

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
QUARTERLY
ENVIRONMENTAL MONITORING REPORT
JANUARY – MARCH 2001**



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MAY 2001

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PREPARED BY ROCKY MOUNTAIN REMEDIATION SERVICES, L.L.C.

*THE DATA IN THIS DOCUMENT MAY BE PRELIMINARY AND COULD CHANGE AFTER THE
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MAY 2001

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HIGHLIGHTS FOR JANUARY – MARCH 2001

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 monitoring requirement. As discussed at a previous Exchange of Information Meeting, the Site is consolidating its reporting for selected media. In an effort to provide a more meaningful interpretation of the data presented and to save some natural resources, namely trees, the Site will be providing analytical data in the following formats.

Airborne effluent data are represented by a single graph providing cumulative plutonium emissions for 1998, 1999, and 2000. Ambient air data are represented by two graphs – a summary of estimated off-site dose as compared to a 10 Mrem per year standard, and air concentrations at perimeter sample locations expressed as a percentage of EPA's air concentration-based dose limit for members of the public. Meteorological data are represented by one windrose and a climatic summary for each month in the reporting period.

Compliance data in support of the Site National Pollutant Discharge Elimination System (NPDES) permit are presented for the reporting period. Analytical data collected in support of RFCA will include the following locations: GS01, GS03, GS08, GS10, GS11, GS31, GS43, SW022, SW027, SW091, and SW093. Data include the hydrograph, mean daily flow and available water quality measurements for each location during the reporting period. Additional surface water locations supporting the Industrial Area Interim Measures/Interim Remedial Action (IA IM/IRA) program are GS27, GS32, GS39 and GS40 and are presented in the same manner as RFCA locations. Other stations may appear or be deleted, as performance monitoring locations are added or dropped, as well as any new source detection locations that may be required. Some locations, like GS32, have no flow monitoring capabilities and only analytical data are provided. An additional section provides quarterly summary information for the Incidental Waters program.

Airborne Effluent

Complete isotopic analytical data through February 2001 are included in this report. All data are within the normally observed ranges of concentrations for their respective locations. Consistent with all other uses of these data, only positive values are included in the total release calculation (the negative values are treated as zeros). The uncertainty calculation reflects all data.

Routine maintenance to Building 371 effluent samplers was performed in December 2000.

During December 2000, effluent stack flow rate was measured in Building 440. The coefficient of variation for this measurement, which compares the most recent flow rate measurement to previous measurements to confirm constant flow rate, was well within the acceptance range of ± 20 percent.

Ambient Air

Complete isotopic analytical data through February 2001 for coarse (>10 micrometers) and fine (≤10 micrometers) ambient air samples are included in this report. All data are within the normally observed ranges of concentrations for their respective locations.

During the quarterly sample flow verification in January, all ambient air samplers were observed to have acceptable sample flow of 40 cubic feet per minute (cfm) ± 4 cfm.

An unscheduled filter exchange of a compliance sample occurred in January when sampler S-254 radioed an alarm to the RAAMP telemetry computer due to excess pressure drop across the filter. A flow rate measurement across the excessively dust-laden sample filter verified a flow restriction, and the restricted flow rate was used to conservatively calculate radionuclide concentrations for the sample. Elevated concentrations of naturally-occurring uranium 234 and 238 were reported for this sample, which is consistent with the high dust concentrations indicated at this location.

Meteorology and Climatology

Meteorological data are routinely measured from instruments on a 61-meter tower located in the west buffer zone at an elevation of 1,870 meters (6,140 feet) above sea level. All meteorological data are collected on a real-time basis and are transmitted as 15-minute averaged values to the Computer Assisted Protective Action Recommendations System (CAPARS) model for emergency response purposes. The same data are logged at the tower and downloaded for air quality and surface water modeling purposes.

Climatic summaries and wind roses for January through March 2001 are included in this report.

As a result of the protocols used to validate the meteorological data, each 15-minute averaged observation is validated, rather than the entire observation record for the same time period (which might contain 70 different observations -- i.e., temperature, wind speed, etc.). Missing data are reported with respect to the wind speed and wind direction values, for example, rather than recording all observations missing for the same 15 minute period. There were no missing wind speed and/or direction data during the quarter.

The semi-annual calibration of all meteorological instruments was performed in February and all instruments were found to be operating within acceptable tolerances.

Surface Water

Surface water analytical data collected during second quarter of FY01 (January, February, and March) for NPDES permit compliance are presented in this report.

The Site reported Acute Whole Effluent toxicity (WET) testing data collected at Outfall STP 1 during the January, February, and March 2001 quarter. Toxicity was measured for *Pimephales promelas* (fathead

minnows) in a composite sample collected on January 19, 2001. As required by the permit, the Site re-sampled for the organism that failed the acute WET test, fathead minnows, within two weeks of notification of the failed test by the subcontracted labs. The re-sample was collected on January 29, 2001 and no toxicity for fathead minnows was measured. The toxicity response in the original sample for the fathead minnows is most likely the result of elevated ammonia concentrations coupled with a rise in the pH of the sample during the testing period.

Included in this report are two surface water locations that monitor the Mound Site area. These locations are SW061 and SW132 and are sampled quarterly for isotopic Pu/Am, selected total and dissolved metals, and EPA VOA Method 8260.

Hydrologic Monitoring and Rocky Flats Cleanup Agreement (RFCA) Monitoring

All available analytical data collected during second quarter of FY01 (January, February, and March) from samples supporting RFCA and Hydrologic Monitoring programs are included in this report. One new RFCA station was added the routine monitoring program during the quarter. Gaging station GS49 became operational on December 29, 2000 and was installed in support of D&D activities for Building 776/777. The GS49 drainage area is approximately 3.3 acres. This station collects samples for selected isotopes, metals, tritium, and TSS using continuous flow-paced composite sampling.

Incidental Water Monitoring

A summary of Incidental Waters dispositioned during second quarter of FY01 (January, February, and March) are presented in this report.

1.0 AIR DATA

1.1 EFFLUENT AIR DATA

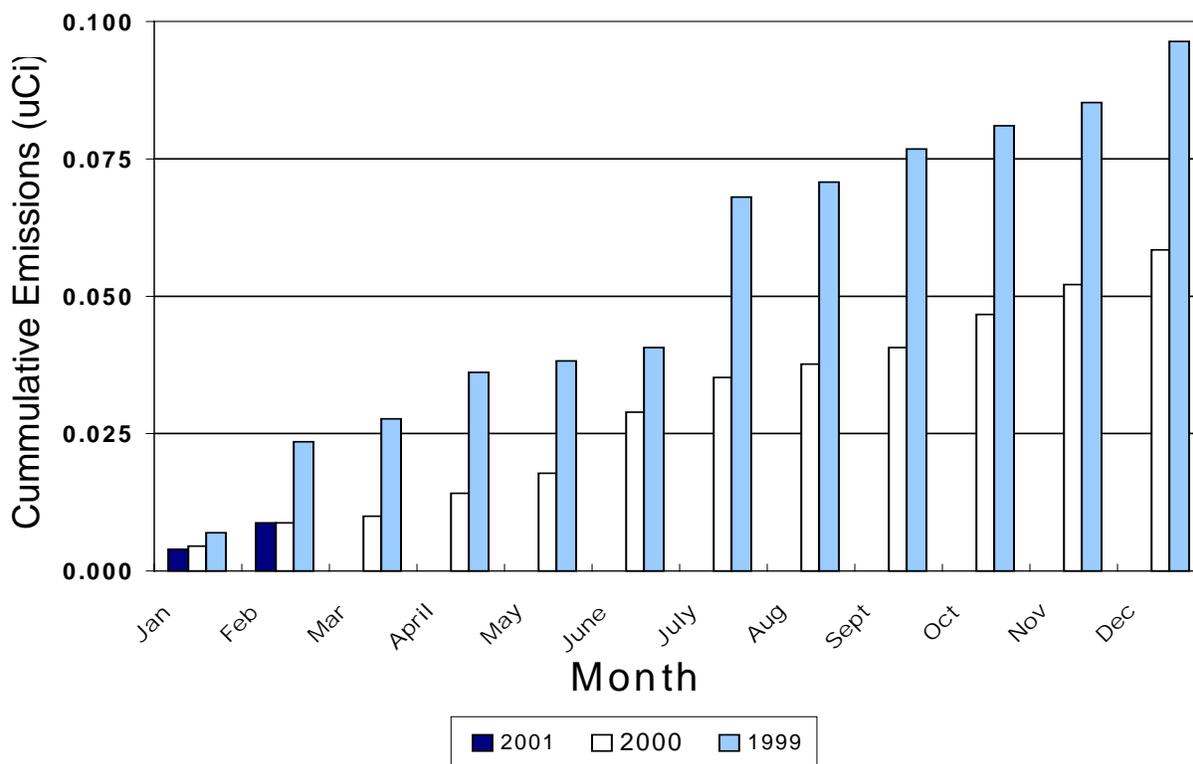
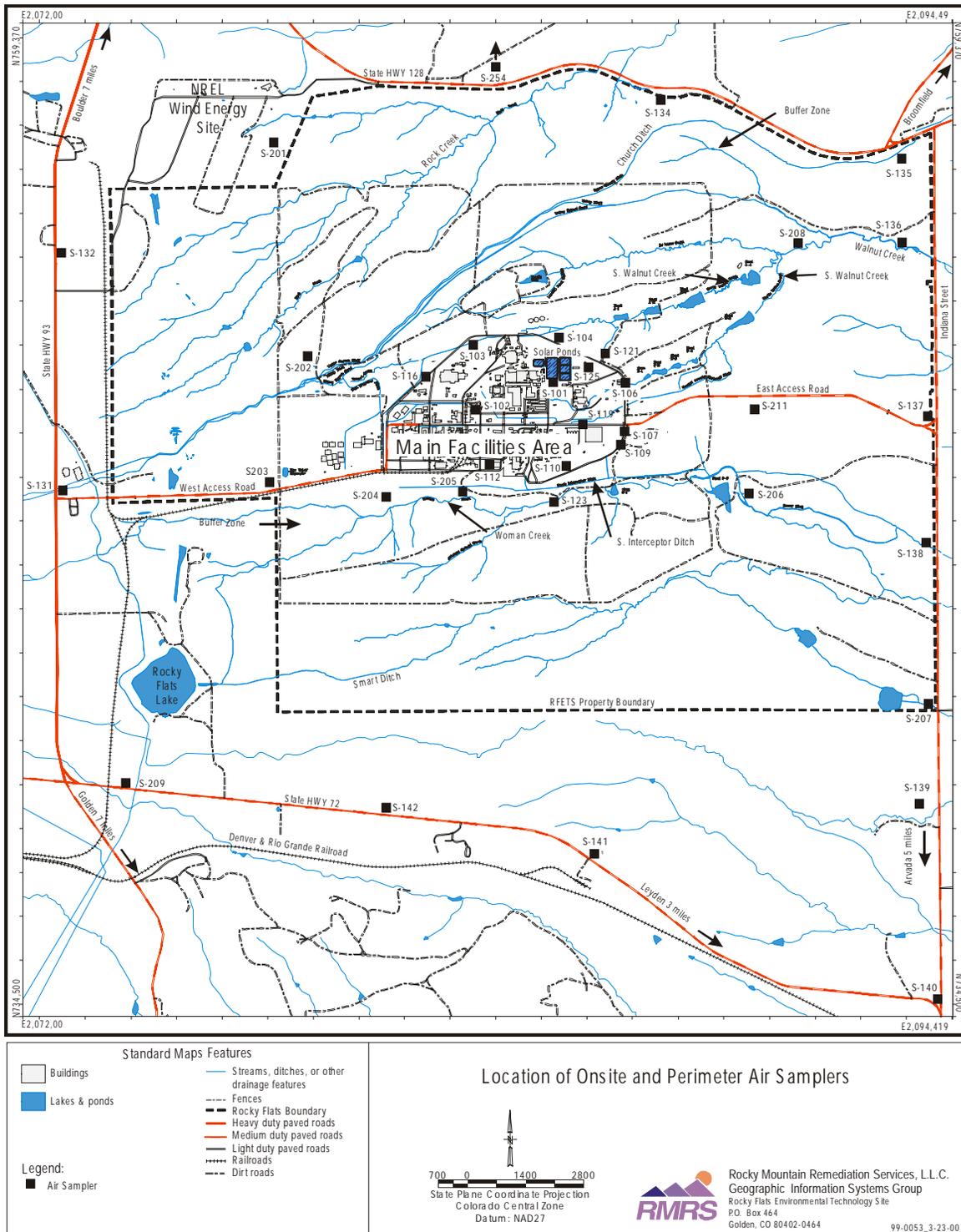


Figure 1-1 Cumulative Plutonium Airborne Effluent Emissions

The above graph shows the cumulative airborne effluent emissions of plutonium from building stacks. The results from the most recently analyzed effluent stack samples (December, January, and February 2001) were consistent with previously measured plutonium concentrations, with a cumulative, year-to-date (February 2001) plutonium emission of 0.009 microcuries (uCi).

Americium and uranium emissions for December, January, and February 2001 were consistent with the levels seen in 1998, 1999, and 2000.

Map 1-1. Location of Onsite and Perimeter Air Samplers



2.0 AMBIENT AIR DATA

2.1.1 Perimeter Sampler Locations

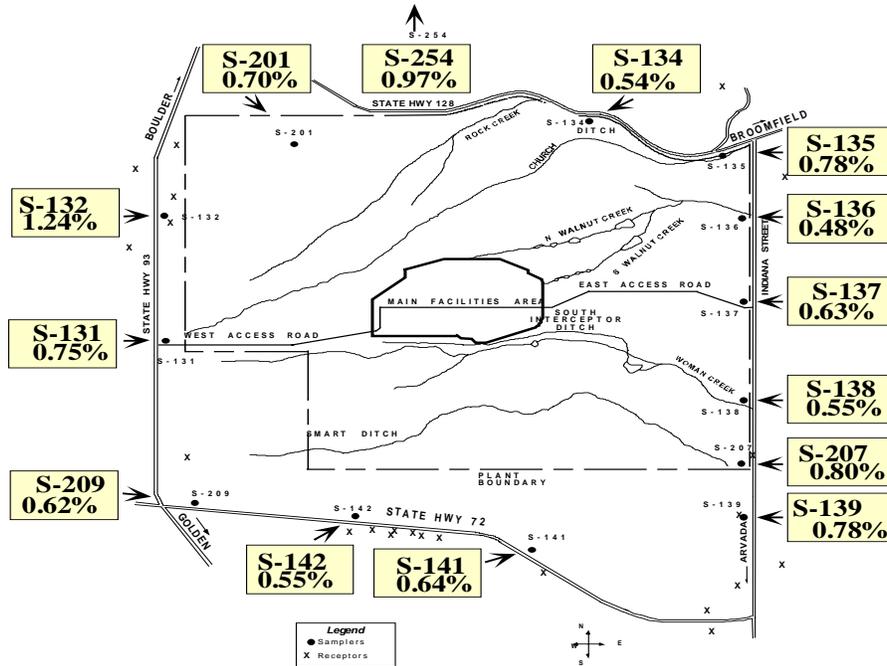


Figure 2-1. Perimeter Samplers Dose Map

The above map illustrates the perimeter Radioactive Ambient Air Monitoring Program (RAAMP) sampler locations and the twelve-month rolling-average maximum potential dose through February 2001, expressed as a percentage of EPA's air concentration-based dose limit for members of the public. The percentage values are based on the measured air concentrations, averaged over the year, converted as a percent of the Rad NESHAP concentration limits.

The percentages include the naturally occurring uranium isotopes as well as the isotopes from site contributions. The average concentration observed at location S-132 is projected to equate to the highest potential dose, which is consistent with the previously reported results.

2.1.2 Perimeter Sampler Locations – Dose Rate Graphs

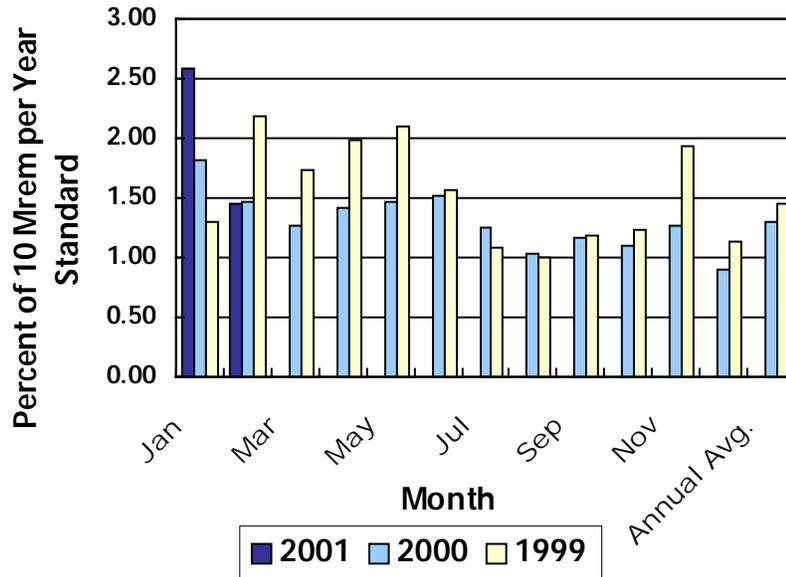


Figure 2-2. Offsite Dose Rate Summary

The above graph illustrates the monthly estimated maximum potential dose rates at the perimeter sampler showing the highest total radionuclide concentrations, including contributions from naturally occurring uranium isotopes. The highest dose rates for December 2000, January and February 2001 were seen at locations S-254, S-254 and S-132, respectively. The maximum offsite dose rate remains below 2.5 percent of the 10 mrem standard at all locations except S-254, where the dose rate was 2.6 percent. This reflects the elevated concentrations of naturally occurring uranium (U-234 and 238) due to a heavily loaded filter in January 2001, as mentioned in the highlights.

2.2.2 Perimeter Sampler Locations – Dose Rate Graphs, continued

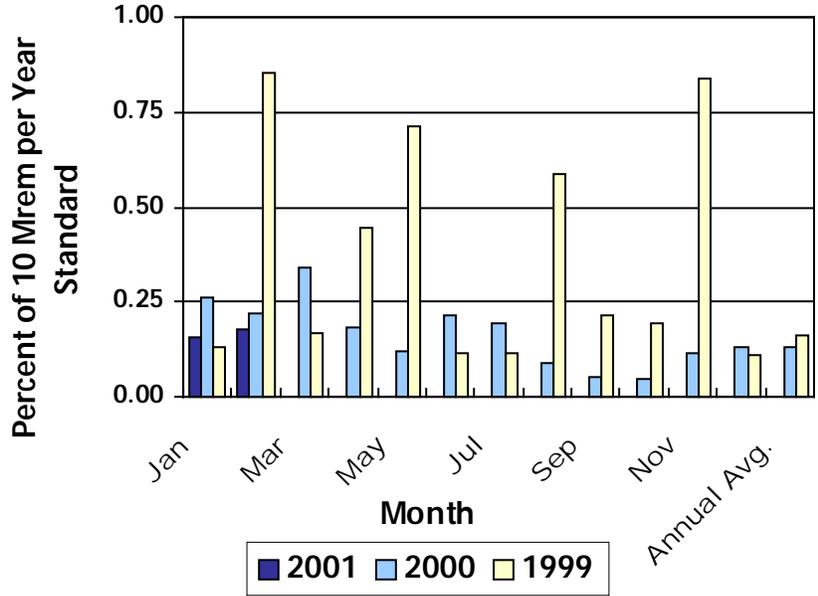


Figure 2-3. Offsite Dose Rate Summary Without U-234 and U-238

Omitting the dose contributions from uranium 234 and 238 may better reflect the contribution from Site operations at the same sampling location, since uranium occurs naturally in Colorado soils. This view shows the maximum offsite dose rate, resulting from Site activities, to be less than 0.9 percent of the 10 mrem standard.

Ambient concentrations and dose rates for 2001 are similar to the rates observed in 1998, 1999, and 2000.

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3.0 METEOROLOGY AND CLIMATOLOGY

3.1 WIND ROSES FOR JANUARY, FEBRUARY, AND MARCH 2001

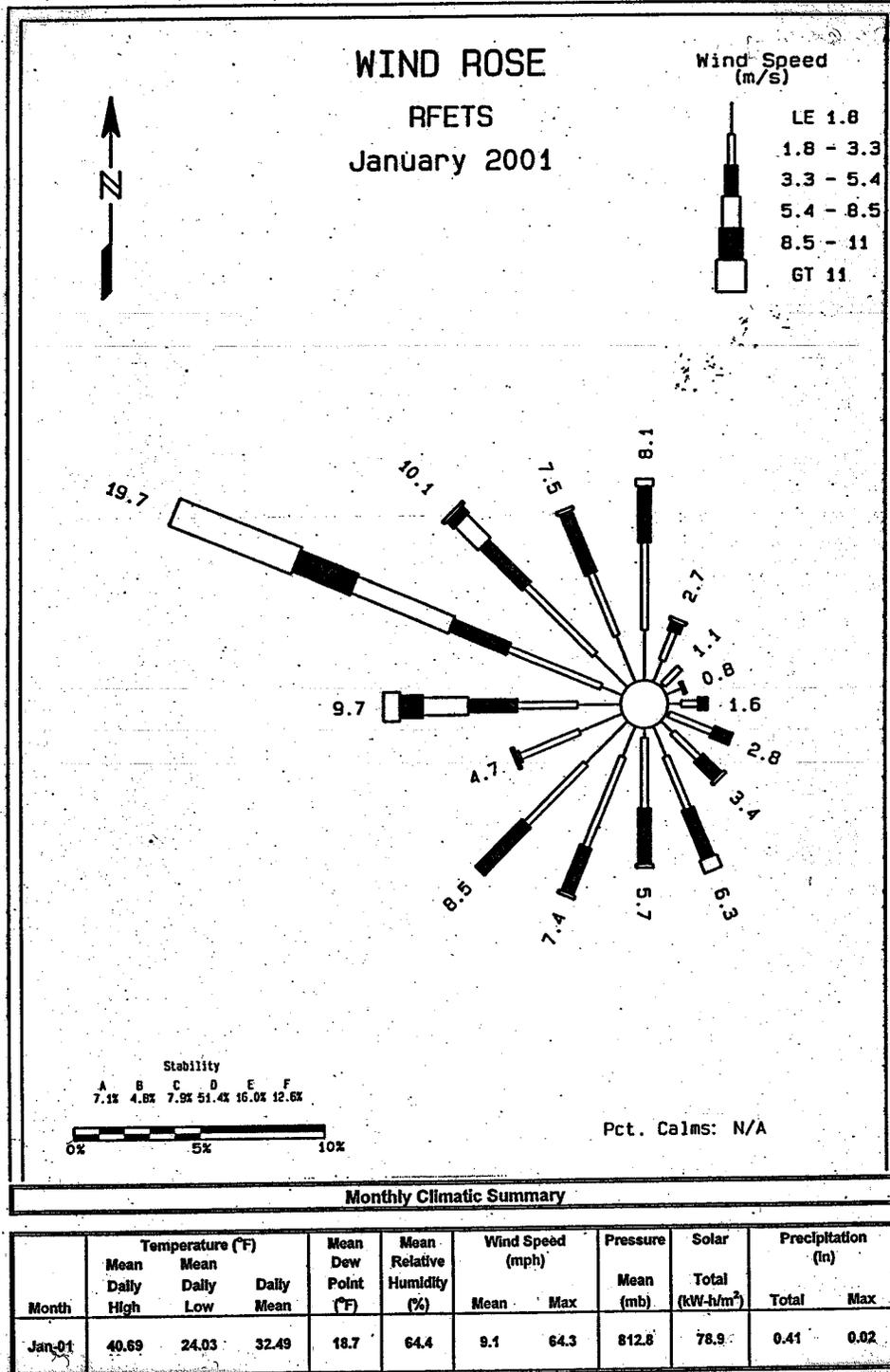


Figure 3-1. Wind Rose for Rocky Flats Environmental Technology Site for January 2001

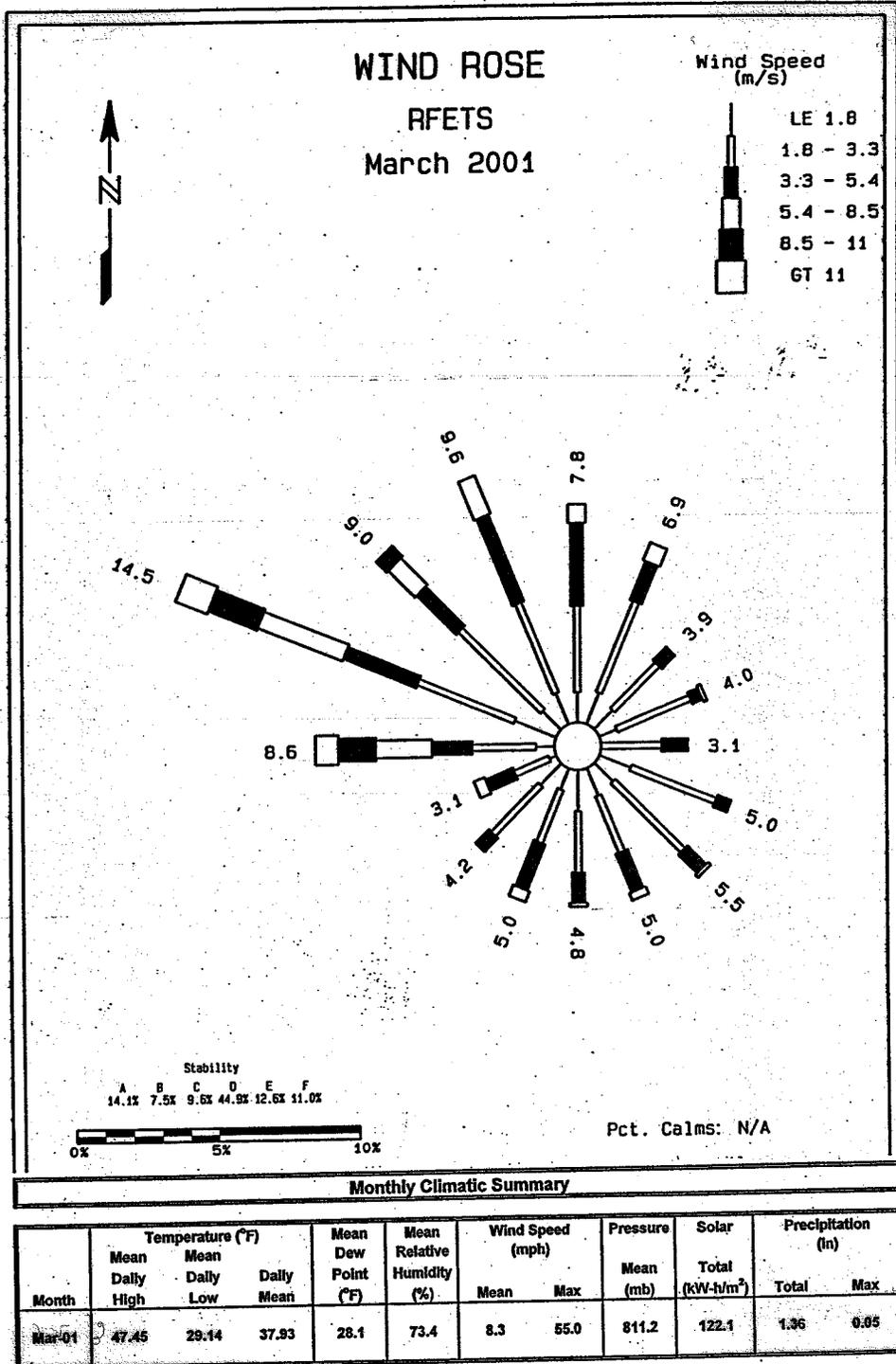


Figure 3-3. Windrose for Rocky Flats Environmental Technology Site for March 2001

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4.0 SURFACE WATER DATA

Map 4-1. Holding Ponds and Liquid Effluent Water Courses

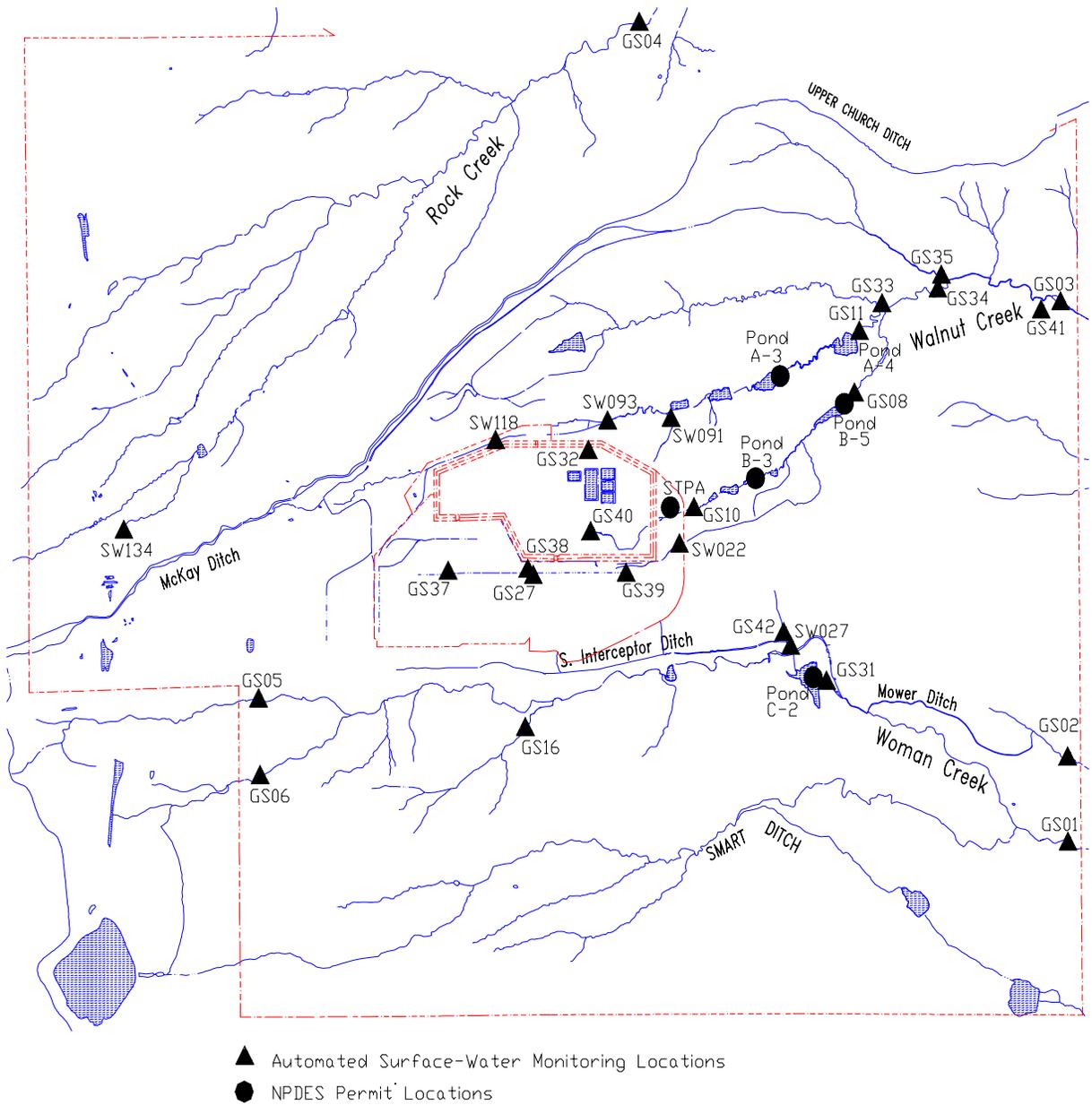


Table 4-1. Sewage Treatment Plant (Outfall STP1), continued

Parameter & Units	Measured 30-day Average	Limit 30-Day Average	Measured 7-Day Average	Limit 7-Day Average	Measured Daily Minimum	Limit Daily Minimum	Measured Daily Maximum	Limit Daily Maximum	Measured Result	% Removal (calc.)	% Removal Minimum
Gross alpha, pCi/l	<1 - 2	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gross beta, pci/l	9 - 12	19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ceriodaphnia Acute test	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	>100 pass	N/A	N/A
Fathead Minnows Acute test	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	86.8, fail >100, re-test, pass	N/A	N/A
Ceriodaphnia Chronic test	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NS	N/A	N/A
Fathead Minnows Chronic test	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NS	N/A	N/A
Carbon tetrachloride, ug/l	<1	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2 dichloroethane, ug/l	<1	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene, ug/l	<1	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1 dichloroethylene, ug/l	<1	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,1 trichloroethane, ug/l	<1	200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2 dichloroethylene (total), ug/l	<1	70	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichloroethylene, ug/l	<1	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetrachloroethylene, ug/l	<1	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

N/A Not Applicable
NS Not sampled

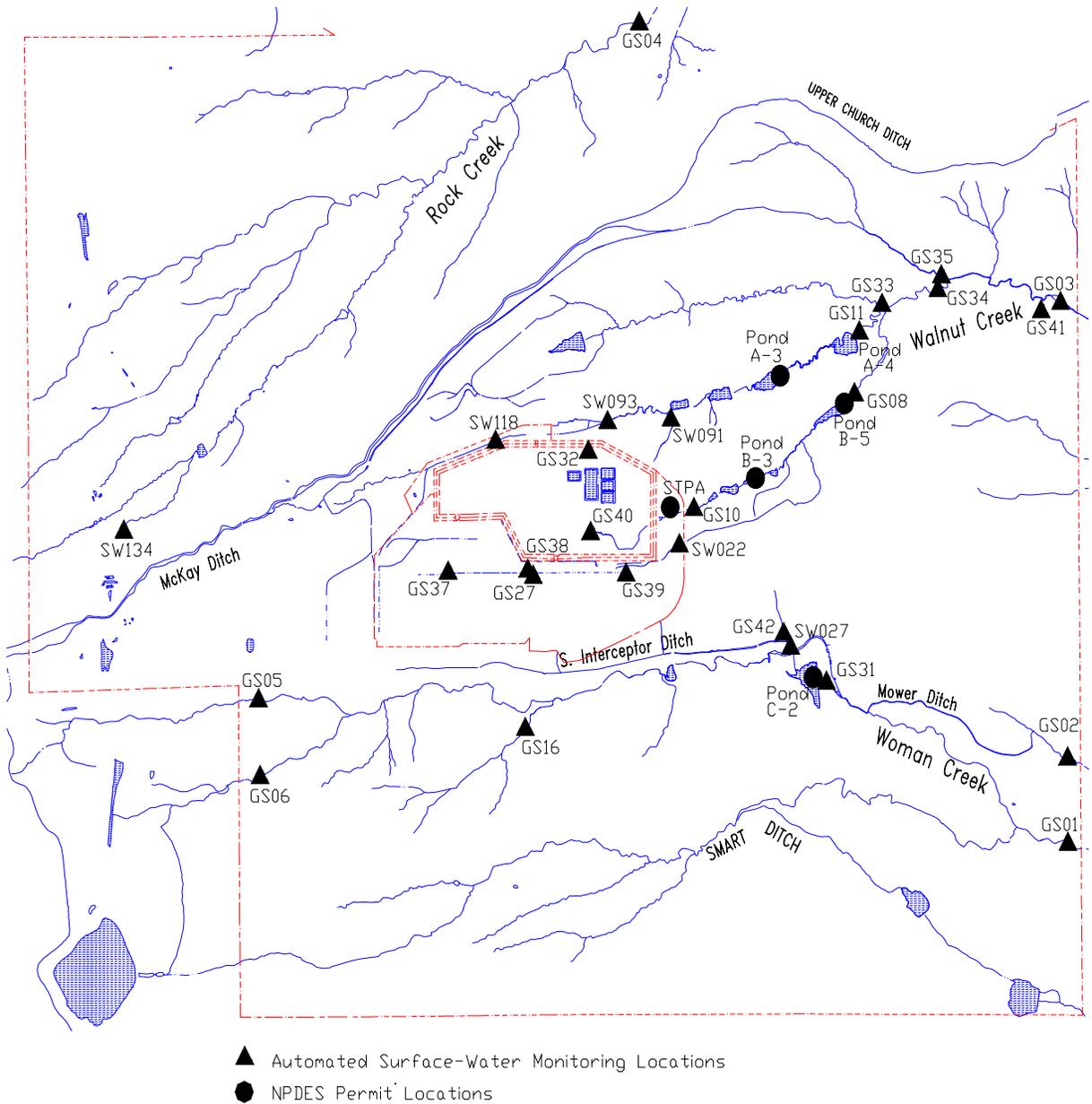
4.2 MOUND PLUME SUMMARY DATA

Table 4-2. Mound Plume Locations SW061 and SW132

Analyte	SW061	SW132
	03/22/01	03/22/01
Pu 239/240, pCi/l	-0.001 +/- 0.001	0.012 +/- 0.023
Am 241, pCi/l	0.002 +/- 0.013	-0.004 +/- 0.004
Silver, dissolved, ug/l	<0.15	<0.15
Aluminum, total, ug/l	18.5	66.4
Arsenic, total, ug/l	0.85	<0.8
Barium, total, ug/l	318	232
Beryllium, total, ug/l	<0.08	<0.08
Cadmium, dissolved, ug/l	1.0	0.50
Copper, dissolved, ug/l	1.5	2.5
Iron, total, ug/l	258	126
Mercury, total, ug/l	<0.10	<0.10
Manganese, total, ug/l	146	48.4
Nickel, dissolved, ug/l	1.4	1.6
Lead, dissolved, ug/l	<0.55	<0.55
Antimony, total, ug/l	0.73	6.9
Selenium, dissolved, ug/l	1.2	3.2
Zinc, dissolved, ug/l	41.0	354
EPA VOA Method 8260, compounds found >RFCA Seg 5 Action Level	None detected	None detected

5.0 HYDROLOGIC AND ROCKY FLATS CLEAN-UP AGREEMENT (RFCA) DATA

Map 5-1. Gaging Station Locations



5.1 FLOW MONITORING

Table 5-1. Gaging Station GS01: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.122a	0.080a	0.191
2	0.053a	0.074	0.197
3	0.049	0.179	0.171
4	0.044	0.248	0.142
5	0.105a	0.236	0.139
6	0.216a	0.291	0.165
7	0.178a	0.176	0.182
8	0.113a	0.263	0.175
9	0.099a	0.111a	0.168
10	0.077a	0.115a	0.275
11	0.100a	0.126a	0.339
12	0.099a	0.131	0.352
13	0.076a	0.187	0.544
14	0.073a	0.235	0.656
15	0.048a	0.249	0.342
16	0.081a	0.193	0.256
17	WR	0.141	0.291
18	WR	0.215	0.380
19	WR	0.241	0.277
20	WR	0.321	0.237
21	WR	0.337	0.217
22	WR	0.304	0.217
23	0.115a	0.306	0.198
24	0.130a	0.267	0.197
25	0.115a	0.195	0.224
26	0.104a	0.183	0.326
27	0.103a	0.153	0.616
28	0.109a	0.143	0.400
29	0.128a	NA	0.301
30	0.104a	NA	0.401
31	0.131a	NA	0.309
Monthly Average (cfs)	0.103	0.204	0.287

Monthly Discharge

Cubic Feet	222076	492350	767585
Gallons	1661242	3683035	5741935
Acre-Feet	5.10	11.30	17.62

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.

WR – No data or unacceptable data due to winter icing conditions.

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.

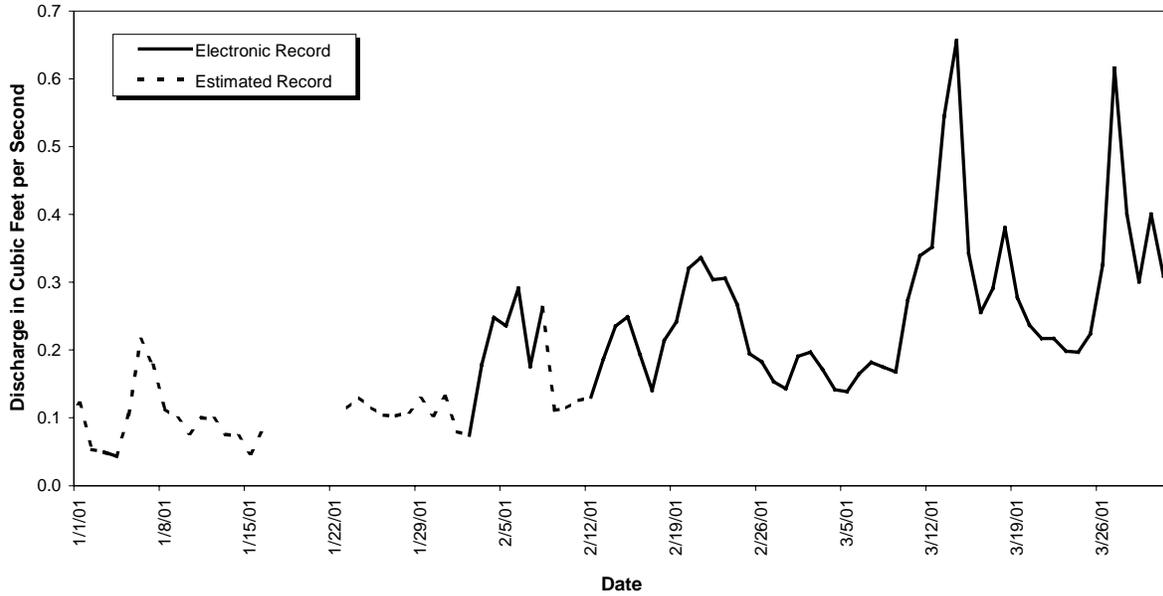


Figure 5-1. Mean Daily Discharge at GS01, Water Year 2001 (January, February, and March)

Table 5-2. Gaging Station GS03: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.000a	0.002	0.000
2	0.000a	0.002	0.001
3	0.000a	0.002	0.001
4	0.000a	0.001	0.001
5	0.000	0.001	0.001
6	0.000	0.001	0.001
7	0.000	0.001	0.001
8	0.000	0.002	0.001
9	0.000	0.001a	0.000
10	0.000	0.002a	0.004
11	0.212	0.002a	0.004
12	0.776	0.001a	0.460
13	0.874	0.001	1.343
14	0.893	0.001	1.369
15	0.995	0.002	1.460
16	1.031	0.001	1.442
17	1.122	0.001	1.306
18	1.116	0.001	1.205
19	0.980	0.001	1.269
20	0.805	0.000	1.463
21	0.689	0.001	1.464
22	0.329	0.000	0.925
23	0.007	0.000	0.222
24	0.004	0.000	0.009
25	0.004	0.000	0.006
26	0.002	0.000	0.008
27	0.002	0.000	0.006
28	0.002	0.000	0.006
29	0.002a	NA	0.005
30	0.002a	NA	0.004
31	0.002a	NA	0.006
Monthly Average (cfs)	0.318	0.001	0.451

Monthly Discharge

Cubic Feet	851026	2391	1208908
Gallons	6366120	17885	9043263
Acre-Feet	19.54	0.05	27.75

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.

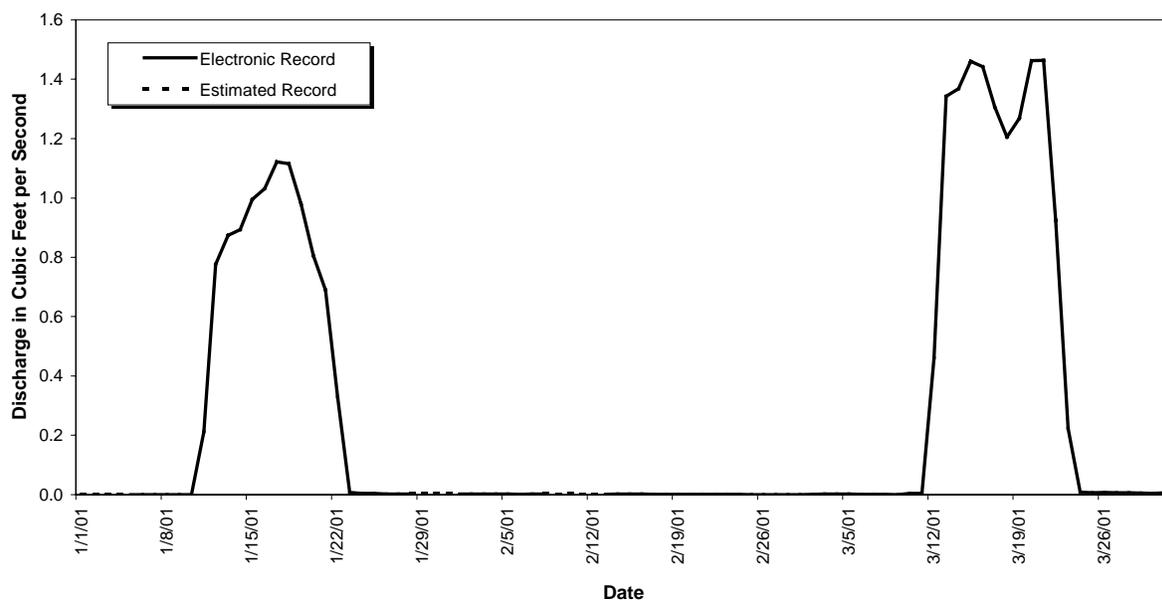


Figure 5-2. Mean Daily Discharge at GS03, Water Year 2001 (January, February, and March)

Table 5-3. Gaging Station GS08: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.697	0.000	0.000
12	1.193	0.000	1.140
13	1.233	0.000	1.889
14	1.224	0.000	1.871
15	1.339	0.000	1.962
16	1.343	0.000	1.871
17	1.529	0.000	1.690
18	1.524	0.000	1.561
19	1.296	0.000	1.711
20	1.024	0.000	1.963
21	0.871	0.000	1.907
22	0.277	0.000	1.162
23	0.000	0.000	0.156
24	0.000	0.000	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	NA	0.000
30	0.000	NA	0.000
31	0.000	NA	0.000
Monthly Average (cfs)	0.437	0.000	0.609

Monthly Discharge

Cubic Feet	1170810	0	1631380
Gallons	8758271	0	12203569
Acre-Feet	26.88	0.00	37.45

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

Gaging Station GS08 is located 39° 53' 54"N, 105° 10' 48"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.

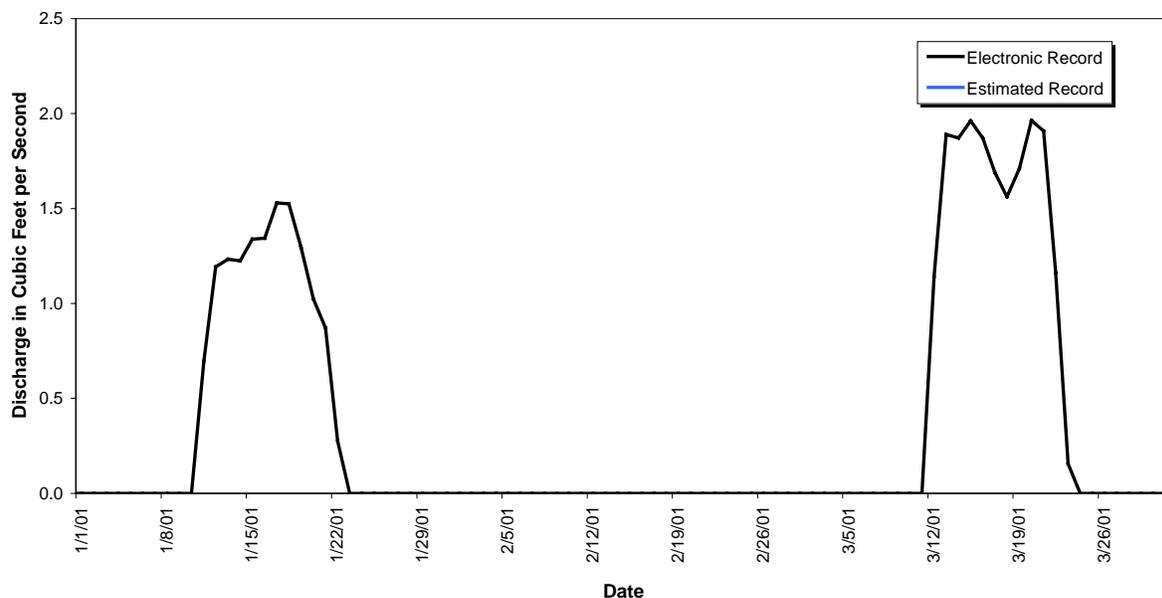


Figure 5-3. Mean Daily Discharge at GS08, Water Year 2001 (January, February, and March)

Table 5-4. Gaging Station GS10: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.051	0.043	0.035
2	0.049	0.047	0.036
3	0.053	0.050	0.034
4	0.060	0.043	0.034
5	0.057	0.048	0.037
6	0.059	0.044	0.039
7	0.056	0.042	0.037
8	0.056a	0.039	0.037
9	0.055	0.034	0.036
10	0.059	0.034	0.305
11	0.057	0.101	0.382
12	0.056	0.042	0.140
13	0.056	0.030	0.160
14	0.055	0.052	0.056
15	0.055	0.080a	0.044
16	0.072	0.038a	0.042
17	0.058a	0.038a	0.139
18	0.042a	0.038	0.051
19	0.035a	0.049	0.045
20	0.038a	0.043	0.047
21	0.036	0.042	0.050
22	0.034	0.042	0.046
23	0.038	0.040	0.043
24	0.037	0.038	0.045
25	0.039	0.038	0.049
26	0.040	0.036	0.304
27	0.041	0.038	0.140
28	0.043	0.041	0.057
29	0.056	NA	0.161
30	0.047	NA	0.077
31	0.043	NA	0.111
Monthly Average (cfs)	0.050	0.045	0.091

Monthly Discharge

Cubic Feet	132697	108074	243605
Gallons	992644	808448	1822295
Acre-Feet	3.05	2.48	5.59

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 GS10 is located 39° 53' 35"N, 105° 11' 27"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.

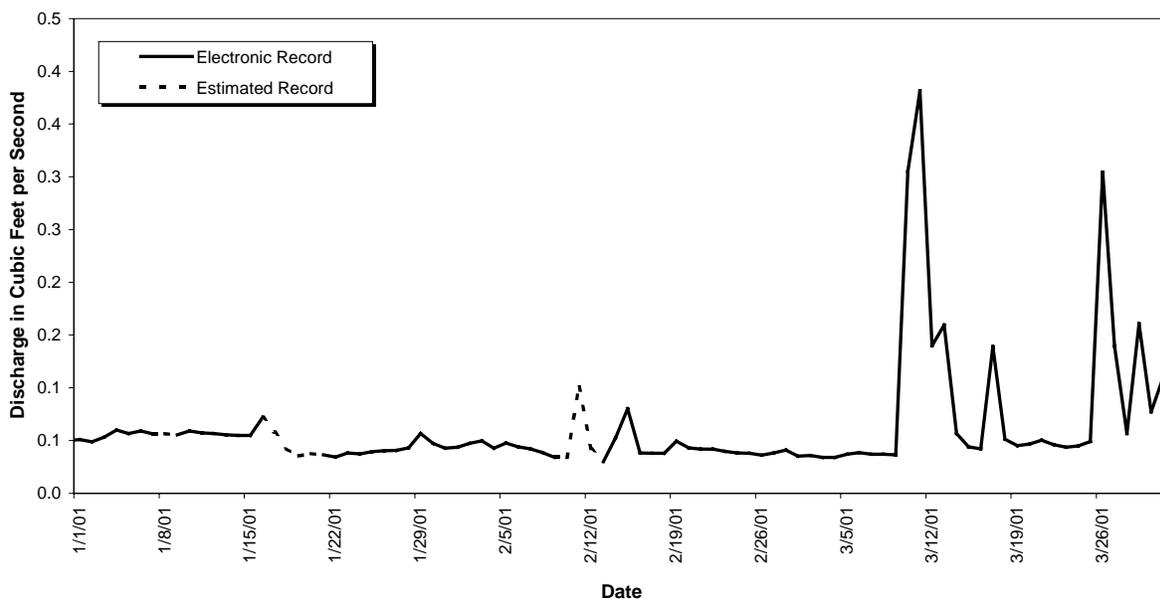


Figure 5-4. Mean Daily Discharge at GS10, Water Year 2001 (January, February, and March)

Table 5-5. Gaging Station GS11: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.000	0.000
24	0.000	0.000	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	NA	0.000
30	0.000	NA	0.000
31	0.000	NA	0.000
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	0	0
Gallons	0	0	0
Acre-Feet	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 GS11 is located 39° 54' 3"N, 105° 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.

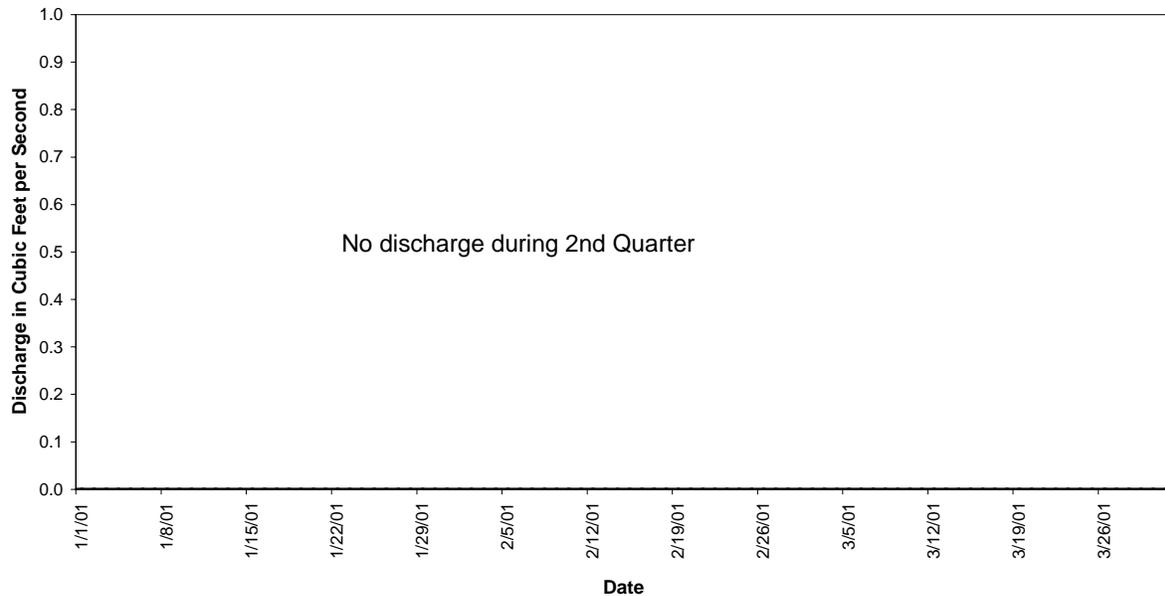


Figure 5-5. Mean Daily Discharge at GS11 Water Year 2001 (January, February, and March)

Table 5-6. Gaging Station GS27: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0003
11	0.0000	0.0000	0.0009
12	0.0000	0.0000	0.0006
13	0.0000	0.0000	0.0002
14	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0008
27	0.0000	0.0000	0.0002
28	0.0000	0.0000	0.0000
29	0.0000	NA	0.0001
30	0.0000	NA	0.0000
31	0.0000	NA	0.0000
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	0	275
Gallons	0	0	2060
Acre-Feet	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.

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.

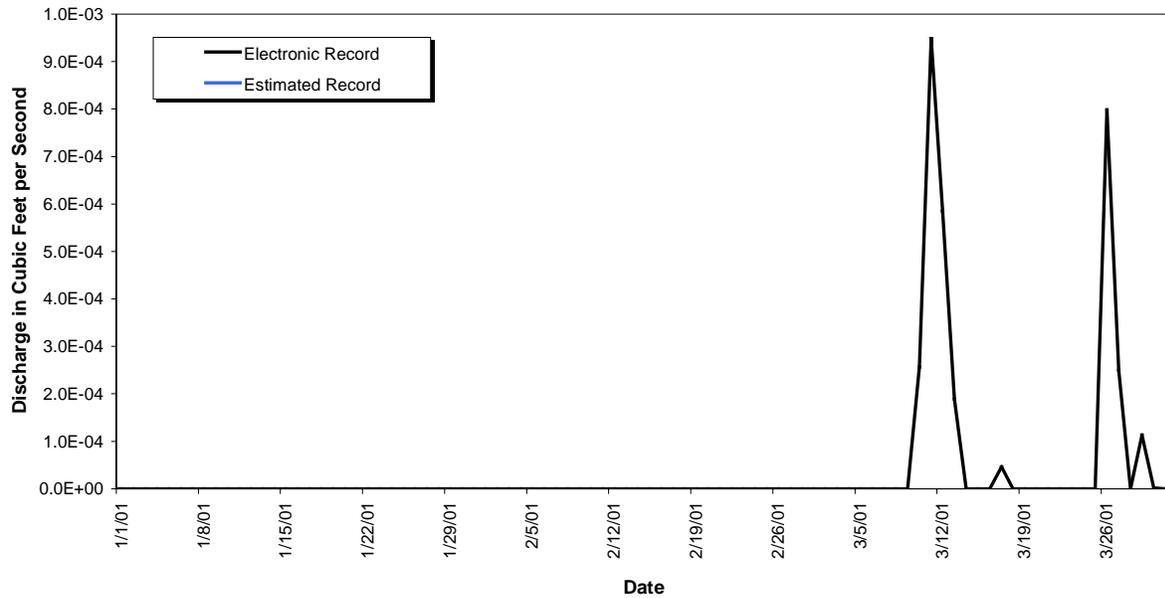


Figure 5-6. Mean Daily Discharge at GS27 Water Year 2001 (January, February, and March)

Table 5-7. Gaging Station GS31: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.000	0.000
24	0.000	0.000	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	0.000	NA	NA
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	0	0
Gallons	0	0	0
Acre-Feet	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.

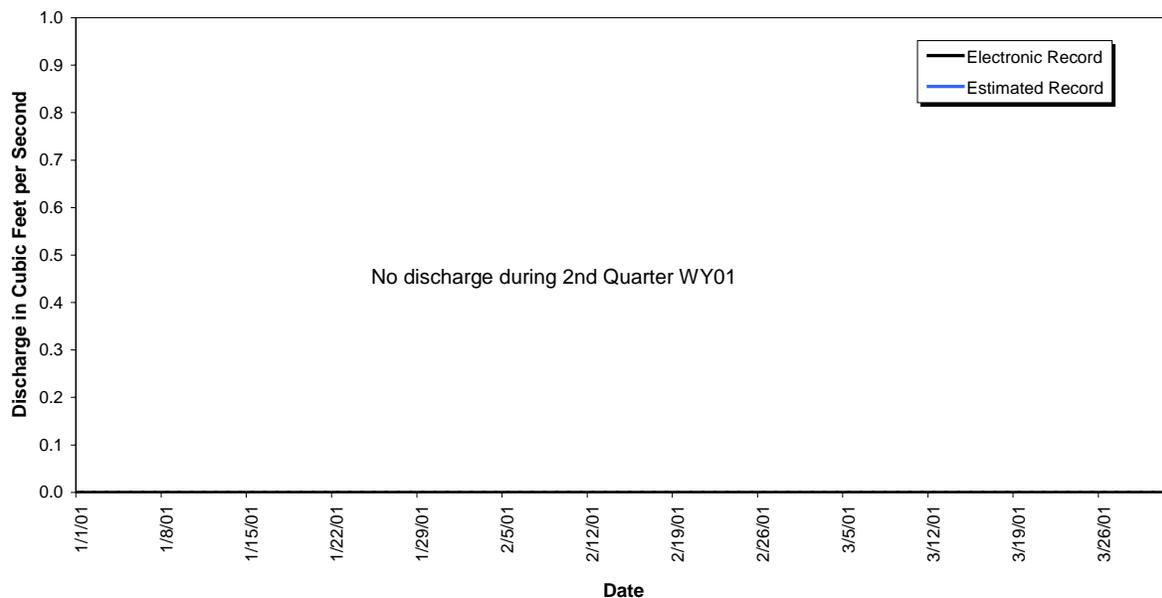


Figure 5-7. Mean Daily Discharge at GS31 Water Year 2001 (January, February, and March)

Table 5-8. Gaging Station GS39: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
10	0.0000	0.0000a	0.0110
11	0.0000	0.0001	0.0157
12	0.0000	0.0000	0.0046
13	0.0000	0.0000	0.0013
14	0.0000	0.0000	0.0000
15	0.0000	0.0015	0.0000
16	0.0000	0.0000a	0.0000
17	0.0000	0.0000a	0.0014
18	0.0000	0.0000a	0.0000
19	0.0000	0.0000	0.0000a
20	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0001
25	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0193
27	0.0000	0.0000	0.0012
28	0.0000	0.0000	0.0000
29	0.0000	NA	0.0046
30	0.0000	NA	0.0003
31	0.0000	NA	0.0011
Monthly Average (cfs)	0.000	0.000	0.002

Monthly Discharge

Cubic Feet	0	140	5237
Gallons	0	1048	39178
Acre-Feet	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 Contains data estimated from field observations and electronic record at adjacent or comparable gages.

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.

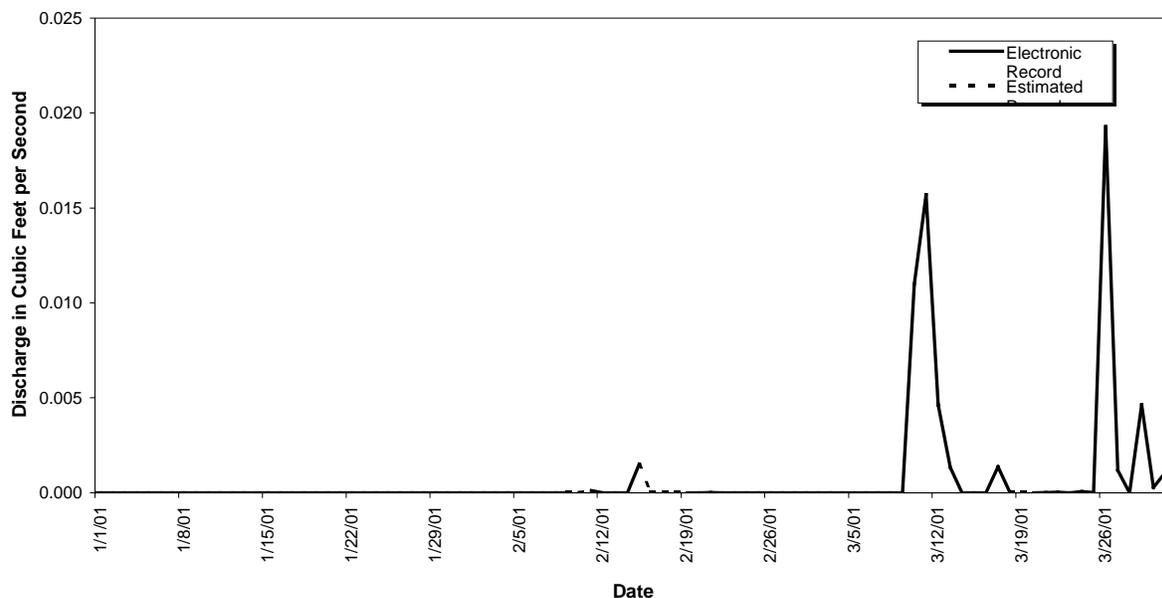


Figure 5-8. Mean Daily Discharge at GS39 Water Year 2001 (January, February, and March)

Table 5-9. Gaging Station GS40: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.014a	0.017a	0.032
2	0.012a	0.019	0.034
3	0.014a	0.020	0.034
4	0.014	0.015	0.034
5	0.013	0.016	0.033
6	0.013	0.015	0.022
7	0.014	0.016a	0.024
8	0.014a	0.024a	0.029
9	0.014a	0.019a	0.026
10	0.013	0.025a	0.140a
11	0.014	0.076	0.123
12	0.015	0.022	0.065a
13	0.014	0.016	0.094a
14	0.013	0.034	0.026a
15	0.013	0.051	0.026
16	0.030	0.019	0.024a
17	0.024a	0.020	0.078a
18	0.017a	0.021	0.027
19	0.013a	0.023	0.025
20	0.015a	0.025	0.027
21	0.014a	0.026	0.034
22	0.012a	0.025	0.029
23	0.016a	0.026	0.030
24	0.015a	0.027	0.034
25	0.016a	0.028	0.036
26	0.021	0.031	0.148
27	0.018	0.031	0.077
28	0.022	0.038	0.033
29	0.032a	NA	0.089
30	0.022	NA	0.036
31	0.018a	NA	0.067
Monthly Average (cfs)	0.016	0.026	0.050

Monthly Discharge

Cubic Feet	44016	62666	132720
Gallons	329266	468773	992816
Acre-Feet	1.01	1.44	3.05

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 Performance Monitoring Location monitoring water flowing from the 700 area to South Walnut Creek. This station samples for selected radionuclides using continuous, flow-paced sampling.

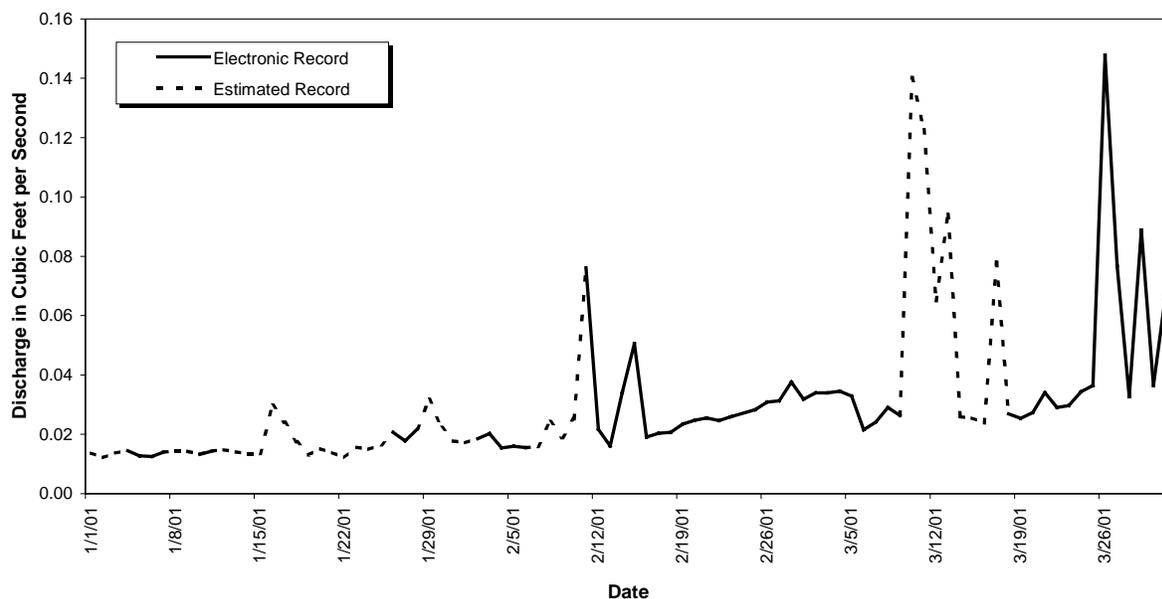


Figure 5-9. Mean Daily discharge at GS40 Water Year 2001 (January, February, and March)

Table 5-10. Gaging Station GS43: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.0000	0.0000	0.0000
2	0.0000	0.0006	0.0000
3	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000
17	0.0000a	0.0000	0.0000
18	0.0030	0.0000	0.0000a
19	0.0001a	0.0000	0.0000a
20	0.0001a	0.0000	0.0000
21	0.0000a	0.0000	0.0000
22	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000a
26	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0004
28	0.0000	0.0000	0.0001a
29	0.0000	NA	0.0000a
30	0.0000	NA	0.0002a
31	0.0000	NA	0.0000
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	275	51	61
Gallons	2059	383	457
Acre-Feet	0.01	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 Contains data estimated from field observations and electronic record at adjacent or comparable gages.

Gaging station GS43 is located in the ditch at the northeast corner of T886A. This location is a RFCA Performance Monitoring Location monitoring runoff from the eastern portion of the 800 area including Building 875, T886A, and the eastern half of Building 886. Water passing this monitoring location continues to South Walnut Creek. This station samples for selected radionuclides and metals using continuous, flow-paced sampling.

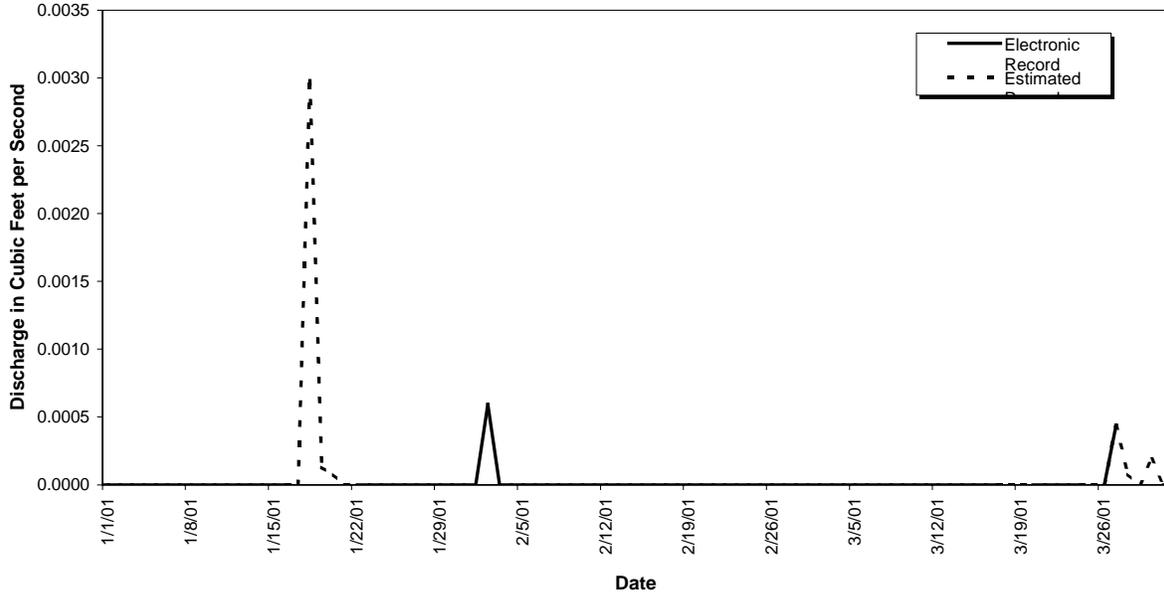


Figure 5-10. Mean Daily Discharge at GS43, Water Year 2001 (January, February, and March)

Table 5-11. Gaging Station GS44 Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.0008a	0.001a	0.0016a
2	0.0011a	0.002	0.0016a
3	0.0010a	0.002a	0.0017
4	0.0009a	0.001a	0.0017a
5	0.0008a	0.001	0.0017a
6	0.0007a	0.002a	0.0014
7	0.0008a	0.002a	0.0015
8	0.0008a	0.002a	0.0015a
9	0.0010a	0.002a	0.0013
10	0.0012a	0.002a	0.0130
11	0.0010a	0.005a	0.0136
12	0.0011a	0.002a	0.0050
13	0.0016a	0.002a	0.0084
14	0.0012a	0.002a	0.0022
15	0.0012a	0.004a	0.0022
16	0.0020a	0.002a	0.0020
17	0.0017a	0.002a	0.0058
18	0.0015a	0.002a	0.0020
19	0.0014a	0.002a	0.0020
20	0.0013a	0.002a	0.0018
21	0.0012a	0.002	0.0017
22	0.0013a	0.002	0.0017
23	0.0014a	0.002	0.0018
24	0.0014a	0.002a	0.0019
25	0.0018a	0.002	0.0024
26	0.0016a	0.002a	0.0151
27	0.0016a	0.002a	0.0077
28	0.0018a	0.002a	0.0025
29	0.0023a	NA	0.0081
30	0.0015a	NA	0.0025
31	0.0014a	NA	0.0047
Monthly Average (cfs)	0.001	0.002	0.004

Monthly Discharge

Cubic Feet	3502	4774	10545
Gallons	26200	35711	78881
Acre-Feet	0.08	0.11	0.24

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 GS44 is located at state plane 2083411, 751100 on a drainage ditch between T771F and T771L. This station is a Performance Monitoring Location and monitors runoff from the west side of B771 and includes B771 footing drain water. This station collects samples for selected radionuclides and water quality parameters using continuous flow-paced composite sampling.

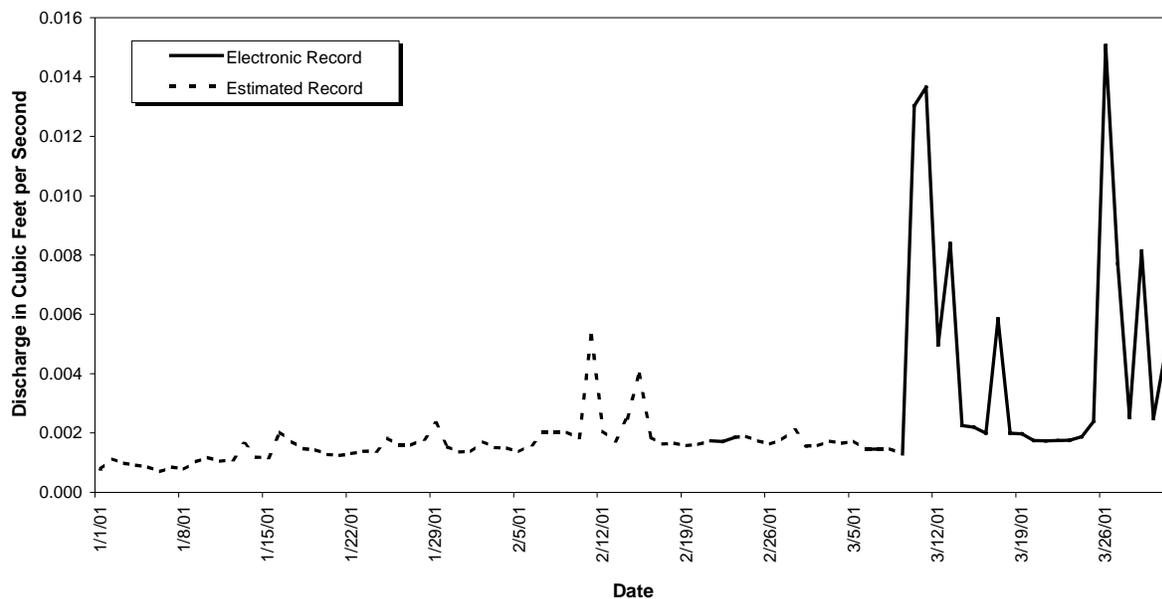


Figure 5-11. Mean Daily Discharge at GS44 Water Year 2001 (January, February, and March)

Table 5-12. Gaging Station GS49 Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.0000	0.0005a	0.0001
2	0.0000	0.0023a	0.0005
3	0.0000	0.0019a	0.0000
4	0.0000	0.0008a	0.0000
5	0.0000	0.0007	0.0000
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0055
11	0.0000	0.0088a	0.0079a
12	0.0000	0.0037a	0.0048a
13	0.0000	0.0009a	0.0118
14	0.0000	0.0021a	0.0007
15	0.0000	0.0060a	0.0000
16	0.0000	0.0000a	0.0000
17	0.0000a	0.0028a	0.0043a
18	0.0015a	0.0007a	0.0026a
19	0.0004a	0.0005a	0.0001a
20	0.0316a	0.0000a	0.0000
21	0.0050a	0.0007	0.0005
22	0.0000a	0.0000	0.0004
23	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0017
25	0.0000	0.0000	0.0010
26	0.0000	0.0000	0.0076
27	0.0000	0.0000	0.0086
28	0.0000	0.0018	0.0000
29	0.0001a	NA	0.0040
30	0.0205a	NA	0.0009a
31	0.0000a	NA	0.0026
Monthly Average (cfs)	0.002	0.001	0.002

Monthly Discharge

Cubic Feet	5112	2949	5670
Gallons	38238	22062	42417
Acre-Feet	0.12	0.07	0.13

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 GS49 is located at state plane 2083292, 750652 on a drainage ditch northwest of B566. This station is a Performance Monitoring location and has been installed in support of D&D activities for Building 776/777. This station monitors runoff from the west side of the B776/777 complex. The GS49 drainage area is approximately 3.3 acres. This station collects samples for selected isotopes, metals, tritium, and TSS using continuous flow-paced composite sampling.

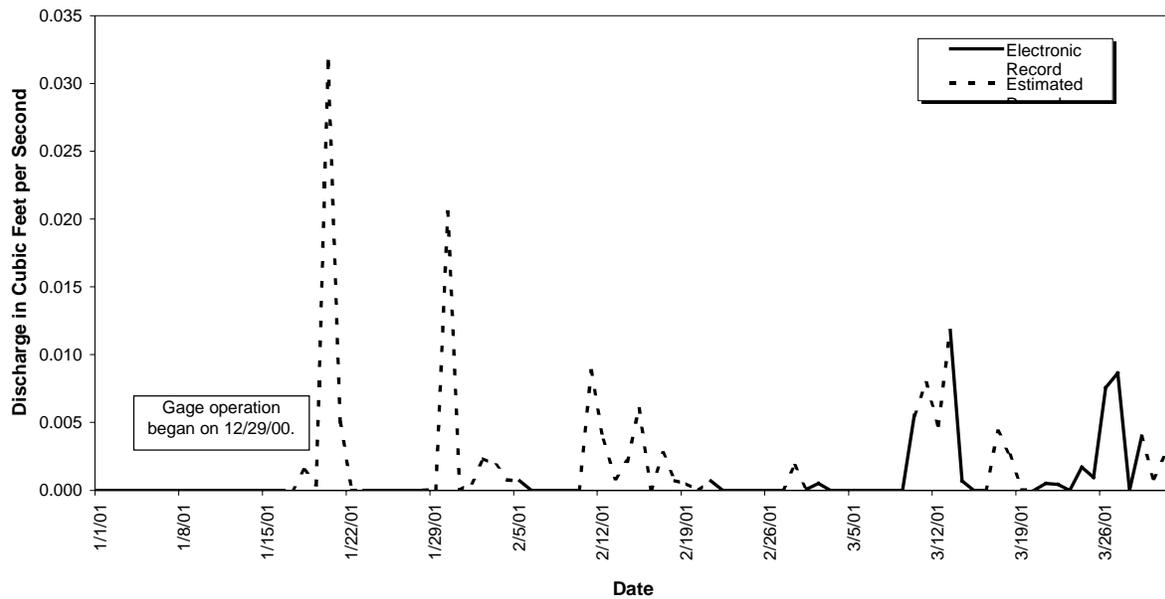


Figure 5-12. Mean Daily Discharge at GS49 Water Year 2001 (January, February, and March)

Table 5-13. Gaging Station GS995 POE Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.218	0.193	0.166
2	0.172	0.143	0.143
3	0.207	0.138	0.161
4	0.112	0.148	0.148
5	0.135	0.142	0.251
6	0.144	0.154	0.273
7	0.174	0.247	0.196
8	0.179	0.286	0.173
9	0.212	0.238	0.125
10	0.203	0.141	0.137
11	0.216	0.145	0.255
12	0.151	0.208	0.303
13	0.168	0.155	0.189
14	0.140	0.279	0.287
15	0.169	0.192	0.234
16	0.172	0.174	0.134
17	0.179	0.150	0.161
18	0.153	0.140	0.244
19	0.149	0.222	0.226
20	0.210	0.175	0.178
21	0.159	0.187	0.170
22	0.181	0.214	0.172
23	0.198	0.175	0.212
24	0.176	0.140	0.194
25	0.225	0.208	0.175
26	0.221	0.177	0.201
27	0.190	0.198	0.306
28	0.133	0.231	0.293
29	0.138	NA	0.127
30	0.199	NA	0.188
31	0.222	NA	0.195
Monthly Average (cfs)	0.178	0.186	0.201

Monthly Discharge

Cubic Feet	476036	449314	537035
Gallons	3561000	3361100	4017300
Acre-Feet	10.93	10.31	12.33

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

Gaging station 995POE is located on the Building 995 (WWTP) effluent flow stream at the V-notch weir immediately below the UV disinfection equipment. This station is a RFCA Action Level Framework Point of Evaluation and monitors effluent from the Site wastewater treatment plant. This station collects samples for selected radionuclides using continuous flow-paced composite sampling.

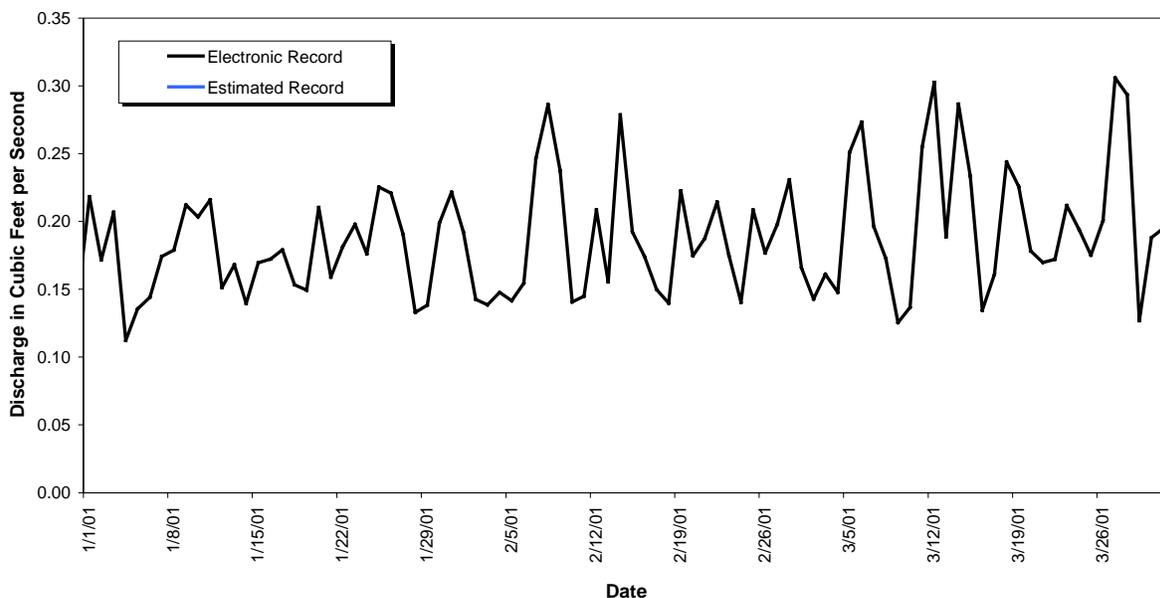


Figure 5-13. Mean Daily Discharge at GS995 POE Water Year 2001 (January, February, and March)

Table 5-14. Gaging Station SW022: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000a	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000a	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.094
11	0.000	0.000	0.140a
12	0.000a	0.000	0.015a
13	0.000	0.000a	0.023
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.009
18	0.000a	0.000	0.000a
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.000	0.000
24	0.000	0.000	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.099a
27	0.000	0.000	0.019
28	0.000a	0.000	0.000
29	0.000	NA	0.039
30	0.000	NA	0.007
31	0.000	NA	0.000
Monthly Average (cfs)	0.000	0.000	0.014

Monthly Discharge

Cubic Feet	0	0	38350
Gallons	0	0	286880
Acre-Feet	0.00	0.00	0.88

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 SW022 is located 39° 53' 30"N, 105° 11' 30"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.

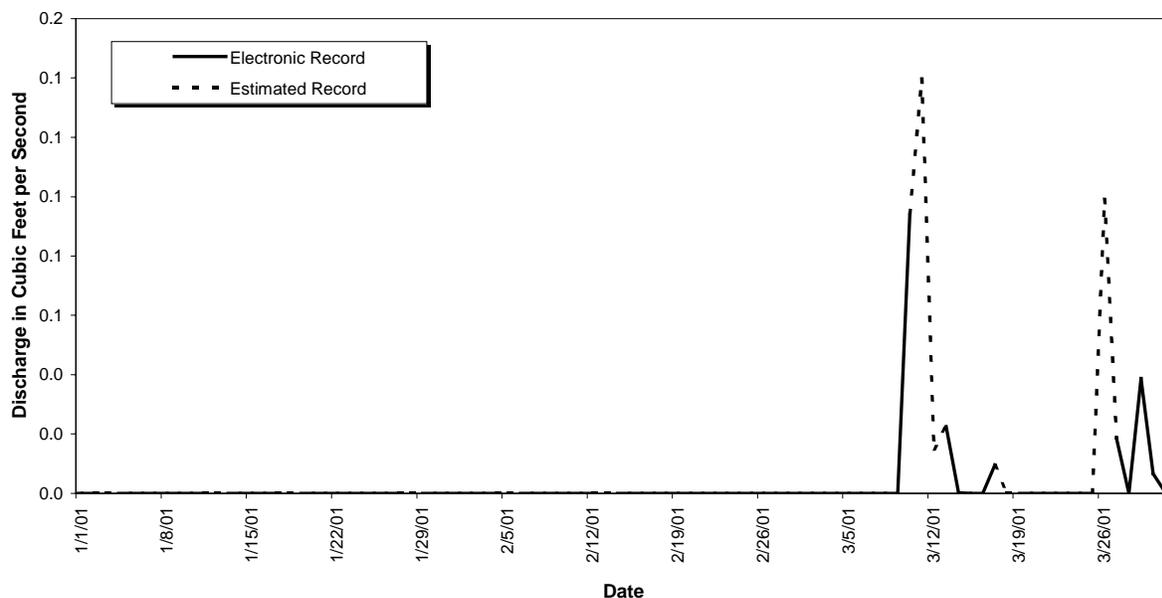


Figure 5-14. Mean Daily Discharge at SW022, Water Year 2001 (January, February, and March)

Table 5-15. Gaging Station SW027: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.126
13	0.000	0.000	0.244
14	0.000	0.000	0.143
15	0.000	0.000	0.029
16	0.000	0.000	0.015
17	0.000	0.000	0.012
18	0.000	0.000	0.011
19	0.000	0.000	0.013
20	0.000	0.000	0.008
21	0.000	0.000	0.003
22	0.000	0.000	0.000
23	0.000	0.000	0.000
24	0.000	0.000	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.092
28	0.000	0.000	0.064
29	0.000	NA	0.019
30	0.000	NA	0.053
31	0.000	NA	0.021
Monthly Average (cfs)	0.000	0.000	0.027

Monthly Discharge

Cubic Feet	0	0	73622
Gallons	0	0	550729
Acre-Feet	0.00	0.00	1.69

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° 53' 12" N, 105° 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.

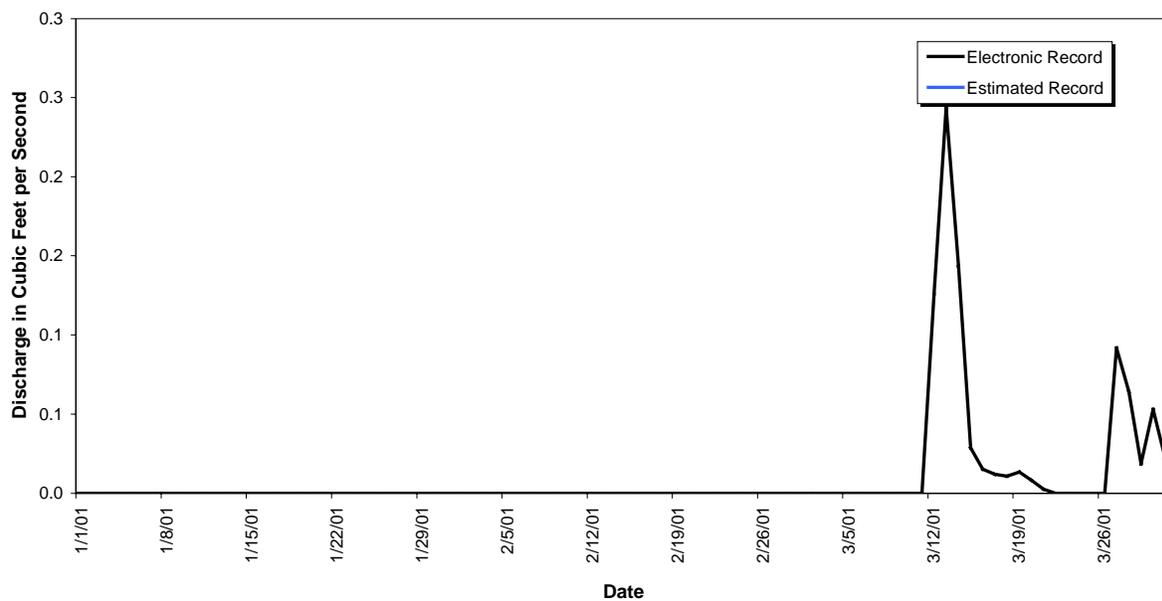


Figure 5-15. Mean Daily Discharge at SW027, Water Year 2001 (January, February, and March)

Table 5-16. Gaging Station SW091: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000
29	0.0000	NA	0.0000
30	0.0000	NA	0.0000
31	0.0000	NA	0.0000
Monthly Average (cfs)	0.000	0.000	0.000

Monthly Discharge

Cubic Feet	0	0	0
Gallons	0	0	0
Acre-Feet	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 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.

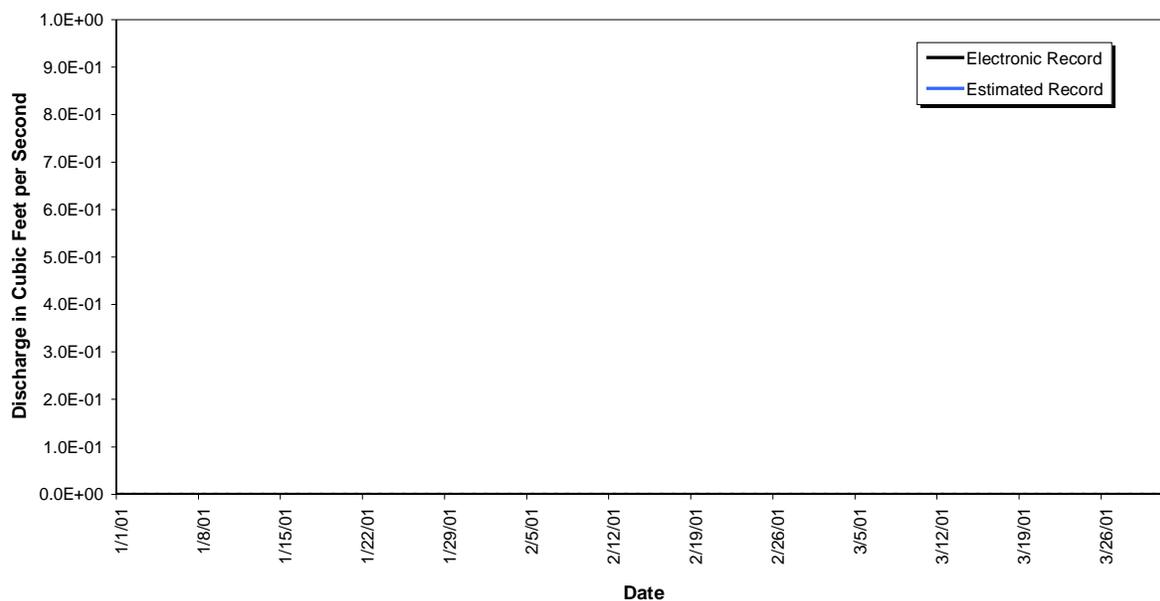


Figure 5-16. Mean Daily Discharge at SW091, Water Year 2001 (January, February, and March)

Table 5-17. Gaging Station SW093: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.064	0.061	0.110
2	0.063	0.081	0.107
3	0.066	0.102	0.103
4	0.072	0.093	0.103
5	0.076	0.106	0.103
6	0.076	0.093	0.118
7	0.062	0.079	0.111
8	0.056	0.064	0.106
9	0.057	0.062	0.105
10	0.066	0.072	0.442
11	0.063	0.131	0.522
12	0.064	0.105	0.386
13	0.066	0.095	0.364
14	0.065	0.106	0.208
15	0.061	0.120	0.143
16	0.066	0.094	0.118
17	0.073	0.104	0.231
18	0.069	0.113	0.144
19	0.062	0.139	0.128
20	0.070	0.121	0.128
21	0.065	0.123	0.127
22	0.071	0.129	0.119
23	0.071	0.128	0.106
24	0.070	0.130	0.100
25	0.072	0.120	0.100
26	0.074	0.118	0.429
27	0.067	0.113	0.280
28	0.051	0.110	0.151
29	0.073	NA	0.249
30	0.061	NA	0.184
31	0.054	NA	0.195
Monthly Average (cfs)	0.066	0.104	0.188

Monthly Discharge

Cubic Feet	176694	251665	502793
Gallons	1321766	1882585	3761155
Acre-Feet	4.06	5.78	11.54

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

Gaging Station SW093 is located 39° 53' 51"N, 105° 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.

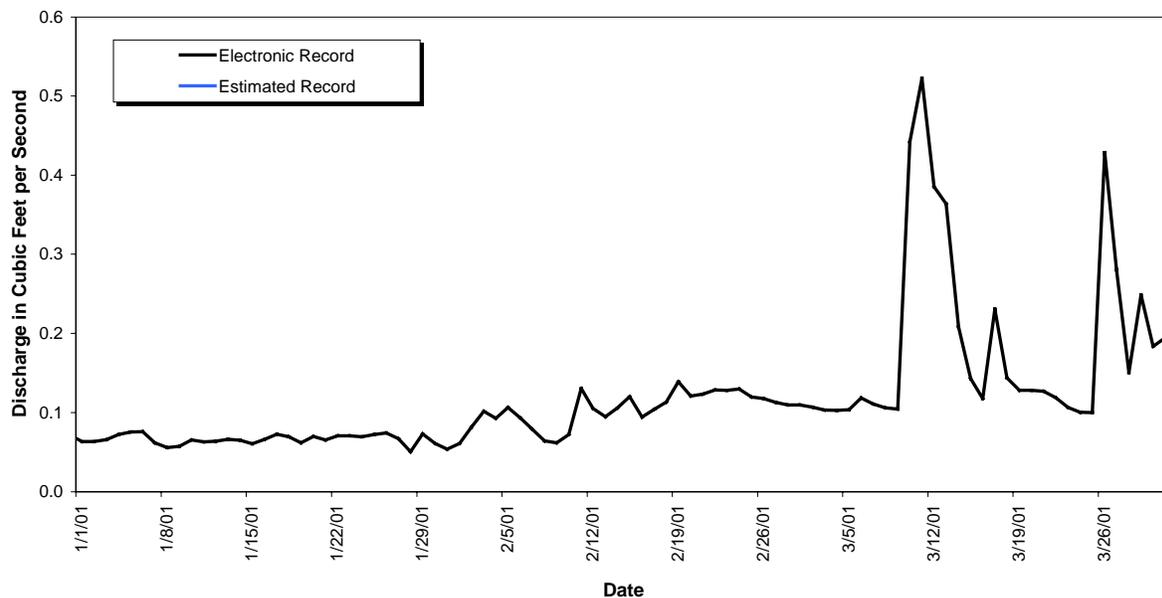


Figure 5-17. Mean Daily Discharge at SW093, Water Year 2001 (January, February, and March)

Table 5-18. Gaging Station SW120: Mean Daily Discharge (cubic feet per second)

Day	Jan-01	Feb-01	Mar-01
1	0.0000	0.000	0.0000
2	0.0000	0.002	0.0000
3	0.0000	0.006a	0.0000
4	0.0003	0.003a	0.0000
5	0.0024a	0.005a	0.0000
6	0.0017a	0.001a	0.0000
7	0.0000a	0.000a	0.0000
8	0.0000	0.000	0.0000
9	0.0000	0.000	0.0000
10	0.0000	0.000	0.0085
11	0.0000	0.001a	0.0168
12	0.0000	0.004a	0.0163a
13	0.0000	0.005a	0.0123
14	0.0000	0.001a	0.0054
15	0.0000	0.004a	0.0009a
16	0.0000	0.000a	0.0000
17	0.0000	0.004a	0.0031
18	0.0000	0.006a	0.0030a
19	0.0000	0.012a	0.0000a
20	0.0000	0.006a	0.0000
21	0.0000	0.004a	0.0000
22	0.0000	0.003a	0.0000
23	0.0000	0.005a	0.0000
24	0.0000	0.003a	0.0000
25	0.0000	0.000a	0.0000
26	0.0000	0.000	0.0129
27	0.0000	0.000	0.0093
28	0.0000	0.000	0.0013
29	0.0000	NA	0.0022
30	0.0000	NA	0.0044
31	0.0000	NA	0.0000
Monthly Average (cfs)	0.000	0.003	0.003

Monthly Discharge

Cubic Feet	384	6438	8328
Gallons	2874	48157	62295
Acre-Feet	0.01	0.15	0.19

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 SW120 is located at state plane 2084681.6 E 751269 N, in the drainage ditch north of the Solar Ponds along the south side of the PA Perimeter Road. This location is a Performance monitoring location in support of D&D activities for the B771/774 area. SW120 also serves as a Source Location monitoring point in support of Source Evaluation efforts for POE SW093. This location collects continuous flow-paced samples that are analyzed for Pu, U, Am, CLP metals, and TSS.

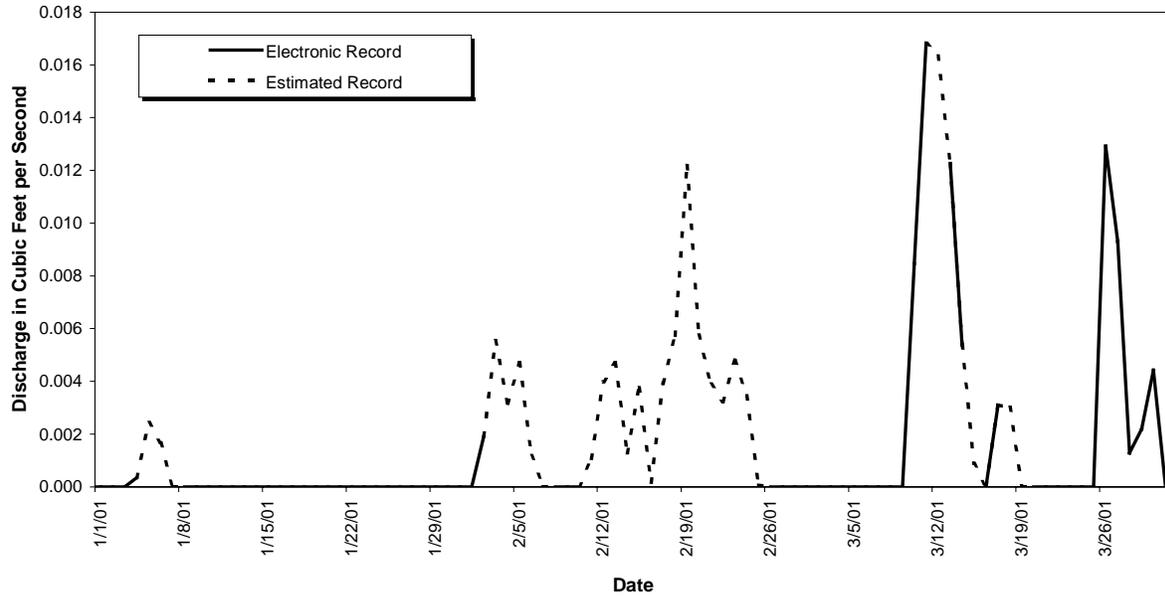


Figure 5-18. Mean Daily Discharge at SW120, Water Year 2001 (January, February, and March)

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5.2 WATER QUALITY DATA

Table 5-19. Radionuclides, Water Year 2001 (January, February, and March)

Location	Sample Dates	Result (MDA) Pu-239, -240 [pCi/l]	Result (MDA) Am-241 [pCi/l]	Result (MDA) Total Uranium [pCi/l]	Result (MDA) Tritium [pCi/l]
GS01	12/1 - 12/14/00	0.002	0.000	a	-84
GS01	12/14/00 - 1/2/01	0.016	0.008	a	-38
GS01	1/2 - 1/15/01	0.001	0.005	a	67
GS01	1/15 - 1/22/01	0.005	-0.004	a	70
GS01	1/22 - 2/1/01	-0.014	0.001	a	130
GS01	2/1 - 2/14/01	0.011	-0.001	a	28
GS01	2/14 - 2/28/01	0.006	-0.004	a	-32
GS01	2/28 - 3/15/01	0.005	-0.004	a	-76
GS01	3/15 - 3/27/01	-0.004	0.002	a	c
GS01	3/27 - 4/3/01	0.005	0.001	a	-79
GS03	11/13 - 11/16/00	0.008	-0.002	a	b
GS03	11/16 - 11/18/00	0.023	0.006	a	b
GS03	11/18 - 11/24/00	-0.003	-0.005	a	176
GS03	11/24 - 11/30/00	0.007	0.003	a	140
GS03	11/30/00 - 1/11/01	d	d	a	d
GS03	1/11 - 1/17/01	0.013	-0.001	a	-120
GS03	1/17 - 1/23/01	-0.003	0.003	a	-36
GS03	1/23 - 3/12/01	d	d	a	d
GS03	3/12 - 3/16/01	0.015	-0.006	a	15
GS03	3/16 - 3/23/01	0.016	0.006	a	65
GS03	3/23 - 4/16/01	c	c	a	c
GS08	1/11 - 1/16/01	0.013	0.011	0.995	a
GS08	1/16 - 1/22/01	0.019	0.005	0.876	a
GS08	3/12 - 3/16/01	0.002	0.002	1.135	a
GS08	3/16 - 3/23/01	0.008	-0.004	1.011	a
GS10	11/17 - 12/15/00	0.008	0.012	3.944	a
GS10	12/15/00 - 1/8/01	0.054	0.022	4.677	a
GS10	1/8 - 2/6/01	0.017	0.017	5.080	a
GS10	2/6 - 2/15/01	0.092	0.037	3.680	a
GS10	2/15 - 2/28/01	0.005	0.024	4.999	a

- a Not applicable
- b Analysis lost in lab
- c Incomplete analysis
- d Non-sufficient quantity
- e Composite sample in progress

Table 5-19. Radionuclides, Water Year 2001 (January, February, and March), continued

Location	Sample Dates	Result Pu-239, -240 [pCi/l]	Result Am-241 [pCi/l]	Result Total Uranium [pCi/l]	Result Tritium [pCi/l]
GS10	2/28 - 3/15/01	0.060	0.062	3.365	a
GS10	3/15 - 3/27/01	0.049	0.064	4.479	a
GS10	3/27 - 4/9/01	0.064	0.036	5.207	a
GS27	3/10/01	0.585	0.157	0.203	b
GS32	10/22/00	0.410	0.730	0.848	b
GS32	1/18/01	0.507	0.739	3.614	c
GS32	3/10/01	0.497	0.823	2.425	c
GS39	10/5/00 - 2/15/01	0.640	0.083	a	a
GS39	2/15 - 4/12/01	0.205	0.047	a	a
GS40	11/29/00 - 1/9/01	0.013	0.020	3.805	73
GS40	1/9 - 2/7/01	0.008	0.020	3.928	-72
GS40	2/7 - 3/13/01	0.085	0.069	2.560	46
GS40	3/13 - 4/6/01	0.027	0.016	2.534	-108
GS43	10/16/00 - 4/16/01	c	c	c	a
GS44	10/4 - 10/30/00	0.010	0.010	2.545	b
GS44	10/30 - 12/5/00	-0.008	-0.002	3.669	33
GS44	12/5/00 - 2/23/01	d	d	d	d
GS44	2/23 - 3/13/01	0.000	-0.001	4.461	15
GS44	3/13 - 4/6/01	0.054	0.064	2.678	-171
GS49	2/11 - 3/13/01	0.003	0.003	0.202	77
GS49	3/13 - 4/10/01	0.021	0.018	0.270	-78
SW022	10/5/00 - 3/18/01	0.031	-0.004	0.580	a
SW022	3/18 - 4/12/01	0.144	0.041	1.171	a
SW027	9/28/00 - 3/14/01	-0.007	0.004	2.269	a
SW027	3/14 - 4/12/01	-0.004	0.003	2.210	a
SW093	12/4 - 12/19/00	-0.001	-0.002	2.036	a
SW093	12/19/00 - 1/8/01	-0.002	-0.007	3.709	a
SW093	1/8 - 2/1/01	0.018	-0.004	3.482	a
SW093	2/1 - 2/19/01	0.006	0.017	3.782	a
SW093	2/19 - 2/28/01	-0.002	-0.001	3.964	a
SW093	2/28 - 3/12/01	-0.002	0.013	2.758	a
SW093	3/12 - 3/20/01	0.020	0.000	2.319	a
SW093	3/20 - 3/27/01	0.022	0.026	2.613	a
SW093	3/27 - 4/2/01	0.000	0.006	2.275	a
SW120	10/5/00 - 2/23/01	0.008	0.001	6.458	250

- a Not applicable
- b Not collected
- c Incomplete analysis
- d Non-sufficient quantity
- e Composite sample in progress

Table 5-19. Radionuclides, Water Year 2001 (January, February, and March), continued

Location	Sample Dates	Result Pu-239, -240 [pCi/l]	Result Am-241 [pCi/l]	Result Total Uranium [pCi/l]	Result Tritium [pCi/l]
SW120	2/23 - 3/13/01	0.023	0.000	10.198	258
SW120	3/13 - 4/11/01	0.014	0.009	8.259	156
995POE	11/28 - 12/29/00	0.000	-0.006	0.331	-110
995POE	12/29/00 - 2/6/01	-0.009	-0.004	0.330	-94
995POE	2/6 - 3/12/01	0.020	0.007	0.382	-16
995POE	3/12 - 4/9/01	-0.005	0.003	0.549	-140

Table 5-20. POE Metals, Water Year 2001 (January, February, and March)

Location	Sample Dates	Analyte Be ug/L	Analyte Dissolved Cd ug/L	Analyte Cr ug/L	Analyte Dissolved Ag ug/L
GS10	1/8 - 2/6/01	0.03	0.2	1	<0.15
GS10	2/6 - 2/15/01	0.21	0.37	3.5	<0.15
GS10	2/15 - 2/28/01	0.1	0.32	0.81	<0.15
GS10	2/28 - 3/15/01	0.17	0.4	5.9	0.19
GS10	3/15 - 3/27/01	0.2	0.12	5.8	<0.15
GS10	3/27 - 4/9/01	0.18	0.11	2.4	<0.15
SW027	9/28/00 - 3/14/01	<0.02	0.15	0.3	<0.15
SW027	3/14 - 4/12/01	0.19	<0.08	0.95	<0.15
SW093	1/8 - 2/1/01	0.02	<0.08	0.75	<0.15
SW093	2/1 - 2/19/01	0.07	0.12	0.92	<0.15
SW093	2/19 - 2/28/01	0.06	0.12	0.31	<0.15
SW093	2/28 - 3/12/01	0.18	0.24	5.7	<0.15
SW093	3/12 - 3/20/01	<0.02	0.3	1.6	0.19
SW093	3/20 - 3/27/01	0.08	0.1	2.2	<0.15
SW093	3/27 - 4/2/01	0.09	0.14	2.5	<0.15

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Table 5-21. Other Metals, Water Year 2001 (January, February, and March)

Analyte ug/l	Result GS32, 03/01/01	Result GS40, 11/29/00 – 01/09/01	Result GS40, 01/09/01 – 02/07/01	Result GS40, 02/07/01 – 03/13/01	Result GS40, 03/13/01 – 04/06/01
Aluminum	15600	906	546	8390	3810
Antimony	10.5	6.7	6.8	25.8	22.9
Arsenic	4.8	2.4	1.5	4.4	2
Barium	189	501	348	667	379
Beryllium	0.7	0.12	0.1	0.52	0.31
Cadmium	1.4	1.5	0.85	2.4	0.87
Calcium	64800	19000	106000	194000	119000
Chromium	16.9	1.2	0.84	8.2	5
Cobalt	4.1	1.7	1.4	2.9	1.6
Copper	48	5.6	4.2	19.9	8.8
Iron	12700	4470	2720	10300	4210
Lead	24.1	1.2	0.55	9	4.5
Lithium	66.4	30.8	16.1	73.2	39.5
Magnesium	9830	45700	31300	43000	20400
Manganese	346	2210	1240	1660	680
Mercury	<0.10	<0.10	<0.10	<0.10	<0.10
Molybdenum	3.4	2.1	2.2	1.4	1.4
Nickel	13	2.8	2.2	7.8	4.3
Potassium	26600	21200	18500	39600	22500
Selenium	<1.1	0.83	0.83	<1.1	<1.1
Silver	<0.12	<0.12	<0.12	<0.12	<0.12
Sodium	1090000	1010000	658000	1330000	687000
Strontium	446	1330	884	1880	769
Thallium	<0.95	<0.95	<0.95	<0.95	<0.95
Tin	0.95	<0.58	<0.58	1.4	<0.58
Vanadium	30.3	2.5	1.3	14.2	8.1
Zinc	3850	361	244	656	328

Table 5-21. Other Metals, Water Year 2001 (January, February, and March) continued

Analyte ug/l	Result GS43, 10/16/00 – 04/16/01	Result GS44, 12/05/00 – 02/23/01	Result GS44, 02/23/01 – 03/13/01	Result GS44, 03/12/01 – 04/06/01	Result GS49, 02/11/01 – 03/13/01
Aluminum	304	a	75.6	7880	5610
Antimony	0.91	a	0.7	1	0.85
Arsenic	<0.5	a	0.88	2.7	2.4
Barium	86.2	a	373	173	149
Beryllium	0.13	a	0.08	0.49	0.27
Cadmium	0.12	a	<0.08	<0.08	0.68
Calcium	40300	a	224000	75300	35500
Chromium	1.2	a	1.3	7.2	5.5
Cobalt	<1.0	a	<1.0	1.2	1.3
Copper	2.7	a	2.2	11.6	24.4
Iron	211	a	53.7	5080	3300
Lead	<0.5	a	<0.5	4.9	2.7
Lithium	10.6	a	182	74.8	9.5
Magnesium	16000	a	33300	12300	4630
Manganese	4.3	a	2.1	63.2	108
Mercury	<0.10	a	<0.10	<0.10	<0.10
Molybdenum	3.3	a	2	1.8	0.71
Nickel	2	a	4	6.2	5.4
Potassium	4410	a	14100	24300	6290
Selenium	1.5	a	1.5	2.4	<0.5
Silver	<0.12	a	<0.12	<0.12	<0.12
Sodium	40400	a	227000	204000	240000
Strontium	421	a	1220	413	162
Thallium	<0.95	a	<0.95	<0.95	<0.95
Tin	<0.85	a	0.61	2	0.82
Vanadium	2.2	a	1.2	14.8	8.9
Zinc	158	a	112	168	552

a Incomplete analysis

Table 5-21. Other Metals, Water Year 2001 (January, February, and March) continued

Analyte ug/l	Result GS49, 03/13/01 – 04/10/01	Result SW120, 10/05/00 – 02/23/01	Result SW120, 02/23/01 – 03/13/01	Result SW120, 03/13/01 – 04/11/01
Aluminum	5740	84.5	63.7	129
Antimony	<0.42	2.1	0.88	1.4
Arsenic	2.9	<0.5	1.1	<0.5
Barium	48.3	186	172	249
Beryllium	0.32	<0.08	0.18	0.19
Cadmium	0.18	0.33	<0.08	<0.08
Calcium	8190	99100	108000	159000
Chromium	6.4	0.42	0.96	0.47
Cobalt	0.91	<1.0	0.39	0.36
Copper	23.8	8.5	4.5	2.9
Iron	3760	103	66.4	102
Lead	4	2.3	<0.5	<0.5
Lithium	6.7	54.5	59.2	63
Magnesium	1720	23900	27900	32100
Manganese	57.1	44.8	3.3	17.1
Mercury	<0.10	0.15	<0.10	<0.10
Molybdenum	0.88	2.1	1.2	0.88
Nickel	4.3	2.2	2.2	2.6
Potassium	2620	12700	13100	18800
Selenium	1.7	<0.5	<0.5	0.89
Silver	<0.12	<0.12	<0.12	<0.12
Sodium	66700	258000	202000	361000
Strontium	39.7	659	766	922
Thallium	<0.95	<0.95	<0.95	<0.95
Tin	<0.85	1.6	<0.85	<0.85
Vanadium	9.7	0.71	0.33	0.54
Zinc	226	12.5	12.8	20.4

Table 5-22. Water Quality Parameters, Water Year 2001 (January, February, and March)

Location	Sample Dates	Analyte Hardness mg/L
GS10	1/8 - 2/6/01	350
GS10	2/6 - 2/15/01	300
GS10	2/15 - 2/28/01	450
GS10	2/28 - 3/15/01	290
GS10	3/15 - 3/27/01	360
GS10	3/27 - 4/9/01	a
SW027	9/28/00 - 3/14/01	390
SW027	3/14 - 4/12/01	a
SW093	1/8 - 2/1/01	340
SW093	2/1 - 2/19/01	370
SW093	2/19 - 2/28/01	380
SW093	2/28 - 3/12/01	350
SW093	3/12 - 3/20/01	380
SW093	3/20 - 3/27/01	380
SW093	3/27 - 4/2/01	a

a Incomplete analysis

6.0 INCIDENTAL WATERS

6.1 INCIDENTAL WATERS DEFINITION AND ROUTING MATRIX

An incidental water is defined as precipitation, surface water, groundwater, utility water, process water, or waste water collecting in one or more of several types of containments. These containments can include excavation sites, foundation drains, secondary containment berms, electrical vaults, utility pits and manholes, or other natural or manmade depressions, which must be dewatered.

Water collected in this manner has the potential to become contaminated via contact with the surrounding containment material. Sampling and disposition of incidental waters is conducted per Site Procedure 1-C91-EPR-SW.01, *Control and Disposition of Incidental Waters*. Incidental waters are typically sampled for pH, nitrates, conductivity, and gross alpha and gross beta (when radionuclides are suspected). Additional testing for volatile organic compounds and metals is performed when a specific potential contaminant source is known to exist. Disposition depends on the analytical results. Routing options for incidental waters are outlined in the following table.

Table 6-1. Incidental Waters Routing Matrix

Incidental Water Routing	Routing Criteria	Treatment Processes
Ground/Storm Drain	<ul style="list-style-type: none"> Water meets discharge limits per Incidental Waters procedure 	N/A
Building 995 Waste Water Treatment Plant (WWTP)	<ul style="list-style-type: none"> Water above discharge to ground limits Water meets Internal Waste Streams Program review criteria 	Activated Sludge w/ tertiary clarifiers Dual media filtration UV disinfection
Building 891 Consolidated Water Treatment Facility (CWTF)	<ul style="list-style-type: none"> Water above discharge to ground limits Water not accepted by WWTP Water meets CWTF acceptance criteria and has both radionuclide and organic constituents 	Chemical precipitation Microfiltration UV/ peroxide oxidation Granular activated carbon Ion exchange
Building 374	<ul style="list-style-type: none"> Water above discharge to ground limits Water not accepted by WWTP Water has radionuclides, but no organic constituents 	Flash evaporation (Steam-heated reactor with spray evaporation)

6.2 QUARTERLY INCIDENTAL WATER DISPOSITIONS

Thirty-three incidental waters were sampled/dispositioned during the second quarter of FY01. The following table summarizes the location and route of disposal.

Table 6-2. Quarterly Incidental Water Dispositions FY2001 (January, February, and March)

Location/ Building	Location Type	Location Description	# of Incidental Waters	Route of Disposal
14	Manhole	Utilities Manhole	1	Discharge to ground
371	Fire Suppression System	Rm 2308	1	Discharge to ground
440	Excavation	440 Addition	1	No water to sample or disposition
440	Excavation	Old culvert	1	Discharge to ground
447	Fire Suppression System	Water collected from pipe flushing	1	Discharge to ground
559	Fire Suppression System	Draining water line to perform maintenance	1	Discharge to ground
559	Steam Line	Broken steam line outside of bldg.	1	Discharge to ground
7	Manhole	Telecommunications manhole	1	Discharge to ground
707	Fire Suppression System	Cold area of bldg.	1	Discharge to ground
709	Utility Pit	709 cooling tower	1	Treatment (B374)
712	Cooling Tower	Cooling tower being dismantled	1	Treatment (B374)
713	Cooling Tower	Cooling tower being dismantled	1	Treatment (B995)
713A	Utility Pit	Valve pit for nearby cooling towers	1	Discharge to ground
750	Excavation	Excavation to repair leaking fire suppression line	1	Discharge to ground
771	Compressor	Rain water collected in containment area	1	Discharge to ground

Table 6-2 (cont'd). Quarterly Incidental Water Dispositions FY2001 (January, February, and March)

Location/ Building	Location Type	Location Description	# of Incidental Waters	Route of Disposal
771	Drums	55-gallon drums on roof	5	Discharge to ground
771	Drums	55-gallon drums on roof	3	Treatment (B995)
774	Sump	Groundwater in sump	1	No water to sample or disposition
875	Foundation Drain	Bldg. drain	1	Discharge to ground
881	Drum	Rainwater collected from roof	1	Treatment (B995)
883	Excavation	SW of 883, water main	1	Discharge to ground
886	Foundation Drain	Building Drains	1	Discharge to ground
928	Fire Suppression System	Piping	1	Discharge to ground
966	Secondary containment	966 Decon Pad	1	Treatment (B995)
991	Drums	55-gallon drums	2	Treatment (B374)
Buffer Zone	Tank	300 gallon tank	1	Discharge to ground

The 10 incidental waters requiring treatment were routed to the following Site treatment facilities:

- Building 995 – WWTP 6
- Building 891 – CWTF 0
- Building 374 4