

CHRISTINA RIVER BASIN

01479676 RUNOFF TO UNNAMED TRIBUTARY TO WEST BRANCH RED CLAY CREEK AT KENNETT SQUARE, PA
(New Garden Township, Chester County, Spray Irrigation Project)

LOCATION.--Lat 39°50'52", long 75°43'42", Chester County, Hydrologic unit 02040205, 125 ft upstream from station 01479678, and 725 ft upstream from confluence with West Branch Red Clay Creek, at Kennett Square Borough.

DRAINAGE AREA.--0.03 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 335 ft above sea level, from topographic map.

REMARKS.--Records poor. No flow occurred for all or parts of July 6-31; Aug. 1-26, 31; Sept. 1-5, 13-16. Other data for this project presented in tables on pages 332-337 and 412-428.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	.000	.000
2	---	---	---	---	---	---	---	---	---	---	.000	.000
3	---	---	---	---	---	---	---	---	---	---	.000	.000
4	---	---	---	---	---	---	---	---	---	---	.000	.000
5	---	---	---	---	---	---	---	---	---	---	.000	.117
6	---	---	---	---	---	---	---	---	---	---	.000	.005
7	---	---	---	---	---	---	---	---	---	.000	.000	.005
8	---	---	---	---	---	---	---	---	---	.000	.000	.005
9	---	---	---	---	---	---	---	---	---	.000	.000	.005
10	---	---	---	---	---	---	---	---	---	.000	.000	.005
11	---	---	---	---	---	---	---	---	---	.000	.000	.004
12	---	---	---	---	---	---	---	---	---	.000	.000	.004
13	---	---	---	---	---	---	---	---	---	.000	.000	.002
14	---	---	---	---	---	---	---	---	---	.000	.000	.000
15	---	---	---	---	---	---	---	---	---	.000	.000	.000
16	---	---	---	---	---	---	---	---	---	.000	.000	2.3
17	---	---	---	---	---	---	---	---	---	.000	.000	e.011
18	---	---	---	---	---	---	---	---	---	.000	.000	e.006
19	---	---	---	---	---	---	---	---	---	.000	.000	e.005
20	---	---	---	---	---	---	---	---	---	.000	.000	e.008
21	---	---	---	---	---	---	---	---	---	.000	.000	.071
22	---	---	---	---	---	---	---	---	---	.000	.000	.031
23	---	---	---	---	---	---	---	---	---	.000	.000	.015
24	---	---	---	---	---	---	---	---	---	.000	.000	.017
25	---	---	---	---	---	---	---	---	---	.000	.000	.014
26	---	---	---	---	---	---	---	---	---	.000	.159	.014
27	---	---	---	---	---	---	---	---	---	.000	.005	.014
28	---	---	---	---	---	---	---	---	---	.000	.004	.014
29	---	---	---	---	---	---	---	---	---	.000	.004	.014
30	---	---	---	---	---	---	---	---	---	.000	.004	.127
31	---	---	---	---	---	---	---	---	---	.000	.003	---
TOTAL	---	---	---	---	---	---	---	---	---	---	0.179	2.813
MEAN	---	---	---	---	---	---	---	---	---	---	.006	.094
MAX	---	---	---	---	---	---	---	---	---	---	.159	2.3
MIN	---	---	---	---	---	---	---	---	---	---	.000	.000

e Estimated.

CHRISTINA RIVER BASIN

01479676 RUNOFF TO UNNAMED TRIBUTARY TO WEST BRANCH RED CLAY CREEK AT KENNETT SQUARE, PA--Continued
(New Garden Township, Chester County, Spray Irrigation Project)DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

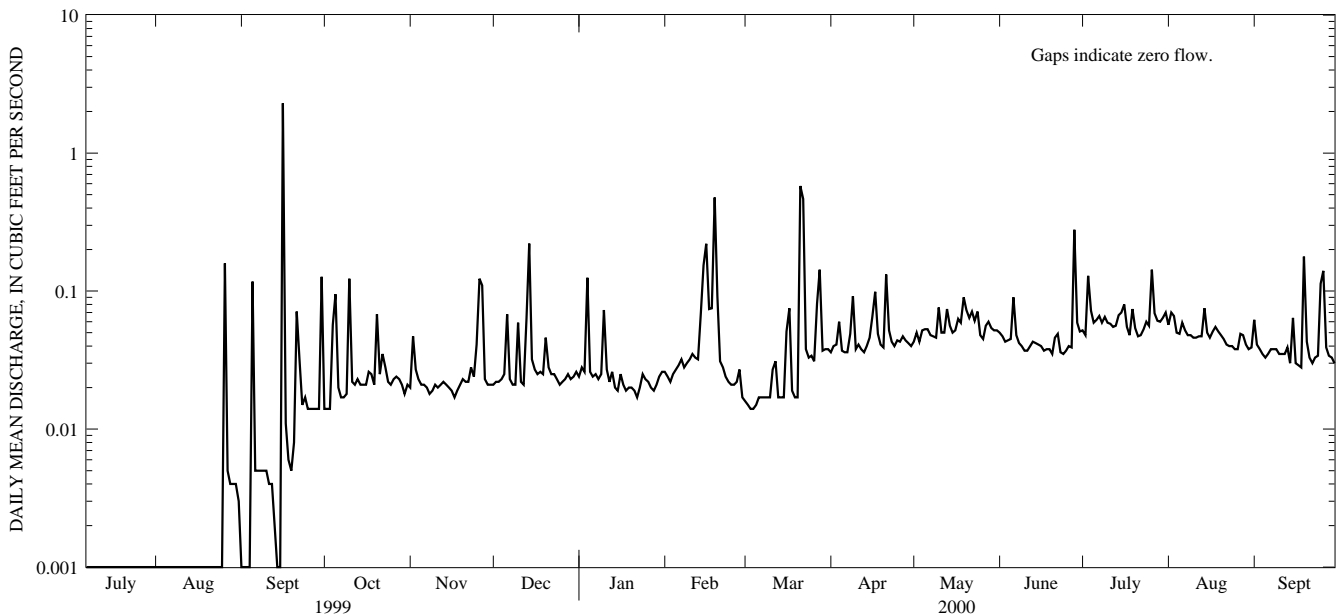
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.014	.020	.021	.024	e.026	.016	.036	.043	.050	.052	.057	.062
2	.014	.047	.022	.028	e.024	.015	.040	.050	.047	.048	.070	.041
3	.014	.027	.022	.026	e.022	.014	.041	.043	.043	.129	.066	.038
4	.057	.023	.023	.125	e.025	.014	.060	.052	.044	.072	.050	.035
5	.095	.021	.025	.026	e.027	.015	.037	.053	.045	.059	.049	.033
6	.020	.021	.068	.024	e.029	.017	.036	.053	.090	.062	.059	.035
7	.017	.020	.023	.025	e.032	.017	.036	.048	.048	.066	.052	.038
8	.017	.018	.021	.023	e.028	.017	.049	.047	.042	.059	.048	.038
9	.018	.019	.021	.025	e.030	.017	.092	.046	.040	.065	.048	.038
10	.123	.021	.059	.073	e.032	.017	.038	.076	.037	.059	.046	.035
11	.022	.020	.022	.027	e.035	.027	.041	.050	.037	.058	.046	.035
12	.021	.021	.021	.022	e.033	.031	.038	.050	.040	.055	.047	.035
13	.023	.022	.064	.026	e.032	.017	.036	.074	.043	.056	.047	.039
14	.021	.021	.221	.020	e.070	.017	.040	.056	.042	.067	.075	.030
15	.021	.020	.032	.019	.154	.017	.046	.050	.041	.070	.050	.064
16	.021	.019	.027	.025	.220	.051	.065	.052	.040	.080	.046	.030
17	.026	.017	.025	.021	.074	.075	.099	.063	.037	.055	.051	.029
18	.025	.019	.026	e.019	.075	.019	.049	.059	.038	.048	.055	.028
19	.021	.021	.025	e.020	.477	.017	.041	.090	.038	.074	.051	.178
20	.068	.023	.046	e.020	.092	.017	.039	.073	.035	.054	.048	.043
21	.025	.022	.028	e.019	.031	.577	.132	.064	.046	.047	.045	.033
22	.035	.022	.025	e.017	.028	.464	.052	.071	.049	.048	.041	.030
23	.028	.028	.025	e.020	.024	.038	.043	.061	.036	.053	.040	.033
24	.022	.024	.023	e.025	.022	.033	.040	.071	.035	.060	.040	.034
25	.021	.041	.021	e.023	.021	.034	.044	.048	.037	.056	.038	.113
26	.023	.123	.022	e.022	.021	.031	.043	.045	.040	.143	.038	.140
27	.024	.110	.023	e.020	.022	.081	.047	.056	.039	.069	.049	.039
28	.023	.023	.025	e.019	.027	.143	.044	.060	.278	.061	.048	.034
29	.021	.021	.023	e.021	.017	.037	.042	.054	.059	.060	.041	.033
30	.018	.021	.024	e.024	---	.038	.040	.052	.051	.064	.038	.030
31	.021	---	.026	e.026	---	.038	---	.052	---	.070	.039	---
TOTAL	0.919	0.875	1.079	0.854	1.750	1.961	1.486	1.762	1.547	2.019	1.518	1.423
MEAN	.030	.029	.035	.028	.060	.063	.050	.057	.052	.065	.049	.047
MAX	.123	.123	.221	.125	.477	.577	.132	.090	.278	.143	.075	.178
MIN	.014	.017	.021	.017	.017	.014	.036	.043	.035	.047	.038	.028

e Estimated.

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01479676 RUNOFF TO UNNAMED TRIBUTARY TO WEST BRANCH RED CLAY CREEK AT KENNETT SQUARE, PA--Continued
(New Garden Township, Chester County, Spray Irrigation Project)

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	17.193			
ANNUAL MEAN	.047		.047	
HIGHEST ANNUAL MEAN			.047	2000
LOWEST ANNUAL MEAN			.047	2000
HIGHEST DAILY MEAN	.577	Mar 21	2.3	Sep 16 1999
LOWEST DAILY MEAN	.014	Oct 1	.000	Jul 7 1999
ANNUAL SEVEN-DAY MINIMUM	.02	Feb 29	.00	Jul 7 1999
INSTANTANEOUS PEAK FLOW	4.1	Mar 21	13	Sep 16 1999
INSTANTANEOUS PEAK STAGE	2.27	Mar 21	2.54	Sep 16 1999
10 PERCENT EXCEEDS	.07		.07	
50 PERCENT EXCEEDS	.04		.03	
90 PERCENT EXCEEDS	.02		.00	



JULY 7, 1999 TO SEPTEMBER 30, 2000

CHRISTINA RIVER BASIN

01479676 RUNOFF TO UNNAMED TRIBUTARY TO WEST BRANCH RED CLAY CREEK AT KENNETT SQUARE, PA--Continued
(New Garden Township, Chester County, Spray Irrigation Project)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1999 to current year.

INSTRUMENTATION.--Automatic pumping sampler for stormflow events since September 1999. Sample intakes are located in flume.

REMARKS.-- Two types of samples are collected at this station. Grab samples are collected at the outlet of the flume. These are samples with one date in the table below. Samples with two dates are composited stormflow samples. Constituent values for stormflow water quality are for discharge-weighted composited samples; sample time is the composite start time, discharge is the mean for the composited period. Some values for "dissolved" parameters exceed values for the corresponding "total" parameter and some values for dissolved ortho-phosphorus exceed values for dissolved phosphorus. These results are within the limits of analytical precision and methods. Other data for this project presented in tables on pages 332-337 and 412-428.

WATER-QUALITY DATA, JUNE 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	DIS- CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
JUN 1999										
24...	1210	9813	1028	--	<.01	--	7.3	356	27.3	--
AUG										
27...	0745	9813	1028	--	.00	--	7.7	304	--	--
SEP										
16...	1325	9813	1028	--	7.8	--	--	--	--	--
SEP										
21-21	0952	9813	1028	.06	--	--	6.4	315	--	--
29...	1200	9813	1028	--	.01	12.9	7.1	363	22.1	--
SEP										
30-30	0015	9813	1028	.35	--	--	--	--	--	--
OCT										
07...	1100	9813	1028	--	.02	10.7	7.4	398	15.3	57.7
OCT										
20-20	0937	9813	1028	.06	--	--	7.3	302	--	--
26...	1030	9813	1028	--	.03	9.9	6.6	404	12.1	--
NOV										
02-02	1517	9813	1028	.14	--	--	7.4	396	--	--
17...	1230	9813	1028	--	.02	--	7.0	412	--	--
DEC										
06-06	0840	9813	1028	.21	--	--	7.8	326	--	--
09...	0950	9813	1028	--	.02	11.2	7.4	328	7.5	--
DEC										
14-14	0928	9813	1028	.48	--	--	7.0	180	--	--
JAN 2000										
04-04	1649	9813	1028	.44	--	--	7.8	302	--	--
06...	1015	9813	1028	--	.02	11.7	7.2	332	6.0	--
24...	1230	9813	1028	--	.03	11.7	7.2	338	6.2	--
FEB										
03...	1030	9813	1028	--	.03	--	6.7	--	--	--
09...	0810	9813	1028	--	.04	--	7.2	342	--	--
14...	1020	9813	1028	--	.18	--	7.2	186	--	--
MAR										
01...	0825	9813	1028	--	.02	11.9	7.0	548	6.4	--
08...	1230	9813	1028	--	.02	13.7	6.8	301	18.5	--
MAR										
11-11	2024	9813	1028	.08	--	--	--	--	--	--
16...	1120	9813	1028	--	.02	--	7.1	339	12.2	--
MAR										
16-17	2130	9813	1028	.28	--	--	7.5	191	--	--
22...	0835	9813	1028	--	.09	--	7.1	213	--	--
APR										
03-04	2304	9813	1028	.15	--	--	7.7	304	--	--
APR										
08-09	2140	9813	1028	.13	--	--	7.6	323	--	--
12...	1020	9813	1028	--	.01	--	7.3	341	--	--
APR										
16-16	2124	9813	1028	.11	--	--	8.0	314	--	--
APR										
17-17	0940	9813	1028	.21	--	--	8.0	277	--	--
24...	1105	9813	1028	--	.04	10.3	7.2	320	15.2	--
MAY										
04...	0900	9813	1028	--	.05	8.2	7.0	368	13.6	--
04...	0901	9813	1028	--	.05	8.2	7.0	368	13.6	--
10...	0830	9813	1028	--	.05	--	7.2	389	--	--
MAY										
10-10	1756	9813	1028	.20	--	--	7.4	368	--	--
MAY										
13-14	2025	9813	1028	.20	--	--	7.9	367	--	--
15...	1020	9813	1028	--	.05	7.6	7.2	377	14.8	--
31...	0940	9813	1028	--	.06	7.7	7.1	368	12.8	--
JUN										
06-06	0612	9813	1028	.20	--	--	7.8	414	--	--
14...	0900	9813	1028	--	.04	--	7.1	401	--	--
JUN										
21-22	2215	9813	1028	.13	--	--	7.5	476	--	--
29...	0800	9813	1028	--	.06	5.7	6.9	420	17.4	--
JUL										
03-03	1945	9813	1028	.57	--	--	--	--	--	--
12...	0900	9813	1028	--	.06	--	7.1	639	--	--

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01479676 RUNOFF TO UNNAMED TRIBUTARY TO WEST BRANCH RED CLAY CREEK AT KENNETT SQUARE, PA--Continued

WATER-QUALITY DATA, JUNE 1999 TO SEPTEMBER 2000

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE (MG/L AS SO4) (00946)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)
JUN 1999										
24...	--	--	--	20.1	--	--	--	--	.050	2.21
AUG										
27...	--	--	--	8.9	--	--	--	.07	.070	1.84
SEP										
16...	--	--	--	--	--	--	--	.03	--	--
SEP										
21-21	--	--	--	7.3	--	--	--	.03	.030	.364
29...	--	--	--	--	--	--	--	<.02	<.020	.800
SEP										
30-30	--	--	--	6.2	--	--	--	.05	.040	.190
OCT										
07...	14.2	4.6	5.1	12.7	<.2	8.6	39	.03	<.020	.580
OCT										
20-20	--	--	--	11.7	--	--	--	<.02	<.020	.120
26...	--	--	--	22.0	--	--	--	<.02	<.020	.410
NOV										
02-02	--	--	--	18.8	--	--	--	<.02	<.020	.050
17...	--	--	--	19.0	--	--	--	<.02	<.020	.920
DEC										
06-06	--	--	--	18.4	--	--	--	.16	<.020	.190
09...	--	--	--	19.4	--	--	--	<.02	<.020	.860
DEC										
14-14	--	--	--	6.1	--	--	--	.05	<.020	.170
JAN 2000										
04-04	--	--	--	16.2	--	--	--	<.02	<.020	.330
06...	--	--	--	16.4	--	--	--	<.02	<.020	1.11
24...	--	--	--	19.3	--	--	--	.04	.030	1.63
FEB										
03...	--	--	--	16.6	--	--	--	<.02	<.020	1.67
09...	--	--	--	16.4	--	--	--	<.02	<.020	1.76
14...	--	--	--	8.9	--	--	--	.57	.550	.710
MAR										
01...	--	--	--	13.5	--	--	--	<.02	<.020	1.61
08...	--	--	--	14.6	--	--	--	<.02	<.020	1.56
MAR										
11-11	--	--	--	11.1	--	--	--	--	<.020	.440
16...	--	--	--	14.1	--	--	--	<.02	<.020	1.30
MAR										
16-17	--	--	--	6.6	--	--	--	.05	.040	.210
22...	--	--	--	5.9	--	--	--	<.02	<.020	.420
APR										
03-04	--	--	--	13.4	--	--	--	.03	.020	.210
APR										
08-09	--	--	--	--	--	--	--	.07	.050	.110
12...	--	--	--	--	--	--	--	.08	.120	.310
APR										
16-16	--	--	--	--	--	--	--	.14	.110	.160
APR										
17-17	--	--	--	10.0	--	--	--	.06	.175	.110
24...	--	--	--	13.8	--	--	--	.07	.029	.240
MAY										
04...	--	--	--	--	--	--	--	.03	<.020	.160
04...	--	--	--	--	--	--	--	.03	<.020	.160
10...	--	--	--	16.8	--	--	--	<.02	<.020	.170
MAY										
10-10	--	--	--	--	--	--	--	<.02	<.020	.160
MAY										
13-14	--	--	--	23.2	--	--	--	<.02	<.020	.110
15...	--	--	--	20.7	--	--	--	<.02	<.020	.150
31...	--	--	--	24.2	--	--	--	<.02	<.020	.190
JUN										
06-06	--	--	--	35.2	--	--	--	.03	<.020	.110
14...	--	--	--	26.5	--	--	--	.02	<.020	.260
JUN										
21-22	--	--	--	39.3	--	--	--	<.02	<.020	.200
29...	--	--	--	31.4	--	--	--	.02	.020	.180
JUL										
03-03	--	--	--	31.9	--	--	--	.21	.180	.500
12...	--	--	--	33.0	--	--	--	<.02	<.020	.130

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WATER-QUALITY DATA, JUNE 1999 TO SEPTEMBER 2000

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	ANTI- MONY, DIS- SOLVED (MG/L AS SB) (01095)
JUN 1999										
24...	--	2.9	<.040	--	--	--	3.9	--	--	--
AUG										
27...	2.8	--	<.040	--	--	--	--	4.2	--	--
SEP										
16...	1.1	--	--	--	--	--	--	--	--	--
SEP										
21-21	2.3	2.1	<.040	--	--	--	--	--	--	--
29...	2.2	2.1	<.040	--	--	--	--	--	--	--
SEP										
30-30	2.5	1.6	<.040	--	--	--	--	--	--	--
OCT										
07...	1.8	1.8	<.040	.147	.117	.170	8.5	8.8	280	<2
OCT										
20-20	1.5	1.4	<.040	--	--	--	--	12	--	--
26...	1.5	1.5	<.040	--	--	--	--	--	--	--
NOV										
02-02	2.2	1.6	<.040	--	--	--	--	--	--	--
17...	1.7	1.7	<.040	--	--	--	--	--	--	--
DEC										
06-06	1.9	1.5	<.040	--	--	--	--	--	--	--
09...	1.1	1.7	<.040	--	--	--	--	--	--	--
DEC										
14-14	1.5	.85	<.040	--	--	--	--	--	--	--
JAN 2000										
04-04	2.5	1.5	<.040	--	--	--	--	18	--	--
06...	1.8	1.8	<.040	--	--	--	--	3.8	--	--
24...	2.4	2.5	<.040	--	--	--	--	--	--	--
FEB										
03...	2.2	2.2	<.010	--	--	--	--	--	--	--
09...	2.5	2.4	<.040	--	--	--	--	--	--	--
14...	3.5	3.0	<.040	--	--	--	--	--	--	--
MAR										
01...	2.1	2.0	<.040	--	--	--	--	--	--	--
08...	2.2	2.2	<.040	--	--	--	--	--	--	--
MAR										
11-11	--	1.6	<.040	--	--	--	--	--	--	--
16...	1.8	1.8	<.040	--	--	--	--	--	--	--
MAR										
16-17	2.0	1.3	<.040	--	--	--	--	--	--	--
22...	1.3	1.1	<.040	--	--	--	--	--	--	--
APR										
03-04	2.9	1.7	<.040	--	--	--	--	--	--	--
APR										
08-09	1.6	1.3	<.040	.350	.330	.460	--	--	--	--
12...	.96	.93	<.040	.085	.085	.100	--	--	--	--
APR										
16-16	2.0	1.5	<.040	.220	.240	.440	--	--	--	--
APR										
17-17	1.6	1.2	<.040	--	--	--	--	--	--	--
24...	.89	.88	<.040	--	--	--	--	--	--	--
MAY										
04...	1.2	1.0	<.040	.320	.290	.420	--	--	--	--
04...	1.2	1.0	<.040	.340	.310	.440	--	--	--	--
10...	.96	.99	<.040	--	--	--	--	--	--	--
MAY										
10-10	3.6	1.8	<.040	.620	.570	1.43	--	--	--	--
MAY										
13-14	2.3	1.4	<.040	--	--	--	--	--	--	--
15...	.96	.84	<.040	--	--	--	--	--	--	--
31...	1.1	1.0	<.040	.290	.300	.310	--	--	--	--
JUN										
06-06	2.2	1.6	<.040	.660	.640	.690	--	15	--	--
14...	1.0	.99	<.040	.059	.057	.070	--	6.0	--	--
JUN										
21-22	2.3	1.6	<.040	--	--	--	--	--	--	--
29...	1.3	1.2	<.040	.160	.133	.190	--	--	--	--
JUL										
03-03	2.9	2.1	<.040	.920	.850	1.42	--	--	--	--
12...	.96	.99	<.040	.150	.140	.160	--	--	--	--

CHRISTINA RIVER BASIN

01479676 RUNOFF TO UNNAMED TRIBUTARY TO WEST BRANCH RED CLAY CREEK AT KENNETT SQUARE, PA--Continued

WATER-QUALITY DATA, JUNE 1999 TO SEPTEMBER 2000

DATE	LITHIUM DIS- SOLVED (µG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN) (01055)	MERCURY DIS- SOLVED (µG/L AS HG) (71890)	NICKEL, DIS- SOLVED (µG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (µG/L AS SE) (01145)	STRON- TIUM, DIS- SOLVED (µG/L AS SR) (01080)	ZINC, DIS- SOLVED (µG/L AS ZN) (01090)	N15/N14 NO3 FRAC WATER FLTRD 0.45 µ PER MIL (82690)
JUN 1999									
24...	--	23	--	--	--	--	--	<10	--
AUG									
27...	--	35	35	--	--	--	--	12	--
SEP									
16...	--	--	--	--	--	--	--	--	--
SEP									
21-21	--	--	--	--	--	--	--	12	--
29...	--	--	--	--	--	--	--	<10	--
SEP									
30-30	--	--	--	--	--	--	--	<10	--
OCT									
07...	<25.0	71	--	<.2	<4	<7.0	128	<10	--
OCT									
20-20	--	68	111	--	--	--	--	13	--
26...	--	--	--	--	--	--	--	<10	7.00
NOV									
02-02	--	--	--	--	--	--	--	70	--
17...	--	--	--	--	--	--	--	<10	--
DEC									
06-06	--	--	--	--	--	--	--	<10	--
09...	--	--	--	--	--	--	--	<10	--
DEC									
14-14	--	--	--	--	--	--	--	<10	--
JAN 2000									
04-04	--	<10	810	--	--	--	--	<10	--
06...	--	25	29	--	--	--	--	<10	--
24...	--	--	--	--	--	--	--	<10	--
FEB									
03...	--	--	--	--	--	--	--	<10	--
09...	--	--	--	--	--	--	--	<10	--
14...	--	--	--	--	--	--	--	<10	--
MAR									
01...	--	--	--	--	--	--	--	<10	--
08...	--	--	--	--	--	--	--	<10	--
MAR									
11-11	--	--	--	--	--	--	--	<10	--
16...	--	--	--	--	--	--	--	<10	--
MAR									
16-17	--	--	--	--	--	--	--	<10	--
22...	--	--	--	--	--	--	--	<10	--
APR									
03-04	--	--	--	--	--	--	--	<10	--
APR									
08-09	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--
APR									
16-16	--	--	--	--	--	--	--	--	--
APR									
17-17	--	--	--	--	--	--	--	14	--
24...	--	--	--	--	--	--	--	<10	--
MAY									
04...	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	<10	--
MAY									
10-10	--	--	--	--	--	--	--	--	--
MAY									
13-14	--	--	--	--	--	--	--	<10	--
15...	--	--	--	--	--	--	--	<10	--
31...	--	--	--	--	--	--	--	11	--
JUN									
06-06	--	<10	217	--	--	--	--	<10	--
14...	--	140	147	--	--	--	--	<10	--
JUN									
21-22	--	--	--	--	--	--	--	10	--
29...	--	--	--	--	--	--	--	<10	--
JUL									
03-03	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	<10	--

CHRISTINA RIVER BASIN

01479676 RUNOFF TO UNNAMED TRIBUTARY TO WEST BRANCH RED CLAY CREEK AT KENNETT SQUARE, PA--Continued

WATER-QUALITY DATA, WATER YEAR JUNE 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	AGENCY COL-LECTING SAMPLE (CODE NUMBER)	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
JUL 2000											
16-16	1541	9813	1028	.19	--	--	7.9	433	--	38.4	<.02
31...	0940	9813	1028	--	.07	6.2	6.2	459	--	34.7	<.02
31...	0941	9813	1028	--	.07	--	--	--	--	34.6	<.02
AUG											
07...	0930	9813	1028	--	.06	6.2	7.3	452	18.2	35.2	<.02
09...	1110	9813	1028	--	.05	--	7.1	475	--	33.8	<.02
16...	0910	9813	1028	--	.05	5.3	7.2	397	17.3	36.4	<.02
SEP											
01-01	0637	9813	1028	.23	--	--	7.9	347	--	33.4	.04
06...	0950	9813	1028	--	.04	6.2	7.3	427	15.9	36.9	<.02
11...	0945	9813	1028	--	.04	6.5	6.8	412	16.1	36.1	<.02
SEP											
15-15	0026	9813	1028	.23	--	--	--	--	--	30.1	<.02
SEP											
19-19	1120	9813	1028	.10	--	--	--	--	--	35.8	<.02
19...	1225	9813	1028	--	.04	--	6.4	398	16.7	35.2	<.02

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	BORON, DIS-SOLVED (µG/L AS B) (01020)	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)
JUL 2000										
16-16	<.020	.170	2.2	1.6	<.040	--	--	--	<200	<10
31...	<.020	.160	.98	1.0	<.040	.200	.140	.230	--	<10
31...	<.020	.160	.96	1.0	<.040	.190	.150	.180	--	<10
AUG										
07...	<.020	.220	.99	.98	<.040	.150	.120	.160	--	66
09...	<.020	.180	.96	.95	<.040	.110	.099	.110	--	<10
16...	.030	.240	.93	.98	<.040	.140	.130	.140	--	<10
SEP										
01-01	.030	.380	2.3	1.5	<.040	.400	.290	.710	--	<10
06...	<.020	.280	.85	.82	<.040	.076	.072	.080	--	<10
11...	<.020	.260	.78	.72	<.040	.051	.061	.050	--	<10
SEP										
15-15	<.020	.240	3.6	1.4	<.040	--	--	--	<200	15
SEP										
19-19	.030	.110	1.5	1.1	<.040	--	--	--	--	--
19...	<.020	.160	1.1	1.0	<.040	--	--	--	<200	<10