Springs
MT4.88	385321104493301	6,114	D,Q	Douglas Creek at the mouth at Colorado Springs
MT4.36	385257104495001	6,120	D,Q	Unnamed tributary below Douglas Creek at Colorado Springs
M3.69	385234104494901	6,076	D,G,Q,T	Monument Creek at Fillmore Street at Colorado Springs
M3.48	--	6,070	D,G,T	Monument Creek below Fillmore Street at Colorado Springs

Table 1.--*Hydrologic data sites on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (fig. 2)	U.S. Geological Survey station number	Elevation (feet)	Types of hydrologic data available for site	Site name
M1.44	--	5,990	G,T	Monument Creek at Cache la Poudre Street at Colorado Springs
M0.00	384943104495801	5,943	D,G,Q,T	Monument Creek at the mouth at Colorado Springs
FT68.10	385829105022901	8,152	D,Q	Woodland Park WWTF outfall near Woodland Park
FT68.09	385829105022801	8,152	D,Q	Woodland Acres WWTF outfall near Woodland Park
F67.76	385813105022201	8,118	D,G,Q	Fountain Creek below Woodland Park WWTF outfall near Woodland Park
FT67.75	385812105022301	8,118	D,Q	Unnamed tributary below Woodland Park WWTF outfall near Woodland Park
F67.28	385759105020201	8,013	D,G,Q	Fountain Creek near Crystola
F66.52	385716105014301	7,911	D,G,Q	Fountain Creek above Crystola Creek at Crystola
FT66.51	385715105014401	7,911	D,Q	Crystola Creek at the mouth at Crystola
FT66.13	385659105013201	7,880	D,Q	Unnamed tributary below Crystola Creek near Crystola
F66.00	--	7,870	I	Fountain Creek below Talcott Gulch near Crystola
F65.00	--	7,770	D,T	Fountain Creek 0.5 miles above Catamount Creek at Green Mountain Falls
F64.58	385556105004201	7,683	D,G,Q,R,T	Fountain Creek above Catamount Creek at Green Mountain Falls
FT64.57	385600105004501	7,683	D,Q	Catamount Creek at the mouth at Green Mountain Falls
FT64.48	385556105004001	7,677	D,Q	Crystal Creek at the mouth at Green Mountain Falls
F63.98	--	7,640	D,G,R,T	Fountain Creek below Crystal Creek at Green Mountain Falls
F63.38	--	7,580	D,G,T	Fountain Creek below Lofland Gulch at Chipita Park
F62.98	--	7,550	D,T	Fountain Creek below Sand Gulch at Chipita Park
F62.87	--	7,548	G,T	Fountain Creek above Wellington Gulch at Chipita Park
F60.74	385347104581601	7,362	D,G,Q,T	Fountain Creek above Cascade Creek at Cascade
FT60.73	385346104581601	7,362	D,Q	Cascade Creek at the mouth at Cascade
FT59.90	385318104574301	7,214	D,Q	French Creek at the mouth near Cascade
F59.50	--	7,160	D,T	Fountain Creek 0.4 miles below French Creek near Cascade
F59.30	--	7,120	D,R,T	Fountain Creek 0.6 miles below French Creek near Cascade
F59.15	--	7,080	G,R,T	Fountain Creek 0.75 miles below French Creek near Cascade
F58.90	--	7,020	I	Fountain Creek 1.0 miles below French Creek near Cascade
F58.00	--	6,840	D,T	Fountain Creek above Waldo Canyon near Manitou Springs
F56.90	385205104552501	6,428	D,G,Q,T	Fountain Creek above Manitou Springs
FT56.28	385130104553101	6,369	D,Q	Ruxton Creek near the mouth at Manitou Springs
F55.85	--	6,280	D,T	Fountain Creek below Williams Canyon at Manitou Springs
F55.36	--	6,240	G	Fountain Creek at Mayfair Street at Manitou Springs
F55.00	--	6,204	G,R,T	Fountain Creek above Sutherland Creek at Manitou Springs
FT54.98	385130104534601	6,204	D,Q	Sutherland Creek at the mouth at Manitou Springs
F54.61	--	6,180	D,G,R,T	Fountain Creek below Sutherland Creek at Manitou Springs
F53.84	07103700	6,110	D,G,Q,R,T	Fountain Creek near Colorado Springs

Table 1.--*Hydrologic data sites on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (fig. 2)	U.S. Geological Survey station number	Elevation (feet)	Types of hydrologic data available for site	Site name
F53.47	--	6,100	D,G,T	Fountain Creek above Camp Creek at Colorado Springs
FT53.39	385122104520901	6,125	D,Q	Camp Creek near mouth at Colorado Springs
F52.31	--	6,030	D,G,T	Fountain Creek at 21st Street bridge at Colorado Springs
F50.61	384940104495901	5,943	D,G,Q,T	Fountain Creek above Monument Creek at Colorado Springs
FT50.17	384922104502301	5,982	D,Q	Bear Creek near the mouth at Colorado Springs
F49.34	07105500	5,900	D,G,Q,T	Fountain Creek at Colorado Springs
FT49.33	384859104491901	5,897	D,Q	Cheyenne Creek at the mouth at Colorado Springs
FT49.04	384905104485901	5,901	D,Q	Shooks Run near the mouth at Colorado Springs
F48.68	--	5,877	D,T	Fountain Creek above Colorado Springs WWTF outfall at Colorado Springs
FT48.67	384848104483801	5,877	D,Q	Colorado Springs WWTF outfall at Colorado Springs
FT48.66	384848104483701	5,877	D,Q	Fountain Mutual canal at diversion at Colorado Springs
F48.60	--	5,870	I	Fountain Creek below Fountain Mutual canal diversion at Colorado Springs
FT48.46	384848104483901	5,860	D,Q	Fountain Mutual canal sluice at Colorado Springs
FT47.74	384815104475501	5,860	D,Q	Spring Run at mouth at Colorado Springs
F47.61	384814104474701	5,839	D,G,Q	Fountain Creek above Spring Creek at Colorado Springs
FT47.60	384813104474601	5,839	D,Q	Spring Creek at the mouth at Colorado Springs
F46.95	--	5,818	D,G,R,T	Fountain Creek above Garden Valley WWTf outfall at Colorado Springs
FT46.93	384750104470701	5,818	D,Q,T	Garden Valley WWTF outfall at Colorado Springs
FT46.50	384728104471201	5,818	D,Q	Unnamed tributary below Circle Drive at Colorado Springs
FT45.63	384652104464601	5,820	D,Q	Sand Creek near the mouth at Colorado Springs
F45.22	384636104464301	5,765	D,G,Q,R,T	Fountain Creek at Highway 85 near Colorado Springs
FT45.01	384631104463101	5,865	D,Q	Unnamed tributary at Highway 85 near Colorado Springs
F43.66	384538104453801	5,717	D,G,Q,R,T	Fountain Creek at Pinello ranch near Colorado Springs
FT43.23	384510104454001	5,724	D,Q	B ditch drain near the mouth near Colorado Springs
F40.98	384407104441201	5,641	D,G,Q	Fountain Creek above Security WWTF outfall near Security
FT40.97	384406104441201	5,641	D,Q	Security WWTF outfall near Security
F40.41	07105800	5,635	D,G,Q,T	Fountain Creek at Security
FT39.97	384324104433901	5,614	D,Q	Unnamed tributary near Widefield
F39.54	384309104432701	5,606	D,G,Q	Fountain Creek above Widefield WWTF outfall near Widefield
FT39.53	384307104432701	5.606	D,Q	Widefield WWTF outfall near Widefield
FT39.52	07105820	5,620	D,Q	Clover ditch drain near Widefield
F39.19	384249104431301	5,590	D,T	Fountain Creek above Chilcotte ditch diversion near Fountain
F39.09	--	5,587	Q,T	Fountain Creek below Chilcotte ditch diversion near Fountain
F38.70	--	5,575	I	Fountain Creek 0.1 mile above Chilcotte ditch sluice near Fountain
F38.60	--	5,570	G,R,T	Fountain Creek above Chilcotte ditch sluice near Fountain

Table 1.--*Hydrologic data sites on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (fig. 2)	U.S. Geological Survey station number	Elevation (feet)	Types of hydrologic data available for site	Site name
FT38.52	384222104425901	5,567	D,Q	Chilcotte ditch sluice near Fountain
F37.43	384137104423201	5,542	D,G,Q,R,T	Fountain Creek above Fountain
F36.80	--	5,530	I	Fountain Creek 1.1 mile above Highway 85 at Fountain
FT36.33	384048104424201	5,514	D,Q	Unnamed tributary at Fountain
F35.85	--	5,500	D,G,R,T	Fountain Creek above Highway 85 at Fountain
F35.70	--	5,495	D,T	Fountain Creek at Highway 85 at Fountain
FT35.20	384020104415301	5,497	D,Q	Jimmy Camp Creek at the mouth near Fountain
F34.88	--	5,480	D,G,R,T	Fountain Creek below Jimmy Camp Creek near Fountain
F34.27	383935104414501	5,465	D,G,Q	Fountain Creek above Fountain WWTF outfall near Fountain
FT34.26	383934104414501	5,465	D,Q	Fountain WWTF outfall near Fountain
F32.91	383846104410901	5,431	Q	Fountain Creek above Owen and Hall ditch diversion near Fountain
F32.00	--	5,420	I	Fountain Creek below Owen and Hall ditch diversion near Fountain
F31.38	07105905	5,400	D,G,Q,T	Fountain Creek above Little Fountain Creek near Fountain
FT30.32	383707104405701	5,377	D,Q	Little Fountain Creek near the mouth near Fountain
F29.47	07106000	5,342	D,G,Q,T	Fountain Creek near Fountain
F26.90	--	5,290	I	Fountain Creek 0.4 miles above Robinson ditch near Buttes
F25.25	383345104373601	5,239	D,G,Q,R,T	Fountain Creek above Williams Creek near Wigwam
FT25.15	383347104373401	5,239	D,Q	Williams Creek at the mouth near Wigwam
FT24.20	383236104373701	5,220	D,Q	Unnamed tributary near Wigwam
F24.00	--	5,215	G,R,T	Fountain Creek below Jackson and Burke ditch diversion near Wigwam
F23.00	--	5,190	D,G,R,T	Fountain Creek 1.0 mile below Jackson and Burke diversion near Wigwam
F20.85	383037104363701	5,136	D,G,Q,T	Fountain Creek above Totten ranch near Pinon
F16.90	--	5,048	I	Fountain Creek below Sutherland ditch near Pinon
F15.00	07106300	5,005	D,G,Q,R,T	Fountain Creek near Pinon
F14.00	--	4,980	D,G,R,T	Fountain Creek at Caulfield ditch near Pinon
F12.55	--	4,950	D,G,R,T	Fountain Creek above Steele Hollow near Bragdon
F10.90	382346104360201	4,902	D,G,Q,R,T	Fountain Creek above Greenview ditch near Bragdon
F8.00	--	4,830	I	Fountain Creek at Gnat Hollow near Pueblo
F6.95	382047104364001	4,794	D,G,Q,T	Fountain Creek at Belmont stables near Pueblo
F5.30	--	4,755	D,G	Fountain Creek 1.3 miles above Highway 47 near Pueblo
F4.50	--	4,745	D,G,R,T	Fountain Creek 0.5 miles above Highway 47 at Pueblo
F4.00	--	4,730	D,G,R,T	Fountain Creek at Highway 47 at Pueblo
F2.60	07106500	4,725	D,G,Q,R,T	Fountain Creek at Pueblo
F0.00	381520104352501	4,636	D,G,Q,R,T	Fountain Creek at the mouth at Pueblo

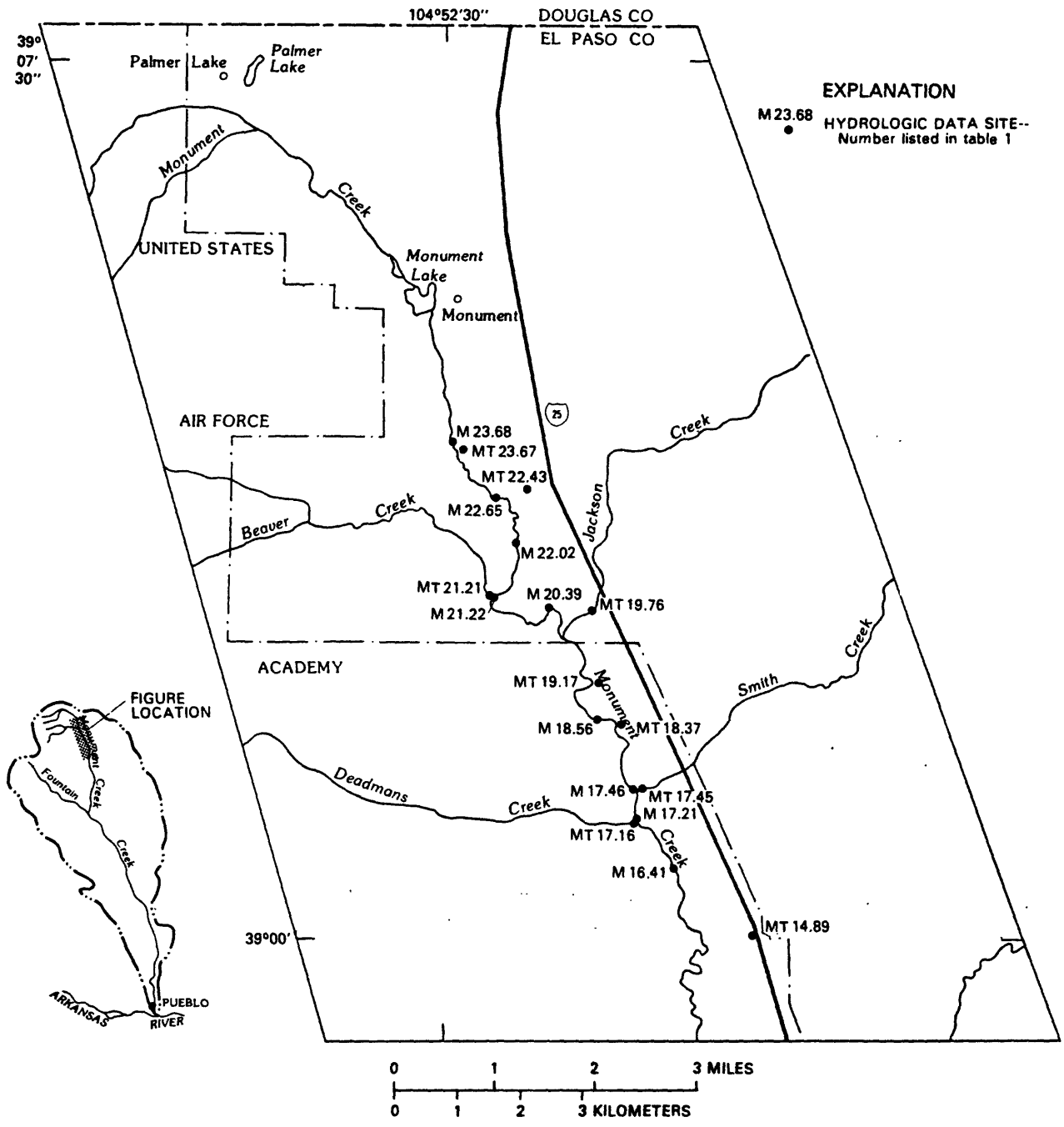
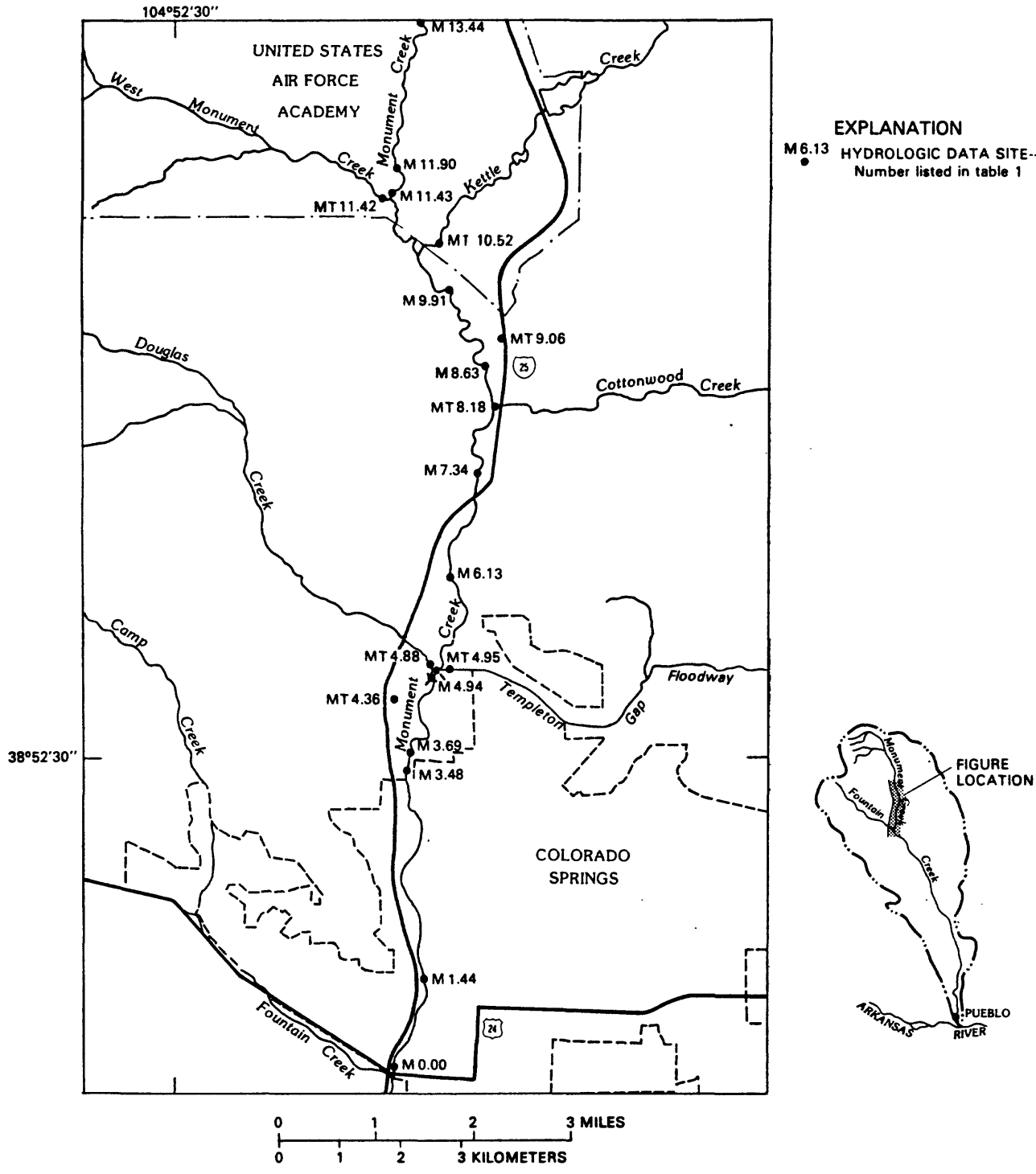


Figure 2.--Location of hydrologic data sites on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls.



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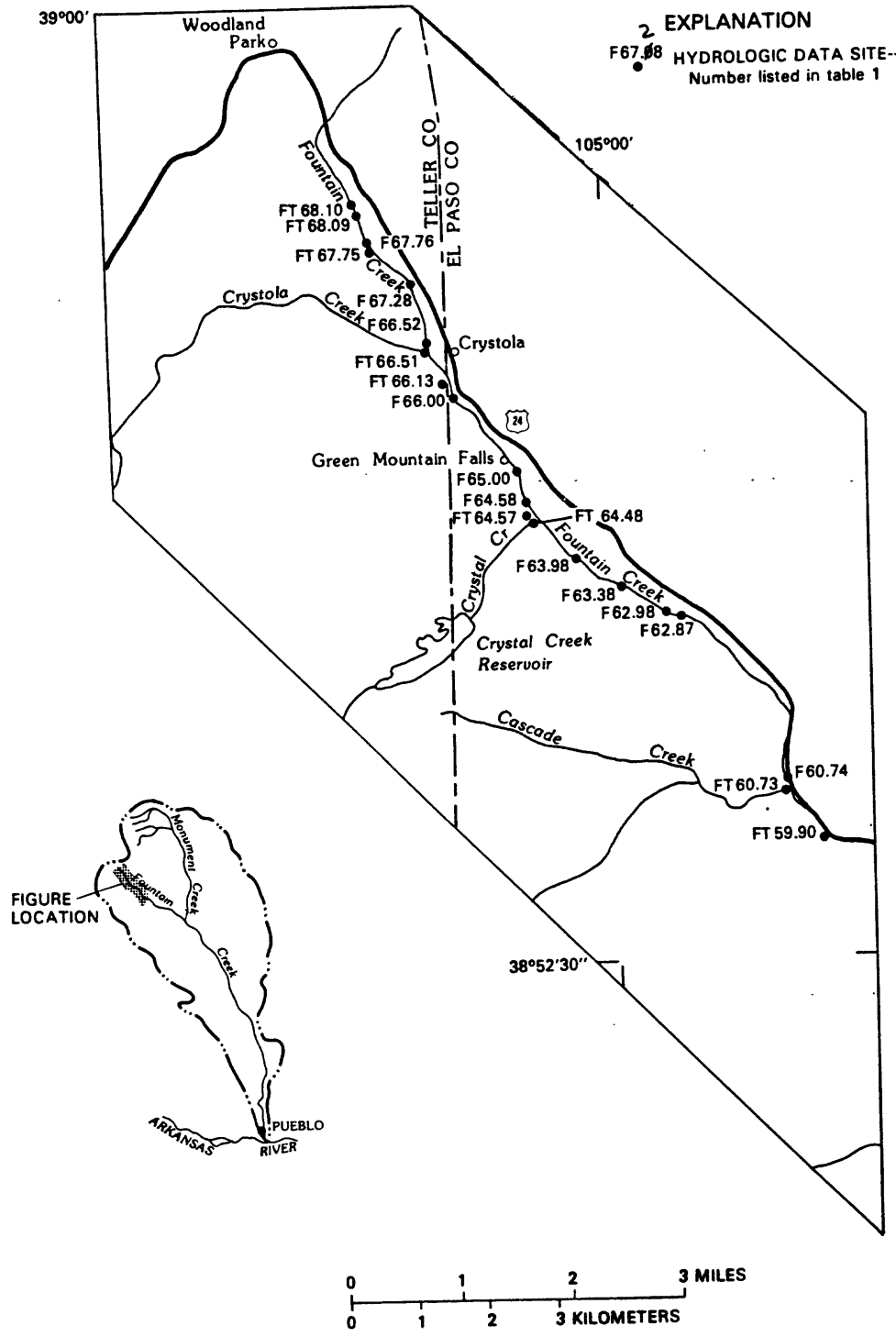

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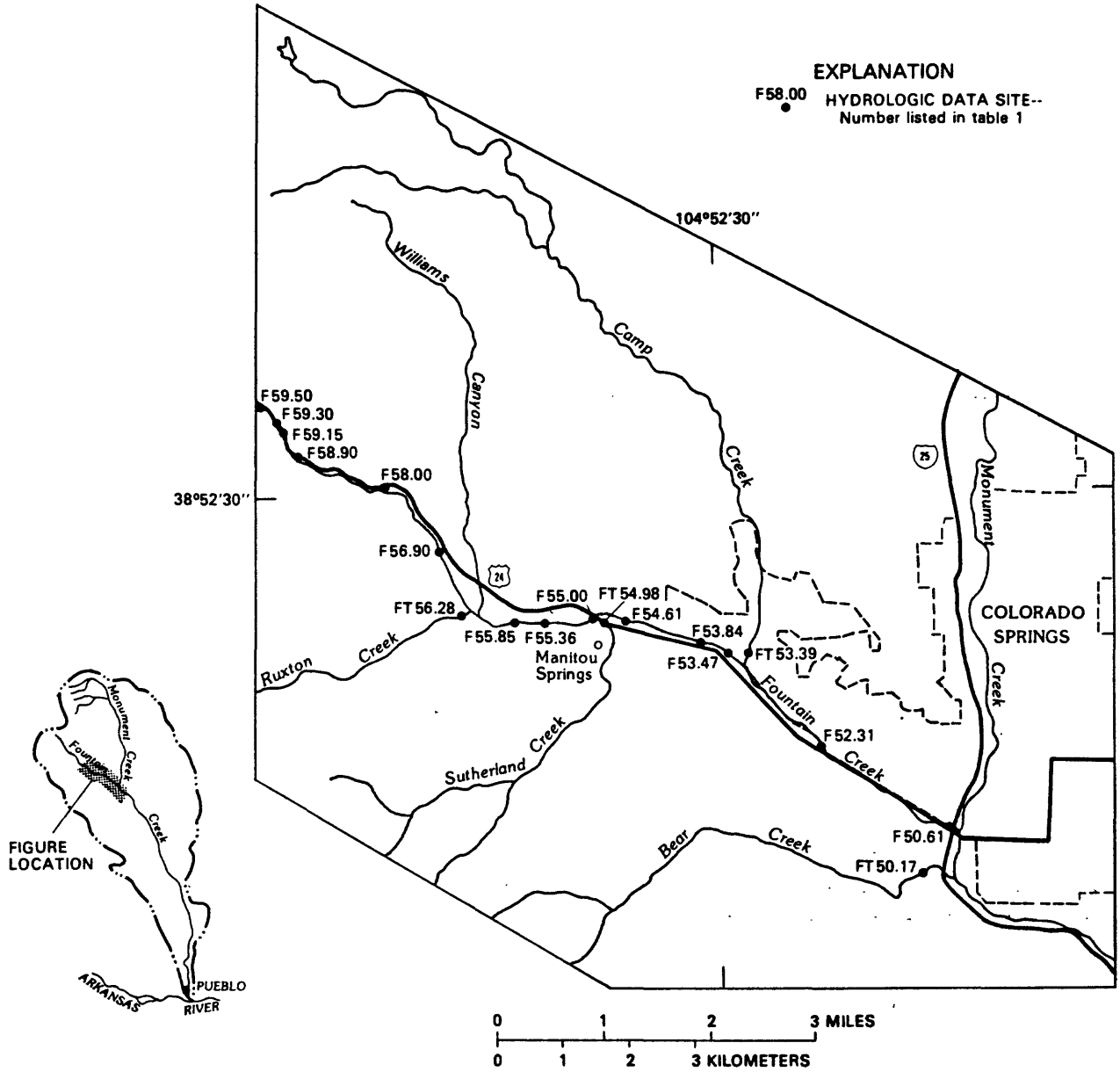

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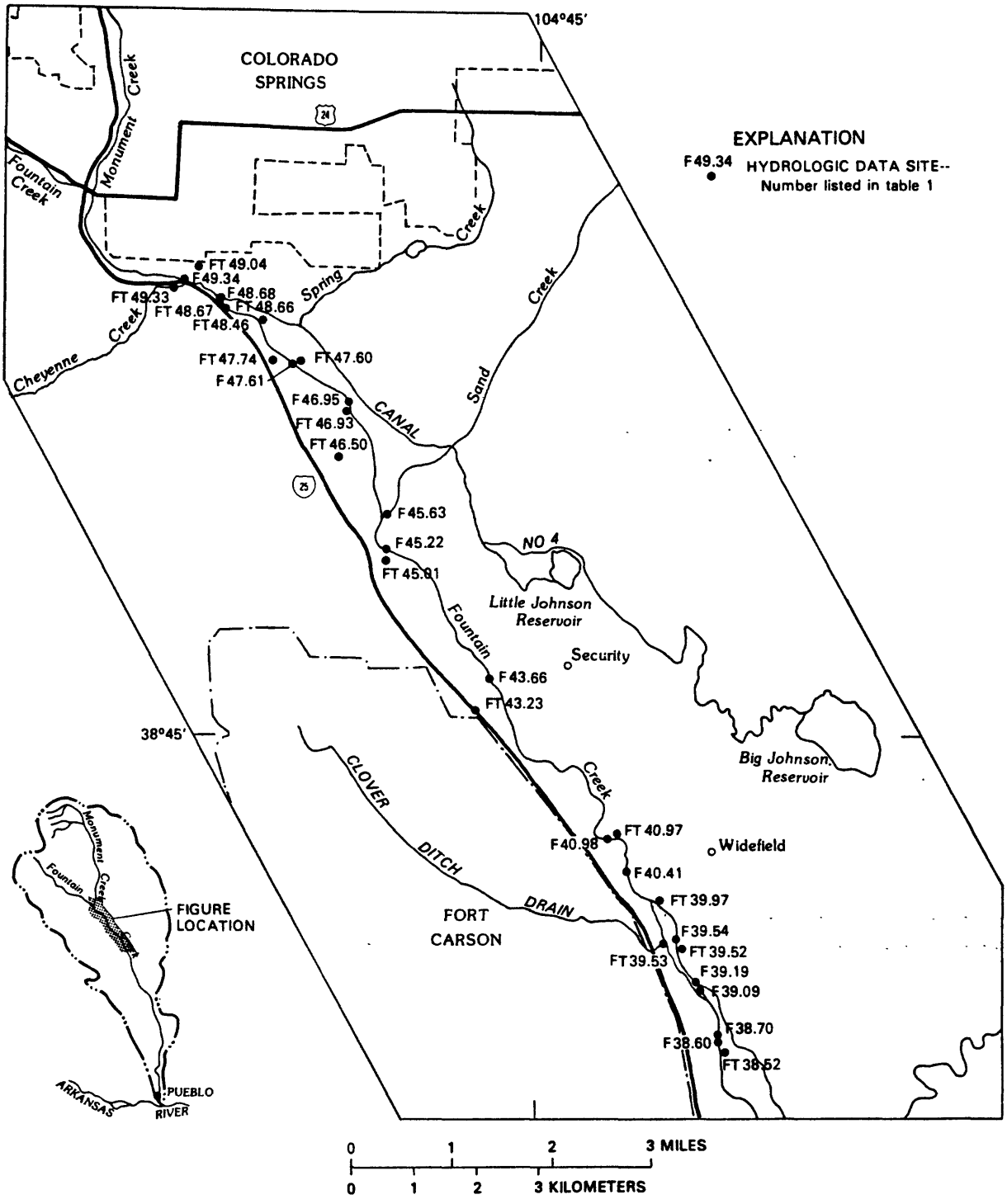

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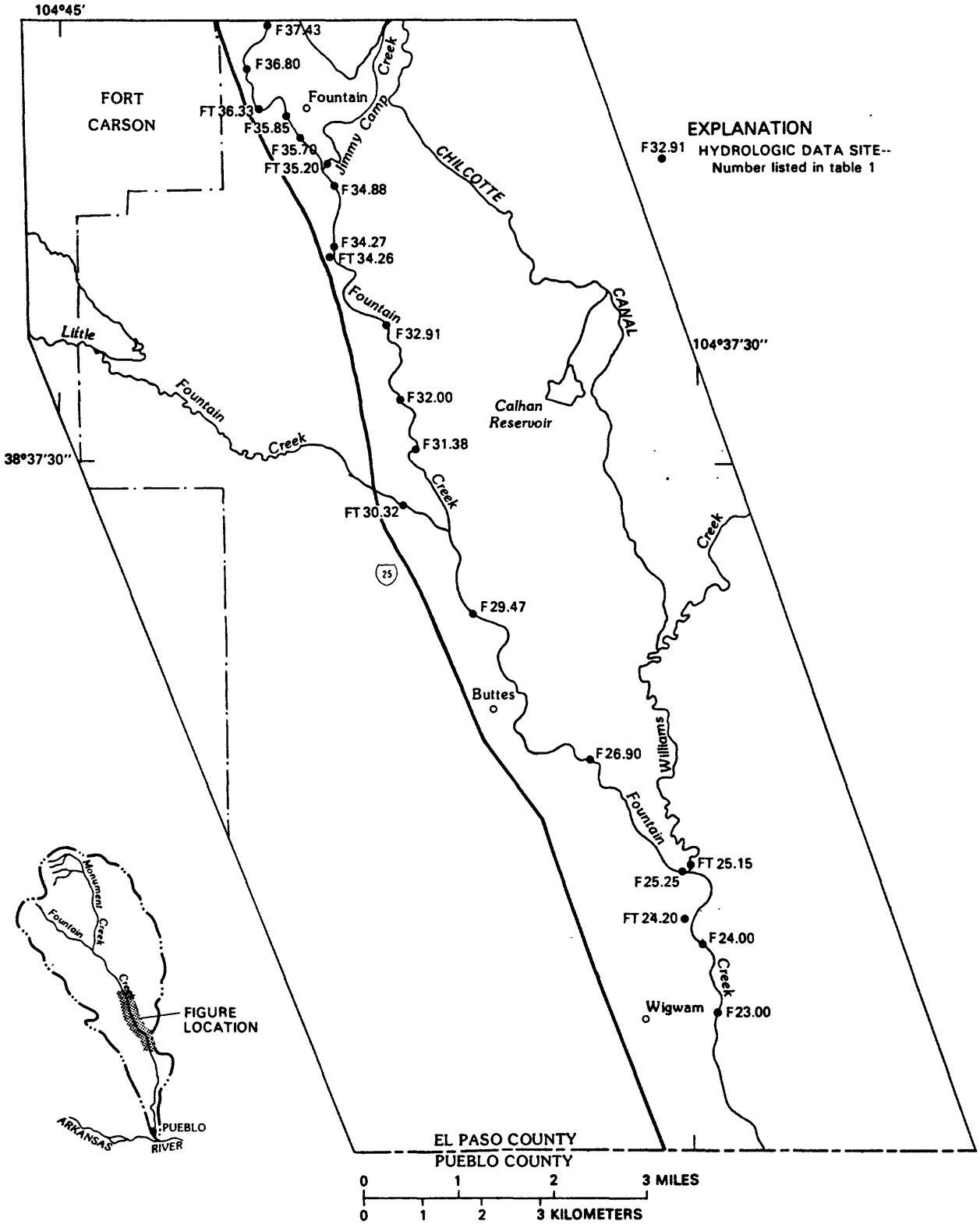

Figure 2.--Location of hydrologic data sites on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls--Continued.

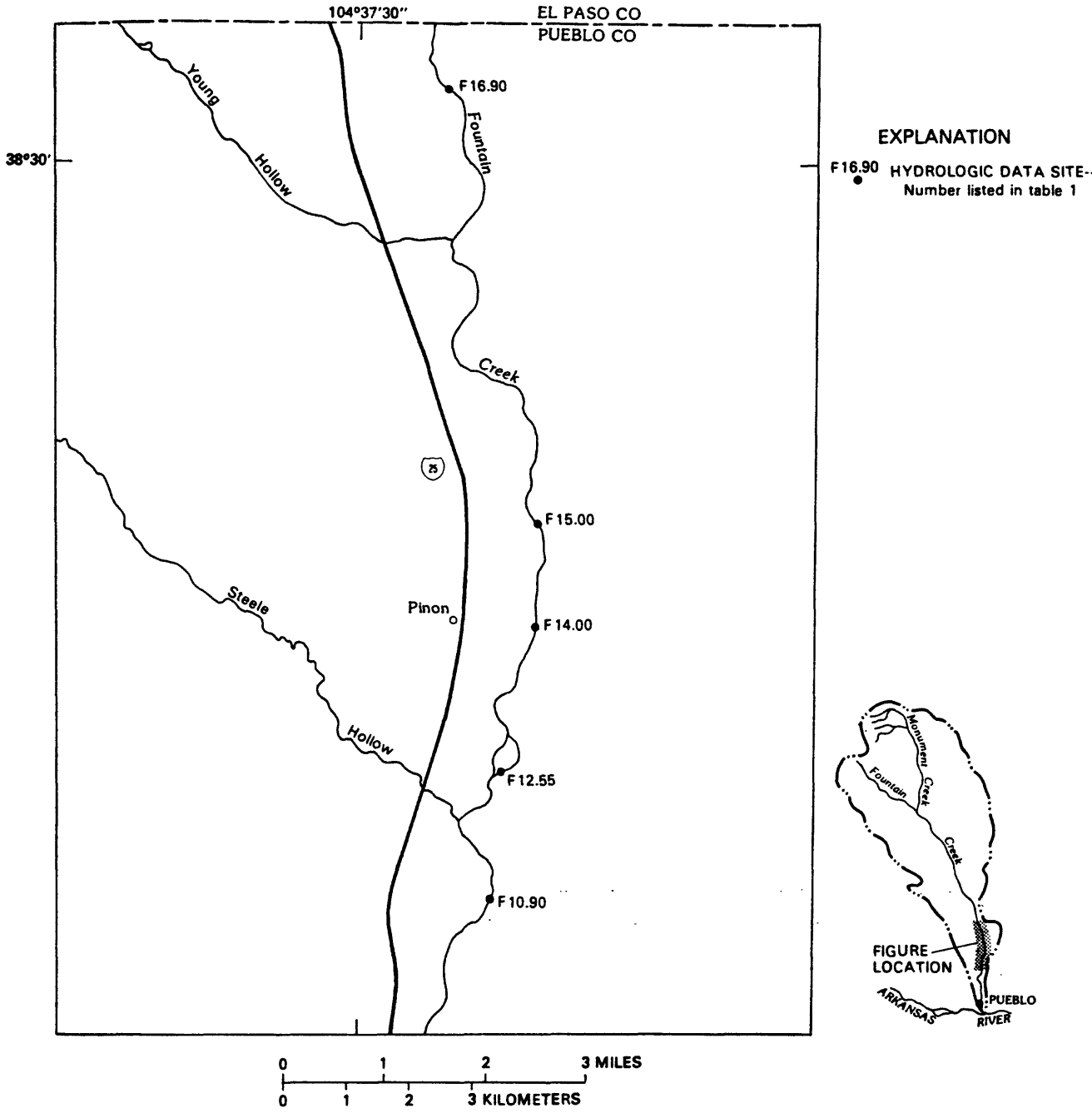

Figure 2.--Location of hydrologic data sites on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls--Continued.

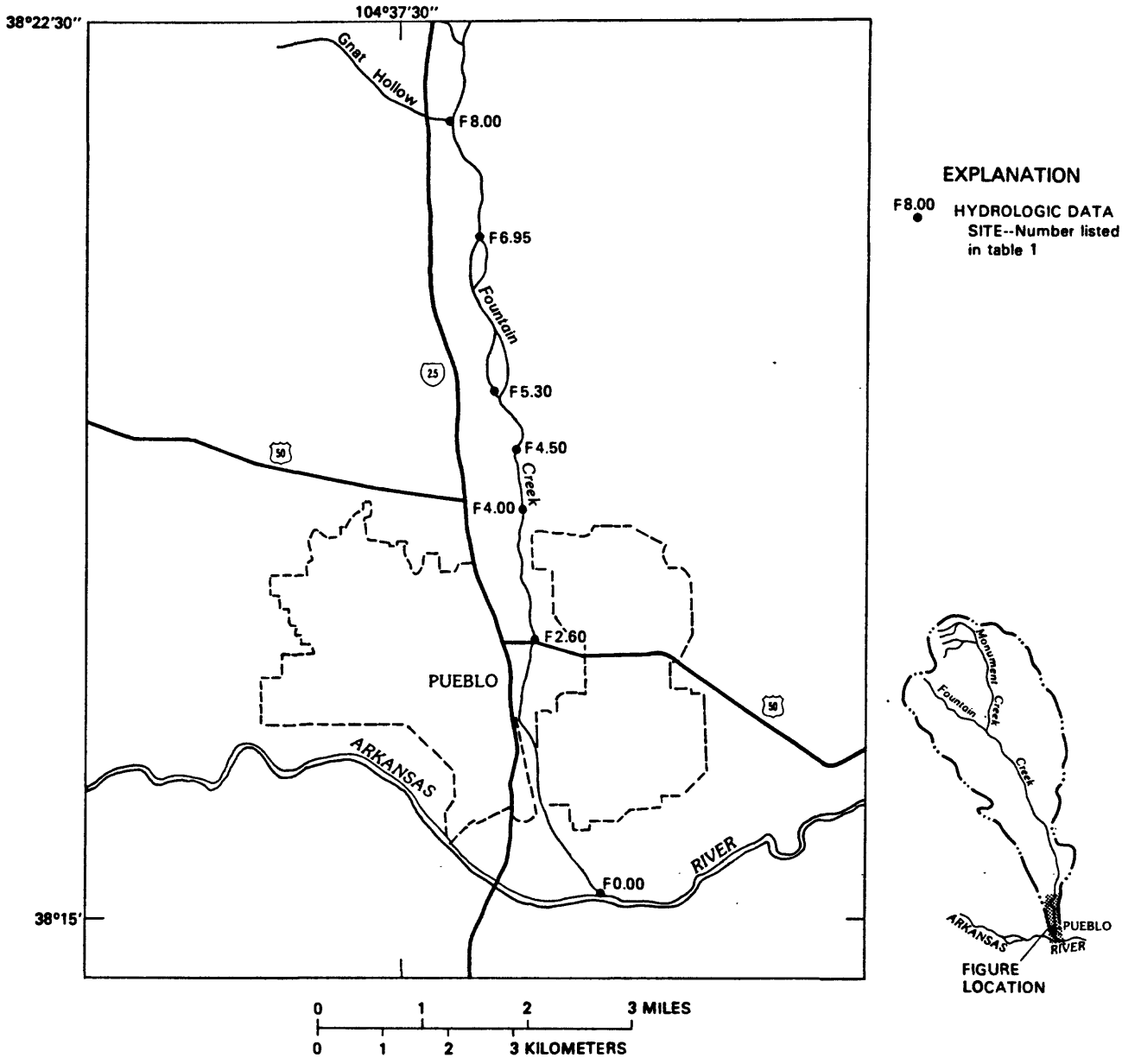

Figure 2.--Location of hydrologic data sites on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls--Continued.

HYDROLOGIC DATA

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*

[µS/cm, microsiemens per centimeter; °C, degrees Celsius; mg/L, milligrams per liter; <, less than; dashes indicate no data; >, greater than]

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
M23.68	07-15-86	0902	164	174	18.0	7.8	7.4	100	1.0
		0904	164	174	18.0	7.8	7.4	100	1.3
		1310	165	171	27.5	8.3	7.0	114	.5
		1312	165	171	27.5	8.3	7.0	114	<.1
		1710	168	173	26.5	8.5	6.7	108	.5
		2110	171	178	21.5	7.7	5.8	85	.6
	07-16-86	0120	169	--	19.0	7.6	6.1	85	>5.0
		0510	168	179	16.5	7.6	6.8	90	.7
	07-21-87	0855	144	163	17.0	8.2	8.0	105	.5
		1300	147	166	23.0	8.0	7.6	113	.5
		1305	147	166	23.0	8.0	7.6	113	.5
		1655	144	165	21.5	7.9	7.5	109	.6
		2125	142	170	16.0	7.9	7.0	91	.6
	07-22-87	0120	139	165	15.5	8.0	7.1	91	1.1
		0500	142	166	15.0	7.7	7.2	91	1.4
MT23.67	07-15-86	0914	470	465	20.0	7.1	5.5	78	24
		0915	470	465	20.0	7.1	5.5	78	30
		1315	472	463	21.5	7.2	6.3	92	27
		1317	472	462	21.5	7.2	6.3	92	26
		1715	474	461	21.0	7.2	5.8	84	30
		2120	479	473	20.0	7.0	3.9	55	21
	07-16-86	0110	433	465	20.0	7.1	4.4	62	.0
		0520	477	465	20.0	7.2	4.6	65	25
	07-21-87	0915	543	536	19.0	7.6	6.6	91	.0
		1320	542	526	20.5	7.4	7.6	108	15
		1705	540	539	21.0	7.6	7.3	105	11
		1710	540	541	21.0	7.6	7.3	105	11
		2135	540	541	21.0	7.8	6.7	97	13
	07-22-87	0125	540	531	20.5	7.8	6.6	95	18
		0505	541	531	20.0	7.8	6.2	88	16
		0510	541	532	20.0	7.8	6.2	88	16
MT22.43	07-15-86	1015	276	282	16.5	7.0	2.0	26	2.2
M22.02	07-15-86	0945	250	254	19.5	8.1	8.4	117	5.3
		1343	243	248	26.0	8.6	7.6	121	3.4
		1735	242	243	26.0	8.9	7.7	123	3.3
		2155	247	259	20.5	7.5	5.5	79	4.2
	07-16-86	0145	--	261	17.0	7.5	6.2	82	5.5
		0545	251	257	16.0	7.5	6.4	83	7.1
	07-21-87	1000	197	213	18.5	8.0	7.9	107	.0
		1015	197	217	18.5	8.0	7.9	107	2.9
		1400	195	204	25.0	7.6	7.8	121	4.4
		1800	193	206	22.5	7.5	7.3	108	5.0
		2210	189	215	17.0	7.7	6.2	82	4.8
	07-22-87	0155	187	210	15.5	7.7	6.5	83	7.7
		0550	187	211	15.0	7.5	6.9	87	5.2

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
M23.68	07-15-86	0902	0.53	0.17	0.70	0.02	0.08	0.10	0.80
		0904	.33	.17	.50	.02	.08	.10	.60
		1310	.38	.12	.50	.02	.08	.10	.60
		1312	.38	.12	.50	.02	.08	.10	.60
		1710	.58	.12	.70	.02	.08	.10	.80
		2110	.36	.14	.50	.02	.18	.20	.70
	07-16-86	0120	--	--	--	--	--	--	--
		0510	.43	.17	.60	.02	.08	.10	.70
	07-21-87	0855	.75	.05	.80	<.01	--	<.10	--
		1300	.24	.06	.30	<.01	--	<.10	--
		1305	.23	.07	.30	<.01	--	<.10	--
		1655	.73	.07	.80	<.01	--	<.10	--
		2125	.23	.07	.30	<.01	--	<.10	--
	07-22-87	0120	.81	.09	.90	<.01	--	<.10	--
		0500	.71	.09	.80	<.01	--	<.10	--
MT23.67	07-15-86	0914	--	.20	--	9.4	2.6	12	--
		0915	--	--	--	--	--	--	--
		1315	22	.26	22	9.5	1.5	11	33
		1317	22	.34	22	9.4	1.6	11	33
		1715	9.6	.36	10	9.1	1.9	11	21
		2120	--	.55	--	9.2	1.8	11	--
	07-16-86	0110	10	.68	11	9.0	2.0	11	22
		0520	9.4	.56	10	8.9	2.1	11	21
	07-21-87	0915	12	15	27	.39	.51	.90	28
		1320	12	18	30	.39	.21	.60	31
		1705	7.0	18	25	.08	.02	.10	25
		1710	3.0	18	21	.08	.02	.10	21
		2135	12	17	29	.40	.20	.60	30
	07-22-87	0125	10	15	25	.42	.18	.60	26
		0505	7.0	15	22	.39	.21	.60	23
		0510	4.0	15	19	.39	.21	.60	20
MT22.43	07-15-86	1015	1.3	.11	1.4	.01	--	<.10	--
M22.02	07-15-86	0945	2.3	.13	2.4	.76	1.6	2.4	4.8
		1343	1.9	.04	1.9	.56	1.6	2.2	4.1
		1735	1.9	.04	1.9	.62	1.5	2.1	4.0
		2155	1.8	.08	1.9	.59	1.6	2.2	4.1
	07-16-86	0145	2.2	.20	2.4	.76	1.5	2.3	4.7
		0545	1.8	.21	2.0	.72	1.6	2.3	4.3
	07-21-87	1000	1.0	1.4	2.4	.19	.61	.80	3.2
		1015	1.5	1.3	2.8	.19	.51	.70	3.5
		1400	.50	1.1	1.6	.26	.74	1.0	2.6
		1800	.90	1.1	2.0	.25	.65	.90	2.9
		2210	.80	1.3	2.1	.19	.51	.70	2.8
	07-22-87	0155	1.3	1.2	2.5	.18	.52	.70	3.2
		0550	.80	1.3	2.1	.17	.53	.70	2.8

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
M21.22	07-15-86	1110	247	248	24.0	8.8	7.8	119	3.4
MT21.21	07-15-86	1120	126	127	25.0	8.5	6.7	105	<.1
	07-21-87	1030	122	126	18.0	7.5	7.4	100	.3
		2210	125	129	15.5	7.5	6.3	81	1.4
M20.39	07-15-86	1005	203	209	21.0	8.5	7.5	107	2.5
		1400	200	203	29.0	8.7	6.5	109	2.9
		1751	198	203	27.0	9.1	6.5	105	3.2
		2210	208	216	19.0	7.7	6.1	85	2.8
	07-16-86	0205	207	217	17.0	7.8	6.8	77	3.0
		0605	207	217	15.0	7.8	7.0	89	3.2
	07-21-87	1030	190	210	19.5	8.3	8.2	113	.0
		1425	187	203	26.5	8.1	8.2	130	3.4
		1430	187	203	26.5	8.1	8.2	130	4.5
		1820	189	209	24.0	8.2	7.0	106	1.7
		2325	187	209	17.0	7.7	6.1	80	3.3
	07-22-87	0220	184	207	15.5	7.6	6.4	82	5.0
		0625	182	206	14.0	7.6	6.8	84	3.6
		0630	182	207	14.0	7.6	6.8	84	3.2
MT19.76	07-15-86	1200	403	394	23.0	8.2	7.4	111	.8
	07-21-87	1100	419	414	17.5	7.1	6.2	83	1.1
		2245	456	427	16.5	7.1	4.3	56	.4
MT19.17	07-15-86	1230	304	353	17.5	7.7	4.8	64	.9
	07-21-87	1125	386	382	17.5	7.3	6.4	85	<.1
M18.56	07-15-86	1030	210	217	20.5	8.2	8.0	113	4.2
		1423	205	209	29.0	8.6	6.9	115	2.0
		1925	207	212	24.0	8.9	5.9	90	2.8
		2240	213	220	20.5	7.7	5.8	83	3.0
	07-16-86	0230	--	224	17.0	7.6	6.4	85	2.9
		0630	214	223	15.0	7.7	7.1	90	1.3
	07-21-87	1100	200	217	20.0	8.4	8.2	114	3.3
		1500	193	209	26.5	8.3	7.9	125	2.9
		1850	195	212	23.5	8.4	6.9	104	2.6
		1855	195	213	23.5	8.4	6.9	104	2.8
		2300	200	227	18.0	7.7	6.3	85	2.6
	07-22-87	0250	189	215	15.0	7.5	6.7	85	3.4
		0655	186	211	14.0	7.7	7.3	90	2.3
MT18.37	07-15-86	1045	523	511	18.0	7.8	6.7	90	.9
		1940	516	502	18.5	7.8	6.4	88	<.1
	07-16-86	0245	--	523	14.5	7.9	7.3	91	1.4
M17.46	07-15-86	1110	231	229	21.0	8.2	7.8	112	2.2
		1442	220	223	27.5	8.6	6.8	110	2.5
		1820	218	222	26.5	9.0	6.2	99	2.0
		2300	232	237	20.5	7.5	5.9	84	3.3
	07-16-86	0320	231	237	17.0	7.5	6.6	87	3.0
		0655	230	237	15.5	7.6	7.0	89	3.0

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
M21.22	07-15-86	1110	1.9	0.04	1.9	0.54	1.8	2.3	4.2
MT21.21	07-15-86	1120	.26	.04	.30	.01	--	<.10	--
	07-21-87	1030	--	<.01	.20	<.01	--	<.10	--
		2210	--	<.01	.50	<.01	--	<.10	--
M20.39	07-15-86	1005	1.5	.03	1.5	.30	1.1	1.4	2.9
		1400	1.5	.03	1.5	.23	.87	1.1	2.6
		1751	1.3	.03	1.3	.18	.82	1.0	2.3
		2210	1.3	.02	1.3	.19	.91	1.1	2.4
	07-16-86	0205	1.4	.03	1.4	.22	.98	1.2	2.6
		0605	1.2	.05	1.3	.30	1.1	1.4	2.7
	07-21-87	1030	1.4	.77	2.2	.25	.85	1.1	3.3
		1425	.73	.27	1.0	.30	.90	1.2	2.2
		1430	.53	.27	.80	.30	.90	1.2	2.0
		1820	1.4	.32	1.7	.34	.96	1.3	3.0
		2325	1.1	.67	1.8	.27	.83	1.1	2.9
	07-22-87	0220	1.1	.73	1.8	.25	.85	1.1	2.9
		0625	.88	.72	1.6	.23	.77	1.0	2.6
		0630	.97	.73	1.7	.22	.78	1.0	2.7
MT19.76	07-15-86	1200	1.2	.05	1.2	.01	--	<.10	--
	07-21-87	1100	.78	.02	.80	<.01	--	<.10	--
		2245	.74	.06	.80	<.01	--	<.10	--
MT19.17	07-15-86	1230	.91	.19	1.1	.01	--	<.10	--
	07-21-87	1125	--	<.01	.60	<.01	--	<.10	--
M18.56	07-15-86	1030	.89	.01	.90	.15	.85	1.0	1.9
		1423	1.2	.04	1.2	.12	.68	.80	2.0
		1925	1.2	.04	1.2	.09	.51	.60	1.8
		2240	1.4	.04	1.4	.09	.51	.60	2.0
	07-16-86	0230	1.2	.05	1.2	.09	.71	.80	2.0
		0630	1.2	.05	1.2	.11	.79	.90	2.1
	07-21-87	1100	.47	.33	.80	.23	1.1	1.3	2.1
		1500	.96	.04	1.0	.22	1.1	1.3	2.3
		1850	.99	.01	1.0	.24	1.1	1.3	2.3
		1855	.99	.01	1.0	.24	1.1	1.3	2.3
		2300	1.6	.22	1.8	.27	1.0	1.3	3.1
	07-22-87	0250	1.1	.31	1.4	.24	.96	1.2	2.6
		0655	1.1	.35	1.4	.21	.99	1.2	2.6
MT18.37	07-15-86	1045	.67	.03	.70	.01	.19	.20	.90
		1940	1.1	.04	1.1	.01	--	<.10	--
	07-16-86	0245	.77	.03	.80	<.01	--	.20	1.0
M17.46	07-15-86	1110	.89	.01	.90	.11	.69	.80	1.7
		1442	1.3	.03	1.3	.09	.61	.70	2.0
		1820	.98	.02	1.0	.07	.43	.50	1.5
		2300	1.1	.02	1.1	.05	.45	.50	1.6
	07-16-86	0320	1.3	.03	1.3	.06	.54	.60	1.9
		0655	1.1	.02	1.1	.06	.64	.70	1.8

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
M17.46	07-21-87	1130	211	228	21.0	8.2	7.4	105	4.3
		1530	201	218	26.0	8.2	7.1	111	3.9
		1920	201	195	22.5	8.1	6.2	91	3.0
		2345	206	243	18.0	7.6	6.5	87	1.7
		2350	206	239	18.0	7.6	6.5	87	2.0
	07-22-87	0320	200	223	15.0	7.6	7.0	88	2.7
		0720	195	221	14.0	7.2	7.5	92	2.1
MT17.45	07-15-86	1449	330	325	25.5	7.2	5.6	88	<.1
		2310	334	341	16.0	7.3	6.6	86	3.0
	07-16-86	0700	338	339	13.5	7.4	7.1	87	1.6
	07-21-87	1240	243	243	19.0	7.4	6.6	91	.7
		2355	252	239	16.0	7.0	6.0	78	.6
MT17.16	07-15-86	1335	305	--	22.0	7.7	6.4	94	.4
	07-21-87	1200	207	208	17.5	7.5	6.8	91	<.1
		1205	207	209	17.5	7.5	6.8	91	<.1
		2310	212	213	16.5	7.2	5.8	76	.6
		2315	212	213	16.5	7.2	5.8	76	.4
MT14.89	07-15-86	1600	395	390	25.5	7.7	6.2	97	.4
	07-21-87	1310	236	235	21.5	7.6	6.7	97	<.1
	07-22-87	0020	239	233	19.5	6.9	5.7	80	.5
M13.44	07-15-86	1133	254	257	23.0	8.3	7.3	108	1.9
		1135	254	257	23.0	8.3	7.3	108	1.4
		1510	246	249	27.5	8.8	6.3	102	1.6
		1512	246	250	27.5	8.8	6.3	102	1.3
		1845	248	251	24.0	8.9	5.9	90	1.4
		2345	--	262	18.0	7.6	6.5	87	1.1
	07-16-86	0345	257	262	16.0	7.7	7.0	90	1.1
		0725	256	265	15.0	7.7	7.3	92	1.9
	07-21-87	1200	242	255	22.5	7.5	6.7	98	2.2
		1555	230	234	26.5	7.6	6.7	106	.9
		1600	230	244	26.5	7.6	6.7	106	1.3
		1950	214	238	21.0	7.8	6.1	87	1.0
	07-22-87	0020	224	244	17.5	7.2	7.0	93	1.8
		0355	221	241	15.0	7.8	7.3	92	1.8
		0750	215	238	14.5	7.9	7.6	94	.8
		0755	215	238	14.5	7.9	7.6	94	.7
M11.43	07-15-86	1156	255	257	23.0	8.3	7.9	117	.8
		1530	251	252	27.0	8.7	6.8	109	.7
		1904	250	253	23.0	8.7	6.1	90	1.0
	07-16-86	0005	255	260	18.0	7.6	6.5	87	1.0
		0405	255	261	16.0	7.7	6.7	86	1.1
		0815	258	254	15.5	7.9	7.7	98	1.2

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
M17.46	07-21-87	1130	0.26	0.24	0.50	0.22	1.2	1.4	1.9
		1530	.98	.02	1.0	.16	1.0	1.2	2.2
		1920	--	<.01	1.4	.18	1.0	1.2	2.6
		2345	1.2	.12	1.3	.23	1.2	1.4	2.7
		2350	.88	.12	1.0	.23	1.2	1.4	2.4
	07-22-87	0320	.89	.21	1.1	.21	1.1	1.3	2.4
		0720	1.1	.24	1.3	.19	1.1	1.3	2.6
MT17.45	07-15-86	1449	.45	.05	.50	.02	.78	.80	1.3
		2310	.63	.07	.70	.02	.68	.70	1.4
	07-16-86	0700	.54	.06	.60	.02	.78	.80	1.4
	07-21-87	1240	1.1	.02	1.1	.01	--	.70	1.8
		2355	.76	.04	.80	<.01	--	.70	1.5
MT17.16	07-15-86	1335	.89	.11	1.0	.19	--	--	--
	07-21-87	1200	.18	.02	.20	<.01	--	.40	.60
		1205	.49	.01	.50	<.01	--	.40	.90
		2310	.68	.02	.70	<.01	--	.30	1.0
		2315	.36	.04	.40	<.01	--	.40	.80
MT14.89	07-15-86	1600	.44	.06	.50	<.01	--	<.10	--
	07-21-87	1310	.85	.05	.90	.03	--	<.10	--
	07-22-87	0020	.83	.07	.90	.03	--	<.10	--
M13.44	07-15-86	1133	.97	.03	1.0	.05	1.3	1.3	2.3
		1135	.78	.02	.80	.04	1.2	1.2	2.0
		1510	.98	.02	1.0	.04	1.1	1.1	2.1
		1512	.98	.02	1.0	.04	1.1	1.1	2.1
		1845	.87	.03	.90	.05	.95	1.0	1.9
		2345	.68	.02	.70	.03	.97	1.0	1.7
	07-16-86	0345	.87	.03	.90	.03	1.2	1.2	2.1
		0725	.78	.02	.80	.02	1.2	1.2	2.0
	07-21-87	1200	.30	.10	.40	.15	1.3	1.5	1.9
		1555	.38	.02	.40	.04	1.2	1.2	1.6
		1600	.38	.02	.40	.04	1.2	1.2	1.6
		1950	--	<.01	1.0	.02	1.1	1.1	2.1
	07-22-87	0020	1.1	.02	1.1	.02	1.1	1.1	2.2
		0355	.85	.05	.90	.05	1.2	1.2	2.1
		0750	.84	.06	.90	.07	1.1	1.2	2.1
		0755	.53	.07	.60	.07	1.1	1.2	1.8
M11.43	07-15-86	1156	.67	.03	.70	.03	1.3	1.3	2.0
		1530	.69	.01	.70	.03	.97	1.0	1.7
		1904	.58	.02	.60	.03	.97	1.0	1.6
	07-16-86	0005	.68	.02	.70	.03	1.1	1.1	1.8
		0405	.58	.02	.60	.02	1.1	1.1	1.7
		0815	.68	.02	.70	.02	1.1	1.1	1.8

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
M11.43	07-21-87	0850	293	300	14.5	7.7	9.4	116	2.5
		1300	265	261	24.5	7.9	7.8	119	1.9
		1305	265	258	24.5	7.9	7.8	119	1.3
		1700	248	248	25.5	7.9	7.7	120	1.5
		2110	235	241	19.5	7.8	7.5	104	1.1
	07-22-87	0130	257	241	15.0	7.5	7.2	91	1.3
		0500	239	244	14.5	7.9	7.1	88	.7
		0505	239	244	14.5	7.9	7.1	88	.9
MT11.42	07-21-87	1430	220	207	16.5	6.6	4.9	64	.4
	07-22-87	0110	220	218	19.5	6.5	6.5	91	.1
MT10.52	07-15-86	1500	--	370	22.5	7.7	6.4	94	<.1
	07-21-87	1500	339	324	25.5	7.9	5.6	87	<.1
		1505	339	325	25.5	7.9	5.6	87	<.1
	07-22-87	0150	340	332	14.5	7.6	6.6	82	.2
		0158	340	328	14.5	7.6	6.6	82	.3
MT9.06	07-15-86	1635	518	510	25.0	8.4	6.3	97	.6
	07-21-87	1535	522	516	25.0	8.3	6.0	92	.7
	07-22-87	0240	597	585	14.5	7.7	7.0	88	.6
MT8.18	07-15-86	1710	--	523	26.0	8.4	5.5	86	<.1
	07-21-87	1605	576	565	25.5	8.2	5.5	85	<.1
	07-22-87	0305	587	558	15.5	7.9	6.4	81	.3
M7.34	07-15-86	1219	383	375	27.0	8.0	6.2	98	.9
		1600	378	370	27.5	8.2	6.0	96	.2
		1933	373	367	22.0	8.4	6.5	94	.7
	07-16-86	0025	402	390	17.0	8.1	6.8	89	.4
		0430	391	397	15.5	8.2	7.1	90	.3
		0835	383	397	18.5	8.1	7.3	98	.3
	07-21-87	0930	394	394	17.5	7.9	9.0	119	1.1
		1330	386	378	25.5	8.1	7.7	119	1.3
		1740	353	351	24.0	8.1	7.2	108	.4
		1745	353	351	24.0	8.1	7.2	108	.7
		2210	358	366	19.0	8.0	7.8	106	.7
	07-22-87	0200	361	357	16.0	7.7	7.1	91	.3
		0545	358	360	14.5	8.0	7.3	90	.3
MT4.95	07-15-86	1800	822	786	29.5	8.7	6.7	112	2.3
	07-21-87	1720	987	969	28.5	8.8	5.6	91	1.8
MT4.88	07-21-87	1640	591	565	24.5	9.2	10.3	156	2.2
	07-22-87	0355	750	700	17.0	7.6	6.1	80	1.2
MT4.36	07-21-87	1740	1,340	1,300	19.5	8.2	9.5	131	<.1

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
M11.43	07-21-87	0850	1.4	0.04	1.4	0.15	1.7	1.8	3.2
		1300	1.1	.06	1.2	.12	1.5	1.6	2.8
		1305	.73	.07	.80	.12	1.5	1.6	2.4
		1700	.58	.02	.60	.02	1.3	1.3	1.9
		2110	--	<.03	.70	<.01	--	1.1	1.8
	07-22-87	0130	.96	.04	1.0	.01	--	1.2	2.2
		0500	.85	.05	.90	.02	1.2	1.2	2.1
		0505	1.3	.04	1.3	.03	1.2	1.2	2.5
MT11.42	07-21-87	1430	.68	.02	.70	<.01	--	<.10	--
	07-22-87	0110	.77	.03	.80	<.01	--	<.10	--
MT10.52	07-15-86	1500	.35	.05	.40	.01	1.7	1.7	2.1
	07-21-87	1500	.58	.02	.60	<.01	--	.50	1.1
		1505	.48	.02	.50	<.01	--	.40	.90
	07-22-87	0150	1.2	.07	1.3	.01	.49	.50	1.8
		0158	.73	.07	.80	.01	.49	.50	1.3
MT9.06	07-15-86	1635	.54	.06	.60	.03	3.2	3.2	3.8
	07-21-87	1535	--	<.01	.70	.02	3.8	3.8	4.5
	07-22-87	0240	1.1	.03	1.1	.04	4.0	4.0	5.1
MT8.18	07-15-86	1710	.54	.06	.60	.04	3.5	3.5	4.1
	07-21-87	1605	--	<.01	.90	.01	3.8	3.8	4.7
	07-22-87	0305	.89	.01	.90	.04	3.9	3.9	4.8
M7.34	07-15-86	1219	.57	.03	.60	.02	1.7	1.7	2.3
		1600	.57	.03	.60	.02	1.5	1.5	2.1
		1933	.46	.04	.50	.02	1.5	1.5	2.0
	07-16-86	0025	.48	.02	.50	.02	1.6	1.6	2.1
		0430	.58	.02	.60	.02	1.6	1.6	2.2
		0835	.57	.03	.60	.01	1.5	1.5	2.1
	07-21-87	0930	.95	.05	1.0	.01	1.7	1.7	2.7
		1330	.74	.16	.90	.09	1.8	1.9	2.8
		1740	.98	.02	1.0	.01	1.7	1.7	2.7
		1745	1.2	.02	1.2	.02	1.7	1.7	2.9
		2210	--	<.01	1.1	.01	--	1.7	2.8
	07-22-87	0200	.49	.21	.70	<.01	--	1.6	2.3
		0545	--	.04	--	.01	1.7	1.7	--
MT4.95	07-15-86	1800	1.2	.08	1.3	.38	9.1	9.5	11
	07-21-87	1720	2.2	.13	2.3	.33	14	14	16
MT4.88	07-21-87	1640	--	<.01	1.9	.04	1.2	1.2	3.1
	07-22-87	0355	.88	.12	1.0	.03	.57	.60	1.6
MT4.36	07-21-87	1740	--	<.01	.30	<.01	--	3.9	4.2

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm) Onsite	Specific conductance (µS/cm) Laboratory	Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
M3.69	07-15-86	0900	--	517	19.0	8.2	6.9	93	1.6
		1440	--	530	30.0	8.2	5.7	95	.2
		1840	--	521	24.0	8.0	6.2	93	.7
		2115	515	514	20.5	8.0	6.0	84	.7
	07-16-86	0100	521	518	18.0	8.0	6.7	89	.3
		0445	528	524	16.5	8.0	6.4	82	.3
	07-21-87	1000	472	--	19.5	8.1	8.2	112	.7
		1400	499	524	27.5	8.1	7.0	112	.3
		1800	506	500	25.0	8.0	7.5	115	.8
		2230	502	498	19.0	8.0	7.8	105	.6
		2235	502	510	19.0	8.0	7.8	105	.5
	07-22-87	0230	517	495	16.5	8.0	7.3	94	.6
		0615	502	498	15.0	8.0	7.2	89	.4
M0.00	07-15-86	0940	--	574	21.0	8.3	7.0	97	1.5
		1530	--	585	30.5	8.2	6.6	110	.5
		1910	605	592	23.5	7.7	6.2	91	<.1
		2155	--	589	19.0	7.8	6.1	82	.3
	07-16-86	0120	--	592	18.0	8.2	6.7	88	.7
		0505	618	598	16.5	8.2	7.0	90	.1
	07-21-87	1030	633	626	22.0	8.2	8.2	119	.9
		1430	602	632	28.5	8.5	7.2	118	.9
		1435	602	631	28.5	8.5	7.2	118	.0
		1830	615	602	24.5	8.1	7.3	110	.4
		2315	600	590	19.0	8.2	7.9	106	.3
	07-22-87	0310	600	582	15.5	8.2	7.5	94	.4
		0650	585	576	15.5	8.1	7.3	91	.4
		0655	585	576	15.5	8.1	7.3	91	.2
FT68.10	07-15-86	0910	--	688	17.5	7.3	6.0	85	25
		1336	643	674	19.0	7.5	6.1	89	17
		1340	643	677	19.0	7.5	6.1	89	24
		1820	674	676	18.5	7.3	6.0	88	27
		2130	653	676	20.0	7.4	6.1	91	26
	07-16-86	0630	677	661	17.0	7.9	5.9	79	27
		1245	673	678	18.5	7.1	5.5	76	>53
	07-21-87	0915	599	611	17.0	8.2	5.3	74	.0
		1210	602	602	18.0	8.0	5.7	81	>30
		1215	602	601	18.0	8.0	5.7	81	.0
		1520	519	535	18.5	8.1	5.4	78	46
		2035	598	605	19.0	7.8	5.8	85	>32
	07-22-87	0045	587	570	18.5	7.8	5.9	86	>31
		0050	587	584	18.5	7.8	5.9	86	>31
		0445	588	582	18.0	7.6	6.1	87	>40
FT68.09	07-15-86	1905	738	731	17.5	6.7	3.6	52	.9
	07-21-87	0900	795	762	17.0	7.1	2.3	32	.0
		1220	709	706	18.0	7.5	3.1	44	>14
		1530	628	619	17.5	7.3	2.8	40	>15
		2105	605	693	18.0	6.8	1.0	<14	>16
	07-22-87	0100	700	697	17.0	6.8	1.0	<14	>34
		0510	691	682	17.0	6.9	1.0	<14	21

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
M3.69	07-15-86	0900	0.63	0.07	0.70	0.06	2.3	2.4	3.1
		1440	--	--	.70	.03	2.4	2.4	3.1
		1840	.53	.07	.60	.02	2.0	2.0	2.6
		2115	.46	.04	.50	.02	1.9	1.9	2.4
	07-16-86	0100	.45	.05	.50	.02	2.1	2.1	2.6
		0445	.25	.05	.30	.03	2.3	2.3	2.6
	07-21-87	1000	.65	.05	.70	.02	2.9	2.9	3.6
		1400	.94	.06	1.0	.02	2.5	2.5	3.5
		1800	.78	.02	.80	.03	2.2	2.2	3.0
		2230	.68	.02	.70	.02	2.3	2.3	3.0
		2235	.69	.01	.70	.02	2.2	2.2	2.9
	07-22-87	0230	.76	.04	.80	.02	2.4	2.4	3.2
		0615	1.0	.06	1.1	.03	2.4	2.4	3.5
M0.00	07-15-86	0940	.54	.06	.60	.03	2.4	2.4	3.0
		1530	.56	.04	.60	.02	2.4	2.4	3.0
		1910	.65	.05	.70	<.01	--	2.3	3.0
		2155	.46	.04	.50	.01	2.3	2.3	2.8
	07-16-86	0120	.36	.04	.40	.01	2.2	2.2	2.6
		0505	.35	.05	.40	.01	2.3	2.3	2.7
	07-21-87	1030	.85	.05	.90	.02	2.6	2.6	3.5
		1430	.65	.05	.70	.01	2.7	2.7	3.4
		1435	.94	.06	1.0	.01	2.7	2.7	3.7
		1830	.54	.06	.60	.02	2.6	2.6	3.2
		2315	.79	.01	.80	<.01	--	2.4	3.2
	07-22-87	0310	.76	.04	.80	<.01	--	2.4	3.2
		0650	.69	.01	.70	.01	2.4	2.4	3.1
		0655	.88	.02	.90	.01	2.4	2.4	3.3
FT68.10	07-15-86	0910	--	28	--	.10	--	--	--
		1336	10	30	40	.12	.48	.60	41
		1340	12	28	40	.11	.39	.50	40
		1820	11	28	39	.10	.50	.60	40
		2130	--	29	--	.10	.10	.20	--
	07-16-86	0630	14	29	43	.09	.01	.10	43
		1245	5.0	30	35	.10	.00	.10	35
	07-21-87	0915	19	18	37	1.3	.30	1.6	39
		1210	26	16	42	1.3	.20	1.5	43
		1215	19	17	36	1.3	.20	1.5	37
		1520	15	17	32	1.3	.00	1.1	33
		2035	14	17	31	1.4	.00	1.2	32
	07-22-87	0045	19	14	33	1.4	.10	1.5	34
		0050	16	17	33	1.4	.20	1.6	35
		0445	25	15	40	1.4	.10	1.5	41
FT68.09	07-15-86	1905	36	5.5	42	.22	22	22	64
	07-21-87	0900	27	6.1	33	.78	13	14	47
		1220	--	2.6	--	1.3	14	15	--
		1530	27	4.4	31	1.4	11	12	43
		2105	15	3.5	19	1.3	11	12	31
	07-22-87	0100	21	3.6	25	1.3	11	12	37
		0510	--	2.4	--	.76	12	13	--

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
F67.76	07-15-86	1000	640	665	22.0	7.6	4.7	73	19
		1400	644	633	24.5	7.7	4.5	73	19
		1830	--	645	17.0	7.5	5.6	78	16
		2150	--	646	15.0	7.6	5.5	74	18
	07-16-86	0108	395	404	12.5	7.5	5.5	67	.0
		0700	592	628	11.5	8.0	6.4	76	40
	07-21-87	0950	596	582	20.0	7.7	3.9	58	.0
		1250	608	605	27.5	7.7	3.6	62	>29
		1600	504	540	21.5	7.8	4.1	63	>30
		1605	504	--	21.5	7.8	4.1	63	>28
		2145	510	529	15.0	7.4	4.7	63	>31
	07-22-87	0120	548	560	13.5	7.5	4.8	62	62
		0540	577	580	12.0	7.6	5.4	67	>30
FT67.75	07-15-86	0953	410	415	16.0	7.4	6.1	83	.9
		2155	385	411	15.0	7.7	5.4	73	.6
	07-21-87	1015	441	440	15.5	7.7	5.7	76	3.1
F67.28	07-15-86	1035	562	567	24.5	7.9	4.9	79	15
		1420	--	567	24.5	7.8	5.1	83	11
		1848	567	574	16.5	7.5	6.4	88	20
		2215	545	569	13.5	8.0	6.4	83	20
	07-16-86	0155	--	567	11.0	8.1	7.0	82	25
		0715	--	538	10.5	7.7	6.7	78	38
	07-21-87	1020	532	526	22.0	7.8	4.5	69	.0
		1315	534	541	28.0	7.8	4.4	76	52
		1645	536	553	20.5	7.8	4.9	73	54
		2205	--	527	14.0	8.1	6.0	79	>29
		2210	--	494	14.0	8.1	6.0	79	>29
	07-22-87	0210	513	523	12.5	7.6	5.8	73	58
		0610	504	514	10.0	7.7	6.5	77	>30
F66.52	07-15-86	1100	561	567	13.5	7.1	5.9	76	.6
		1435	566	565	12.0	6.8	6.9	86	<.1
		1438	566	567	12.0	6.8	6.9	86	<.1
		1920	563	566	10.0	6.8	6.0	72	<.1
		2230	580	566	9.5	7.6	6.1	72	<.1
	07-16-86	0227	560	571	9.0	7.5	6.0	67	<.1
		0740	567	566	9.5	7.7	6.1	69	1.2
	07-21-87	1045	--	594	13.0	7.8	4.7	59	.8
		1340	595	598	13.5	7.8	4.4	57	.4
		1345	595	597	13.5	7.8	4.4	57	.8
		1710	--	597	11.5	7.7	4.3	53	.4
		2240	596	593	10.5	7.7	4.5	54	1.3
	07-22-87	0245	597	605	10.5	7.1	4.9	59	1.0
		0250	597	601	10.5	7.1	4.9	59	.2
		0650	594	601	9.5	7.3	5.2	61	.8
FT66.51	07-15-86	1055	345	364	16.5	7.1	6.5	89	.5
		2235	399	402	10.5	7.3	5.3	64	.1
	07-21-87	1035	251	244	14.5	7.4	7.1	93	<.1
		2115	272	273	12.5	7.3	5.7	72	.4

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
F67.76	07-15-86	1000	0.00	23	12	0.28	0.82	1.1	13
		1400	8.0	23	31	.27	.53	.80	32
		1830	7.0	23	30	.20	.70	.90	31
		2150	--	25	--	.22	.48	.70	--
	07-16-86	0108	--	--	--	.01	.09	.10	--
		0700	8.0	25	33	.19	.61	.80	34
	07-21-87	0950	24	13	37	.94	.96	1.9	39
		1250	26	13	39	.87	.83	1.7	41
		1600	15	16	31	.60	.60	1.2	32
		1605	17	17	34	.74	.76	1.5	35
		2145	12	15	27	.79	.61	1.4	28
	07-22-87	0120	12	13	25	.95	1.8	2.8	28
		0540	18	14	32	.90	.70	1.6	34
FT67.75	07-15-86	0953	.91	.09	1.0	.02	--	<.10	--
		2155	.82	.08	.90	.02	.18	.20	1.1
	07-21-87	1015	2.0	.05	2.0	.01	--	<.10	--
F67.28	07-15-86	1035	.00	17	10	.49	1.4	1.9	12
		1420	3.0	16	19	.56	.94	1.5	20
		1848	8.0	16	24	.35	1.3	1.6	26
		2215	--	16	--	.29	1.2	1.5	--
	07-16-86	0155	8.0	16	24	.24	1.3	1.5	25
		0715	14	16	30	.21	1.4	1.6	32
	07-21-87	1020	12	8.9	21	.46	2.4	2.9	24
		1315	11	7.2	18	.65	2.0	2.6	21
		1645	15	8.6	24	.48	1.2	1.7	26
		2205	12	9.8	22	.26	1.6	1.9	24
		2210	16	7.8	24	.27	1.7	2.0	26
	07-22-87	0210	13	8.3	21	.24	3.2	3.4	24
		0610	36	8.3	44	.23	2.0	2.2	46
F66.52	07-15-86	1100	.48	.12	.60	.02	3.2	3.2	3.8
		1435	.48	.12	.60	.01	3.1	3.1	3.7
		1438	.58	.12	.70	.01	3.0	3.0	3.7
		1920	.48	.12	.60	.01	3.1	3.1	3.7
		2230	.39	.11	.50	.02	3.2	3.2	3.7
	07-16-86	0227	.59	.11	.70	.01	3.2	3.2	3.9
		0740	.57	.13	.70	.02	3.1	3.1	3.8
	07-21-87	1045	.87	.23	1.1	.02	3.3	3.3	4.4
		1340	.86	.24	1.1	.03	3.4	3.4	4.5
		1345	.45	.25	.70	.03	3.3	3.3	4.0
		1710	.72	.28	1.0	.02	3.2	3.2	4.2
		2240	.62	.28	.90	.04	3.1	3.1	4.0
	07-22-87	0245	.71	.29	1.0	.04	3.1	3.1	4.1
		0250	.83	.27	1.1	.04	3.1	3.1	4.2
		0650	.95	.25	1.2	.03	3.0	3.0	4.2
FT66.51	07-15-86	1055	.36	.04	.40	.02	1.2	1.2	1.6
		2235	.25	.05	.30	.02	1.4	1.4	1.7
	07-21-87	1035	--	<.01	.30	<.01	--	.60	.90
		2115	.36	.04	.40	<.01	--	.80	1.2

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
FT66.13	07-21-87	1100	141	140	10.0	7.3	7.5	88	<0.1
F64.58	07-15-86	1130	383	397	15.0	8.0	7.0	92	.6
		1525	398	393	17.5	8.9	7.2	100	.3
		2000	397	396	13.5	8.5	7.5	95	.4
		2300	395	401	11.5	8.1	7.6	93	<.1
	07-21-87	1105	321	365	13.0	8.5	6.6	83	<.1
		1415	358	357	17.5	8.7	6.3	88	.7
		1745	321	368	15.5	8.5	6.5	87	.7
		1750	321	368	15.5	8.5	6.5	87	.6
		2320	351	375	12.5	8.3	7.3	91	<.1
	07-22-87	0325	366	374	11.0	7.9	7.8	94	.8
		0720	385	368	10.5	8.0	7.9	94	<.1
		0725	358	367	10.5	8.0	7.9	94	.3
FT64.57	07-15-86	1134	118	125	17.0	8.4	7.2	98	2.3
		2305	122	124	18.0	--	7.7	109	.3
	07-16-86	0341	114	123	16.0	--	7.4	98	.7
		0800	112	122	15.0	8.9	8.1	104	.6
	07-21-87	1135	115	111	13.5	7.7	7.6	96	.2
		1140	115	111	13.5	7.7	7.7	97	.4
		2145	115	113	15.5	7.9	7.5	100	.7
		2150	115	113	15.5	7.9	7.5	100	.8
FT64.48	07-15-86	1945	88	93	12.5	--	7.9	98	.2
	07-16-86	0815	78	94	11.0	8.8	8.1	95	.6
	07-21-87	1155	83	79	14.5	7.7	7.3	95	.9
		2245	83	80	14.0	7.6	7.3	93	.5
F60.74	07-15-86	1207	267	280	15.5	7.6	7.1	93	.7
		1600	272	280	18.5	8.6	7.2	100	<.1
		2015	273	279	16.0	8.4	7.1	94	.4
		2330	279	280	13.5	8.0	7.5	95	<.1
	07-21-87	1130	172	199	15.0	8.0	6.5	84	.2
		1440	169	194	18.5	8.0	6.3	88	.8
		1445	169	196	18.5	8.0	6.3	88	.6
		1820	184	186	17.0	8.1	6.7	91	.4
		2400	186	202	14.5	7.6	7.2	92	.4
	07-22-87	0005	186	199	14.5	7.6	7.2	92	.4
		0405	188	200	13.0	7.7	7.5	93	.5
		0745	191	202	12.5	7.8	8.0	99	.2
FT60.73	07-15-86	1205	67	--	13.0	7.3	7.7	96	.2
		2335	85	93	12.0	7.5	7.5	92	<.1
	07-16-86	0410	83	98	11.5	--	7.2	85	<.1
		0840	76	91	12.0	8.9	7.4	89	.6
	07-21-87	1235	135	133	15.5	7.4	6.3	82	.1
		2330	137	136	13.5	7.5	6.6	82	.1

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
FT66.13	07-21-87	1100	--	<0.01	0.20	<0.01	--	<0.10	--
F64.58	07-15-86	1130	.55	.05	.60	.02	2.6	2.6	3.2
		1525	.36	.04	.40	.02	2.5	2.5	2.9
		2000	.17	.03	.20	<.01	--	--	--
		2300	.46	.04	.50	.01	2.6	2.6	3.1
	07-21-87	1105	.46	.04	.50	<.01	--	2.1	2.6
		1415	.47	.03	.50	<.01	--	1.9	2.4
		1745	--	<.04	.60	<.01	--	2.1	2.7
		1750	.36	.04	.40	<.01	--	2.2	2.6
		2320	.96	.04	1.0	.01	--	2.3	3.3
	07-22-87	0325	.36	.04	.40	<.01	--	2.2	2.6
		0720	.56	.04	.60	.01	2.2	2.2	2.8
		0725	.46	.04	.50	.01	2.2	2.2	2.7
FT64.57	07-15-86	1134	.55	.05	.60	.02	--	<.10	--
		2305	.27	.03	.30	.02	--	<.10	--
	07-16-86	0341	.47	.03	.50	.01	--	<.10	--
		0800	.37	.03	.40	.01	--	<.10	--
	07-21-87	1135	--	<.01	.80	<.01	--	.30	1.1
		1140	--	<.01	.20	<.01	--	.30	.50
		2145	.66	.04	.70	<.01	--	.30	1.0
		2150	.37	.03	.40	<.01	--	.30	.70
FT64.48	07-15-86	1945	.46	.04	.50	.02	--	--	--
	07-16-86	0815	--	.02	<.20	<.01	--	.10	--
	07-21-87	1155	.70	.10	.80	.03	.17	.20	1.0
		2245	.79	.11	.90	.03	.17	.20	1.1
F60.74	07-15-86	1207	.45	.05	.50	.02	1.6	1.6	2.1
		1600	.46	.04	.50	.02	1.5	1.5	2.0
		2015	.45	.05	.50	.02	1.5	1.5	2.0
		2330	.56	.04	.60	.02	1.6	1.6	2.2
	07-21-87	1130	.28	.02	.30	.01	.99	1.0	1.3
		1440	.55	.05	.60	.02	.88	.90	1.5
		1445	.56	.04	.60	.01	.89	.90	1.5
		1820	.38	.02	.40	.01	.89	.90	1.3
		2400	.47	.03	.50	.01	.89	.90	1.4
	07-22-87	0005	.56	.04	.60	.02	.88	.90	1.5
		0405	.44	.06	.50	.02	1.1	1.1	1.6
		0745	.66	.04	.70	.01	.99	1.0	1.7
FT60.73	07-15-86	1205	--	.04	<.20	.01	.09	.10	--
		2335	--	.03	<.20	<.01	--	.20	--
	07-16-86	0410	.29	.01	.30	<.01	--	.30	.60
		0840	.17	.03	.20	<.01	--	.20	.40
	07-21-87	1235	.48	.12	.60	<.01	--	.70	1.3
		2330	.75	.05	.80	<.10	--	.70	1.5

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
FT59.90	07-15-86	2030	203	208	15.5	7.7	4.6	60	<0.1
	07-16-86	0435	235	248	13.0	8.4	7.9	97	.0
		0855	197	211	12.5	8.1	5.6	68	.9
	07-21-87	1305	67	56	13.5	6.8	7.6	94	<.1
	07-22-87	0015	61	56	12.5	7.1	7.5	92	<.1
F56.90	07-15-86	1225	207	217	18.5	7.9	7.0	95	.8
		1610	206	217	18.5	7.5	7.4	100	.2
		2040	208	219	16.0	7.5	7.5	97	.4
		2355	215	220	14.0	8.1	7.7	95	<.1
	07-16-86	0435	235	--	13.0	8.4	7.9	97	.3
		0920	245	257	14.0	8.6	8.1	102	1.2
	07-21-87	1000	184	188	16.5	7.7	9.3	121	.6
		1530	183	191	18.5	7.8	8.6	116	1.0
		1730	180	188	17.0	7.8	8.6	113	.6
		2400	180	196	14.5	8.0	7.9	99	<.1
	07-22-87	0005	180	196	14.5	8.0	7.9	99	<.1
		0400	180	188	13.0	8.0	7.9	96	.2
		0740	183	187	12.0	7.9	8.0	94	<.1
FT56.28	07-15-86	1630	225	233	20.0	7.3	6.7	94	.1
	07-16-86	0500	196	208	14.0	8.5	6.6	83	.3
	07-21-87	1340	213	208	17.5	7.9	7.2	95	<.1
FT54.98	07-15-86	1648	129	141	20.0	7.1	6.8	95	<.1
	07-16-86	0530	128	142	14.0	8.4	8.0	100	.1
	07-21-87	1410	120	123	19.0	7.8	7.1	96	<.1
		1415	120	118	19.0	7.8	7.1	96	<.1
	07-22-87	0110	141	122	15.0	7.8	7.2	90	<.1
		0115	141	123	15.0	7.8	7.2	90	<.1
F53.84	07-15-86	1245	287	299	17.0	8.0	7.3	95	1.2
		1247	287	300	17.0	8.0	7.3	95	.9
		1710	299	307	19.0	7.3	7.4	100	.2
		1715	299	308	19.0	7.3	7.4	100	.1
		2055	309	316	17.5	7.2	7.1	93	.4
	07-16-86	0015	322	324	16.0	8.2	7.3	92	.1
		0545	340	348	14.0	8.6	7.6	95	.4
		0940	347	355	14.5	8.1	7.8	99	.8
	07-21-87	1224	277	269	15.0	7.8	10.1	126	1.5
		1600	272	269	18.5	7.9	8.4	113	.1
		1605	272	272	18.5	7.9	8.4	113	.1
		2000	273	276	18.0	7.8	8.5	113	.2
	07-22-87	0035	272	273	15.0	7.9	7.7	95	.3
		0420	268	272	14.0	7.9	7.9	96	.5
		0805	268	269	12.5	8.0	7.9	93	<.1
		0810	268	268	12.5	8.0	7.9	93	<.1

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
FT59.90	07-15-86	2030	0.27	0.03	0.30	<0.01	--	<0.10	--
	07-16-86	0435	.37	.03	.40	<.01	--	--	--
		0855	--	.02	<.20	<.01	--	<.10	--
	07-21-87	1305	.36	.04	.40	<.01	--	.20	.60
	07-22-87	0015	.17	.03	.20	<.01	--	.20	.40
F56.90	07-15-86	1225	.26	.04	.30	.02	.98	1.0	1.3
		1610	.38	.02	.40	<.01	--	1.0	1.4
		2040	.46	.04	.50	.01	.99	1.0	1.5
		2355	.25	.05	.30	.01	.99	1.0	1.3
	07-16-86	0435	--	--	--	--	--	--	--
		0920	.27	.03	.30	<.01	--	1.3	1.6
	07-21-87	1000	.67	.03	.70	<.01	--	.90	1.6
		1530	.46	.04	.50	<.01	--	.90	1.4
		1730	--	<.01	.60	<.01	--	.90	1.5
		2400	--	<.01	.30	.01	.79	.80	1.1
	07-22-87	0005	--	<.01	.90	<.01	--	.80	1.7
		0400	.37	.03	.40	<.01	--	.90	1.3
		0740	--	<.01	.30	<.01	--	.80	1.1
FT56.28	07-15-86	1630	.29	.01	.30	<.01	--	.30	.60
	07-16-86	0500	.28	.02	.30	<.01	--	.40	.70
	07-21-87	1340	--	<.01	.50	<.01	--	.30	.80
FT54.98	07-15-86	1648	--	.02	<.20	<.01	--	.10	--
	07-16-86	0530	--	.03	<.20	<.01	--	.10	--
	07-21-87	1410	--	<.01	<.20	<.01	--	.10	--
		1415	--	<.01	<.20	<.01	--	.10	--
	07-22-87	0110	.38	.02	.40	<.01	--	.10	.50
		0115	.17	.03	.20	<.01	--	.20	.40
F53.84	07-15-86	1245	.26	.04	.30	.02	.88	.90	1.2
		1247	.28	.02	.30	.01	.89	.90	1.2
		1710	.18	.02	.20	<.01	--	.80	1.0
		1715	.28	.02	.30	<.01	--	.80	1.1
		2055	.38	.02	.40	<.01	--	.80	1.2
	07-16-86	0015	.37	.03	.40	<.01	--	.80	1.2
		0545	.28	.02	.30	<.01	--	.80	1.1
		0940	.27	.03	.30	<.01	--	1.0	1.3
	07-21-87	1224	--	<.01	.70	<.01	--	.80	1.5
		1600	.27	.03	.30	<.01	--	.80	1.1
		1605	.46	.04	.50	<.01	--	.80	1.3
		2000	--	<.01	.30	<.01	--	.80	1.1
	07-22-87	0035	--	<.01	.30	<.01	--	.70	1.0
		0420	.36	.04	.40	<.01	--	.80	1.2
		0805	--	<.01	.20	<.01	--	.80	1.0
		0810	--	<.01	.30	<.01	--	.80	1.1

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
FT53.39	07-21-87	1455	336	322	26.5	9.0	11.2	175	0.8
	07-22-87	0145	371	342	13.5	8.0	6.6	80	.2
F50.61	07-15-86	1000	704	683	17.0	7.9	7.2	92	1.5
		1540	542	--	26.0	7.9	6.0	93	2.3
		1920	--	726	21.5	7.8	6.8	96	.6
		2150	--	831	20.0	8.2	6.6	90	.5
	07-16-86	0125	941	886	17.0	7.7	6.1	79	1.6
		0510	975	929	15.5	7.8	6.3	79	.4
	07-21-87	1045	675	638	17.5	7.8	8.6	113	.0
		1500	618	608	22.5	8.1	8.1	118	1.7
		1845	676	665	20.5	7.8	7.1	99	1.2
		1850	676	663	20.5	7.8	7.1	99	1.8
		2305	742	733	17.0	7.7	8.2	107	1.0
	07-22-87	0330	738	709	14.0	7.9	7.6	93	2.1
		0705	700	691	14.0	7.9	7.2	87	.9
FT50.17	07-15-86	1500	1,590	1,620	25.5	8.0	6.8	104	.9
	07-21-87	1535	652	647	23.5	8.2	7.3	108	.1
	07-22-87	0230	737	732	14.5	8.1	7.4	90	<.1
F49.34	07-15-86	1030	--	642	22.5	8.2	7.1	101	1.2
		1045	--	647	22.5	8.2	7.1	101	1.0
		1600	--	666	28.0	7.9	6.0	96	.3
		1610	--	668	28.0	7.9	6.0	96	.6
		1940	--	667	22.5	8.1	6.3	91	<.1
		2215	765	696	19.5	7.8	6.5	88	.7
	07-16-86	0150	777	709	17.5	7.5	6.6	86	.4
		0535	784	726	16.5	7.8	6.9	88	.1
	12-09-86	1300	--	578	0.0	7.3	11.8	100	<.1
		1305	--	583	0.0	7.3	11.8	100	<.1
		1710	585	599	0.5	7.7	11.9	102	1.5
		2030	--	580	0.0	6.9	10.5	89	1.1
	12-10-86	0045	566	572	0.0	7.0	11.1	94	2.0
		0440	718	672	0.0	8.2	10.8	91	1.5
		0850	737	786	0.0	7.1	10.9	92	1.2
	02-10-87	0910	600	628	1.0	7.8	12.0	104	1.1
		1300	607	617	9.5	--	9.1	99	.9
		1645	652	642	8.5	8.0	8.6	91	.7
		2115	--	609	--	7.7	--	--	.6
		2120	--	611	--	7.7	--	--	.9
	02-11-87	0120	615	621	1.5	7.9	10.8	96	2.2
		0510	615	596	0.5	7.9	10.6	92	.2
	07-21-87	0900	643	642	16.0	8.3	8.2	103	.0
		1300	663	660	25.0	8.4	6.9	104	1.5
		1305	663	662	25.0	8.4	6.9	104	2.0
		1710	645	640	25.5	8.4	6.9	105	.4
		2110	659	665	19.5	8.2	7.0	95	.5
	07-22-87	0115	658	656	17.5	8.1	7.1	93	1.3
		0515	641	640	15.5	8.2	7.6	95	1.3
		0520	641	641	15.5	8.2	7.6	95	1.3

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
FT53.39	07-21-87	1455	--	<0.01	0.70	0.02	0.98	1.0	1.7
	07-22-87	0145	.47	.03	.50	.02	1.1	1.1	1.6
F50.61	07-15-86	1000	.45	.05	.50	.03	1.7	1.7	2.2
		1540	.65	.05	.70	.03	1.6	1.6	2.3
		1920	.25	.05	.30	.02	1.6	1.6	1.9
		2150	.54	.06	.60	.03	1.8	1.8	2.4
	07-16-86	0125	.53	.07	.60	.03	2.0	2.0	2.6
		0510	.25	.05	.30	.03	2.2	2.2	2.5
	07-21-87	1045	.28	.02	.30	.04	1.7	1.7	2.0
		1500	.75	.05	.80	.02	1.6	1.6	2.4
		1845	.75	.05	.80	.02	1.6	1.6	2.4
		1850	1.2	.02	1.2	.02	1.6	1.6	2.8
		2305	1.4	.02	1.4	.04	1.9	1.9	3.3
	07-22-87	0330	.38	.02	.40	.03	1.8	1.8	2.2
		0705	.67	.03	.70	.04	1.7	1.7	2.4
FT50.17	07-15-86	1500	.60	.10	.70	.02	5.0	5.0	5.7
	07-21-87	1535	--	<.01	1.3	.01	--	2.1	3.4
	07-22-87	0230	.57	.03	.60	<.01	--	2.4	3.0
F49.34	07-15-86	1030	.55	.05	.60	.03	2.4	2.4	3.0
		1045	.84	.06	.90	.03	2.5	2.5	3.4
		1600	.45	.05	.50	.03	2.4	2.4	2.9
		1610	.55	.05	.60	.02	2.4	2.4	3.0
		1940	.46	.04	.50	.01	2.5	2.5	3.0
		2215	.56	.04	.60	.01	2.8	2.8	3.4
	07-16-86	0150	.34	.06	.40	.02	2.6	2.6	3.0
		0535	.36	.04	.40	.02	2.7	2.7	3.1
	12-09-86	1300	.81	.39	1.2	.02	2.8	2.8	4.0
		1305	.52	.38	.90	.02	2.4	2.4	3.3
		1710	.19	.51	.70	.02	3.2	3.2	3.9
		2030	.53	.57	1.1	.02	3.2	3.2	4.3
	12-10-86	0045	.37	.53	.90	.02	3.1	3.1	4.0
		0440	.42	.48	.90	.02	3.7	3.7	4.6
		0850	.51	.39	.90	.03	4.4	4.4	5.3
	02-10-87	0910	.60	.50	1.1	.02	3.5	3.5	4.6
		1300	1.3	.52	1.8	.03	3.5	3.5	5.3
		1645	1.4	.46	1.9	.04	4.0	4.0	5.9
		2115	1.2	.60	1.8	.03	3.5	3.5	5.3
		2120	.82	.68	1.5	.03	3.5	3.5	5.0
	02-11-87	0120	1.3	.60	1.9	.04	3.4	3.4	5.3
		0510	.68	.72	1.4	.02	3.4	3.4	4.8
	07-21-87	0900	.39	.01	.40	.01	2.2	2.2	2.6
		1300	.65	.05	.70	.02	2.3	2.3	3.0
		1305	.26	.04	.30	.02	2.2	2.2	2.5
		1710	--	<.01	.50	<.01	--	2.2	2.7
		2110	.46	.04	.50	.01	2.2	2.2	2.7
	07-22-87	0115	.99	.01	1.0	.01	--	2.2	3.2
		0515	.58	.02	.60	.01	2.2	2.2	2.8
		0520	.76	.04	.80	.02	2.3	2.3	3.1

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
FT49.33	07-15-86	1050	1,060	1,010	19.0	7.3	9.0	120	1.2
		2220	996	943	15.5	7.3	4.7	59	.6
	07-21-87	1655	227	230	18.5	7.2	6.4	85	<.1
		1700	231	231	18.5	7.2	6.4	85	<.1
	07-22-87	0310	549	511	14.0	6.8	4.2	51	<.1
		0315	549	521	14.0	6.8	4.2	51	<.1
FT49.04	07-18-86	1140	1,560	1,570	23.0	8.8	9.3	135	.0
	12-09-86	1650	2,120	2,200	0.0	7.4	11.8	100	3.8
	12-10-86	0145	2,810	2,760	0.0	8.8	10.5	90	2.5
	02-10-87	1545	1,800	1,750	9.0	7.5	7.2	78	3.7
	02-11-87	0010	1,650	1,660	2.5	6.7	8.9	81	5.5
	07-21-87	1600	1,880	1,910	26.5	8.9	9.8	153	6.0
FT48.67	07-15-86	0955	821	793	20.0	7.1	1.4	19	5.7
		0957	821	793	20.0	7.1	1.4	19	4.6
		1220	831	799	20.5	7.2	1.3	18	10
		1227	831	803	20.5	7.2	1.3	18	9.8
		1518	850	823	20.5	7.1	--	--	13
		1832	853	824	20.5	7.2	3.0	42	12
		2355	817	807	20.5	7.1	--	--	13
	07-16-86	0150	834	803	20.0	7.1	3.0	41	14
		0400	823	796	20.0	7.2	4.1	57	13
		0635	818	788	20.0	7.1	4.4	61	9.2
	12-09-86	1035	748	735	13.0	7.0	2.0	24	9.7
		1405	796	751	13.0	7.0	2.8	33	9.6
		1410	796	758	13.0	7.0	2.8	33	9.2
		1810	795	757	13.0	7.0	3.0	35	13
		2200	778	760	13.5	7.4	2.4	28	21
	12-10-86	0215	781	758	13.0	7.3	3.9	46	11
		0615	768	--	13.0	7.3	4.6	54	12
	02-10-87	0930	--	--	12.5	7.2	3.1	36	12
		1215	828	827	12.5	7.0	2.8	33	16
		1445	833	830	12.5	7.1	3.0	35	11
		1800	840	830	13.0	7.1	3.0	36	13
		1810	840	826	13.0	7.1	2.9	34	13
		2150	--	876	13.0	7.0	--	--	13
	02-11-87	0030	840	882	12.5	7.1	2.8	33	19
		0310	835	813	12.5	7.2	4.3	50	11
		0630	820	807	12.0	7.1	4.9	57	8.0
	07-21-87	1045	875	863	20.0	7.0	1.0	14	.0
		1340	--	893	19.5	7.2	2.3	31	.0
		1345	--	895	19.5	7.2	2.3	31	.0
		1615	--	907	21.0	7.0	3.8	53	8.4
		2310	900	884	19.0	7.2	2.2	30	9.0
	07-22-87	0240	840	872	19.0	7.4	3.6	49	11
		0505	795	867	19.0	7.2	4.3	58	10
		0735	885	852	19.0	7.2	3.7	50	18
		0740	885	848	19.0	7.2	3.7	50	18

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
FT49.33	07-15-86	1050	0.65	0.05	0.70	0.02	2.9	2.9	3.6
		2220	.36	.04	.40	.03	2.9	2.9	3.3
	07-21-87	1655	--	<.01	.40	<.01	--	.20	.60
		1700	--	<.01	<.20	<.01	--	.30	--
	07-22-87	0310	.46	.04	.50	<.01	--	.90	1.4
		0315	.37	.03	.40	<.01	--	.90	1.3
FT49.04	07-18-86	1140	1.4	.14	1.5	.58	4.0	4.6	6.1
	12-09-86	1650	1.4	.18	1.6	.08	9.1	9.2	11
	12-10-86	0145	1.3	.30	1.6	.13	11	11	13
	02-10-87	1545	1.2	.05	1.2	.23	8.1	8.3	9.5
	02-11-87	0010	2.3	.05	2.4	.19	7.6	7.8	10
	07-21-87	1600	2.0	.03	2.0	.17	9.8	10	12
FT48.67	07-15-86	0955	3.0	17	20	.02	--	<.10	--
		0957	3.0	17	20	.02	--	<.10	--
		1220	11	17	28	.03	--	<.10	--
		1227	4.0	18	22	.02	--	<.10	--
		1518	4.0	18	22	.02	--	<.10	--
		1832	--	20	--	.02	--	<.10	--
		2355	4.0	18	22	.02	--	<.10	--
	07-16-86	0150	4.0	17	21	.03	--	<.10	--
		0400	4.0	18	22	.04	--	<.10	--
		0635	--	17	--	.03	--	<.10	--
	12-09-86	1035	5.0	17	22	.01	--	<.10	--
		1405	2.0	19	21	.01	--	<.10	--
		1410	.00	19	17	.01	--	<.10	--
		1810	7.0	20	27	.02	--	<.10	--
		2200	.00	20	18	.02	--	<.10	--
	12-10-86	0215	6.0	20	26	.02	--	<.10	--
		0615	2.0	19	21	.03	--	<.10	--
	02-10-87	0930	9.0	20	29	.02	--	<.10	--
		1215	4.0	21	25	.06	.04	.10	25
		1445	2.0	24	26	.07	.03	.10	26
		1800	3.0	23	26	.02	--	<.10	--
		1810	3.0	23	26	.02	--	<.10	--
		2150	2.0	26	28	.01	--	<.10	--
	02-11-87	0030	4.0	25	29	.01	--	<.10	--
		0310	4.0	24	28	.02	--	<.10	--
		0630	2.0	22	24	.02	--	<.10	--
	07-21-87	1045	4.0	15	19	.01	--	.20	19
		1340	5.0	15	20	.01	--	<.10	--
		1345	6.0	15	21	.01	--	.30	21
		1615	6.0	18	24	.01	--	<.10	--
		2310	12	18	30	.01	--	<.10	--
	07-22-87	0240	8.0	15	23	.01	--	--	--
		0505	9.0	15	24	.01	--	<.10	--
		0735	.00	17	17	.02	--	<.10	--
		0740	1.0	16	17	.01	--	<.10	--

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
FT48.66	07-15-86	0900	773	787	19.0	6.7	3.3	44	6.3
		1200	812	783	21.0	7.2	2.6	37	7.8
		1500	826	800	22.5	7.3	2.7	39	11
		1805	835	809	21.5	7.3	2.9	41	12
		2330	815	801	20.5	7.1	2.0	28	11
	07-16-86	0125	830	792	19.5	7.2	3.9	53	11
		0335	816	782	19.0	7.3	5.2	70	8.9
		0615	814	779	18.0	7.3	5.6	74	6.8
	12-09-86	1105	740	730	10.5	7.0	4.5	50	9.8
		1445	758	737	10.5	7.0	4.9	55	8.0
		1830	751	730	10.0	7.1	5.0	55	15
		2225	758	738	10.0	7.4	3.9	43	22
	12-10-86	0240	745	726	5.0	7.5	5.7	55	6.6
		0245	745	726	5.0	7.5	5.7	55	7.0
		0640	763	742	6.0	7.5	5.9	59	13
	02-10-87	0950	791	802	11.5	7.2	3.2	37	13
		1230	765	821	12.0	7.2	3.7	43	15
		1510	784	800	12.5	7.2	3.8	44	13
		1830	717	770	12.0	7.2	4.0	46	11
		2245	820	851	11.5	7.0	3.9	44	14
	02-11-87	0050	804	836	10.0	7.2	4.8	53	6.8
		0320	753	751	8.5	7.3	7.0	74	8.6
		0650	770	756	8.5	7.2	6.8	72	8.8
		0655	770	763	8.5	7.2	6.8	72	8.5
	07-21-87	1110	860	848	20.0	7.1	2.2	30	.0
		1415	840	869	21.0	7.2	3.8	53	9.2
		1710	--	864	21.0	7.4	3.9	55	9.2
		1715	--	863	21.0	7.4	3.9	55	13
		2335	845	861	19.0	--	3.8	51	7.7
	07-22-87	0310	850	827	18.5	7.2	5.0	67	9.8
		0525	--	800	17.0	7.5	5.8	75	11
		0530	--	798	17.0	7.5	5.8	75	8.6
		0750	815	813	18.0	7.4	4.7	62	19
FT48.46	07-15-86	1022	812	781	20.0	7.3	5.4	74	9.9
		1250	825	793	21.5	7.3	5.2	74	11
		1546	837	805	22.0	7.4	--	--	11
		1905	845	817	21.0	7.5	5.0	70	11
	07-16-86	0030	814	805	20.0	7.3	4.3	59	12
		0215	832	799	19.5	7.4	5.4	74	11
		0425	816	785	19.0	7.5	5.5	74	11
		0655	828	795	18.0	7.5	5.6	74	8.0
	12-09-86	1135	715	726	10.0	7.2	7.9	87	8.5
		1520	753	745	9.0	7.0	8.0	86	13
		1905	754	714	9.0	7.0	8.0	86	14
		2300	754	736	9.0	7.5	6.9	74	18
	12-10-86	0325	751	728	5.0	7.7	8.3	80	9.7
		0710	771	750	5.0	7.7	8.4	81	7.7

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
FT48.66	07-15-86	0900	9.0	15	24	0.03	0.37	0.40	24
		1200	2.0	15	17	.02	.28	.30	17
		1500	--	--	20	.03	.47	.50	20
		1805	--	17	--	.02	.38	.40	--
		2330	4.0	16	20	.03	.37	.40	20
	07-16-86	0125	--	--	15	.03	.57	.60	16
		0335	3.0	11	14	.04	1.1	1.1	15
		0615	--	8.5	--	.03	1.3	1.3	--
	12-09-86	1105	6.0	14	20	.01	.59	.60	21
		1445	.00	16	16	.02	.58	.60	17
		1830	4.0	16	20	.02	.58	.60	21
		2225	1.0	17	18	.02	.68	.70	19
	12-10-86	0240	1.0	12	13	.03	1.3	1.3	14
		0245	4.0	14	18	.02	1.3	1.3	19
		0640	1.0	14	15	.03	1.2	1.2	16
	02-10-87	0950	2.0	19	21	.02	.28	.30	21
		1230	5.0	20	25	.07	.43	.50	25
		1510	2.0	20	22	.06	.54	.60	23
		1830	2.0	22	24	.03	.57	.60	25
		2245	2.0	21	23	.02	.58	.60	24
	02-11-87	0050	4.0	18	22	.02	.88	.90	23
		0320	3.0	15	18	.03	1.4	1.4	19
		0650	7.0	15	22	.03	1.2	1.2	23
		0655	.00	15	15	.03	1.2	1.2	16
	07-21-87	1110	6.0	11	17	.01	--	.20	17
		1415	6.0	12	18	.01	--	.40	18
		1710	.00	16	16	.01	--	.40	16
		1715	.00	16	15	.01	--	<.40	--
		2335	1.0	16	17	.01	--	<.10	--
	07-22-87	0310	4.0	11	15	.03	1.1	1.1	16
		0525	5.0	9.0	14	.01	--	1.0	15
		0530	7.2	8.8	16	.01	--	1.1	17
		0750	2.0	12	14	.01	--	.30	14
FT48.46	07-15-86	1022	2.0	16	18	.08	.22	.30	18
		1250	2.0	16	18	.09	.31	.40	18
		1546	3.0	16	19	.10	.50	.60	20
		1905	--	1.0	--	.10	.50	.60	--
	07-16-86	0030	4.0	16	20	.12	.38	.50	20
		0215	--	--	20	.13	.47	.60	21
		0425	.00	12	12	.19	.81	1.0	13
		0655	--	11	--	.19	1.0	1.2	--
	12-09-86	1135	.00	17	17	.04	.56	.60	18
		1520	.00	17	15	.04	.66	.70	16
		1905	8.0	17	25	.04	.66	.70	26
		2300	.00	16	16	.04	.66	.70	17
	12-10-86	0325	6.0	14	20	.05	1.3	1.3	21
		0710	7.0	13	20	.05	1.3	1.3	21

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
FT48.46	02-10-87	1025	795	801	11.5	7.4	--	--	15
		1345	--	816	12.0	7.4	6.5	75	16
		1350	--	818	12.0	7.4	6.5	75	17
		1615	817	799	12.0	7.3	6.6	76	14
		1900	820	818	11.5	7.3	6.7	77	15
		2320	810	848	11.0	7.3	6.6	75	14
	02-11-87	0200	788	824	9.5	7.5	7.6	83	19
		0415	753	740	8.0	7.6	8.4	88	11
		0750	782	779	9.5	7.4	7.8	85	13
	07-21-87	1135	--	851	20.0	7.5	5.1	70	.0
		1450	--	843	21.0	7.3	5.8	81	.0
		1740	--	858	21.0	7.4	5.6	79	14
		2400	845	866	18.5	--	5.5	74	6.8
	07-22-87	0345	785	850	17.5	7.6	5.6	73	10
		0350	785	851	17.5	7.6	5.6	73	8.5
		0600	750	811	17.0	7.5	5.9	76	8.6
		0820	835	817	17.5	7.7	5.9	77	18
FT47.74	02-10-87	1510	608	631	4.0	7.1	12.2	116	1.3
	07-21-87	1840	500	497	23.5	9.5	4.8	71	.8
F47.61	07-15-86	1130	--	757	22.5	7.6	6.2	89	7.0
		1655	830	798	23.5	7.7	5.5	81	9.4
		2000	--	790	21.5	7.5	5.9	83	9.0
		2250	821	793	20.0	7.6	5.7	78	11
	07-16-86	0230	823	790	19.0	7.6	5.5	74	9.5
		0620	811	781	17.5	7.6	6.2	81	5.4
	12-09-86	1235	695	687	6.5	7.4	10.0	101	4.9
		1600	--	681	5.0	7.3	10.0	96	8.9
		1945	672	675	3.5	6.9	10.5	98	9.8
		2350	705	693	3.0	7.2	9.6	88	13
		2355	705	692	3.0	7.2	9.6	88	13
	12-10-86	0410	715	725	1.0	8.0	9.9	86	5.4
		0820	778	760	2.0	8.0	9.8	87	6.7
	02-10-87	1045	760	767	10.0	7.6	7.8	86	12
		1545	788	771	11.5	7.6	7.9	90	9.3
		1940	767	763	9.5	7.6	7.9	86	10
		2345	731	747	8.0	7.6	8.6	90	8.9
	02-11-87	0440	--	709	5.5	7.9	9.4	92	6.1
		0445	--	701	5.5	7.9	9.4	92	9.1
		0815	729	723	6.0	--	9.3	92	4.8
	07-21-87	0930	782	778	18.0	7.8	7.3	95	.0
		1335	803	799	23.0	7.9	6.4	93	3.7
		1740	809	784	22.0	7.9	6.0	86	4.5
		1745	809	779	22.0	7.9	6.0	86	4.5
		2145	841	837	18.5	7.7	5.6	74	6.1
	07-22-87	0150	831	831	17.0	8.1	6.0	77	6.9
		0550	797	799	15.5	7.7	6.3	79	5.9

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
FT48.46	02-10-87	1025	3.0	20	23	0.03	0.27	0.30	23
		1345	7.0	19	26	.09	.51	.60	27
		1350	6.0	19	25	.09	.51	.60	26
		1615	1.0	22	23	.06	.64	.70	24
		1900	2.0	22	24	.04	.56	.60	25
		2320	.00	22	21	.03	.57	.60	22
	02-11-87	0200	5.0	17	22	.04	.96	1.0	23
		0415	2.0	14	16	.04	1.5	1.5	17
		0750	9.0	16	25	.04	.76	.80	26
	07-21-87	1135	5.0	12	17	.08	.42	.50	17
		1450	3.0	13	16	.13	.07	.20	16
		1740	4.0	13	17	.14	.56	.70	18
		2400	2.0	15	17	.08	.42	.50	17
	07-22-87	0345	5.0	10	15	.15	.95	1.1	16
		0350	5.0	10	15	.16	.84	1.0	16
		0600	4.4	8.6	13	.09	1.0	1.1	14
		0820	9.0	12	21	.14	.66	.80	22
FT47.74	02-10-87	1510	.76	.04	.80	.02	.68	.70	1.5
	07-21-87	1840	.13	.07	.20	.02	.08	.10	.30
F47.61	07-15-86	1130	3.0	11	14	.10	.80	.90	15
		1655	3.0	13	16	.12	.88	1.0	17
		2000	6.0	14	20	.12	.88	1.0	21
		2250	5.0	13	18	.12	.68	.80	19
	07-16-86	0230	2.0	12	14	.14	.76	.90	15
		0620	--	8.4	--	.21	1.3	1.5	--
	12-09-86	1235	.00	17	13	.02	1.2	1.2	14
		1600	.60	9.4	10	.03	1.7	1.7	12
		1945	.60	9.4	10	.04	1.8	1.8	12
		2350	1.0	11	12	.03	1.6	1.6	14
		2355	2.0	11	13	.03	1.6	1.6	15
	12-10-86	0410	4.0	10	14	.04	2.0	2.0	16
		0820	2.0	10	12	.04	1.9	1.9	14
	02-10-87	1045	1.0	21	22	.03	1.1	1.1	23
		1545	.00	15	14	.07	1.5	1.6	16
		1940	2.0	15	17	.04	1.6	1.6	19
		2345	6.0	14	20	.03	1.6	1.6	22
	02-11-87	0440	3.0	10	13	.04	2.2	2.2	15
		0445	2.0	10	12	.04	2.2	2.2	14
		0815	7.0	12	19	.04	1.8	1.8	21
	07-21-87	0930	2.3	5.7	8.0	.14	1.3	1.4	9.4
		1335	4.0	7.0	11	.18	1.0	1.2	12
		1740	6.5	8.5	15	.12	.78	.90	16
		1745	6.5	8.5	15	.11	1.1	1.2	16
		2145	5.1	8.9	14	.16	.94	1.1	15
	07-22-87	0150	4.4	6.6	11	.17	1.4	1.6	13
		0550	6.4	3.6	10	.17	1.8	2.0	12

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
FT47.60	07-15-86	1705	1,190	1,110	24.5	7.8	6.7	101	2.0
	07-16-86	0235	1,210	1,140	16.5	7.8	6.2	79	.9
	12-09-86	1620	1,290	1,260	2.5	7.4	11.4	103	.6
	12-10-86	0020	1,130	1,050	1.0	8.0	10.2	89	2.4
		0025	1,130	1,050	1.0	8.0	10.2	89	2.2
	02-10-87	1530	1,210	1,230	9.5	7.2	9.0	98	1.6
		2315	1,290	1,260	4.0	7.2	9.8	93	3.0
		2320	1,290	1,330	4.0	7.2	9.8	93	.9
	07-21-87	1905	1,120	1,200	21.5	7.6	5.9	83	.3
	07-22-87	0540	1,160	1,230	16.5	7.7	6.6	84	1.1
FT46.93	12-09-86	1545	1,140	1,050	5.0	7.6	5.0	49	2.0
		2330	1,140	1,040	3.5	7.7	4.9	46	1.9
	02-10-87	1435	1,070	1,060	9.5	6.7	6.3	68	1.8
		1440	1,070	1,070	9.5	6.7	6.3	68	1.9
		2240	1,080	1,050	8.5	7.4	6.4	68	2.5
	07-21-87	1815	1,110	1,080	19.0	8.7	3.8	51	2.7
	07-22-87	0445	1,130	1,110	18.0	7.4	3.6	47	2.9
FT46.50	12-09-86	1515	784	738	11.0	7.1	7.0	79	<.1
		1520	784	742	11.0	7.1	7.0	79	.3
		2305	788	747	11.0	6.9	7.3	82	.1
	02-10-87	1420	789	789	10.5	6.4	8.6	96	.9
		2220	796	808	10.0	7.3	7.3	80	.7
	07-21-87	1750	826	823	15.5	7.0	6.7	83	<.1
	07-22-87	0410	832	827	14.5	7.0	6.0	73	1.4
FT45.63	02-10-87	1315	948	945	12.0	7.9	8.3	96	5.7
		2200	942	947	1.0	7.1	10.9	95	4.4
	07-21-87	1930	1,030	1,040	21.5	8.4	6.6	93	2.4
F45.22	07-15-86	1200	808	786	25.0	7.8	5.9	89	7.8
		1640	--	814	26.0	7.7	6.0	92	7.2
		2030	--	816	22.0	7.6	5.1	73	5.0
		2315	851	816	19.5	7.7	5.6	76	7.5
	07-16-86	0300	860	820	18.5	7.6	5.6	74	8.4
		0645	874	834	17.0	7.6	5.8	74	4.5
	12-09-86	0820	710	743	2.0	8.1	9.9	88	.0
		1230	760	734	6.0	7.9	8.9	88	7.1
		1620	769	731	4.5	8.2	9.3	89	4.9
		1625	769	705	4.5	8.2	9.3	89	2.7
		2030	765	730	3.0	8.0	9.5	87	7.8
	12-10-86	0045	783	746	1.5	7.9	8.7	77	9.9
		0440	820	788	0.0	8.2	8.9	75	7.9
		0445	820	785	0.0	8.2	8.9	75	7.0

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
FT47.60	07-15-86	1705	0.75	0.05	0.80	0.09	7.0	7.1	7.9
	07-16-86	0235	.65	.05	.70	.10	6.9	7.0	7.7
	12-09-86	1620	--	--	1.1	.09	11	11	12
	12-10-86	0020	.60	3.8	4.4	.07	8.2	8.3	13
		0025	.40	3.9	4.3	.07	8.0	8.1	12
	02-10-87	1530	1.2	.05	1.3	.09	9.9	10	11
		2315	1.5	.05	1.5	.10	9.9	10	11
		2320	1.7	.05	1.7	.10	9.9	10	12
	07-21-87	1905	1.0	.39	1.4	.10	6.1	6.2	7.6
	07-22-87	0540	1.1	.91	2.0	.13	6.8	6.9	8.9
FT46.93	12-09-86	1545	2.0	13	15	.08	.12	.20	15
		2330	8.0	7.0	15	.10	.10	.20	15
	02-10-87	1435	2.6	1.2	3.8	.29	11	11	15
		1440	2.7	1.2	3.9	.28	9.7	10	14
		2240	2.1	1.2	3.3	.32	11	11	14
	07-21-87	1815	6.9	5.1	12	3.4	13	16	28
	07-22-87	0445	3.8	6.2	10	3.7	11	15	25
FT46.50	12-09-86	1515	.97	.03	1.0	.01	--	7.4	8.4
		1520	.88	.02	.90	<.01	--	6.8	7.7
		2305	.59	.01	.60	<.01	--	7.0	7.6
	02-10-87	1420	1.1	.01	1.1	.01	--	7.7	8.8
		2220	.87	.03	.90	<.01	--	7.7	8.6
	07-21-87	1750	1.1	.01	1.1	.01	--	7.0	8.1
	07-22-87	0410	1.3	.04	1.3	.01	--	7.2	8.5
FT45.63	02-10-87	1315	18	6.0	24	.08	8.1	8.2	32
		2200	6.6	5.4	12	.06	8.9	9.0	21
	07-21-87	1930	2.1	.02	2.1	.01	--	6.9	9.0
F45.22	07-15-86	1200	4.0	10	14	.64	1.3	1.9	16
		1640	1.6	9.4	11	.70	1.4	2.1	13
		2030	.00	11	11	.65	1.5	2.1	13
		2315	3.0	11	14	.58	1.2	1.8	16
	07-16-86	0300	4.0	11	15	.59	1.2	1.8	17
		0645	--	8.0	--	.70	1.7	2.4	--
	12-09-86	0820	1.0	5.0	6.0	.09	3.6	3.7	9.7
		1230	.00	8.7	7.2	.09	2.3	2.4	9.6
		1620	.30	7.2	7.5	.10	2.5	2.6	10
		1625	3.2	6.6	9.8	.08	2.1	2.2	12
		2030	.90	8.1	9.0	.09	2.6	2.7	12
	12-10-86	0045	3.9	9.1	13	.07	2.5	2.6	16
		0440	2.5	8.5	11	.07	2.9	3.0	14
		0445	1.1	8.3	9.4	.08	3.0	3.1	12

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
F45.22	02-10-87	0920	777	779	6.0	8.2	7.9	79	7.1
		1330	802	760	12.0	7.9	7.1	82	10
		1705	814	808	10.5	8.0	6.9	77	9.0
		1710	814	805	10.5	8.0	6.9	77	7.8
		2145	816	814	8.5	8.0	7.4	79	12
	02-11-87	0130	779	783	7.5	7.9	8.4	87	9.1
		0600	770	762	4.5	8.1	9.5	91	6.4
		0605	770	755	4.5	8.1	9.5	91	6.6
	07-21-87	1000	840	836	18.5	7.9	6.1	80	.0
		1410	824	818	25.0	7.8	5.2	78	7.4
		1815	856	824	22.0	8.0	5.0	71	2.1
		2225	863	859	19.5	7.7	4.7	63	4.4
		2230	863	856	19.5	7.7	4.7	63	3.8
	07-22-87	0230	872	867	17.5	7.8	5.1	66	6.1
		0625	874	871	16.0	8.1	5.7	72	5.6
FT45.01	12-09-86	1430	1,950	1,940	2.0	8.7	10.6	95	.4
		2225	2,090	2,080	0.5	8.3	11.9	102	.6
	02-10-87	1245	3,330	3,350	7.5	7.9	9.7	101	1.0
		2130	3,310	3,320	2.5	7.5	10.3	94	1.0
	07-21-87	1955	3,260	3,340	22.0	8.3	6.1	87	1.5
	07-22-87	0620	3,400	3,410	15.0	8.3	7.2	89	.2
F43.66	07-15-86	1230	831	804	25.0	7.8	5.1	76	6.1
		1245	831	801	25.0	7.8	5.1	76	5.3
		1700	--	811	27.0	7.7	5.6	87	4.7
		2035	807	822	22.5	7.8	4.6	66	5.4
		2340	838	834	19.5	7.6	5.3	72	7.7
	07-16-86	0325	869	835	18.0	7.7	5.5	72	7.5
		0700	879	849	17.5	7.6	5.3	69	5.0
	12-09-86	0900	809	773	2.0	8.3	10.4	93	1.5
		0905	809	772	2.0	8.3	10.4	93	1.6
		1330	805	757	5.0	8.0	10.0	97	6.5
		1650	789	738	4.0	8.0	8.9	84	7.0
		2110	795	758	2.5	7.8	9.5	86	5.9
		2115	795	758	2.5	7.8	9.5	86	7.9
	12-10-86	0130	799	760	0.5	8.1	9.1	78	9.1
		0525	851	814	0.0	8.2	8.6	73	7.6
	02-10-87	0950	789	832	6.0	8.2	7.8	78	5.4
		0955	789	799	6.0	8.2	7.8	78	5.6
		1410	808	795	12.5	7.9	7.1	83	9.4
		1740	815	831	10.0	7.9	6.4	71	9.8
		2210	828	835	7.5	8.1	7.1	74	11
		2215	828	822	7.5	8.1	7.1	74	11
	02-11-87	0340	799	804	6.0	7.0	9.0	89	8.1
		0610	799	801	5.0	8.1	8.6	83	2.5

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
F45.22	02-10-87	0920	9.1	9.9	19	0.07	2.3	2.4	21
		1330	2.0	13	15	.09	1.7	1.8	17
		1705	5.0	13	18	.12	1.9	2.0	20
		1710	2.0	13	15	.12	2.0	2.1	17
		2145	1.0	14	15	.08	1.9	2.0	17
	02-11-87	0130	.00	13	13	.07	1.9	2.0	15
		0600	1.0	10	11	.07	2.5	2.6	14
		0605	1.1	9.9	11	.07	2.5	2.6	14
	07-21-87	1000	.50	3.3	3.8	.54	3.3	3.8	7.6
		1410	2.6	5.4	8.0	.73	2.3	3.0	11
		1815	3.2	6.8	10	.71	2.2	2.9	13
		2225	1.0	7.3	8.3	.78	1.8	2.6	11
		2230	6.8	6.2	13	.63	2.1	2.7	16
	07-22-87	0230	3.1	6.9	10	.78	2.0	2.8	13
		0625	5.2	3.8	9.0	.58	2.9	3.5	12
FT45.01	12-09-86	1430	.67	.03	.70	.01	5.8	5.8	6.5
		2225	.87	.03	.90	.01	7.0	7.0	7.9
	02-10-87	1245	1.6	.10	1.7	.02	15	15	17
		2130	2.3	.07	2.4	.02	15	15	17
	07-21-87	1955	1.6	.04	1.6	.04	11	11	13
	07-22-87	0620	2.0	.05	2.0	.07	12	12	14
F43.66	07-15-86	1230	2.0	7.0	9.0	.99	1.7	2.7	12
		1245	1.1	8.2	9.3	.99	1.6	2.6	12
		1700	3.1	7.9	11	1.0	1.5	2.5	13
		2035	1.7	9.3	11	.98	1.5	2.5	13
		2340	--	--	14	.88	1.5	2.4	16
	07-16-86	0325	14	10	24	.80	1.4	2.2	26
		0700	--	8.2	--	.86	1.6	2.5	--
	12-09-86	0900	1.2	4.8	6.0	.10	3.7	3.8	9.8
		0905	.80	4.5	5.3	.10	3.7	3.8	9.1
		1330	1.3	7.4	8.7	.11	2.7	2.8	11
		1650	3.0	6.4	9.4	.11	2.3	2.4	12
		2110	3.9	8.1	12	.11	2.8	2.9	15
		2115	3.7	7.3	11	.11	2.9	3.0	14
	12-10-86	0130	.80	7.8	8.6	.09	2.7	2.8	11
		0525	.40	7.4	7.8	.08	3.1	3.2	11
	02-10-87	0950	--	8.5	--	.09	2.7	2.8	--
		0955	7.5	7.5	15	.09	2.7	2.8	18
		1410	6.0	12	18	.15	1.8	2.0	20
		1740	6.0	12	18	.17	2.0	2.2	20
		2210	2.0	13	15	.12	2.1	2.2	17
		2215	2.0	14	16	.12	2.1	2.2	18
	02-11-87	0340	9.0	13	22	.11	2.3	2.4	24
		0610	6.0	9.0	15	.10	2.6	2.7	18

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
F43.66	07-21-87	1030	881	875	19.5	7.9	6.4	86	0.0
		1445	848	844	26.0	7.9	5.6	86	10
		1450	848	843	26.0	7.9	5.6	86	11
		1845	873	854	22.5	7.9	5.2	75	2.2
		2305	872	870	19.0	7.8	5.2	69	4.4
	07-22-87	0315	886	844	17.0	7.8	5.1	65	7.3
		0655	895	893	16.0	7.8	5.7	71	6.0
		0700	895	890	16.0	7.8	5.7	71	7.2
FT43.23	07-15-86	1350	5,670	5,590	22.5	8.3	6.5	94	1.2
	12-09-86	1610	6,420	6,130	0.0	8.5	11.1	96	2.3
	02-10-87	1220	3,240	3,310	4.0	8.4	10.4	99	1.1
F40.98	07-15-86	0935	--	835	19.5	7.8	5.2	70	4.9
		0940	--	801	19.5	7.8	5.2	70	3.4
		1455	844	810	28.5	7.7	3.9	63	3.8
		1500	844	811	28.5	7.7	3.9	63	2.8
		1920	863	826	25.0	7.8	3.7	56	5.0
		2120	869	825	22.5	7.8	5.0	72	4.4
	07-16-86	0230	883	840	18.0	7.8	4.6	60	5.8
		0715	877	848	17.5	7.6	3.7	48	4.9
	12-09-86	0940	803	777	1.5	8.2	9.5	83	1.5
		1400	793	763	3.5	8.2	9.2	85	6.2
		1730	830	717	3.5	8.1	9.0	83	4.7
		2155	815	773	2.0	8.0	9.2	82	5.2
	12-10-86	0155	760	776	0.0	7.5	8.2	69	7.6
		0615	861	--	0.0	8.2	8.6	72	6.2
	02-10-87	1030	878	847	6.0	8.2	7.5	75	4.4
		1440	837	825	12.0	8.0	6.4	74	8.7
		1810	849	843	9.5	8.0	6.3	69	6.8
		2245	850	867	7.0	8.1	6.8	70	9.4
	02-11-87	0350	841	828	6.0	8.1	7.9	79	7.7
		0645	807	822	5.0	7.9	8.4	81	8.8
	07-21-87	1100	914	906	21.0	7.9	5.0	69	.0
		1525	876	869	27.0	7.9	3.7	58	8.2
		1915	886	871	23.0	7.8	3.9	56	2.3
		1920	886	871	23.0	7.8	3.9	56	3.9
		2345	885	874	19.0	7.8	4.6	61	3.2
	07-22-87	0345	902	888	17.0	7.9	4.6	59	7.1
		0730	918	894	16.0	8.0	4.5	56	6.4
FT40.97	07-15-86	1000	--	1,070	22.0	8.0	5.9	84	4.9
		1505	1,130	1,070	22.0	8.1	5.5	78	3.9
		1925	1,130	1,080	22.5	8.1	5.1	74	8.8
		2130	1,150	1,080	22.0	8.0	5.7	81	12
	07-16-86	0245	1,150	1,070	22.5	7.6	5.1	73	5.1
		0725	1,120	1,070	22.5	7.9	4.8	69	5.0

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
F43.66	07-21-87	1030	1.0	2.0	3.0	0.51	3.7	4.2	7.2
		1445	4.3	3.8	8.1	.78	2.7	3.5	12
		1450	5.0	3.8	8.8	.76	2.6	3.4	12
		1845	4.3	4.8	9.1	.86	2.7	3.6	13
		2305	--	5.4	--	.73	2.5	3.2	--
	07-22-87	0315	1.5	5.5	7.0	.65	2.7	3.3	10
		0655	.00	3.2	2.7	.57	3.2	3.8	6.5
		0700	.00	3.4	3.2	.55	3.3	3.8	7.0
FT43.23	07-15-86	1350	.75	.45	1.2	.13	14	14	15
	12-09-86	1610	1.2	.08	1.3	.23	36	36	37
	02-10-87	1220	1.5	.07	1.6	.06	16	16	18
F40.98	07-15-86	0935	--	5.3	--	1.4	2.4	3.8	--
		0940	3.1	5.9	9.0	1.6	2.3	3.9	13
		1455	5.6	6.4	12	1.9	1.9	3.8	16
		1500	1.5	6.5	8.0	1.9	1.9	3.8	12
		1920	3.4	6.6	10	1.7	2.0	3.7	14
		2120	1.3	6.7	8.0	1.5	2.2	3.7	12
	07-16-86	0230	--	8.0	--	1.1	2.2	3.3	--
		0715	2.0	6.9	8.9	.96	2.3	3.3	12
	12-09-86	0940	.00	5.0	4.1	.09	3.7	3.8	7.9
		1400	1.0	6.3	7.3	.09	3.1	3.2	10
		1730	2.4	6.9	9.3	.12	3.0	3.1	12
		2155	1.2	8.7	9.9	.10	2.6	2.7	13
	12-10-86	0155	1.3	7.8	9.1	.08	3.0	3.1	12
		0615	2.1	6.8	8.9	.06	3.2	3.3	12
	02-10-87	1030	6.2	7.8	14	.12	3.3	3.4	17
		1440	6.0	12	18	.19	2.1	2.3	20
		1810	7.0	12	19	.22	2.4	2.6	22
		2245	.00	13	13	.16	2.4	2.6	16
	02-11-87	0350	6.0	13	19	.14	2.4	2.5	21
		0645	5.0	10	15	.13	2.7	2.8	18
	07-21-87	1100	--	--	5.1	.48	5.1	5.6	11
		1525	.20	3.1	3.3	1.8	3.4	5.2	8.5
		1915	5.8	2.1	7.9	.90	4.5	5.4	13
		1920	8.0	2.0	10	.90	4.3	5.2	15
		2345	5.5	2.6	8.1	.69	3.7	4.4	12
	07-22-87	0345	5.8	3.2	9.0	.58	4.1	4.7	14
		0730	1.9	2.2	4.1	.48	4.1	4.6	8.7
FT40.97	07-15-86	1000	2.0	24	26	.51	.09	.60	27
		1505	.00	24	24	.47	.13	.60	25
		1925	.00	23	20	.47	.13	.60	21
		2130	6.0	24	30	.29	.01	.30	30
	07-16-86	0245	--	22	--	.35	.05	.40	--
		0725	4.0	20	24	.39	.11	.50	24

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
FT40.97	12-09-86	0950	1,120	1,090	4.0	8.0	5.4	51	2.0
		1415	1,120	1,030	4.5	8.0	5.8	55	5.8
		1745	1,120	1,090	4.5	8.0	5.6	53	5.9
		2205	1,150	1,110	4.5	8.1	5.9	56	6.5
	12-10-86	0205	1,150	1,110	4.0	8.1	5.2	49	5.2
		0625	1,160	1,110	3.0	8.0	5.2	48	4.5
	02-10-87	1035	1,370	1,380	7.5	8.0	4.8	50	7.3
		1445	1,380	1,390	8.5	7.9	4.7	50	6.0
		1820	1,400	1,400	9.0	8.0	5.0	54	6.7
		2300	1,410	1,490	8.5	8.1	5.0	53	5.8
	02-11-87	0400	1,410	1,480	8.0	7.9	5.6	58	4.1
		0700	1,410	1,420	7.5	7.8	5.4	56	14
	07-21-87	1130	1,140	1,130	22.0	8.0	5.7	80	.0
		1550	1,150	1,140	21.5	8.0	5.5	77	15
		1940	1,140	1,140	21.5	7.9	5.3	75	9.2
		2400	1,140	1,160	22.0	7.9	5.3	75	17
	07-22-87	0005	1,140	1,140	22.0	7.9	5.3	75	24
		0355	1,150	1,140	22.5	8.0	5.4	77	12
		0740	1,140	1,130	22.5	7.9	5.2	74	12
F40.41	07-15-86	1310	860	831	27.5	7.7	4.8	75	4.6
		1320	860	828	27.5	7.7	4.8	75	3.3
		1720	--	777	27.0	7.7	6.5	101	.0
		1730	--	778	27.0	7.7	6.5	101	3.0
		2010	875	832	23.0	7.8	4.3	62	4.8
	07-16-86	0015	833	840	20.0	7.6	5.0	68	6.4
		0350	888	842	18.0	7.7	5.5	72	6.7
		0725	903	860	17.5	7.6	5.4	70	3.5
	12-09-86	1030	815	792	2.0	8.2	9.3	82	.0
		1435	810	778	3.5	8.2	9.1	84	5.1
		1810	816	741	3.0	8.2	9.0	82	6.2
		2225	831	780	1.5	8.1	9.2	80	6.9
	12-10-86	0230	--	780	0.0	7.8	8.7	73	8.1
		0700	765	826	0.0	8.3	8.5	72	3.6
	02-10-87	1110	901	883	7.0	8.2	7.7	79	4.3
		1515	837	816	12.0	8.0	6.6	76	11
		1855	853	840	9.0	8.2	6.7	72	7.0
		2330	850	858	6.5	7.9	7.3	74	.0
	02-11-87	0400	835	838	5.0	7.0	8.8	85	5.4
		0715	832	834	4.5	8.0	8.6	82	8.8
	07-21-87	1200	920	914	23.5	7.9	5.0	72	.0
		1620	879	871	27.0	7.8	5.2	81	10
		2000	895	895	22.0	7.9	4.2	60	1.8
		2005	895	890	22.0	7.9	4.2	60	3.8
	07-22-87	0030	897	882	19.0	7.9	4.6	61	4.4
		0430	909	898	17.0	7.8	5.0	64	9.4
		0800	923	919	16.5	7.8	5.0	63	6.7
		0805	923	921	16.5	7.8	5.0	63	7.1

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
FT40.97	12-09-86	0950	4.0	27	31	0.69	3.2	3.9	35
		1415	.00	25	22	.67	3.0	3.7	26
		1745	6.0	26	32	.77	3.8	4.6	37
		2205	3.0	27	30	.94	4.6	5.5	35
	12-10-86	0205	5.0	27	32	1.0	4.8	5.8	38
		0625	2.0	26	28	.97	4.6	5.6	34
	02-10-87	1035	2.0	26	28	1.3	11	12	40
		1445	2.0	26	28	1.6	11	13	41
		1820	1.0	26	27	1.6	11	13	40
		2300	5.0	26	31	1.9	12	14	45
	02-11-87	0400	.00	27	26	1.8	12	14	40
		0700	8.0	26	34	1.7	12	14	48
	07-21-87	1130	6.0	20	26	.61	.39	1.0	27
		1550	.00	24	24	.48	.12	.60	25
		1940	.00	22	22	.48	.00	.20	22
		2400	4.0	22	26	.43	.07	.50	26
	07-22-87	0005	9.0	16	25	.37	.00	.20	25
		0355	2.0	25	27	.58	.12	.70	28
		0740	7.0	20	27	.65	.15	.80	28
F40.41	07-15-86	1310	3.8	4.2	8.0	.86	3.6	4.5	12
		1320	5.7	4.3	10	1.7	2.9	4.6	15
		1720	1.8	6.6	8.4	1.8	2.0	3.8	12
		1730	1.9	6.9	8.8	1.9	1.9	3.8	13
		2010	--	--	--	.68	3.0	3.7	--
	07-16-86	0015	.50	7.5	8.0	1.3	2.3	3.6	12
		0350	3.4	8.6	12	1.0	2.4	3.4	15
		0725	--	8.1	--	3.2	--	--	--
	12-09-86	1030	3.6	5.2	8.8	.10	3.8	3.9	13
		1435	3.5	6.2	9.7	.09	2.7	2.8	12
		1810	3.0	6.9	9.9	.11	2.6	2.7	13
		2225	2.9	8.1	11	.12	2.8	2.9	14
	12-10-86	0230	6.1	7.9	14	.10	3.1	3.2	17
		0700	3.6	7.4	11	.09	3.2	3.3	14
	02-10-87	1110	3.8	8.2	12	.14	3.6	3.7	16
		1515	3.0	12	15	.23	2.4	2.6	18
		1855	3.0	13	16	.25	2.7	2.9	19
		2330	1.0	13	14	.19	2.6	2.8	17
	02-11-87	0400	7.0	12	19	.17	2.6	2.8	22
		0715	3.0	11	14	.16	2.8	3.0	17
	07-21-87	1200	.80	1.2	2.0	.51	5.0	5.5	7.5
		1620	4.1	2.0	6.1	1.0	4.5	5.5	12
		2000	6.4	2.7	9.1	.96	4.6	5.6	15
		2005	5.9	2.4	8.3	.94	4.4	5.3	14
	07-22-87	0030	2.9	2.6	5.5	.56	3.2	3.8	9.3
		0430	.00	3.7	3.7	.61	4.1	4.7	8.4
		0800	1.1	2.5	3.6	.53	4.6	5.1	8.7
		0805	1.1	2.6	3.7	.51	4.6	5.1	8.8

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
FT39.97	07-18-86	1100	905	845	21.0	7.8	6.7	93	0.0
	02-10-87	1145	800	800	7.5	6.9	11.6	119	3.2
	07-21-87	2025	692	671	22.5	8.2	9.3	133	2.7
F39.54	07-15-86	1035	889	840	22.0	7.9	5.3	75	5.3
		1555	829	813	29.0	7.6	4.2	68	4.2
		1950	860	828	24.5	7.7	4.2	63	4.5
		2225	877	831	21.5	7.9	4.9	69	5.0
	07-16-86	0350	884	843	18.0	7.9	5.3	70	5.8
		0920	875	856	19.5	7.7	4.4	59	6.7
	12-09-86	1100	--	787	2.0	8.2	9.2	81	.0
		1500	815	775	3.5	8.3	9.0	83	6.7
		1835	760	787	2.5	8.2	8.9	80	5.4
		2300	821	783	0.5	8.2	9.5	81	4.3
	12-10-86	0300	--	773	0.0	7.8	8.6	72	7.6
		0730	--	827	0.0	8.3	8.7	73	5.3
	02-10-87	1145	917	894	8.0	8.2	7.7	81	6.0
		1545	847	816	11.5	8.0	6.4	73	6.2
		1925	859	842	8.5	8.2	6.8	72	7.3
	02-11-87	0005	856	854	6.5	8.0	7.2	72	9.7
		0430	826	862	5.5	8.1	8.3	82	8.9
		0750	840	829	4.5	8.0	8.8	84	4.0
	07-21-87	1000	900	900	20.0	7.7	5.1	69	.0
		1410	890	881	27.5	8.0	4.6	72	.0
		1415	890	883	27.5	8.0	4.6	72	9.8
		1820	860	863	25.5	8.1	3.8	58	2.9
		2225	--	878	21.0	7.1	4.3	60	4.7
	07-22-87	0305	855	891	19.0	7.3	4.4	59	8.5
		0745	920	899	17.0	7.0	5.5	70	11
		0750	920	899	17.0	7.0	5.5	70	11
FT39.53	07-15-86	1105	1,760	1,770	21.0	7.7	4.6	64	4.6
		1110	1,760	1,780	21.0	7.7	4.6	64	5.8
		1540	1,930	1,950	21.5	7.6	3.9	55	4.8
		1545	1,930	1,950	21.5	7.6	3.9	55	4.5
		1945	1,840	1,850	21.0	7.7	3.6	51	4.4
		2235	1,770	1,780	21.0	--	4.4	62	7.4
	07-16-86	0410	1,690	1,690	20.5	7.6	--	--	4.9
		0930	1,650	1,670	21.0	7.4	2.9	40	6.1
	12-09-86	1115	1,460	1,550	12.0	7.6	5.4	62	.0
		1510	1,640	1,660	12.0	7.7	5.5	63	2.0
		1850	1,590	1,620	12.0	7.6	5.3	60	1.4
		2310	1,490	1,510	12.0	7.6	5.7	65	5.3
	12-10-86	0310	1,450	1,460	11.0	7.6	4.7	53	3.2
		0740	1,370	1,270	11.5	7.5	4.6	52	3.6

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
FT39.97	07-18-86	1100	0.59	0.11	0.70	0.02	11	11	12
	02-10-87	1145	1.2	.02	1.2	.02	7.0	7.0	8.2
	07-21-87	2025	--	<.01	1.2	.05	6.1	6.2	7.4
F39.54	07-15-86	1035	2.5	5.5	8.0	1.7	2.6	4.3	12
		1555	2.2	5.8	8.0	2.0	2.2	4.2	12
		1950	.10	5.9	6.0	1.7	2.4	4.1	10
		2225	1.3	6.7	8.0	1.5	2.6	4.1	12
	07-16-86	0350	1.2	7.8	9.0	1.1	2.6	3.7	13
		0920	2.2	6.0	8.2	.99	2.8	3.8	12
	12-09-86	1100	.90	5.0	5.9	.09	3.9	4.0	9.9
		1500	.80	6.4	7.2	.10	3.4	3.5	11
		1835	2.2	7.2	9.4	.12	3.3	3.4	13
		2300	4.5	8.5	13	.11	3.0	3.1	16
	12-10-86	0300	3.0	7.0	10	.08	3.2	3.3	13
		0730	4.1	6.9	11	.07	3.5	3.6	15
	02-10-87	1145	4.2	6.8	11	.14	3.8	3.9	15
		1545	1.0	12	13	.24	2.5	2.7	16
		1925	4.0	12	16	.24	2.8	3.0	19
	02-11-87	0005	2.0	12	14	.19	2.7	2.9	17
		0430	3.0	12	15	.17	2.7	2.9	18
		0750	3.3	9.7	13	.15	3.1	3.2	16
	07-21-87	1000	2.5	1.4	3.9	.52	5.1	5.6	9.5
		1410	7.7	.22	7.9	.41	5.4	5.8	14
		1415	2.0	.42	2.4	.55	5.4	5.9	8.3
		1820	.80	1.1	1.9	1.0	4.8	5.8	7.7
		2225	3.3	1.9	5.2	.84	5.0	5.8	11
	07-22-87	0305	1.4	2.4	3.8	.65	4.6	5.2	9.0
		0745	1.3	2.1	3.4	.53	4.8	5.3	8.7
		0750	5.0	2.1	7.1	.48	4.5	5.0	12
FT39.53	07-15-86	1105	2.0	15	17	.11	.09	.20	17
		1110	1.0	15	16	.12	.08	.20	16
		1540	--	--	20	.18	.12	.30	20
		1545	2.0	18	20	.17	.13	.30	20
		1945	2.0	18	20	.14	.06	.20	20
		2235	2.0	16	18	.12	.08	.20	18
	07-16-86	0410	--	16	--	.15	.05	.20	--
		0930	2.0	14	16	.13	.07	.20	16
	12-09-86	1115	.00	13	12	1.7	.30	2.0	14
		1510	.00	16	16	2.1	.40	2.5	18
		1850	2.0	13	15	1.7	.20	1.9	17
		2310	.00	14	12	.97	.23	1.2	13
	12-10-86	0310	.00	15	15	.59	.31	.90	16
		0740	2.0	14	16	.44	.06	.50	16

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm) Onsite	Specific conductance (µS/cm) Laboratory	Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
FT39.53	02-10-87	1155	1,640	1,700	12.0	7.6	5.4	62	3.7
		1555	--	1,660	12.0	7.5	--	--	4.3
		1935	1,590	1,280	12.0	7.5	5.0	58	10
	02-11-87	0015	1,490	1,530	12.0	7.4	5.2	60	5.9
		0440	1,440	1,500	12.0	7.4	5.5	63	3.9
		0805	1,400	1,410	12.0	7.3	6.0	69	9.5
	07-21-87	1020	1,490	1,500	20.0	7.5	5.3	72	.0
		1420	1,730	1,730	20.5	7.7	5.4	75	.0
		1825	1,710	1,680	20.5	7.8	5.0	69	4.6
		1830	1,710	1,700	20.5	7.8	5.0	69	3.2
		2240	--	1,600	20.5	7.4	5.1	70	6.5
	07-22-87	0320	1,480	1,520	22.0	7.5	4.8	68	7.4
		0800	1,490	1,470	20.0	7.3	5.5	75	9.6
FT39.52	07-15-86	1050	1,400	1,420	24.0	8.0	5.8	86	5.0
		1535	1,380	1,280	27.5	7.9	5.1	81	3.4
		1940	1,370	1,290	23.0	7.9	4.8	70	3.7
		2205	1,400	1,290	21.0	7.9	5.2	72	2.6
	07-16-86	0330	1,420	1,430	19.0	7.9	4.7	63	12
		0815	1,430	1,440	19.5	7.8	4.8	65	11
	12-09-86	1130	1,260	1,220	5.5	8.1	8.9	87	3.6
		1520	1,190	1,150	7.0	8.1	7.6	77	2.7
		1525	1,190	1,150	7.0	8.1	7.6	77	6.5
		1905	1,270	1,220	5.0	8.0	6.7	65	7.9
		2320	1,260	1,230	3.5	7.9	7.0	65	14
	12-10-86	0320	1,280	1,230	1.5	8.0	5.9	52	6.4
		0325	1,280	1,240	1.5	8.0	5.9	52	4.0
		0750	1,320	1,280	1.5	8.0	6.3	55	10
	02-10-87	1205	1,250	1,240	11.5	8.3	10.2	116	8.3
		1605	1,290	1,220	11.5	8.2	8.5	96	8.4
		1610	1,290	1,220	11.5	8.2	8.5	96	8.3
		1945	1,290	--	9.0	8.0	5.7	61	4.9
	02-11-87	0030	1,300	1,320	7.5	7.8	6.1	63	8.0
		0450	1,310	1,340	7.0	7.8	7.2	74	8.5
		0815	1,320	1,260	6.5	7.8	9.4	95	9.2
		0820	1,320	1,270	6.5	7.8	9.4	95	.0
	07-21-87	1035	1,480	1,450	21.5	7.6	6.5	91	.0
		1430	1,420	1,410	26.5	8.0	5.9	91	.0
		1840	1,430	1,460	23.5	8.0	5.2	76	4.3
		2250	1,420	1,450	20.5	7.6	5.3	73	5.8
		2315	1,420	1,470	20.5	7.6	5.3	73	6.4
	07-22-87	0335	1,440	1,500	20.0	7.7	5.6	77	6.6
		0815	1,590	1,510	18.0	7.7	6.7	88	10
F39.09	07-18-86	0950	784	740	20.0	7.7	5.4	73	.0
FT38.52	07-18-86	1030	814	770	20.0	7.8	6.2	84	.0
	12-09-86	1350	1,000	942	4.0	8.5	13.2	123	4.6
		2145	1,000	940	2.0	8.3	12.4	110	5.0
		2150	1,000	935	2.0	8.3	12.4	110	4.7

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Nonument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
FT39.53	02-10-87	1155	4.2	7.8	12	1.0	11	12	24
		1555	4.0	11	15	1.3	11	12	27
		1935	4.0	13	17	--	--	--	--
	02-11-87	0015	3.4	9.6	13	1.3	9.7	11	24
		0440	5.0	10	15	1.3	9.7	11	26
		0805	2.0	7.6	9.6	1.3	9.7	11	21
	07-21-87	1020	2.0	1.3	3.3	.72	1.3	2.0	5.3
		1420	6.7	2.8	9.5	1.4	2.9	4.3	14
		1825	1.7	4.3	6.0	1.5	1.7	3.2	9.2
		1830	.00	4.3	4.0	1.6	1.6	3.2	7.2
		2240	4.4	3.2	7.6	1.4	.80	2.2	9.8
	07-22-87	0320	4.5	2.5	7.0	1.1	.40	1.5	8.5
		0800	3.2	2.3	5.5	.90	.50	1.4	6.9
FT39.52	07-15-86	1050	1.3	3.7	5.0	.97	5.0	6.0	11
		1535	1.5	3.5	5.0	1.2	5.4	6.6	12
		1940	1.5	3.5	5.0	1.1	5.1	6.2	11
		2205	1.1	3.6	4.7	.94	5.5	6.4	11
	07-16-86	0330	--	6.0	--	.87	4.5	5.4	--
		0815	1.6	5.4	7.0	.91	4.5	5.4	12
	12-09-86	1130	8.5	9.5	18	.45	6.1	6.6	25
		1520	1.0	10	11	.49	5.3	5.8	17
		1525	.00	12	12	.49	6.2	6.7	19
		1905	3.2	9.8	13	.42	5.7	6.1	19
		2320	3.0	12	15	.42	5.9	6.3	21
	12-10-86	0320	5.0	11	16	.38	5.9	6.3	22
		0325	1.0	11	12	.37	5.8	6.2	18
		0750	1.0	13	14	.34	5.8	6.1	20
	02-10-87	1205	5.1	8.9	14	.41	4.8	5.2	19
		1605	3.0	12	15	.48	5.3	5.8	21
		1610	5.0	12	17	.48	5.3	5.8	23
		1945	1.0	10	11	--	--	--	--
	02-11-87	0030	3.0	13	16	.34	5.7	6.0	22
		0450	.00	12	12	.37	5.4	5.8	18
		0815	4.0	11	15	.37	5.3	5.7	21
		0820	2.0	11	13	.36	5.4	5.8	19
	07-21-87	1035	3.6	7.4	11	1.1	5.2	6.3	17
		1430	.20	4.5	4.7	1.4	5.2	6.6	11
		1840	3.9	3.6	7.5	1.4	4.9	6.3	14
		2250	.90	3.3	4.2	1.1	5.2	6.3	10
		2315	1.9	2.4	4.3	1.1	5.1	6.2	10
	07-22-87	0335	4.1	3.1	7.2	1.1	5.5	6.6	14
		0815	3.0	6.2	9.2	1.1	5.4	6.5	16
F39.09	07-18-86	0950	2.1	2.7	4.8	.71	3.4	4.1	8.9
FT38.52	07-18-86	1030	1.7	2.6	4.3	.69	3.4	4.1	8.4
	12-09-86	1350	1.1	.21	1.3	.04	3.6	3.6	4.9
		2145	1.0	.25	1.3	.04	3.7	3.7	5.0
		2150	1.2	.22	1.4	.04	3.7	3.7	5.1

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
FT38.52	02-10-87	1030	1,020	1,020	5.0	7.5	9.7	93	1.9
		1035	1,020	1,010	5.0	7.5	9.7	93	1.5
		2100	1,010	987	6.5	6.9	9.3	93	1.3
F37.43	07-15-86	1140	942	906	24.5	7.8	5.1	76	4.3
		1615	910	870	29.0	7.8	4.3	70	4.1
		1950	899	877	24.0	7.7	3.8	56	4.5
		2315	939	892	20.5	7.8	4.7	65	3.8
	07-16-86	0510	942	892	17.5	7.7	5.5	71	5.0
	12-09-86	0845	875	824	2.5	7.7	10.2	91	3.0
		1335	871	880	4.0	8.0	9.9	92	6.2
		1810	873	839	2.5	7.8	9.7	87	9.2
		2350	877	831	0.5	7.9	11.4	96	7.7
	12-10-86	0330	782	812	0.0	7.8	11.4	95	7.1
		0645	--	760	0.0	8.4	11.4	95	2.9
	02-10-87	0835	895	863	4.5	7.9	9.4	90	8.2
		1220	930	892	8.5	8.0	8.2	86	5.0
		1605	883	859	10.5	7.9	7.2	80	8.8
		2015	909	882	8.0	7.9	7.9	82	8.4
	02-11-87	0005	909	876	6.0	8.0	8.7	86	10
		0330	896	843	5.0	7.9	8.7	84	10
	07-21-87	1120	945	945	23.5	7.6	5.2	75	.0
		1510	925	939	29.0	7.9	5.5	89	9.8
		1515	925	937	29.0	7.9	5.5	89	.0
		1905	909	920	25.0	7.7	4.8	72	4.0
		2340	875	928	20.5	7.8	4.9	67	5.6
	07-22-87	0405	945	928	16.5	7.4	5.4	68	8.5
		0840	960	944	17.0	7.0	5.8	74	11
FT36.33	07-15-86	1415	1,410	1,450	25.0	8.6	7.5	113	.7
	12-09-86	1315	3,780	3,740	0.0	8.6	11.1	94	.3
	02-10-87	1000	2,600	2,700	1.5	7.3	11.1	97	1.0
	07-21-87	1945	818	798	17.5	7.3	6.3	81	.3
		1950	818	794	17.5	7.3	6.3	81	<.1
	07-22-87	0555	1,220	1,180	15.0	7.3	5.8	71	.2
		0600	1,220	1,220	15.0	7.3	5.8	71	1.1
FT35.20	07-15-86	1300	1,570	1,580	24.0	7.9	6.5	96	1.1
	12-09-86	1230	1,200	1,090	8.0	7.7	8.6	89	.1
		1240	1,200	1,100	8.0	7.7	8.6	89	.5
		2110	1,180	1,090	6.5	7.7	7.5	74	.4
	02-10-87	0940	1,160	1,150	7.5	7.3	9.0	92	1.0
		2040	1,200	1,140	6.5	6.9	7.2	72	.5
		2045	1,200	1,130	6.5	6.9	7.2	72	2.5
	07-21-87	1920	1,590	1,570	15.0	7.2	4.8	59	<.1
	07-22-87	0530	1,600	1,560	12.5	6.9	3.7	43	.4

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
FT38.52	02-10-87	1030	1.3	0.90	2.2	0.07	3.5	3.6	5.8
		1035	.91	.89	1.8	.07	3.5	3.6	5.4
		2100	1.0	.79	1.8	.08	3.5	3.6	5.4
F37.43	07-15-86	1140	1.0	3.6	4.6	1.4	3.0	4.4	9.0
		1615	1.9	3.0	4.9	1.9	3.2	5.1	10
		1950	2.2	3.8	6.0	1.7	2.8	4.5	10
		2315	1.7	4.3	6.0	1.4	3.1	4.5	10
	07-16-86	0510	--	5.3	--	.95	3.1	4.0	--
	12-09-86	0845	.00	6.0	6.0	.09	3.7	3.8	9.8
		1335	1.4	3.8	5.2	.08	3.0	3.1	8.3
		1810	1.9	6.1	8.0	.13	3.7	3.8	12
		2350	3.0	6.2	9.2	.09	3.4	3.5	13
	12-10-86	0330	3.8	5.9	9.7	.06	3.5	3.6	13
		0645	.00	6.3	5.1	.06	3.5	3.6	8.7
	02-10-87	0835	.00	10	9.9	.14	3.5	3.6	13
		1220	4.8	6.2	11	.17	3.9	4.1	15
		1605	7.5	9.5	17	.25	3.1	3.3	20
		2015	10	11	21	.26	3.3	3.6	25
	02-11-87	0005	9.0	12	21	.20	3.3	3.5	24
		0330	4.0	12	16	.17	3.1	3.3	19
	07-21-87	1120	2.9	.41	3.3	.29	4.0	4.3	7.6
		1510	.96	.14	1.1	.25	4.9	5.2	6.3
		1515	3.4	.13	3.5	.24	4.9	5.1	8.6
		1905	3.5	.31	3.8	.74	5.0	5.7	9.5
		2340	4.5	.44	4.9	.58	4.8	5.4	10
	07-22-87	0405	1.1	.65	1.7	.52	4.6	5.1	6.8
		0840	5.8	.50	6.3	.38	4.1	4.5	11
FT36.33	07-15-86	1415	.28	.02	.30	<.01	--	<.10	--
	12-09-86	1315	.36	.04	.40	<.01	--	<.10	--
	02-10-87	1000	.36	.04	.40	<.01	--	<.10	--
	07-21-87	1945	--	<.01	<.20	<.01	--	<.10	--
		1950	--	<.01	.40	<.01	--	<.10	--
	07-22-87	0555	--	<.01	.70	<.01	--	<.10	--
		0600	--	<.01	.50	<.01	--	<.10	--
FT35.20	07-15-86	1300	.50	.10	.60	.03	2.1	2.1	2.7
	12-09-86	1230	.50	.40	.90	.02	1.5	1.5	2.4
		1240	.22	.38	.60	.02	1.5	1.5	2.1
		2110	.21	.39	.60	.02	1.5	1.5	2.1
	02-10-87	0940	.80	.40	1.2	.02	1.3	1.3	2.5
		2040	.67	.43	1.1	.02	1.4	1.4	2.5
		2045	.44	.46	.90	.02	1.3	1.3	2.2
	07-21-87	1920	.38	.02	.40	.01	1.7	1.7	2.1
	07-22-87	0530	.47	.03	.50	.02	1.7	1.7	2.2

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
F34.27	07-15-86	1220	915	923	27.5	7.8	4.5	71	3.7
		1640	977	930	29.5	7.9	4.6	75	4.9
		2020	834	887	24.0	7.6	3.4	50	3.2
	07-16-86	0015	925	901	20.0	6.3	5.3	72	3.4
		0535	960	912	17.5	7.7	4.8	62	4.0
	12-09-86	0930	917	860	1.5	7.8	9.7	84	2.9
		1415	936	917	3.5	7.9	9.2	84	2.9
		1420	936	922	3.5	7.9	9.2	84	2.2
		1900	913	858	1.5	7.6	9.5	82	7.7
	12-10-86	0020	880	864	0.0	8.0	11.7	97	3.2
		0350	807	894	0.0	7.9	10.7	89	7.6
		0355	807	870	0.0	7.9	10.7	89	7.1
		0710	--	890	0.0	7.7	10.5	87	3.5
	02-10-87	0910	837	920	4.0	7.8	8.2	77	8.2
		1245	973	924	9.5	7.9	6.8	74	4.5
		1255	973	907	9.5	7.9	6.8	74	4.6
		1635	936	900	10.0	7.8	6.2	67	6.9
		2050	932	929	7.5	7.9	8.0	82	7.5
	02-11-87	0035	945	913	5.0	7.9	7.5	72	6.6
		0037	945	908	5.0	7.9	7.5	72	7.9
		0410	920	895	4.5	7.8	7.6	72	7.1
	07-21-87	1145	942	954	26.0	7.8	5.9	90	.0
		1545	955	962	30.0	8.1	5.6	92	4.7
		1945	935	942	23.0	7.9	5.7	82	1.9
	07-22-87	0015	930	952	21.0	8.0	5.9	82	4.8
		0445	970	949	16.5	7.8	6.8	86	2.8
		0910	985	960	19.0	7.3	6.6	88	8.9
FT34.26	07-15-86	1235	1,580	1,620	22.5	8.5	3.0	43	>11
		1650	1,580	1,610	22.0	8.5	2.7	38	>11
		2030	1,580	1,620	21.5	8.4	1.5	21	>11
	07-16-86	0005	1,570	1,620	21.5	--	--	--	>12
		0545	1,590	1,610	21.5	8.3	4.2	59	>11
	12-09-86	0955	1,570	1,590	2.0	8.2	11.4	100	13
		1430	1,570	1,600	2.5	8.1	11.5	103	18
		1435	1,570	1,590	2.5	8.1	11.5	103	20
		1915	1,570	1,590	2.0	8.2	11.3	100	19
	12-10-86	0035	1,590	1,600	2.0	8.4	11.8	104	19
		0405	1,580	1,600	2.0	8.2	11.2	99	22
		0410	1,580	1,600	2.0	8.2	11.2	99	21
		0725	--	1,610	2.0	8.2	11.7	103	19
	02-10-87	0920	1,520	1,550	4.5	7.7	3.8	36	>40
		1300	1,580	1,590	5.5	7.7	4.1	40	26
		1310	1,580	1,590	5.5	7.7	4.1	40	27
		1645	1,560	1,600	5.5	7.7	4.1	40	24
		2100	1,530	1,650	5.0	7.8	5.6	54	31
	02-11-87	0050	1,620	1,560	4.5	7.8	5.1	49	36
		0053	1,620	1,610	4.5	7.8	5.1	49	>37
		0420	1,560	1,550	4.0	7.6	4.2	39	>37

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
F34.27	07-15-86	1220	1.0	2.1	3.1	1.3	3.5	4.8	7.9
		1640	--	--	2.1	1.7	3.8	5.5	7.6
		2020	1.0	1.8	2.8	1.9	3.4	5.3	8.1
	07-16-86	0015	1.1	2.1	3.2	1.4	3.5	4.9	8.1
		0535	--	--	--	--	--	--	--
	12-09-86	0930	2.9	5.4	8.3	.06	3.9	4.0	12
		1415	.40	3.5	3.9	.07	4.1	4.2	8.1
		1420	1.1	3.3	4.4	.06	3.7	3.8	8.2
		1900	.80	5.2	6.0	.08	4.0	4.1	10
	12-10-86	0020	.00	5.3	4.9	.05	3.8	3.8	8.7
		0350	.10	5.3	5.4	.04	3.8	3.8	9.2
		0355	.00	5.6	5.0	.05	3.8	3.9	8.9
		0710	2.0	5.6	7.6	.04	4.0	4.0	12
	02-10-87	0910	1.5	9.5	11	.10	3.5	3.6	15
		1245	2.8	6.6	9.4	.15	4.1	4.3	14
		1255	2.4	5.8	8.2	.15	4.3	4.4	13
		1635	6.0	8.0	14	.23	4.0	4.2	18
		2050	2.0	9.0	11	.21	3.8	4.0	15
	02-11-87	0035	7.0	10	17	.16	3.8	4.0	21
		0037	4.2	9.8	14	.16	3.8	4.0	18
		0410	4.0	10	14	.13	3.7	3.8	18
	07-21-87	1145	.64	.06	.70	.08	4.1	4.2	4.9
		1545	.47	.03	.50	.05	4.1	4.1	4.6
		1945	1.2	.02	1.2	.11	4.8	4.9	6.1
	07-22-87	0015	.75	.05	.80	.10	4.8	4.9	5.7
		0445	.85	.05	.90	.14	4.6	4.7	5.6
		0910	1.1	.04	1.1	.14	4.3	4.4	5.5
FT34.26	07-15-86	1235	--	.93	--	1.3	.30	1.6	--
		1650	4.5	1.1	5.6	1.1	.20	1.3	6.9
		2030	10	.78	11	1.3	.20	1.5	12
	07-16-86	0005	11	1.1	12	.85	.25	1.1	13
		0545	9.1	.54	9.6	1.2	.30	1.5	11
	12-09-86	0955	11	22	33	.09	.21	.30	33
		1430	8.0	20	28	.10	.20	.30	28
		1435	7.0	21	28	.10	.20	.30	28
		1915	8.0	21	29	.10	.20	.30	29
	12-10-86	0035	9.0	20	29	.10	.20	.30	29
		0405	8.0	19	27	.10	.20	.30	27
		0410	4.0	21	25	.10	.20	.30	25
		0725	8.0	21	29	.10	.20	.30	29
	02-10-87	0920	2.0	27	29	.04	--	<.10	--
		1300	9.0	26	35	.04	.06	.10	35
		1310	2.0	26	28	.04	.06	.10	28
		1645	.00	28	28	.04	.16	.20	28
		2100	1.0	28	29	.05	.25	.30	29
	02-11-87	0050	1.0	28	29	.05	.25	.30	29
		0053	.00	28	28	.05	.15	.20	28
		0420	.00	28	28	.06	.14	.20	28

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Nonument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
FT34.26	07-21-87	1200	1,550	1,600	22.5	8.4	3.4	48	0.0
		1555	1,520	1,600	25.0	8.9	5.3	79	.0
		1950	1,530	1,580	25.0	8.9	5.2	78	>16
	07-22-87	0025	1,510	1,580	24.0	8.5	3.9	58	5.0
		0500	1,610	1,610	20.5	8.7	2.9	40	>18
		0920	1,570	1,630	22.0	8.5	2.8	40	>17
		0925	1,570	1,650	22.0	8.5	2.8	40	>18
F32.91	07-18-86	0905	926	874	18.0	7.9	5.3	69	.0
		0915	909	875	18.5	7.9	5.2	68	.0
F31.38	07-15-86	1320	1,060	1,070	29.0	7.7	3.8	61	6.5
		1720	1,160	1,070	27.0	7.7	3.7	58	5.0
		2105	978	1,010	21.5	7.6	3.3	46	10
	07-16-86	0100	1,080	1,020	19.0	--	5.4	72	3.6
		0615	1,000	1,040	17.0	7.6	5.4	69	4.9
	12-09-86	1045	906	915	1.5	7.8	10.4	90	4.1
		1520	988	961	3.5	7.8	9.5	87	3.5
		2045	950	892	1.0	7.9	10.2	87	4.4
	12-10-86	0115	889	846	0.0	7.9	11.5	95	4.9
		0440	980	910	0.0	7.8	10.8	90	4.8
		0750	--	813	0.0	8.0	9.5	79	2.9
	02-10-87	0955	974	985	5.5	8.0	8.2	80	6.9
		1345	1,000	997	11.0	7.9	6.9	77	4.5
		1720	984	976	9.5	7.9	7.1	76	6.4
		2145	970	955	6.0	8.0	8.3	82	8.5
	02-11-87	0125	977	948	4.5	7.9	8.1	77	6.4
		0445	960	934	4.0	7.9	8.1	76	8.1
	07-21-87	1240	1,280	1,320	25.5	7.4	5.6	84	.0
		1630	1,300	1,320	25.5	7.7	5.5	83	4.8
		1635	1,300	1,320	25.5	7.7	5.5	83	1.4
		2030	1,090	1,110	21.0	7.4	6.0	83	1.4
	07-22-87	0115	1,110	1,130	19.0	7.1	5.7	76	4.1
		0545	1,120	1,180	16.0	7.6	6.8	85	7.4
		0550	1,120	1,200	16.0	7.6	6.8	85	7.8
		0910	1,220	1,180	19.5	8.2	6.5	87	9.4
FT30.32	07-15-86	1805	1,910	1,930	30.0	8.6	5.5	91	1.0
	07-21-87	1830	1,800	1,750	21.5	8.1	7.2	100	.2
	07-22-87	0440	1,980	1,810	20.0	7.9	6.0	85	.3
F29.47	07-15-86	1340	1,110	1,060	30.0	7.9	4.2	69	6.6
		1345	1,110	1,050	30.0	7.9	4.2	69	6.3
		1740	1,170	1,110	27.0	7.9	4.4	68	5.0
		1745	1,170	1,110	27.0	7.9	4.4	68	3.5
		2135	1,050	1,040	22.0	7.7	4.4	62	7.9
	07-16-86	0130	1,110	1,050	19.0	7.1	6.0	80	4.1
		0630	1,120	1,060	17.0	7.9	5.9	75	13

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
FT34.26	07-21-87	1200	11	2.8	14	0.42	0.08	0.50	14
		1555	14	2.1	16	.60	.00	.60	17
		1950	18	2.0	20	.66	.04	.70	21
	07-22-87	0025	18	2.1	20	.64	.06	.70	21
		0500	13	3.0	16	.47	.03	.50	16
		0920	14	2.7	17	.42	.00	.40	17
		0925	17	2.8	20	.41	.00	.40	20
F32.91	07-18-86	0905	6.8	3.2	10	.85	3.8	4.7	15
		0915	3.0	3.3	6.3	.85	3.9	4.8	11
F31.38	07-15-86	1320	1.9	1.5	3.4	.89	3.7	4.6	8.0
		1720	1.1	.58	1.7	1.1	3.7	4.8	6.5
		2105	3.9	1.1	5.0	1.5	3.9	5.4	10
	07-16-86	0100	1.8	.91	2.7	1.1	3.7	4.8	7.5
		0615	1.6	1.4	3.0	.83	3.7	4.5	7.5
	12-09-86	1045	3.9	3.9	7.8	.05	3.7	3.7	11
		1520	1.0	3.1	4.1	.08	4.4	4.5	8.6
		2045	1.1	4.1	5.2	.07	4.1	4.2	9.4
	12-10-86	0115	3.0	4.5	7.5	.05	4.1	4.1	12
		0440	.90	4.1	5.0	.05	4.1	4.2	9.2
		0750	1.5	4.0	5.5	.04	3.8	3.8	9.3
	02-10-87	0955	6.8	7.2	14	.09	3.8	3.9	18
		1345	12	6.2	18	.20	4.4	4.6	23
		1720	6.2	4.8	11	.26	4.7	5.0	16
		2145	3.0	8.0	11	.24	4.2	4.4	15
	02-11-87	0125	11	7.2	18	.16	4.1	4.3	22
		0445	--	--	17	.14	4.1	4.2	21
	07-21-87	1240	.46	.04	.50	.03	3.7	3.7	4.2
		1630	.56	.04	.60	.02	3.5	3.5	4.1
		1635	1.2	.02	1.2	.02	3.7	3.7	4.9
		2030	1.1	.02	1.1	.03	4.1	4.1	5.2
	07-22-87	0115	.66	.04	.70	.04	4.0	4.0	4.7
		0545	.45	.05	.50	.04	3.9	3.9	4.4
		0550	.85	.05	.90	.04	3.9	3.9	4.8
		0910	1.4	.03	1.4	.05	3.7	3.7	5.1
FT30.32	07-15-86	1805	.33	.07	.40	.01	--	<.10	--
	07-21-87	1830	--	.03	<.20	<.01	--	.60	--
	07-22-87	0440	.63	.07	.70	<.01	--	.60	1.3
F29.47	07-15-86	1340	1.8	1.0	2.8	.71	4.1	4.8	7.6
		1345	1.4	1.0	2.4	.71	4.1	4.8	7.2
		1740	1.6	.30	1.9	.74	3.8	4.5	6.4
		1745	1.7	.30	2.0	.73	3.9	4.6	6.6
		2135	1.1	.39	1.5	1.1	4.2	5.3	6.8
	07-16-86	0130	1.7	.42	2.1	.89	3.8	4.7	6.8
		0630	1.2	.69	1.9	.72	3.9	4.6	6.5

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
F29.47	12-09-86	1120	988	934	1.5	7.9	10.6	91	6.4
		1130	988	941	1.5	7.9	10.6	91	4.4
		1555	1,050	975	3.5	8.0	9.5	87	4.8
		2110	982	918	0.5	8.0	11.5	97	5.3
	12-10-86	0130	799	923	0.0	7.9	11.4	95	5.7
		0135	799	926	0.0	7.9	11.4	95	5.9
		0500	820	922	0.0	7.9	11.7	97	4.4
		0810	--	852	0.0	8.1	11.7	97	3.2
	02-10-87	1020	1,010	987	5.5	8.0	8.6	84	8.0
		1030	1,010	990	5.5	8.0	8.6	84	8.3
		1415	1,040	1,010	11.5	7.9	7.2	81	6.3
		1800	1,030	999	9.0	7.8	7.0	74	5.9
		2215	1,000	975	5.5	7.6	8.8	85	8.6
	02-11-87	0150	1,010	983	4.0	8.2	8.5	79	6.0
		0510	990	969	3.0	8.0	9.1	83	6.5
		0513	990	961	3.0	8.0	9.1	83	6.7
	07-21-87	1320	1,180	1,190	28.0	8.2	6.0	95	1.6
		1700	1,230	1,230	27.0	8.2	6.1	95	.0
		2050	1,190	1,190	20.5	7.7	6.5	89	.8
		2055	1,190	1,180	20.5	7.7	6.5	89	.5
	07-22-87	0145	1,150	1,170	18.0	7.1	6.3	82	4.9
		0615	1,200	1,200	15.5	7.6	7.2	89	7.9
		0945	--	1,100	20.0	8.2	7.2	97	10
		0950	--	1,200	20.0	8.2	7.2	97	10
F25.25	12-09-86	1220	--	876	1.5	7.9	10.5	90	4.5
		1640	1,010	977	1.5	8.0	10.0	86	4.5
		2150	963	948	0.0	8.1	11.5	95	5.7
	12-10-86	0215	799	880	0.0	8.0	11.2	92	2.1
		0535	--	1,000	0.0	7.9	11.7	96	6.0
		0830	--	897	0.0	8.2	10.7	88	2.5
	02-10-87	1100	1,010	1,000	6.0	8.0	8.6	84	6.9
		1445	1,040	1,000	11.0	7.8	6.4	71	5.7
		1830	1,060	1,030	9.0	7.9	6.7	70	5.2
		2245	1,000	993	5.5	--	7.6	74	7.2
	02-11-87	0220	1,020	1,040	4.0	7.9	8.3	77	5.1
		0540	1,020	987	2.5	8.0	9.3	83	6.0
FT25.15	12-09-86	1050	1,990	1,980	3.0	8.0	9.9	89	.2
	02-10-87	0845	1,830	1,910	2.5	6.8	9.5	85	1.4
FT24.20	12-09-86	0945	1,200	1,100	10.0	7.6	7.5	80	1.3
		2015	1,190	1,090	8.0	7.5	6.7	68	.4
	02-10-87	0800	1,130	1,120	8.0	6.3	7.5	77	.8
		1950	1,130	1,170	9.0	7.0	6.4	67	.8
F20.85	12-09-86	1130	1,040	972	1.5	8.7	11.2	97	5.8
		1530	1,060	1,020	2.0	8.4	11.8	103	4.0
		2315	1,080	1,020	0.5	8.0	12.5	105	3.4
	12-10-86	0250	1,020	1,020	0.0	7.9	13.5	112	4.5
		0600	1,100	1,070	0.0	8.2	13.5	112	4.8

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
F29.47	12-09-86	1120	1.0	4.0	5.0	0.05	3.7	3.7	8.7
		1130	.40	4.0	4.4	.06	4.2	4.3	8.7
		1555	.40	3.4	3.8	.08	4.5	4.6	8.4
		2110	1.3	3.1	4.4	.06	4.3	4.4	8.8
	12-10-86	0130	.70	3.3	4.0	.04	3.6	3.6	7.6
		0135	.50	4.0	4.5	.05	4.1	4.2	8.7
		0500	.70	4.2	4.9	.04	3.9	3.9	8.8
		0810	1.1	3.6	4.7	.03	3.5	3.5	8.2
	02-10-87	1020	4.3	7.7	12	.09	3.9	4.0	16
		1030	4.3	6.7	11	.09	4.0	4.1	15
		1415	3.3	5.2	8.5	.18	4.6	4.8	13
		1800	9.8	4.2	14	.25	4.9	5.2	19
		2215	2.0	7.4	9.4	.22	4.4	4.6	14
	02-11-87	0150	5.7	6.3	12	.15	4.4	4.6	17
		0510	8.2	6.8	15	.12	4.3	4.4	19
		0513	6.4	8.6	15	.12	4.3	4.4	19
	07-21-87	1320	1.2	.06	1.3	.02	3.3	3.3	4.6
		1700	.28	.02	.30	.01	3.0	3.0	3.3
		2050	.66	.04	.70	.01	3.3	3.3	4.0
		2055	1.3	.01	1.3	.01	--	3.3	4.6
	07-22-87	0145	1.2	.05	1.2	.02	3.7	3.7	4.9
		0615	.45	.05	.50	.02	3.4	3.4	3.9
		0945	.97	.03	1.0	.02	3.2	3.2	4.2
		0950	.77	.03	.80	.02	3.2	3.2	4.0
F25.25	12-09-86	1220	3.8	2.7	6.5	.04	3.6	3.6	10
		1640	.60	2.6	3.2	.07	4.7	4.8	8.0
		2150	1.2	2.2	3.4	.06	4.7	4.8	8.2
	12-10-86	0215	1.0	2.7	3.7	.04	4.0	4.0	7.7
		0535	.90	2.8	3.7	.03	3.7	3.7	7.4
		0830	.00	4.5	3.9	.04	4.8	4.8	8.7
	02-10-87	1100	5.8	6.2	12	.08	4.4	4.5	16
		1445	--	4.9	--	.18	4.8	5.0	--
		1830	8.4	3.6	12	.21	5.4	5.6	18
		2245	12	4.2	16	.16	5.0	5.2	21
	02-11-87	0220	8.0	5.0	13	.12	5.1	5.2	18
		0540	7.6	5.4	13	.10	4.9	5.0	18
FT25.15	12-09-86	1050	.24	.06	.30	.01	.29	.30	.60
	02-10-87	0845	.63	.07	.70	.02	.58	.60	1.3
FT24.20	12-09-86	0945	.37	.03	.40	.01	.99	1.0	1.4
		2015	.57	.03	.60	.01	.99	1.0	1.6
	02-10-87	0800	.26	.04	.30	.01	1.4	1.4	1.7
		1950	.35	.05	.40	.01	1.4	1.4	1.8
F20.85	12-09-86	1130	1.7	2.2	3.9	.05	3.9	4.0	7.9
		1530	3.7	1.9	5.6	.05	3.7	3.7	9.3
		2315	1.4	1.4	2.8	.06	4.8	4.9	7.7
	12-10-86	0250	1.4	1.9	3.3	.06	4.9	5.0	8.3
		0600	1.8	2.1	3.9	.06	5.0	5.1	9.0

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm) Onsite	Specific conductance (µS/cm) Laboratory	Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
F20.85	02-10-87	1040	1,030	1,020	5.0	8.4	9.5	90	7.0
		1515	1,070	1,010	11.0	8.1	7.0	77	5.3
		1925	1,110	1,070	8.0	--	8.6	88	4.3
		2215	1,070	1,040	5.5	8.0	11.2	107	6.7
	02-11-87	0130	1,030	1,010	3.5	8.0	10.0	91	7.0
		0400	1,030	1,030	2.5	8.0	10.6	94	6.6
F15.00	12-09-86	1055	1,090	1,020	1.5	8.5	11.1	95	7.7
		1100	1,090	1,010	1.5	8.5	11.1	95	3.9
		1510	1,070	996	2.0	8.4	11.3	99	4.6
		1900	1,080	1,000	0.0	7.8	13.5	111	2.8
		2240	1,060	1,040	0.5	7.9	13.2	110	3.5
	12-10-86	0215	1,140	1,060	0.0	8.2	13.6	112	9.2
		0230	1,140	1,110	0.0	8.3	13.6	112	4.3
		0535	1,090	1,090	0.0	7.8	13.6	112	5.0
	02-10-87	1000	1,040	1,040	4.0	8.6	9.6	88	5.4
		1005	1,040	1,040	4.0	8.6	9.6	88	5.8
		1430	1,060	1,030	10.5	8.2	8.6	93	8.0
		1825	1,090	1,060	8.0	8.2	8.2	84	3.8
		2145	1,100	1,080	5.5	8.1	7.9	76	4.2
		2150	1,100	1,070	5.5	8.1	7.9	76	4.8
	02-11-87	0100	1,080	1,060	3.5	8.1	10.2	93	5.4
		0330	1,060	1,030	2.5	8.1	10.3	91	6.4
F10.90	12-09-86	1020	1,140	1,040	1.5	8.6	11.2	96	4.1
		1435	1,110	1,040	3.5	8.4	10.1	92	4.3
		1830	1,110	1,030	1.0	8.0	12.2	103	3.4
		2200	1,130	1,040	0.0	8.0	12.6	103	3.5
	12-10-86	0150	1,080	1,080	0.0	8.0	13.3	109	3.2
		0510	1,200	1,120	0.0	7.9	13.6	112	3.8
	02-10-87	0915	1,070	1,070	2.5	7.9	10.4	91	5.8
		1355	1,100	1,040	10.5	8.3	7.7	83	7.9
		1745	1,090	1,070	9.0	8.1	8.0	83	3.3
		2115	1,120	1,090	6.5	8.1	9.5	93	4.7
	02-11-87	0030	1,130	1,080	4.5	8.5	8.3	77	3.6
		0315	1,110	1,060	3.0	8.1	10.2	91	6.0
F6.95	12-09-86	0945	1,150	1,070	0.0	8.4	14.2	116	2.9
		1415	1,150	1,040	2.5	8.6	11.9	105	4.0
		1800	1,140	1,050	1.0	8.2	11.1	93	3.7
		1805	1,140	1,050	1.0	8.2	11.1	93	5.1
		2140	1,140	1,060	0.0	7.9	13.9	113	5.2
	12-10-86	0130	1,160	1,160	0.0	8.2	13.8	113	3.1
		0445	1,230	1,140	0.0	8.0	13.5	110	3.5
		0450	1,230	1,090	0.0	8.0	13.5	110	5.5
	02-10-87	0835	1,090	1,090	1.5	8.6	12.0	102	6.1
		1315	1,120	1,180	9.5	8.4	8.2	86	4.2
		1715	1,120	1,100	9.0	8.3	7.4	77	5.0
		1720	1,120	1,100	9.0	8.3	7.4	77	6.1
		2100	1,140	1,120	6.5	8.1	11.8	114	4.5
		2400	1,150	1,120	4.0	8.4	8.9	82	3.8
	02-11-87	0245	1,150	1,120	3.0	8.4	9.2	81	4.4
		0250	1,150	1,120	3.0	8.4	9.2	82	4.5

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
F20.85	02-10-87	1040	4.9	5.0	9.9	0.07	4.7	4.8	15
		1515	3.4	4.3	7.7	.18	5.0	5.2	13
		1925	1.6	3.0	4.6	.19	5.4	5.6	10
		2215	3.4	2.5	5.9	.17	5.6	5.8	12
	02-11-87	0130	1.9	2.9	4.8	.12	5.5	5.6	10
		0400	5.0	3.5	8.5	.10	5.1	5.2	14
F15.00	12-09-86	1055	1.6	1.5	3.1	.06	4.6	4.7	7.8
		1100	1.5	1.3	2.8	.05	4.3	4.3	7.1
		1510	1.4	1.7	3.1	.06	4.5	4.6	7.7
		1900	.80	1.5	2.3	.06	4.5	4.6	6.9
		2240	1.1	1.2	2.3	.05	4.6	4.7	7.0
	12-10-86	0215	1.2	1.1	2.3	.05	4.6	4.6	6.9
		0230	1.7	1.1	2.8	.05	4.9	4.9	7.7
		0535	.90	1.6	2.5	.06	5.2	5.3	7.8
	02-10-87	1000	2.3	3.2	5.5	.06	5.1	5.2	11
		1005	2.1	3.2	5.3	.06	5.1	5.2	10
		1430	--	3.4	--	.14	5.3	5.4	--
		1825	1.5	2.7	4.2	.19	5.6	5.8	10
		2145	1.6	2.0	3.6	.16	5.6	5.8	9.4
		2150	1.7	2.0	3.7	.15	5.6	5.8	9.5
	02-11-87	0100	2.3	1.4	3.7	.12	6.1	6.2	9.9
		0330	3.2	1.4	4.6	.10	5.9	6.0	11
F10.90	12-09-86	1020	1.5	1.0	2.5	.06	4.6	4.7	7.2
		1435	1.4	1.1	2.5	.06	4.5	4.6	7.1
		1830	.60	1.1	1.7	.06	4.4	4.5	6.2
		2200	.74	.96	1.7	.05	4.6	4.6	6.3
	12-10-86	0150	5.9	.88	6.8	.05	4.8	4.8	12
		0510	.90	1.0	1.9	.06	5.0	5.1	7.0
	02-10-87	0915	2.4	1.9	4.3	.05	5.6	5.6	9.9
		1355	1.1	2.5	3.6	.11	5.5	5.6	9.2
		1745	2.4	2.1	4.5	.16	7.0	7.2	12
		2115	2.1	1.4	3.5	.15	5.9	6.0	9.5
	02-11-87	0030	2.3	1.0	3.3	.11	6.1	6.2	9.5
		0315	2.9	.93	3.8	.09	6.1	6.2	10
F6.95	12-09-86	0945	.80	1.0	1.8	.06	4.6	4.7	6.5
		1415	1.6	.71	2.3	.05	4.6	4.6	6.9
		1800	1.5	.97	2.5	.06	4.5	4.6	7.1
		1805	1.4	.95	2.3	.06	4.5	4.6	6.9
		2140	.90	1.0	1.9	.06	4.5	4.6	6.5
	12-10-86	0130	.96	.74	1.7	.04	3.9	3.9	5.6
		0445	1.4	.77	2.2	.06	4.9	5.0	7.2
		0450	1.1	.78	1.9	.06	4.8	4.9	6.8
	02-10-87	0835	2.0	.90	2.9	.05	5.9	6.0	8.9
		1315	3.1	1.6	4.7	.08	5.6	5.7	10
		1715	2.6	1.4	4.0	.15	6.1	6.2	10
		1720	2.7	1.4	4.1	.15	6.1	6.2	10
		2100	2.7	1.2	3.9	.15	6.1	6.3	10
		2400	2.7	.93	3.6	.11	6.1	6.2	9.8
	02-11-87	0245	2.1	.71	2.8	.08	6.0	6.1	8.9
		0250	2.8	.72	3.5	.08	6.0	6.1	9.6

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Specific conductance (µS/cm)		Water temperature (°C)	Standard pH units	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	5-day carbonaceous biochemical oxygen demand (mg/L)
			Onsite	Laboratory					
F2.60	12-09-86	0900	1,250	1,160	0.0	8.6	13.7	111	3.2
		1330	1,260	1,110	2.0	8.8	11.9	103	3.7
		1715	1,250	1,120	1.0	8.6	12.1	101	4.7
		2100	1,240	1,170	0.0	8.0	13.7	111	4.1
	12-10-86	0055	1,060	1,140	0.0	8.0	14.6	119	5.0
		0415	1,380	1,200	0.0	8.0	13.8	113	4.0
	02-10-87	0755	1,180	1,160	1.0	8.8	12.3	104	4.7
		1245	1,200	1,110	8.5	8.5	9.7	99	5.4
		1640	1,220	1,140	10.0	8.4	7.7	82	4.6
		2030	1,230	1,170	6.5	8.3	10.4	101	4.5
		2345	1,230	1,130	4.5	8.2	10.8	100	4.5
	02-11-87	0230	1,240	1,190	3.0	8.3	10.6	94	2.8
F0.00	12-09-86	0800	1,270	1,170	0.0	8.6	16.1	131	2.7
		1255	1,270	1,160	1.0	8.9	12.2	102	3.9
		1300	1,270	1,140	1.0	8.9	12.2	102	3.0
		1630	1,260	1,160	1.0	8.9	14.1	118	5.3
		2010	1,210	1,150	0.0	8.6	13.2	107	5.2
	12-10-86	0030	1,230	1,130	0.0	8.1	15.3	124	3.9
		0035	1,230	1,160	0.0	8.1	15.3	124	3.6
		0345	1,220	1,140	0.0	8.1	14.8	120	4.4
	02-10-87	0715	1,080	1,220	1.5	--	12.2	104	4.1
		1210	1,200	1,030	7.0	8.2	10.1	100	5.0
		1215	1,200	1,150	7.0	8.2	10.1	99	.0
		1615	1,210	1,180	9.5	8.5	8.8	93	4.5
		2000	1,230	1,190	6.5	8.2	11.0	107	5.0
		2315	1,220	1,180	4.5	8.3	10.8	100	4.4
		2320	1,220	1,130	4.5	8.3	10.8	100	5.5
	02-11-87	0200	1,230	1,200	3.5	8.5	11.7	104	2.9

Table 2.--*Water-quality data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of sample	Time of sample	Total organic nitrogen (mg/L as N)	Total ammonia nitrogen (mg/L as N)	Total organic and ammonia nitrogen (mg/L as N)	Total nitrite nitrogen (mg/L as N)	Total nitrate nitrogen (mg/L as N)	Total nitrite and nitrate nitrogen (mg/L as N)	Total nitrogen (mg/L as N)
F2.60	12-09-86	0900	1.5	0.45	1.9	0.06	--	--	--
		1330	1.6	.43	2.0	.05	4.6	4.7	6.7
		1715	1.2	.66	1.9	.06	5.3	5.4	7.3
		2100	.87	.83	1.7	.06	5.2	5.3	7.0
	12-10-86	0055	1.6	.82	2.4	.06	5.5	5.6	8.0
		0415	1.8	.74	2.5	.05	4.8	4.8	7.3
	02-10-87	0755	3.2	.50	3.7	.05	6.9	7.0	11
		1245	3.0	.64	3.6	.06	6.5	6.6	10
		1640	3.1	.86	4.0	.12	6.5	6.6	11
		2030	2.5	.84	3.3	.14	7.0	7.1	10
		2345	3.1	.78	3.9	.12	7.7	7.8	12
	02-11-87	0230	2.4	.65	3.1	.09	7.7	7.8	11
F0.00	12-09-86	0800	.64	.46	1.1	.06	5.4	5.5	6.6
		1255	1.4	.34	1.7	.06	5.2	5.3	7.0
		1300	1.5	.36	1.9	.06	5.4	5.5	7.4
		1630	1.8	.49	2.3	.06	5.1	5.2	7.5
		2010	.93	.67	1.6	.06	5.1	5.2	6.8
	12-10-86	0030	1.4	.71	2.1	.06	5.5	5.6	7.7
		0035	1.4	.68	2.1	.05	4.9	5.0	7.1
		0345	1.2	.73	1.9	.06	5.5	5.6	7.5
	02-10-87	0715	2.1	.47	2.6	.06	6.9	7.0	9.6
		1210	2.6	.38	3.0	.05	6.8	6.8	9.8
		1215	--	--	2.7	.05	6.6	6.7	9.4
		1615	3.0	.64	3.6	.11	6.5	6.6	10
		2000	2.6	.64	3.2	.14	6.9	7.0	10
		2315	2.5	.57	3.1	.13	7.0	7.1	10
		2320	2.3	.61	2.9	.12	7.2	7.3	10
	02-11-87	0200	2.2	.55	2.8	.10	7.1	7.2	10

Table 3.--*Discharge data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*

[Dashes indicate not applicable]

Hydrologic data site number (table 1)	Date of measurement	Time of measurement	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
M23.68	07-15-86	0950	2.14	7.0	2.15	1.00
	07-21-87	0907	8.82	10.4	4.56	1.93
		1501	8.67	10.3	4.58	1.89
[1]MT23.67	07-15-86	--	.48	--	--	--
	07-16-86	--	.60	--	--	--
	07-21-87	--	1.23	--	--	--
	07-22-87	--	1.28	--	--	--
MT22.43	07-15-86	1015	.01	.6	.02	.71
M22.02	07-15-86	1105	3.76	7.7	2.44	1.54
	07-21-87	1004	9.77	11.2	5.58	1.75
		1548	9.08	11.3	5.56	1.63
MT21.21	07-15-86	1120	1.62	8.0	1.86	.87
	07-21-87	1040	.25	2.5	.53	.47
M20.39	07-15-86	1158	5.09	8.5	4.35	1.17
	07-21-87	1049	10.8	15.1	8.12	1.33
		1630	11.0	15.0	8.07	1.36
MT19.76	07-15-86	1200	.05	1.0	.06	.83
	07-21-87	1110	.15	1.7	.35	.43
MT19.17	07-15-86	1230	.04	1.2	.07	.57
	07-21-87	1130	.07	1.1	.12	.58
M18.56	07-15-86	1300	5.14	15.8	6.40	.80
	07-21-87	1148	10.2	17.3	8.03	1.27
[2]MT18.37	07-15-86	1331	.05	--	--	--
M17.46	07-15-86	1440	5.17	5.8	3.09	1.67
	07-21-87	1242	11.1	12.6	6.08	1.83
		1716	10.8	13.4	6.23	1.73
[2]MT17.45	07-15-86	1440	.11	--	--	--
	07-21-87	1255	.40	2.6	.52	.73

Table 3.--*Discharge data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of measure-ment	Time of measure-ment	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
MT17.16	07-15-86	1335	0.77	10.5	1.00	0.77
	07-21-87	1210	.79	3.8	.75	1.05
MT14.89	07-15-86	1600	.12	2.5	.14	.86
	07-21-87	1325	1.60	2.9	1.22	1.31
M13.44	07-15-86	1547	9.22	11.1	5.94	1.55
	07-21-87	1331	15.1	20.2	7.04	2.14
		1803	14.1	20.0	6.94	2.03
M11.43	07-15-86	1650	10.0	15.4	6.00	.60
	07-21-87	0905	14.3	15.5	8.55	1.67
		1520	15.6	15.8	9.20	1.69
MT11.42	07-21-87	1435	.03	1.9	.30	.10
MT10.52	07-15-86	1500	.43	2.5	.32	1.34
	07-21-87	1515	1.47	6.4	.83	1.77
MT9.06	07-15-86	1635	1.02	4.3	.79	1.29
	07-21-87	1550	1.49	3.7	.94	1.58
MT8.18	07-21-87	1620	2.03	6.9	1.13	1.80
M7.34	07-15-86	1810	14.1	18.8	5.65	2.50
	07-21-87	1005	25.9	50.0	15.4	1.68
MT4.95	07-15-86	1800	.23	4.5	.45	.51
	07-21-87	1735	.45	4.8	1.60	.28
MT4.88	07-21-87	1650	.46	4.4	.58	.79
MT4.36	07-21-87	1755	.34	3.0	.68	.50
M3.69	07-15-86	1845	7.59	25.0	4.90	1.55
	07-21-87	1105	12.8	35.0	9.27	1.38
		1625	15.2	38.0	8.93	1.70

Table 3.--*Discharge data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of measure-ment	Time of measure-ment	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
M0.00	07-15-86	1730	8.36	13.5	4.77	1.75
	07-21-87	1205	15.6	18.5	8.25	1.89
		1730	18.1	18.4	8.25	2.19
[1]FT68.10	07-15-86	--	.16	2.2	.29	1.38
	07-16-86	--	.15	--	--	--
	07-21-87	--	.31	--	--	--
	07-22-87	--	.31	--	--	--
[1]FT68.09	07-15-86	--	.02	--	--	--
	07-16-86	--	.02	--	--	--
	07-21-87	--	.02	--	--	--
	07-22-87	--	.02	--	--	--
F67.76	07-15-86	1058	.42	2.1	.23	1.83
	07-21-87	0955	.21	3.0	.27	.78
		1455	.27	2.1	.18	1.50
FT67.75	07-15-86	1108	.02	1.2	.15	.13
	07-21-87	1010	.02	.7	.05	.40
F67.28	07-15-86	1144	.28	2.1	.23	1.22
	07-21-87	0945	.21	1.7	.16	1.31
		1525	.10	1.3	.20	.50
F66.52	07-15-86	1228	.18	2.3	.24	.75
	07-21-87	1005	.10	1.2	.09	1.11
		1547	.06	1.1	.14	.43
FT66.51	07-15-86	1239	.14	2.0	.20	.70
	07-21-87	1030	.29	2.9	.47	.62
FT66.13	07-15-86	1323	.98	3.8	.63	1.56
	07-21-87	1055	.25	2.1	.39	.64

Table 3.--*Discharge data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of measurement	Time of measurement	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
F64.58	07-15-86	1407	2.31	5.7	1.26	1.83
	07-21-87	1115	2.40	6.8	1.76	1.36
		1640	1.95	6.5	1.62	1.20
FT64.57	07-15-86	1435	.65	5.2	1.23	.53
	07-21-87	1125	2.65	7.5	2.24	1.18
FT64.48	07-15-86	1515	.73	3.3	.84	.88
	07-21-87	1150	3.27	4.0	1.81	1.81
F60.74	07-15-86	1648	3.40	6.0	3.59	.95
	07-21-87	1215	8.83	8.3	3.72	2.37
		1737	8.77	8.5	3.80	2.31
FT60.73	07-15-86	1712	1.61	4.8	2.67	.60
	07-21-87	1225	.12	1.3	.20	.60
FT59.90	07-21-87	1255	1.36	3.4	1.46	.93
F56.90	07-15-86	1811	6.68	12.1	5.75	1.16
	07-21-87	1415	10.2	16.0	8.39	1.22
		1910	9.86	15.6	8.14	1.21
FT56.28	07-15-86	1829	.01	1.0	.07	.14
	07-21-87	1330	.34	3.1	1.14	.30
FT54.98	07-15-86	1849	.28	1.8	.45	.62
	07-21-87	1400	.64	4.7	.79	.81
F53.84	07-15-86	1940	9.26	10.2	3.69	2.51
	07-21-87	1410	13.7	11.0	20.7	.66
FT53.39	07-21-87	1445	.48	7.2	.45	1.07
F50.61	07-15-86	1755	3.14	12.5	3.61	.87
	07-21-87	1240	6.88	18.8	6.89	1.00
		1755	5.93	18.0	5.19	1.14

Table 3.--*Discharge data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of measure-ment	Time of measure-ment	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
FT50.17	07-15-86	1625	0.08	1.2	0.12	0.67
	07-21-87	1525	.63	2.6	.65	.97
F49.34	07-15-86	1540	15.1	29.5	8.32	1.82
	12-09-86	0954	35.6	27.0	15.7	2.27
		1456	31.1	32.0	14.4	2.16
	02-10-87	1250	31.1	28.0	13.7	2.27
	07-21-87	1410	27.1	28.0	15.0	1.81
FT49.33	07-15-86	1500	.11	1.5	.15	.73
	07-21-87	1645	1.38	9.4	2.28	.61
FT49.04	02-10-87	1200	.80	4.0	1.41	.57
	07-21-87	1555	.71	5.6	1.44	.49
[1]FT48.66	07-15-86	--	44.3	--	--	--
	07-16-86	--	47.7	--	--	--
	12-09-86	--	44.8	--	--	--
	12-10-86	--	45.0	--	--	--
	02-10-87	--	44.6	--	--	--
	02-11-87	--	45.0	--	--	--
	07-21-87	--	50.8	--	--	--
	07-22-87	--	43.3	--	--	--
FT48.46	07-15-86	1800	33.4	17.2	13.8	2.42
	12-09-86	1155	18.8	20.0	9.15	2.05
	12-10-86	0755	13.5	20.5	7.05	1.92
	02-10-87	1050	49.6	23.0	17.1	2.90
	02-11-87	0740	39.2	22.5	14.3	2.74
	07-21-87	1159	25.3	17.0	10.9	2.32
		1809	18.5	17.0	9.30	1.99
FT47.74	02-10-87	1425	.01	.8	.02	.50
	07-21-87	1830	.02	.9	.12	.17

Table 3.--*Discharge data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of measure-ment	Time of measure-ment	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
F47.61	07-15-86	0715	26.9	26.0	16.9	1.59
		1145	76.0	49.0	30.4	2.50
	12-09-86	0800	39.1	54.0	20.5	1.91
		1110	66.8	50.0	30.6	2.18
	02-10-87	0800	63.1	56.0	30.2	2.09
		1045	100	65.0	57.6	1.74
	07-21-87	1310	60.2	55.0	25.9	2.32
		1852	47.7	50.0	22.6	2.11
FT47.60	07-15-86	1405	3.66	7.5	2.64	1.39
	12-10-86	0100	6.55	22.0	6.06	1.08
	02-10-87	0910	4.14	9.0	3.02	1.37
	07-21-87	1855	4.38	6.2	2.40	1.83
FT46.93	12-09-86	1545	.06	1.2	.11	.55
	02-10-87	1415	.14	1.8	.22	.64
	07-21-87	1605	.15	1.7	.28	.53
FT46.50	12-09-86	1515	.51	2.7	.46	1.11
	02-10-87	1400	.59	7.0	1.18	.50
	07-21-87	1730	.59	6.1	.96	.61
FT45.63	02-10-87	0955	3.59	7.7	1.63	2.20
	07-21-87	1920	.17	1.8	.16	1.06
F45.22	07-15-86	0833	40.8	48.5	25.9	1.58
		1240	69.4	36.0	31.4	2.21
	12-09-86	0910	51.9	44.0	24.6	2.11
		1127	84.0	43.0	33.2	2.54
	02-10-87	0754	53.8	42.0	23.2	2.32
		1231	99.5	45.0	34.6	2.88
	07-21-87	0843	42.9	43.0	18.6	2.31
		1510	73.9	50.0	30.0	2.46
FT45.01	12-09-86	1430	.72	5.5	.75	.96
	02-10-87	1602	.14	2.1	.27	.53
	07-21-87	1950	.17	2.1	.23	.73

Table 3.--*Discharge data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of measure-ment	Time of measure-ment	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
F43.66	07-15-86	0825	42.7	46.0	17.4	2.45
		1334	82.5	77.0	34.7	2.38
	12-09-86	0827	48.0	31.0	26.6	1.80
		1253	89.4	45.0	37.6	2.38
	02-10-87	0917	59.9	40.0	27.7	2.16
		1347	100	56.0	40.8	2.46
	07-21-87	0957	48.5	46.0	20.5	2.36
		1616	84.8	104	37.3	2.27
FT43.23	07-15-86	1325	.05	.7	.07	.76
	12-09-86	1610	.17	5.2	.30	.57
	02-10-87	1220	1.4	2.0	.70	2.00
F40.98	07-15-86	0935	44.1	52.0	20.7	2.13
		1355	71.6	50.0	27.5	2.61
	12-09-86	0948	46.2	56.0	22.6	2.04
		1240	72.4	58.0	28.4	2.55
	02-10-86	1047	65.1	50.0	28.3	2.30
		1520	90.2	52.0	37.5	2.40
	07-21-87	1100	102	57.0	20.4	5.0
		1708	66.5	56.0	26.9	2.47
[1]FT40.97	07-15-86	--	2.33	--	--	--
	07-16-86	--	2.30	--	--	--
	12-09-86	--	2.02	--	--	--
	12-10-86	--	1.54	--	--	--
	02-09-87	--	1.94	--	--	--
	02-10-87	--	1.90	--	--	--
	07-21-87	--	2.42	--	--	--
	07-22-87	--	2.38	--	--	--

Table 3.--*Discharge data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of measure-ment	Time of measure-ment	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
F40.41	07-15-86	0935	41.3	42.6	18.1	1.99
		1450	76.6	46.5	27.1	2.83
	12-09-86	1055	47.6	66.0	25.6	1.86
		1433	97.3	81.0	42.1	2.32
	02-10-87	0910	61.1	50.5	29.6	2.06
		1445	86.9	52.0	38.7	2.25
	07-21-87	0855	55.4	72.0	24.4	2.27
FT39.97	02-10-87	0840	.63	6.7	.87	.72
	07-21-87	2035	.33	3.0	.36	.92
F39.54	07-15-86	1047	40.0	42.0	20.0	2.00
		1552	73.5	48.0	30.9	2.38
	12-09-86	1235	69.2	57.0	29.0	2.39
	02-10-87	0915	60.7	45.0	32.0	1.90
		1205	74.3	42.5	33.4	2.26
	07-21-87	1010	56.5	67.0	25.3	2.23
		1625	90.7	77.0	37.1	2.44
[1]FT39.53	07-15-86	--	2.07	--	--	--
	07-16-86	--	2.07	--	--	--
	12-09-86	--	1.78	--	--	--
	12-10-86	--	1.72	--	--	--
	02-10-87	--	1.90	--	--	--
	02-11-87	--	1.92	--	--	--
	07-21-87	--	2.01	--	--	--
	07-22-87	--	2.01	--	--	--
FT39.52	07-15-86	1305	4.35	7.5	3.59	1.21
	12-09-86	1650	4.60	8.4	5.92	.78
	02-10-87	0810	3.67	11.0	3.20	1.15
	07-21-87	1525	4.78	9.9	3.40	1.41
FT38.52	07-15-86	1115	9.48	10.6	4.49	2.11
	12-09-86	1350	2.70	9.7	2.26	.44
	02-10-87	1200	2.26	9.6	2.73	.83

Table 3.--*Discharge data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of measure-ment	Time of measure-ment	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
F37.43	07-15-86	1201	38.2	31.0	15.5	2.46
		1705	62.2	41.3	24.1	2.28
	12-09-86	1425	98.2	71.0	38.3	2.56
		1606	96.1	64.0	35.9	2.67
	02-10-87	1025	65.2	59.0	34.5	1.89
		1310	83.4	61.0	41.0	2.03
	07-21-87	1105	20.6	44.5	12.6	1.63
		1715	49.5	53.0	21.0	2.36
FT36.33	07-15-86	1030	.56	3.2	.50	1.12
	12-09-86	1315	.78	3.5	1.83	.43
	02-10-87	1235	1.15	6.5	5.15	.22
	07-21-87	2000	.30	4.9	1.19	.25
FT35.20	07-15-86	1010	.36	3.0	.38	.95
	12-09-86	1230	2.48	7.0	.80	1.38
	02-10-87	1440	2.14	5.2	1.21	1.77
	07-21-87	1935	.46	4.0	.68	.68
F34.27	07-15-86	1447	38.8	55.5	19.4	2.00
		1930	57.8	63.0	24.7	2.34
	12-09-86	1431	73.4	70.0	30.3	2.42
		1605	104	76.0	41.0	2.54
	02-10-87	0925	100	101	39.3	2.56
		1338	85.3	101	37.0	2.30
	07-21-87	1215	21.5	36.0	11.5	1.87
		1820	44.5	60.0	21.3	2.09
[1]FT34.26	07-15-86	--	.77	--	--	--
	07-16-86	--	.77	--	--	--
	12-09-86	--	.84	--	--	--
	12-10-86	--	.84	--	--	--
	02-10-87	--	.17	--	--	--
	02-11-87	--	.17	--	--	--
	07-21-87	--	.79	--	--	--
	07-22-87	--	.73	--	--	--

Table 3.--*Discharge data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of measure-ment	Time of measure-ment	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
F31.38	07-15-86	1620	40.9	40.0	18.0	2.27
		2155	60.3	44.5	24.4	2.47
	12-09-86	0820	110	56.0	39.6	2.78
		1555	87.8	56.5	30.5	2.80
	02-10-87	1100	103	50.5	35.5	2.89
		1545	110	55.0	38.6	2.86
	07-21-87	1325	19.1	43.0	11.6	1.69
		1935	34.2	51.0	17.6	1.94
FT30.32	07-15-86	0850	.11	1.7	.17	.65
	07-21-87	1900	.73	13.5	1.44	.51
F29.47	07-15-86	1710	38.8	33.0	19.3	2.01
		2245	64.2	42.0	26.3	2.44
	12-09-86	0935	107	46.0	37.3	2.87
		1627	77.0	43.0	30.8	2.50
	02-10-87	1055	81.5	47.0	36.9	2.21
		1640	110	53.0	40.7	2.71
	07-21-87	1430	23.8	34.0	12.1	1.97
F25.25	12-09-86	0855	116	109	47.7	2.43
		1115	102	107	44.3	2.30
	02-10-87	0812	125	116	52.3	2.39
		1417	98.8	115	43.1	2.29
FT25.15	12-09-86	1050	.74	3.9	1.52	.49
	02-10-87	0904	1.08	4.8	2.22	.49
FT24.20	12-09-86	0945	1.68	5.0	2.27	.74
	02-10-87	0949	1.82	6.2	2.81	.65
F20.85	12-09-86	1014	116	62.0	36.7	3.16
		1710	95.6	61.0	34.8	2.69
	02-10-87	1047	125	60.0	40.4	3.09
		1543	98.1	60.0	33.9	2.89

Table 3.--*Discharge data for four 24-hour sampling periods on Fountain Creek, Monument Creek, tributaries, and wastewater-treatment-facility outfalls*--Continued

Hydrologic data site number (table 1)	Date of measure-ment	Time of measure-ment	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
F15.00	12-09-86	1245	117	66.7	37.0	3.17
		1605	113	61.0	37.8	2.98
	02-10-87	1249	124	82.0	44.0	2.82
F10.90	12-09-86	1204	126	110	50.2	2.51
		1420	126	113	52.1	2.42
	02-10-87	0755	125	105	50.3	2.48
		1505	124	112	54.2	2.29
F6.95	12-09-86	1305	125	77.0	41.9	2.98
		1500	121	77.5	42.1	2.87
	02-10-87	0930	131	73.0	45.1	2.92
		1610	127	74.0	44.4	2.86
F2.60	12-09-86	1100	107	80.0	40.3	2.65
		1342	122	80.5	43.0	2.84
	02-10-87	1045	134	86.0	46.7	2.87
F0.00	12-09-86	0930	107	44.5	39.4	2.73
		1623	116	48.0	41.9	2.77
	02-10-87	1310	142	51.0	47.5	2.99
		1715	137	50.0	41.6	3.29

[1]Discharges listed for site are daily average discharge.
[2]Discharge determined by volumetric measurement.

Table 4.--*Channel-geometry data for three 24-hour sampling periods on Fountain Creek and Monument Creek*

[No channel-geometry data available for July 1986 sampling period]

Hydrologic data site number (table 1)	Date	Time	Cross-section number	Width (feet)	Area (square feet)	Average depth (feet)
M23.68	07-21-87	0907	1	13.2	6.22	0.47
			2	10.4	4.33	.42
		1501	1	13.5	5.53	.41
			2	20.0	6.27	.31
M22.02	07-21-87	1004	1	13.8	8.31	.60
			2	17.8	6.96	.39
		1548	1	17.9	6.46	.36
			2	18.3	6.40	.35
M20.39	07-21-87	1049	1	20.3	9.95	.49
			2	12.8	15.5	1.21
			3	18.8	5.80	.31
		1630	1	20.9	9.94	.48
			2	19.4	6.73	.35
M18.56	07-21-87	1148	1	24.1	8.44	.35
			2	14.7	8.02	.55
			3	13.9	6.53	.47
			4	17.8	6.83	.38
M17.46	07-21-87	1242	1	12.8	6.21	.49
			2	13.7	6.72	.49
		1716	1	13.7	6.22	.45
			2	20.3	7.45	.37
M13.44	07-21-87	1331	1	16.5	7.85	.48
			2	12.5	6.90	.55
		1803	1	18.4	8.12	.44
			2	12.4	7.19	.58
M11.43	07-21-87	0905	1	18.3	10.9	.60
			2	15.5	7.56	.50
		1520	1	19.6	10.5	.54
			2	14.4	7.43	.52
M7.34	07-21-87	1005	1	61.3	15.3	.25
			2	48.9	12.6	.26

Table 4.--*Channel-geometry data for three 24-hour sampling periods on Fountain Creek and Monument Creek*-Continued

Hydrologic data site number (table 1)	Date	Time	Cross-section number	Width (feet)	Area (square feet)	Average depth (feet)
M3.69	07-21-87	1105	1	36.5	9.02	0.25
			2	49.2	11.3	.23
		1625	1	46.4	13.0	.28
			2	47.6	11.9	.25
M0.00	07-21-87	1205	1	17.6	10.3	.62
			2	16.6	6.48	.39
		1730	1	19.0	10.1	.53
			2	17.3	9.59	.55
F67.76	07-21-87	0955	1	14.3	0.34	.02
			2	6.8	0.18	.03
		1445	1	10.4	0.31	.03
F67.28	07-21-87	0945	1	6.8	0.14	.02
		1525	1	6.1	0.14	.02
F66.52	07-21-87	1005	1	1.5	0.10	.07
		1547	1	1.6	0.10	.06
F64.58	07-21-87	1115	1	7.4	2.48	.34
			2	7.9	1.78	.23
		1640	1	7.5	1.64	.22
			2	7.7	1.57	.20
F60.74	07-21-87	1215	1	11.0	5.82	.52
			2	8.4	4.31	.51
		1737	1	10.9	5.17	.47
			2	8.5	5.18	.61
F56.90	07-21-87	1415	1	16.6	8.02	.48
			2	14.6	6.30	.44
		1910	1	16.4	7.69	.47
			2	22.1	7.53	.34
F53.84	07-21-87	1410	1	10.5	7.16	.68
			2	23.4	15.0	.64
F50.61	07-21-87	1240	1	14.4	8.77	.61
			2	18.3	8.49	.46
		1755	1	14.3	5.28	.37
			2	13.6	7.93	.58

Table 4.--*Channel-geometry data for three 24-hour sampling periods on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Date	Time	Cross-section number	Width (feet)	Area (square feet)	Average depth (feet)
F49.34	12-09-86	0954	1	32.0	17.9	0.56
			2	53.0	27.1	.51
		1456	1	41.0	16.2	.39
			2	34.0	17.4	.51
F49.34	02-10-87	1250	1	28.0	13.7	.48
			2	42.0	17.0	.40
			3	26.0	13.6	.52
	07-21-87	1410	1	34.0	16.8	.49
			2	25.0	15.3	.61
F47.61	12-09-86	0800	1	38.5	19.4	.50
			2	50.0	17.4	.34
		1110	1	43.0	27.6	.63
			2	58.0	31.2	.54
	02-10-87	0800	1	34.0	26.8	.79
			2	56.0	31.1	.56
		1045	1	32.0	24.5	.77
			2	63.0	32.6	.52
	07-21-87	1310	1	43.0	26.9	.61
			2	53.0	31.0	.58
		1852	1	55.0	24.8	.45
			2	44.0	24.2	.55
F45.22	12-09-86	0910	1	46.0	25.9	.56
			2	39.0	24.8	.64
		1127	1	36.0	39.2	1.08
			2	73.0	50.0	.68
	02-10-87	0754	1	40.0	20.9	.52
			2	50.0	24.3	.49
		1231	1	46.0	36.1	.78
			2	48.0	36.4	.76
	07-21-87	0843	1	35.0	19.6	.56
			2	32.5	21.7	.67
		1510	1	58.5	31.3	.54
			2	47.0	30.7	.65

Table 4.--*Channel-geometry data for three 24-hour sampling periods on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Date	Time	Cross-section number	Width (feet)	Area (square feet)	Average depth (feet)
F43.66	12-09-86	1253	1	105	53.6	0.51
			2	90.0	52.5	.57
	02-10-87	0917	1	37.0	29.0	.78
			2	48.0	31.6	.65
		1347	1	54.0	35.5	.65
			2	54.0	39.0	.72
	07-21-87	0957	1	69.0	26.3	.38
			2	99.0	28.5	.29
		1616	1	108	38.0	.35
			2	92.0	35.7	.39
F40.98	12-09-86	0948	1	55.0	24.5	.44
			2	51.5	20.8	.40
		1240	1	52.0	30.1	.57
			2	56.0	30.9	.55
	02-10-87	1047	1	55.0	32.7	.59
			2	51.0	31.1	.61
		1520	1	63.0	41.1	.65
			2	64.0	40.2	.63
	07-21-87	1100	1	59.0	23.6	.40
			2	43.0	22.9	.53
		1708	1	61.0	32.6	.53
			2	58.0	31.3	.54
F40.41	02-09-87	1055	1	82.0	29.8	.36
		1433	1	83.0	43.9	.52
			2	96.0	48.2	.50
	02-10-87	0910	1	48.0	30.3	.63
			2	48.0	27.8	.58
	02-10-87	1445	1	49.0	38.7	.79
			2	49.0	37.3	.79
	07-21-87	0855	1	54.0	21.8	.40
			2	67.0	23.5	.35

Table 4.--*Channel-geometry data for three 24-hour sampling periods on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Date	Time	Cross-section number	Width (feet)	Area (square feet)	Average depth (feet)
F39.54	12-09-86	1235	1	71.0	34.1	0.48
	02-10-87	0915	1	60.0	38.2	.63
			2	41.0	29.3	.71
		1205	1	49.0	38.3	.78
			2	71.0	41.2	.58
	07-21-87	1010	1	98.0	26.2	.27
			2	77.0	28.2	.37
		1625	1	102	36.5	.36
			2	81.0	35.9	.44
F37.43	12-09-86	1425	1	72.0	34.4	.48
		1606	1	96.0	51.7	.54
			2	63.0	40.1	.63
	02-10-87	1025	1	80.0	40.5	.51
			2	80.0	37.6	.47
		1310	1	80.0	47.6	.60
			2	80.0	47.9	.60
	07-21-87	1105	1	61.0	13.3	.22
			2	43.5	11.2	.26
		1715	1	61.0	21.4	.35
			2	49.5	22.3	.45
F34.27	12-09-86	1431	1	39.5	28.5	.72
			2	83.0	39.0	.47
		1605	1	109	46.5	.43
	02-10-87	0925	1	97.0	39.7	.41
			2	106	46.5	.44
		1338	1	96.0	39.2	.41
			2	83.2	37.5	.45
	07-21-87	1215	1	47.0	11.5	.24
			2	57.0	12.5	.22
		1820	1	65.0	22.2	.34
			2	78.0	25.2	.32

Table 4.--*Channel-geometry data for three 24-hour sampling periods on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Date	Time	Cross-section number	Width (feet)	Area (square feet)	Average depth (feet)
F31.38	12-09-86	0820	1	65.0	41.9	0.65
			2	61.0	41.8	.68
		1555	1	67.1	39.2	.58
			2	100	47.3	.47
	02-10-87	1100	1	99.5	45.3	.46
			2	93.0	44.1	.47
		1545	1	88.0	43.5	.49
	07-21-87	1325	1	52.0	11.9	.23
			2	35.0	9.5	.27
		1935	1	76.5	18.4	.24
			2	40.0	16.3	.41
F29.47	12-09-86	0935	1	60.0	42.5	.70
			2	50.0	37.6	.75
		1627	1	46.0	32.3	.70
			2	44.0	27.2	.61
	02-10-87	1055	1	59.0	43.6	.74
			2	68.0	39.2	.58
		1640	1	85.0	47.5	.56
			2	94.0	44.1	.47
	07-21-87	1430	1	38.5	11.3	.29
			2	51.0	13.8	.27
F25.25	12-09-86	0855	1	104	49.3	.47
			2	112	51.6	.46
		1115	1	102	50.5	.49
			2	112	47.9	.42
	02-10-87	0812	1	111	53.5	.48
			2	103	55.7	.54
		1417	1	102	41.7	.41
			2	101	44.9	.45
F20.85	12-09-86	1014	1	47.0	41.4	.88
			2	76.0	43.5	.57
		1710	1	46.5	37.2	.80
	02-10-87	1047	1	55.0	41.6	.76
			2	48.0	41.2	.86
		1543	1	54.0	36.4	.67
			2	48.0	36.5	.76

Table 4.--*Channel-geometry data for three 24-hour sampling periods on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Date	Time	Cross-section number	Width (feet)	Area (square feet)	Average depth (feet)
F15.00	12-09-86	1245	1	53.0	37.9	0.72
			2	102	46.3	.45
	02-10-87	1249	1	86.0	44.7	.52
			2	90.0	43.8	.49
F10.90	12-09-86	1204	1	93.0	44.8	.48
			2	101	41.0	.40
		1420	1	122	90.3	.74
			2	90.0	65.5	.73
	02-10-87	0755	1	108	51.0	.47
			2	86.0	48.5	.56
F6.95	12-09-86	1305	1	71.0	51.0	.72
			2	103	72.4	.70
		1500	1	106	50.1	.47
			2	87.0	48.2	.55
	02-10-87	0930	1	50.0	49.7	.99
			2	89.0	47.5	.53
		1610	1	90.0	44.2	.49
			2	88.0	49.6	.56
F2.60	12-09-86	1100	1	71.0	38.9	.54
			2	58.5	40.0	.68
		1342	1	69.0	47.2	.68
			2	59.0	42.3	.71
	02-10-87	1045	1	64.0	44.9	.70
			2	78.0	47.6	.61
F0.00	12-09-86	0930	1	45.0	39.4	.88
			2	32.0	35.3	1.10
		1623	1	56.0	45.1	.80
			2	47.0	41.7	.88
	02-10-87	1310	1	146	63.3	.43

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*

[Dashes indicate not applicable]

Hydrologic data site number (table 1)	Distance downstream from injection (miles)	Discharge (cubic feet per second)	Average velocity of dye cloud between sites (miles per hour)	Traveltime of dye cloud between sites			
				Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)
SLUG INJECTION OF 200 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M23.67 AT 1555 HOURS, JULY 9, 1986							
M23.67	0.00	10.3	--	--	--	--	--
M22.02	1.65	10.3	0.80	1.30	1.88	2.06	3.47
M20.39	3.28	13.7	1.01	1.55	1.57	1.62	1.98
M18.56	5.11	12.6	.71	1.98	2.38	2.56	3.72
M17.46	6.21	13.4	.75	1.50	1.34	1.47	2.33
SLUG INJECTION OF 100 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M17.46 AT 0855 HOURS, JULY 10, 1986							
M17.46	0.00	17.3	--	--	--	--	--
M13.44	4.02	17.3	0.99	3.43	3.93	4.08	5.60
M11.43	6.03	17.6	1.08	1.49	1.74	1.86	2.57
CONTINUOUS INJECTION OF 1,370 MILLILITERS OF 0.56-PERCENT DYE SOLUTION AT SITE M11.43 FOR 45 MINUTES BEGINNING AT 0915 HOURS, OCTOBER 22, 1986[1]							
M11.43	0.00	8.68	--	--	--	--	--
M9.91	1.52	9.68	0.58	1.67	2.50	2.64	4.50
M8.63	2.80	10.5	.83	1.33	1.50	1.55	2.00
M7.34	4.09	13.4	1.36	.92	.75	.95	1.25
M6.13	5.30	13.4	1.01	1.00	1.00	1.20	1.83
M4.94	6.49	13.4	1.02	.58	1.00	1.17	2.42
M3.48	7.95	17.1	1.08	1.33	1.08	1.35	1.08
M1.44	9.99	17.8	.86	1.42	1.75	2.36	4.84
CONTINUOUS INJECTION OF 1,340 MILLILITERS OF 2.22-PERCENT DYE SOLUTION AT SITE M18.56 FOR 45 MINUTES BEGINNING AT 0850 HOURS, OCTOBER 23, 1986[1]							
M18.56	0.00	3.64	--	--	--	--	--
M17.46	1.10	3.88	0.19	3.42	4.92	5.88	13.17
M17.21	1.35	4.07	.42	.55	.38	.60	1.80
M16.41	2.15	4.19	.27	2.61	2.95	2.98	2.61
SLUG INJECTION OF 150 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M11.90 AT 0855 HOURS, OCTOBER 24, 1986							
M11.90	0.00	16.9	--	--	--	--	--
M11.43	.47	16.9	0.71	0.40	0.55	0.66	1.45
M9.91	1.99	19.1	.98	1.23	1.50	1.55	2.18
M7.34	4.56	23.4	1.23	1.74	1.90	2.09	2.89
M3.69	8.21	25.2	1.14	2.38	2.80	3.19	5.23
M0.00	11.90	23.7	1.22	2.75	2.75	3.03	3.50
CONTINUOUS INJECTION OF 1,195 MILLILITERS OF 1.11-PERCENT DYE SOLUTION AT SITE M22.65 FOR 45 MINUTES BEGINNING AT 0825 HOURS, OCTOBER 30, 1986[1]							
M22.65	0.00	1.12	--	--	--	--	--
M22.02	.63	1.14	0.40	0.75	1.58	1.56	2.58
M20.39	2.26	2.98	.44	3.38	3.55	3.71	3.72

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Cumulative traveltime of dye cloud: Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)	Cumulative average velocity of dye cloud (miles per hour)	Time for dye cloud to pass site (hours)	Peak dye concentration (micrograms per liter)
SLUG INJECTION OF 200 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M23.67 AT 1555 HOURS, JULY 9, 1986							
M23.67	--	--	--	--	--	--	--
M22.02	1.30	1.88	2.06	3.47	0.80	2.17	66.1
M20.39	2.85	3.45	3.68	5.45	.89	2.60	35.1
M18.56	4.83	5.83	6.24	9.17	.82	4.34	16.4
M17.46	6.33	7.17	7.71	11.5	.81	5.17	13.4
SLUG INJECTION OF 100 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M17.46 AT 0855 HOURS, JULY 10, 1986							
M17.46	--	--	--	--	--	--	--
M13.44	3.43	3.93	4.08	5.60	0.99	2.17	19.0
M11.43	4.92	5.67	5.94	8.17	1.02	3.25	11.2
CONTINUOUS INJECTION OF 1,370 MILLILITERS OF 0.56-PERCENT DYE SOLUTION AT SITE M11.43 FOR 45 MINUTES BEGINNING AT 0915 HOURS, OCTOBER 22, 1986[1]							
M11.43	--	--	--	--	--	--	--
M9.91	1.67	2.50	2.64	4.50	0.58	2.83	7.35
M8.63	3.00	4.00	4.19	6.50	.67	3.50	4.75
M7.34	3.92	4.75	5.14	7.75	.80	3.83	2.53
M6.13	4.92	5.75	6.34	9.58	.84	4.66	1.43
M4.94	5.50	6.75	7.51	12.00	.86	6.50	.81
M3.48	6.83	7.83	8.86	13.08	.90	6.25	.50
M1.44	8.25	9.58	11.22	17.92	.89	9.67	.25
CONTINUOUS INJECTION OF 1,340 MILLILITERS OF 2.22-PERCENT DYE SOLUTION AT SITE M18.56 FOR 45 MINUTES BEGINNING AT 0850 HOURS, OCTOBER 23, 1986[1]							
M18.56	--	--	--	--	--	--	--
M17.46	3.42	4.92	5.88	13.17	0.19	9.75	35.0
M17.21	3.97	5.30	6.48	14.97	.21	11.00	32.0
M16.41	6.58	8.25	9.46	17.58	.23	11.00	19.0
SLUG INJECTION OF 150 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M11.90 AT 0855 HOURS, OCTOBER 24, 1986							
M11.90	--	--	--	--	--	--	--
M11.43	0.40	0.55	0.66	1.45	0.71	1.05	63.8
M9.91	1.63	2.05	2.21	3.63	.90	2.00	24.2
M7.34	3.37	3.95	4.30	6.52	.78	3.15	8.65
M3.69	5.75	6.75	7.49	11.75	.77	6.00	2.15
M0.00	8.50	9.50	10.52	15.25	1.13	6.75	.96
CONTINUOUS INJECTION OF 1,195 MILLILITERS OF 1.11-PERCENT DYE SOLUTION AT SITE M22.65 FOR 45 MINUTES BEGINNING AT 0825 HOURS, OCTOBER 30, 1986[1]							
M22.65	--	--	--	--	--	--	--
M22.02	0.75	1.58	1.56	2.58	0.40	1.83	102
M20.39	4.13	5.13	5.27	6.30	.43	2.17	26.4

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Distance downstream from injection (miles)	Discharge (cubic feet per second)	Average velocity of dye cloud between sites (miles per hour)	Traveltime of dye cloud between sites			
				Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)
CONTINUOUS INJECTION OF 1,140 MILLILITERS OF 0.69-PERCENT DYE SOLUTION AT SITE F55.85 FOR 40 MINUTES BEGINNING AT 0815 HOURS, OCTOBER 28, 1986[1]							
F55.85	0.00	7.05	--	--	--	--	--
F55.00	.85	7.47	0.63	0.92	1.32	1.34	2.03
F54.61	1.24	7.89	.93	.38	.43	.42	.52
F53.84	2.01	8.49	.94	.78	.83	.82	.98
F53.47	2.38	9.09	.70	.37	.47	.53	1.05
F52.31	3.54	8.86	.67	1.38	1.53	1.72	2.50
F50.61	5.24	8.92	.80	1.92	2.17	2.12	2.34
F49.34	6.51	28.5	1.09	.83	1.00	1.17	1.50
CONTINUOUS INJECTION OF 955 MILLILITERS OF 0.30-PERCENT DYE SOLUTION AT SITE F59.50 FOR 30 MINUTES BEGINNING AT 1400 HOURS, OCTOBER 29, 1986[1]							
F59.50	0.00	7.61	--	--	--	--	--
F59.30	.20	7.61	0.50	0.10	0.43	0.40	0.87
F59.15	.35	7.61	.68	.13	.15	.22	.41
F58.90	.60	7.61	.47	.49	.64	.53	.49
CONTINUOUS INJECTION OF 960 MILLILITERS OF 0.77-PERCENT DYE SOLUTION AT SITE F65.00 FOR 35 MINUTES BEGINNING AT 0945 HOURS, OCTOBER 31, 1986[1]							
F65.00	0.00	2.74	--	--	--	--	--
F64.58	.42	2.74	0.63	0.15	0.48	0.67	1.68
F63.98	1.02	4.98	1.07	.62	.55	.56	.55
F63.38	1.62	5.33	.95	.48	.64	.63	.94
F62.87	2.13	5.50	1.09	.50	.50	.47	.66
F60.74	4.26	5.92	.94	1.62	2.20	2.26	3.20
SLUG INJECTION OF 126 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F8.00 AT 1043 HOURS, APRIL 1, 1987							
F8.00	0.00	148	--	--	--	--	--
F6.95	1.05	153	1.52	0.47	0.63	0.69	1.30
F2.60	5.40	149	1.76	2.15	2.29	2.47	3.32
F0.00	8.00	142	1.48	1.03	1.40	1.76	3.86
SLUG INJECTION OF 126 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F12.55 AT 1125 HOURS, APRIL 1, 1987							
F12.55	0.00	144	--	--	--	--	--
F6.95	5.60	153	1.78	2.38	2.88	3.15	5.08
SLUG INJECTION OF 206 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F16.90 AT 0938 HOURS, APRIL 2, 1987							
F16.90	0.00	147	--	--	--	--	--
F15.00	1.90	147	1.44	0.95	1.20	1.32	2.20
F10.90	6.00	157	1.59	2.08	2.33	2.58	4.83
SLUG INJECTION OF 216 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F23.00 AT 1105 HOURS, APRIL 2, 1987							
F23.00	0.00	135	--	--	--	--	--
F20.85	2.15	135	1.50	1.05	1.32	1.43	2.52
F15.00	8.00	147	1.77	2.82	3.01	3.31	4.85

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Cumulative traveltime of dye cloud: Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)	Cumulative average velocity of dye cloud (miles per hour)	Time for dye cloud to pass site (hours)	Peak dye concentration (micrograms per liter)
CONTINUOUS INJECTION OF 1,140 MILLILITERS OF 0.69-PERCENT DYE SOLUTION AT SITE F55.85 FOR 40 MINUTES BEGINNING AT 0815 HOURS, OCTOBER 28, 1986[1]							
F55.85	--	--	--	--	--	--	--
F55.00	0.92	1.32	1.34	2.03	0.63	1.11	18.4
F54.61	1.30	1.75	1.76	2.55	.70	1.25	12.6
F53.84	2.08	2.58	2.58	3.53	.78	1.45	12.6
F53.47	2.45	3.05	3.11	4.58	.77	2.13	10.5
F52.31	3.83	4.58	4.83	7.08	.73	3.25	7.15
F50.61	5.75	6.75	6.95	9.42	.75	3.67	4.75
F49.34	6.58	7.75	8.12	10.92	.80	4.34	1.25
CONTINUOUS INJECTION OF 955 MILLILITERS OF 0.30-PERCENT DYE SOLUTION AT SITE F59.50 FOR 30 MINUTES BEGINNING AT 1400 HOURS, OCTOBER 29, 1986[1]							
F59.50	--	--	--	--	--	--	--
F59.30	0.10	0.43	0.40	0.87	0.50	0.77	12.2
F59.15	.23	.58	.62	1.28	.56	1.05	10.4
F58.90	.72	1.22	1.15	1.77	.52	1.05	9.75
CONTINUOUS INJECTION OF 960 MILLILITERS OF 0.77-PERCENT DYE SOLUTION AT SITE F65.00 FOR 35 MINUTES BEGINNING AT 0945 HOURS, OCTOBER 31, 1986[1]							
F65.00	--	--	--	--	--	--	--
F64.58	0.15	0.48	0.67	1.68	0.63	1.53	43.9
F63.98	.77	1.03	1.23	2.23	.83	1.46	19.0
F63.38	1.25	1.67	1.86	3.17	.87	1.92	15.0
F62.87	1.75	2.17	2.33	3.83	.91	2.08	13.4
F60.74	3.37	4.37	4.59	7.03	.93	3.66	7.12
SLUG INJECTION OF 126 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F8.00 AT 1043 HOURS, APRIL 1, 1987							
F8.00	--	--	--	--	--	--	--
F6.95	0.47	0.63	0.69	1.30	1.52	0.83	5.25
F2.60	2.62	2.92	3.16	4.62	1.71	2.00	2.14
F0.00	3.65	4.32	4.92	8.48	1.63	4.83	1.26
SLUG INJECTION OF 126 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F12.55 AT 1125 HOURS, APRIL 1, 1987							
F12.55	--	--	--	--	--	--	--
F6.95	2.38	2.88	3.15	5.08	1.78	2.70	2.45
SLUG INJECTION OF 206 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F16.90 AT 0938 HOURS, APRIL 2, 1987							
F16.90	--	--	--	--	--	--	--
F15.00	0.95	1.20	1.32	2.20	1.44	1.25	9.60
F10.90	3.03	3.53	3.90	7.03	1.54	4.00	2.54
SLUG INJECTION OF 216 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F23.00 AT 1105 HOURS, APRIL 2, 1987							
F23.00	--	--	--	--	--	--	--
F20.85	1.05	1.32	1.43	2.52	1.50	1.47	8.90
F15.00	3.87	4.33	4.74	7.37	1.69	3.50	2.62

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Distance downstream from injection (miles)	Discharge (cubic feet per second)	Average velocity of dye cloud between sites (miles per hour)	Traveltime of dye cloud between sites			
				Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)
SLUG INJECTION OF 196 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F26.90 AT 1510 HOURS, APRIL 2, 1987							
F26.90	0.00	130	--	--	--	--	--
F25.25	1.65	130	1.63	0.77	0.91	1.01	1.84
F20.85	6.05	135	1.37	2.26	2.96	3.21	5.36
SLUG INJECTION OF 200 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F31.38 AT 0945 HOURS, APRIL 3, 1987							
F31.38	0.00	127	--	--	--	--	--
F29.47	1.91	127	1.52	0.98	1.18	1.26	2.08
F25.25	6.13	121	1.60	1.99	2.45	2.64	3.80
SLUG INJECTION OF 195 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F43.66 AT 1030 HOURS, APRIL 3, 1987							
F43.66	0.00	121	--	--	--	--	--
F40.41	3.25	121	1.79	1.37	1.72	1.82	2.67
F35.70	7.96	145	1.81	2.13	2.45	2.60	3.58
SLUG INJECTION OF 208 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F38.70 AT 1048 HOURS, APRIL 3, 1987							
F38.70	0.00	120	--	--	--	--	--
F35.70	3.00	120	1.73	1.37	1.63	1.73	2.60
F31.38	7.32	119	1.69	1.96	2.37	2.55	3.65
CONTINUOUS INJECTION OF 1,080 MILLILITERS OF 8.89-PERCENT DYE SOLUTION AT SITE F6.95 FOR 40 MINUTES BEGINNING AT 1015 HOURS, APRIL 7, 1987[1]							
F6.95	0.00	143	--	--	--	--	--
F4.50	2.45	150	1.40	1.00	1.70	1.75	3.00
F4.00	2.95	146	1.72	.33	.30	.29	.33
F2.60	4.35	140	1.69	.64	.80	.83	1.14
F0.00	6.95	156	1.69	1.28	1.38	1.54	2.38
CONTINUOUS INJECTION OF 1,760 MILLILITERS OF 12.0-PERCENT DYE SOLUTION AT SITE F16.90 FOR 60 MINUTES BEGINNING AT 1015 HOURS, APRIL 8, 1987[1]							
F16.90	0.00	131	--	--	--	--	--
F15.00	1.90	131	1.23	0.67	1.58	1.55	3.00
F14.00	2.90	151	1.67	.63	.72	.60	.72
F12.55	4.35	151	1.36	.75	.82	1.07	2.20
F10.90	6.00	150	1.53	.73	.83	1.08	2.86
CONTINUOUS INJECTION OF 1,910 MILLILITERS OF 12.0-PERCENT DYE SOLUTION AT SITE F26.90 FOR 60 MINUTES BEGINNING AT 0900 HOURS, APRIL 9, 1987[1]							
F26.90	0.00	158	--	--	--	--	--
F25.25	1.65	158	1.09	0.75	1.42	1.52	2.83
F24.00	2.90	145	1.40	.53	.95	.89	1.45
F23.00	3.90	147	1.33	.72	.80	.75	1.30

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Cumulative traveltime of dye cloud: Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)	Cumulative average velocity of dye cloud (miles per hour)	Time for dye cloud to pass site (hours)	Peak dye concentration (micrograms per liter)
SLUG INJECTION OF 196 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F26.90 AT 1510 HOURS, APRIL 2, 1987							
F26.90	--	--	--	--	--	--	--
F25.25	0.77	0.91	1.01	1.84	1.63	1.07	16.9
F20.85	3.03	3.87	4.22	7.20	1.43	4.17	2.66
SLUG INJECTION OF 200 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F31.38 AT 0945 HOURS, APRIL 3, 1987							
F31.38	--	--	--	--	--	--	--
F29.47	0.98	1.18	1.26	2.08	1.52	1.10	9.05
F25.25	2.97	3.63	3.90	5.88	1.57	2.91	3.12
SLUG INJECTION OF 195 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F43.66 AT 1030 HOURS, APRIL 3, 1987							
F43.66	--	--	--	--	--	--	--
F40.41	1.37	1.72	1.82	2.67	1.79	1.30	6.20
F35.70	3.50	4.17	4.42	6.25	1.80	2.75	2.70
SLUG INJECTION OF 208 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F38.70 AT 1048 HOURS, APRIL 3, 1987							
F38.70	--	--	--	--	--	--	--
F35.70	1.37	1.63	1.73	2.60	1.73	1.23	6.85
F31.38	3.33	4.00	4.28	6.25	1.71	2.92	2.59
CONTINUOUS INJECTION OF 1,080 MILLILITERS OF 8.89-PERCENT DYE SOLUTION AT SITE F6.95 FOR 40 MINUTES BEGINNING AT 1015 HOURS, APRIL 7, 1987[1]							
F6.95	--	--	--	--	--	--	--
F4.50	1.00	1.70	1.75	3.00	1.40	2.00	13.1
F4.00	1.33	2.00	2.04	3.33	1.45	2.00	9.70
F2.60	1.97	2.80	2.87	4.47	1.52	2.50	8.40
F0.00	3.25	4.18	4.41	6.85	1.58	3.60	6.00
CONTINUOUS INJECTION OF 1,760 MILLILITERS OF 12.0-PERCENT DYE SOLUTION AT SITE F16.90 FOR 60 MINUTES BEGINNING AT 1015 HOURS, APRIL 8, 1987[1]							
F16.90	--	--	--	--	--	--	--
F15.00	0.67	1.58	1.55	3.00	1.23	2.33	14.4
F14.00	1.30	2.30	2.15	3.72	1.35	2.42	13.5
F12.55	2.05	3.12	3.22	5.92	1.35	3.87	9.95
CONTINUOUS INJECTION OF 1,910 MILLILITERS OF 12.0-PERCENT DYE SOLUTION AT SITE F26.90 FOR 60 MINUTES BEGINNING AT 0900 HOURS, APRIL 9, 1987[1]							
F26.90	--	--	--	--	--	--	--
F25.25	0.75	1.42	1.52	2.83	1.09	2.08	21.1
F24.00	1.28	2.37	2.41	4.28	1.20	3.00	16.1
F23.00	2.00	3.17	3.16	5.58	1.23	3.58	12.6

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Distance downstream from injection (miles)	Discharge (cubic feet per second)	Average velocity of dye cloud between sites (miles per hour)	Traveltime of dye cloud between sites			
				Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)
CONTINUOUS INJECTION OF 1,810 MILLILITERS OF 12.0-PERCENT DYE SOLUTION AT SITE F40.41 FOR 60 MINUTES BEGINNING AT 1230 HOURS, APRIL 9, 1987[1]							
F40.41	0.00	152	--	--	--	--	--
F38.60	1.81	152	1.32	0.70	1.37	1.37	2.53
F37.43	2.98	152	1.77	.33	.66	.66	1.09
F35.85	4.56	153	1.84	.64	.80	.86	1.13
F34.88	5.53	157.	1.64	.78	.54	.59	1.28
CONTINUOUS INJECTION OF 1,960 MILLILITERS OF 9.20-PERCENT DYE SOLUTION AT SITE F48.60 FOR 60 MINUTES BEGINNING AT 0930 HOURS, APRIL 10, 1987[1]							
F48.60	0.00	106	--	--	--	--	--
F46.95	1.65	106	1.18	0.58	1.58	1.40	2.50
F45.22	3.38	124	1.68	.92	.92	1.03	1.50
F43.66	4.94	140	1.84	.67	.75	.85	1.67
F40.41	8.19	129	1.62	1.58	1.83	2.01	2.75
SLUG INJECTION OF 250 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F8.00 AT 1015 HOURS, AUGUST 31, 1987							
F8.00	0.00	123	--	--	--	--	--
F6.95	1.05	123	1.22	0.67	0.80	0.86	1.50
F0.00	8.00	119	1.64	3.41	3.95	4.24	6.25
SLUG INJECTION OF 250 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F12.55 AT 1130 HOURS, AUGUST 31, 1987							
F12.55	0.00	120	--	--	--	--	--
F10.90	1.65	120	2.01	0.62	0.75	0.82	1.52
F6.95	5.60	123	1.61	1.91	2.28	2.45	3.60
SLUG INJECTION OF 244 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F16.90 AT 1030 HOURS, SEPTEMBER 1, 1987							
F16.90	0.00	116	--	--	--	--	--
F15.00	1.90	116	1.68	0.77	1.02	1.13	1.77
F10.90	6.00	94.3	1.51	2.06	2.56	2.71	4.40
SLUG INJECTION OF 235 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F23.00 AT 1105 HOURS, SEPTEMBER 1, 1987							
F23.00	0.00	104	--	--	--	--	--
F20.85	2.15	104	1.41	1.08	1.33	1.52	3.25
F15.00	8.00	116	1.61	2.84	3.42	3.64	5.17
SLUG INJECTION OF 248 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F26.90 AT 0910 HOURS, SEPTEMBER 2, 1987							
F26.90	0.00	107	--	--	--	--	--
F25.25	1.65	107	1.33	0.98	1.13	1.24	2.08
F20.85	6.05	90.7	1.27	2.77	3.12	3.46	5.50

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Cumulative traveltime of dye cloud: Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)	Cumulative average velocity of dye cloud (miles per hour)	Time for dye cloud to pass site (hours)	Peak dye concentration (micrograms per liter)
CONTINUOUS INJECTION OF 1,810 MILLILITERS OF 12.0-PERCENT DYE SOLUTION AT SITE F40.41 FOR 60 MINUTES BEGINNING AT 1230 HOURS, APRIL 9, 1987[1]							
F40.41	--	--	--	--	--	--	--
F38.60	0.70	1.37	1.37	2.53	1.32	1.83	14.1
F37.43	1.03	2.03	2.03	3.62	1.47	2.59	12.6
F35.85	1.67	2.83	2.89	4.75	1.58	3.08	11.1
F34.88	2.45	3.37	3.48	6.03	1.59	3.58	9.97
CONTINUOUS INJECTION OF 1,960 MILLILITERS OF 9.20-PERCENT DYE SOLUTION AT SITE F48.60 FOR 60 MINUTES BEGINNING AT 0930 HOURS, APRIL 10, 1987[1]							
F48.60	--	--	--	--	--	--	--
F46.95	0.58	1.58	1.40	2.50	1.18	1.92	15.2
F45.22	1.50	2.50	2.43	4.00	1.39	2.50	9.95
F43.66	2.17	3.25	3.28	5.67	1.51	3.50	9.58
F40.41	3.75	5.08	5.29	8.42	1.55	4.67	7.18
SLUG INJECTION OF 250 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F8.00 AT 1015 HOURS, AUGUST 31, 1987							
F8.00	--	--	--	--	--	--	--
F6.95	0.67	0.80	0.86	1.50	1.22	0.83	14.6
F0.00	4.08	4.75	5.10	7.75	1.57	3.67	2.45
SLUG INJECTION OF 250 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F12.55 AT 1130 HOURS, AUGUST 31, 1987							
F12.55	--	--	--	--	--	--	--
F10.90	0.62	0.75	0.82	1.52	2.01	0.90	15.40
F6.95	2.53	3.03	3.27	5.12	1.71	2.59	3.90
SLUG INJECTION OF 244 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F16.90 AT 1030 HOURS, SEPTEMBER 1, 1987							
F16.90	--	--	--	--	--	--	--
F15.00	0.77	1.02	1.13	1.77	1.68	1.00	12.6
F10.90	2.83	3.58	3.84	6.17	1.56	3.34	3.85
SLUG INJECTION OF 235 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F23.00 AT 1105 HOURS, SEPTEMBER 1, 1987							
F23.00	--	--	--	--	--	--	--
F20.85	1.08	1.33	1.52	3.25	1.41	2.17	9.95
F15.00	3.92	4.75	5.16	8.42	1.55	4.50	2.73
SLUG INJECTION OF 248 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F26.90 AT 0910 HOURS, SEPTEMBER 2, 1987							
F26.90	--	--	--	--	--	--	--
F25.25	0.98	1.13	1.24	2.08	1.41	1.10	16.0
F20.85	3.75	4.25	4.70	7.58	1.31	3.83	2.98

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Distance downstream from injection (miles)	Discharge (cubic feet per second)	Average velocity of dye cloud between sites (miles per hour)	Traveltime of dye cloud between sites: Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)
SLUG INJECTION OF 212 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F32.00 AT 1010 HOURS, SEPTEMBER 2, 1987							
F32.00	0.00	90.7	--	--	--	--	--
F29.47	2.53	90.7	1.24	1.40	1.87	2.04	3.53
F25.25	6.75	77.7	1.44	2.30	2.66	2.93	4.17
SLUG INJECTION OF 225 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F36.80 AT 0745 HOURS, SEPTEMBER 3, 1987							
F36.80	0.00	73.4	--	--	--	--	--
F34.88	1.92	73.4	1.39	0.92	1.25	1.38	2.32
F29.47	7.33	68.6	1.31	3.16	3.83	4.14	6.60
SLUG INJECTION OF 230 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F45.22 AT 0842 HOURS, SEPTEMBER 3, 1987							
F45.22	0.00	84.7	--	--	--	--	--
F43.66	1.56	84.7	1.70	0.72	0.82	0.92	1.55
F40.41	4.81	95.0	1.27	1.58	2.08	2.56	6.30
F39.19	6.03	91.8	1.67	.83	.73	.73	.95
SLUG INJECTION OF 154 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F48.60 AT 0815 HOURS, SEPTEMBER 4, 1987							
F48.60	0.00	86.0	--	--	--	--	--
F46.95	1.65	86.0	1.53	0.82	1.02	1.09	1.68
F43.66	4.94	95.0	1.64	1.43	1.76	1.99	3.50
F40.41	8.19	107	1.49	1.88	2.02	2.18	3.12
SLUG INJECTION OF 194 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F39.19 AT 0946 HOURS, SEPTEMBER 4, 1987							
F39.19	0.00	59.1	--	--	--	--	--
F37.43	1.69	59.1	1.26	0.88	1.22	1.34	2.55
SLUG INJECTION OF 30 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F62.98 AT 1012 HOURS, SEPTEMBER 30, 1987							
F62.98	0.00	5.41	--	--	--	--	--
F60.74	2.24	5.41	0.86	1.80	2.50	2.59	4.10
F59.30	3.68	6.00	.80	1.83	1.72	1.79	1.70
SLUG INJECTION OF 52 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F52.31 AT 0817 HOURS, OCTOBER 1, 1987							
F52.31	0.00	8.25	--	--	--	--	--
F50.61	1.70	8.25	0.81	1.68	2.03	2.11	3.03
F48.68	3.63	32.9	1.26	1.20	1.44	1.53	1.94
F46.95	5.38	42.6	1.18	1.25	1.25	1.48	2.08

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Cumulative traveltime of dye cloud: Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)	Cumulative average velocity of dye cloud (miles per hour)	Time for dye cloud to pass site (hours)	Peak dye concentration (micrograms per liter)
SLUG INJECTION OF 212 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F32.00 AT 1010 HOURS, SEPTEMBER 2, 1987							
F32.00	--	--	--	--	--	--	--
F29.47	1.40	1.87	2.04	3.53	1.24	2.13	8.05
F25.25	3.70	4.53	4.97	7.70	1.36	4.00	2.78
SLUG INJECTION OF 225 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F36.80 AT 0745 HOURS, SEPTEMBER 3, 1987							
F36.80	--	--	--	--	--	--	--
F34.88	0.92	1.25	1.38	2.32	1.39	1.40	18.6
F29.47	4.08	5.08	5.52	8.92	1.33	4.84	2.50
SLUG INJECTION OF 230 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F45.22 AT 0842 HOURS, SEPTEMBER 3, 1987							
F45.22	--	--	--	--	--	--	--
F43.66	0.72	0.82	0.92	1.55	1.70	0.83	26.9
F40.41	2.30	2.90	3.48	7.85	1.38	5.55	5.85
F39.19	3.13	3.63	4.21	8.80	1.43	5.67	3.40
SLUG INJECTION OF 154 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F48.60 AT 0815 HOURS, SEPTEMBER 4, 1987							
F48.60	--	--	--	--	--	--	--
F46.95	0.82	1.02	1.09	1.68	1.53	0.86	13.0
F43.66	2.25	2.78	3.08	5.18	1.60	2.93	4.15
F40.41	4.13	4.80	5.26	8.30	1.56	4.17	1.98
SLUG INJECTION OF 194 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F39.19 AT 0946 HOURS, SEPTEMBER 4, 1987							
F39.19	--	--	--	--	--	--	--
F37.43	0.88	1.22	1.34	2.55	1.26	1.67	23.4
SLUG INJECTION OF 30 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F62.98 AT 1012 HOURS, SEPTEMBER 30, 1987							
F62.98	--	--	--	--	--	--	--
F60.74	1.80	2.50	2.59	4.10	0.86	2.30	24.4
F59.30	3.63	4.22	4.38	5.80	.84	2.17	15.0
SLUG INJECTION OF 52 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F52.31 AT 0817 HOURS, OCTOBER 1, 1987							
F52.31	--	--	--	--	--	--	--
F50.61	1.68	2.03	2.11	3.03	.81	1.35	30.4
F48.68	2.88	3.47	3.64	4.97	1.00	2.09	2.60
F46.95	4.13	4.72	5.12	7.05	1.05	2.92	.82

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Distance downstream from injection (miles)	Discharge (cubic feet per second)	Average velocity of dye cloud between sites (miles per hour)	Traveltime of dye cloud between sites			
				Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)
SLUG INJECTION OF 22 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F66.00 AT 1320 HOURS, OCTOBER 1, 1987							
F66.00	0.00	1.14	--	--	--	--	--
F65.00	1.00	1.14	0.81	1.05	1.18	1.24	1.77
F62.98	3.02	4.04	.77	2.20	2.47	2.61	3.88
SLUG INJECTION OF 27 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F58.00 AT 0910 HOURS, OCTOBER 2, 1987							
F58.00	0.00	5.14	--	--	--	--	--
F56.90	1.10	5.21	0.65	1.40	1.67	1.70	2.17
F53.84	4.16	8.26	.85	3.43	3.56	3.60	3.96
SLUG INJECTION OF 24 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F60.74 AT 0922 HOURS, OCTOBER 2, 1987							
F60.74	0.00	5.14	--	--	--	--	--
F59.30	1.44	5.14	0.91	1.35	1.57	1.59	1.92
F58.00	2.74	5.38	.98	1.27	1.31	1.33	1.50
SLUG INJECTION OF 60 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F55.00 AT 0930 HOURS, MAY 23, 1988							
F55.00	0.00	14.1	--	--	--	--	--
F53.84	1.16	14.1	1.09	0.77	1.03	1.06	1.57
F50.61	4.39	17.3	.97	2.90	3.14	3.34	5.35
F48.68	6.32	103	1.53	.83	1.00	1.26	1.75
SLUG INJECTION OF 36 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F62.52 AT 0830 HOURS, MAY 24, 1988							
F66.52	0.00	4.93	--	--	--	--	--
F65.00	1.52	4.93	1.27	0.98	1.18	1.20	1.68
F62.98	3.54	9.08	1.10	1.74	1.79	1.84	2.34
F59.50	7.02	9.53	1.16	2.61	2.86	3.01	4.31
SLUG INJECTION OF 85 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F59.50 AT 0800 HOURS, MAY 24, 1988							
F59.50	0.00	10.2	--	--	--	--	--
F58.00	1.50	10.2	1.01	1.25	1.45	1.48	2.02
F56.90	2.60	11.5	.92	1.08	1.13	1.19	1.46
F53.84	5.66	14.1	1.00	2.75	3.00	3.05	4.19
SLUG INJECTION OF 185 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F23.00 AT 1020 HOURS, MAY 25, 1988							
F23.00	0.00	75.6	--	--	--	--	--
F20.85	2.15	75.6	1.24	1.32	1.62	1.74	2.77
F15.00	8.00	51.2	1.52	3.35	3.63	3.84	4.98

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Cumulative traveltime of dye cloud: Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)	Cumulative average velocity of dye cloud (miles per hour)	Time for dye cloud to pass site (hours)	Peak dye concentration (micrograms per liter)
SLUG INJECTION OF 22 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F66.00 AT 1320 HOURS, OCTOBER 1, 1987							
F66.00	--	--	--	--	--	--	--
F65.00	1.05	1.18	1.24	1.77	0.81	0.72	182
F62.98	3.25	3.65	3.85	5.65	.78	2.40	15.0
SLUG INJECTION OF 27 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F58.00 AT 0910 HOURS, OCTOBER 2, 1987							
F58.00	--	--	--	--	--	--	--
F56.90	1.40	1.67	1.70	2.17	0.65	0.77	40.9
F53.84	4.83	5.23	5.30	6.13	.78	1.30	10.2
SLUG INJECTION OF 24 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F60.74 AT 0922 HOURS, OCTOBER 2, 1987							
F60.74	--	--	--	--	--	--	--
F59.30	1.35	1.57	1.59	1.92	0.91	0.57	29.9
F58.00	2.62	2.88	2.92	3.42	.94	.80	18.3
SLUG INJECTION OF 60 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F55.00 AT 0930 HOURS, MAY 23, 1988							
F55.00	--	--	--	--	--	--	--
F53.84	0.77	1.03	1.06	1.57	1.09	0.80	39.0
F50.61	3.67	4.17	4.40	6.92	1.00	3.25	9.92
F48.68	4.50	5.17	5.66	8.67	1.12	4.17	0.76
SLUG INJECTION OF 36 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F62.52 AT 0830 HOURS, MAY 24, 1988							
F66.52	--	--	--	--	--	--	--
F65.00	0.98	1.18	1.20	1.68	1.27	0.70	79.9
F62.98	2.72	2.97	3.04	4.02	1.16	1.30	20.3
F59.50	5.33	5.83	6.05	8.33	1.16	3.00	7.25
SLUG INJECTION OF 85 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F59.50 AT 0800 HOURS, MAY 24, 1988							
F59.50	--	--	--	--	--	--	--
F58.00	1.25	1.45	1.48	2.02	1.01	0.77	79.0
F56.90	2.33	2.58	2.67	3.48	0.97	1.15	44.0
F53.84	5.08	5.58	5.72	7.67	0.99	2.59	16.0
SLUG INJECTION OF 185 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F23.00 AT 1020 HOURS, MAY 25, 1988							
F23.00	--	--	--	--	--	--	--
F20.85	1.32	1.62	1.74	2.77	1.24	1.45	8.40
F15.00	4.67	5.25	5.58	7.75	1.43	3.08	2.40

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Distance downstream from injection (miles)	Discharge (cubic feet per second)	Average velocity of dye cloud between sites (miles per hour)	Traveltime of dye cloud between sites			
				Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)
SLUG INJECTION OF 130 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F16.90 AT 0800 HOURS, MAY 25, 1988							
F16.90	0.00	51.2	--	--	--	--	--
F15.00	1.90	51.2	1.51	0.90	1.15	1.26	2.08
F6.95	9.95	56.3	1.36	4.68	5.43	5.94	7.92
SLUG INJECTION OF 142 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F8.00 AT 0735 HOURS, MAY 25, 1988							
F8.00	0.00	65.7	--	--	--	--	--
F6.95	1.05	65.7	1.31	0.57	0.73	0.80	1.43
F0.00	8.00	55.9	1.39	4.01	4.69	4.99	6.82
SLUG INJECTION OF 150 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M13.44 AT 0945 HOURS, MAY 26, 1988							
M13.44	0.00	78.2	--	--	--	--	--
M11.43	2.01	78.2	2.16	0.72	0.88	0.93	1.38
M7.34	6.10	88.0	1.91	1.80	2.04	2.14	2.89
M4.94	8.50	98.4	1.95	1.11	1.21	1.23	2.31
SLUG INJECTION OF 175 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M7.34 AT 0925 HOURS, MAY 26, 1988							
M7.34	0.00	98.4	--	--	--	--	--
M4.94	2.40	98.4	1.97	0.90	1.10	1.22	2.15
M0.00	7.34	97.8	1.72	2.22	2.42	2.87	5.17
SLUG INJECTION OF 130 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M23.67 AT 0930 HOURS, MAY 27, 1988							
M23.67	0.00	51.5	--	--	--	--	--
M22.02	1.65	51.5	1.76	0.72	0.88	0.94	1.55
M18.56	5.11	62.7	1.77	1.81	1.90	1.96	3.03
SLUG INJECTION OF 124 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M18.56 AT 0730 HOURS, MAY 27, 1988							
M18.56	0.00	62.7	--	--	--	--	--
M16.41	2.15	72.7	1.90	0.93	1.10	1.13	1.53
M11.43	7.13	68.7	1.81	2.55	2.63	2.75	3.65

Table 5.--*Dye-cloud characteristics for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Cumulative traveltime of dye cloud: Leading edge (hours)	Peak (hours)	Centroid (hours)	Trailing edge (hours)	Cumulative average velocity of dye cloud (miles per hour)	Time for dye cloud to pass site (hours)	Peak dye concentration (micrograms per liter)
SLUG INJECTION OF 130 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F16.90 AT 0800 HOURS, MAY 25, 1988							
F16.90	--	--	--	--	--	--	--
F15.00	0.90	1.15	1.26	2.08	1.51	1.18	11.7
F6.95	5.58	6.58	7.20	10.0	1.38	4.42	1.27
SLUG INJECTION OF 142 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE F8.00 AT 0930 HOURS, MAY 25, 1988							
F8.00	--	--	--	--	--	--	--
F6.95	0.57	0.73	0.80	1.43	1.31	0.86	15.0
F0.00	4.58	5.42	5.79	8.25	1.38	3.67	1.58
SLUG INJECTION OF 150 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M13.44 AT 0945 HOURS, MAY 26, 1988							
M13.44	--	--	--	--	--	--	--
M11.43	0.72	0.88	0.93	1.38	2.16	0.66	18.9
M7.34	2.52	2.92	3.07	4.27	1.99	1.75	5.45
M4.94	3.63	4.13	4.30	6.58	1.98	2.95	2.63
SLUG INJECTION OF 175 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M7.34 AT 0935 HOURS, MAY 26, 1988							
M7.34	--	--	--	--	--	--	--
M4.94	0.90	1.10	1.22	2.15	1.97	1.25	9.43
M0.00	3.12	3.52	4.09	7.32	1.79	4.20	2.38
SLUG INJECTION OF 130 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M23.67 AT 0930 HOURS, MAY 27, 1988							
M23.67	--	--	--	--	--	--	--
M22.02	0.72	0.88	0.94	1.55	1.76	0.83	27.0
M18.56	2.53	2.78	2.90	4.58	1.76	2.05	7.25
SLUG INJECTION OF 124 MILLILITERS OF 20-PERCENT DYE SOLUTION AT SITE M18.56 AT 0730 HOURS, MAY 27, 1988							
M18.56	--	--	--	--	--	--	--
M16.41	0.93	1.10	1.13	1.53	1.90	0.60	20.5
M11.43	3.48	3.73	3.88	5.18	1.84	1.70	6.45

[1]All listed traveltimes and velocities for continuous injection are computed on the basis of beginning of injection period.

Table 6.--*Peak ethylene, propane, and dye concentrations for reaeration measurements on Fountain Creek and Monument Creek*

[Dashes indicate not applicable or no data]

Hydrologic data site number (table 1)	Date	Distance downstream from injection (miles)	Peak concentration (micrograms per liter)		
			Ethylene	Propane	Dye
M11.43	10-22-86	0.00	--	--	--
M9.91		1.52	24.2	--	7.35
M8.63		2.80	.60	--	4.75
M18.56	10-23-86	0.00	--	--	--
M17.46		1.10	13.8	--	35.0
M17.21		1.35	7.60	--	32.0
F55.85	10-28-86	0.00	--	--	--
F55.00		.85	33.8	21.3	18.4
F54.61		1.24	3.85	7.40	12.6
F53.84		2.01	.31	--	12.6
F59.50	10-29-86	0.00	--	--	--
F59.30		.20	--	148	12.2
F59.15		.35	--	39.8	10.4
F65.00	10-31-86	0.00	--	--	--
F64.58		.42	--	132	43.9
F63.98		1.02	--	10.3	19.0
F6.95	04-07-87	0.00	--	--	--
F4.50		2.45	7.21	3.15	13.1
F4.00		2.95	4.35	1.97	9.70
F2.60		4.35	1.49	.69	8.40
F0.00		6.95	.14	.04	6.00
F16.90	04-08-87	0.00	--	--	--
F15.00		1.90	--	5.92	14.4
F14.00		2.90	--	2.99	13.5
F12.55		4.35	--	1.15	9.95
F10.90		6.00	--	.59	8.20
F26.90	04-09-97	0.00	--	--	--
F25.25		1.65	--	20.2	21.1
F24.00		2.90	--	6.87	16.1
F23.00		3.90	--	3.29	12.6
F40.41	04-09-87	0.00	--	--	--
F38.60		1.81	--	7.90	14.1
F37.43		2.98	--	4.11	12.6
F35.85		4.56	--	2.06	11.1
F34.88		5.91	--	1.24	9.97
F48.60	04-10-87	0.00	--	--	--
F46.95		1.65	--	15.5	15.2
F45.22		3.38	--	3.62	9.95
F43.66		4.94	--	1.29	9.58

Table 7.--*Discharge data for traveltime and reaeration measurements on Fountain Creek and Monument Creek*

Hydrologic data site number (table 1)	Date of measurement	Time of measurement	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
M23.68	10-29-86	0752	1.16	11.2	2.46	0.47
M22.65	10-29-86	0845	1.12	7.0	1.90	.59
M22.02	07-09-86	1715	10.3	11.0	5.74	1.79
	10-29-86	0922	1.14	6.4	1.75	.65
	05-27-88	1040	51.5	19.0	15.9	3.24
M20.39	07-09-86	1925	13.7	21.0	9.49	1.44
	10-30-86	1100	2.98	13.2	4.87	.61
M18.56	07-09-86	2110	12.6	15.2	9.83	1.28
	10-23-86	0800	3.64	6.9	5.82	.63
	05-27-88	1310	62.7	25.0	21.2	2.96
M17.46	07-09-86	2320	13.4	10.0	6.82	1.96
	10-23-86	0935	3.88	12.5	4.25	.91
M17.21	10-23-86	1040	4.07	15.5	6.19	.66
M16.41	10-23-86	1730	4.19	12.5	4.37	.96
	05-27-88	0815	72.7	20.0	21.2	3.43
M13.44	07-10-86	1140	17.3	14.3	8.71	1.99
M11.43	07-09-86	0730	17.6	16.8	7.62	2.31
	10-22-86	0812	8.68	10.6	4.81	1.80
	10-24-86	0920	16.9	12.4	8.56	1.97
	05-26-88	1000	78.2	36.5	23.6	3.31
	05-27-88	1225	68.7	34.0	21.2	3.24
M9.91	10-22-86	0945	9.68	13.5	4.53	2.14
	10-24-86	1035	19.1	12.5	7.70	2.48
M8.63	10-22-86	1132	10.5	19.3	5.79	1.82
M7.34	10-22-86	1345	13.4	22.0	5.55	2.41
	10-24-86	1100	23.4	32.3	9.17	2.55
	05-26-88	1555	88.0	59.0	31.0	2.84
M6.13	10-22-86	1532	13.4	21.0	5.16	2.59
M4.94	10-22-86	1750	13.4	26.0	6.13	2.19
	05-26-88	1440	98.4	37.5	26.0	3.78
M3.69	10-24-86	1410	25.2	39.5	11.78	2.13
M3.48	10-22-86	1638	17.1	27.2	8.56	2.00
M0.00	10-24-86	1620	23.7	13.8	8.48	2.80
	05-26-88	1405	97.8	29.0	24.4	4.01
F65.00	10-01-87	1340	1.14	4.0	.77	1.48
	05-24-88	0840	4.93	6.7	2.24	2.20

Table 7.--*Discharge data for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Date of measure-ment	Time of measure-ment	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
F64.58	10-31-86	0845	2.74	6.6	1.84	1.49
F63.98	10-31-86	0955	4.98	6.4	2.61	1.91
F63.38	10-31-86	1150	5.33	9.5	3.15	1.52
F62.98	10-01-87	1535	4.04	10.5	3.20	1.26
	05-24-88	1215	9.08	9.7	4.39	2.07
F60.74	10-31-86	1310	5.92	6.6	2.62	2.26
	09-30-87	1040	5.41	6.4	3.25	1.66
F59.50	10-29-86	1237	7.61	9.6	3.81	2.00
	05-24-88	1300	9.53	8.7	5.24	1.82
F59.30	09-30-87	1515	6.00	10.3	4.20	1.49
F58.00	10-02-87	0945	5.14	6.8	3.87	1.33
		1420	5.38	7.0	4.62	1.16
	05-24-88	0830	10.2	7.2	5.40	1.89
F56.90	09-30-87	1225	5.21	11.0	4.90	1.06
	05-24-88	1130	11.5	17.0	7.40	1.55
F55.85	10-28-86	0828	7.05	12.0	4.79	1.47
F54.61	10-28-86	1300	7.89	12.1	4.61	1.71
F53.84	10-02-87	1325	8.26	10.6	4.18	1.98
	05-23-88	1045	15.8	12.2	6.12	2.58
	05-24-88	1230	14.1	12.0	6.36	2.22
F53.47	10-28-86	1400	9.09	17.5	6.12	1.49
F52.31	10-28-86	1250	8.86	24.1	8.88	1.00
F50.61	10-28-86	1500	8.92	17.1	6.44	1.39
	10-01-87	0840	8.25	13.5	4.59	1.80
	05-23-88	1155	17.3	16.7	8.75	1.98
F49.34	10-28-86	1540	28.5	30.0	12.4	2.30
F48.68	10-01-87	1050	32.9	32.5	16.9	1.95
	05-23-88	1345	103.0	88.5	39.3	2.62
F46.95	04-10-87	1135	106	65.0	44.1	2.40
	09-04-87	0845	76.6	33.0	27.0	2.84
	10-01-87	1215	42.6	29.0	28.3	1.50
F45.22	04-10-87	1000	124	67.5	43.0	2.88
F43.66	04-10-87	1135	140	98.0	49.3	2.84
	09-03-87	0920	84.7	75.0	32.6	2.60
	09-04-87	1400	86.3	80.0	36.1	2.39

Table 7.--*Discharge data for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Date of measure-ment	Time of measure-ment	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
F40.41	04-03-87	1115	121	74.0	41.4	2.92
	04-10-87	1342	129	74.5	44.5	2.90
	09-03-87	1040	73.4	70.0	35.2	2.09
F39.19	09-03-87	1135	91.8	72.0	36.6	2.51
F37.43	04-09-87	1420	152	83.0	52.6	2.89
	09-04-87	1025	59.1	39.0	21.8	2.71
F35.85	04-09-87	1520	153	72.0	50.9	3.01
F35.70	04-03-87	1550	145	51.0	43.6	3.34
F34.88	04-09-87	1630	157	75.0	49.6	3.17
	09-03-87	1405	92.6	71.0	35.7	2.59
F31.38	04-03-87	1335	119	77.5	44.4	2.67
F29.47	04-03-87	0950	127	47.0	40.2	3.16
	09-02-87	1055	107	61.0	38.2	2.80
	09-03-87	1500	68.6	53.0	28.1	2.44
F25.25	04-02-87	1750	130	103	50.5	2.58
	04-03-87	1451	121	103	50.2	2.41
	04-09-87	0845	158	91.0	53.1	2.98
	09-02-87	1450	77.4	61.0	31.6	2.45
F24.00	04-09-87	0829	145	139	61.6	2.36
F23.00	04-09-87	1019	147	74.0	49.6	2.96
F20.85	04-02-87	1442	135	67.5	48.6	2.78
	09-01-87	1155	104	76.0	39.8	2.61
	09-02-87	1305	90.7	75.0	36.0	2.52
	05-25-88	1045	75.6	58.0	31.0	2.44
F15.00	04-02-87	0933	147	67.5	47.0	3.13
	04-08-87	1020	131	63.0	41.2	3.18
	09-01-87	0925	116	83.0	40.8	2.84
	05-25-88	1760	51.2	56.0	20.4	2.50
F14.00	04-08-87	1044	151	76.5	50.1	3.01
F12.55	10-08-87	1300	151	76.0	51.4	2.94
F10.90	04-01-87	1250	144	87.0	48.8	2.95
	04-02-87	1310	157	96.0	58.9	2.67
	04-08-87	1457	150	84.0	52.5	2.86
	08-31-87	1340	120	91.0	43.3	2.77
	09-01-87	1345	94.3	98.0	38.2	2.47

Table 7.--*Discharge data for traveltime and reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Date of measure-ment	Time of measure-ment	Discharge (cubic feet per second)	Width (feet)	Area (square feet)	Velocity (feet per second)
F6.95	04-01-87	1035	153	123	59.5	2.57
	04-07-87	0912	143	124	55.3	2.59
	08-31-87	1450	123	66.0	43.4	2.84
	05-25-88	0730	65.7	59.0	28.0	2.35
	05-25-88	1605	56.3	62.0	23.2	2.43
F5.30	04-07-87	1035	149	70.0	48.4	3.08
	04-08-87	1555	150	70.0	48.2	3.12
F4.50	04-07-87	1018	150	68.5	50.6	2.96
F4.00	04-07-87	1155	146	59.0	44.6	3.27
F2.60	04-01-87	1510	149	97.5	52.5	2.84
	04-07-87	1515	140	79.0	47.3	2.96
F0.00	04-01-87	1620	142	73.0	48.7	2.91
	04-07-87	1645	156	78.0	56.5	2.77
	08-31-87	1635	119	61.0	39.3	3.02
	05-25-88	1130	55.9	37.0	21.6	2.59

Table 8.--*Channel-geometry data for reaeration measurements on Fountain Creek and Monument Creek*

Hydrologic data site number (table 1)	Date	Time	Cross-section number	Width (feet)	Area (square feet)	Average depth (feet)
M22.65	10-29-86	0845	1	6.5	0.84	0.13
			2	7.1	2.86	.40
			3	7.0	3.60	.51
			4	7.8	2.29	.29
			5	7.6	1.78	.23
M22.02	10-29-86	0922	1	10.0	1.81	.18
			2	7.0	1.68	.24
			3	7.0	1.88	.27
			4	7.5	2.32	.31
M20.39	10-30-86	1100	1	12.7	3.48	.27
			2	18.0	17.8	.99
			3	16.8	3.29	.20
			4	11.6	5.46	.47
M17.46	10-23-86	0935	1	9.0	2.42	.27
			2	19.0	14.7	.78
			3	18.0	13.8	.77
			4	12.0	4.20	.35
			5	17.5	17.2	.98
			6	14.0	3.34	.24
M17.21	10-23-86	1040	1	10.0	4.51	.45
			2	9.4	2.72	.29
			3	30.0	16.2	.54
			4	16.5	4.97	.30
M16.41	10-23-86	1730	1	9.5	2.92	.31
			2	15.5	8.40	.54
			3	15.0	8.32	.55
M9.91	10-22-86	0945	1	11.5	4.92	.43
			2	14.5	5.49	.38
			3	19.0	5.10	.27
			4	16.0	5.16	.32
			5	11.8	4.95	.42
M8.63	10-22-86	1132	1	21.0	5.92	.28
			2	12.0	5.65	.47
			3	16.3	5.00	.31
			4	21.3	6.13	.29
M7.34	10-22-86	1345	1	36.7	6.82	.19
			2	40.0	7.65	.19
			3	37.0	7.27	.20
			4	30.0	7.45	.25

Table 8.--*Channel-geometry data for reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Date	Time	Cross-section number	Width (feet)	Area (square feet)	Average depth (feet)
M6.13	10-22-86	1532	1	39.0	7.52	0.19
			2	49.5	8.49	.17
			3	41.0	8.40	.20
			4	42.0	10.2	.24
M4.94	10-22-86	1750	1	24.0	7.60	.32
			2	37.0	8.79	.24
M3.48	10-22-86	1638	1	39.0	9.86	.25
			2	44.0	10.3	.23
M1.44	10-22-86	1900	1	47.5	12.2	.26
			2	78.0	10.3	.13
			3	84.0	11.3	.13
			4	67.5	10.7	.16
F64.58	10-31-86	0845	1	9.8	3.35	.34
			2	9.5	2.32	.24
F63.98	10-31-86	0955	1	3.2	1.98	.62
			2	8.1	2.45	.30
			3	8.4	2.32	.28
			4	5.0	2.55	.51
F63.38	10-31-86	1150	1	8.4	2.51	.30
			2	8.4	2.60	.31
			3	6.8	2.44	.36
			4	7.7	2.47	.32
F62.87	10-31-86	1130	1	11.0	3.12	.28
			2	9.0	2.96	.33
F59.15	10-29-86	1315	1	13.0	4.62	.36
			2	9.3	4.37	.47
			3	12.0	4.60	.38
			4	12.5	3.84	.31
F55.36	10-28-86	1155	1	10.0	3.85	.38
			2	13.0	4.61	.35
			3	16.8	5.60	.33
F55.00	10-28-86	1230	1	14.0	5.25	.37
			2	12.0	4.95	.41
			3	14.0	5.41	.39
F54.61	10-28-86	1300	1	13.4	5.39	.40
			2	11.0	6.05	.55

Table 8.--*Channel-geometry data for reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Date	Time	Cross-section number	Width (feet)	Area (square feet)	Average depth (feet)
F53.84	10-28-86	1020	1	11.5	5.69	0.49
			2	13.8	5.29	.38
			3	16.0	5.60	.35
			4	10.3	4.80	.47
F53.47	10-28-86	1400	1	13.5	5.96	.44
			2	11.5	6.25	.54
F52.31	10-28-86	1250	1	23.7	13.1	.55
			2	14.6	8.17	.56
			3	11.6	6.97	.60
F50.61	10-28-86	1500	1	11.5	5.95	.52
			2	26.2	8.24	.31
			3	19.0	7.05	.37
F46.95	04-10-87	1135	1	46.5	42.3	.90
			2	41.0	39.7	.96
F45.22	04-10-87	1000	1	69.5	43.1	.62
			2	51.5	44.9	.87
F43.66	04-10-87	1135	1	85.0	54.5	.64
			2	68.0	46.4	.68
F40.41	04-10-87	1342	1	98.5	56.0	.56
			2	83.0	49.7	.60
F38.60	04-09-87	1312	1	43.0	44.6	1.03
			2	65.0	46.2	.71
F37.43	04-09-87	1420	1	68.0	51.3	.76
			2	52.0	47.8	.92
F35.85	04-09-87	1520	1	92.0	53.9	.58
			2	81.0	52.3	.64
F34.88	04-09-87	1630	1	87.0	54.1	.62
			2	136	59.1	.43
F25.25	04-09-87	0845	1	91.0	53.1	.58
			2	116	58.9	.50
F24.00	04-09-87	0829	1	139	61.6	.44
			2	138	60.8	.44
			3	121	61.6	.51
F23.00	04-09-87	1019	1	74.0	49.6	.67
			2	76.0	47.9	.63
F15.00	04-08-87	1020	1	110	53.5	.48
			2	114	54.3	.47

Table 8.--*Channel-geometry data for reaeration measurements on Fountain Creek and Monument Creek*--Continued

Hydrologic data site number (table 1)	Date	Time	Cross-section number	Width (feet)	Area (square feet)	Average depth (feet)
F14.00	04-08-87	1044	1	98.5	52.2	0.53
			2	83.0	49.7	.60
F12.55	04-08-87	1340	1	93.0	57.6	.62
			2	91.0	55.9	.61
			3	77.0	51.1	.66
			4	63.0	48.6	.77
F10.90	04-08-87	1457	1	100	51.3	.51
			2	99.0	53.5	.54
F5.30	04-07-87	1035	1	71.0	50.0	.70
			2	101	50.3	.50
F4.50	04-07-87	1018	1	105	58.8	.56
			2	125	57.2	.46
F4.00	04-07-87	1155	1	62.0	48.3	.78
			2	64.0	44.6	.70
			3	59.0	45.7	.77
			4	71.0	50.8	.71
F2.60	04-07-87	1515	1	97.0	51.7	.53
			2	60.0	49.9	.83
F0.00	04-07-87	1645	1	208	74.8	.36
			2	137	64.9	.40