

# **Rocky Flats Environmental Technology Site**

## **Quarterly Environmental Monitoring Report**



**January - March 1998**

Rocky Flats Environmental Technology Site  
P.O. Box 464 • Golden, CO 80402-0464

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# ***Rocky Flats Environmental Technology Site***

## ***Quarterly Environmental Monitoring Report***

### ***January - March Highlights***

This report is produced and distributed quarterly as part of our ongoing Agreement in Principle and as a forum for the Rocky Flats Cleanup Agreement (RFCA) quarterly reporting requirement. Additional information about quarterly reporting will be formalized after completion of the Integrated Monitoring Plans (IMP) for the various media sampled.

#### ***Airborne Effluent***

Complete isotopic analytical data for calendar year 1997 are included in this report. In 1997, 16 samplers were upgraded to a shrouded probe sampler as required by a 1994 agreement between DOE and EPA. Data from the new samplers were used for Buildings 559 and 374 for periods of November and December and for Buildings 771 and 774 for the period of December.

Samplers in two buildings presented special problems in 1997. In Building 991, location 985 and MAI, the samplers only ran during January, yet filters were exchanged and samples collected for the entire year (on a monthly basis). The samples were composited into one sample for an annual analysis. The calculated emissions shown in this report have therefore been annualized using a measured concentration based on January sampler flow.

In Building 778, location 778-LDY, there was no effluent flow through the duct for the entire year. However, the samplers continued to withdraw a sample of the airstream and filters were collected monthly and composited for the year. To calculate a release from this duct, effluent flow was estimated by calculating the air expansion and contraction due to average daily temperature changes.

Tritium data for 1997 are complete and are included in this report. For the months of October and November, for two locations, the volumes used for calculating the tritium sample concentration are estimated values recorded at the time of sample changes. The volumes needed for concentration calculations are ordinarily provided by the laboratory that performs the analyses. However, the laboratory responsible for the above samples did not document these volumes, so estimates were utilized.

Incomplete isotopic analyses and tritium data for samples collected during first quarter 1998 (January - March) will be reported when available.

#### ***Ambient Air***

Complete isotopic analytical data for calendar year 1997 for coarse ( $> 10$  micrometers) and fine ( $< 10$  micrometers) particles are included in this report. In May, for location S-107, the fiberglass (fine) and impactor pad (coarse) filters were placed in the same envelope for storage. As a result of the cross-contamination of the samples, only the total concentration and error should be used. In March, only the second half of the month's sample for location S-007 was analyzed, as the first half was lost. In July, part of the samples for locations S-007 and S-038 were lost, no analyses were performed since these results are used only for comparison with collocated size-fractionating sample results.

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Incomplete isotopic analyses for samples collected during first quarter 1998 (January - March) will be reported when available.

### ***Meteorology and Climatology***

Meteorological data are routinely measured from instrumentation on a 61-meter tower located in the west buffer zone at an elevation of 1,870 meters (6,140 feet) above sea level. The Climatic summaries and windroses were not available at the time of report generation as a result of data processing problems. Climatic summaries for October 1997 through the present will be reported when available. All meteorological data are being collected on a real-time basis and are loaded into the Computer Assisted Protective Action Recommendations System (CAPARS) model for emergency response purposes.

### ***Surface Water***

Surface water analytical data collected during the first quarter 1998 (January - March) for NPDES/FCA permit compliance are presented in this report. All reported analytical data are consistent with historical measurements and within permit limitations.

### ***Hydrologic Monitoring and Rocky Flats Cleanup Agreement (RFCA) Monitoring***

Analytical data for first quarter 1998 (January - March) from samples collected for RFCA and Hydrologic Monitoring are included in this report. Four new locations were installed and made operational during the quarter, GS34, GS38, GS39 and GS40. These locations are not included in the map for this section, but location descriptions, program information, and general sample types collected are included with the hydrographs and flow data for the respective locations.

## Section 1: Air Data

**Table 1-1 Plutonium and Americium Airborne Effluent Data**

Month	Plutonium-239		Americium-241	
	Release ( $\mu\text{Ci}$ )	C Maximum ( $\text{pCi}/\text{m}^3$ )	Release ( $\mu\text{Ci}$ )	C Maximum ( $\text{pCi}/\text{m}^3$ )
<b>CY 1996</b>				
Jan – Dec	1.0590 $\pm$ 0.0918	0.0036 $\pm$ 0.0004	0.3274 $\pm$ 0.0351	0.0007 $\pm$ 0.0001
<b>CY 1997</b>				
January	0.0094 $\pm$ 0.0116	0.0001 $\pm$ 0.0001	0.0004 $\pm$ 0.0077	0.0000 $\pm$ 0.0001
February	0.0116 $\pm$ 0.0069	0.0000 $\pm$ 0.0000	-0.0002 $\pm$ 0.0010	0.0000 $\pm$ 0.0000
March	0.0080 $\pm$ 0.0035	0.0001 $\pm$ 0.0000	-0.0056 $\pm$ 0.0043	0.0000 $\pm$ 0.0000
April	0.0154 $\pm$ 0.0106	0.0002 $\pm$ 0.0001	-0.0006 $\pm$ 0.0097	0.0000 $\pm$ 0.0001
May	0.0254 $\pm$ 0.0137	0.0005 $\pm$ 0.0000	0.0365 $\pm$ 0.0184	0.0007 $\pm$ 0.0000
June	0.0179 $\pm$ 0.0247	0.0001 $\pm$ 0.0000	-0.0063 $\pm$ 0.0147	0.0000 $\pm$ 0.0000
July	0.0096 $\pm$ 0.0059	0.0001 $\pm$ 0.0000	-0.0054 $\pm$ 0.0072	0.0000 $\pm$ 0.0000
August	0.0434 $\pm$ 0.0217	0.0001 $\pm$ 0.0001	-0.0021 $\pm$ 0.0156	0.0000 $\pm$ 0.0000
September	-0.0027 $\pm$ 0.0142	0.0000 $\pm$ 0.0000	0.0014 $\pm$ 0.0213	0.0000 $\pm$ 0.0001
October	0.0181 $\pm$ 0.0144	0.0001 $\pm$ 0.0001	-0.0035 $\pm$ 0.0105	0.0000 $\pm$ 0.0000
November	0.0095 $\pm$ 0.0069	0.0008 $\pm$ 0.0001	0.0002 $\pm$ 0.0066	0.0000 $\pm$ 0.0000
December	0.0079 $\pm$ 0.0037	0.0001 $\pm$ 0.0001	-0.0004 $\pm$ 0.0045	0.0000 $\pm$ 0.0001
Year to Date	0.1735 $\pm$ 0.0456	0.0008 $\pm$ 0.0001	0.0144 $\pm$ 0.0406	0.0007 $\pm$ 0.0000
<b>CY 1998</b>				
January	a	a	a	a
February	a	a	a	a
March	a	a	a	a
Year to Date	a	a	a	a

a Data is unavailable because of incomplete laboratory analysis. Results will be reported when available.

**Table 1-2 Uranium Airborne Effluent Data**

Month	Uranium-233, -234		Uranium-238	
	Release ( $\mu\text{Ci}$ )	C Maximum ( $\text{pCi}/\text{m}^3$ )	Release ( $\mu\text{Ci}$ )	C Maximum ( $\text{pCi}/\text{m}^3$ )
<b>CY 1996</b>				
Jan – Dec	-0.0391 ± 1.1258	0.0016 ± 0.0006	1.2560 ± 1.1556	0.0033 ± 0.0006
<b>CY 1997</b>				
January	-0.0673 ± 0.0368	0.0004 ± 0.0004	-0.0620 ± 0.0382	0.0003 ± 0.0004
February	-0.0459 ± 0.0411	0.0001 ± 0.0002	-0.0432 ± 0.0425	0.0001 ± 0.0002
March	-0.1460 ± 0.0219	0.0007 ± 0.0004	-0.1616 ± 0.0206	0.0004 ± 0.0003
April	0.0058 ± 0.0330	0.0002 ± 0.0001	0.0462 ± 0.0367	0.0003 ± 0.0003
May	0.0023 ± 0.0349	0.0002 ± 0.0002	0.0135 ± 0.0370	0.0002 ± 0.0002
June	0.1079 ± 0.0445	0.0005 ± 0.0002	0.1041 ± 0.0448	0.0005 ± 0.0002
July	0.0884 ± 0.0468	0.0005 ± 0.0003	0.0755 ± 0.0459	0.0003 ± 0.0003
August	0.0669 ± 0.0396	0.0002 ± 0.0002	0.0476 ± 0.0383	0.0001 ± 0.0002
September	-0.1216 ± 0.0681	0.0003 ± 0.0001	-0.1248 ± 0.0730	0.0003 ± 0.0001
October	0.0107 ± 0.0342	0.0001 ± 0.0002	-0.0105 ± 0.0333	0.0000 ± 0.0000
November	-0.0420 ± 0.0324	0.0001 ± 0.0001	-0.0245 ± 0.0340	0.0002 ± 0.0001
December	-0.0118 ± 0.0100	0.0001 ± 0.0001	0.0021 ± 0.0128	0.0001 ± 0.0001
Year to Date	-0.1525 ± 0.1361	0.0007 ± 0.0004	-0.1376 ± 0.1406	0.0005 ± 0.0002
<b>CY 1998</b>				
January	a	a	a	a
February	a	a	a	a
March	a	a	a	a
Year to Date	a	a	a	a

a Data is unavailable because of incomplete laboratory analysis. Results will be reported when available.

**Table 1-3 Uranium-235 and Tritium Airborne Effluent Data**

Month	Uranium-235		Tritium	
	Release ( $\mu\text{Ci}$ )	C Maximum ( $\text{pCi}/\text{m}^3$ )	Release ( $\mu\text{Ci}$ )	C Maximum ( $\text{pCi}/\text{m}^3$ )
<b>CY 1996</b>				
Jan – Dec	a	a	5.973	$0.218 \pm 0.02\text{b}$
<b>CY 1997</b>				
January	-0.0036 ± 0.0071	0.0000 ± 0.0001	0.683	0.06 ± 0.02b
February	0.0012 ± 0.0101	0.0000 ± 0.0001	0.312	0.03 ± 0.02b
March	-0.0105 ± 0.0072	0.0000 ± 0.0000	1.277	0.14 ± 0.02b
April	0.0045 ± 0.0102	0.0000 ± 0.0000	0.628	0.05 ± 0.02b
May	-0.0025 ± 0.0072	0.0001 ± 0.0001	0.318	0.05 ± 0.02b
June	0.0021 ± 0.0086	0.0000 ± 0.0000	0.458	0.05 ± 0.03b
July	-0.0019 ± 0.0091	0.0001 ± 0.0001	7.471	0.42 ± 0.10
August	0.0117 ± 0.0122	0.0000 ± 0.0001	9.555	0.30 ± 0.11
September	-0.0019 ± 0.0134	0.0000 ± 0.0000	7.032	0.31 ± 0.07
October	-0.0049 ± 0.0063	0.0000 ± 0.0000	10.059	12.59 ± 0.37
November	0.0091 ± 0.0128	0.0001 ± 0.0001	6.150	2.77 ± 0.16
December	-0.0010 ± 0.0018	0.0001 ± 0.0002	9.188	0.41 ± 0.11
Year to Date	<b>0.0022 ± 0.0324</b>	<b>0.0001 ± 0.0002</b>	<b>53.132</b>	<b>12.59 ± 0.37</b>
<b>CY 1998</b>				
January	c	c	c	c
February	c	c	c	c
March	c	c	c	c
Year to Date	c	c	c	c

a No effluent data was reported for Uranium-235 before 1997.

b Currently investigating a discrepancy in previously reported maximum concentration values.

c Data is unavailable because of incomplete laboratory analysis. Results will be reported when available.

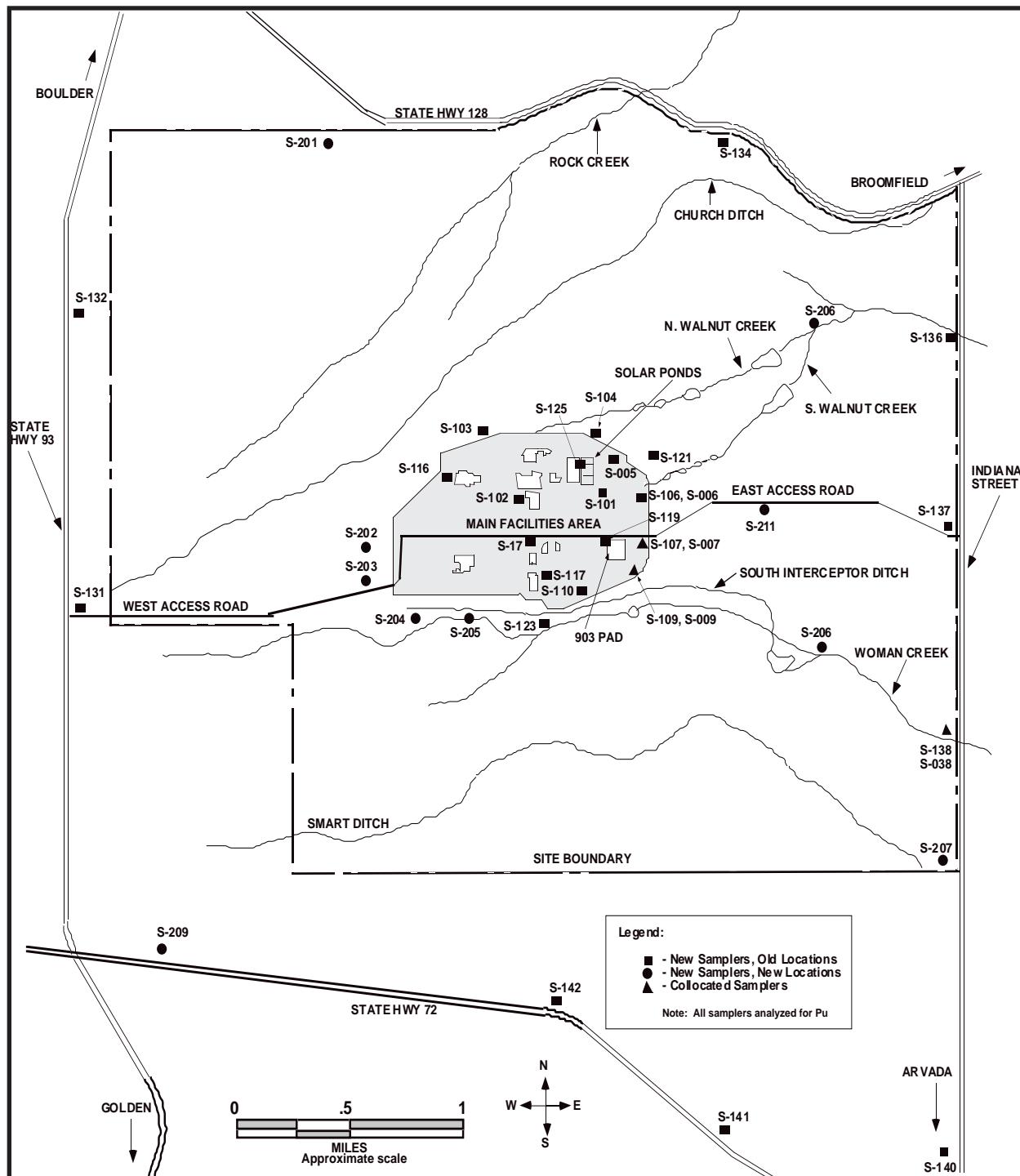


Figure 1-1 Location of Onsite and Perimeter Air Samplers

**Table 1-4 Plutonium-239 Concentrations in Ambient Air for Onsite Samplers<sup>a</sup>**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-107	01/06/97	02/04/97	46975	0.0004048	0.0000574	0.0000167	0.0000043	0.0004215	0.0000576
S-107	02/04/97	03/03/97	44419	0.0000039	0.0000015	0.0000122	0.0000043	0.0000161	0.0000045
S-107	03/03/97	04/08/97	58283	0.0000201	0.0000015	0.0000310	0.0000070	0.0000511	0.0000071
S-107	04/08/97	05/05/97	44460	0.0000197	0.0000057	0.0000239	0.0000075	0.0000436	0.0000094
S-107b	05/05/97	06/03/97	47212	0.0000051	0.0000022	0.0000165	0.0000054	0.0000216	0.0000059
S-107	06/03/97	07/07/97	55497	0.0000122	0.0000032	0.0000158	0.0000049	0.0000281	0.0000058
S-107	07/07/97	08/07/97	50074	0.0000164	0.0000040	0.0000174	0.0000059	0.0000339	0.0000071
S-107	08/07/97	09/09/97	53315	0.0000048	0.0000019	0.0000086	0.0000035	0.0000134	0.0000040
S-107	09/09/97	10/09/97	48524	0.0000277	0.0000055	0.0000223	0.0000070	0.0000501	0.0000089
S-107	10/09/97	11/05/97	44542	0.0000154	0.0000039	0.0000590	0.0000221	0.0000744	0.0000225
S-107	11/05/97	12/04/97	46954	0.0000069	0.0000027	0.0000070	0.0000042	0.0000139	0.0000050
S-107	12/04/97	01/20/98	76918	0.0000046	0.0000017	0.0000070	0.0000028	0.0000115	0.0000033
S-007	01/06/97	02/05/97	36477	N/A	N/A	N/A	N/A	0.0000375	0.0000064
S-007	02/05/97	03/03/97	33883	N/A	N/A	N/A	N/A	0.0000257	0.0000046
S-007c	03/17/97	04/08/97	28636	N/A	N/A	N/A	N/A	0.0000869	0.0000108
S-007	04/08/97	05/05/97	39772	N/A	N/A	N/A	N/A	0.0000349	0.0000067
S-007	05/05/97	06/03/97	35716	N/A	N/A	N/A	N/A	0.0000287	0.0000063
S-007	06/03/97	07/07/97	40887	N/A	N/A	N/A	N/A	0.0000330	0.0000064
S-007	07/07/97	08/07/97	37886	N/A	N/A	N/A	N/A	d	d
S-007	08/07/97	09/09/97	40682	N/A	N/A	N/A	N/A	0.0000124	0.0000037
S-007	09/09/97	10/09/97	37842	N/A	N/A	N/A	N/A	0.0000661	0.0000106
S-007	10/09/97	11/05/97	27928	N/A	N/A	N/A	N/A	0.0000552	0.0000104
S-007	11/05/97	12/04/97	28968	N/A	N/A	N/A	N/A	0.0000162	0.0000048
S-007	12/04/97	01/20/98	60376	N/A	N/A	N/A	N/A	0.0000147	0.0000038

- a These data have not been corrected for temperature.  
 b Fine and Coarse samples were cross-contaminated. Total values only are valid.  
 c Sample for half of the month was lost; results reflect half month only.  
 d Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

**Table 1-5 Plutonium-239 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-131	01/07/97	02/05/97	47124	-0.0000001	0.0000004	-0.0000002	0.0000005	-0.0000004	0.0000006
S-131	02/05/97	03/04/97	43964	0.0000000	0.0000007	0.0000008	0.0000011	0.0000008	0.0000013
S-131	03/04/97	04/09/97	58922	0.0000001	0.0000002	0.0000000	0.0000010	0.0000002	0.0000010
S-131	04/09/97	05/08/97	46927	0.0000000	0.0000006	-0.0000001	0.0000008	-0.0000001	0.0000010
S-131	05/08/97	06/09/97	52493	-0.0000006	0.0000006	0.0000005	0.0000008	0.0000000	0.0000009
S-131	06/09/97	07/09/97	48531	-0.0000002	0.0000005	-0.0000001	0.0000006	-0.0000003	0.0000008
S-131	07/09/97	08/12/97	55415	0.0000014	0.0000013	0.0000006	0.0000009	0.0000021	0.0000015
S-131	08/12/97	09/11/97	49210	0.0000001	0.0000007	0.0000005	0.0000008	0.0000007	0.0000010
S-131	09/11/97	10/09/97	45575	0.0000018	0.0000019	0.0000002	0.0000007	0.0000020	0.0000020
S-131	10/09/97	11/07/97	47110	0.0000010	0.0000015	0.0000016	0.0000016	0.0000025	0.0000022
S-131	11/07/97	12/05/97	45908	-0.0000005	0.0000011	0.0000005	0.0000011	0.0000000	0.0000016
S-131	12/05/97	01/21/98	76605	0.0000003	0.0000006	0.0000010	0.0000011	0.0000012	0.0000013
S-132	01/07/97	02/05/97	47117	0.0000002	0.0000003	0.0000003	0.0000006	0.0000005	0.0000007
S-132	02/05/97	03/04/97	43971	0.0000000	0.0000003	0.0000000	0.0000005	0.0000000	0.0000006
S-132	03/04/97	04/09/97	55415	0.0000005	0.0000002	0.0000004	0.0000007	0.0000008	0.0000007
S-132	04/09/97	05/08/97	42951	0.0000004	0.0000005	-0.0000005	0.0000012	-0.0000001	0.0000013
S-132	05/08/97	06/09/97	49632	0.0000002	0.0000005	0.0000012	0.0000014	0.0000014	0.0000015
S-132	06/09/97	07/09/97	47729	-0.0000013	0.0000009	0.0000010	0.0000011	-0.0000002	0.0000014
S-132	07/09/97	08/12/97	55422	0.0000012	0.0000009	0.0000003	0.0000006	0.0000015	0.0000011
S-132	08/12/97	09/11/97	47763	0.0000001	0.0000012	0.0000011	0.0000013	0.0000012	0.0000017
S-132	09/11/97	10/09/97	45568	0.0000006	0.0000011	0.0000000	0.0000001	0.0000006	0.0000011
S-132	10/09/97	11/07/97	47097	0.0000017	0.0000014	-0.0000002	0.0000005	0.0000015	0.0000015
S-132	11/07/97	12/05/97	42047	-0.0000001	0.0000008	-0.0000002	0.0000004	-0.0000003	0.0000009
S-132	12/05/97	01/21/98	76599	0.0000003	0.0000009	0.0000006	0.0000007	0.0000009	0.0000012
S-134	01/07/97	02/05/97	47199	-0.0000001	0.0000002	0.0000003	0.0000007	0.0000002	0.0000007
S-134	02/05/97	03/04/97	43794	0.0000000	0.0000003	-0.0000009	0.0000010	-0.0000009	0.0000010
S-134	03/04/97	04/08/97	56999	0.0000000	0.0000001	0.0000012	0.0000016	0.0000011	0.0000016
S-134	04/08/97	05/08/97	48871	0.0000001	0.0000005	-0.0000001	0.0000001	0.0000000	0.0000005
S-134	05/08/97	06/10/97	52133	-0.0000006	0.0000005	-0.0000001	0.0000001	-0.0000007	0.0000006
S-134	06/10/97	07/09/97	47416	0.0000004	0.0000007	0.0000003	0.0000009	0.0000007	0.0000011
S-134	07/09/97	08/12/97	54437	0.0000020	0.0000008	0.0000002	0.0000006	0.0000022	0.0000011
S-134	08/12/97	09/11/97	49183	0.0000005	0.0000011	0.0000014	0.0000012	0.0000019	0.0000016
S-134	09/11/97	10/09/97	45629	0.0000012	0.0000016	0.0000006	0.0000009	0.0000018	0.0000018
S-134	10/09/97	11/07/97	47199	0.0000015	0.0000014	0.0000001	0.0000012	0.0000016	0.0000018
S-134	11/07/97	12/05/97	45867	0.0000011	0.0000012	0.0000010	0.0000017	0.0000021	0.0000021
S-134	12/05/97	01/21/98	76599	0.0000004	0.0000008	0.0000002	0.0000004	0.0000006	0.0000009
S-136	01/07/97	02/05/97	46927	0.0000000	0.0000004	0.0000003	0.0000007	0.0000003	0.0000008
S-136	02/05/97	03/04/97	43977	0.0000003	0.0000005	-0.0000006	0.0000009	-0.0000003	0.0000010
S-136	03/04/97	04/10/97	60186	-0.0000001	0.0000002	0.0000000	0.0000005	-0.0000001	0.0000005
S-136	04/10/97	05/08/97	45690	-0.0000009	0.0000006	0.0000002	0.0000010	-0.0000007	0.0000011
S-136	05/08/97	06/03/97	41259	-0.0000001	0.0000002	0.0000002	0.0000006	0.0000001	0.0000007
S-136	06/03/97	07/10/97	59758	0.0000001	0.0000002	0.0000001	0.0000004	0.0000002	0.0000004
S-136	07/10/97	08/12/97	53179	0.0000005	0.0000006	0.0000003	0.0000008	0.0000008	0.0000010
S-136	08/12/97	09/11/97	48973	0.0000002	0.0000016	0.0000005	0.0000008	0.0000007	0.0000018
S-136	09/11/97	10/10/97	47022	0.0000019	0.0000013	0.0000008	0.0000010	0.0000027	0.0000017
S-136	10/10/97	11/07/97	45785	0.0000003	0.0000010	0.0000005	0.0000010	0.0000008	0.0000014
S-136	11/07/97	12/05/97	45921	0.0000010	0.0000013	-0.0000004	0.0000005	0.0000006	0.0000014
S-136	12/05/97	01/21/98	76313	-0.0000004	0.0000005	0.0000004	0.0000006	0.0000000	0.0000007

**Table 1-5 Plutonium-239 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-137	01/08/97	02/05/97	45690	0.0000003	0.0000005	0.0000021	0.0000020	0.0000024	0.0000021
S-137	02/05/97	03/04/97	43977	-0.0000004	0.0000004	0.0000002	0.0000007	-0.0000001	0.0000008
S-137	03/04/97	04/10/97	60193	0.0000005	0.0000002	0.0000005	0.0000010	0.0000010	0.0000010
S-137	04/10/97	05/08/97	45683	-0.0000001	0.0000002	-0.0000001	0.0000011	-0.0000002	0.0000011
S-137	05/08/97	06/03/97	42829	0.0000004	0.0000006	0.0000002	0.0000014	0.0000006	0.0000015
S-137	06/03/97	07/10/97	59744	0.0000008	0.0000006	0.0000003	0.0000006	0.0000011	0.0000008
S-137	07/10/97	08/12/97	54172	0.0000007	0.0000010	-0.0000001	0.0000002	0.0000006	0.0000010
S-137	08/12/97	09/11/97	48959	0.0000017	0.0000015	0.0000006	0.0000010	0.0000023	0.0000018
S-137	09/11/97	10/09/97	45615	0.0000011	0.0000011	0.0000001	0.0000008	0.0000012	0.0000014
S-137	10/09/97	11/07/97	47206	0.0000010	0.0000011	-0.0000007	0.0000008	0.0000004	0.0000013
S-137	11/07/97	12/05/97	45928	-0.0000009	0.0000008	0.0000000	0.0000001	-0.0000009	0.0000008
S-137	12/05/97	01/21/98	76306	0.0000005	0.0000006	0.0000001	0.0000005	0.0000006	0.0000008
S-138	01/08/97	02/05/97	45690	0.0000002	0.0000005	-0.0000004	0.0000005	-0.0000002	0.0000007
S-138	02/05/97	03/04/97	44188	0.0000001	0.0000006	0.0000013	0.0000012	0.0000014	0.0000014
S-138	03/04/97	04/10/97	59969	0.0000000	0.0000002	0.0000001	0.0000009	0.0000001	0.0000009
S-138	04/10/97	05/06/97	42652	0.0000007	0.0000008	-0.0000010	0.0000014	-0.0000004	0.0000016
S-138	05/06/97	06/04/97	47287	0.0000004	0.0000007	0.0000005	0.0000012	0.0000010	0.0000014
S-138	06/04/97	07/08/97	55252	0.0000008	0.0000007	-0.0000001	0.0000001	0.0000007	0.0000007
S-138	07/08/97	08/12/97	56625	0.0000011	0.0000010	0.0000005	0.0000008	0.0000016	0.0000013
S-138	08/12/97	09/10/97	47681	0.0000002	0.0000007	0.0000031	0.0000020	0.0000032	0.0000022
S-138	09/10/97	10/09/97	46954	0.0000021	0.0000014	0.0000150	0.0000053	0.0000171	0.0000055
S-138	10/09/97	11/06/97	46030	0.0000009	0.0000013	0.0000000	0.0000001	0.0000009	0.0000013
S-138	11/06/97	12/05/97	45289	0.0000008	0.0000010	0.0000000	0.0000001	0.0000008	0.0000010
S-138	12/05/97	01/21/98	76368	-0.0000001	0.0000004	-0.0000002	0.0000003	-0.0000003	0.0000005
S-140	01/08/97	02/05/97	45690	0.0000005	0.0000006	0.0000000	0.0000005	0.0000005	0.0000008
S-140	02/05/97	03/05/97	45880	-0.0000001	0.0000005	-0.0000004	0.0000006	-0.0000005	0.0000008
S-140	03/05/97	04/10/97	58385	0.0000005	0.0000006	0.0000004	0.0000009	0.0000009	0.0000011
S-140	04/10/97	05/06/97	42734	-0.0000001	0.0000007	0.0000002	0.0000007	0.0000002	0.0000010
S-140	05/06/97	06/04/97	47240	0.0000000	0.0000005	0.0000004	0.0000017	0.0000005	0.0000018
S-140	06/04/97	07/08/97	55544	0.0000009	0.0000007	0.0000003	0.0000006	0.0000012	0.0000009
S-140	07/08/97	08/12/97	56659	0.0000007	0.0000016	0.0000017	0.0000016	0.0000024	0.0000023
S-140	08/12/97	09/10/97	47681	0.0000013	0.0000013	0.0000010	0.0000011	0.0000024	0.0000017
S-140	09/10/97	10/09/97	46961	0.0000006	0.0000011	0.0000000	0.0000001	0.0000006	0.0000011
S-140	10/09/97	11/06/97	46037	0.0000005	0.0000011	0.0000008	0.0000011	0.0000012	0.0000016
S-140	11/06/97	12/05/97	47246	0.0000000	0.0000007	0.0000002	0.0000009	0.0000003	0.0000011
S-140	12/05/97	01/21/98	76605	0.0000000	0.0000005	0.0000004	0.0000006	0.0000004	0.0000008
S-141	01/08/97	02/05/97	45690	b	b	-0.0000003	0.0000011	b	b
S-141	02/05/97	03/05/97	45887	0.0000007	0.0000011	0.0000001	0.0000009	0.0000008	0.0000014
S-141	03/05/97	04/10/97	58385	0.0000000	0.0000004	-0.0000007	0.0000007	-0.0000006	0.0000008
S-141	04/10/97	05/06/97	42734	-0.0000003	0.0000004	0.0000003	0.0000018	0.0000000	0.0000019
S-141	05/06/97	06/04/97	47233	0.0000011	0.0000010	0.0000001	0.0000005	0.0000012	0.0000011
S-141	06/04/97	07/08/97	55538	0.0000003	0.0000005	0.0000008	0.0000008	0.0000012	0.0000010
S-141	07/08/97	08/12/97	56632	0.0000010	0.0000008	0.0000002	0.0000004	0.0000012	0.0000009
S-141	08/12/97	09/10/97	47681	0.0000001	0.0000011	0.0000000	0.0000001	0.0000001	0.0000011
S-141	09/10/97	10/09/97	46961	0.0000023	0.0000016	0.0000004	0.0000006	0.0000028	0.0000017
S-141	10/09/97	11/06/97	46037	-0.0000007	0.0000008	0.0000003	0.0000011	-0.0000005	0.0000014
S-141	11/06/97	12/05/97	47246	0.0000001	0.0000012	0.0000000	0.0000010	0.0000001	0.0000015
S-141	12/05/97	01/21/98	76605	0.0000002	0.0000007	0.0000007	0.0000008	0.0000010	0.0000011

**Table 1-5 Plutonium-239 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-142	01/08/97	02/05/97	45697	0.0000002	0.0000003	b	b	b	b
S-142	02/05/97	03/05/97	45880	-0.0000003	0.0000005	-0.0000002	0.0000004	-0.0000005	0.0000007
S-142	03/05/97	04/10/97	58392	-0.0000001	0.0000003	-0.0000002	0.0000002	-0.0000002	0.0000004
S-142	04/10/97	05/06/97	42734	0.0000007	0.0000009	-0.0000001	0.0000001	0.0000006	0.0000009
S-142	05/06/97	06/04/97	47233	0.0000003	0.0000005	-0.0000001	0.0000014	0.0000002	0.0000015
S-142	06/04/97	07/08/97	55538	0.0000009	0.0000007	0.0000003	0.0000006	0.0000012	0.0000009
S-142	07/08/97	08/12/97	56666	0.0000007	0.0000007	0.0000000	0.0000001	0.0000007	0.0000007
S-142	08/12/97	09/10/97	47681	0.0000018	0.0000013	0.0000005	0.0000008	0.0000023	0.0000015
S-142	09/10/97	10/09/97	46968	0.0000002	0.0000015	0.0000003	0.0000007	0.0000006	0.0000016
S-142	10/09/97	11/06/97	46030	0.0000006	0.0000010	-0.0000002	0.0000003	0.0000005	0.0000010
S-142	11/06/97	12/05/97	47253	-0.0000001	0.0000006	0.0000000	0.0000001	-0.0000001	0.0000006
S-142	12/05/97	01/21/98	76592	-0.0000006	0.0000004	0.0000002	0.0000004	-0.0000004	0.0000006
S-201	01/07/97	02/05/97	46907	0.0000004	0.0000005	0.0000006	0.0000009	0.0000010	0.0000010
S-201	02/05/97	03/04/97	43345	0.0000002	0.0000006	-0.0000010	0.0000013	-0.0000008	0.0000014
S-201	03/04/97	04/08/97	57019	0.0000005	0.0000005	-0.0000001	0.0000012	0.0000004	0.0000013
S-201	04/08/97	05/08/97	48857	0.0000007	0.0000007	0.0000001	0.0000009	0.0000009	0.0000012
S-201	05/08/97	06/10/97	51650	0.0000000	0.0000005	0.0000001	0.0000004	0.0000001	0.0000006
S-201	06/10/97	07/09/97	45636	c	c	c	c	c	c
S-201	07/09/97	08/12/97	54810	0.0000018	0.0000009	0.0000004	0.0000007	0.0000021	0.0000011
S-201	08/12/97	09/11/97	48572	0.0000000	0.0000009	-0.0000001	0.0000002	-0.0000001	0.0000009
S-201	09/11/97	10/09/97	44562	0.0000010	0.0000011	0.0000006	0.0000009	0.0000016	0.0000014
S-201	10/09/97	11/07/97	47036	0.0000016	0.0000012	0.0000005	0.0000011	0.0000021	0.0000016
S-201	11/07/97	12/05/97	45908	0.0000008	0.0000010	0.0000000	0.0000001	0.0000008	0.0000010
S-201	12/05/97	01/21/98	76449	0.0000007	0.0000007	0.0000004	0.0000005	0.0000011	0.0000009
S-207	01/08/97	02/05/97	45697	0.0000005	0.0000009	0.0000007	0.0000015	0.0000012	0.0000017
S-207	02/05/97	03/04/97	43916	0.0000001	0.0000004	-0.0000004	0.0000006	-0.0000004	0.0000008
S-207	03/04/97	04/10/97	59975	b	b	-0.0000004	0.0000007	b	b
S-207	04/10/97	05/06/97	42679	0.0000007	0.0000009	c	c	c	c
S-207	05/06/97	06/04/97	47287	0.0000004	0.0000005	0.0000014	0.0000013	0.0000018	0.0000014
S-207	06/04/97	07/08/97	55538	0.0000010	0.0000008	0.0000003	0.0000006	0.0000013	0.0000010
S-207	07/08/97	08/12/97	56666	0.0000014	0.0000009	0.0000002	0.0000007	0.0000015	0.0000011
S-207	08/12/97	09/10/97	47654	0.0000020	0.0000016	-0.0000002	0.0000003	0.0000018	0.0000017
S-207	09/10/97	10/09/97	46961	0.0000005	0.0000012	0.0000009	0.0000013	0.0000015	0.0000018
S-207	10/09/97	11/06/97	46037	0.0000008	0.0000010	0.0000004	0.0000008	0.0000012	0.0000013
S-207	11/06/97	12/05/97	47036	-0.0000002	0.0000008	0.0000013	0.0000015	0.0000011	0.0000017
S-207	12/05/97	01/21/98	76585	0.0000003	0.0000006	-0.0000002	0.0000004	0.0000001	0.0000007
S-209	01/08/97	02/05/97	45690	0.0000001	0.0000004	b	b	b	b
S-209	02/05/97	03/05/97	45887	0.0000000	0.0000005	0.0000002	0.0000006	0.0000002	0.0000008
S-209	03/05/97	04/10/97	58392	-0.0000002	0.0000004	-0.0000001	0.0000006	-0.0000003	0.0000007
S-209	04/10/97	05/06/97	42734	0.0000006	0.0000006	-0.0000004	0.0000009	0.0000002	0.0000011
S-209	05/06/97	06/04/97	47233	-0.0000001	0.0000005	-0.0000001	0.0000012	-0.0000002	0.0000013
S-209	06/04/97	07/08/97	55538	0.0000002	0.0000006	-0.0000003	0.0000008	-0.0000001	0.0000010
S-209	07/08/97	08/12/97	56618	0.0000005	0.0000009	0.0000003	0.0000005	0.0000007	0.0000010
S-209	08/12/97	09/10/97	47681	0.0000006	0.0000013	0.0000003	0.0000008	0.0000009	0.0000016
S-209	09/10/97	10/09/97	46968	0.0000018	0.0000015	0.0000003	0.0000006	0.0000021	0.0000016
S-209	10/09/97	11/06/97	46030	0.0000004	0.0000011	0.0000000	0.0000001	0.0000004	0.0000011
S-209	11/06/97	12/05/97	47253	0.0000002	0.0000011	0.0000003	0.0000010	0.0000005	0.0000015
S-209	12/05/97	01/21/98	76599	0.0000001	0.0000005	0.0000002	0.0000004	0.0000003	0.0000006

**Table 1-5 Plutonium-239 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-038	01/08/97	02/05/97	32574	N/A	N/A	N/A	N/A	0.0000004	0.0000005
S-038	02/05/97	03/04/97	33640	N/A	N/A	N/A	N/A	0.0000004	0.0000006
S-038	03/04/97	04/10/97	45863	N/A	N/A	N/A	N/A	0.0000003	0.0000004
S-038	04/10/97	05/06/97	31315	N/A	N/A	N/A	N/A	0.0000010	0.0000012
S-038	05/06/97	06/04/97	35116	N/A	N/A	N/A	N/A	0.0000018	0.0000017
S-038	06/04/97	07/08/97	39910	N/A	N/A	N/A	N/A	0.0000009	0.0000010
S-038	07/08/97	08/12/97	40958	N/A	N/A	N/A	N/A	d	d
S-038	08/12/97	09/10/97	35560	N/A	N/A	N/A	N/A	-0.0000006	0.0000019
S-038	09/10/97	10/09/97	34515	N/A	N/A	N/A	N/A	0.0000027	0.0000021
S-038	10/09/97	11/06/97	34533	N/A	N/A	N/A	N/A	-0.0000003	0.0000011
S-038	11/06/97	12/05/97	36765	N/A	N/A	N/A	N/A	0.0000004	0.0000011
S-038	12/05/97	01/21/98	58883	N/A	N/A	N/A	N/A	0.0000002	0.0000007

a These data have not been corrected for temperature.

b Laboratory analysis failed; there is no data available.

c Sample was lost; no results are available.

d Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

**Table 1-6 Uranium-233, -234 Concentrations in Ambient Air for Onsite Samplers<sup>a</sup>**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-107	01/06/97	02/04/97	46975	-0.0000021	0.0000055	0.0000146	0.0000035	0.0000125	0.0000066
S-107	02/04/97	03/03/97	44419	-0.0000015	0.0000061	0.0000123	0.0000032	0.0000108	0.0000069
S-107	03/03/97	04/08/97	58283	0.0000030	0.0000022	0.0000180	0.0000039	0.0000211	0.0000045
S-107	04/08/97	05/05/97	44460	0.0000152	0.0000054	0.0000136	0.0000051	0.0000287	0.0000074
S-107b	05/05/97	06/03/97	47212	0.0000114	0.0000041	0.0000092	0.0000038	0.0000206	0.0000056
S-107	06/03/97	07/07/97	55497	0.0000098	0.0000033	0.0000123	0.0000044	0.0000221	0.0000055
S-107	07/07/97	08/07/97	50074	0.0000075	0.0000033	0.0000102	0.0000042	0.0000177	0.0000054
S-107	08/07/97	09/09/97	53315	0.0000086	0.0000034	0.0000081	0.0000035	0.0000168	0.0000049
S-107	09/09/97	10/09/97	48524	0.0000124	0.0000039	0.0000133	0.0000048	0.0000257	0.0000062
S-107	10/09/97	11/05/97	44542	0.0000090	0.0000036	0.0000188	0.0000081	0.0000278	0.0000088
S-107	11/05/97	12/04/97	46954	0.0000069	0.0000032	0.0000098	0.0000049	0.0000166	0.0000058
S-107	12/04/97	01/20/98	76918	0.0000088	0.0000025	0.0000106	0.0000040	0.0000194	0.0000047
S-007	01/06/97	02/05/97	36477	N/A	N/A	N/A	N/A	0.0000303	0.0000096
S-007	02/05/97	03/03/97	33883	N/A	N/A	N/A	N/A	0.0000179	0.0000103
S-007c	03/17/97	04/08/97	28636	N/A	N/A	N/A	N/A	0.0000431	0.0000212
S-007	04/08/97	05/05/97	39772	N/A	N/A	N/A	N/A	0.0000199	0.0000065
S-007	05/05/97	06/03/97	35716	N/A	N/A	N/A	N/A	0.0000193	0.0000070
S-007	06/03/97	07/07/97	40887	N/A	N/A	N/A	N/A	0.0000187	0.0000062
S-007	07/07/97	08/07/97	37886	N/A	N/A	N/A	N/A	d	d
S-007	08/07/97	09/09/97	40682	N/A	N/A	N/A	N/A	0.0000043	0.0000046
S-007	09/09/97	10/09/97	37842	N/A	N/A	N/A	N/A	0.0000237	0.0000070
S-007	10/09/97	11/05/97	27928	N/A	N/A	N/A	N/A	0.0000221	0.0000081
S-007	11/05/97	12/04/97	28968	N/A	N/A	N/A	N/A	0.0000163	0.0000071
S-007	12/04/97	01/20/98	60376	N/A	N/A	N/A	N/A	0.0000127	0.0000040

a These data have not been corrected for temperature.

b Fine and Coarse samples were cross-contaminated. Total values only are valid.

c Sample for half of the month was lost; results reflect half month only.

d Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

**Table 1-7 Uranium-233, -234 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**

<b>Location</b>	<b>On Date</b>	<b>Off Date</b>	<b>Flow (m<sup>3</sup>)</b>	<b>Fine Conc (pCi/m<sup>3</sup>)</b>	<b>Fine Error (pCi/m<sup>3</sup>)</b>	<b>Coarse Conc (pCi/m<sup>3</sup>)</b>	<b>Coarse Error (pCi/m<sup>3</sup>)</b>	<b>Total Conc (pCi/m<sup>3</sup>)</b>	<b>Total Error (pCi/m<sup>3</sup>)</b>
S-131	01/07/97	02/05/97	47124	-0.0000041	0.0000053	0.0000158	0.0000033	0.0000117	0.0000062
S-131	02/05/97	03/04/97	43964	0.0000021	0.0000064	0.0000269	0.0000049	0.0000290	0.0000080
S-131	03/04/97	04/09/97	58922	0.0000057	0.0000028	0.0000240	0.0000042	0.0000297	0.0000051
S-131	04/09/97	05/08/97	46927	0.0000067	0.0000035	0.0000178	0.0000075	0.0000245	0.0000083
S-131	05/08/97	06/09/97	52493	0.0000098	0.0000035	0.0000147	0.0000063	0.0000244	0.0000072
S-131	06/09/97	07/09/97	48531	0.0000146	0.0000041	0.0000249	0.0000096	0.0000394	0.0000104
S-131	07/09/97	08/12/97	55415	0.0000148	0.0000041	0.0000169	0.0000060	0.0000317	0.0000073
S-131	08/12/97	09/11/97	49210	0.0000084	0.0000036	0.0000155	0.0000059	0.0000238	0.0000069
S-131	09/11/97	10/09/97	45575	0.0000076	0.0000038	0.0000139	0.0000056	0.0000215	0.0000068
S-131	10/09/97	11/07/97	47110	0.0000105	0.0000036	0.0000187	0.0000070	0.0000292	0.0000079
S-131	11/07/97	12/05/97	45908	0.0000105	0.0000036	0.0000291	0.0000109	0.0000396	0.0000115
S-131	12/05/97	01/21/98	76605	0.0000077	0.0000023	0.0000129	0.0000045	0.0000206	0.0000051
S-132	01/07/97	02/05/97	47117	0.0000015	0.0000057	0.0000221	0.0000043	0.0000236	0.0000071
S-132	02/05/97	03/04/97	43971	-0.0000008	0.0000079	0.0000228	0.0000047	0.0000220	0.0000092
S-132	03/04/97	04/09/97	55415	0.0000059	0.0000024	0.0000359	0.0000068	0.0000418	0.0000072
S-132	04/09/97	05/08/97	42951	0.0000148	0.0000047	0.0000336	0.0000124	0.0000484	0.0000132
S-132	05/08/97	06/09/97	49632	0.0000134	0.0000040	0.0000190	0.0000076	0.0000325	0.0000086
S-132	06/09/97	07/09/97	47729	0.0000220	0.0000050	0.0000323	0.0000108	0.0000543	0.0000119
S-132	07/09/97	08/12/97	55422	0.0000168	0.0000041	0.0000267	0.0000088	0.0000435	0.0000097
S-132	08/12/97	09/11/97	47763	0.0000160	0.0000044	0.0000314	0.0000100	0.0000474	0.0000109
S-132	09/11/97	10/09/97	45568	0.0000157	0.0000047	0.0000250	0.0000083	0.0000407	0.0000096
S-132	10/09/97	11/07/97	47097	0.0000116	0.0000037	0.0000260	0.0000090	0.0000376	0.0000097
S-132	11/07/97	12/05/97	42047	0.0000159	0.0000044	0.0000376	0.0000140	0.0000535	0.0000147
S-132	12/05/97	01/21/98	76599	0.0000100	0.0000026	0.0000167	0.0000056	0.0000268	0.0000062
S-134	01/07/97	02/05/97	47199	-0.0000053	0.0000055	0.0000059	0.0000023	0.0000005	0.0000060
S-134	02/05/97	03/04/97	43794	-0.0000037	0.0000058	0.0000065	0.0000021	0.0000028	0.0000061
S-134	03/04/97	04/08/97	56999	-0.0000003	0.0000022	0.0000084	0.0000023	0.0000081	0.0000032
S-134	04/08/97	05/08/97	48871	0.0000055	0.0000034	0.0000086	0.0000049	0.0000141	0.0000059
S-134	05/08/97	06/10/97	52133	0.0000043	0.0000029	0.0000105	0.0000050	0.0000149	0.0000058
S-134	06/10/97	07/09/97	47416	0.0000113	0.0000037	0.0000114	0.0000058	0.0000227	0.0000069
S-134	07/09/97	08/12/97	54437	0.0000082	0.0000034	0.0000107	0.0000048	0.0000189	0.0000058
S-134	08/12/97	09/11/97	49183	0.0000111	0.0000037	0.0000102	0.0000047	0.0000212	0.0000060
S-134	09/11/97	10/09/97	45629	0.0000060	0.0000035	0.0000055	0.0000035	0.0000115	0.0000049
S-134	10/09/97	11/07/97	47199	0.0000051	0.0000030	0.0000089	0.0000045	0.0000140	0.0000053
S-134	11/07/97	12/05/97	45867	0.0000029	0.0000027	0.0000082	0.0000050	0.0000111	0.0000057
S-134	12/05/97	01/21/98	76599	0.0000042	0.0000019	0.0000051	0.0000027	0.0000093	0.0000033
S-136	01/07/97	02/05/97	46927	-0.0000050	0.0000056	0.0000059	0.0000020	0.0000010	0.0000059
S-136	02/05/97	03/04/97	43977	-0.0000041	0.0000060	0.0000064	0.0000022	0.0000023	0.0000064
S-136	03/04/97	04/10/97	60186	-0.0000013	0.0000022	0.0000065	0.0000019	0.0000053	0.0000029
S-136	04/10/97	05/08/97	45690	0.0000011	0.0000032	0.0000079	0.0000048	0.0000090	0.0000058
S-136	05/08/97	06/03/97	41259	0.0000054	0.0000037	0.0000147	0.0000070	0.0000201	0.0000079
S-136	06/03/97	07/10/97	59758	0.0000117	0.0000033	0.0000107	0.0000052	0.0000224	0.0000061
S-136	07/10/97	08/12/97	53179	0.0000104	0.0000035	0.0000102	0.0000047	0.0000206	0.0000058
S-136	08/12/97	09/11/97	48973	0.0000058	0.0000033	0.0000140	0.0000059	0.0000198	0.0000068
S-136	09/11/97	10/10/97	47022	0.0000093	0.0000038	0.0000076	0.0000038	0.0000170	0.0000054
S-136	10/10/97	11/07/97	45785	0.0000093	0.0000035	0.0000146	0.0000064	0.0000239	0.0000073
S-136	11/07/97	12/05/97	45921	0.0000057	0.0000030	0.0000079	0.0000049	0.0000136	0.0000057
S-136	12/05/97	01/21/98	76313	0.0000052	0.0000021	0.0000071	0.0000032	0.0000124	0.0000038

**Table 1-7 Uranium-233, -234 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-137	01/08/97	02/05/97	45690	-0.0000021	0.0000056	0.0000138	0.0000034	0.0000117	0.0000066
S-137	02/05/97	03/04/97	43977	-0.0000033	0.0000061	0.0000141	0.0000033	0.0000108	0.0000069
S-137	03/04/97	04/10/97	60193	-0.0000007	0.0000022	0.0000129	0.0000027	0.0000122	0.0000035
S-137	04/10/97	05/08/97	45683	0.0000085	0.0000039	0.0000283	0.0000125	0.0000368	0.0000131
S-137	05/08/97	06/03/97	42829	0.0000067	0.0000036	0.0000193	0.0000080	0.0000260	0.0000088
S-137	06/03/97	07/10/97	59744	0.0000108	0.0000030	0.0000092	0.0000045	0.0000200	0.0000054
S-137	07/10/97	08/12/97	54172	0.0000081	0.0000032	0.0000073	0.0000037	0.0000154	0.0000048
S-137	08/12/97	09/11/97	48959	0.0000116	0.0000041	0.0000103	0.0000047	0.0000219	0.0000062
S-137	09/11/97	10/09/97	45615	0.0000070	0.0000036	0.0000109	0.0000051	0.0000179	0.0000063
S-137	10/09/97	11/07/97	47206	0.0000121	0.0000038	0.0000125	0.0000052	0.0000246	0.0000064
S-137	11/07/97	12/05/97	45928	0.0000067	0.0000031	0.0000130	0.0000063	0.0000197	0.0000071
S-137	12/05/97	01/21/98	76306	0.0000084	0.0000024	0.0000103	0.0000039	0.0000187	0.0000046
S-138	01/08/97	02/05/97	45690	-0.0000008	0.0000062	0.0000070	0.0000022	0.0000062	0.0000066
S-138	02/05/97	03/04/97	44188	-0.0000055	0.0000054	0.0000088	0.0000027	0.0000034	0.0000061
S-138	03/04/97	04/10/97	59969	-0.0000007	0.0000020	0.0000103	0.0000024	0.0000096	0.0000031
S-138	04/10/97	05/06/97	42652	0.0000060	0.0000038	0.0000152	0.0000073	0.0000212	0.0000082
S-138	05/06/97	06/04/97	47287	0.0000108	0.0000037	0.0000065	0.0000045	0.0000173	0.0000059
S-138	06/04/97	07/08/97	55252	0.0000094	0.0000032	0.0000137	0.0000060	0.0000231	0.0000068
S-138	07/08/97	08/12/97	56625	0.0000118	0.0000037	0.0000106	0.0000045	0.0000224	0.0000058
S-138	08/12/97	09/10/97	47681	0.0000081	0.0000036	0.0000130	0.0000056	0.0000212	0.0000067
S-138	09/10/97	10/09/97	46954	0.0000085	0.0000037	0.0000108	0.0000050	0.0000193	0.0000062
S-138	10/09/97	11/06/97	46030	0.0000102	0.0000036	0.0000089	0.0000047	0.0000190	0.0000059
S-138	11/06/97	12/05/97	45289	0.0000060	0.0000032	0.0000069	0.0000046	0.0000128	0.0000056
S-138	12/05/97	01/21/98	76368	0.0000065	0.0000023	0.0000056	0.0000027	0.0000122	0.0000035
S-140	01/08/97	02/05/97	45690	0.0000021	0.0000071	0.0000303	0.0000050	0.0000323	0.0000087
S-140	02/05/97	03/05/97	45880	0.0000109	0.0000067	0.0000370	0.0000067	0.0000479	0.0000095
S-140	03/05/97	04/10/97	58385	0.0000080	0.0000047	0.0000369	0.0000064	0.0000450	0.0000080
S-140	04/10/97	05/06/97	42734	0.0000142	0.0000045	0.0000488	0.0000185	0.0000630	0.0000191
S-140	05/06/97	06/04/97	47240	0.0000062	0.0000037	0.0000266	0.0000104	0.0000328	0.0000110
S-140	06/04/97	07/08/97	55544	0.0000194	0.0000044	0.0000271	0.0000095	0.0000465	0.0000104
S-140	07/08/97	08/12/97	56659	0.0000199	0.0000044	0.0000239	0.0000080	0.0000438	0.0000092
S-140	08/12/97	09/10/97	47681	0.0000112	0.0000040	0.0000242	0.0000081	0.0000354	0.0000090
S-140	09/10/97	10/09/97	46961	0.0000174	0.0000047	0.0000201	0.0000072	0.0000376	0.0000086
S-140	10/09/97	11/06/97	46037	0.0000177	0.0000043	0.0000284	0.0000100	0.0000461	0.0000109
S-140	11/06/97	12/05/97	47246	0.0000239	0.0000051	0.0000461	0.0000177	0.0000700	0.0000184
S-140	12/05/97	01/21/98	76605	0.0000166	0.0000034	0.0000238	0.0000086	0.0000404	0.0000092
S-141	01/08/97	02/05/97	45690	-0.0000011	0.0000069	0.0000091	0.0000026	0.0000079	0.0000074
S-141	02/05/97	03/05/97	45887	-0.0000025	0.0000065	0.0000106	0.0000029	0.0000082	0.0000071
S-141	03/05/97	04/10/97	58385	0.0000028	0.0000047	0.0000113	0.0000026	0.0000141	0.0000053
S-141	04/10/97	05/06/97	42734	0.0000066	0.0000038	0.0000211	0.0000110	0.0000276	0.0000116
S-141	05/06/97	06/04/97	47233	0.0000028	0.0000031	0.0000134	0.0000066	0.0000162	0.0000073
S-141	06/04/97	07/08/97	55538	0.0000094	0.0000031	0.0000040	0.0000083	0.0000134	0.0000088
S-141	07/08/97	08/12/97	56632	0.0000120	0.0000037	0.0000067	0.0000035	0.0000186	0.0000050
S-141	08/12/97	09/10/97	47681	0.0000116	0.0000039	0.0000105	0.0000048	0.0000221	0.0000062
S-141	09/10/97	10/09/97	46961	0.0000110	0.0000039	0.0000118	0.0000049	0.0000228	0.0000063
S-141	10/09/97	11/06/97	46037	0.0000082	0.0000037	0.0000123	0.0000057	0.0000206	0.0000068
S-141	11/06/97	12/05/97	47246	0.0000074	0.0000032	0.0000133	0.0000062	0.0000207	0.0000070
S-141	12/05/97	01/21/98	76605	0.0000042	0.0000018	0.0000076	0.0000032	0.0000118	0.0000037

**Table 1-7 Uranium-233, -234 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-142	01/08/97	02/05/97	45697	-0.0000066	0.0000058	0.0000066	0.0000019	0.0000000	0.0000061
S-142	02/05/97	03/05/97	45880	-0.0000050	0.0000054	0.0000085	0.0000027	0.0000036	0.0000061
S-142	03/05/97	04/10/97	58392	-0.0000009	0.0000040	0.0000099	0.0000025	0.0000091	0.0000048
S-142	04/10/97	05/06/97	42734	0.0000065	0.0000038	0.0000262	0.0000105	0.0000327	0.0000112
S-142	05/06/97	06/04/97	47233	0.0000027	0.0000031	0.0000140	0.0000064	0.0000167	0.0000071
S-142	06/04/97	07/08/97	55538	0.0000109	0.0000034	0.0000122	0.0000059	0.0000231	0.0000068
S-142	07/08/97	08/12/97	56666	0.0000092	0.0000032	0.0000091	0.0000041	0.0000183	0.0000052
S-142	08/12/97	09/10/97	47681	0.0000094	0.0000036	0.0000082	0.0000042	0.0000176	0.0000055
S-142	09/10/97	10/09/97	46968	0.0000096	0.0000038	0.0000135	0.0000057	0.0000231	0.0000069
S-142	10/09/97	11/06/97	46030	0.0000121	0.0000039	0.0000125	0.0000057	0.0000246	0.0000068
S-142	11/06/97	12/05/97	47253	0.0000101	0.0000035	0.0000114	0.0000059	0.0000215	0.0000069
S-142	12/05/97	01/21/98	76592	0.0000054	0.0000021	0.0000045	0.0000024	0.0000100	0.0000032
S-201	01/07/97	02/05/97	46907	0.0000017	0.0000073	0.0000082	0.0000025	0.0000099	0.0000077
S-201	02/05/97	03/04/97	43345	-0.0000018	0.0000061	0.0000085	0.0000027	0.0000068	0.0000067
S-201	03/04/97	04/08/97	57019	0.0000050	0.0000061	0.0000135	0.0000028	0.0000185	0.0000067
S-201	04/08/97	05/08/97	48857	0.0000098	0.0000038	0.0000161	0.0000068	0.0000259	0.0000078
S-201	05/08/97	06/10/97	51650	0.0000077	0.0000032	0.0000103	0.0000050	0.0000179	0.0000059
S-201	06/10/97	07/09/97	45636	b	b	b	b	b	b
S-201	07/09/97	08/12/97	54810	0.0000139	0.0000038	0.0000162	0.0000060	0.0000300	0.0000071
S-201	08/12/97	09/11/97	48572	0.0000113	0.0000039	0.0000109	0.0000047	0.0000222	0.0000061
S-201	09/11/97	10/09/97	44562	0.0000175	0.0000049	0.0000123	0.0000054	0.0000298	0.0000072
S-201	10/09/97	11/07/97	47036	0.0000119	0.0000038	0.0000144	0.0000065	0.0000262	0.0000075
S-201	11/07/97	12/05/97	45908	0.0000063	0.0000032	0.0000018	0.0000025	0.0000081	0.0000041
S-201	12/05/97	01/21/98	76449	0.0000059	0.0000021	0.0000062	0.0000027	0.0000122	0.0000034
S-207	01/08/97	02/05/97	45697	-0.0000008	0.0000056	0.0000145	0.0000031	0.0000137	0.0000064
S-207	02/05/97	03/04/97	43916	-0.0000052	0.0000056	0.0000194	0.0000043	0.0000142	0.0000071
S-207	03/04/97	04/10/97	59975	0.0000025	0.0000043	0.0000140	0.0000030	0.0000165	0.0000052
S-207	04/10/97	05/06/97	42679	0.0000115	0.0000043	b	b	b	b
S-207	05/06/97	06/04/97	47287	0.0000076	0.0000034	0.0000118	0.0000059	0.0000194	0.0000068
S-207	06/04/97	07/08/97	55538	0.0000107	0.0000032	0.0000185	0.0000068	0.0000292	0.0000075
S-207	07/08/97	08/12/97	56666	0.0000136	0.0000038	0.0000183	0.0000062	0.0000318	0.0000073
S-207	08/12/97	09/10/97	47654	0.0000056	0.0000032	0.0000158	0.0000062	0.0000213	0.0000070
S-207	09/10/97	10/09/97	46961	0.0000114	0.0000042	0.0000088	0.0000043	0.0000202	0.0000060
S-207	10/09/97	11/06/97	46037	0.0000132	0.0000039	0.0000157	0.0000065	0.0000289	0.0000076
S-207	11/06/97	12/05/97	47036	0.0000082	0.0000034	0.0000178	0.0000072	0.0000260	0.0000079
S-207	12/05/97	01/21/98	76585	0.0000092	0.0000025	0.0000108	0.0000039	0.0000200	0.0000046
S-209	01/08/97	02/05/97	45690	-0.0000040	0.0000060	0.0000123	0.0000033	0.0000082	0.0000068
S-209	02/05/97	03/05/97	45887	-0.0000028	0.0000055	0.0000165	0.0000039	0.0000138	0.0000068
S-209	03/05/97	04/10/97	58392	0.0000008	0.0000042	0.0000153	0.0000030	0.0000161	0.0000052
S-209	04/10/97	05/06/97	42734	0.0000084	0.0000040	0.0000135	0.0000065	0.0000219	0.0000076
S-209	05/06/97	06/04/97	47233	0.0000084	0.0000037	0.0000096	0.0000049	0.0000180	0.0000062
S-209	06/04/97	07/08/97	55538	0.0000109	0.0000033	0.0000134	0.0000058	0.0000242	0.0000067
S-209	07/08/97	08/12/97	56618	0.0000122	0.0000038	0.0000093	0.0000041	0.0000215	0.0000056
S-209	08/12/97	09/10/97	47681	0.0000110	0.0000039	0.0000092	0.0000048	0.0000202	0.0000062
S-209	09/10/97	10/09/97	46968	0.0000105	0.0000043	0.0000113	0.0000048	0.0000218	0.0000065
S-209	10/09/97	11/06/97	46030	0.0000096	0.0000035	0.0000164	0.0000069	0.0000260	0.0000078
S-209	11/06/97	12/05/97	47253	0.0000121	0.0000040	0.0000125	0.0000058	0.0000246	0.0000070
S-209	12/05/97	01/21/98	76599	0.0000076	0.0000023	0.0000099	0.0000038	0.0000175	0.0000044

**Table 1-7 Uranium-233, -234 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-038	01/08/97	02/05/97	32574	N/A	N/A	N/A	N/A	0.0000168	0.0000092
S-038	02/05/97	03/04/97	33640	N/A	N/A	N/A	N/A	0.0000171	0.0000107
S-038	03/04/97	04/10/97	45863	N/A	N/A	N/A	N/A	0.0000178	0.0000101
S-038	04/10/97	05/06/97	31315	N/A	N/A	N/A	N/A	0.0000192	0.0000075
S-038	05/06/97	06/04/97	35116	N/A	N/A	N/A	N/A	0.0000268	0.0000069
S-038	06/04/97	07/08/97	39910	N/A	N/A	N/A	N/A	0.0000225	0.0000061
S-038	07/08/97	08/12/97	40958	N/A	N/A	N/A	N/A	c	c
S-038	08/12/97	09/10/97	35560	N/A	N/A	N/A	N/A	0.0000147	0.0000068
S-038	09/10/97	10/09/97	34515	N/A	N/A	N/A	N/A	0.0000129	0.0000072
S-038	10/09/97	11/06/97	34533	N/A	N/A	N/A	N/A	0.0000181	0.0000063
S-038	11/06/97	12/05/97	36765	N/A	N/A	N/A	N/A	0.0000093	0.0000054
S-038	12/05/97	01/21/98	58883	N/A	N/A	N/A	N/A	0.0000133	0.0000042

a These data have not been corrected for temperature.

b Sample was lost; no result is available.

c Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

**Table 1-8 Uranium-235 Concentrations in Ambient Air for Onsite Samplers<sup>a</sup>**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-107	01/06/97	02/04/97	46975	-0.0000003	0.0000006	0.0000003	0.0000005	0.0000001	0.0000008
S-107	02/04/97	03/03/97	44419	-0.0000008	0.0000008	-0.0000002	0.0000003	-0.0000010	0.0000008
S-107	03/03/97	04/08/97	58283	-0.0000002	0.0000005	-0.0000001	0.0000005	-0.0000004	0.0000007
S-107	04/08/97	05/05/97	44460	0.0000004	0.0000012	0.0000004	0.0000009	0.0000008	0.0000015
S-107b	05/05/97	06/03/97	47212	-0.0000001	0.0000009	0.0000009	0.0000010	0.0000007	0.0000013
S-107	06/03/97	07/07/97	55497	0.0000007	0.0000008	0.0000010	0.0000010	0.0000017	0.0000012
S-107	07/07/97	08/07/97	50074	0.0000005	0.0000008	0.0000011	0.0000011	0.0000015	0.0000014
S-107	08/07/97	09/09/97	53315	-0.0000003	0.0000007	0.0000007	0.0000008	0.0000003	0.0000011
S-107	09/09/97	10/09/97	48524	0.0000005	0.0000009	0.0000000	0.0000005	0.0000005	0.0000010
S-107	10/09/97	11/05/97	44542	0.0000003	0.0000009	0.0000014	0.0000019	0.0000017	0.0000021
S-107	11/05/97	12/04/97	46954	0.0000002	0.0000009	0.0000005	0.0000010	0.0000008	0.0000014
S-107	12/04/97	01/20/98	76918	0.0000002	0.0000005	0.0000006	0.0000007	0.0000007	0.0000009
S-007	01/06/97	02/05/97	36477	N/A	N/A	N/A	N/A	-0.0000002	0.0000007
S-007	02/05/97	03/03/97	33883	N/A	N/A	N/A	N/A	0.0000000	0.0000012
S-007c	03/17/97	04/08/97	28636	N/A	N/A	N/A	N/A	0.0000003	0.0000034
S-007	04/08/97	05/05/97	39772	N/A	N/A	N/A	N/A	0.0000003	0.0000013
S-007	05/05/97	06/03/97	35716	N/A	N/A	N/A	N/A	-0.0000001	0.0000013
S-007	06/03/97	07/07/97	40887	N/A	N/A	N/A	N/A	0.0000008	0.0000013
S-007	07/07/97	08/07/97	37886	N/A	N/A	N/A	N/A	d	d
S-007	08/07/97	09/09/97	40682	N/A	N/A	N/A	N/A	-0.0000006	0.0000008
S-007	09/09/97	10/09/97	37842	N/A	N/A	N/A	N/A	0.0000012	0.0000015
S-007	10/09/97	11/05/97	27928	N/A	N/A	N/A	N/A	0.0000012	0.0000019
S-007	11/05/97	12/04/97	28968	N/A	N/A	N/A	N/A	0.0000003	0.0000016
S-007	12/04/97	01/20/98	60376	N/A	N/A	N/A	N/A	0.0000003	0.0000008

- a These data have not been corrected for temperature.  
 b Fine and Coarse samples were cross-contaminated. Total values only are valid.  
 c Sample for half of the month was lost; results reflect half month only.  
 d Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

**Table 1-9 Uranium-235 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-131	01/07/97	02/05/97	47124	-0.0000007	0.0000004	0.0000005	0.0000005	-0.0000001	0.0000006
S-131	02/05/97	03/04/97	43964	-0.0000001	0.0000008	0.0000009	0.0000008	0.0000008	0.0000011
S-131	03/04/97	04/09/97	58922	-0.0000002	0.0000004	0.0000006	0.0000006	0.0000004	0.0000007
S-131	04/09/97	05/08/97	46927	0.0000005	0.0000010	0.0000013	0.0000016	0.0000018	0.0000019
S-131	05/08/97	06/09/97	52493	0.0000004	0.0000008	0.0000013	0.0000015	0.0000018	0.0000017
S-131	06/09/97	07/09/97	48531	0.0000003	0.0000008	0.0000010	0.0000015	0.0000013	0.0000017
S-131	07/09/97	08/12/97	55415	0.0000009	0.0000010	0.0000004	0.0000008	0.0000013	0.0000012
S-131	08/12/97	09/11/97	49210	-0.0000002	0.0000006	0.0000005	0.0000009	0.0000003	0.0000011
S-131	09/11/97	10/09/97	45575	0.0000000	0.0000008	0.0000000	0.0000007	0.0000000	0.0000010
S-131	10/09/97	11/07/97	47110	0.0000003	0.0000007	0.0000005	0.0000010	0.0000008	0.0000012
S-131	11/07/97	12/05/97	45908	0.0000001	0.0000006	0.0000008	0.0000015	0.0000009	0.0000016
S-131	12/05/97	01/21/98	76605	0.0000000	0.0000004	0.0000007	0.0000008	0.0000007	0.0000009
S-132	01/07/97	02/05/97	47117	-0.0000003	0.0000005	0.0000007	0.0000006	0.0000004	0.0000008
S-132	02/05/97	03/04/97	43971	-0.0000009	0.0000012	0.0000011	0.0000009	0.0000001	0.0000015
S-132	03/04/97	04/09/97	55415	-0.0000003	0.0000002	0.0000023	0.0000012	0.0000021	0.0000012
S-132	04/09/97	05/08/97	42951	-0.0000001	0.0000009	0.0000023	0.0000024	0.0000022	0.0000026
S-132	05/08/97	06/09/97	49632	0.0000005	0.0000009	0.0000005	0.0000015	0.0000010	0.0000017
S-132	06/09/97	07/09/97	47729	0.0000015	0.0000012	0.0000022	0.0000020	0.0000036	0.0000023
S-132	07/09/97	08/12/97	55422	0.0000001	0.0000007	0.0000018	0.0000017	0.0000020	0.0000019
S-132	08/12/97	09/11/97	47763	0.0000014	0.0000011	0.0000026	0.0000021	0.0000040	0.0000024
S-132	09/11/97	10/09/97	45568	0.0000009	0.0000011	0.0000004	0.0000009	0.0000013	0.0000014
S-132	10/09/97	11/07/97	47097	0.0000001	0.0000009	0.0000008	0.0000014	0.0000009	0.0000016
S-132	11/07/97	12/05/97	42047	0.0000007	0.0000010	0.0000050	0.0000043	0.0000057	0.0000044
S-132	12/05/97	01/21/98	76599	0.0000003	0.0000005	0.0000010	0.0000011	0.0000013	0.0000012
S-134	01/07/97	02/05/97	47199	-0.0000007	0.0000005	0.0000003	0.0000006	-0.0000004	0.0000008
S-134	02/05/97	03/04/97	43794	-0.0000005	0.0000006	0.0000000	0.0000004	-0.0000005	0.0000007
S-134	03/04/97	04/08/97	56999	-0.0000001	0.0000003	0.0000001	0.0000005	0.0000000	0.0000006
S-134	04/08/97	05/08/97	48871	0.0000003	0.0000007	0.0000002	0.0000012	0.0000004	0.0000014
S-134	05/08/97	06/10/97	52133	0.0000003	0.0000008	0.0000009	0.0000012	0.0000012	0.0000014
S-134	06/10/97	07/09/97	47416	0.0000002	0.0000007	0.0000008	0.0000013	0.0000010	0.0000015
S-134	07/09/97	08/12/97	54437	0.0000002	0.0000008	-0.0000001	0.0000001	0.0000001	0.0000008
S-134	08/12/97	09/11/97	49183	0.0000008	0.0000009	0.0000012	0.0000014	0.0000019	0.0000017
S-134	09/11/97	10/09/97	45629	0.0000000	0.0000007	0.0000004	0.0000009	0.0000005	0.0000012
S-134	10/09/97	11/07/97	47199	0.0000001	0.0000007	-0.0000002	0.0000001	0.0000000	0.0000007
S-134	11/07/97	12/05/97	45867	-0.0000001	0.0000006	-0.0000004	0.0000004	-0.0000005	0.0000007
S-134	12/05/97	01/21/98	76599	-0.0000002	0.0000003	0.0000001	0.0000004	-0.0000002	0.0000005
S-136	01/07/97	02/05/97	46927	-0.0000001	0.0000007	0.0000005	0.0000005	0.0000004	0.0000009
S-136	02/05/97	03/04/97	43977	-0.0000002	0.0000008	0.0000003	0.0000006	0.0000001	0.0000010
S-136	03/04/97	04/10/97	60186	-0.0000002	0.0000003	0.0000001	0.0000004	-0.0000001	0.0000005
S-136	04/10/97	05/08/97	45690	0.0000003	0.0000008	0.0000005	0.0000011	0.0000008	0.0000014
S-136	05/08/97	06/03/97	41259	0.0000000	0.0000009	0.0000001	0.0000009	0.0000002	0.0000012
S-136	06/03/97	07/10/97	59758	0.0000008	0.0000008	0.0000001	0.0000007	0.0000009	0.0000010
S-136	07/10/97	08/12/97	53179	0.0000004	0.0000008	0.0000021	0.0000018	0.0000025	0.0000020
S-136	08/12/97	09/11/97	48973	0.0000004	0.0000009	0.0000006	0.0000011	0.0000010	0.0000014
S-136	09/11/97	10/10/97	47022	0.0000002	0.0000009	0.0000007	0.0000010	0.0000009	0.0000014
S-136	10/10/97	11/07/97	45785	0.0000000	0.0000007	0.0000003	0.0000008	0.0000002	0.0000011
S-136	11/07/97	12/05/97	45921	-0.0000001	0.0000006	0.0000003	0.0000009	0.0000002	0.0000011
S-136	12/05/97	01/21/98	76313	0.0000001	0.0000005	0.0000007	0.0000009	0.0000009	0.0000010

**Table 1-9 Uranium-235 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-137	01/08/97	02/05/97	45690	-0.0000005	0.0000005	0.0000004	0.0000005	-0.0000001	0.0000007
S-137	02/05/97	03/04/97	43977	-0.0000005	0.0000008	0.0000010	0.0000008	0.0000005	0.0000011
S-137	03/04/97	04/10/97	60193	-0.0000002	0.0000003	0.0000000	0.0000004	-0.0000002	0.0000005
S-137	04/10/97	05/08/97	45683	0.0000008	0.0000010	-0.0000002	0.0000002	0.0000006	0.0000010
S-137	05/08/97	06/03/97	42829	0.0000004	0.0000009	-0.0000002	0.0000003	0.0000002	0.0000009
S-137	06/03/97	07/10/97	59744	0.0000002	0.0000005	0.0000008	0.0000012	0.0000010	0.0000013
S-137	07/10/97	08/12/97	54172	0.0000003	0.0000007	0.0000000	0.0000006	0.0000004	0.0000009
S-137	08/12/97	09/11/97	48959	-0.0000002	0.0000006	0.0000005	0.0000009	0.0000003	0.0000011
S-137	09/11/97	10/09/97	45615	-0.0000002	0.0000008	0.0000009	0.0000013	0.0000007	0.0000015
S-137	10/09/97	11/07/97	47206	-0.0000002	0.0000006	0.0000002	0.0000006	0.0000000	0.0000009
S-137	11/07/97	12/05/97	45928	0.0000008	0.0000009	0.0000007	0.0000013	0.0000016	0.0000016
S-137	12/05/97	01/21/98	76306	0.0000002	0.0000005	0.0000013	0.0000011	0.0000014	0.0000012
S-138	01/08/97	02/05/97	45690	-0.0000002	0.0000007	0.0000008	0.0000006	0.0000006	0.0000010
S-138	02/05/97	03/04/97	44188	-0.0000002	0.0000006	0.0000007	0.0000007	0.0000005	0.0000009
S-138	03/04/97	04/10/97	59969	-0.0000002	0.0000002	0.0000004	0.0000005	0.0000002	0.0000006
S-138	04/10/97	05/06/97	42652	-0.0000001	0.0000008	0.0000015	0.0000019	0.0000014	0.0000020
S-138	05/06/97	06/04/97	47287	0.0000006	0.0000009	0.0000020	0.0000020	0.0000026	0.0000022
S-138	06/04/97	07/08/97	55252	0.0000004	0.0000007	0.0000004	0.0000013	0.0000008	0.0000015
S-138	07/08/97	08/12/97	56625	0.0000008	0.0000009	0.0000007	0.0000010	0.0000015	0.0000014
S-138	08/12/97	09/10/97	47681	0.0000001	0.0000008	0.0000006	0.0000010	0.0000006	0.0000013
S-138	09/10/97	10/09/97	46954	0.0000002	0.0000009	0.0000008	0.0000012	0.0000010	0.0000015
S-138	10/09/97	11/06/97	46030	0.0000011	0.0000010	0.0000010	0.0000016	0.0000021	0.0000019
S-138	11/06/97	12/05/97	45289	-0.0000004	0.0000007	0.0000010	0.0000016	0.0000006	0.0000018
S-138	12/05/97	01/21/98	76368	0.0000001	0.0000005	0.0000007	0.0000006	0.0000008	
S-140	01/08/97	02/05/97	45690	-0.0000005	0.0000007	0.0000010	0.0000007	0.0000006	0.0000010
S-140	02/05/97	03/05/97	45880	-0.0000002	0.0000007	0.0000025	0.0000012	0.0000022	0.0000014
S-140	03/05/97	04/10/97	58385	0.0000005	0.0000006	0.0000014	0.0000009	0.0000019	0.0000011
S-140	04/10/97	05/06/97	42734	0.0000015	0.0000012	0.0000021	0.0000036	0.0000036	0.0000038
S-140	05/06/97	06/04/97	47240	0.0000006	0.0000010	-0.0000002	0.0000014	0.0000004	0.0000017
S-140	06/04/97	07/08/97	55544	0.0000009	0.0000009	0.0000008	0.0000015	0.0000016	0.0000017
S-140	07/08/97	08/12/97	56659	0.0000009	0.0000010	0.0000014	0.0000015	0.0000023	0.0000018
S-140	08/12/97	09/10/97	47681	0.0000008	0.0000010	0.0000011	0.0000013	0.0000019	0.0000016
S-140	09/10/97	10/09/97	46961	0.0000006	0.0000010	0.0000011	0.0000014	0.0000017	0.0000017
S-140	10/09/97	11/06/97	46037	0.0000005	0.0000009	0.0000009	0.0000015	0.0000015	0.0000018
S-140	11/06/97	12/05/97	47246	0.0000006	0.0000009	0.0000056	0.0000051	0.0000062	0.0000052
S-140	12/05/97	01/21/98	76605	0.0000008	0.0000007	0.0000007	0.0000013	0.0000014	0.0000015
S-141	01/08/97	02/05/97	45690	-0.0000005	0.0000008	0.0000004	0.0000006	-0.0000001	0.0000010
S-141	02/05/97	03/05/97	45887	-0.0000004	0.0000010	0.0000001	0.0000006	-0.0000002	0.0000012
S-141	03/05/97	04/10/97	58385	-0.0000001	0.0000006	-0.0000001	0.0000005	-0.0000001	0.0000008
S-141	04/10/97	05/06/97	42734	-0.0000001	0.0000009	0.0000023	0.0000030	0.0000021	0.0000031
S-141	05/06/97	06/04/97	47233	0.0000001	0.0000008	0.0000022	0.0000022	0.0000023	0.0000023
S-141	06/04/97	07/08/97	55538	0.0000004	0.0000007	-0.0000002	0.0000002	0.0000002	0.0000008
S-141	07/08/97	08/12/97	56632	0.0000005	0.0000010	0.0000004	0.0000008	0.0000009	0.0000012
S-141	08/12/97	09/10/97	47681	0.0000012	0.0000011	0.0000015	0.0000015	0.0000026	0.0000019
S-141	09/10/97	10/09/97	46961	-0.0000002	0.0000007	0.0000006	0.0000011	0.0000004	0.0000013
S-141	10/09/97	11/06/97	46037	-0.0000004	0.0000008	0.0000018	0.0000019	0.0000014	0.0000020
S-141	11/06/97	12/05/97	47246	0.0000000	0.0000006	0.0000003	0.0000009	0.0000002	0.0000011
S-141	12/05/97	01/21/98	76605	-0.0000001	0.0000004	0.0000007	0.0000005	0.0000005	0.0000008

**Table 1-9 Uranium-235 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-142	01/08/97	02/05/97	45697	0.0000003	0.0000009	0.0000004	0.0000004	0.0000006	0.0000010
S-142	02/05/97	03/05/97	45880	-0.0000001	0.0000008	0.0000005	0.0000007	0.0000004	0.0000010
S-142	03/05/97	04/10/97	58392	-0.0000004	0.0000004	-0.0000001	0.0000005	-0.0000005	0.0000007
S-142	04/10/97	05/06/97	42734	0.0000004	0.0000009	-0.0000002	0.0000003	0.0000002	0.0000009
S-142	05/06/97	06/04/97	47233	0.0000002	0.0000007	0.0000009	0.0000013	0.0000010	0.0000015
S-142	06/04/97	07/08/97	55538	0.0000013	0.0000009	0.0000009	0.0000013	0.0000022	0.0000016
S-142	07/08/97	08/12/97	56666	0.0000002	0.0000006	0.0000004	0.0000008	0.0000006	0.0000010
S-142	08/12/97	09/10/97	47681	0.0000001	0.0000007	0.0000005	0.0000009	0.0000006	0.0000011
S-142	09/10/97	10/09/97	46968	0.0000000	0.0000007	0.0000012	0.0000015	0.0000012	0.0000017
S-142	10/09/97	11/06/97	46030	0.0000005	0.0000009	-0.0000002	0.0000001	0.0000003	0.0000009
S-142	11/06/97	12/05/97	47253	-0.0000002	0.0000006	-0.0000004	0.0000004	-0.0000005	0.0000007
S-142	12/05/97	01/21/98	76592	0.0000005	0.0000005	0.0000004	0.0000006	0.0000008	0.0000008
S-201	01/07/97	02/05/97	46907	0.0000005	0.0000013	0.0000006	0.0000006	0.0000011	0.0000015
S-201	02/05/97	03/04/97	43345	-0.0000008	0.0000006	0.0000006	0.0000007	-0.0000002	0.0000010
S-201	03/04/97	04/08/97	57019	0.0000001	0.0000009	0.0000002	0.0000006	0.0000004	0.0000011
S-201	04/08/97	05/08/97	48857	0.0000004	0.0000008	0.0000012	0.0000015	0.0000016	0.0000017
S-201	05/08/97	06/10/97	51650	0.0000000	0.0000007	0.0000009	0.0000012	0.0000010	0.0000014
S-201	06/10/97	07/09/97	45636	b	b	b	b	b	b
S-201	07/09/97	08/12/97	54810	0.0000005	0.0000008	0.0000010	0.0000012	0.0000016	0.0000015
S-201	08/12/97	09/11/97	48572	0.0000000	0.0000009	0.0000000	0.0000006	0.0000000	0.0000011
S-201	09/11/97	10/09/97	44562	0.0000002	0.0000009	0.0000012	0.0000014	0.0000014	0.0000017
S-201	10/09/97	11/07/97	47036	0.0000007	0.0000009	-0.0000003	0.0000011	0.0000004	0.0000014
S-201	11/07/97	12/05/97	45908	0.0000006	0.0000008	0.0000005	0.0000010	0.0000011	0.0000013
S-201	12/05/97	01/21/98	76449	0.0000003	0.0000005	0.0000004	0.0000005	0.0000007	0.0000008
S-207	01/08/97	02/05/97	45697	-0.0000001	0.0000005	0.0000006	0.0000006	0.0000005	0.0000008
S-207	02/05/97	03/04/97	43916	-0.0000002	0.0000008	0.0000004	0.0000007	0.0000001	0.0000011
S-207	03/04/97	04/10/97	59975	0.0000000	0.0000005	-0.0000001	0.0000004	-0.0000001	0.0000006
S-207	04/10/97	05/06/97	42679	0.0000001	0.0000008	b	b	b	b
S-207	05/06/97	06/04/97	47287	0.0000002	0.0000007	0.0000008	0.0000013	0.0000010	0.0000015
S-207	06/04/97	07/08/97	55538	0.0000003	0.0000007	0.0000006	0.0000010	0.0000009	0.0000012
S-207	07/08/97	08/12/97	56666	0.0000000	0.0000008	0.0000013	0.0000013	0.0000012	0.0000016
S-207	08/12/97	09/10/97	47654	0.0000002	0.0000008	0.0000005	0.0000010	0.0000007	0.0000013
S-207	09/10/97	10/09/97	46961	-0.0000003	0.0000007	0.0000001	0.0000006	-0.0000001	0.0000009
S-207	10/09/97	11/06/97	46037	0.0000002	0.0000008	0.0000002	0.0000008	0.0000004	0.0000011
S-207	11/06/97	12/05/97	47036	-0.0000002	0.0000007	0.0000009	0.0000015	0.0000007	0.0000016
S-207	12/05/97	01/21/98	76585	0.0000003	0.0000005	0.0000001	0.0000005	0.0000004	0.0000007
S-209	01/08/97	02/05/97	45690	0.0000002	0.0000009	0.0000000	0.0000004	0.0000002	0.0000010
S-209	02/05/97	03/05/97	45887	-0.0000009	0.0000004	0.0000006	0.0000007	-0.0000003	0.0000008
S-209	03/05/97	04/10/97	58392	-0.0000003	0.0000005	0.0000001	0.0000005	-0.0000002	0.0000007
S-209	04/10/97	05/06/97	42734	0.0000004	0.0000010	0.0000020	0.0000022	0.0000024	0.0000024
S-209	05/06/97	06/04/97	47233	0.0000004	0.0000010	-0.0000002	0.0000002	0.0000002	0.0000010
S-209	06/04/97	07/08/97	55538	-0.0000002	0.0000006	0.0000010	0.0000013	0.0000009	0.0000014
S-209	07/08/97	08/12/97	56618	0.0000006	0.0000008	-0.0000001	0.0000001	0.0000005	0.0000008
S-209	08/12/97	09/10/97	47681	0.0000005	0.0000009	0.0000002	0.0000008	0.0000008	0.0000012
S-209	09/10/97	10/09/97	46968	0.0000009	0.0000012	0.0000010	0.0000012	0.0000019	0.0000017
S-209	10/09/97	11/06/97	46030	-0.0000002	0.0000007	0.0000011	0.0000015	0.0000009	0.0000017
S-209	11/06/97	12/05/97	47253	0.0000006	0.0000010	0.0000006	0.0000016	0.0000012	0.0000018
S-209	12/05/97	01/21/98	76599	0.0000003	0.0000005	0.0000001	0.0000004	0.0000004	0.0000006

**Table 1-9 Uranium-235 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-038	01/08/97	02/05/97	32574	N/A	N/A	N/A	N/A	0.0000008	0.0000011
S-038	02/05/97	03/04/97	33640	N/A	N/A	N/A	N/A	0.0000012	0.0000017
S-038	03/04/97	04/10/97	45863	N/A	N/A	N/A	N/A	0.0000002	0.0000017
S-038	04/10/97	05/06/97	31315	N/A	N/A	N/A	N/A	0.0000007	0.0000018
S-038	05/06/97	06/04/97	35116	N/A	N/A	N/A	N/A	0.0000010	0.0000015
S-038	06/04/97	07/08/97	39910	N/A	N/A	N/A	N/A	0.0000006	0.0000013
S-038	07/08/97	08/12/97	40958	N/A	N/A	N/A	N/A	c	c
S-038	08/12/97	09/10/97	35560	N/A	N/A	N/A	N/A	0.0000011	0.0000017
S-038	09/10/97	10/09/97	34515	N/A	N/A	N/A	N/A	0.0000009	0.0000019
S-038	10/09/97	11/06/97	34533	N/A	N/A	N/A	N/A	0.0000007	0.0000014
S-038	11/06/97	12/05/97	36765	N/A	N/A	N/A	N/A	0.0000005	0.0000013
S-038	12/05/97	01/21/98	58883	N/A	N/A	N/A	N/A	0.0000007	0.0000009

a These data have not been corrected for temperature.

b Sample was lost; no result is available.

c Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

**Table 1-10 Uranium-238 Concentrations in Ambient Air for Onsite Samplers<sup>a</sup>**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-107	01/06/97	02/04/97	46975	-0.0000028	0.0000055	0.0000214	0.0000044	0.0000186	0.0000071
S-107	02/04/97	03/03/97	44419	0.0000000	0.0000061	0.0000135	0.0000033	0.0000134	0.0000070
S-107	03/03/97	04/08/97	58283	0.0000040	0.0000024	0.0000206	0.0000043	0.0000247	0.0000049
S-107	04/08/97	05/05/97	44460	0.0000218	0.0000061	0.0000192	0.0000068	0.0000410	0.0000092
S-107b	05/05/97	06/03/97	47212	0.0000085	0.0000037	0.0000122	0.0000049	0.0000207	0.0000062
S-107	06/03/97	07/07/97	55497	0.0000106	0.0000033	0.0000087	0.0000039	0.0000193	0.0000051
S-107	07/07/97	08/07/97	50074	0.0000112	0.0000037	0.0000159	0.0000060	0.0000271	0.0000071
S-107	08/07/97	09/09/97	53315	0.0000088	0.0000033	0.0000119	0.0000048	0.0000207	0.0000058
S-107	09/09/97	10/09/97	48524	0.0000124	0.0000038	0.0000156	0.0000076	0.0000280	0.0000085
S-107	10/09/97	11/05/97	44542	0.0000115	0.0000038	0.0000278	0.0000110	0.0000393	0.0000117
S-107	11/05/97	12/04/97	46954	0.0000077	0.0000033	0.0000108	0.0000057	0.0000185	0.0000066
S-107	12/04/97	01/20/98	76918	0.0000061	0.0000021	0.0000115	0.0000044	0.0000176	0.0000049
S-007	01/06/97	02/05/97	36477	N/A	N/A	N/A	N/A	0.0000332	0.0000099
S-007	02/05/97	03/03/97	33883	N/A	N/A	N/A	N/A	0.0000192	0.0000104
S-007c	03/17/97	04/08/97	28636	N/A	N/A	N/A	N/A	0.0000580	0.0000244
S-007	04/08/97	05/05/97	39772	N/A	N/A	N/A	N/A	0.0000255	0.0000068
S-007	05/05/97	06/03/97	35716	N/A	N/A	N/A	N/A	0.0000221	0.0000070
S-007	06/03/97	07/07/97	40887	N/A	N/A	N/A	N/A	0.0000249	0.0000065
S-007	07/07/97	08/07/97	37886	N/A	N/A	N/A	N/A	d	d
S-007	08/07/97	09/09/97	40682	N/A	N/A	N/A	N/A	0.0000030	0.0000043
S-007	09/09/97	10/09/97	37842	N/A	N/A	N/A	N/A	0.0000254	0.0000070
S-007	10/09/97	11/05/97	27928	N/A	N/A	N/A	N/A	0.0000261	0.0000085
S-007	11/05/97	12/04/97	28968	N/A	N/A	N/A	N/A	0.0000176	0.0000072
S-007	12/04/97	01/20/98	60376	N/A	N/A	N/A	N/A	0.0000131	0.0000039

- a These data have not been corrected for temperature.  
 b Fine and Coarse samples were cross-contaminated. Total values only are valid.  
 c Sample for half of the month was lost; results reflect half month only.  
 d Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

**Table 1-11 Uranium-238 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**

<b>Location</b>	<b>On Date</b>	<b>Off Date</b>	<b>Flow (m<sup>3</sup>)</b>	<b>Fine Conc (pCi/m<sup>3</sup>)</b>	<b>Fine Error (pCi/m<sup>3</sup>)</b>	<b>Coarse Conc (pCi/m<sup>3</sup>)</b>	<b>Coarse Error (pCi/m<sup>3</sup>)</b>	<b>Total Conc (pCi/m<sup>3</sup>)</b>	<b>Total Error (pCi/m<sup>3</sup>)</b>
S-131	01/07/97	02/05/97	47124	-0.0000048	0.0000053	0.0000159	0.0000032	0.0000111	0.0000062
S-131	02/05/97	03/04/97	43964	0.0000018	0.0000063	0.0000267	0.0000049	0.0000284	0.0000079
S-131	03/04/97	04/09/97	58922	0.0000066	0.0000029	0.0000230	0.0000041	0.0000296	0.0000050
S-131	04/09/97	05/08/97	46927	0.0000095	0.0000037	0.0000178	0.0000070	0.0000273	0.0000080
S-131	05/08/97	06/09/97	52493	0.0000091	0.0000034	0.0000153	0.0000061	0.0000244	0.0000069
S-131	06/09/97	07/09/97	48531	0.0000154	0.0000042	0.0000198	0.0000079	0.0000352	0.0000089
S-131	07/09/97	08/12/97	55415	0.0000153	0.0000041	0.0000207	0.0000073	0.0000360	0.0000084
S-131	08/12/97	09/11/97	49210	0.0000096	0.0000036	0.0000182	0.0000071	0.0000278	0.0000079
S-131	09/11/97	10/09/97	45575	0.0000068	0.0000038	0.0000102	0.0000052	0.0000170	0.0000064
S-131	10/09/97	11/07/97	47110	0.0000137	0.0000039	0.0000197	0.0000078	0.0000333	0.0000087
S-131	11/07/97	12/05/97	45908	0.0000104	0.0000036	0.0000217	0.0000094	0.0000321	0.0000101
S-131	12/05/97	01/21/98	76605	0.0000076	0.0000023	0.0000125	0.0000047	0.0000200	0.0000052
S-132	01/07/97	02/05/97	47117	0.0000011	0.0000057	0.0000229	0.0000043	0.0000240	0.0000072
S-132	02/05/97	03/04/97	43971	-0.0000012	0.0000079	0.0000208	0.0000044	0.0000195	0.0000090
S-132	03/04/97	04/09/97	55415	0.0000079	0.0000025	0.0000370	0.0000070	0.0000449	0.0000074
S-132	04/09/97	05/08/97	42951	0.0000122	0.0000045	0.0000410	0.0000137	0.0000531	0.0000144
S-132	05/08/97	06/09/97	49632	0.0000137	0.0000039	0.0000268	0.0000092	0.0000405	0.0000100
S-132	06/09/97	07/09/97	47729	0.0000175	0.0000045	0.0000244	0.0000086	0.0000420	0.0000097
S-132	07/09/97	08/12/97	55422	0.0000145	0.0000038	0.0000250	0.0000088	0.0000395	0.0000095
S-132	08/12/97	09/11/97	47763	0.0000159	0.0000044	0.0000298	0.0000101	0.0000457	0.0000110
S-132	09/11/97	10/09/97	45568	0.0000113	0.0000042	0.0000228	0.0000083	0.0000341	0.0000092
S-132	10/09/97	11/07/97	47097	0.0000141	0.0000039	0.0000313	0.0000108	0.0000455	0.0000115
S-132	11/07/97	12/05/97	42047	0.0000135	0.0000042	0.0000383	0.0000148	0.0000518	0.0000153
S-132	12/05/97	01/21/98	76599	0.0000109	0.0000026	0.0000149	0.0000054	0.0000258	0.0000060
S-134	01/07/97	02/05/97	47199	-0.0000052	0.0000056	0.0000083	0.0000026	0.0000031	0.0000062
S-134	02/05/97	03/04/97	43794	-0.0000035	0.0000057	0.0000066	0.0000021	0.0000031	0.0000061
S-134	03/04/97	04/08/97	56999	-0.0000029	0.0000022	0.0000093	0.0000024	0.0000064	0.0000033
S-134	04/08/97	05/08/97	48871	0.0000036	0.0000032	0.0000098	0.0000048	0.0000133	0.0000057
S-134	05/08/97	06/10/97	52133	0.0000046	0.0000028	0.0000113	0.0000049	0.0000159	0.0000056
S-134	06/10/97	07/09/97	47416	0.0000087	0.0000034	0.0000113	0.0000053	0.0000200	0.0000063
S-134	07/09/97	08/12/97	54437	0.0000088	0.0000033	0.0000102	0.0000051	0.0000189	0.0000061
S-134	08/12/97	09/11/97	49183	0.0000086	0.0000034	0.0000087	0.0000049	0.0000173	0.0000059
S-134	09/11/97	10/09/97	45629	0.0000068	0.0000035	0.0000082	0.0000047	0.0000150	0.0000058
S-134	10/09/97	11/07/97	47199	0.0000073	0.0000032	0.0000067	0.0000044	0.0000140	0.0000054
S-134	11/07/97	12/05/97	45867	0.0000029	0.0000028	0.0000046	0.0000045	0.0000075	0.0000053
S-134	12/05/97	01/21/98	76599	0.0000040	0.0000019	0.0000058	0.0000032	0.0000099	0.0000037
S-136	01/07/97	02/05/97	46927	-0.0000042	0.0000057	0.0000076	0.0000022	0.0000034	0.0000061
S-136	02/05/97	03/04/97	43977	-0.0000058	0.0000057	0.0000056	0.0000021	-0.0000002	0.0000061
S-136	03/04/97	04/10/97	60186	0.0000007	0.0000023	0.0000078	0.0000021	0.0000085	0.0000031
S-136	04/10/97	05/08/97	45690	0.0000026	0.0000033	0.0000098	0.0000049	0.0000125	0.0000059
S-136	05/08/97	06/03/97	41259	0.0000044	0.0000035	0.0000080	0.0000047	0.0000124	0.0000058
S-136	06/03/97	07/10/97	59758	0.0000114	0.0000032	0.0000059	0.0000036	0.0000173	0.0000049
S-136	07/10/97	08/12/97	53179	0.0000101	0.0000034	0.0000073	0.0000044	0.0000173	0.0000055
S-136	08/12/97	09/11/97	48973	0.0000086	0.0000036	0.0000112	0.0000057	0.0000198	0.0000067
S-136	09/11/97	10/10/97	47022	0.0000089	0.0000037	0.0000064	0.0000041	0.0000154	0.0000055
S-136	10/10/97	11/07/97	45785	0.0000076	0.0000033	0.0000139	0.0000068	0.0000215	0.0000075
S-136	11/07/97	12/05/97	45921	0.0000058	0.0000030	0.0000111	0.0000064	0.0000169	0.0000070
S-136	12/05/97	01/21/98	76313	0.0000032	0.0000018	0.0000057	0.0000031	0.0000088	0.0000036

**Table 1-11 Uranium-238 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-137	01/08/97	02/05/97	45690	-0.0000023	0.0000057	0.0000175	0.0000039	0.0000152	0.0000069
S-137	02/05/97	03/04/97	43977	-0.0000046	0.0000059	0.0000145	0.0000033	0.0000100	0.0000067
S-137	03/04/97	04/10/97	60193	-0.0000010	0.0000022	0.0000143	0.0000029	0.0000133	0.0000036
S-137	04/10/97	05/08/97	45683	0.0000054	0.0000036	0.0000165	0.0000089	0.0000219	0.0000096
S-137	05/08/97	06/03/97	42829	0.0000065	0.0000035	0.0000098	0.0000052	0.0000163	0.0000063
S-137	06/03/97	07/10/97	59744	0.0000062	0.0000025	0.0000121	0.0000049	0.0000184	0.0000055
S-137	07/10/97	08/12/97	54172	0.0000090	0.0000032	0.0000110	0.0000050	0.0000199	0.0000059
S-137	08/12/97	09/11/97	48959	0.0000097	0.0000038	0.0000099	0.0000051	0.0000197	0.0000063
S-137	09/11/97	10/09/97	45615	0.0000074	0.0000036	0.0000095	0.0000053	0.0000168	0.0000064
S-137	10/09/97	11/07/97	47206	0.0000095	0.0000035	0.0000114	0.0000055	0.0000210	0.0000065
S-137	11/07/97	12/05/97	45928	0.0000077	0.0000032	0.0000138	0.0000071	0.0000215	0.0000078
S-137	12/05/97	01/21/98	76306	0.0000083	0.0000024	0.0000079	0.0000035	0.0000162	0.0000043
S-138	01/08/97	02/05/97	45690	0.0000013	0.0000065	0.0000097	0.0000026	0.0000110	0.0000069
S-138	02/05/97	03/04/97	44188	-0.0000049	0.0000054	0.0000076	0.0000025	0.0000027	0.0000059
S-138	03/04/97	04/10/97	59969	-0.0000008	0.0000021	0.0000106	0.0000024	0.0000098	0.0000032
S-138	04/10/97	05/06/97	42652	0.0000069	0.0000039	0.0000113	0.0000057	0.0000182	0.0000069
S-138	05/06/97	06/04/97	47287	0.0000053	0.0000031	0.0000137	0.0000060	0.0000190	0.0000067
S-138	06/04/97	07/08/97	55252	0.0000108	0.0000032	0.0000108	0.0000050	0.0000215	0.0000059
S-138	07/08/97	08/12/97	56625	0.0000099	0.0000034	0.0000135	0.0000057	0.0000234	0.0000066
S-138	08/12/97	09/10/97	47681	0.0000095	0.0000037	0.0000157	0.0000068	0.0000252	0.0000077
S-138	09/10/97	10/09/97	46954	0.0000090	0.0000038	0.0000155	0.0000066	0.0000245	0.0000076
S-138	10/09/97	11/06/97	46030	0.0000080	0.0000034	0.0000116	0.0000060	0.0000197	0.0000069
S-138	11/06/97	12/05/97	45289	0.0000057	0.0000032	0.0000099	0.0000060	0.0000157	0.0000068
S-138	12/05/97	01/21/98	76368	0.0000070	0.0000023	0.0000061	0.0000030	0.0000131	0.0000038
S-140	01/08/97	02/05/97	45690	0.0000062	0.0000076	0.0000314	0.0000051	0.0000376	0.0000092
S-140	02/05/97	03/05/97	45880	0.0000072	0.0000063	0.0000393	0.0000070	0.0000465	0.0000094
S-140	03/05/97	04/10/97	58385	0.0000104	0.0000050	0.0000368	0.0000064	0.0000471	0.0000082
S-140	04/10/97	05/06/97	42734	0.0000156	0.0000047	0.0000437	0.0000164	0.0000593	0.0000171
S-140	05/06/97	06/04/97	47240	0.0000074	0.0000037	0.0000269	0.0000101	0.0000343	0.0000108
S-140	06/04/97	07/08/97	55544	0.0000174	0.0000041	0.0000261	0.0000089	0.0000435	0.0000098
S-140	07/08/97	08/12/97	56659	0.0000191	0.0000043	0.0000300	0.0000099	0.0000492	0.0000108
S-140	08/12/97	09/10/97	47681	0.0000156	0.0000044	0.0000300	0.0000099	0.0000456	0.0000109
S-140	09/10/97	10/09/97	46961	0.0000142	0.0000042	0.0000198	0.0000076	0.0000340	0.0000087
S-140	10/09/97	11/06/97	46037	0.0000144	0.0000039	0.0000253	0.0000097	0.0000397	0.0000105
S-140	11/06/97	12/05/97	47246	0.0000253	0.0000052	0.0000486	0.0000189	0.0000739	0.0000196
S-140	12/05/97	01/21/98	76605	0.0000181	0.0000035	0.0000229	0.0000086	0.0000409	0.0000093
S-141	01/08/97	02/05/97	45690	-0.0000031	0.0000067	0.0000102	0.0000028	0.0000071	0.0000072
S-141	02/05/97	03/05/97	45887	-0.0000036	0.0000063	0.0000111	0.0000029	0.0000075	0.0000070
S-141	03/05/97	04/10/97	58385	0.0000006	0.0000046	0.0000123	0.0000027	0.0000129	0.0000054
S-141	04/10/97	05/06/97	42734	0.0000045	0.0000036	0.0000184	0.0000095	0.0000230	0.0000101
S-141	05/06/97	06/04/97	47233	0.0000020	0.0000029	0.0000165	0.0000070	0.0000184	0.0000076
S-141	06/04/97	07/08/97	55538	0.0000049	0.0000027	0.0000111	0.0000095	0.0000160	0.0000098
S-141	07/08/97	08/12/97	56632	0.0000116	0.0000036	0.0000091	0.0000045	0.0000207	0.0000057
S-141	08/12/97	09/10/97	47681	0.0000110	0.0000038	0.0000101	0.0000052	0.0000211	0.0000064
S-141	09/10/97	10/09/97	46961	-0.0000105	0.0000018	0.0000101	0.0000050	-0.0000005	0.0000053
S-141	10/09/97	11/06/97	46037	0.0000124	0.0000041	0.0000209	0.0000084	0.0000333	0.0000094
S-141	11/06/97	12/05/97	47246	0.0000084	0.0000032	0.0000115	0.0000063	0.0000199	0.0000071
S-141	12/05/97	01/21/98	76605	0.0000054	0.0000019	0.0000059	0.0000030	0.0000112	0.0000036

**Table 1-11 Uranium-238 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-142	01/08/97	02/05/97	45697	-0.0000054	0.0000059	0.0000063	0.0000018	0.000009	0.0000062
S-142	02/05/97	03/05/97	45880	-0.0000041	0.0000054	0.0000104	0.0000030	0.0000063	0.0000062
S-142	03/05/97	04/10/97	58392	-0.0000019	0.0000042	0.0000111	0.0000027	0.0000092	0.0000049
S-142	04/10/97	05/06/97	42734	0.0000057	0.0000037	0.0000183	0.0000080	0.0000241	0.0000088
S-142	05/06/97	06/04/97	47233	0.0000052	0.0000032	0.0000096	0.0000050	0.0000148	0.0000059
S-142	06/04/97	07/08/97	55538	0.0000072	0.0000029	0.0000119	0.0000055	0.0000192	0.0000062
S-142	07/08/97	08/12/97	56666	0.0000087	0.0000030	0.0000111	0.0000050	0.0000198	0.0000058
S-142	08/12/97	09/10/97	47681	0.0000081	0.0000034	0.0000111	0.0000054	0.0000192	0.0000064
S-142	09/10/97	10/09/97	46968	0.0000134	0.0000042	0.0000136	0.0000063	0.0000270	0.0000075
S-142	10/09/97	11/06/97	46030	0.0000112	0.0000037	0.0000147	0.0000067	0.0000259	0.0000077
S-142	11/06/97	12/05/97	47253	0.0000070	0.0000031	0.0000096	0.0000059	0.0000166	0.0000067
S-142	12/05/97	01/21/98	76592	0.0000055	0.0000021	0.0000052	0.0000028	0.0000106	0.0000035
S-201	01/07/97	02/05/97	46907	-0.0000001	0.0000071	0.0000072	0.0000024	0.0000070	0.0000075
S-201	02/05/97	03/04/97	43345	-0.0000009	0.0000061	0.0000081	0.0000026	0.0000072	0.0000066
S-201	03/04/97	04/08/97	57019	0.0000010	0.0000057	0.0000127	0.0000027	0.0000138	0.0000063
S-201	04/08/97	05/08/97	48857	0.0000069	0.0000035	0.0000112	0.0000052	0.0000181	0.0000062
S-201	05/08/97	06/10/97	51650	0.0000053	0.0000029	0.0000104	0.0000047	0.0000156	0.0000055
S-201	06/10/97	07/09/97	45636	b	b	b	b	b	b
S-201	07/09/97	08/12/97	54810	0.0000113	0.0000035	0.0000112	0.0000052	0.0000226	0.0000063
S-201	08/12/97	09/11/97	48572	0.0000129	0.0000040	0.0000104	0.0000050	0.0000233	0.0000064
S-201	09/11/97	10/09/97	44562	0.0000087	0.0000038	0.0000135	0.0000062	0.0000222	0.0000073
S-201	10/09/97	11/07/97	47036	0.0000111	0.0000037	0.0000088	0.0000056	0.0000199	0.0000067
S-201	11/07/97	12/05/97	45908	0.0000063	0.0000031	0.0000031	0.0000035	0.0000095	0.0000047
S-201	12/05/97	01/21/98	76449	0.0000051	0.0000019	0.0000049	0.0000027	0.0000099	0.0000033
S-207	01/08/97	02/05/97	45697	-0.0000005	0.0000056	0.0000120	0.0000027	0.0000115	0.0000063
S-207	02/05/97	03/04/97	43916	-0.0000022	0.0000058	0.0000143	0.0000036	0.0000121	0.0000068
S-207	03/04/97	04/10/97	59975	0.0000005	0.0000043	0.0000171	0.0000034	0.0000176	0.0000055
S-207	04/10/97	05/06/97	42679	0.0000135	0.0000044	b	b	b	b
S-207	05/06/97	06/04/97	47287	0.0000051	0.0000031	0.0000139	0.0000060	0.0000190	0.0000067
S-207	06/04/97	07/08/97	55538	0.0000108	0.0000031	0.0000164	0.0000060	0.0000271	0.0000068
S-207	07/08/97	08/12/97	56666	0.0000110	0.0000035	0.0000152	0.0000059	0.0000263	0.0000068
S-207	08/12/97	09/10/97	47654	0.0000079	0.0000033	0.0000169	0.0000070	0.0000248	0.0000077
S-207	09/10/97	10/09/97	46961	0.0000080	0.0000037	0.0000114	0.0000055	0.0000194	0.0000066
S-207	10/09/97	11/06/97	46037	0.0000104	0.0000036	0.0000207	0.0000084	0.0000311	0.0000091
S-207	11/06/97	12/05/97	47036	0.0000119	0.0000037	0.0000113	0.0000061	0.0000232	0.0000071
S-207	12/05/97	01/21/98	76585	0.0000086	0.0000024	0.0000112	0.0000043	0.0000197	0.0000049
S-209	01/08/97	02/05/97	45690	-0.0000044	0.0000060	0.0000117	0.0000031	0.0000073	0.0000068
S-209	02/05/97	03/05/97	45887	-0.0000053	0.0000053	0.0000185	0.0000042	0.0000133	0.0000067
S-209	03/05/97	04/10/97	58392	-0.0000023	0.0000042	0.0000141	0.0000029	0.0000119	0.0000051
S-209	04/10/97	05/06/97	42734	0.0000064	0.0000038	0.0000103	0.0000051	0.0000167	0.0000063
S-209	05/06/97	06/04/97	47233	0.0000079	0.0000036	0.0000111	0.0000050	0.0000190	0.0000062
S-209	06/04/97	07/08/97	55538	0.0000088	0.0000031	0.0000116	0.0000051	0.0000203	0.0000059
S-209	07/08/97	08/12/97	56618	0.0000127	0.0000037	0.0000112	0.0000050	0.0000239	0.0000062
S-209	08/12/97	09/10/97	47681	0.0000093	0.0000036	0.0000079	0.0000050	0.0000172	0.0000061
S-209	09/10/97	10/09/97	46968	0.0000088	0.0000041	0.0000081	0.0000046	0.0000169	0.0000061
S-209	10/09/97	11/06/97	46030	0.0000102	0.0000036	0.0000157	0.0000074	0.0000259	0.0000082
S-209	11/06/97	12/05/97	47253	0.0000119	0.0000040	0.0000138	0.0000067	0.0000257	0.0000078
S-209	12/05/97	01/21/98	76599	0.0000074	0.0000022	0.0000094	0.0000040	0.0000168	0.0000046

**Table 1-11 Uranium-238 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-038	01/08/97	02/05/97	32574	N/A	N/A	N/A	N/A	0.0000196	0.0000094
S-038	02/05/97	03/04/97	33640	N/A	N/A	N/A	N/A	0.0000080	0.0000095
S-038	03/04/97	04/10/97	45863	N/A	N/A	N/A	N/A	0.0000190	0.0000104
S-038	04/10/97	05/06/97	31315	N/A	N/A	N/A	N/A	0.0000077	0.0000068
S-038	05/06/97	06/04/97	35116	N/A	N/A	N/A	N/A	0.0000196	0.0000063
S-038	06/04/97	07/08/97	39910	N/A	N/A	N/A	N/A	0.0000165	0.0000055
S-038	07/08/97	08/12/97	40958	N/A	N/A	N/A	N/A	c	c
S-038	08/12/97	09/10/97	35560	N/A	N/A	N/A	N/A	0.0000181	0.0000068
S-038	09/10/97	10/09/97	34515	N/A	N/A	N/A	N/A	0.0000124	0.0000069
S-038	10/09/97	11/06/97	34533	N/A	N/A	N/A	N/A	0.0000158	0.0000061
S-038	11/06/97	12/05/97	36765	N/A	N/A	N/A	N/A	0.0000116	0.0000056
S-038	12/05/97	01/21/98	58883	N/A	N/A	N/A	N/A	0.0000112	0.0000039

a These data have not been corrected for temperature.

b Sample was lost; no result is available.

c Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable

**Table 1-12 Americium-241 Concentrations in Ambient Air for Onsite Samplers<sup>a</sup>**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-107	01/06/97	02/04/97	46975	0.0000430	0.0000053	0.0000037	0.0000011	0.0000467	0.0000054
S-107	02/04/97	03/03/97	44419	0.0000014	0.0000010	0.0000010	0.0000009	0.0000023	0.0000013
S-107	03/03/97	04/08/97	58283	0.0000035	0.0000005	0.0000105	0.0000031	0.0000140	0.0000031
S-107	04/08/97	05/05/97	44460	0.0000022	0.0000014	0.0000067	0.0000038	0.0000089	0.0000040
S-107b	05/05/97	06/03/97	47212	0.0000021	0.0000012	0.0000018	0.0000018	0.0000039	0.0000021
S-107	06/03/97	07/07/97	55497	0.0000014	0.0000008	0.0000031	0.0000022	0.0000044	0.0000023
S-107	07/07/97	08/07/97	50074	0.0000020	0.0000011	0.0000036	0.0000026	0.0000056	0.0000029
S-107	08/07/97	09/09/97	53315	0.0000015	0.0000011	0.0000023	0.0000020	0.0000038	0.0000023
S-107	09/09/97	10/09/97	48524	0.0000039	0.0000016	0.0000038	0.0000025	0.0000077	0.0000030
S-107	10/09/97	11/05/97	44542	0.0000027	0.0000012	0.0000063	0.0000046	0.0000090	0.0000047
S-107	11/05/97	12/04/97	46954	0.0000015	0.0000010	0.0000000	0.0000014	0.0000014	0.0000018
S-107	12/04/97	01/20/98	76918	0.0000010	0.0000006	0.0000003	0.0000009	0.0000012	0.0000010
S-007	01/06/97	02/05/97	36477	N/A	N/A	N/A	N/A	0.0000112	0.0000021
S-007	02/05/97	03/03/97	33883	N/A	N/A	N/A	N/A	0.0000038	0.0000017
S-007c	03/17/97	04/08/97	28636	N/A	N/A	N/A	N/A	d	d
S-007	04/08/97	05/05/97	39772	N/A	N/A	N/A	N/A	0.0000047	0.0000025
S-007	05/05/97	06/03/97	35716	N/A	N/A	N/A	N/A	0.0000047	0.0000020
S-007	06/03/97	07/07/97	40887	N/A	N/A	N/A	N/A	0.0000082	0.0000023
S-007	07/07/97	08/07/97	37886	N/A	N/A	N/A	N/A	e	e
S-007	08/07/97	09/09/97	40682	N/A	N/A	N/A	N/A	0.0000033	0.0000016
S-007	09/09/97	10/09/97	37842	N/A	N/A	N/A	N/A	0.0000112	0.0000034
S-007	10/09/97	11/05/97	27928	N/A	N/A	N/A	N/A	0.0000108	0.0000038
S-007	11/05/97	12/04/97	28968	N/A	N/A	N/A	N/A	0.0000037	0.0000023
S-007	12/04/97	01/20/98	60376	N/A	N/A	N/A	N/A	0.0000038	0.0000015

- a These data have not been corrected for temperature.  
 b Fine and Coarse samples were cross-contaminated. Total values only are valid.  
 c Sample for half of the month was lost; results reflect half month only.  
 d Laboratory analysis failed; there is no data for this month.  
 e Sample for the first half of the month was lost; no analysis was performed.  
 N/A = Not Applicable

**Table 1-13 Americium-241 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-131	01/07/97	02/05/97	47124	0.0000008	0.0000006	-0.0000002	0.0000004	0.0000006	0.0000007
S-131	02/05/97	03/04/97	43964	0.0000007	0.0000010	0.0000006	0.0000009	0.0000012	0.0000014
S-131	03/04/97	04/09/97	58922	0.0000001	0.0000001	0.0000013	0.0000014	0.0000014	0.0000014
S-131	04/09/97	05/08/97	46927	-0.0000002	0.0000006	0.0000007	0.0000022	0.0000004	0.0000023
S-131	05/08/97	06/09/97	52493	0.0000000	0.0000005	0.0000006	0.0000016	0.0000006	0.0000017
S-131	06/09/97	07/09/97	48531	-0.0000007	0.0000008	0.0000018	0.0000022	0.0000011	0.0000023
S-131	07/09/97	08/12/97	55415	-0.0000001	0.0000006	-0.0000003	0.0000007	-0.0000004	0.0000009
S-131	08/12/97	09/11/97	49210	-0.0000001	0.0000006	-0.0000002	0.0000013	-0.0000003	0.0000014
S-131	09/11/97	10/09/97	45575	0.0000007	0.0000011	0.0000010	0.0000019	0.0000017	0.0000022
S-131	10/09/97	11/07/97	47110	0.0000001	0.0000006	0.0000009	0.0000020	0.0000010	0.0000021
S-131	11/07/97	12/05/97	45908	-0.0000002	0.0000013	0.0000032	0.0000038	0.0000029	0.0000040
S-131	12/05/97	01/21/98	76605	-0.0000009	0.0000011	0.0000016	0.0000014	0.0000007	0.0000018
S-132	01/07/97	02/05/97	47117	0.0000013	0.0000007	-0.0000003	0.0000003	0.0000010	0.0000007
S-132	02/05/97	03/04/97	43971	-0.0000003	0.0000004	-0.0000002	0.0000010	-0.0000005	0.0000011
S-132	03/04/97	04/09/97	55415	0.0000010	0.0000031	0.0000004	0.0000008	0.0000014	0.0000032
S-132	04/09/97	05/08/97	42951	0.0000005	0.0000008	-0.0000008	0.0000029	-0.0000003	0.0000030
S-132	05/08/97	06/09/97	49632	-0.0000001	0.0000006	0.0000002	0.0000015	0.0000001	0.0000016
S-132	06/09/97	07/09/97	47729	0.0000005	0.0000008	0.0000005	0.0000019	0.0000010	0.0000021
S-132	07/09/97	08/12/97	55422	0.0000005	0.0000007	-0.0000001	0.0000012	0.0000004	0.0000014
S-132	08/12/97	09/11/97	47763	-0.0000002	0.0000005	-0.0000004	0.0000007	-0.0000006	0.0000008
S-132	09/11/97	10/09/97	45568	-0.0000002	0.0000004	0.0000000	0.0000024	-0.0000002	0.0000024
S-132	10/09/97	11/07/97	47097	0.0000004	0.0000008	0.0000002	0.0000018	0.0000006	0.0000020
S-132	11/07/97	12/05/97	42047	-0.0000003	0.0000008	0.0000014	0.0000034	0.0000012	0.0000035
S-132	12/05/97	01/21/98	76599	-0.0000001	0.0000006	0.0000001	0.0000008	0.0000000	0.0000010
S-134	01/07/97	02/05/97	47199	0.0000007	0.0000005	-0.0000002	0.0000003	0.0000004	0.0000006
S-134	02/05/97	03/04/97	43794	0.0000006	0.0000011	0.0000004	0.0000009	0.0000009	0.0000014
S-134	03/04/97	04/08/97	56999	0.0000004	0.0000020	b	b	b	b
S-134	04/08/97	05/08/97	48871	-0.0000007	0.0000007	0.0000005	0.0000018	-0.0000002	0.0000019
S-134	05/08/97	06/10/97	52133	-0.0000002	0.0000004	0.0000011	0.0000013	0.0000009	0.0000013
S-134	06/10/97	07/09/97	47416	-0.0000003	0.0000006	0.0000012	0.0000017	0.0000009	0.0000018
S-134	07/09/97	08/12/97	54437	-0.0000001	0.0000005	-0.0000003	0.0000006	-0.0000005	0.0000008
S-134	08/12/97	09/11/97	49183	0.0000010	0.0000011	0.0000008	0.0000014	0.0000018	0.0000018
S-134	09/11/97	10/09/97	45629	0.0000000	0.0000007	-0.0000005	0.0000010	-0.0000005	0.0000013
S-134	10/09/97	11/07/97	47199	0.0000008	0.0000007	0.0000003	0.0000021	0.0000011	0.0000022
S-134	11/07/97	12/05/97	45867	0.0000019	0.0000013	0.0000005	0.0000025	0.0000024	0.0000028
S-134	12/05/97	01/21/98	76599	-0.0000002	0.0000004	0.0000007	0.0000010	0.0000005	0.0000011
S-136	01/07/97	02/05/97	46927	0.0000002	0.0000005	-0.0000002	0.0000003	0.0000000	0.0000006
S-136	02/05/97	03/04/97	43977	0.0000004	0.0000012	-0.0000003	0.0000007	0.0000001	0.0000014
S-136	03/04/97	04/10/97	60186	0.0000002	0.0000019	0.0000005	0.0000010	0.0000007	0.0000022
S-136	04/10/97	05/08/97	45690	0.0000002	0.0000006	0.0000003	0.0000022	0.0000005	0.0000023
S-136	05/08/97	06/03/97	41259	-0.0000007	0.0000009	-0.0000001	0.0000015	-0.0000008	0.0000018
S-136	06/03/97	07/10/97	59758	-0.0000003	0.0000006	0.0000008	0.0000017	0.0000005	0.0000018
S-136	07/10/97	08/12/97	53179	0.0000001	0.0000005	0.0000004	0.0000010	0.0000005	0.0000011
S-136	08/12/97	09/11/97	48973	0.0000002	0.0000006	-0.0000007	0.0000008	-0.0000005	0.0000010
S-136	09/11/97	10/10/97	47022	0.0000006	0.0000009	0.0000005	0.0000012	0.0000011	0.0000015
S-136	10/10/97	11/07/97	45785	0.0000000	0.0000012	0.0000001	0.0000019	0.0000001	0.0000023
S-136	11/07/97	12/05/97	45921	0.0000022	0.0000013	-0.0000005	0.0000009	0.0000017	0.0000016
S-136	12/05/97	01/21/98	76313	0.0000000	0.0000004	-0.0000001	0.0000008	-0.0000001	0.0000009

**Table 1-13 Americium-241 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-137	01/08/97	02/05/97	45690	0.0000017	0.0000008	0.0000000	0.0000004	0.0000017	0.0000009
S-137	02/05/97	03/04/97	43977	-0.0000002	0.0000006	-0.0000006	0.0000013	-0.0000008	0.0000014
S-137	03/04/97	04/10/97	60193	-0.0000001	0.0000013	0.0000005	0.0000013	0.0000004	0.0000018
S-137	04/10/97	05/08/97	45683	0.0000001	0.0000009	-0.0000009	0.0000016	-0.0000008	0.0000018
S-137	05/08/97	06/03/97	42829	-0.0000004	0.0000008	0.0000007	0.0000012	0.0000003	0.0000014
S-137	06/03/97	07/10/97	59744	0.0000004	0.0000006	0.0000011	0.0000017	0.0000015	0.0000018
S-137	07/10/97	08/12/97	54172	-0.0000004	0.0000013	-0.0000003	0.0000008	-0.0000007	0.0000015
S-137	08/12/97	09/11/97	48959	0.0000001	0.0000006	0.0000000	0.0000011	0.0000001	0.0000012
S-137	09/11/97	10/09/97	45615	0.0000001	0.0000007	-0.0000002	0.0000010	-0.0000001	0.0000012
S-137	10/09/97	11/07/97	47206	-0.0000003	0.0000007	-0.0000006	0.0000016	-0.0000009	0.0000017
S-137	11/07/97	12/05/97	45928	-0.0000002	0.0000008	0.0000001	0.0000020	-0.0000001	0.0000021
S-137	12/05/97	01/21/98	76306	0.0000003	0.0000007	-0.0000005	0.0000007	-0.0000002	0.0000010
S-138	01/08/97	02/05/97	45690	0.0000004	0.0000006	0.0000001	0.0000004	0.0000005	0.0000007
S-138	02/05/97	03/04/97	44188	-0.0000002	0.0000004	0.0000004	0.0000008	0.0000001	0.0000009
S-138	03/04/97	04/10/97	59969	-0.0000001	0.0000016	0.0000004	0.0000005	0.0000003	0.0000017
S-138	04/10/97	05/06/97	42652	0.0000000	0.0000008	0.0000007	0.0000018	0.0000007	0.0000020
S-138	05/06/97	06/04/97	47287	-0.0000003	0.0000006	0.0000013	0.0000018	0.0000010	0.0000019
S-138	06/04/97	07/08/97	55252	0.0000002	0.0000006	0.0000002	0.0000016	0.0000004	0.0000017
S-138	07/08/97	08/12/97	56625	0.0000004	0.0000006	-0.0000002	0.0000007	0.0000002	0.0000009
S-138	08/12/97	09/10/97	47681	0.0000003	0.0000006	0.0000018	0.0000020	0.0000022	0.0000021
S-138	09/10/97	10/09/97	46954	-0.0000003	0.0000009	0.0000015	0.0000019	0.0000012	0.0000021
S-138	10/09/97	11/06/97	46030	-0.0000001	0.0000006	0.0000008	0.0000021	0.0000007	0.0000022
S-138	11/06/97	12/05/97	45289	0.0000017	0.0000011	-0.0000017	0.0000011	0.0000000	0.0000016
S-138	12/05/97	01/21/98	76368	0.0000006	0.0000007	0.0000002	0.0000009	0.0000007	0.0000011
S-140	01/08/97	02/05/97	45690	-0.0000002	0.0000002	-0.0000001	0.0000003	-0.0000003	0.0000004
S-140	02/05/97	03/05/97	45880	0.0000003	0.0000006	-0.0000003	0.0000006	0.0000000	0.0000008
S-140	03/05/97	04/10/97	58385	b	b	-0.0000001	0.0000004	b	b
S-140	04/10/97	05/06/97	42734	-0.0000007	0.0000007	0.0000008	0.0000013	0.0000001	0.0000015
S-140	05/06/97	06/04/97	47240	-0.0000003	0.0000007	-0.0000001	0.0000014	-0.0000004	0.0000016
S-140	06/04/97	07/08/97	55544	0.0000001	0.0000005	0.0000021	0.0000022	0.0000022	0.0000023
S-140	07/08/97	08/12/97	56659	0.0000000	0.0000006	-0.0000001	0.0000011	-0.0000001	0.0000012
S-140	08/12/97	09/10/97	47681	0.0000001	0.0000006	-0.0000002	0.0000011	-0.0000001	0.0000012
S-140	09/10/97	10/09/97	46961	-0.0000005	0.0000010	0.0000000	0.0000007	-0.0000005	0.0000012
S-140	10/09/97	11/06/97	46037	-0.0000001	0.0000006	0.0000003	0.0000015	0.0000002	0.0000016
S-140	11/06/97	12/05/97	47246	0.0000016	0.0000011	-0.0000004	0.0000022	0.0000012	0.0000025
S-140	12/05/97	01/21/98	76605	0.0000005	0.0000006	0.0000006	0.0000011	0.0000011	0.0000013
S-141	01/08/97	02/05/97	45690	0.0000002	0.0000004	0.0000000	0.0000004	0.0000002	0.0000006
S-141	02/05/97	03/05/97	45887	-0.0000002	0.0000004	-0.0000001	0.0000007	-0.0000003	0.0000008
S-141	03/05/97	04/10/97	58385	b	b	-0.0000003	0.0000005	b	b
S-141	04/10/97	05/06/97	42734	-0.0000014	0.0000010	0.0000003	0.0000010	-0.0000010	0.0000014
S-141	05/06/97	06/04/97	47233	-0.0000005	0.0000007	0.0000002	0.0000011	-0.0000003	0.0000013
S-141	06/04/97	07/08/97	55538	-0.0000004	0.0000004	0.0000004	0.0000019	0.0000001	0.0000020
S-141	07/08/97	08/12/97	56632	0.0000000	0.0000006	0.0000000	0.0000009	0.0000001	0.0000011
S-141	08/12/97	09/10/97	47681	0.0000004	0.0000005	-0.0000007	0.0000011	-0.0000004	0.0000012
S-141	09/10/97	10/09/97	46961	-0.0000001	0.0000008	-0.0000006	0.0000009	-0.0000007	0.0000012
S-141	10/09/97	11/06/97	46037	-0.0000002	0.0000011	0.0000011	0.0000022	0.0000009	0.0000024
S-141	11/06/97	12/05/97	47246	0.0000002	0.0000009	0.0000001	0.0000019	0.0000003	0.0000021
S-141	12/05/97	01/21/98	76605	0.0000001	0.0000005	0.0000007	0.0000011	0.0000008	0.0000012

**Table 1-13 Americium-241 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-142	01/08/97	02/05/97	45697	0.0000000	0.0000004	0.0000004	0.0000005	0.0000004	0.0000006
S-142	02/05/97	03/05/97	45880	0.0000007	0.0000009	-0.0000006	0.0000004	0.0000001	0.0000010
S-142	03/05/97	04/10/97	58392	b	b	-0.0000008	0.0000008	b	b
S-142	04/10/97	05/06/97	42734	0.0000001	0.0000007	-0.0000001	0.0000004	0.0000000	0.0000008
S-142	05/06/97	06/04/97	47233	-0.0000002	0.0000007	-0.0000001	0.0000021	-0.0000004	0.0000022
S-142	06/04/97	07/08/97	55538	-0.0000001	0.0000004	-0.0000001	0.0000010	-0.0000003	0.0000011
S-142	07/08/97	08/12/97	56666	0.0000002	0.0000006	0.0000005	0.0000015	0.0000007	0.0000017
S-142	08/12/97	09/10/97	47681	0.0000006	0.0000008	0.0000010	0.0000012	0.0000016	0.0000014
S-142	09/10/97	10/09/97	46968	-0.0000001	0.0000006	0.0000000	0.0000008	0.0000000	0.0000010
S-142	10/09/97	11/06/97	46030	-0.0000002	0.0000005	-0.0000001	0.0000021	-0.0000002	0.0000022
S-142	11/06/97	12/05/97	47253	0.0000000	0.0000006	0.0000001	0.0000020	0.0000001	0.0000021
S-142	12/05/97	01/21/98	76592	0.0000004	0.0000005	0.0000001	0.0000009	0.0000004	0.0000010
S-201	01/07/97	02/05/97	46907	0.0000035	0.0000013	0.0000000	0.0000005	0.0000036	0.0000014
S-201	02/05/97	03/04/97	43345	-0.0000003	0.0000010	-0.0000003	0.0000005	-0.0000006	0.0000011
S-201	03/04/97	04/08/97	57019	b	b	-0.0000003	0.0000004	b	b
S-201	04/08/97	05/08/97	48857	0.0000000	0.0000007	-0.0000001	0.0000023	-0.0000001	0.0000024
S-201	05/08/97	06/10/97	51650	-0.0000004	0.0000004	-0.0000001	0.0000013	-0.0000005	0.0000014
S-201	06/10/97	07/09/97	45636	c	c	c	c	c	c
S-201	07/09/97	08/12/97	54810	0.0000001	0.0000005	0.0000005	0.0000012	0.0000006	0.0000013
S-201	08/12/97	09/11/97	48572	-0.0000004	0.0000005	0.0000005	0.0000013	0.0000001	0.0000014
S-201	09/11/97	10/09/97	44562	0.0000000	0.0000010	-0.0000002	0.0000011	-0.0000002	0.0000015
S-201	10/09/97	11/07/97	47036	-0.0000004	0.0000012	0.0000009	0.0000022	0.0000005	0.0000026
S-201	11/07/97	12/05/97	45908	0.0000009	0.0000011	-0.0000003	0.0000015	0.0000006	0.0000019
S-201	12/05/97	01/21/98	76449	0.0000003	0.0000009	-0.0000006	0.0000003	-0.0000003	0.0000010
S-207	01/08/97	02/05/97	45697	0.0000001	0.0000004	-0.0000003	0.0000004	-0.0000002	0.0000005
S-207	02/05/97	03/04/97	43916	0.0000000	0.0000006	-0.0000005	0.0000005	-0.0000006	0.0000007
S-207	03/04/97	04/10/97	59975	b	b	0.0000000	0.0000006	b	b
S-207	04/10/97	05/06/97	42679	-0.0000006	0.0000007	c	c	c	c
S-207	05/06/97	06/04/97	47287	0.0000004	0.0000007	-0.0000001	0.0000013	0.0000002	0.0000015
S-207	06/04/97	07/08/97	55538	-0.0000004	0.0000009	0.0000002	0.0000006	-0.0000002	0.0000011
S-207	07/08/97	08/12/97	56666	-0.0000002	0.0000004	0.0000013	0.0000022	0.0000011	0.0000023
S-207	08/12/97	09/10/97	47654	-0.0000005	0.0000009	0.0000022	0.0000030	0.0000017	0.0000031
S-207	09/10/97	10/09/97	46961	-0.0000010	0.0000012	-0.0000001	0.0000019	-0.0000011	0.0000022
S-207	10/09/97	11/06/97	46037	-0.0000006	0.0000006	-0.0000004	0.0000018	-0.0000010	0.0000019
S-207	11/06/97	12/05/97	47036	0.0000000	0.0000006	-0.0000005	0.0000015	-0.0000005	0.0000016
S-207	12/05/97	01/21/98	76585	-0.0000001	0.0000005	-0.0000003	0.0000008	-0.0000003	0.0000009
S-209	01/08/97	02/05/97	45690	0.0000001	0.0000005	0.0000001	0.0000005	0.0000002	0.0000007
S-209	02/05/97	03/05/97	45887	0.0000012	0.0000008	0.0000001	0.0000008	0.0000013	0.0000012
S-209	03/05/97	04/10/97	58392	b	b	-0.0000005	0.0000007	b	b
S-209	04/10/97	05/06/97	42734	-0.0000001	0.0000006	0.0000009	0.0000013	0.0000009	0.0000014
S-209	05/06/97	06/04/97	47233	-0.0000002	0.0000007	0.0000009	0.0000016	0.0000007	0.0000017
S-209	06/04/97	07/08/97	55538	-0.0000002	0.0000007	0.0000007	0.0000014	0.0000005	0.0000016
S-209	07/08/97	08/12/97	56618	0.0000003	0.0000015	0.0000000	0.0000013	0.0000003	0.0000020
S-209	08/12/97	09/10/97	47681	-0.0000003	0.0000010	0.0000004	0.0000010	0.0000001	0.0000014
S-209	09/10/97	10/09/97	46968	0.0000003	0.0000008	0.0000017	0.0000020	0.0000020	0.0000022
S-209	10/09/97	11/06/97	46030	0.0000002	0.0000006	-0.0000015	0.0000014	-0.0000014	0.0000016
S-209	11/06/97	12/05/97	47253	-0.0000007	0.0000013	-0.0000009	0.0000011	-0.0000015	0.0000017
S-209	12/05/97	01/21/98	76599	0.0000005	0.0000005	-0.0000006	0.0000007	-0.0000002	0.0000009

**Table 1-13 Americium-241 Concentrations in Ambient Air for Perimeter Samplers<sup>a</sup>**  
**(continued)**

Location	On Date	Off Date	Flow (m <sup>3</sup> )	Fine Conc (pCi/m <sup>3</sup> )	Fine Error (pCi/m <sup>3</sup> )	Coarse Conc (pCi/m <sup>3</sup> )	Coarse Error (pCi/m <sup>3</sup> )	Total Conc (pCi/m <sup>3</sup> )	Total Error (pCi/m <sup>3</sup> )
S-038	01/08/97	02/05/97	32574	N/A	N/A	N/A	N/A	0.0000010	0.0000007
S-038	02/05/97	03/04/97	33640	N/A	N/A	N/A	N/A	0.0000004	0.0000008
S-038	03/04/97	04/10/97	45863	N/A	N/A	N/A	N/A	b	b
S-038	04/10/97	05/06/97	31315	N/A	N/A	N/A	N/A	-0.0000002	0.0000016
S-038	05/06/97	06/04/97	35116	N/A	N/A	N/A	N/A	-0.0000001	0.0000014
S-038	06/04/97	07/08/97	39910	N/A	N/A	N/A	N/A	0.0000025	0.0000018
S-038	07/08/97	08/12/97	40958	N/A	N/A	N/A	N/A	d	d
S-038	08/12/97	09/10/97	35560	N/A	N/A	N/A	N/A	-0.0000004	0.0000017
S-038	09/10/97	10/09/97	34515	N/A	N/A	N/A	N/A	0.0000004	0.0000017
S-038	10/09/97	11/06/97	34533	N/A	N/A	N/A	N/A	0.0000022	0.0000030
S-038	11/06/97	12/05/97	36765	N/A	N/A	N/A	N/A	-0.0000006	0.0000013
S-038	12/05/97	01/21/98	58883	N/A	N/A	N/A	N/A	-0.0000001	0.0000009

a These data have not been corrected for temperature.

b Laboratory analysis failed; there is no data available.

c Sample was lost; no results are available.

d Sample for the first half of the month was lost; no analysis was performed.

N/A = Not Applicable



## Section 2: Meteorology and Climatology

*Table 2-1 Climatic Summary for January 1998*

Date	Temperature (°F)			Dew-Point (°F)	Rel. Hum. (%)	Wind Speed (mph)		Press (mb)	Solar (kW-h/m²)	Water-Equiv Precip (in.)
	High	Low	Mean	Mean	Mean	Mean	Peak Gust (1 sec)	Mean	Total	Peak Total (15 min)
01/01	a	a	a	a	a	a	a	a	a	a
01/02	a	a	a	a	a	a	a	a	a	a
01/03	a	a	a	a	a	a	a	a	a	a
01/04	a	a	a	a	a	a	a	a	a	a
01/05	a	a	a	a	a	a	a	a	a	a
01/06	a	a	a	a	a	a	a	a	a	a
01/07	a	a	a	a	a	a	a	a	a	a
01/08	a	a	a	a	a	a	a	a	a	a
01/09	a	a	a	a	a	a	a	a	a	a
01/10	a	a	a	a	a	a	a	a	a	a
01/11	a	a	a	a	a	a	a	a	a	a
01/12	a	a	a	a	a	a	a	a	a	a
01/13	a	a	a	a	a	a	a	a	a	a
01/14	a	a	a	a	a	a	a	a	a	a
01/15	a	a	a	a	a	a	a	a	a	a
01/16	a	a	a	a	a	a	a	a	a	a
01/17	a	a	a	a	a	a	a	a	a	a
01/18	a	a	a	a	a	a	a	a	a	a
01/19	a	a	a	a	a	a	a	a	a	a
01/20	a	a	a	a	a	a	a	a	a	a
01/21	a	a	a	a	a	a	a	a	a	a
01/22	a	a	a	a	a	a	a	a	a	a
01/23	a	a	a	a	a	a	a	a	a	a
01/24	a	a	a	a	a	a	a	a	a	a
01/25	a	a	a	a	a	a	a	a	a	a
01/26	a	a	a	a	a	a	a	a	a	a
01/27	a	a	a	a	a	a	a	a	a	a
01/28	a	a	a	a	a	a	a	a	a	a
01/29	a	a	a	a	a	a	a	a	a	a
01/30	a	a	a	a	a	a	a	a	a	a
01/31	a	a	a	a	a	a	a	a	a	a

Temperature (°F)			Humidity		Wind Speed		Press	Solar	Precipitation	
Mean High	Mean Low	Mean	Dew Point	Rel. Hum.	Mean (mph)	Monthly Max	Monthly Avg	Monthly Total	Total	Monthly Max
a	a	a	a	a	a	a	a	a	a	a

a Data not available as a result of data processing problems.

**Displays not available at time of publication.**

*Figure 2-1 Windrose for the Rocky Flats Environmental Technology Site (January 1998)*

**Displays not available at time of publication.**

***Figure 2-2 Day Windrose for the Rocky Flats Environmental Technology Site  
(January 1998)***

**Displays not available at time of publication.**

***Figure 2-3 Night Windrose for the Rocky Flats Environmental Technology Site  
(January 1998)***

Table 2-2 Climatic Summary for February 1998

Date	Temperature (°F)			Dew-Point (°F)	Rel. Hum. (%)	Wind Speed (mph)		Press (mb)	Solar (kW·h/m²)	Water-Equiv Precip (in.)	Peak Total (15 min)
	High	Low	Mean	Mean	Mean	Mean	Peak Gust (1 sec)	Mean	Total		
02/01	a	a	a	a	a	a	a	a	a	a	a
02/02	a	a	a	a	a	a	a	a	a	a	a
02/03	a	a	a	a	a	a	a	a	a	a	a
02/04	a	a	a	a	a	a	a	a	a	a	a
02/05	a	a	a	a	a	a	a	a	a	a	a
02/06	a	a	a	a	a	a	a	a	a	a	a
02/07	a	a	a	a	a	a	a	a	a	a	a
02/08	a	a	a	a	a	a	a	a	a	a	a
02/09	a	a	a	a	a	a	a	a	a	a	a
02/10	a	a	a	a	a	a	a	a	a	a	a
02/11	a	a	a	a	a	a	a	a	a	a	a
02/12	a	a	a	a	a	a	a	a	a	a	a
02/13	a	a	a	a	a	a	a	a	a	a	a
02/14	a	a	a	a	a	a	a	a	a	a	a
02/15	a	a	a	a	a	a	a	a	a	a	a
02/16	a	a	a	a	a	a	a	a	a	a	a
02/17	a	a	a	a	a	a	a	a	a	a	a
02/18	a	a	a	a	a	a	a	a	a	a	a
02/19	a	a	a	a	a	a	a	a	a	a	a
02/20	a	a	a	a	a	a	a	a	a	a	a
02/21	a	a	a	a	a	a	a	a	a	a	a
02/22	a	a	a	a	a	a	a	a	a	a	a
02/23	a	a	a	a	a	a	a	a	a	a	a
02/24	a	a	a	a	a	a	a	a	a	a	a
02/25	a	a	a	a	a	a	a	a	a	a	a
02/26	a	a	a	a	a	a	a	a	a	a	a
02/27	a	a	a	a	a	a	a	a	a	a	a
02/28	a	a	a	a	a	a	a	a	a	a	a

Temperature (°F)			Humidity		Wind Speed		Press	Solar	Precipitation	
Mean High	Mean Low	Mean	Dew Point	Rel. Hum.	Mean (mph)	Monthly Max	Monthly Avg	Monthly Total	Total	Monthly Max
a	a	a	a	a	a	a	a	a	a	a

a Data not available as a result of data processing problems.

**Displays not available at time of publication.**

*Figure 2-4 Windrose for the Rocky Flats Environmental Technology Site (February 1998)*

**Displays not available at time of publication.**

*Figure 2-5 Day Windrose for the Rocky Flats Environmental Technology Site  
(February 1998)*

**Displays not available at time of publication.**

***Figure 2-6 Night Windrose for the Rocky Flats Environmental Technology Site  
(February 1998)***

Table 2-3 Climatic Summary for March 1998

Date	Temperature (°F)			Dew-Point (°F)	Rel. Hum. (%)	Wind Speed (mph)		Press (mb)	Solar (kW·h/m²)	Water-Equiv Precip (in.)
	High	Low	Mean	Mean	Mean	Mean	Peak Gust (1 sec)	Mean	Total	Peak Total (15 min)
03/01	a	a	a	a	a	a	a	a	a	a
03/02	a	a	a	a	a	a	a	a	a	a
03/03	a	a	a	a	a	a	a	a	a	a
03/04	a	a	a	a	a	a	a	a	a	a
03/05	a	a	a	a	a	a	a	a	a	a
03/06	a	a	a	a	a	a	a	a	a	a
03/07	a	a	a	a	a	a	a	a	a	a
03/08	a	a	a	a	a	a	a	a	a	a
03/09	a	a	a	a	a	a	a	a	a	a
03/10	a	a	a	a	a	a	a	a	a	a
03/11	a	a	a	a	a	a	a	a	a	a
03/12	a	a	a	a	a	a	a	a	a	a
03/13	a	a	a	a	a	a	a	a	a	a
03/14	a	a	a	a	a	a	a	a	a	a
03/15	a	a	a	a	a	a	a	a	a	a
03/16	a	a	a	a	a	a	a	a	a	a
03/17	a	a	a	a	a	a	a	a	a	a
03/18	a	a	a	a	a	a	a	a	a	a
03/19	a	a	a	a	a	a	a	a	a	a
03/20	a	a	a	a	a	a	a	a	a	a
03/21	a	a	a	a	a	a	a	a	a	a
03/22	a	a	a	a	a	a	a	a	a	a
03/23	a	a	a	a	a	a	a	a	a	a
03/24	a	a	a	a	a	a	a	a	a	a
03/25	a	a	a	a	a	a	a	a	a	a
03/26	a	a	a	a	a	a	a	a	a	a
03/27	a	a	a	a	a	a	a	a	a	a
03/28	a	a	a	a	a	a	a	a	a	a
03/29	a	a	a	a	a	a	a	a	a	a
03/30	a	a	a	a	a	a	a	a	a	a
03/31	a	a	a	a	a	a	a	a	a	a

Temperature (°F)			Humidity		Wind Speed		Press	Solar	Precipitation	
Mean High	Mean Low	Mean	Dew Point	Rel. Hum.	Mean (mph)	Monthly Max	Monthly Avg	Monthly Total	Total	Monthly Max
a	a	a	a	a	a	a	a	a	a	a

a Data not available as a result of data processing problems.

**Displays not available at time of publication.**

***Figure 2-7 Windrose for the Rocky Flats Environmental Technology Site (March 1998)***

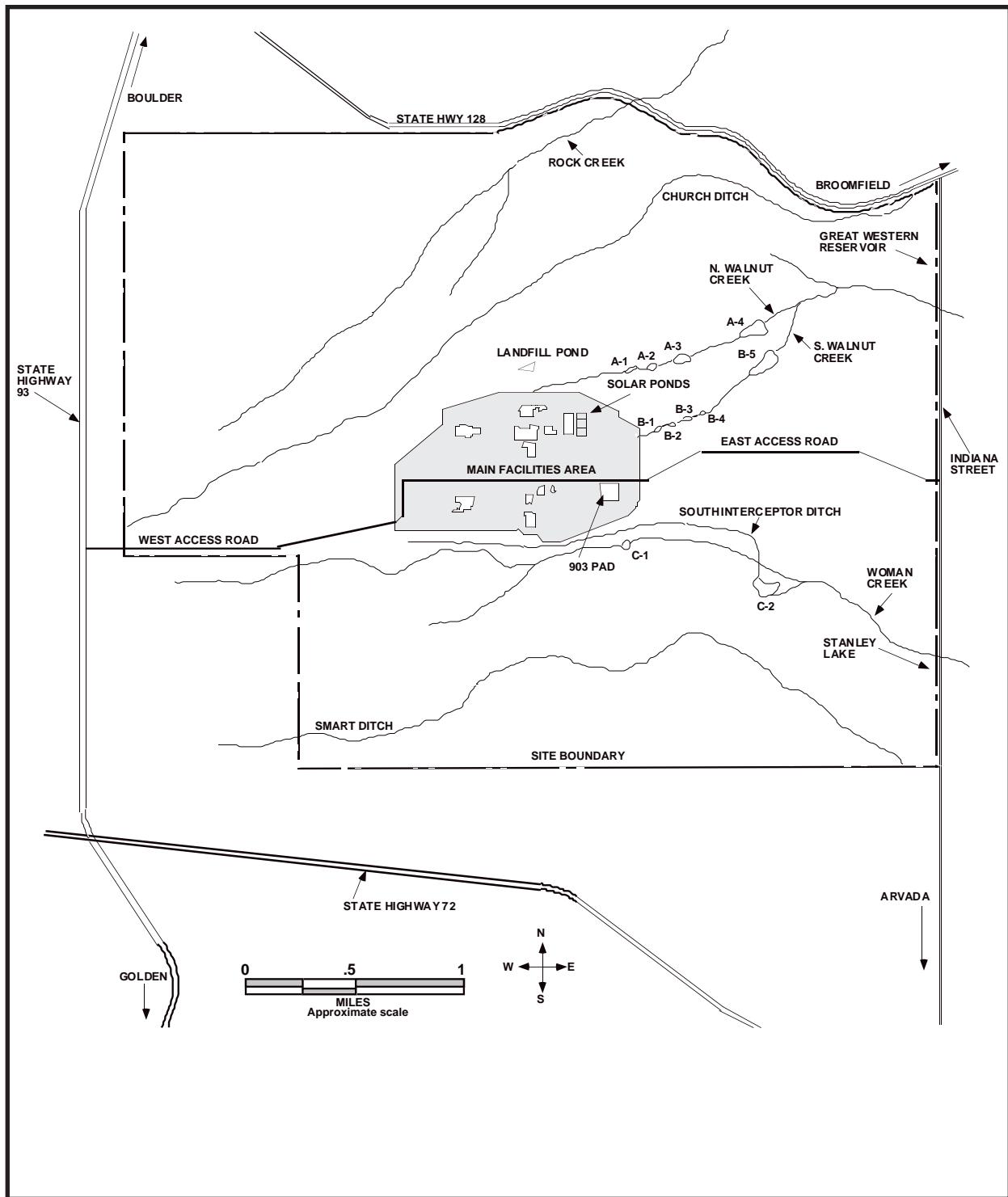
**Displays not available at time of publication.**

***Figure 2-8 Day Windrose for the Rocky Flats Environmental Technology Site  
(March 1998)***

**Displays not available at time of publication.**

***Figure 2-9 Night Windrose for the Rocky Flats Environmental Technology Site  
(March 1998)***

## Section 3: Surface Water Data



**Figure 3-1 Holding Ponds and Liquid Effluent Water Courses**

**Table 3-1 Pond B-3 (Outfall 001A)**

Dates of Transfer to Pond A-3: 1/2/98, 1/5/98 - 1/9/98, 1/12/98 - 1/16/98, 1/19/98 - 1/23/98, 1/26/98 - 1/30/98, 2/2/98 - 2/3/98, 2/11/98 - 2/13/98, 2/16/98, 2/18/98 - 2/20/98, 2/23/98 - 2/27/98, and 3/2/98 - 3/6/98.						
Parameter & Units	Dates of Discharge: 3/9/98 - 3/31/98					
	Measured 30-Day Average	Limit 30-Day Average	Measured 7-Day Average	Limit 7-Day Average	Measured Daily Maximum	Limit Daily Maximum
NO <sub>3</sub> /NO <sub>2</sub> mg/l	1.6 - 3.4	10	2.2 - 6.8	20	N/A	N/A
TRC mg/l	N/A	N/A	N/A	N/A	0.04 - 0.06	0.5
BOD <sub>5</sub> mg/l	9.0 - 14.5	a	N/A	N/A	13.0 - 28.0	a
CBOD <sub>5</sub> mg/l	<2.3 - 8.8	a	N/A	N/A	4.0 - 29.0	a
TSS mg/l	<9	a	N/A	N/A	11.0 - 16.0	a

a Report only.

N/A = Not Applicable  
 TRC = Total Residual Chlorine  
 TSS = Total Suspended Solids  
 BOD<sub>5</sub> = Biochemical Oxygen Demand, 5-Day Test  
 CBOD<sub>5</sub> = Carbonaceous Biochemical Oxygen Demand, 5-Day Test

Note: Results are the range of values measured during the reporting period.

**Table 3-2 Sewage Treatment Plant (Outfall STPA)**

Parameter and Units	Dates of Discharge: 1/1/98 - 3/31/98									
	Measured 30-Day Avg	Limit 30-Day Avg	Measured 7-Day Avg	Limit 7-Day Avg	Measured Daily Min	Limit Daily Min	Measured Daily Max	Limit Daily Max	Observed Sheen	Measured Result
pH, SU	N/A	N/A	N/A	N/A	6.8	6.0	7.2 - 7.5	9.0	N/A	N/A
TSS, mg/l	<5	30	<6	45	N/A	N/A	N/A	N/A	N/A	N/A
Total Phosphorous, mg/l	0.91 - 1.6	8	N/A	N/A	N/A	N/A	2.3 - 5.7	12	N/A	N/A
TRC, mg/l	<0.02	a	<0.03	a	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium, µg/l	<0.80	50	N/A	N/A	N/A	N/A	<0.80 - 1.2	100	N/A	N/A
Fecal Coliform #/100 ml	<8	200b	3 - 28	440b	N/A	N/A	N/A	N/A	N/A	N/A
CBOD <sub>5</sub> mg/l	<3.0	10	N/A	N/A	N/A	N/A	3.0 - 9.0	25	N/A	N/A
Oil & Grease	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	c	N/A
<b>WET</b>										
Ceriodaphnia	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fathead Minnows	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	>100	>100
Samples Collected: 1/6/98, 1/27/98, 2/3/98, and 3/3/98										
Antimony, µg/l	<0.70	a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic, µg/l	<0.45 - 1.8	a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beryllium, µg/l	<0.10	a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cadmium, µg/l	0.06 - 0.22	a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Copper, µg/l	<0.35 - 2.9	a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Iron, µg/l	27.7 - 110	a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lead, µg/l	<0.38	a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manganese, µg/l	3.1 - 23.8	a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mercury, µg/l	<0.25	a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nickel, µg/l	1.3 - 2.2	a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silver, µg/l	<0.48	a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Zinc, µg/l	3.4 - 37.0	a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VOCs, µg/l	d	a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
a	Report Only		c	No Sheen Observed						
b	Geometric		d	None detected above PQL						
N/A	= Not Applicable									
SU	= Standard Units									
TSS	= Total Suspended Solids									
TRC	= Total Residual Chlorine									
CBOD <sub>5</sub>	= Carbonaceous Biochemical Oxygen Demand, 5-Day Test									
PQL	= Practical quantitation limit is equal to 10 times the method detection limit and represents the quantity at which 70% of laboratories can be reported in the 95% upper confidence limit.									
WET	= (Whole Effluent Toxicity) Results for WET are given in percentage of effluent sample that will cause mortality to half the test result organisms within the time frame of the test. For example, >100% indicates that 100% pure effluent did not cause acute toxicity to at least half of the organisms. A lower percentage LC <sub>50</sub> (lethal concentration to 50% of test organisms) indicates a greater toxic effect because less of the sample is required to observe a sufficiently extensive adverse effect.									
Note: Results are the range of values measured during the reporting period.										

**Table 3-3 Ponds – Interior and Terminal**

Location, Parameter, and Units	Measured 30-Day Avg	Limit 30-Day Avg	Measured 7-Day Avg	Limit 7-Day Avg	Measured Daily Min	Limit Daily Min	Measured Daily Max	Limit Daily Max	Measured Result
<b>Discharged: 1/1/98 - 1/5/98, 1/14/98 - 1/16/98, 2/23/98 - 3/2/98, 3/11/98 - 3/13/98, 3/27/98 - 3/31/98</b>									
Pond A-3 (Outfall 002) pH, SU	N/A	N/A	N/A	N/A	6.0	7.4 - 8.3	9.0	8.8 - 9.0	N/A
NO <sub>3</sub> /NO <sub>2</sub> , mg/l	1.5 - 3.1	10	N/A	N/A	N/A	N/A	1.9 - 3.9	20	N/A
<b>Discharged: 2/12/98 - 2/23/98</b>									
Pond A-4 (Outfall 005A) Total Chromium, µg/l	N/A	N/A	N/A	N/A	N/A	N/A	<8.0	50	N/A
<b>WET</b>									
Ceriodaphnia	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	>100
Fathead Minnows	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	>100
<b>Discharged: 1/19/98</b>									
Pond B-5 (Outfall 006A) Total Chromium, µg/l	N/A	N/A	N/A	N/A	N/A	N/A	11.0	50	N/A
<b>WET</b>									
Ceriodaphnia	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	>100
Fathead Minnows	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	>100
NO <sub>3</sub> /NO <sub>2</sub> , mg/l*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRC, mg/l*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Discharged: No Discharge</b>									
Pond C-2 (Outfall 007A) Total Chromium, µg/l	N/A	N/A	N/A	N/A	N/A	N/A		50	N/A
<b>WET</b>									
Ceriodaphnia	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fathead Minnows	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*Sample and analysis required only if Pond B-3 is bypassed.									
N/A = Not Applicable									
SU = Standard Units									
TRC = Total Residual Chlorine									
WET = (Whole Effluent Toxicity) Results for WET are given in percentage of effluent sample that will cause mortality to half the test result organisms within the time frame of the test. For example, >100% indicates that 100% pure effluent did not cause acute toxicity to at least half of the organisms. A lower percentage LC <sub>50</sub> (lethal concentration to 50% of test organisms) indicates a greater toxic effect because less of the sample is required to observe a sufficiently extensive adverse effect.									
Note: Results are the range of values measured during the reporting period.									

**Table 3-4 Daily Transfer Flow Data Recorded for Pond B-5 to Pond A-4**

Date	Pond B-5 to A-4 (gal)	Date	Pond B-5 to A-4 (gal)	Date	Pond B-5 to A-4 (gal)
1/01/98	No transfer	2/01/98	No transfer	3/01/98	No transfer
1/02/98	299,000	2/02/98	No transfer	3/02/98	No transfer
1/03/98	No transfer	2/03/98	No transfer	3/03/98	No transfer
1/04/98	No transfer	2/04/98	No transfer	3/04/98	No transfer
1/05/98	529,000	2/05/98	No transfer	3/05/98	No transfer
1/06/98	42,000	2/06/98	No transfer	3/06/98	No transfer
1/07/98	387,000	2/07/98	No transfer	3/07/98	No transfer
1/08/98	213,000	2/08/98	No transfer	3/08/98	No transfer
1/09/98	228,000	2/09/98	No transfer	3/09/98	No transfer
1/10/98	No transfer	2/10/98	270,000	3/10/98	No transfer
1/11/98	No transfer	2/11/98	390,000	3/11/98	No transfer
1/12/98	283,000	2/12/98	270,000	3/12/98	No transfer
1/13/98	466,000	2/13/98	225,000	3/13/98	No transfer
1/14/98	No transfer	2/14/98	240,000	3/14/98	No transfer
1/15/98	189,000	2/15/98	No transfer	3/15/98	No transfer
1/16/98	408,000	2/16/98	90,000	3/16/98	No transfer
1/17/98	No transfer	2/17/98	No transfer	3/17/98	No transfer
1/18/98	No transfer	2/18/98	No transfer	3/18/98	No transfer
1/19/98	506,000	2/19/98	165,000	3/19/98	No transfer
1/20/98	319,000	2/20/98	105,000	3/20/98	No transfer
1/21/98	172,000	2/21/98	No transfer	3/21/98	No transfer
1/22/98	286,000	2/22/98	No transfer	3/22/98	No transfer
1/23/98	251,000	2/23/98	111,000	3/23/98	No transfer
1/24/98	No transfer	2/24/98	45,000	3/24/98	No transfer
1/25/98	No transfer	2/25/98	45,000	3/25/98	No transfer
1/26/98	413,000	2/26/98	30,000	3/26/98	No transfer
1/27/98	308,000	2/27/98	45,000	3/27/98	No transfer
1/28/98	162,000	2/28/98	No transfer	3/28/98	No transfer
1/29/98	237,000			3/29/98	No transfer
1/30/98	268,000			3/30/98	No transfer
1/31/98	No transfer			3/31/98	No transfer
Total	5,966,000	Total	2,031,000	Total	No transfer



## Section 4: Hydrologic - Rocky Flats Clean-up Agreement

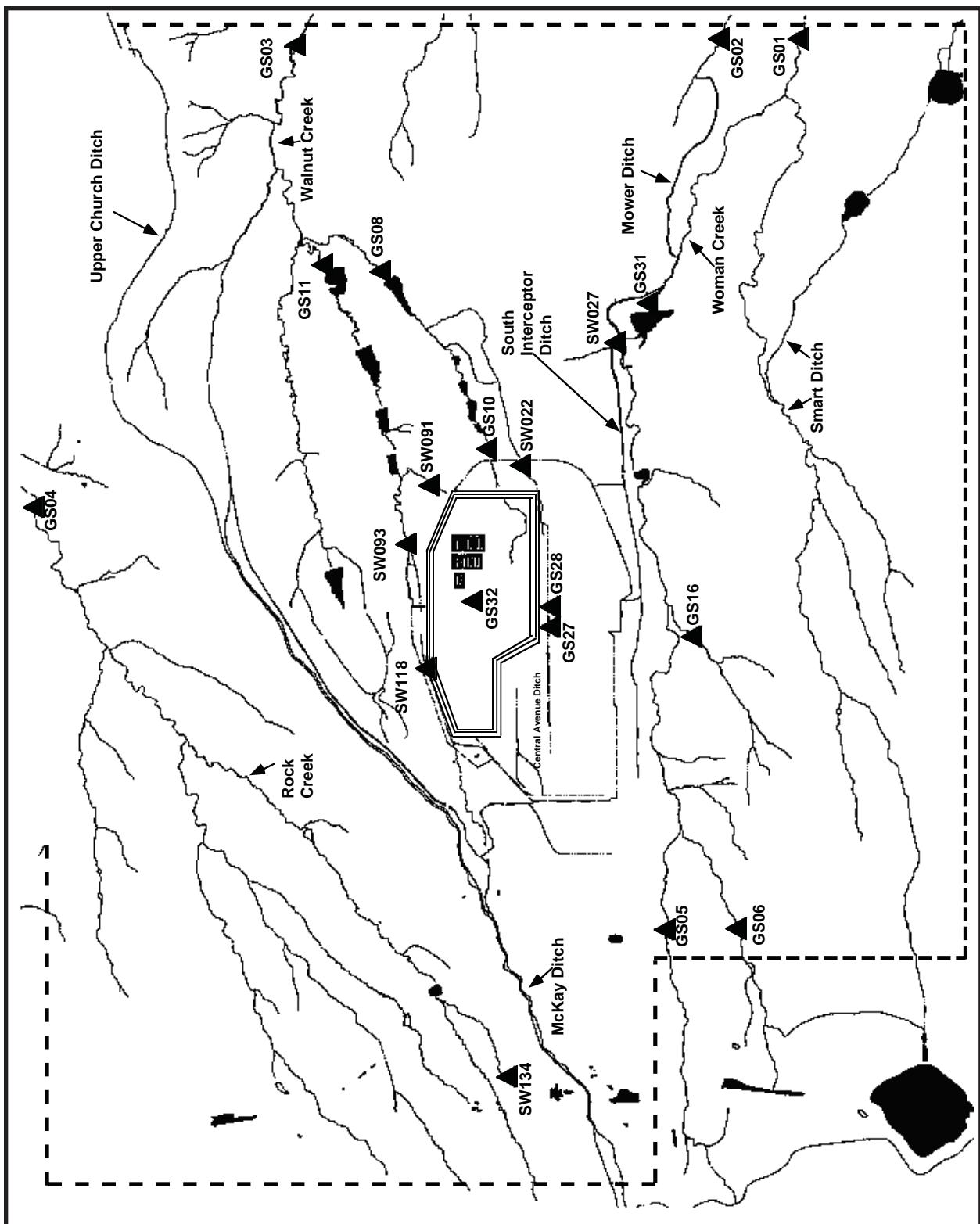


Figure 4-0 Gaging Station Locations

Key: Δ Gaging Station Location

## Section 4.1 Flow Monitoring

**Table 4-1 Gaging Station GS01: Mean Daily Discharge (Cubic Feet per Second)**

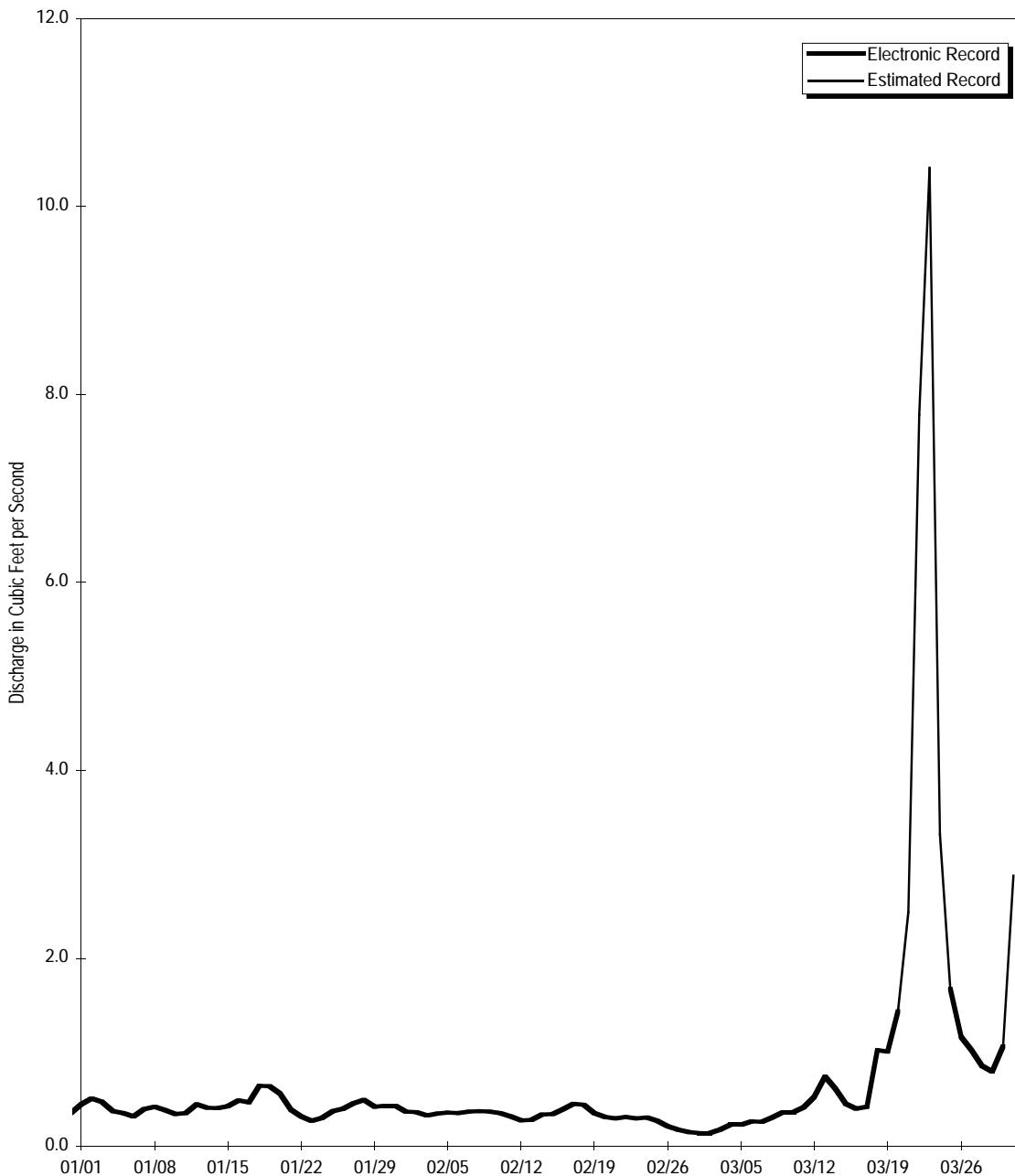
Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.000	1.104	0.509	0.449	0.370	0.142
2	0.000	0.708	0.519	0.509	0.362	0.141
3	0.000	0.551	0.530	0.473	0.329	0.175
4	0.000	0.428	0.485	0.372	0.348	0.231
5	0.000	0.346	0.433	0.354	0.360	0.231
6	0.000	0.318	0.396	0.319	0.354	0.267
7	0.000	0.307	0.423	0.392	0.368	0.259
8	0.000	0.286	1.647	0.423	0.374	0.307
9	0.000	0.382	2.946	0.384	0.370	0.361
10	0.000	0.519	3.036	0.342	0.355	0.363
11	0.000	0.579	2.928	0.353	0.314	0.413
12	0.000	0.582	2.819	0.444	0.277	0.525
13	0.000	0.727	2.807	0.409	0.280	0.745
14	0.000	0.812	2.992	0.407	0.335	0.612
15	0.000	0.763	2.132	0.428	0.345	0.453
16	0.000	0.595	0.658	0.489	0.395	0.398
17	0.000	0.605	0.550	0.467	0.450	0.418
18	0.000	0.673	0.593	0.644	0.443	1.022
19	0.000	0.725	0.505	0.639	0.355	1.009
20	0.003	0.923	0.438	0.559	0.311	1.439
21	0.395	0.805	0.377	0.389	0.295	2.493
22	0.543	0.559	0.369	0.315	0.312	7.785
23	0.538	0.470	0.358	0.267	0.297	10.413
24	0.734	0.454	0.299	0.300	0.304	3.319
25	0.700	0.544	0.286	0.374	0.268	1.676
26	0.485	0.503	0.313	0.399	0.214	1.165
27	0.808	0.464	0.333	0.455	0.176	1.020
28	1.765	0.684	0.277	0.493	0.153	0.857
29	2.404	0.769	0.253	0.422	NA	0.793
30	4.466	0.559	0.364	0.431	NA	1.065
31	2.007	NA	0.355	0.429	NA	2.878
Mo. Avg. (cfs)	0.479	0.592	0.998	0.424	0.326	1.386

### Monthly Discharge

Cubic Feet	1,282,754	1,533,245	2,672,513	1,134,396	787,458	3,713,067
Gallons	9,595,671	11,469,468	19,991,788	8,485,873	5,890,593	27,775,672
Acre Feet	29.44	35.19	61.34	26.04	18.07	85.23

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS01 is located at 39° 52' 40"N, 105° 09' 55"W, at Woman Creek and Indiana Street (See Section 4 Map). This station is a RFCA Point of Compliance, a Buffer Zone Monitoring Location and a monitoring point for water leaving the Site and flowing to Woman Creek Reservoir. This station collects samples for selected radionuclides using continuous flow-paced sampling and storm event sampling for selected water quality parameters, metals, and major ions.



**Figure 4-1 Mean Daily Discharge at Gaging Station GS01, Water Year 1998  
(January, February, March 1998)**

**Table 4-2 Gaging Station GS02: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.000	0.020	0.000	0.000	0.000	0.000
2	0.000	0.018	0.000	0.000	0.000	0.000
3	0.000	0.017	0.000	0.000	0.000	0.000
4	0.000	0.014	0.000	0.000	0.000	0.000
5	0.000	0.011	0.000a	0.000	0.000	0.000
6	0.000	0.010	0.000a	0.000	0.000	0.000
7	0.000	0.009	0.000a	0.000	0.000	0.000
8	0.000	0.008	0.000	0.000	0.000	0.000
9	0.000	0.008	0.000	b	0.000	0.000
10	0.000	0.007	0.000	b	0.000	0.000
11	0.000	0.006	0.000	b	0.000	0.000
12	0.000	0.006	0.000a	b	0.000	0.000
13	0.000	0.005	0.000a	b	0.000	0.000
14	0.000	0.004	0.000	0.000	0.000	0.000
15	0.000	0.008	0.000	0.000	0.000	0.000
16	0.000	0.016	0.000	0.000	0.000	0.000
17	0.000	0.005a	0.000	0.000	0.000	0.000
18	0.000	0.002a	0.000	0.000	0.000	0.000
19	0.000	0.001a	0.000	0.000	0.000	0.000
20	0.000	0.001a	0.000	0.000	0.000	0.000
21	0.000	0.000a	0.000	b	0.000	0.009
22	0.000	0.000a	0.000	b	0.000	0.093
23	0.000	0.000a	0.000a	b	0.000	0.050
24	0.000	0.000a	0.000a	b	0.000	0.022
25	0.000	0.000a	0.000a	0.000	0.000	0.020
26	0.000	0.000a	0.000a	0.000	0.000	0.017
27	0.000	0.000	0.000a	0.000	0.000	0.016
28	0.000	0.000	0.000a	0.000	0.000	0.014
29	0.007	0.000	0.000a	0.000	NA	0.013
30	0.034	0.000	0.000	0.000	NA	0.011
31	0.024	NA	0.000	0.000	NA	0.016
Mo. Avg. (cfs)	0.002	0.006	0.000	0.000	0.000	0.009

**Monthly Discharge**

Cubic Feet	5,641	15,342	0	0	0	24,203
Gallons	42,198	114,768	0	0	0	181,055
	0.13	0.35	0.00	0.00	0.00	0.56

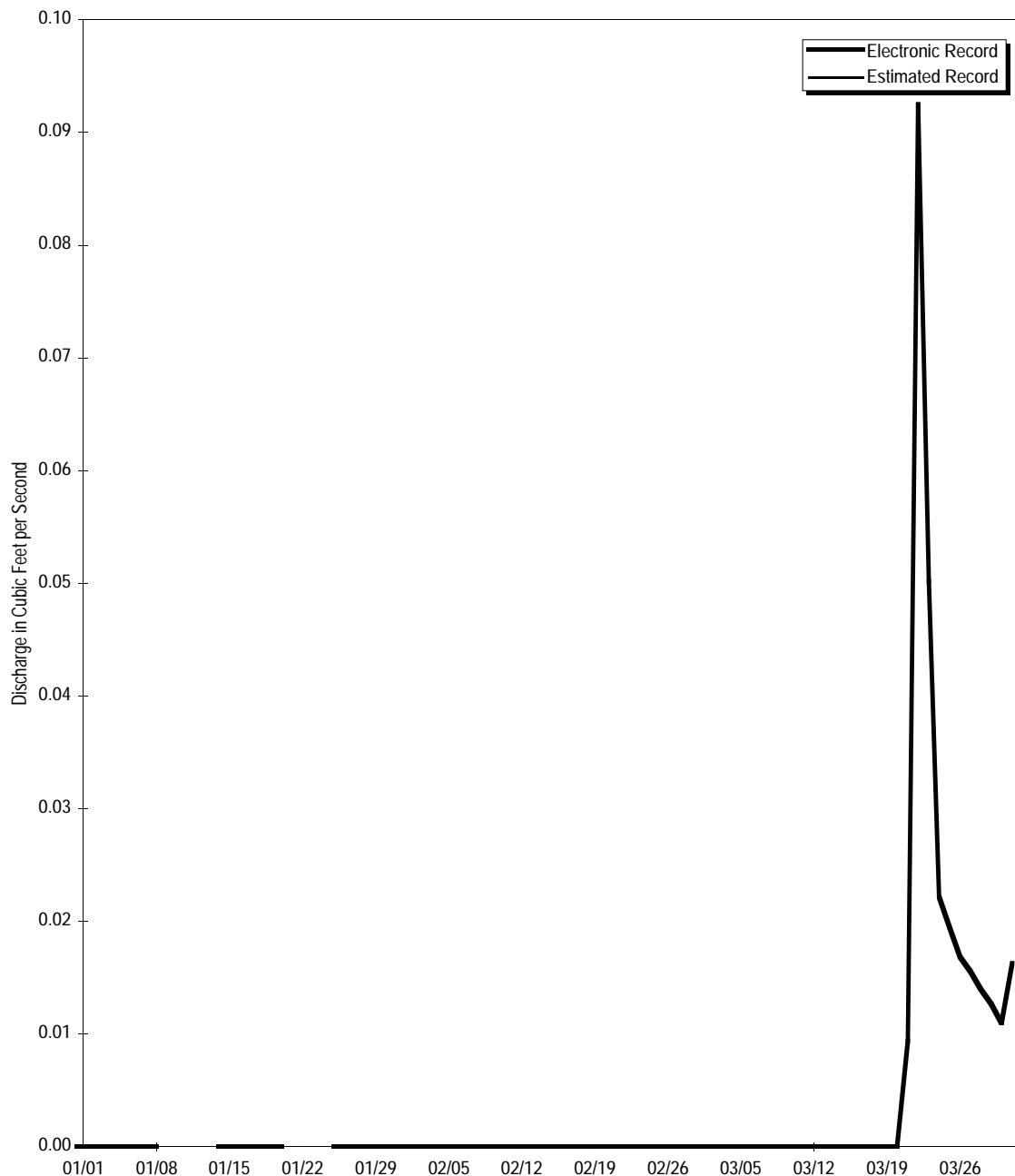
Acre Feet

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b No data or poor data because of winter icing conditions.

Gaging Station GS02 is located at  $39^{\circ} 52' 53''\text{N}$  and  $105^{\circ} 9' 55''\text{W}$ , at Mower Ditch and Indiana Street (See Section 4 Map). This station is a Buffer Zone Monitoring Location and is a monitoring point for water leaving the Site and flowing to Mower Reservoir. Storm event samples are collected for selected water quality parameters, metals, and major ions.



**Figure 4-2 Mean Daily Discharge at Gaging Station GS02, Water Year 1998  
(January, February, March 1998)**

**Table 4-3 Gaging Station GS03: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	2.818	0.481	3.502	0.007	0.006	0.004
2	3.664	0.196	3.737	0.009	0.006	0.004
3	1.755	0.102	3.319	0.010	0.006	0.005
4	1.721	0.053	4.390	0.010	0.006	0.005
5	1.590	0.032	2.617	0.008	0.006	0.005
6	2.079	0.027	0.061	0.010	0.006	0.007
7	2.540	0.022	0.032	0.007	0.006	0.008
8	2.235	0.022	0.027	0.007	0.006	0.005
9	1.574	0.043	0.024	0.007	0.006	0.004
10	0.562	0.073	0.021	0.007	0.005	0.006
11	0.037	0.218	0.016	0.007	0.006	0.006
12	0.025	0.208	0.012	0.007	1.057	0.006
13	0.013a	0.354	0.010	0.007	2.902	0.006
14	0.007a	0.321	0.010	0.006	3.086	0.006
15	0.004	0.440	0.009	0.006	3.011	0.005
16	0.004	0.329	0.008	0.006	3.063	0.005
17	0.005	0.256	0.009	0.006	2.179	0.003
18	0.005	0.256	0.017	0.005	1.595	0.019
19	0.006	0.383	0.011	0.005	1.593	0.048
20	0.007	0.428	0.009	0.005	1.717	0.559
21	0.008	2.937	0.008	0.005	1.366	1.339
22	0.009	4.859	0.007	0.003	1.050	5.005
23	0.006	4.694	0.007	0.003	1.312	5.931
24	0.011	4.799	0.008	0.002	0.041	1.382
25	0.013	4.249	0.010	0.002	0.009	0.624
26	0.276	3.359	0.010	0.003	0.007	0.331
27	1.188	3.244	0.010	0.003	0.006	0.209
28	0.620	3.194	0.008	0.003	0.005	0.143
29	0.789	3.071	0.007	0.004	NA	0.100
30	2.574	2.871	0.005	0.005	NA	0.180
31	1.083	NA	0.006	0.007	NA	1.002
Mo. Avg. (cfs)	0.564	1.384	0.578	0.006	0.859	0.547

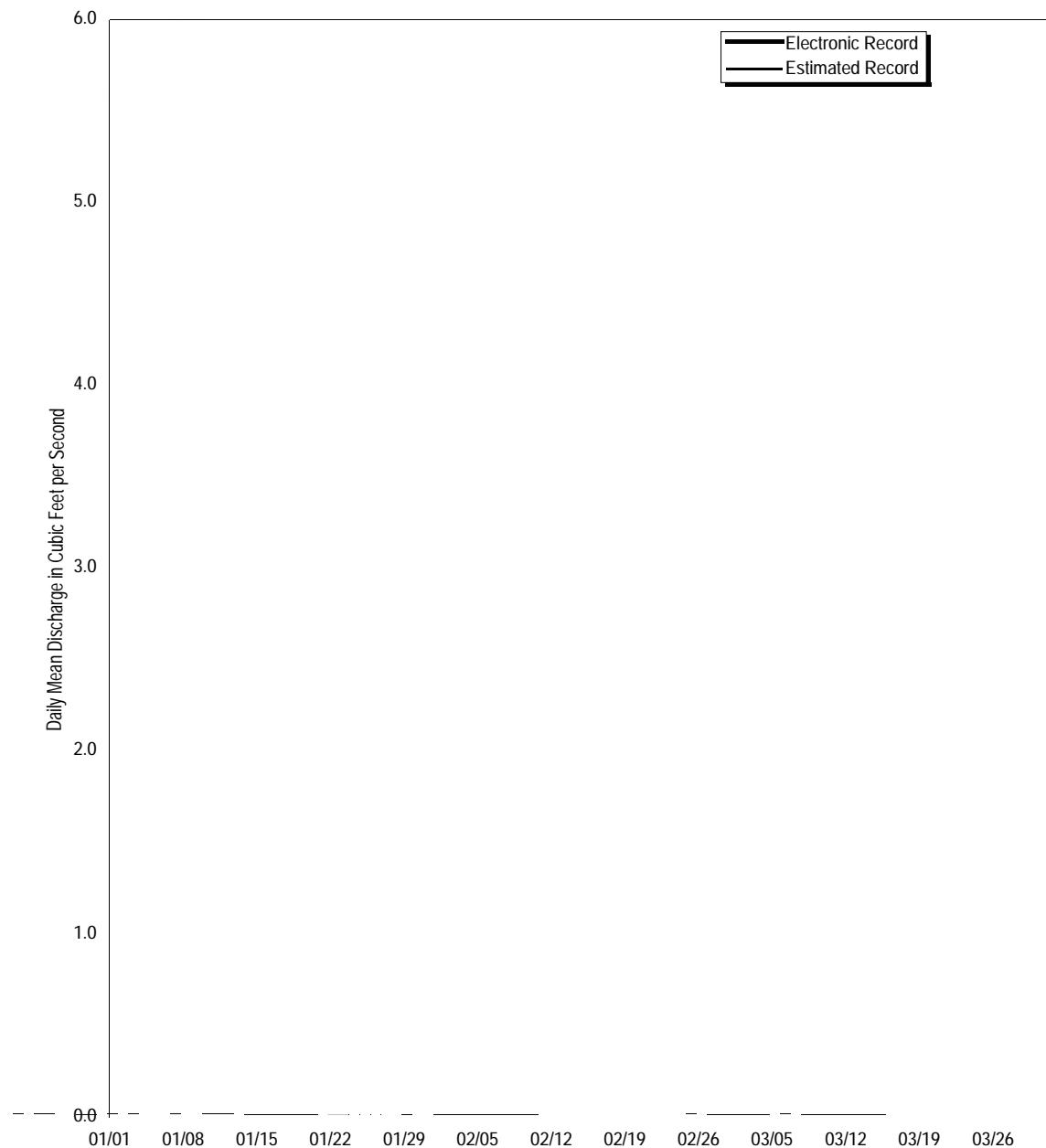
**Monthly Discharge**

Cubic Feet	2,352,512	3,587,470	1,548,797	1,5896	2,078,941	1,465,375
Gallons	17,598,014	26,836,144	11,585,810	118,912	15,551,561	10,961,765
Acre Feet	54.00	82.34	35.55	0.36	47.72	33.64

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS03 is located at 39° 54' 7"N, 105° 9' 59"W, at Walnut Creek and Indiana Street (See Section 4 Map). This station is a RFCA Point of Compliance, a Buffer Zone Monitoring Location and a monitoring point for water leaving the Site and flowing to the Broomfield Diversion Ditch. This station collects samples for selected radionuclides using continuous flow-paced sampling and storm event sampling for selected water quality parameters, metals, and major ions.



**Figure 4-3 Mean Daily Discharge at Gaging Station GS03, Water Year 1998  
(January, February, March 1998)**

**Table 4-4 Gaging Station GS04 Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.048	0.815	0.494	0.425	0.396	0.259
2	0.044	0.561	0.508	0.463	0.367	0.272
3	0.038	0.446	0.501	0.420	0.364	0.317
4	0.032	0.360	0.453	0.387	0.373	0.331
5	0.027	0.407	0.399	b	0.388	0.358
6	0.023	0.540	0.385a	b	0.395	0.353
7	0.019	0.419	0.418	b	0.394	0.359
8	0.016	0.376	0.466	b	0.390	0.390
9	0.012	0.464	0.466	b	0.400	0.408
10	0.010	0.504	0.418	b	0.373	0.412
11	0.008	0.492	0.356	b	0.339	0.422
12	0.106	0.515	0.346a	0.323	0.331	0.561
13	0.211	0.532	0.388	0.328	0.342	0.699
14	0.173	0.602	0.451	0.344	0.369	0.616
15	0.159	0.573	0.478	0.409	0.382	0.547
16	0.156	0.530a	0.433	0.419	0.457	0.515
17	0.158	0.538	0.523	0.484	0.488	0.513
18	0.151	0.561	0.526	0.542	0.454	0.896
19	0.138	0.652	0.462	0.526	0.401	0.843
20	0.149	0.815	0.455	0.452	0.377	0.892
21	0.176	0.736	0.417	0.381	0.366	1.319
22	0.189	0.606	0.435	0.366	0.378	5.292
23	0.184	0.541	0.452	0.348	0.378	8.064
24	0.317	0.554	0.485	0.378	0.390	3.377
25	0.423	0.577	0.506a	0.397	0.365	2.186
26	0.438	0.524	0.592a	0.388	0.296	1.696
27	0.671	0.519	0.624a	0.417	0.268	1.307
28	0.873	0.732	0.487a	0.405	0.269	1.106
29	1.082	0.567	0.442	0.396	NA	1.004
30	2.179	0.510	0.407	0.398	NA	1.229
31	1.425	NA	0.388	0.401	NA	1.977
Mo. Avg. (cfs)	0.311	0.552	0.457	0.408	0.375	1.242

**Monthly Discharge**

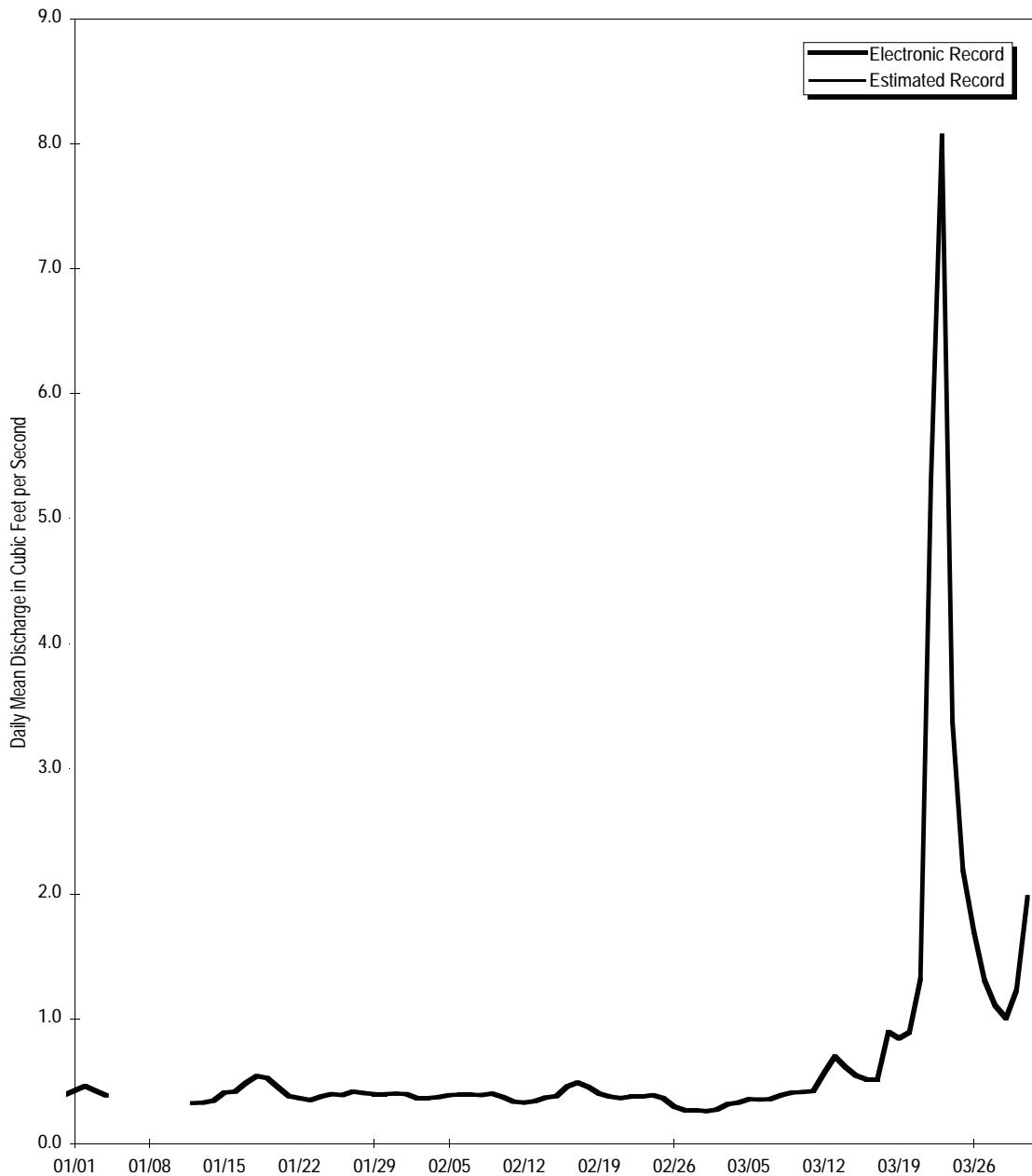
Cubic Feet	832,558	1,431,473	1,223,710	846,583	906,602	3,327,889
Gallons	6,227,964	10,708,166	9,153,990	6,332,879	6,781,855	24,894,341
Acre Feet	19.11	32.86	28.09	19.43	20.81	76.39

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b No data or poor data because of winter icing conditions.

Gaging Station GS04 is located  $39^{\circ} 54' 57''N$ ,  $105^{\circ} 11' 37''W$ , at Rock Creek and Highway 128 (See Section 4 Map). This station is a Buffer Zone Monitoring Location and is a monitoring point for water leaving the Site through the Rock Creek drainage flowing to Coal Creek. Storm event samples are collected for selected water quality parameters, metals, and major ions.



**Figure 4-4 Mean Daily Discharge at Gaging Station GS04, Water Year 1998  
(January, February, March 1998)**

**Table 4-5 Gaging Station GS05: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.032	0.204	0.145	0.117	0.094	0.125
2	0.031	0.135	0.150	0.118	0.082	0.124
3	0.030	0.106	0.167	0.073	0.083	0.102
4	0.025	0.078	0.135	0.072	0.079	0.056
5	0.023	0.076	0.163	0.076	0.068	0.072
6	0.019	0.074	0.137	a	0.080	0.074
7	0.017	0.069	0.143	a	0.088	0.155
8	0.015	0.070	0.176	a	0.075	0.128
9	0.012	0.126	0.178	0.125	0.074	0.124
10	0.010	0.202	0.162	0.107	0.069	0.151
11	0.010	0.191	0.240	0.112	0.080	0.147
12	0.049	0.314	0.276	0.107	0.080	0.230
13	0.023	0.352	0.315	0.106	0.068	0.183
14	0.018	0.487	0.293	0.088	0.062	0.086
15	0.016	0.289	0.226	0.120	0.063	0.079
16	0.016	0.274	0.184	0.104	0.090	0.102
17	0.015	0.238	0.189	0.131	0.094	0.190
18	0.015	0.291	0.174	0.168	0.073	0.282
19	0.012	0.335	0.119	0.164	0.064	0.425
20	0.011	0.235	0.125	0.109	0.064	0.513
21	0.011	0.143	0.132	0.103	0.066	0.997
22	0.010	0.118	0.115	0.098	0.058	4.605
23	0.010	0.102	0.114	0.135	0.058	4.372
24	0.051	0.130	0.110	0.278	0.062	0.711
25	0.065	0.128	0.075	0.096	0.054	0.328
26	0.184	0.104	0.034	0.079	0.066	0.233
27	0.269	0.121	0.038	0.123	0.097	0.217
28	0.509	0.287	0.014	0.121	0.160	0.178
29	1.403	0.176	0.089	0.147	NA	0.162
30	1.450	0.144	0.066	0.148	NA	0.441
31	0.431	NA	0.086	0.083	NA	1.598
Mo. Avg. (cfs)	0.155	0.187	0.147	0.118	0.077	0.554

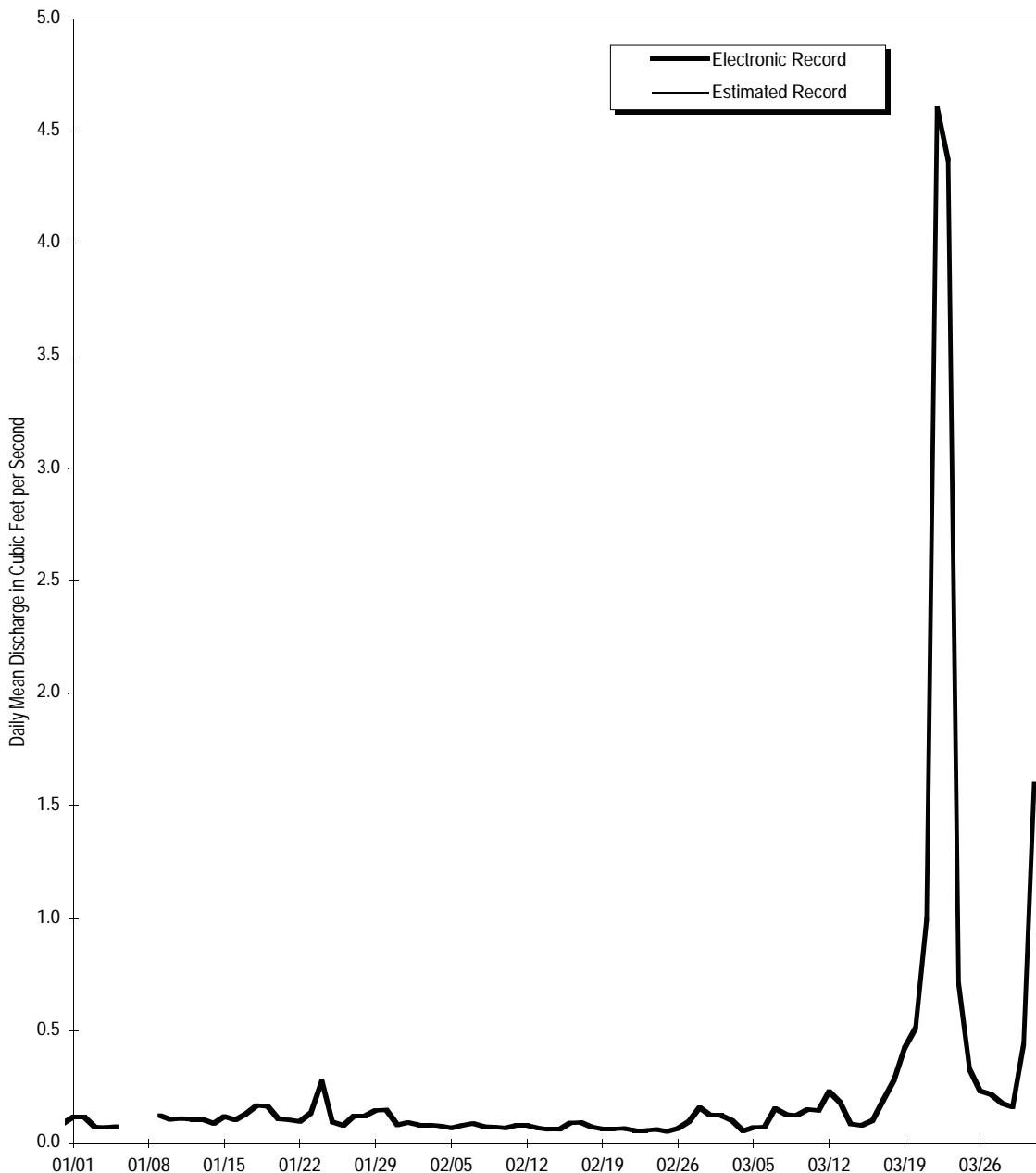
**Monthly Discharge**

Cubic Feet	414,132	483,894	394,760	285,761	185,975	1,485,075
Gallons	3,097,919	3,619,782	2,953,007	2,137,639	1,391,193	11,109,135
Acre Feet	9.51	11.11	9.06	6.56	4.27	34.09

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a No data or poor data because of winter icing conditions.

Gaging Station GS05 is located  $39^{\circ} 53' 6''N$ ,  $105^{\circ} 13' 17''W$ , at Kinnear Ditch and North Woman Creek (See Section 4 Map). This station is a Buffer Zone Monitoring Location and is a monitoring point for water entering North Woman Creek. Storm event samples are collected for selected water quality parameters, metals, and major ions.



**Figure 4-5 Mean Daily Discharge at Gaging Station GS05, Water Year 1998  
(January, February, March 1998)**

**Table 4-6 Gaging Station GS06: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.004	0.097	0.010	0.008	b	b
2	0.004	0.078	0.011	0.008	b	0.005
3	0.003	0.064	0.011	0.010	b	0.006
4	0.003	0.043	0.021	0.018	b	0.006
5	0.003	0.018	0.014	0.022	0.007	0.007
6	0.003	0.015	0.009	0.035	0.007	0.008
7	0.003	0.013	0.006	0.009	0.008	0.003
8	0.003	0.013	0.013	0.006	0.006	0.002
9	0.004	0.017	0.014	b	0.006	0.004
10	0.004	0.018	0.014	b	0.008	b
11	0.003	0.017	0.022	b	b	0.002
12	0.007	0.020	0.029	b	b	0.013
13	0.004	0.019	0.018	b	b	0.006
14	0.004	0.024	0.014	b	0.006	0.004
15	0.004	0.029a	0.014	b	0.007	0.004
16	0.004	0.019a	0.014	0.006	0.007	0.004
17	0.004	0.022	0.015	0.008	0.007	0.007
18	0.121	0.022	0.015	0.008	0.006	0.011
19	0.521	0.022	0.015	0.008	b	0.009
20	0.561	0.021	0.017	0.007	b	0.012
21	0.592	0.018	0.039	0.012	b	0.042
22	0.595	0.015	0.018	b	0.005	0.413
23	0.545	0.014	0.024	b	0.005	0.308
24	0.447	0.012	0.019	b	0.005	0.105
25	0.063	0.011	b	0.007	0.004	0.063
26	0.054	0.011	b	0.011	b	0.050
27	0.266	0.011	b	0.008	b	0.037
28	0.391	0.015	b	0.007	b	0.029
29	0.256	0.011	b	0.010	NA	0.026
30	0.184	0.010	b	0.007	NA	0.042
31	0.129	NA	0.029	b	NA	0.103
Mo. Avg. (cfs)	0.155	0.024	0.017	0.011	0.006	0.046

**Monthly Discharge**

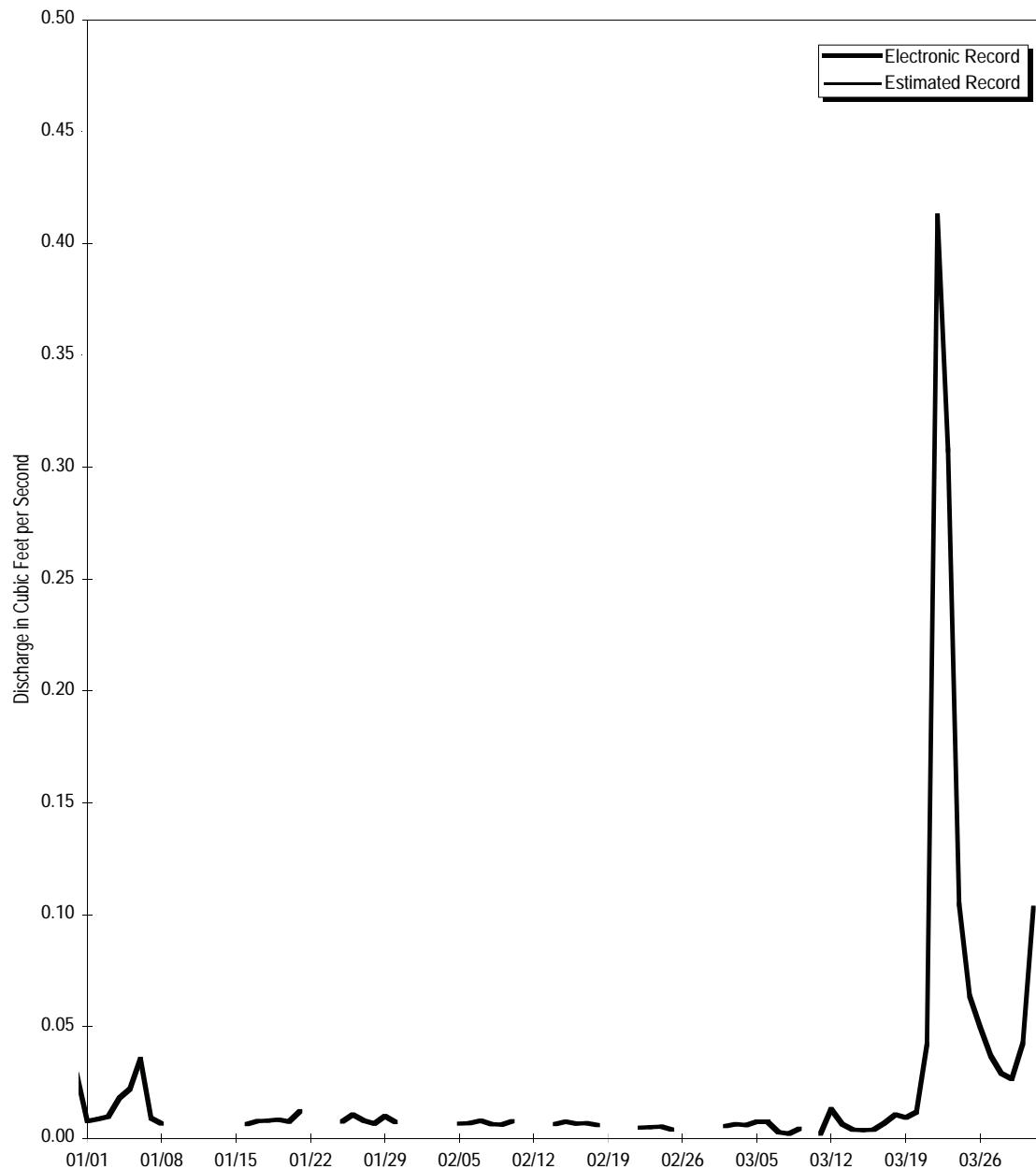
Cubic Feet	413,875	62,063	36,880	18,659	8,025	114,901
Gallons	3,095,999	464,260	275,885	139,580	60,032	859,516
Acre Feet	9.50	1.42	0.85	0.43	0.18	2.64

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b No data or poor data because of winter icing conditions.

Gaging Station GS06 is located  $39^{\circ} 52' 53''N$ ,  $105^{\circ} 13' 17''W$ , on South Woman Creek (See Section 4 Map). This station is a Buffer Zone Monitoring Location and is a monitoring point for water entering South Woman Creek. Storm event samples are collected for selected water quality parameters, metals, and major ions.



**Figure 4-6 Mean Daily Discharge at Gaging Station GS06, Water Year 1998  
(January, February, March 1998)**

**Table 4-7 Gaging Station GS08: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	2.584	0.000	0.000	0.000	0.000	0.000
2	1.951	0.000	0.000	0.000	0.000	0.000
3	0.166	0.000	0.000	0.000	0.000	0.000
4	0.198	0.000	0.000	0.000	0.000	0.000
5	0.191	0.000	0.000	0.000	0.000	0.000
6	0.203	0.000	0.000	0.000	0.000	0.000
7	0.216	0.000	0.000	0.000	0.000	0.000
8	0.229	0.000	0.000	0.000	0.000	0.000
9	0.265	0.000	0.000	0.000	0.000	0.000
10	0.150	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	0.000	0.000
13	0.000	0.000	0.000	0.000	0.000	0.000
14	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000
16	0.000	0.000	0.000	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.009a	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	NA	0.000
30	0.000	0.000	0.000	0.000	NA	0.000
31	0.000	NA	0.000	0.000	NA	0.000
Mo. Avg. (cfs)	0.573	0.000	0.000	0.000	0.000	0.000

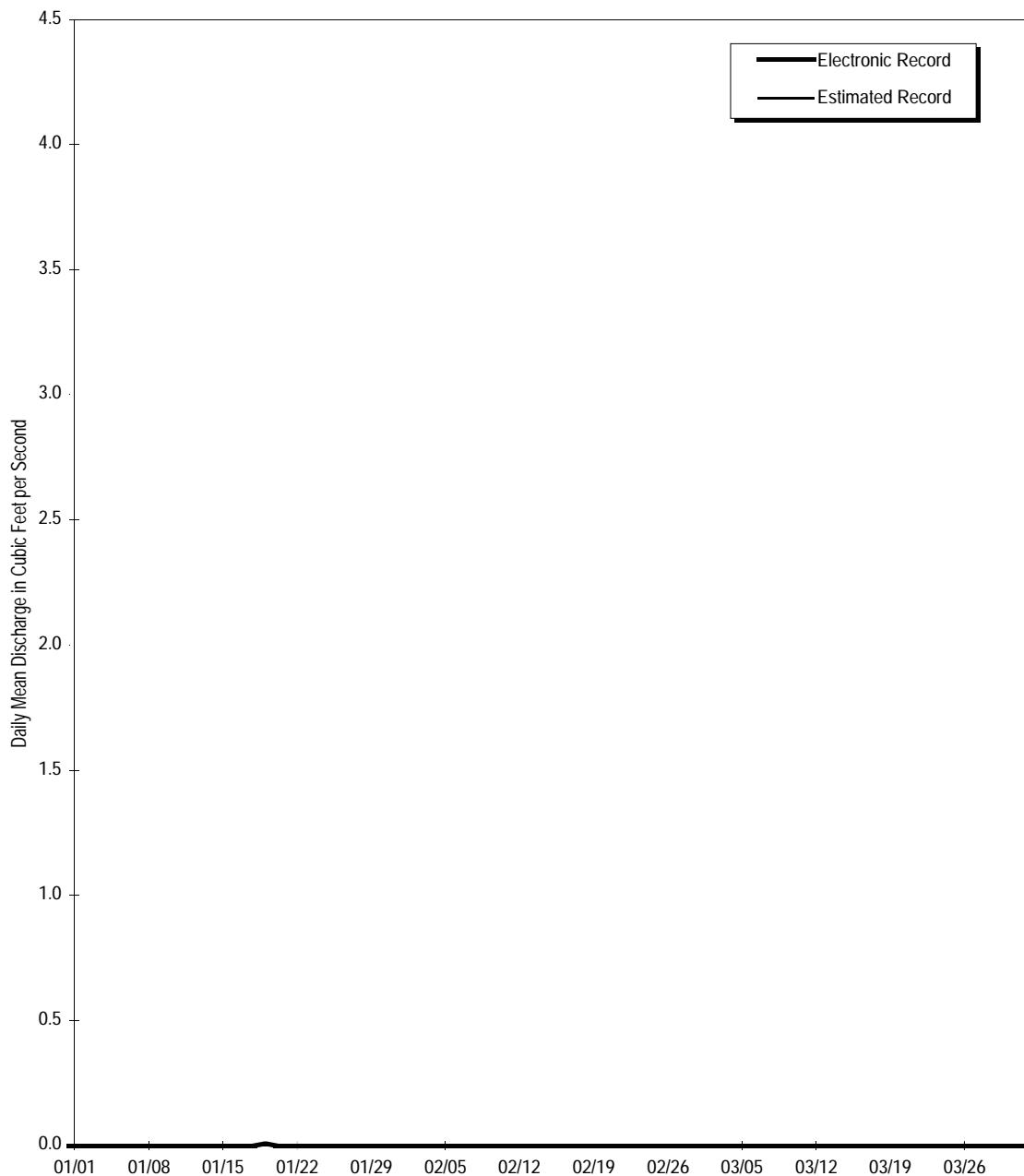
**Monthly Discharge**

Cubic Feet	1,535,344	0	0	758	0	0
Gallons	11,485,173	0	0	5,669	0	0
Acre Feet	35.24	0.00	0.00	0.02	0.00	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Flow represents leak testing from Pond B-5 Upgrades Projects.

Gaging Station GS08 is located  $39^{\circ} 53' 54''\text{N}$ ,  $105^{\circ} 10' 48''\text{W}$ , at the Pond B-5 Outfall on South Walnut Creek (See Section 4 Map). This station is a RFCA Point of Compliance and monitors water discharged from Pond B-5 to South Walnut Creek. This station collects samples for selected radionuclides using continuous flow-paced sampling.



**Figure 4-7 Mean Daily Discharge at Gaging Station GS08, Water Year 1998  
(January, February, March 1998)**

**Table 4-8 Gaging Station GS10: Mean Daily Discharge (Cubic Feet per Second)**

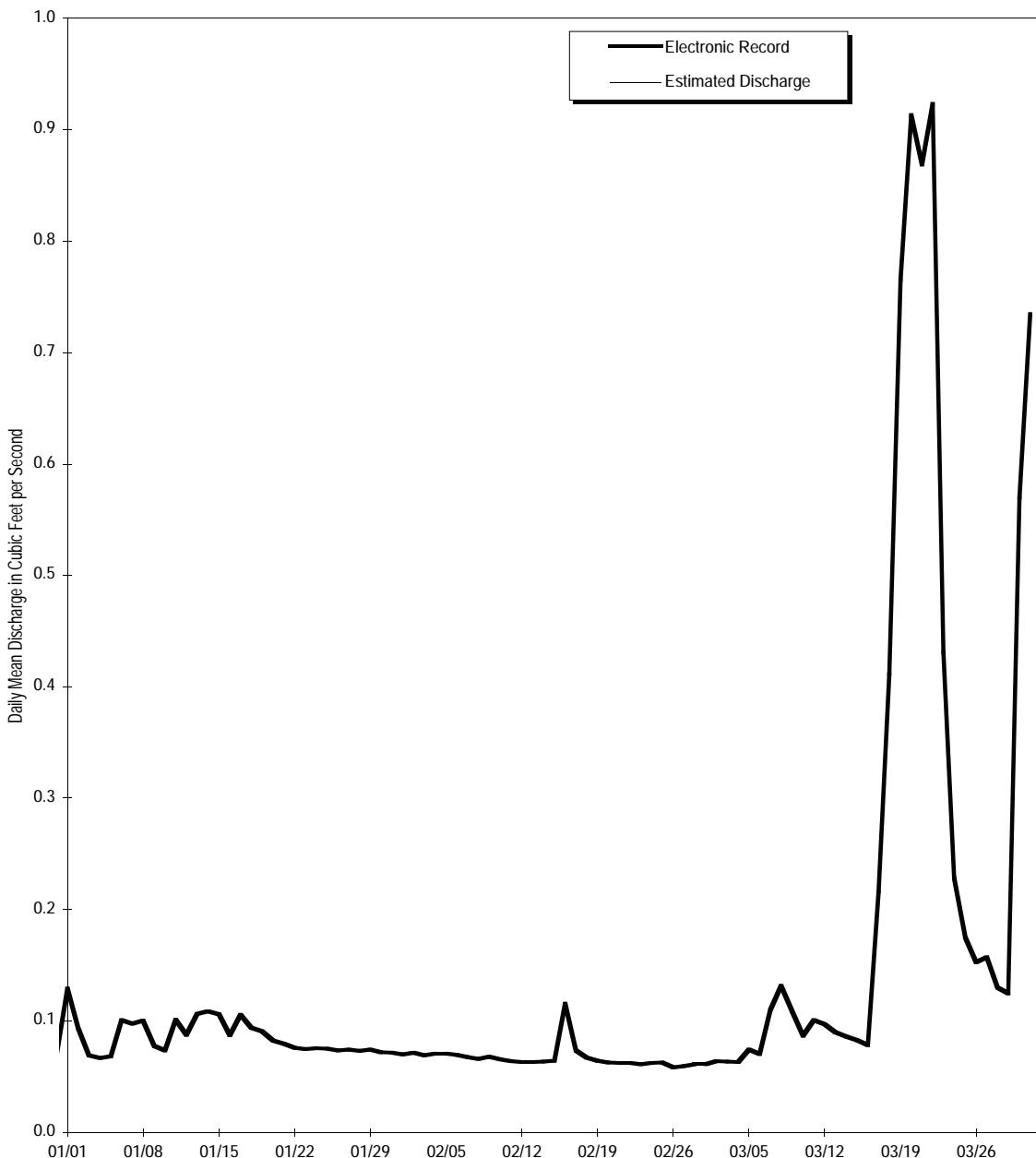
Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.086	0.112	0.084	0.129	0.070	0.061
2	0.086	0.088	0.107	0.094	0.072	0.064
3	0.084	0.084	0.122	0.069	0.069	0.064
4	0.089	0.080	0.091	0.067	0.071	0.063
5	0.084	0.076	0.085	0.068	0.071	0.075
6	0.085	0.077	0.083	0.101	0.070	0.071
7	0.084	0.075	0.078	0.097	0.067	0.110
8	0.087	0.085	0.082	0.100	0.066	0.132
9	0.078	0.318	0.086	0.078	0.068	0.108
10	0.082	0.266	0.097	0.074	0.066	0.087
11	0.083	0.181	0.088	0.101	0.064	0.101
12	0.458	0.270	0.092	0.088	0.063	0.097
13	0.093	0.161	0.090	0.106	0.063	0.090
14	0.074	0.220	0.096	0.109	0.063	0.086
15	0.074	0.112	0.099	0.106	0.064	0.083
16	0.075	0.104	0.095	0.087	0.116	0.079
17	0.073	0.118	0.098	0.105	0.074	0.216
18	0.073	0.115	0.092	0.094	0.067	0.411
19	0.074	0.124	0.086	0.091	0.064	0.765
20	0.077	0.123	0.080	0.083	0.063	0.913
21	0.075	0.106	0.075	0.080	0.063	0.869
22	0.073	0.102	0.077	0.076	0.062	0.923
23	0.083	0.095	0.081	0.075	0.061	0.431
24	0.646	0.102	0.079	0.076	0.062	0.228
25	0.246	0.100	0.168	0.075	0.063	0.175
26	1.195	0.090	0.095	0.074	0.058	0.153
27	1.494	0.113	0.082	0.074	0.060	0.157
28	0.695	0.183	0.075	0.073	0.061	0.130
29	0.481	0.088	0.080	0.074	NA	0.125
30	0.417	0.086	0.073	0.072	NA	0.570
31	0.237	NA	0.070	0.072	NA	0.735
Mo. Avg. (cfs)	0.247	0.128	0.090	0.086	0.067	0.264

**Monthly Discharge**

Cubic Feet	660,411	333,018	240,632	230,611	162,604	705,985
Gallons	4,940,217	249,1145	1,800,055	1,725,090	1,216,360	5,281,137
Acre Feet	15.16	7.64	5.52	5.29	3.73	16.20

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS10 is located  $39^{\circ} 53' 35''\text{N}$ ,  $105^{\circ} 11' 27''\text{W}$  on South Walnut Creek above the Pond B-1 Bypass (See Section 4 Map). This station is a RFCA Action Level Framework and a New Source Detection Location and monitors water leaving the Site Industrial Area and entering the B-Series Ponds and South Walnut Creek. This station collects samples for selected radionuclides, metals, and water quality parameters using continuous flow-paced sampling.



**Figure 4-8 Mean Daily Discharge at Gaging Station GS10, Water Year 1998  
(January, February, March 1998)**

**Table 4-9 Gaging Station GS11: Mean Daily Discharge (Cubic Feet per Second)**

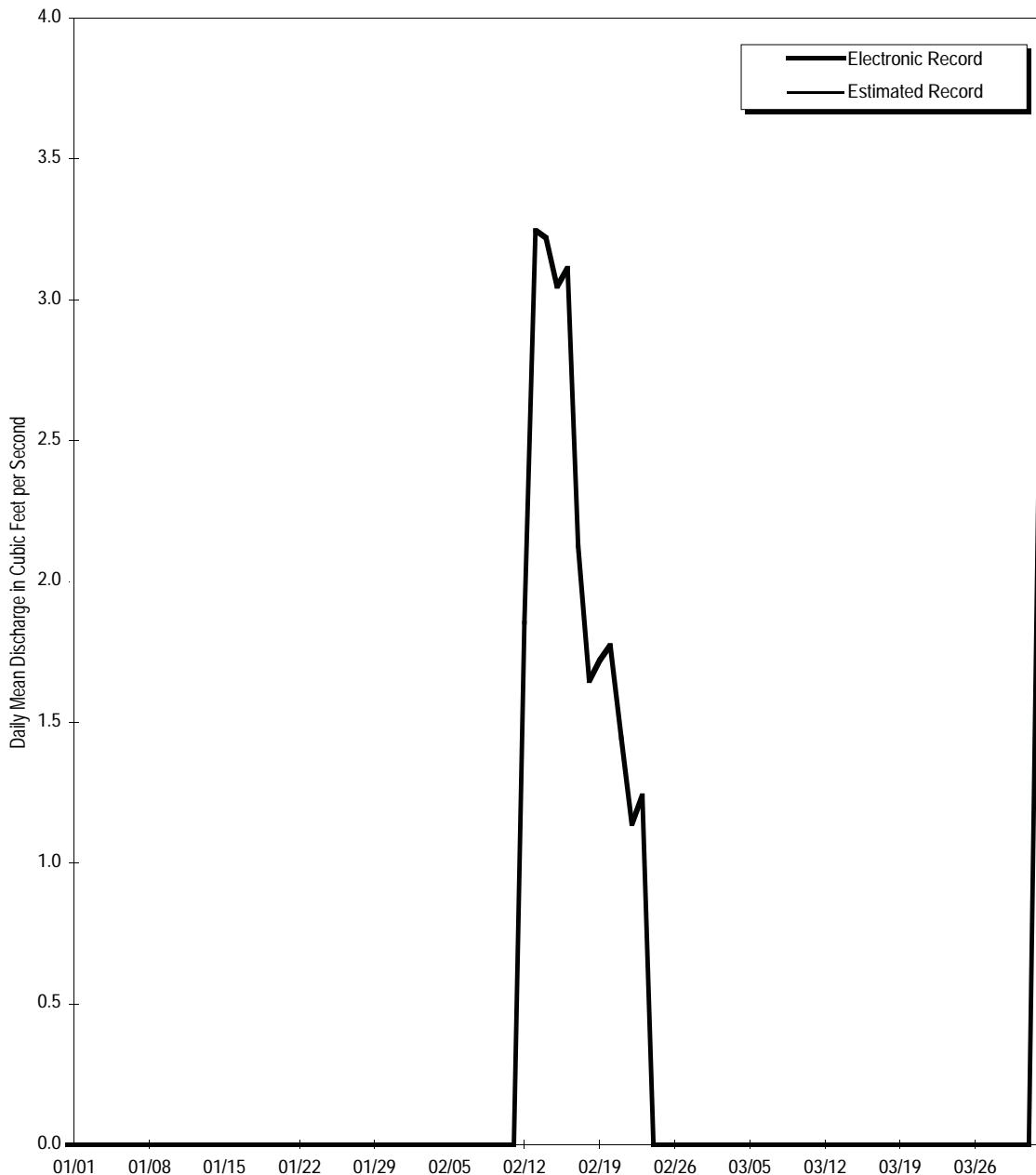
Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.588	0.000	3.642	0.000	0.000	0.000
2	1.652	0.000	3.795	0.000	0.000	0.000
3	1.657	0.000	3.484	0.000	0.000	0.000
4	1.559	0.000	4.652	0.000	0.000	0.000
5	1.406	0.000	2.327	0.000	0.000	0.000
6	1.960	0.000	0.000	0.000	0.000	0.000
7	2.319	0.000	0.000	0.000	0.000	0.000
8	2.073	0.000	0.000	0.000	0.000	0.000
9	1.353	0.000	0.000	0.000	0.000	0.000
10	0.297	0.000	0.000	0.000	0.000	0.000
11	0.000	0.000	0.000	0.000	0.000	0.000
12	0.000	0.000	0.000	0.000	1.854	0.000
13	0.000	0.000	0.000	0.000	3.246	0.000
14	0.000	0.000	0.000	0.000	3.220	0.000
15	0.000	0.000	0.000	0.000	3.048	0.000
16	0.000	0.000	0.000	0.000	3.113	0.000
17	0.000	0.000	0.000	0.000	2.127	0.000
18	0.000	0.000	0.000	0.000	1.647	0.000
19	0.000	0.000	0.000	0.000	1.719	0.000
20	0.000	0.000	0.000	0.000	1.773	0.000
21	0.000	3.186	0.000	0.000	1.443	0.000
22	0.000	4.999	0.000	0.000	1.138	0.000
23	0.000	4.896	0.000	0.000	1.239	0.000
24	0.000	4.997	0.000	0.000	0.000	0.000
25	0.000	4.369	0.000	0.000	0.000	0.000
26	0.000	3.492	0.000	0.000	0.000	0.000
27	0.000	3.310	0.000	0.000	0.000	0.000
28	0.000	3.161	0.000	0.000	0.000	0.000
29	0.000	3.009	0.000	0.000	NA	0.000
30	0.000	2.853	0.000	0.000	NA	0.000
31	0.000	NA	0.000	0.000	NA	0.000
Mo. Avg. (cfs)	0.479	1.276	0.577	0.000	0.913	0.000

**Monthly Discharge**

Cubic Feet	1,284,187	3,306,656	1,546,508	0	2,209,092	0
Gallons	9,606,388	24,735,509	11,568,684	0	16,525,154	0
Acre Feet	29.48	75.90	35.50	0.00	50.71	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS11 is located  $39^{\circ} 54' 3''N$ ,  $105^{\circ} 10' 47''W$ , at the Pond A-4 Outfall on North Walnut Creek (See Section 4 Map). This station is a RFCA Point of Compliance and monitors water discharged from Pond A-4 to North Walnut Creek. This station collects samples for selected radionuclides using continuous flow-paced sampling.



**Figure 4-9 Mean Daily Discharge at Gaging Station GS11, Water Year 1998  
(January, February, March 1998)**

**Table 4-10 Gaging Station GS16: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.072	0.166	0.183	0.235	0.183	0.420
2	0.076	0.148	0.195	0.198	0.154	0.498
3	0.069	0.138	0.202	0.149	0.171	No Data
4	0.071	0.123	0.200	0.185	0.166	No Data
5	0.065	0.134	0.290	0.179	0.158	No Data
6	0.072	0.138	0.487	0.516	0.171	No Data
7	0.075	0.137	0.490	0.228	0.172	0.455
8	0.076	0.149	0.348	0.312	0.160	0.401
9	0.080	0.203	0.210	0.415	0.161	0.382
10	0.081	0.211	0.188	0.478	0.152	0.429
11	0.076	0.193	0.264	0.262	0.178	0.441
12	0.229	0.206	0.515	0.157	0.227	0.505
13	0.104	0.214	0.592	0.154	0.229	0.356
14	0.095	0.213	0.453	0.151	0.163	0.266
15	0.095	0.309	0.250	0.216	0.165	0.243
16	0.096	0.541	0.196	0.156	0.201	0.228
17	0.094	0.241	0.201	0.293	0.199	0.300
18	0.090	0.201	0.187	0.229	0.166	0.309
19	0.096	0.261	0.168	0.220	0.163	0.350
20	0.103	0.279	0.176	0.151	0.175	0.376
21	0.103	0.188	0.197	0.196	0.209	0.487
22	0.098	0.175	0.255	0.330	0.155	1.010
23	0.100	0.184	0.297	0.439	0.160	0.963
24	0.176	0.218	0.302a	0.422	0.157	0.327
25	0.179	0.204	0.572a	0.306	0.126	0.239
26	0.202	0.173	0.319a	0.327	0.177	0.205
27	0.297	0.195	0.241	0.305	0.299	0.198
28	0.345	0.304	0.305	0.178	0.433	0.184
29	0.441	0.187	0.311	0.197	NA	0.187
30	0.720	0.182	0.266	0.184	NA	0.308
31	0.254	NA	0.300	0.163	NA	0.478
Mo. Avg. (cfs)	0.153	0.207	0.295	0.256	0.187	0.391

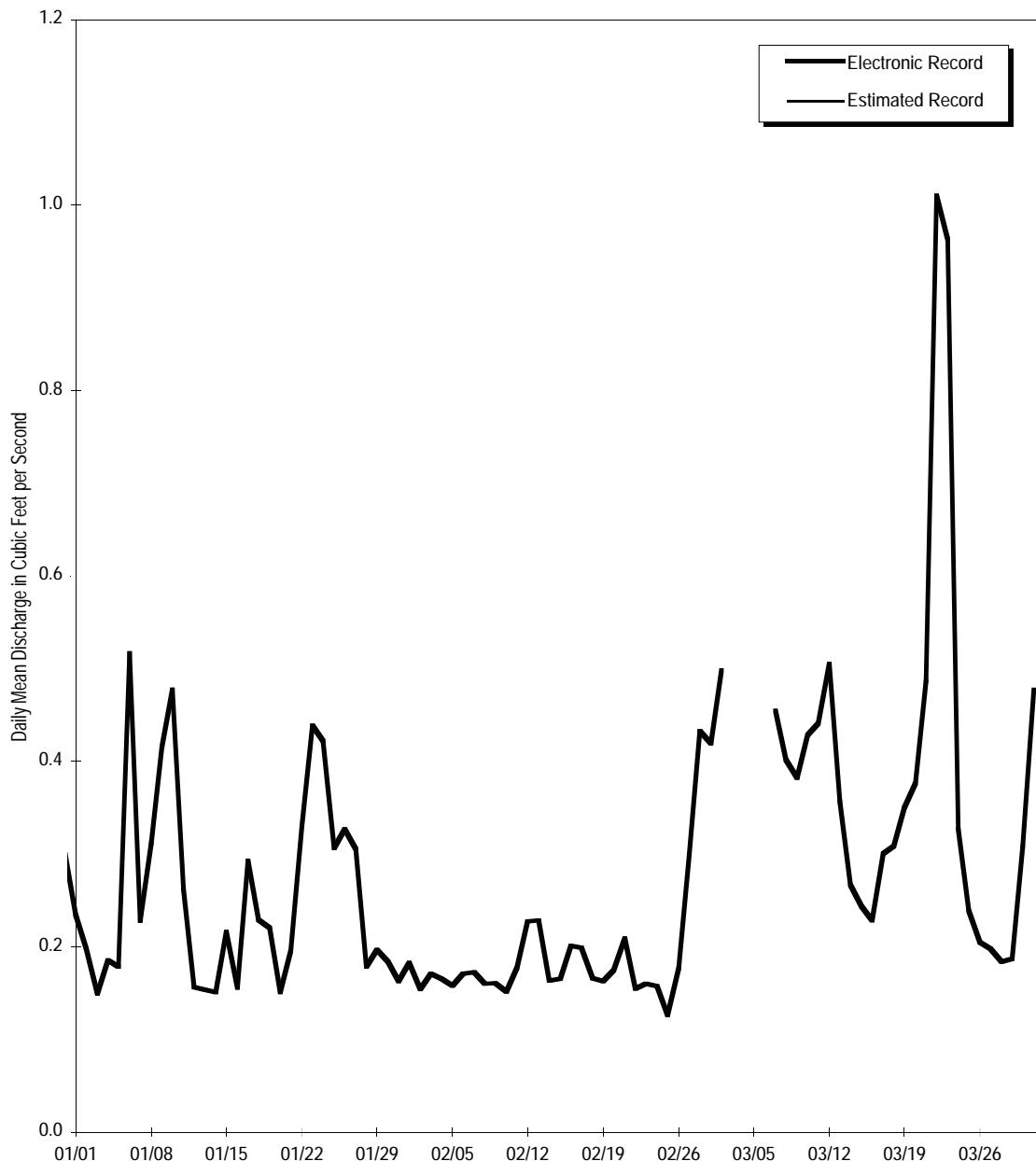
**Monthly Discharge**

Cubic Feet	408,815	536,972	791,156	685,209	451,907	911,141
Gallons	3,058,149	4,016,831	5,918,259	5,125,720	3,380,496	6,815,806
Acre Feet	9.38	12.33	18.16	15.73	10.37	20.91

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS16 is located  $39^{\circ} 53' 1''N$ ,  $105^{\circ} 12' 8''W$  along Antelope Springs Gulch, south of Woman Creek (See Section 4 Map). This station is a Buffer Zone Monitoring Location and is a monitoring point for water entering Woman Creek from Antelope Springs. No samples are collected at this location.



**Figure 4-10 Mean Daily Discharge at Gaging Station GS16, Water Year 1998  
(January, February, March 1998)**

**Table 4-11 Gaging Station GS27: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000	0.0000a	0.0000
6	0.0000	0.0000	0.0000	0.0000	0.0000a	0.0000
7	0.0000	0.0000	0.0000	0.0000	0.0000a	0.0000
8	0.0000	0.0000	0.0000	0.0001	0.0000a	0.0005
9	0.0000	0.0008	0.0000	0.0000	b	0.0001
10	0.0000	0.0009	b	0.0000	b	0.0000
11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
12	0.0011	0.0008a	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0022a	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000a	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000a	0.0000	0.0003	0.0000	0.0002
18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0007
19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0035a
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0042a
21	0.0000	0.0000	0.0000	0.0000	0.0000	0.0039
22	0.0000	0.0000	0.0000	0.0000	0.0000	0.0015
23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	0.0022	0.0000	0.0000	0.0000	0.0000	0.0000
25	0.0017	0.0000	0.0000	0.0000	0.0000	0.0000
26	0.0052	0.0000	0.0000	0.0000	0.0000	0.0000
27	0.0065	0.0000	0.0000	0.0000	0.0000	0.0000
28	0.0019	0.0000	0.0000	0.0000	0.0000	0.0000
29	0.0002	0.0000	0.0000	0.0000	NA	0.0000
30	0.0000	0.0000	0.0000	0.0000	NA	0.0015
31	0.0000	NA	0.0000	0.0000	NA	0.0019
Mo. Avg. (cfs)	0.0006	0.0002	0.0000	0.000	0.000	0.001

**Monthly Discharge**

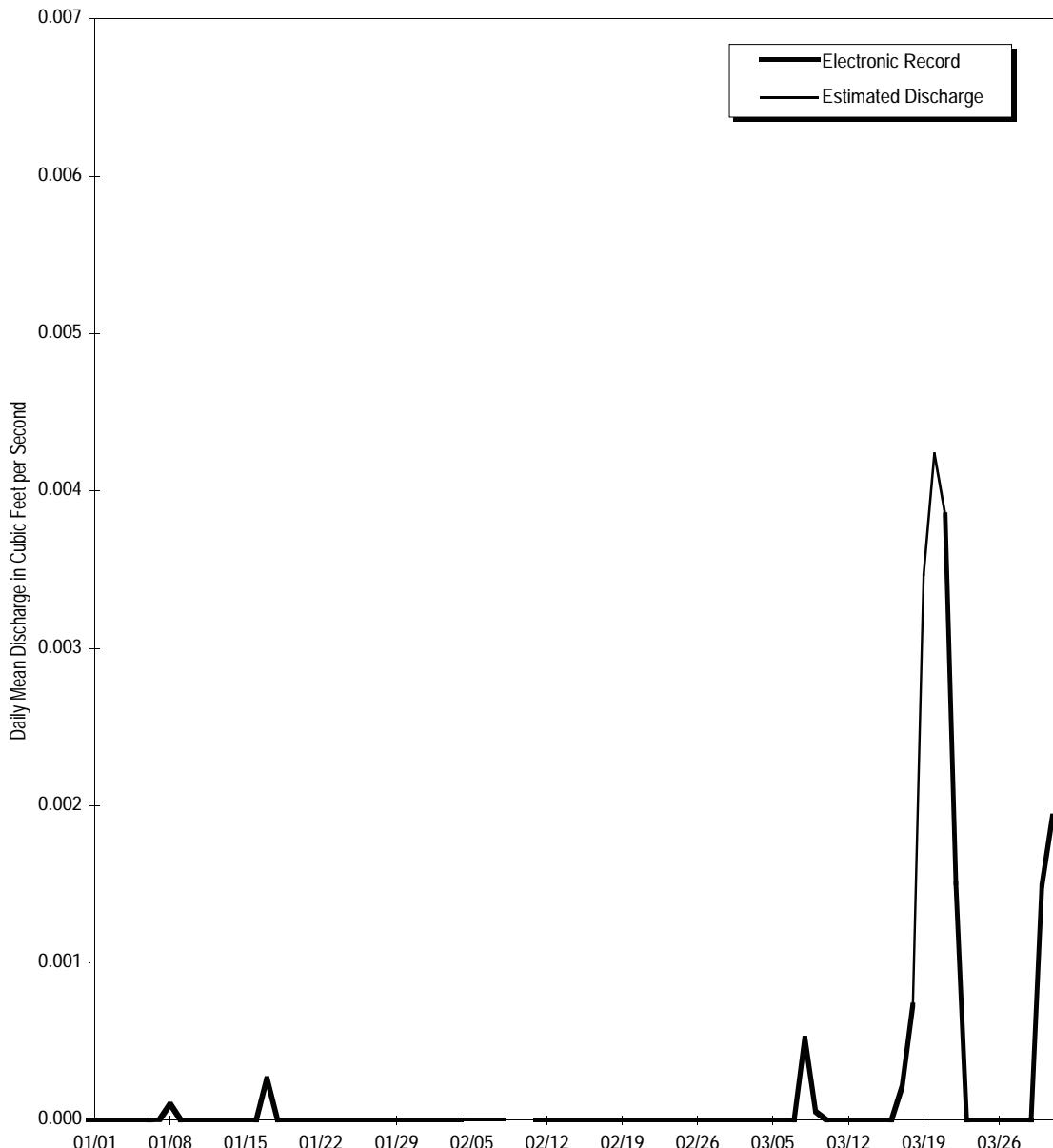
Cubic Feet	1,628	423	6	32	0	1558
Gallons	12,176	3,167	43	240	0	11652
Acre Feet	0.037	0.010	0.000	0.001	0.000	0.036

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b Bad data because of equipment failures.

Gaging Station GS27 is located at State Plane 2080529; 751216, at the small drainage ditch NW of Building 884 (See Section 4 Map). This location is a Performance and Best Management Practices Monitoring Location and monitors water draining from the Building 889 area. This station collects samples for selected radionuclides using continuous, flow-paced sampling.



**Figure 4-11 Mean Daily Discharge at Gaging Station GS27, Water Year 1998  
(January, February, March 1998)**

**Table 4-12 Gaging Station GS31: Mean Daily Discharge (Cubic Feet per Second)**

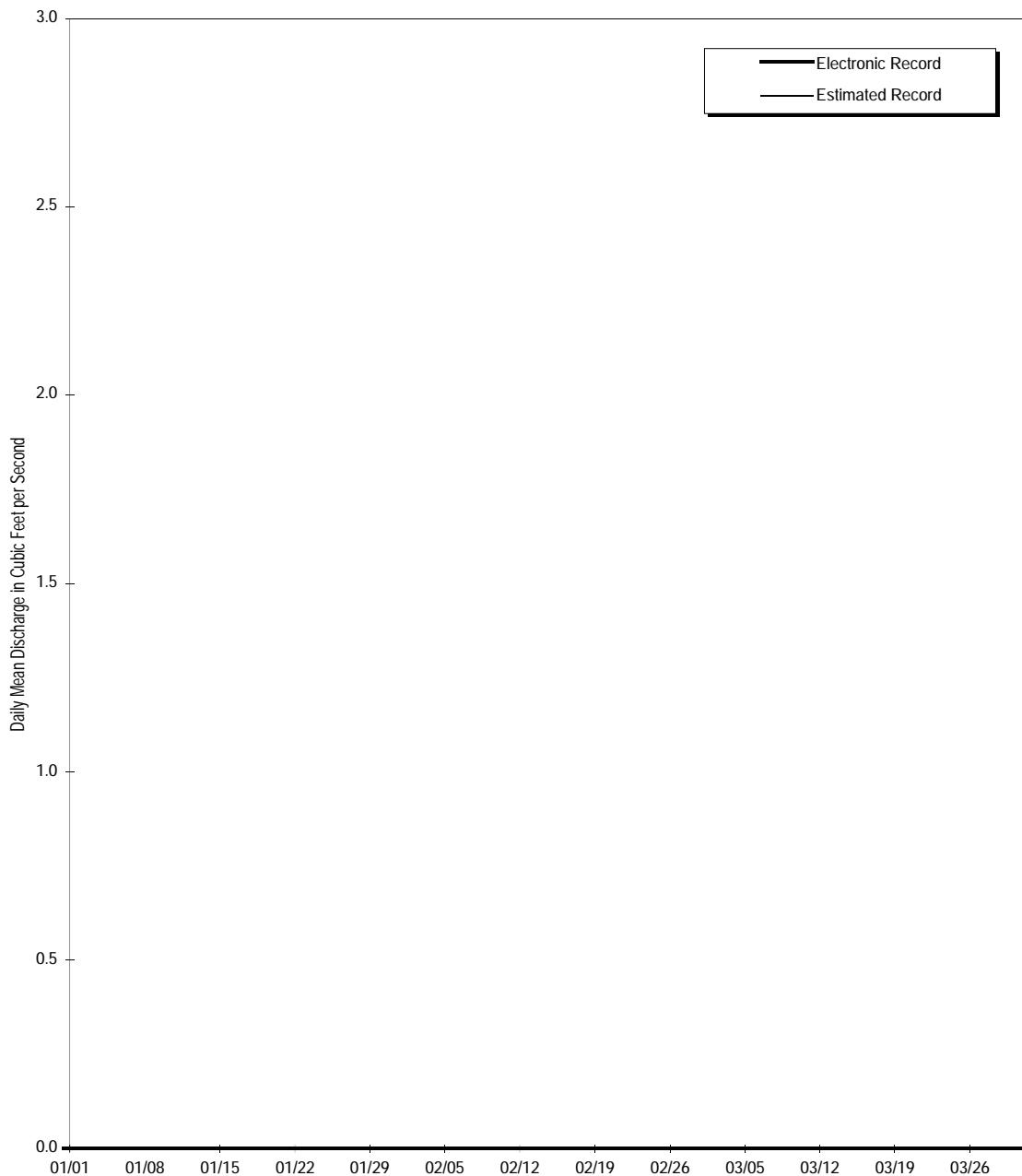
Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.000	0.000	0.000	0.000	0.000	0.000
2	0.000	0.000	0.000	0.000	0.000	0.000
3	0.000	0.000	0.000	0.000	0.000	0.000
4	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	1.567	0.000	0.000	0.000
9	0.000	0.000	2.396	0.000	0.000	0.000
10	0.000	0.000	2.493	0.000	0.000	0.000
11	0.000	0.000	2.500	0.000	0.000	0.000
12	0.000	0.000	2.414	0.000	0.000	0.000
13	0.000	0.000	2.310	0.000	0.000	0.000
14	0.000	0.000	2.399	0.000	0.000	0.000
15	0.000	0.000	1.131	0.000	0.000	0.000
16	0.000	0.000	0.020	0.000	0.000	0.000
17	0.000	0.000	0.000	0.000	0.000	0.000
18	0.000	0.000	0.000	0.000	0.000	0.000
19	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	0.000	0.000
22	0.000	0.000	0.000	0.000	0.000	0.000
23	0.000	0.000	0.000	0.000	0.000	0.000
24	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000
26	0.000	0.000	0.000	0.000	0.000	0.000
27	0.000	0.000	0.000	0.000	0.000	0.000
28	0.000	0.000	0.000	0.000	0.000	0.000
29	0.000	0.000	0.000	0.000	NA	0.000
30	0.000	0.000	0.000	0.000	NA	0.000
31	0.000	NA	0.000	0.000	NA	0.000
Mo. Avg. (cfs)	0.000	0.000	0.556	0.000	0.000	0.000

**Monthly Discharge**

Cubic Feet	0	0	1,488,755	0	0	0
Gallons	0	0	11,136,659	0	0	0
Acre Feet	0.00	0.00	34.17	0.00	0.00	0.00

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station GS31 is located at State Plane 2089268; 747506, at the Pond C-2 Outfall (See Section 4 Map). This station is a RFCA Point of Compliance and monitors water discharged from Pond C-2. This station collects samples for selected radionuclides using continuous flow-paced sampling.



**Figure 4-12 Mean Daily Discharge at Gaging Station GS31, Water Year 1998  
(January, February, March 1998)**

**Table 4-13 Gaging Station GS33: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.000	0.014	0.001	0.000	b	0.000
2	0.000	0.000a	0.001	0.000	b	0.000
3	0.000	0.000a	b	b	b	0.000
4	0.000	0.000	b	b	b	0.000
5	0.000	0.000	b	b	b	0.000
6	0.000	0.000	b	b	b	0.000
7	0.000	0.000	0.001a	0.000	b	0.000
8	0.000	0.000	b	0.006	b	b
9	0.000	0.000	0.006	0.000	b	b
10	0.000	0.003a	b	0.000	b	b
11	0.000	0.027a	b	0.000	b	b
12	0.000	0.015a	b	0.000	b	b
13	0.000	0.020a	b	0.000	b	0.024
14	0.000	0.022a	0.005a	0.000	b	0.016
15	0.000	0.022a	0.006a	0.000	b	0.008
16	0.000	0.009a	0.002a	0.000	b	0.004
17	0.000	0.005a	0.001a	0.000	0.002a	0.006
18	0.000	0.012a	0.003a	0.000	0.001a	0.148
19	0.000	0.027a	WR	0.000	0.000a	0.128a
20	0.000	0.041	WR	0.000	0.000	0.337a
21	0.000	0.025a	WR	0.000	0.000	0.485
22	0.000	0.007a	WR	0.000	0.000	0.681
23	0.000	0.003a	WR	0.000	0.000	0.541
24	0.000	0.002a	WR	0.000	0.000	0.163
25	0.000	0.006	WR	0.000	0.000	0.077
26	0.000	0.005	WR	0.000	0.000	0.046
27	0.000	0.005	WR	0.000	0.000	0.037
28	0.408	0.026	WR	0.001a	0.000	0.029
29	0.227	0.010	WR	0.001a	NA	0.023
30	0.288	0.003a	0.000a	0.002a	NA	0.104
31	0.070	NA	0.000	0.000a	NA	0.304
Mo. Avg. (cfs)	0.032	0.010	0.002	0.000	0.000	0.122

**Monthly Discharge**

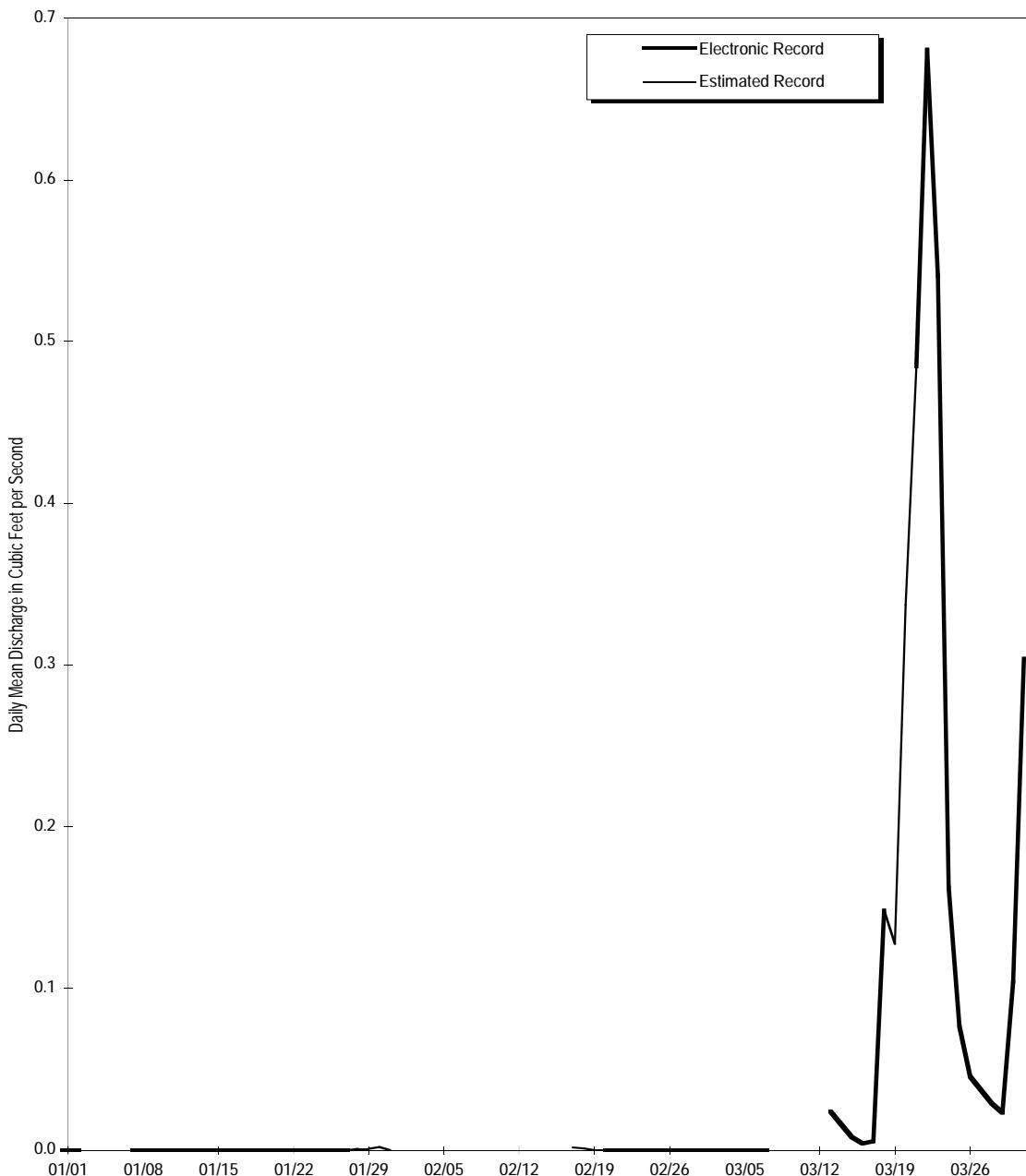
Cubic Feet	85,754	26,693	2,320	316	246	272,938
Gallons	641,482	199,679	17,358	2,366	1,839	2,041,719
Acre Feet	1.97	0.61	0.05	0.01	0.01	6.26

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b No data or poor data because of winter icing conditions.

Gaging Station GS33 is located on No Name Gulch at the confluence with Walnut Creek. This station is a RFCA Source Location station monitoring water discharge from the Landfill Pond as well as runoff from the No Name Gulch drainage basin reaching Walnut Creek. This station collects samples for selected radionuclides using continuous, flow-paced sampling.



**Figure 4-13 Mean Daily Discharge at Gaging Station GS33, Water Year 1998  
(January, February, March 1998)**

**Table 4-14 Gaging Station GS34 Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	No Data	No Data	No Data	No Data	No Data	b
2	No Data	No Data	No Data	No Data	No Data	b
3	No Data	No Data	No Data	No Data	No Data	b
4	No Data	No Data	No Data	No Data	No Data	b
5	No Data	No Data	No Data	No Data	0.000	0.000
6	No Data	No Data	No Data	No Data	0.000	0.001
7	No Data	No Data	No Data	No Data	0.000	0.000
8	No Data	No Data	No Data	No Data	0.000	0.000
9	No Data	No Data	No Data	No Data	0.000	0.000
10	No Data	No Data	No Data	No Data	0.000	0.000
11	No Data	No Data	No Data	No Data	0.000	0.000
12	No Data	No Data	No Data	No Data	1.758	0.000
13	No Data	No Data	No Data	No Data	3.409	0.000
14	No Data	No Data	No Data	No Data	3.397	0.000
15	No Data	No Data	No Data	No Data	3.238	0.000
16	No Data	No Data	No Data	No Data	3.326	0.000
17	No Data	No Data	No Data	No Data	2.394	0.000
18	No Data	No Data	No Data	No Data	1.897	0.063
19	No Data	No Data	No Data	No Data	1.936	0.157
20	No Data	No Data	No Data	No Data	1.988	0.370
21	No Data	No Data	No Data	No Data	1.641	0.533
22	No Data	No Data	No Data	No Data	1.285	0.875
23	No Data	No Data	No Data	No Data	1.377	0.693
24	No Data	No Data	No Data	No Data	0.018	0.209
25	No Data	No Data	No Data	No Data	0.013	0.091
26	No Data	No Data	No Data	No Data	0.015a	0.050
27	No Data	No Data	No Data	No Data	0.016a	0.038
28	No Data	No Data	No Data	No Data	0.006a	0.040
29	No Data	No Data	No Data	No Data	NA	0.044
30	No Data	No Data	No Data	No Data	NA	0.158
31	No Data	NA	No Data	No Data	NA	0.418
Mo. Avg. (cfs)	No Data	No Data	No Data	No Data	1.155	0.139

**Monthly Discharge**

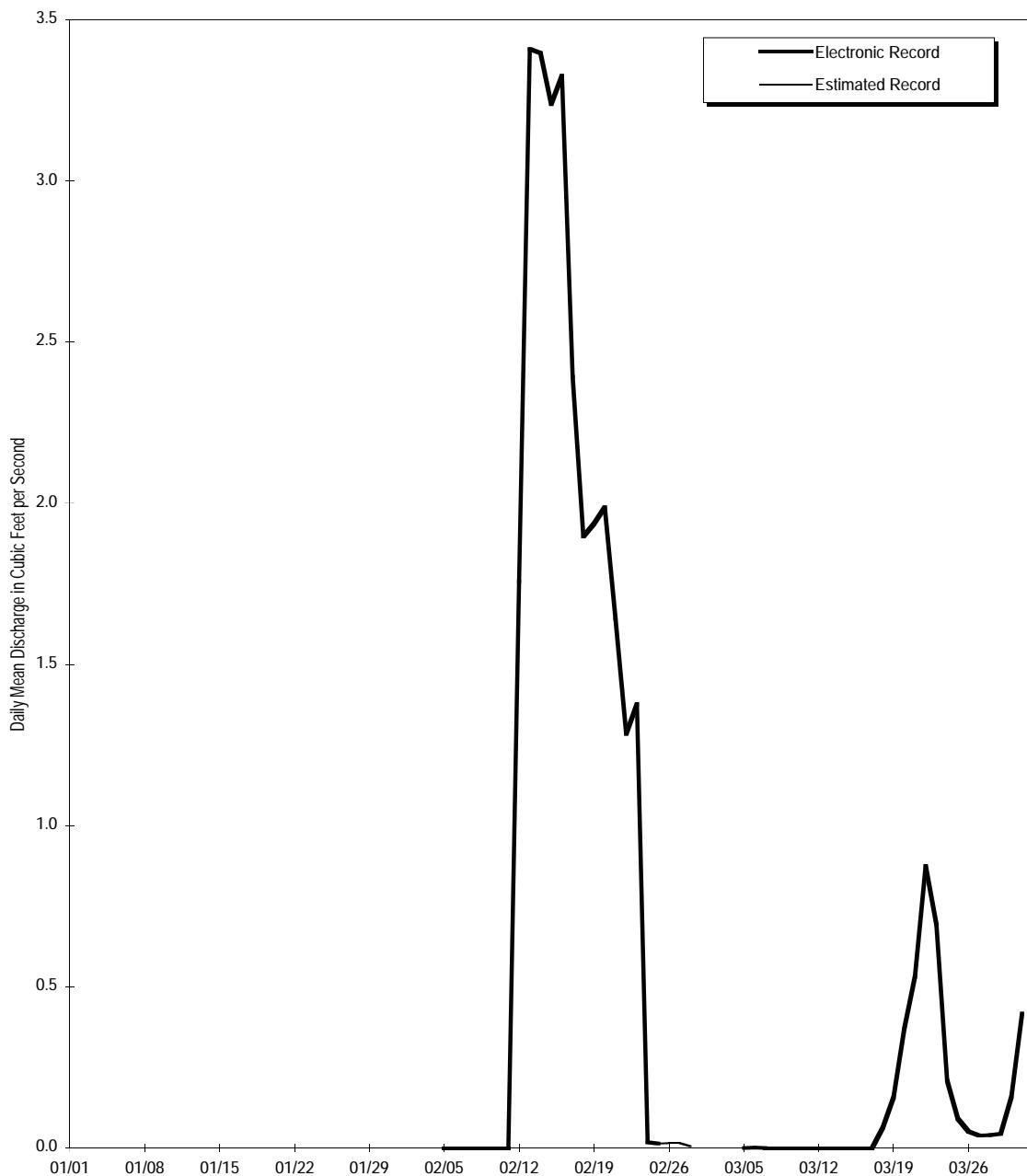
Cubic Feet	0	0	0	0	2,394,439	323,274
Gallons	0	0	0	0	17,911,650	2,418,255
Acre Feet	0.00	0.00	0.00	0.00	54.96	7.42

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b No data or poor data because of winter icing conditions.

Gaging Station GS34 is located on Walnut Creek upstream of the confluence with McKay Ditch. This station is a RFCA Source Location station monitoring water discharged from Ponds A-4, B-5, and the Landfill Pond as well as runoff from the No Name Gulch and upper Walnut Creek drainage basins. This station collects samples for selected radionuclides using continuous, flow-paced sampling.



**Figure 4-14 Mean Daily Discharge at Gaging Station GS34, Water Year 1998  
(January, February, March 1998)**

**Table 4-15 Gaging Station GS35: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.000	0.397	0.024	0.000	0.000	0.000
2	0.000	0.131	0.016	0.000	0.000	0.000
3	0.000	0.048	0.013	0.000	0.000	0.000
4	0.000	0.020	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.017	0.000	0.000	0.000	0.000
11	0.000	0.126	0.000	0.000	0.000	0.000
12	0.000	0.095	0.000	0.000	0.000	0.011
13	0.000	0.231	0.000	0.000	0.000	0.006
14	0.000	0.216	0.000	0.000	0.000	0.000
15	0.000	0.984	0.000	0.000	0.000	0.000
16	0.000	0.745	0.000	0.000	0.000	0.000
17	0.000	0.150	0.040	0.000a	0.000	0.000
18	0.000	0.100	0.030	0.000a	0.000	0.062
19	0.000	0.301	0.009	0.000	0.000	0.053
20	0.000	0.254	0.000a	0.000a	0.000	0.405
21	0.000	0.185	0.000	0.000a	0.000	1.008
22	0.000	0.086	0.000	0.000	0.000	3.235
23	0.000	0.054	0.000	0.000	0.000	3.838
24	0.000	0.028	0.000	0.000	0.000	1.050
25	0.000	0.019	0.000	0.000	0.000	0.444
26	0.000	0.011	0.000	0.000	0.000	0.217
27	0.351	0.014	0.000	0.000	0.000	0.118
28	0.424	0.038	0.000	0.000	0.000	0.077
29	0.533	0.092	0.000	0.000	NA	0.048
30	2.004	0.049	0.000	0.000	NA	0.090
31	0.859	NA	0.000	0.000	NA	0.788
Mo. Avg. (cfs)	0.135	0.146	0.004	0.000	0.000	0.369

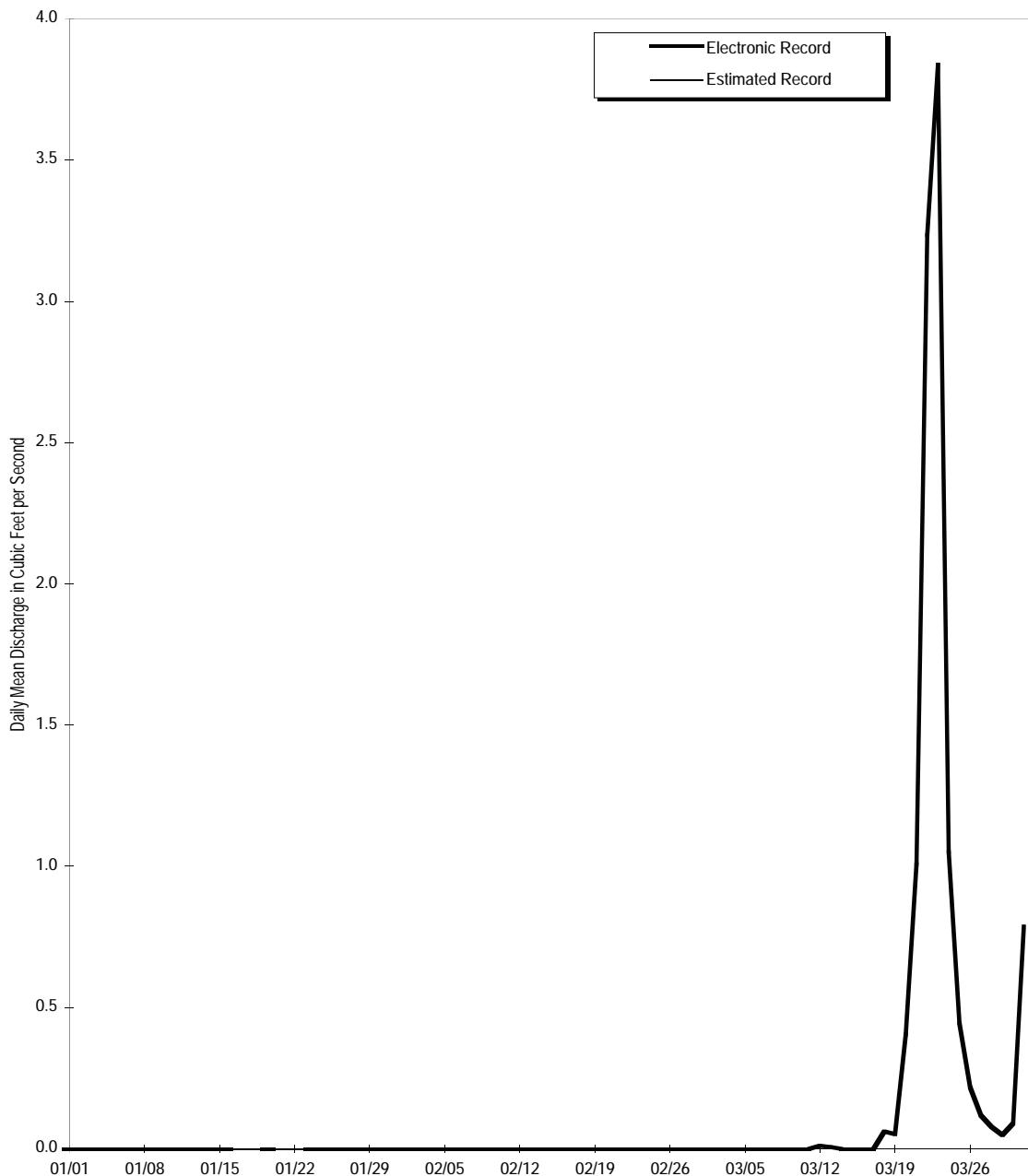
**Monthly Discharge**

Cubic Feet	360,436	379,247	11,430	0	0	989,168
Gallons	2,696,246	2,836,964	85,500	0	0	7,399,493
Acre Feet	8.27	8.71	0.26	0.00	0.00	22.70

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS35 is located on McKay Ditch at the confluence with Walnut Creek. This station is a RFCA Source Location station monitoring runoff from the McKay Ditch drainage basin reaching Walnut Creek. This station collects samples for selected radionuclides using continuous flow-paced sampling.



**Figure 4-15 Mean Daily Discharge at Gaging Station GS35, Water Year 1998  
(January, February, March 1998)**

**Table 4-16 Gaging Station GS37: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	No Data	a	0.0000	0.000	0.000	0.000
2	No Data	0.0000	0.0020	0.000	0.000	0.000
3	No Data	0.0000	0.0043	0.000	0.000	0.000
4	No Data	0.0000	0.0000	0.000	0.000	0.000
5	No Data	0.0000	0.0000	0.000	0.000	0.000
6	No Data	0.0000	0.0000	0.000	0.000	0.000
7	No Data	0.0000	0.0000	0.000	0.000	0.003c
8	No Data	0.0007	0.0000	0.000	0.000	0.000c
9	No Data	0.0068	0.0000	0.000	0.000	0.000
10	No Data	b	0.0000	0.000	0.000	0.000
11	No Data	b	0.0000	0.000	0.000	0.000
12	No Data	b	0.0003	0.000	0.000	0.000
13	No Data	0.0003	0.0001	0.000	0.000	0.000
14	No Data	b	0.0000	0.000	0.000	0.000
15	No Data	b	0.0000	0.000	0.000	0.000
16	No Data	0.0000	0.0000	0.000	0.000	0.000
17	No Data	0.0000	0.0000	0.000	0.000	0.004
18	No Data	0.0000	0.0000	0.000	0.000	0.015
19	No Data	0.0000	0.0000	0.000	0.000	0.008c
20	No Data	0.0000	0.0000	0.000	0.000	0.006c
21	No Data	0.0000	0.0000	0.000	0.000	0.008c
22	No Data	0.0000	0.0000	0.000	0.000	0.005
23	No Data	0.0000	0.0000	0.000	0.000	0.001
24	No Data	0.0000	0.0000	0.000	0.000	0.000
25	No Data	0.0000	0.0000	0.000	0.000	0.000
26	No Data	0.0000	0.0000	0.000	0.000	0.000
27	No Data	0.0024	0.0000	0.000	0.000	0.000
28	0.0095	0.0009	0.0000	0.000	0.000	0.000
29	0.0094	0.0000	0.0000	0.000	NA	0.000
30	a	0.0000	0.0000	0.000	NA	0.008
31	a	NA	0.0000	0.000	NA	b
Mo. Avg. (cfs)	0.009	0.000	0.000	0.000	0.000	0.002

**Monthly Discharge**

Cubic Feet	1,631	961	582	65	3	5,108
Gallons	12,201	7,186	4,354	486	26	38,214
Acre Feet	0.04	0.02	0.01	0.00	0.00	0.12

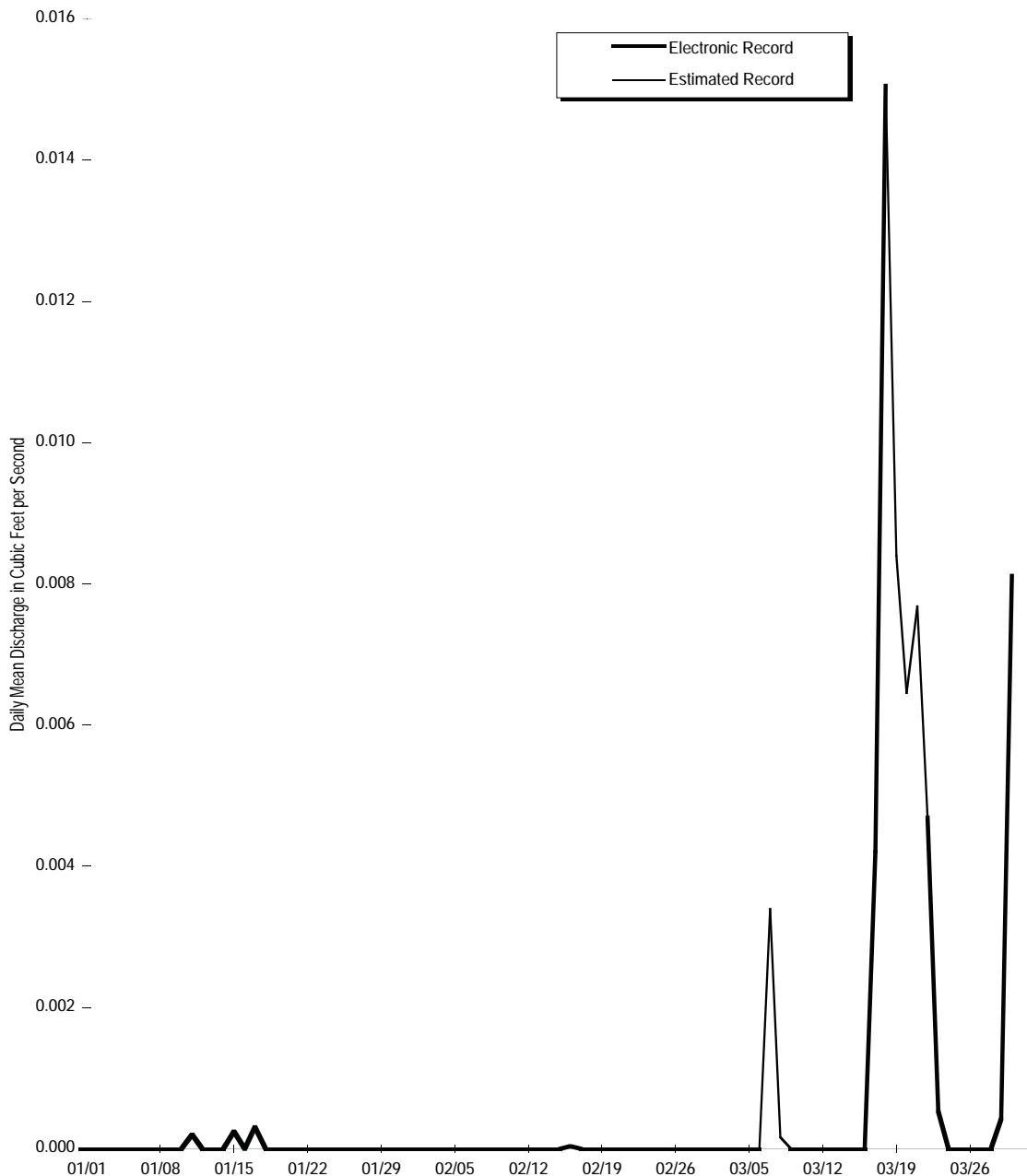
Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Bad data because of equipment failures.

b No data or poor data because of winter icing conditions.

c Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS37 is located in the Central Avenue Ditch north of Building 443. This station is a RFCA Performance Monitoring station monitoring runoff from the Building 123 area. Storm event samples are collected for selected radionuclides and water quality parameters.



**Figure 4-16 Mean Daily Discharge at Gaging Station GS37, Water Year 1998  
(January, February, March 1998)**

**Table 4-17 Gaging Station GS38: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	No Data	No Data	No Data	No Data	0.000	0.000
2	No Data	No Data	No Data	No Data	0.000	0.000
3	No Data	No Data	No Data	No Data	0.000	0.000
4	No Data	No Data	No Data	No Data	0.000	0.000
5	No Data	No Data	No Data	No Data	0.000	0.000
6	No Data	No Data	No Data	No Data	0.000	0.007
7	No Data	No Data	No Data	No Data	0.000	0.067a
8	No Data	No Data	No Data	No Data	0.000	0.067a
9	No Data	No Data	No Data	No Data	0.000	0.002a
10	No Data	No Data	No Data	No Data	0.000	0.003a
11	No Data	No Data	No Data	No Data	0.000	0.006
12	No Data	No Data	No Data	No Data	0.000	0.001
13	No Data	No Data	No Data	No Data	0.000	0.000
14	No Data	No Data	No Data	No Data	0.000	0.000
15	No Data	No Data	No Data	No Data	0.000	0.000
16	No Data	No Data	No Data	No Data	0.000	0.000
17	No Data	No Data	No Data	No Data	0.000	0.050
18	No Data	No Data	No Data	No Data	0.000	0.248
19	No Data	No Data	No Data	No Data	0.000	0.289
20	No Data	No Data	No Data	No Data	0.000	0.194
21	No Data	No Data	No Data	No Data	0.000	0.184
22	No Data	No Data	No Data	No Data	0.000	0.124
23	No Data	No Data	No Data	No Data	0.000	0.019
24	No Data	No Data	No Data	No Data	0.000	0.000
25	No Data	No Data	No Data	No Data	0.000	0.000
26	No Data	No Data	No Data	No Data	0.000	0.000
27	No Data	No Data	No Data	No Data	0.000	0.000
28	No Data	No Data	No Data	0.000	0.000	0.000
29	No Data	No Data	No Data	0.000	NA	0.000
30	No Data	No Data	No Data	0.000	NA	0.116
31	No Data	NA	No Data	0.000	NA	0.141
<b>Mo. Avg. (cfs)</b>	No Data	No Data	No Data	0.000	0.000	0.049

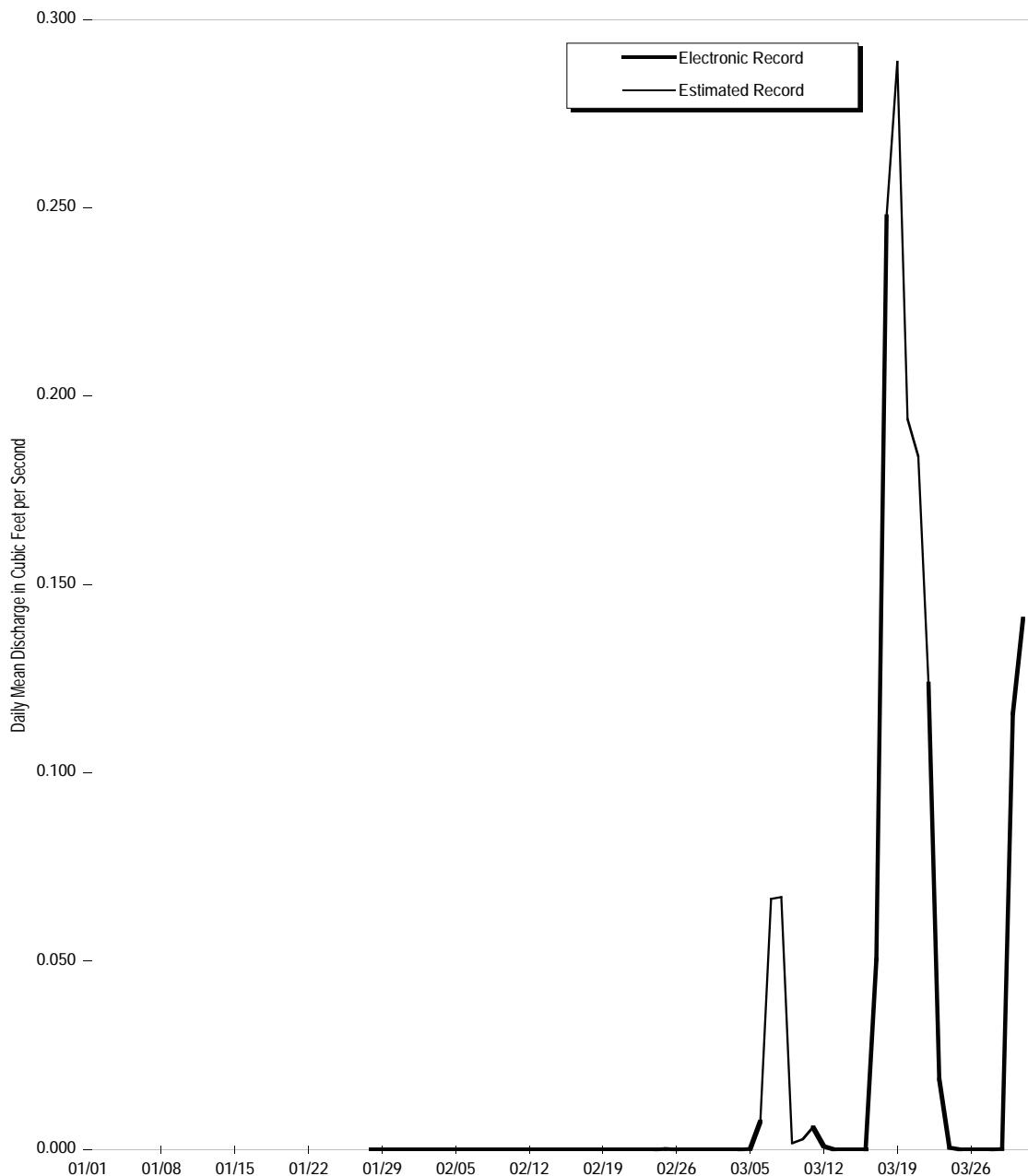
**Monthly Discharge**

Cubic Feet	0	0	0	0	0	131,039
Gallons	0	0	0	0	0	980,242
Acre Feet	0.00	0.00	0.00	0.00	0.00	3.01

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS38 is located in Central Avenue Ditch northwest of Building 889. This location is a RFCA Source Location station monitoring water flowing from a drainage basin in the southwest quadrant of the Industrial Area to South Walnut Creek. This station collects samples for selected radionuclides using continuous, flow-paced sampling.



**Figure 4-17 Mean Daily Discharge at Gaging Station GS38, Water Year 1998  
(January, February, March 1998)**

**Table 4-18 Gaging Station GS39: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	No Data	No Data	No Data	No Data	0.000	0.000
2	No Data	No Data	No Data	No Data	0.000	0.000
3	No Data	No Data	No Data	No Data	0.000	0.000
4	No Data	No Data	No Data	No Data	0.000	0.000
5	No Data	No Data	No Data	No Data	0.000	0.000
6	No Data	No Data	No Data	No Data	0.000	b
7	No Data	No Data	No Data	No Data	0.000	0.051
8	No Data	No Data	No Data	No Data	0.000	0.001
9	No Data	No Data	No Data	No Data	0.000	0.001
10	No Data	No Data	No Data	No Data	0.000	0.000
11	No Data	No Data	No Data	No Data	0.000	0.000
12	No Data	No Data	No Data	No Data	0.000	0.001
13	No Data	No Data	No Data	No Data	0.000	0.000
14	No Data	No Data	No Data	No Data	0.000	0.000
15	No Data	No Data	No Data	0.002a	0.000	0.000
16	No Data	No Data	No Data	0.000	0.001	0.000
17	No Data	No Data	No Data	0.002a	0.000	0.012
18	No Data	No Data	No Data	0.000a	0.000	0.009
19	No Data	No Data	No Data	b	0.000	0.076
20	No Data	No Data	No Data	b	0.000	0.039
21	No Data	No Data	No Data	0.000	0.000	0.026
22	No Data	No Data	No Data	0.000	0.000	0.018
23	No Data	No Data	No Data	0.000	0.000	0.009
24	No Data	No Data	No Data	0.000	0.000	0.003
25	No Data	No Data	No Data	0.000	0.000	0.001
26	No Data	No Data	No Data	0.000	0.000	0.002
27	No Data	No Data	No Data	0.000	0.000	0.000
28	No Data	No Data	No Data	0.000	0.000	0.000
29	No Data	No Data	No Data	0.000	NA	0.000
30	No Data	No Data	No Data	0.000	NA	0.013
31	No Data	NA	No Data	0.000	NA	0.026
<b>Mo. Avg. (cfs)</b>	No Data	No Data	No Data	0.000	0.000	0.010

**Monthly Discharge**

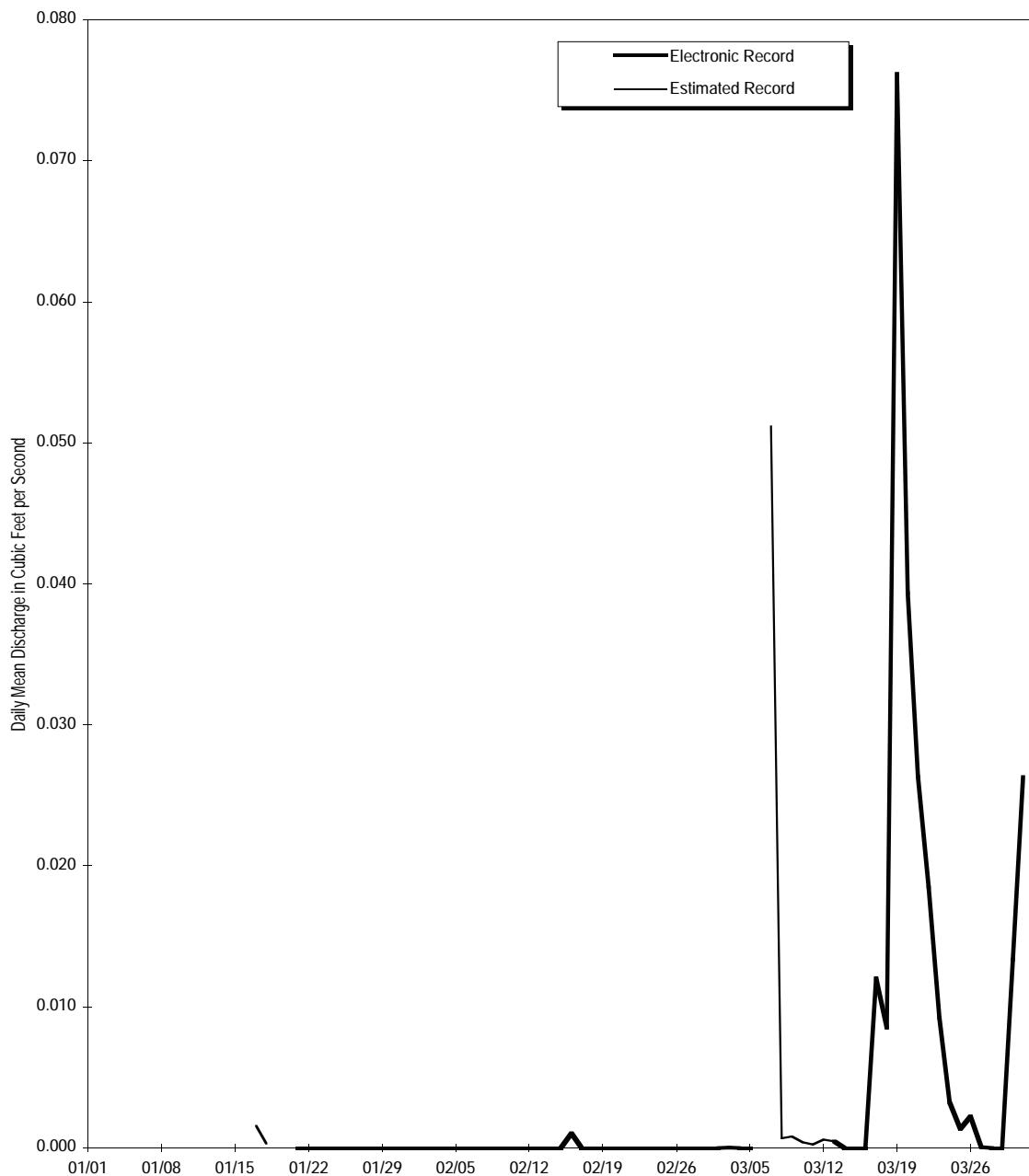
Cubic Feet	10	0	0	303	90	25,157
Gallons	0	0	0	2,270	677	188,188
Acre Feet	0.00	0.00	0.00	0.01	0.00	0.58

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b No data or poor data because of winter icing conditions.

Gaging Station GS39 is located in the drainage ditch northwest of the 904 Pad. This location is a RFCA Source Location station monitoring water flowing from the area of the 903 Pad as well as part of the 904 Pad and contractor yard to South Walnut Creek. This station collects samples for selected radionuclides using continuous, flow-paced sampling.



**Figure 4-18 Mean Daily Discharge at Gaging Station GS39, Water Year 1998  
(January, February, March 1998)**

**Table 4-19 Gaging Station GS40: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	No Data	No Data	No Data	No Data	No Data	No Data
2	No Data	No Data	No Data	No Data	No Data	No Data
3	No Data	No Data	No Data	No Data	No Data	No Data
4	No Data	No Data	No Data	No Data	No Data	0.043a
5	No Data	No Data	No Data	No Data	No Data	0.051a
6	No Data	No Data	No Data	No Data	No Data	0.046
7	No Data	No Data	No Data	No Data	No Data	0.078
8	No Data	No Data	No Data	No Data	No Data	0.092
9	No Data	No Data	No Data	No Data	No Data	0.069
10	No Data	No Data	No Data	No Data	No Data	0.043a
11	No Data	No Data	No Data	No Data	No Data	0.051a
12	No Data	No Data	No Data	No Data	No Data	0.050a
13	No Data	No Data	No Data	No Data	No Data	0.041a
14	No Data	No Data	No Data	No Data	No Data	0.035a
15	No Data	No Data	No Data	No Data	No Data	0.033a
16	No Data	No Data	No Data	No Data	No Data	0.034a
17	No Data	No Data	No Data	No Data	No Data	0.101a
18	No Data	No Data	No Data	No Data	No Data	0.133
19	No Data	No Data	No Data	No Data	No Data	0.215a
20	No Data	No Data	No Data	No Data	No Data	0.251
21	No Data	No Data	No Data	No Data	No Data	0.234
22	No Data	No Data	No Data	No Data	No Data	0.304
23	No Data	No Data	No Data	No Data	No Data	0.122
24	No Data	No Data	No Data	No Data	No Data	0.069
25	No Data	No Data	No Data	No Data	No Data	0.060
26	No Data	No Data	No Data	No Data	No Data	0.059
27	No Data	No Data	No Data	No Data	No Data	0.055
28	No Data	No Data	No Data	No Data	No Data	0.055
29	No Data	No Data	No Data	No Data	NA	0.067
30	No Data	No Data	No Data	No Data	NA	0.178
31	No Data	NA	No Data	No Data	NA	0.206
Mo. Avg. (cfs)	No Data	No Data	No Data	No Data	No Data	0.099

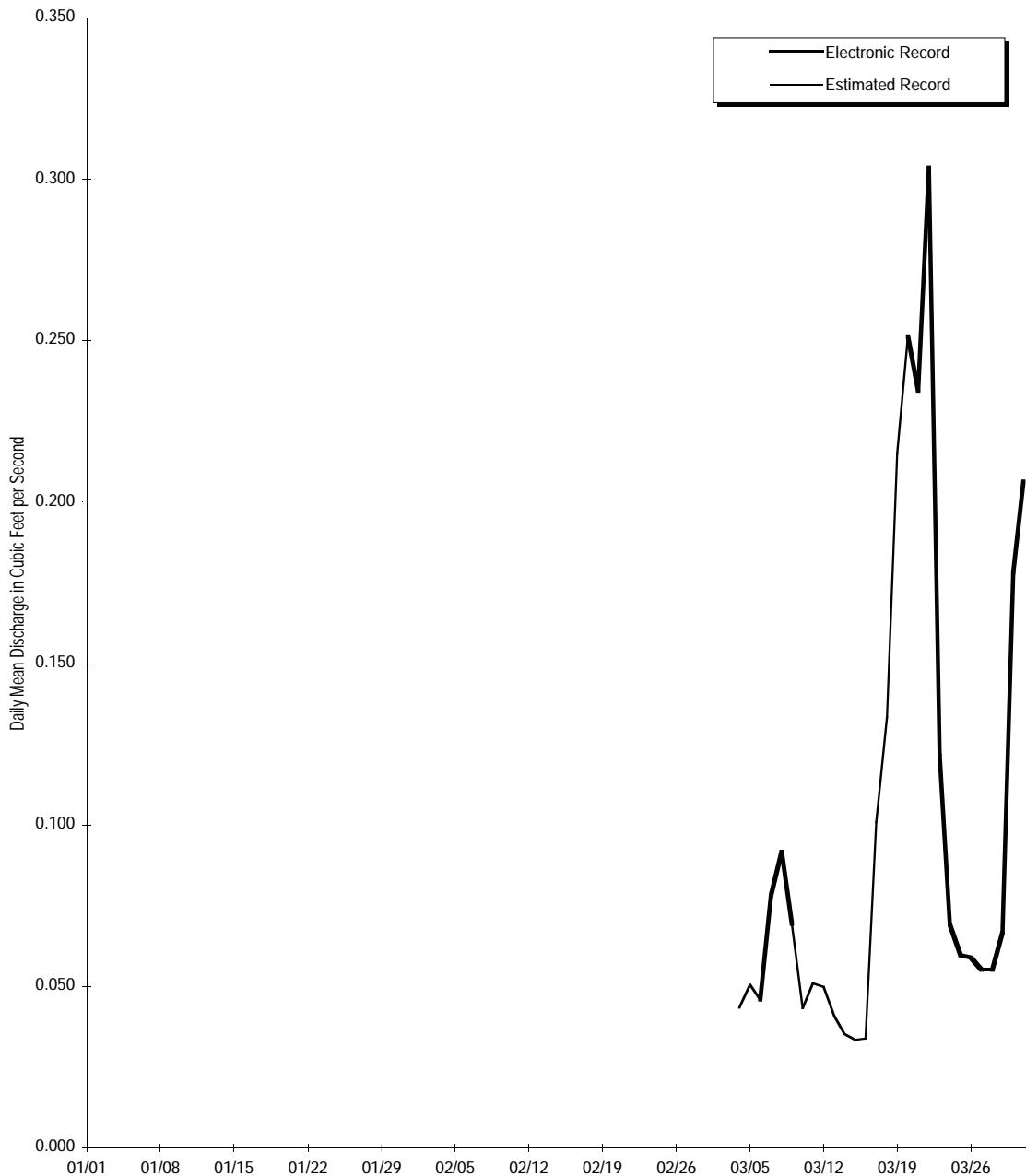
**Monthly Discharge**

Cubic Feet	0	0	0	0	0	239,951
Gallons	0	0	0	0	0	1,794,960
Acre Feet	0.00	0.00	0.00	0.00	0.00	5.51

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station GS40 is located on the concrete spillway east of Tenth Street, south of Building 997. This location is a RFCA Source Location station monitoring water flowing from the 700 area to South Walnut Creek. This station collects samples for selected radionuclides using continuous, flow-paced sampling.



**Figure 4-19 Mean Daily Discharge at Gaging Station GS40, Water Year 1998  
(January, February, March 1998)**

**Table 4-20 Gaging Station SW022 Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.0000	0.0003	0.0000	0.066	0.000	0.000
2	0.0000	0.0000	0.0000	0.016	0.000	0.000
3	0.0000	a	0.0000b	0.000	0.000	0.000
4	0.0000	0.0000	0.0000b	0.000	0.000	0.000
5	0.0000	0.0000	0.0000	0.000	0.000	0.000
6	0.0000	0.0000	0.0000	0.000	0.000	0.000
7	0.0000	0.0000	0.0000	0.000	0.000	0.000
8	0.0000	0.0000	0.0000	0.000	0.000	a
9	0.0000	0.1010	0.0000	0.000	0.000	a
10	0.0000	0.0644b	0.0000	0.000	0.000	a
11	0.0000	a	0.0000	0.000	0.000	a
12	0.1284	a	0.0000	0.000	0.000	a
13	0.0000	a	0.0000	0.000	0.000	0.000
14	0.0000	0.0000	0.0000	0.000	0.000	0.000
15	0.0000	0.0000	0.0000	0.000	0.000	0.000
16	0.0000	0.0000	0.0000	0.000	0.000	0.000
17	0.0000	0.0000	0.0000	0.000	0.000	0.062
18	0.0000	0.0000	0.0000	0.000	0.000	0.122
19	0.0000	0.0000	0.0000	0.000	0.000	0.634
20	0.0000	0.0000	0.0000	0.000	0.000	0.393b
21	0.0000	0.0000	0.0000	0.000	0.000	0.322
22	0.0000	0.0000	0.0000	0.000	0.000	0.266
23	0.0000	0.0000	0.0000	0.000	0.000	0.087
24	0.2605	0.0022	0.0000	0.000	0.000	0.020
25	0.0002	0.0000	0.0000	0.000	0.000	0.007
26	a	0.0000	0.0000	0.000	0.000	0.004
27	a	0.0000	0.0000	0.000	0.000	0.020
28	0.3028	0.0413	0.0000	0.000	0.000	0.001
29	0.1483	0.0000	0.0000	0.000	NA	0.000
30	0.0943	0.0000	0.0000	0.000	NA	0.205
31	0.0600	NA	0.0000	0.000	NA	0.271
Mo. Avg. (cfs)	0.034	0.008	0.000	0.003	0.000	0.093

**Monthly Discharge**

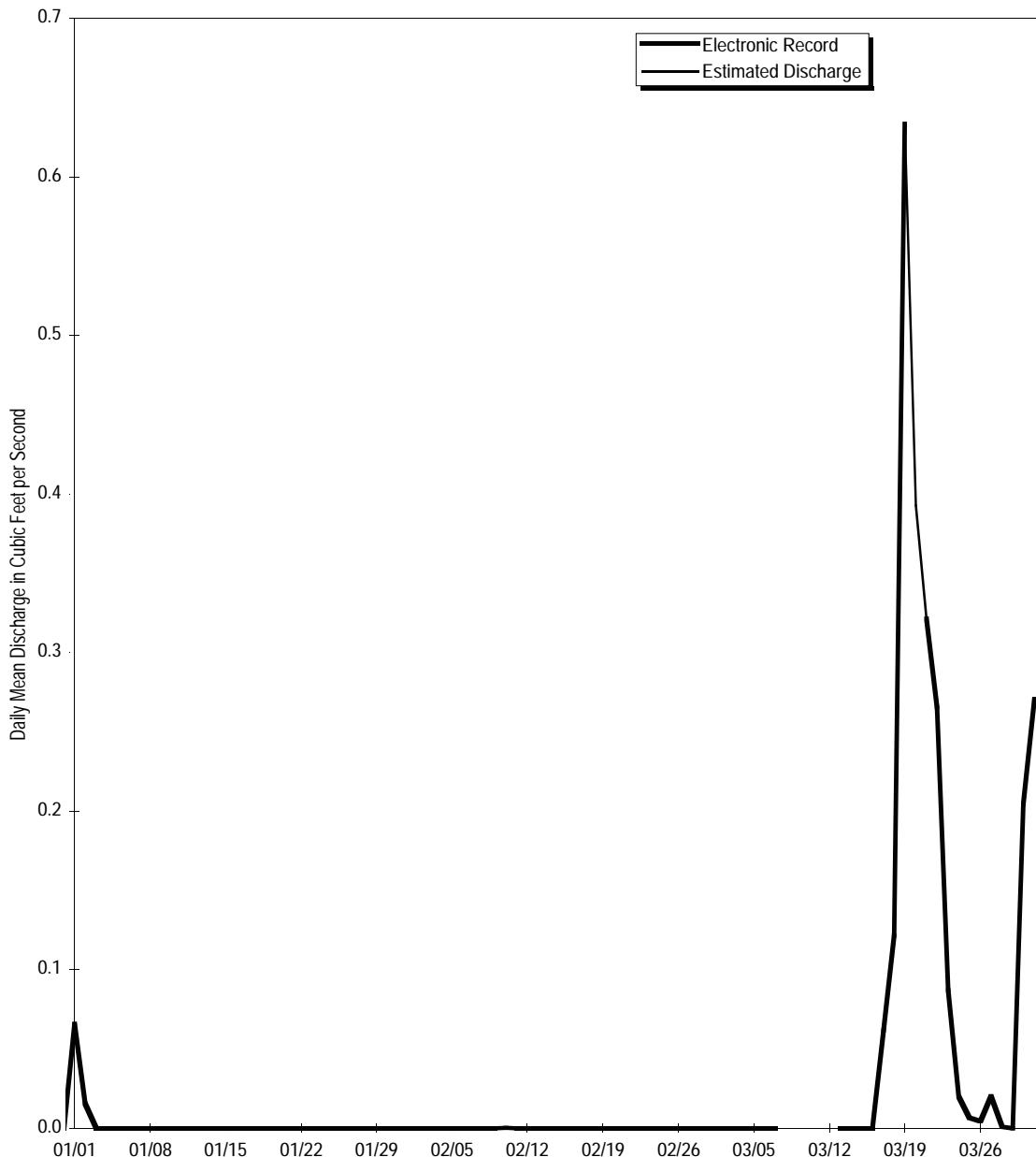
Cubic Feet	85,934	18,073	0	7,036	25	208,437
Gallons	642,827	135,199	0	52,631	185	1,559,219
Acre Feet	1.97	0.41	0.00	0.16	0.00	4.78

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a No data or poor data because of winter icing conditions.

b Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station SW022 is located  $39^{\circ} 53' 30''\text{N}$ ,  $105^{\circ} 11' 30''\text{W}$ , at the Central Avenue Ditch at the Inner East Gate (See Section 4 Map). This location is a RFCA New Source Detection Location and monitors water in the Central Avenue Ditch entering the B-Series Ponds and South Walnut Creek. Storm event samples are collected for selected radionuclides.



**Figure 4-20 Mean Daily Discharge at Gaging Station SW022, Water Year 1998  
(January, February, March 1998)**

**Table 4-21 Gaging Station SW027: Mean Daily Discharge (Cubic Feet per Second)**

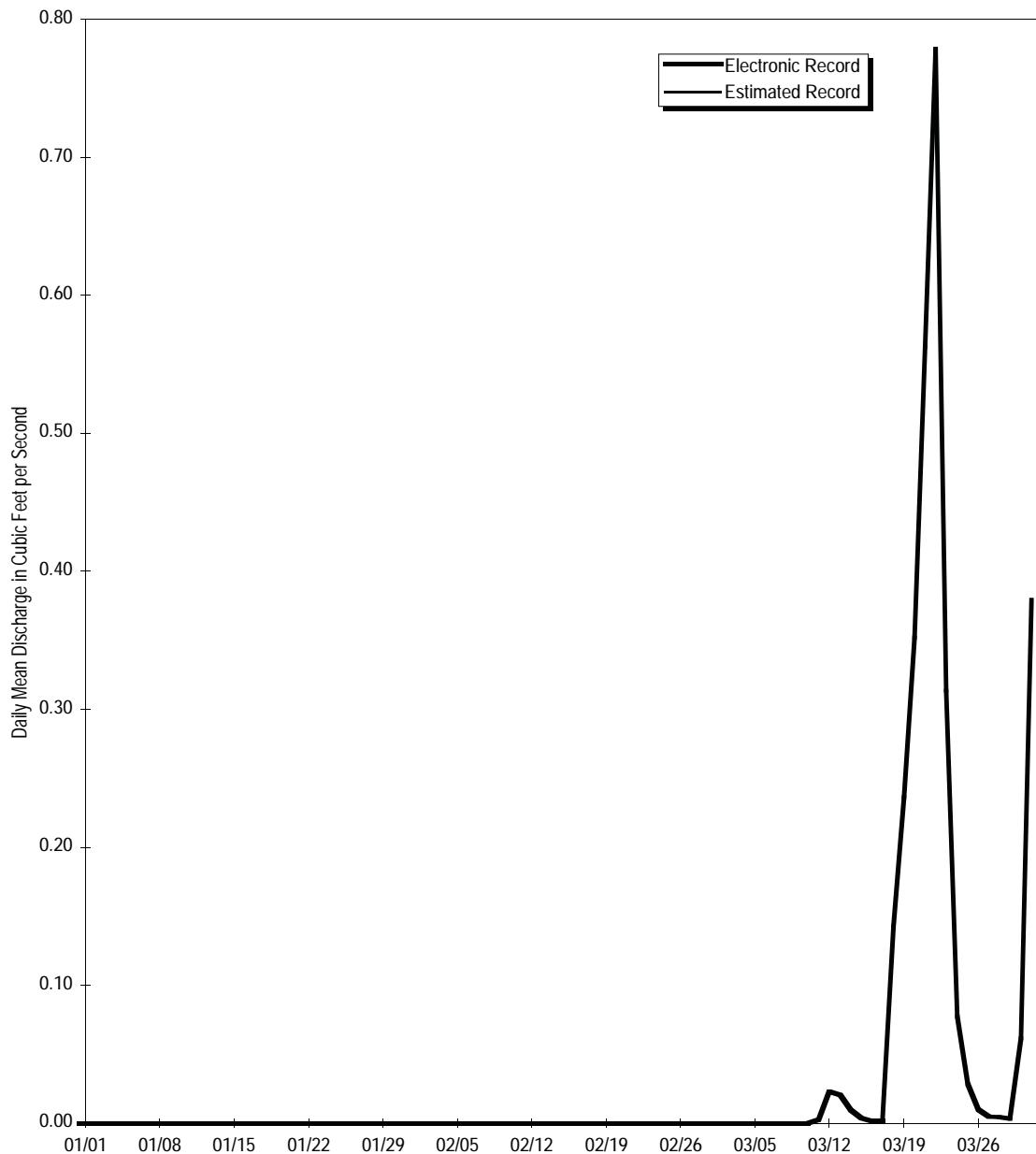
Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.000	0.043	0.002	0.000	0.000	0.000
2	0.000	0.007	0.001	0.000	0.000	0.000
3	0.000	0.003	0.001	0.000	0.000	0.000
4	0.000	0.001	0.000	0.000	0.000	0.000
5	0.000	0.001	0.000	0.000	0.000	0.000
6	0.000	0.000	0.000	0.000	0.000	0.000
7	0.000	0.000	0.000	0.000	0.000	0.000
8	0.000	0.000	0.000	0.000	0.000	0.000
9	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.045	0.000	0.000	0.000	0.000
11	0.000	0.036	0.000	0.000	0.000	0.002
12	0.000	0.044	0.000	0.000	0.000	0.023
13	0.025	0.060	0.000	0.000	0.000	0.020
14	0.001	0.043	0.000	0.000	0.000	0.009
15	0.000	0.053	0.000	0.000	0.000	0.004
16	0.000	0.011	0.000	0.000	0.000	0.002
17	0.000	0.009	0.000	0.000	0.000	0.002
18	0.000	0.027	0.000	0.000	0.000	0.143
19	0.000	0.020	0.000	0.000	0.000	0.236
20	0.000	0.035	0.000	0.000	0.000	0.352
21	0.000	0.019	0.000	0.000	0.000	0.563
22	0.000	0.006	0.000	0.000	0.000	0.779
23	0.000	0.003	0.000	0.000	0.000	0.313
24	0.000	0.001	0.000	0.000	0.000	0.077
25	0.065	0.001	0.000	0.000	0.000	0.028
26	0.284	0.001	0.000	0.000	0.000	0.010
27	0.467	0.001	0.000	0.000	0.000	0.005
28	0.469	0.034	0.000	0.000	0.000	0.004
29	0.371	0.015	0.000	0.000	NA	0.003
30	0.444	0.003	0.000	0.000	NA	0.062
31	0.117	NA	0.000	0.000	NA	0.379
Mo. Avg. (cfs)	0.072	0.017	0.000	0.000	0.000	0.097

**Monthly Discharge**

Cubic Feet	193,764	45,082	379	0	0	260,626
Gallons	1,449,458	337,235	2,837	0	0	1,949,618
Acre Feet	4.45	1.03	0.01	0.00	0.00	5.98

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

Gaging Station SW027 is located  $39^{\circ} 53' 12''N$ ,  $105^{\circ} 11' 4''W$ , at the South Interceptor Ditch above Pond C-2 (See Section 4 Map). This station is a RFCA Action Level Framework and a New Source Detection Location and monitors water in the South Interceptor Ditch entering Pond C-2. This station collects samples for selected radionuclides, metals, and water quality parameters using continuous flow-paced sampling.



**Figure 4-21 Mean Daily Discharge at Gaging Station SW027, Water Year 1998  
(January, February, March 1998)**

**Table 4-22 Gaging Station SW091: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.0000	0.0000	a	0.0000	a	0.0000
2	0.0000	0.0000	a	0.0000	a	0.0000
3	0.0000	0.0000	a	a	a	0.0000
4	0.0000	0.0000	a	a	a	0.0000
5	0.0000	0.0000	a	a	a	0.0000
6	0.0000	0.0000	a	0.0000	a	0.0000
7	0.0000	0.0000	a	0.0000	a	0.0000
8	0.0000	0.0000	a	a	a	0.0000
9	0.0000	0.0000	a	a	a	0.0000
10	0.0000	0.0000	a	a	a	0.0000
11	0.0000	0.0000	a	a	a	0.0000
12	0.0000	0.0002	0.0000	a	a	0.0000
13	0.0000	0.0000	0.0000	a	0.0000	0.0000
14	0.0000	a	0.0000	a	0.0000	0.0000
15	0.0000	0.0000	0.0000	a	0.0000	0.0000
16	0.0000	0.0000	0.0000	a	a	0.0000
17	0.0000	0.0000	0.0000	a	a	0.0000
18	0.0000	0.0000	0.0000	a	a	0.0000
19	0.0000	0.0000	0.0000	a	0.0000	0.0000
20	0.0000	0.0000	0.0000	a	0.0000	0.0000
21	0.0000	a	0.0000	a	0.0000	0.0000
22	0.0000	0.0000	0.0000	a	0.0000	0.0000
23	0.0000	a	0.0000	a	0.0000	0.0000
24	0.0000	a	0.0000	a	0.0000	0.0012
25	0.0000	a	0.0000	a	0.0000	0.0002
26	0.0002	a	0.0000	a	0.0000	0.0001
27	0.0030	a	0.0000	a	0.0000	0.0000
28	0.0050	a	0.0000	a	0.0000	0.0000
29	0.0081	a	0.0000	a	NA	0.0000
30	0.0045	a	a	a	NA	0.0002
31	0.0000	NA	a	a	NA	0.0021
Mo. Avg. (cfs)	0.0007	0.0000	0.0000	0.0000	0.0000	0.0001

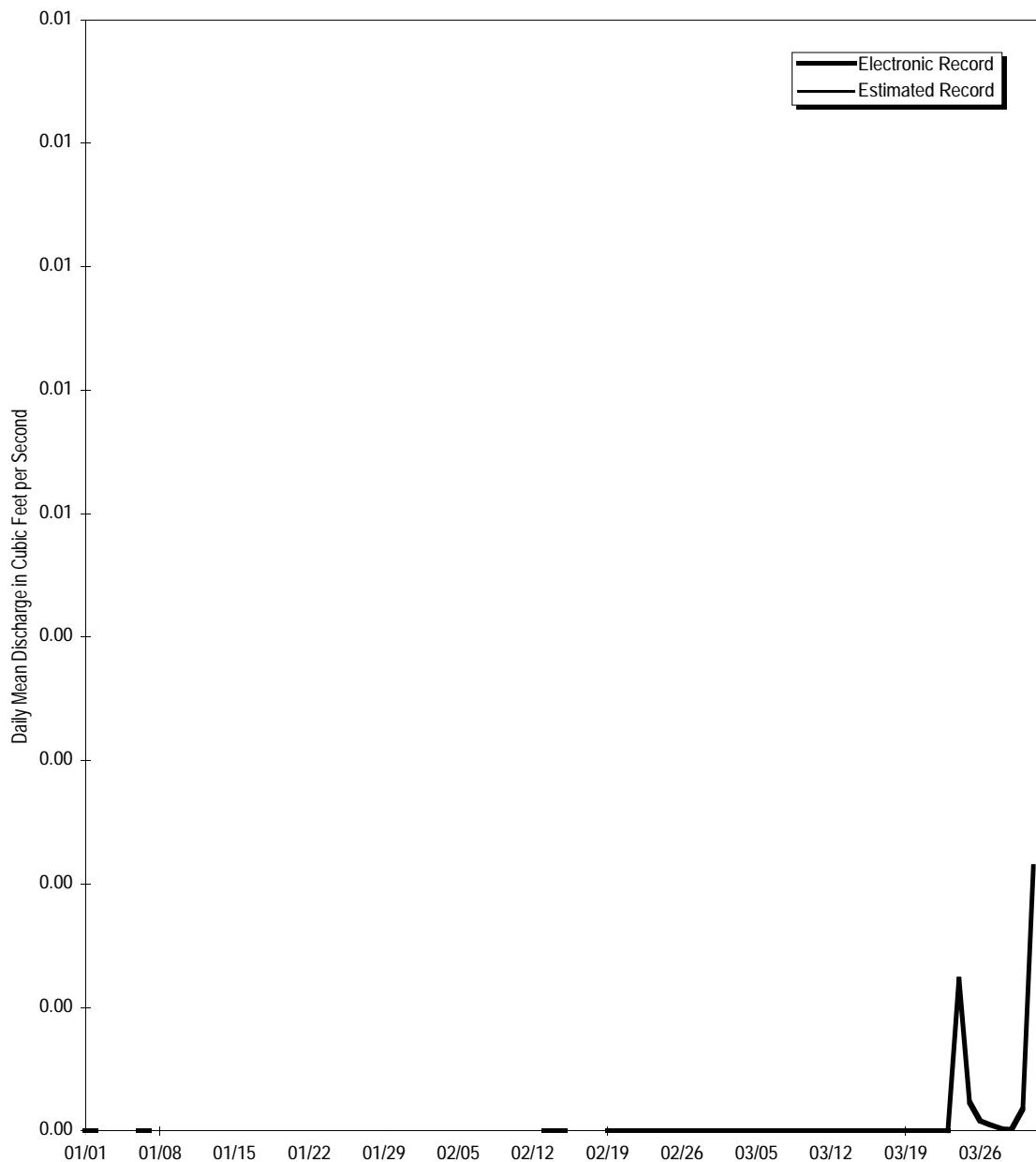
**Monthly Discharge**

Cubic Feet	1,793	19	0	0	0	342
Gallons	13,416	143	0	0	0	2,561
Acre Feet	0.04	0.00	0.00	0.00	0.00	0.01

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a No data or poor data because of winter icing conditions.

Gaging Station SW091 is located at State Plane 2086064; 751322, along the drainage NE of the Solar Ponds draining to the A-Series Ponds (See Section 4 Map). This location is a RFCA New Source Detection Location and monitors water draining from the area NE of the Solar Ponds. Storm event samples are collected for selected radionuclides.



**Figure 4-22 Mean Daily Discharge at Gaging Station SW091, Water Year 1998  
(January, February, March 1998)**

**Table 4-23 Gaging Station SW093: Mean Daily Discharge (Cubic Feet per Second)**

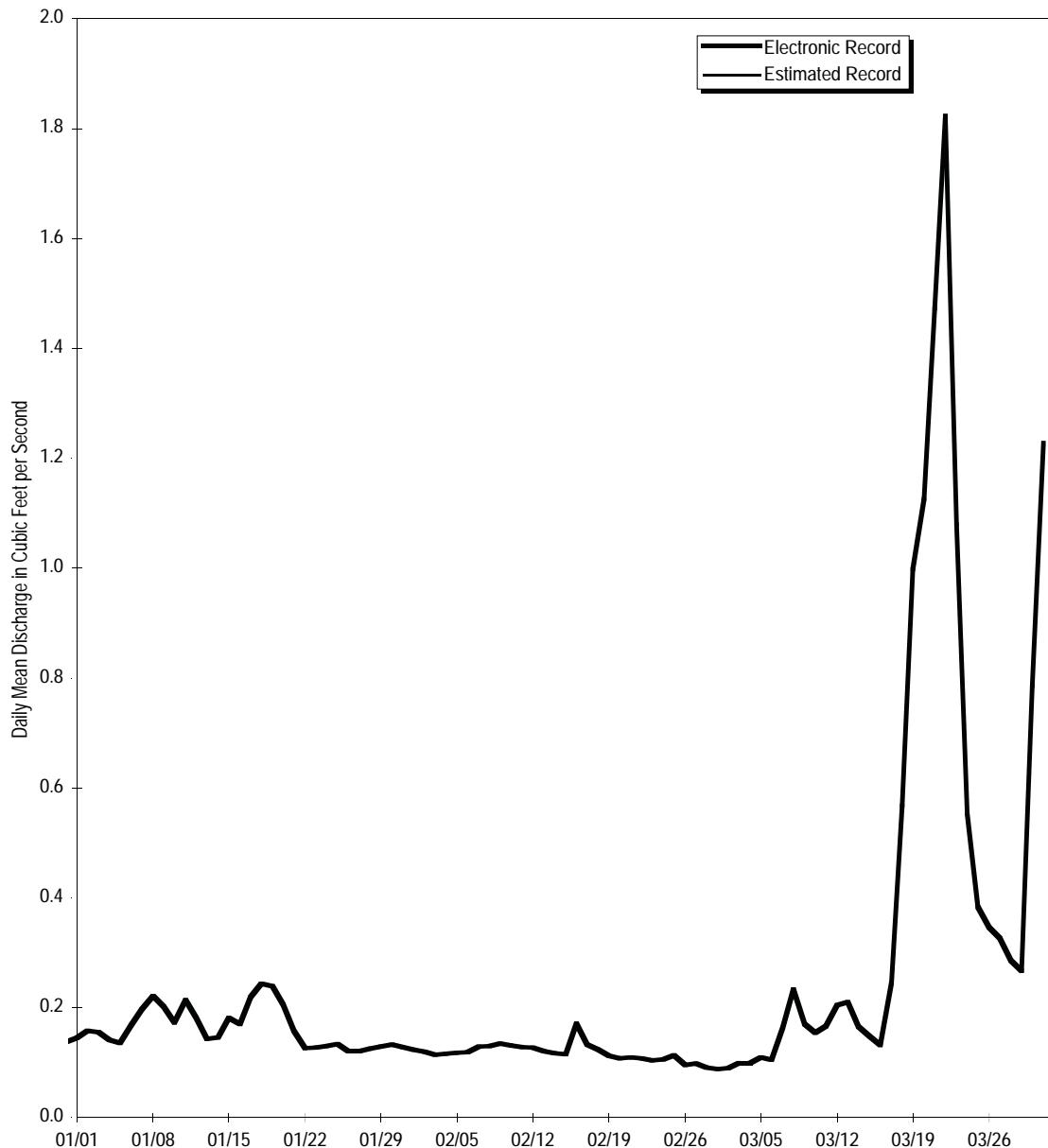
Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.075	0.371	0.240	0.145	0.124	0.089
2	0.076	0.279	0.271	0.158	0.120	0.090
3	0.080	0.219	0.349	0.156	0.114	0.099
4	0.076	0.167	0.272	0.142	0.116	0.100
5	0.075	0.139	0.286a	0.136	0.119	0.110
6	0.074	0.121	0.239a	0.168	0.119	0.105
7	0.071	0.113	0.231	0.197	0.129	0.164
8	0.079	0.132	0.258	0.222	0.130	0.233
9	0.075	0.510	0.266	0.202	0.135	0.170
10	0.075	0.531	0.258	0.173	0.131	0.155
11	0.075	0.341	0.228	0.214	0.129	0.167
12	0.474	0.484	0.208	0.181	0.128	0.205
13	0.125	0.362	0.210	0.144	0.121	0.211
14	0.104	0.472	0.243	0.146	0.117	0.166
15	0.097	0.305	0.264	0.181	0.116	0.148
16	0.091	0.284	0.238	0.170	0.171	0.132
17	0.088	0.306	0.251	0.220	0.133	0.246
18	0.092	0.306	0.246	0.244	0.124	0.568
19	0.097	0.340	0.217	0.239	0.112	0.998
20	0.101	0.347	0.195	0.206	0.108	1.125
21	0.100	0.278	0.180	0.158	0.110	1.472
22	0.100	0.243	0.171	0.127	0.108	1.823
23	0.122	0.226	0.164	0.128	0.104	1.079
24	0.636	0.226	0.166	0.130	0.106	0.553
25	0.533	0.248	0.189	0.134	0.114	0.384
26	1.320	0.235	0.198	0.121	0.096	0.346
27	1.593	0.274	0.194	0.121	0.099	0.327
28	1.242	0.480	0.167	0.125	0.091	0.286
29	1.094	0.291	0.168	0.130	NA	0.267
30	1.054	0.259	0.144	0.134	NA	0.786
31	0.610	NA	0.138	0.128	NA	1.228
Mo. Avg. (cfs)	0.339	0.296	0.221	0.164	0.119	0.446

Monthly Discharge						
Cubic Feet	907,511	768,011	591,817	439,099	287,162	1,195,367
Gallons	6,788,653	5,745,124	4,427,103	3,284,692	2,148,123	8,941,970
Acre Feet	20.83	17.63	13.58	10.08	6.59	27.44

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station SW093 is located  $39^{\circ} 53' 51''N$ ,  $105^{\circ} 11' 48''W$ , along North Walnut Creek at the 72" culvert 1000 feet above the Pond A-1 Bypass (See Section 4 Map). This station is a RFCA Action Level Framework and a New Source Detection Location and monitors water leaving the Site Industrial Area and entering the A-Series Ponds and North Walnut Creek. This station collects samples for selected radionuclides, metals, and water quality parameters using continuous flow-paced sampling.



**Figure 4-23 Mean Daily Discharge at Gaging Station SW093, Water Year 1998  
(January, February, March 1998)**

**Table 4-24 Gaging Station SW118: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.004	0.124	0.097	0.067	0.056	0.019a
2	0.003	0.109	0.105	0.049	0.052	0.029a
3	0.001	0.088	0.131a	0.063	0.050	0.038
4	0.002	0.066	0.175a	0.059a	0.049	0.041
5	0.000	0.061	0.151a	0.055a	0.045	0.035
6	0.001	0.054	0.153a	0.040a	0.041	0.039
7	0.003	0.048	0.176a	0.045a	0.042	0.054
8	0.002	0.052	0.147a	0.051a	0.039	0.062
9	0.004	0.127	0.126a	0.056a	0.038	0.051
10	0.004	0.180	0.105a	0.061a	0.039	0.057
11	0.001	0.150	0.096a	0.057a	0.043a	0.061
12	0.041	0.165	0.103a	0.063a	0.039a	0.076
13	0.027	0.144	0.106a	0.067a	0.042a	0.082
14	0.014	0.218	0.110a	0.063a	0.038	0.050
15	0.009	0.180	0.114a	0.082a	0.037	0.037
16	0.007	0.182	0.118a	0.096a	0.044	0.033
17	0.005	0.177	0.113a	0.114a	0.046	0.033
18	0.003	0.148	0.101	0.126a	0.042	0.143
19	0.004	0.154	0.097	0.128a	0.039	0.306
20	0.005	0.157	0.091a	0.101a	0.039a	0.349
21	0.005	0.147	0.090a	0.084a	0.037a	0.408
22	0.005	0.131	0.080a	0.073a	0.028	0.443
23	0.004	0.143	0.079a	0.062a	0.026	0.340
24	0.106	0.107	0.079a	0.069	0.025	0.226
25	0.129	0.101	0.072a	0.067	0.024	0.183
26	0.189	0.105	0.063a	0.078	0.026a	0.164
27	0.278	0.097	0.053a	0.076	0.019a	0.148
28	0.296	0.133	0.046a	0.058	0.016a	0.139
29	0.240	0.116	0.079a	0.068	NA	0.137
30	0.217	0.109	0.086a	0.071	NA	0.294
31	0.137	NA	0.080a	0.063	NA	0.378
<b>Mo. Avg. (cfs)</b>	<b>0.056</b>	<b>0.126</b>	<b>0.104</b>	<b>0.071</b>	<b>0.038</b>	<b>0.144</b>

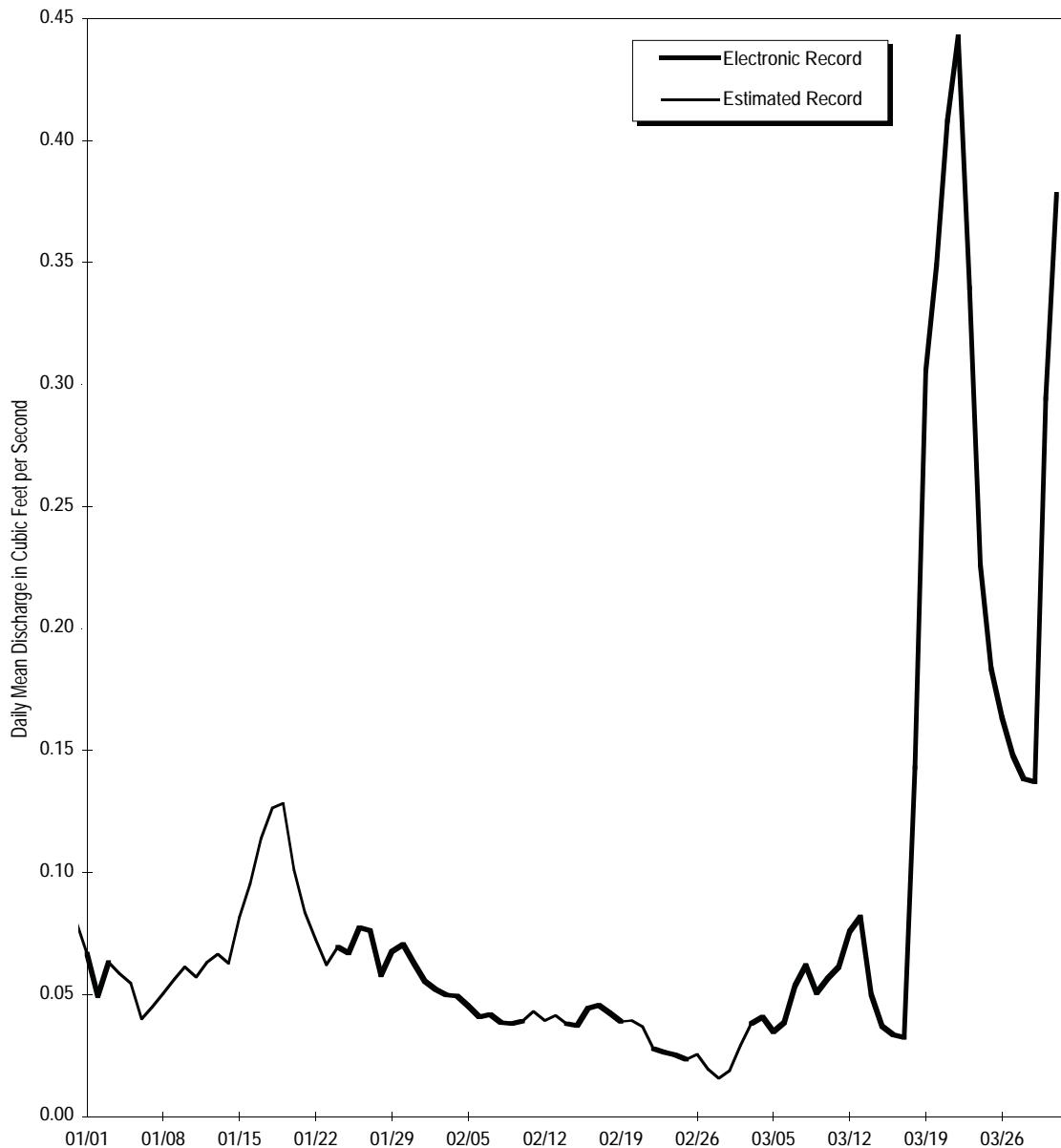
**Monthly Discharge**

Cubic Feet	150,584	326,075	278,596	191,043	91,765	384,774
Gallons	1,126,443	2,439,212	2,084,040	1,429,099	686,447	2,878,311
Acre Feet	3.46	7.48	6.39	4.39	2.11	8.83

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging Station SW118 is located  $39^{\circ} 53' 47''N$ ,  $105^{\circ} 12' 16''W$ , along North Walnut Creek above Portal 3 (See Section 4 Map). This station is a Buffer Zone Monitoring Location and monitors water leaving the NW portion of the Site Industrial Area and entering North Walnut Creek. This station collects samples for selected radionuclides using continuous, flow-paced sampling.



**Figure 4-24 Mean Daily Discharge at Gaging Station SW118, Water Year 1998  
(January, February, March 1998)**

**Table 4-21 Gaging Station SW134: Mean Daily Discharge (Cubic Feet per Second)**

Date	October 1997	November 1997	December 1997	January 1998	February 1998	March 1998
1	0.000	0.000	0.000	b	0.000	b
2	0.000	0.000	0.000	b	0.000	b
3	0.038	0.000	0.000	b	0.000	0.000
4	0.000	0.277	b	b	0.000	0.000
5	0.000	0.256	b	b	0.000	0.000
6	0.000	0.038	b	b	0.331	0.000
7	0.000	0.000	b	0.000	0.000	0.000
8	0.000	0.000	b	0.000	0.000	b
9	0.000	0.000	b	0.000	0.000	b
10	0.000	0.000	b	0.000	0.000	b
11	0.000	0.000	b	0.000	0.000	b
12	0.001	0.000	b	0.000	0.300	b
13	0.000	0.000	b	0.000	0.000	0.118
14	0.000	0.000	b	0.000	0.000	0.000
15	0.124	0.000	b	0.000	0.000	0.000
16	0.000	0.000	b	0.000	0.000	0.043
17	0.000	0.000	b	0.000	0.000	0.000
18	0.000	0.000	b	0.000	0.000	0.001
19	0.000	0.000	b	0.000	0.000	0.001
20	0.000	0.000	b	0.000	0.000	0.091
21	0.000	0.000	b	0.000	0.000	0.077
22	0.067	0.000	b	0.000	0.000	0.007
23	0.000	0.000	b	0.000	0.280	0.000
24	0.006	0.000a	b	0.000	0.000	0.176
25	0.000	0.000	b	0.000	0.000	0.336
26	0.006	0.000a	b	0.000	0.000	0.000
27	0.039	0.000a	b	0.000	0.000	0.000
28	0.010	0.000a	b	0.000	b	0.056
29	0.000	0.000	b	0.000	NA	0.000
30	0.000	0.000	b	0.000	NA	0.001
31	0.000	NA	b	0.000	NA	0.002
Mo. Avg. (cfs)	0.009	0.019	0.000	0.000	0.034	0.038

**Monthly Discharge**

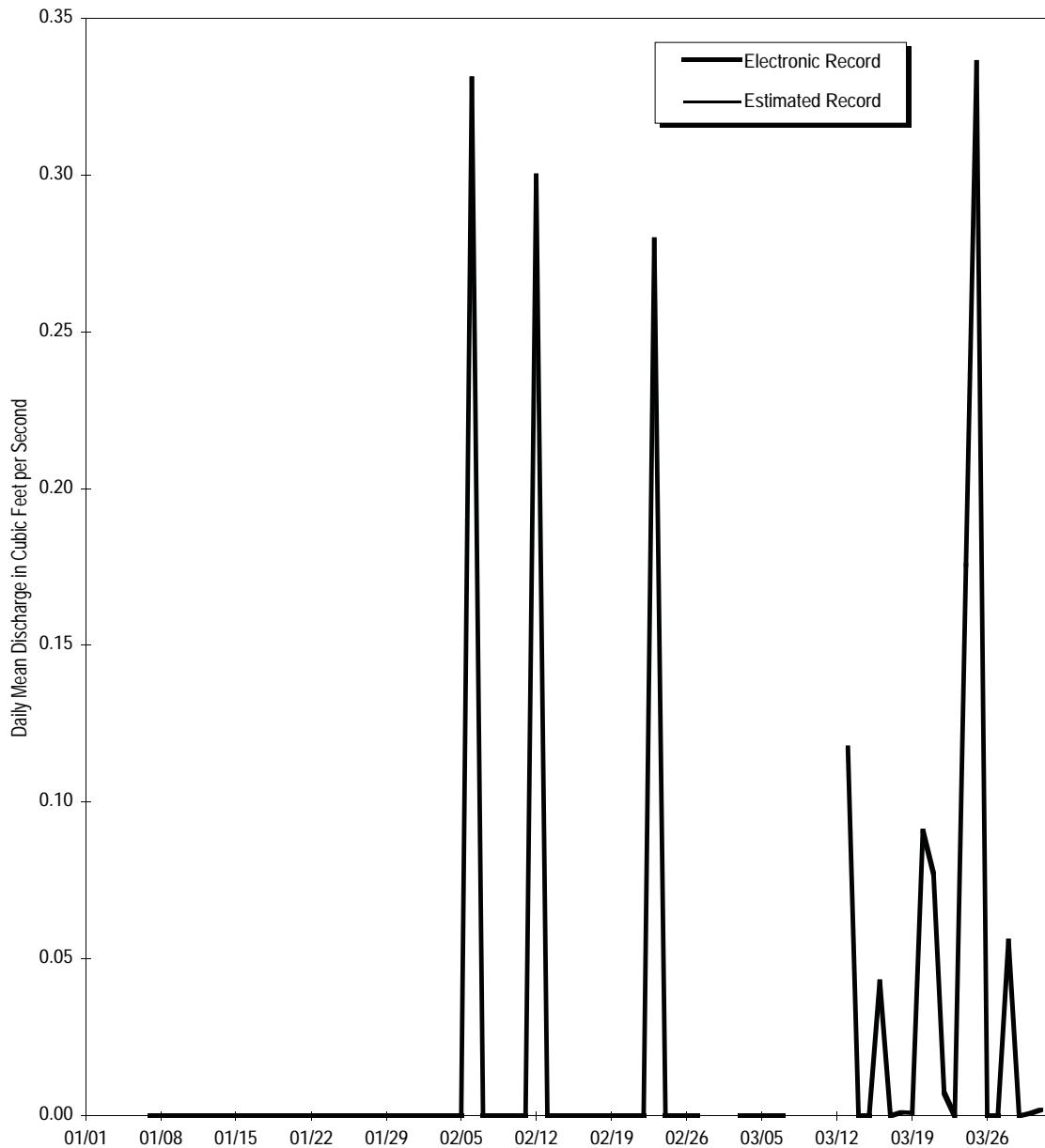
Cubic Feet	25,221	49,379	0	0	78,632	78,473
Gallons	188,665	369,378	0	0	588,212	587,020
Acre Feet	0.58	1.13	0.00	0.00	1.80	1.80

Note: Mean flow values are reported to the nearest 0.001 cfs, values less than 0.0005 cfs are reported as zero.

a Contains data estimated from field observations and electronic record at adjacent or comparable gages.

b No data or poor data because of winter icing conditions.

Gaging Station SW134 is located  $39^{\circ} 53' 31''\text{N}$ ,  $105^{\circ} 13' 44''\text{W}$ , at Rock Creek below Jefferson County Gravel Pit (See Section 4 Map). This station is a Buffer Zone Monitoring Location and monitors water pump discharged from gravel pits and entering Rock Creek. Storm event samples are collected for selected water quality parameters, metals, and major ions.



**Figure 4-25 Mean Daily Discharge at Gaging Station SW134, Water Year 1998  
(January, February, March 1998)**

## Section 4.2: Water Quality Data

**Table 4-26 Radionuclides, 1st Quarter 1998**

Loc	Sample Date	Pu-239, -240 (pCi/l)	Am-241 (pCi/l)	Total U (pCi/l)	Tritium (pCi/l)
GS01	12/10/97 - 12/12/97	0.009	0.000	a	8
GS01	12/12/97 - 12/14/97	0.008	0.004	a	20
GS01	12/15/97 - 01/14/98	0.000	0.000	a	0
GS01	01/14/98 - 01/26/98	0.002	0.000	a	0
GS01	01/26/98 - 01/30/98	0.000	0.000	a	0
GS01	01/30/98 - 02/10/98	0.000	0.000	a	160
GS01	02/10/98 - 02/17/98	0.003	0.000	a	84
GS01	02/17/98 - 03/02/98	0.000	0.020	a	55
GS01	03/02/98 - 03/13/98	0.000	0.005	a	300
GS01	03/13/98 - 03/19/98	0.016	0.012	a	b
GS01	03/19/98 - 03/23/98	0.000	0.005	a	b
GS01	03/23/98 - 04/02/98	0.006	0.016	a	b
GS03	12/05/97 - 02/12/98	0.000	0.000	a	c
GS03	02/12/98 - 02/14/98	0.002	0.000	a	9
GS03	02/14/98 - 02/16/98	0.000	0.001	a	0
GS03	02/16/98 - 02/19/98	0.001	0.037	a	220
GS03	02/19/98 - 02/24/98	0.002	0.009	a	0
GS03	02/24/98 - 03/23/98	0.003	0.000	a	b
GS03	03/23/98 - 04/01/98	0.004	0.000	a	b
GS08	01/19/98 - 01/19/98	0.006	0.005	4.579	a
GS10	12/01/97 - 12/31/97	0.012	0.028	3.133	a
GS10	12/31/97 - 01/28/97	0.016	0.017	3.220	a
GS10	01/28/98 - 02/17/98	0.000	0.003	4.305	a
GS10	02/17/98 - 03/02/98	0.000	0.002	4.445	a
GS10	03/02/98 - 03/09/98	0.069	0.000	3.182	a
GS10	03/09/98 - 03/18/98	0.072	0.064	3.792	a
GS10	03/18/98 - 03/23/98	0.413	0.156	1.625	a
GS10	03/23/98 - 04/01/98	0.015	0.058	5.203	a
GS11	02/12/98 - 02/14/98	0.019	0.003	2.675	a
GS11	02/14/98 - 02/16/98	0.018	0.004	2.096	a
GS11	02/16/98 - 02/19/98	0.002	0.001	2.872	a
GS11	02/19/98 - 02/23/98	0.003	0.019	2.595	a
GS27	01/17/98	1.130	0.298	0.747	a
GS27	03/17/98	4.460	1.060	0.388	a
GS27	03/30/98	1.380	0.272	0.325	a
GS32	01/02/98	0.037	0.041	1.061	a
GS33	11/13/97 - 02/19/98	0.001	0.006	a	a
GS33	03/08/98 - 03/23/98	0.000	0.032	a	a
GS33	03/23/98 - 04/05/98	b	b	a	a
GS34	02/12/98 - 02/23/98	0.001	0.022	a	a
GS34	02/23/98 - 03/23/98	0.005	0.000	a	a
GS34	03/23/98 - 04/01/98	0	0	a	a
GS35	10/30/97 - 03/25/98	0.000	0.006	a	a
GS35	03/25/98 - 04/04/98	b	b	a	a
GS37	03/07/98	0.027	0.018	0.962	116
GS37	03/17/98	0.063	0.023	1.965	b
GS38	02/16/98 - 03/18/98	0.088	0.017	a	a
GS38	03/18/98 - 03/19/98	0.050	0.005	a	a
GS38	03/19/98 - 04/02/98	0.051	0.022	a	a
GS39	01/15/98 - 02/16/98	0.034	0.000	a	a
GS39	02/16/98 - 03/18/98	0.041	0.005	a	a
GS39	03/18/98 - 03/19/98	0.824	0.160	a	a
GS39	03/19/98 - 04/16/98	b	b	a	a

**Table 4-26 Radionuclides, 1st Quarter 1998 (continued)**

<b>Loc</b>	<b>Sample Date</b>	<b>Pu-239, -240 (pCi/l)</b>	<b>Am-241 (pCi/l)</b>	<b>Total U (pCi/l)</b>	<b>Tritium (pCi/l)</b>
GS40	03/03/98 - 03/23/98	0.000	0.000	a	a
GS40	03/23/98 - 04/10/98	0.026	0.015	2.594	a
SW022	03/17/98	0.281	0.035	2.806	a
SW027	11/07/97 - 03/23/98	0.090	0.000	3.038	a
SW027	03/23/98 - 04/13/98	b	b	b	a
SW091	03/24/98	0.086	0.050	6.917	a
SW093	12/04/97 - 12/31/97	0.000	0.000	1.958	a
SW093	12/31/97 - 01/14/97	0.000	0.000	2.547	a
SW093	01/14/98 - 01/28/98	0.003	0.006	2.311	a
SW093	01/28/98 - 02/12/98	0.000	0.000	3.121	a
SW093	02/12/98 - 03/02/98	0.000	0.008	3.549	a
SW093	03/02/98 - 03/13/98	0.001	0.008	3.563	a
SW093	03/13/98 - 03/19/98	0.039	0.012	2.589	a
SW093	03/19/98 - 03/23/98	0.005	0.042	1.261	a
SW093	03/23/98 - 04/01/98	0.005	0.000	1.614	a
SW118	11/30/97 - 12/30/97	0.000	0.009	a	a
SW118	12/30/97 - 01/19/98	0.008	0.003	a	a
SW118	01/19/98 - 02/24/98	0.000	0.012	a	a
SW118	02/24/98 - 03/19/98	0.002	0.002	a	a
SW118	03/19/98 - 04/01/98	0.008	0.013	a	a

a	Not applicable.
b	Incomplete analysis.

**Table 4-27 Metals, 1st Quarter 1998**

<b>Loc</b>	<b>Sample Date</b>	<b>Be (µg/L)</b>	<b>Dissolved Cd (µg/L)</b>	<b>Cr (µg/L)</b>	<b>Dissolved Ag (µg/L)</b>
GS10	12/01/97 - 12/31/97	undetect	0.1	0.49	undetect
GS10	12/31/97 - 01/28/97	undetect	0.2	0.25	undetect
GS10	01/28/98 - 02/17/98	undetect	undetect	0.8	0.35
GS10	02/17/98 - 03/02/98	undetect	0.21	undetect	undetect
GS10	03/02/98 - 03/09/98	a	a	a	a
GS10	03/09/98 - 03/18/98	a	a	a	a
GS10	03/18/98 - 03/23/98	undetect	0.12	2.1	0.4
GS10	03/23/98 - 04/01/98	a	a	c	a
SW027	09/23/97 - 11/07/97	undetect	0.18	0.53	undetect
SW027	11/07/98 - 03/23/98	undetect	0.27	undetect	0.32
SW027	03/23/98 - 04/13/98	a	a	a	a
SW093	12/04/97 - 12/31/97	undetect	undetect	0.41	undetect
SW093	12/31/97 - 01/14/97	undetect	0.24	0.96	0.38
SW093	01/14/98 - 01/28/98	undetect	0.1	0.28	undetect
SW093	01/28/98 - 02/12/98	undetect	undetect	undetect	undetect
SW093	02/12/98 - 03/02/98	undetect	undetect	1	undetect
SW093	03/02/98 - 03/13/98	undetect	2.2	undetect	0.58
SW093	03/13/98 - 03/19/98	a	a	a	a
SW093	03/19/98 - 03/23/98	undetect	0.15	1.6	0.59
SW093	03/23/98 - 04/01/98	a	a	a	a
a Outstanding.					

**Table 4-28 Water Quality Parameters, 1st Quarter 1998**

Loc	Sample Date	Hardness (mg/l)	
GS10	12/01/97 - 12/31/97	200	a
GS10	12/31/97 - 01/28/97	230	a
GS10	01/28/98 - 02/17/98	230	a
GS10	02/17/98 - 03/02/98	210	a
GS10	03/02/98 - 03/09/98	220	a
GS10	03/09/98 - 03/18/98	180	a
GS10	03/18/98 - 03/23/98	120	a
GS10	03/23/98 - 04/01/98	210	a
GS27	03/17/98	a	93
GS27	03/30/98	a	6
GS37	03/7/98	a	10
GS37	03/17/98	a	360
GS38	03/18/98 - 03/19/98	a	47
GS39	03/18/98 - 03/19/98	a	b
SW022	03/17/98	a	280
SW027	11/07/98 - 03/23/98	170	a
SW027	03/23/98 - 04/13/98	b	a
SW091	03/24/98	a	b
SW093	12/40/97 - 01/2/31/97	220	a
SW093	12/31/97 - 01/14/97	300	a
SW093	01/14/98 - 01/28/98	250	a
SW093	01/28/98 - 02/12/98	270	a
SW093	02/12/98 - 03/02/98	290	a
SW093	03/02/98 - 03/13/98	b	a
SW093	03/13/98 - 03/19/98	220	a
SW093	03/19/98 - 03/23/98	160	21
SW093	03/23/98 - 04/01/98	180	a

a Not collected (for TSS: analysis not run if sample collected after 7 day hold time limit.  
 b Outstanding.

**Table 4-29 Hydrologic Water Quality Parameters and Major Ions, 1st Quarter 1998**

Location	Sample Date	TSS (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	K (mg/l)	Cl (mg/l)	F (mg/l)	SO <sub>4</sub> (mg/l)	HCO <sub>3</sub> (mg/l)
GS01	03/20/98	< 5	a	a	a	a	28	0.29	32	180
GS02	03/22/98	5	a	a	a	a	12	0.26	14	74
GS03	03/19/98	61	a	a	a	a	99	0.42	45	90
GS03	03/31/98	24	44.9	10.1	35.9	3.26	56	0.39	54	200
GS04	03/13/98	c	31.7	7.03	19.3	1.41	a	a	a	a
GS05	03/07/98	< 5	a	a	a	a	38	0.25	18	95
SW134	02/06/98	16	25.8	5.12	13.3	1.17	10	0.34	38	75

a Incomplete analysis.

**Table 4-30 Sand/Sediment Split, 1st Quarter 1998**

Loc	Sample Date	Sieve Analysis (%)						
		0.75 Inches	0.375 Inches	#4 Mesh	#10 Mesh	#40 Mesh	#200 Mesh	<#200 Mesh
GS01	03/20/98	<1	<1	<1	<1	<1	<1	100
GS02	03/22/98	<1	<1	<1	<1	<1	<1	100
GS03	03/19/98	<1	<1	<1	<1	<1	<1	100
GS03	03/31/98	<1	<1	<1	<1	<1	<1	100
GS04	03/13/98	a	a	a	a	a	a	a
GS05	03/07/98	<1	<1	<1	<1	<1	<1	100
SW134	02/06/98	<1	<1	<1	<1	<1	<1	100

a Incomplete analysis.

