

SCHUYLKILL RIVER BASIN

**01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA
(National Water-Quality Assessment Station)**

LOCATION.--Lat 40°24'48", long 76°10'19", Berks County, Hydrologic Unit, 02040203, on left bank 30 ft downstream from Mill Road bridge at Kricks Mill, 0.4 mi upstream from Mill Creek, and 3.5 mi west of Bernville.

DRAINAGE AREA.--66.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1974 to current year.

REVISED RECORDS.--WDR PA-96-1: 1975-83(P), 1988(P), 1990(P), 1993-94(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 311.26 ft above sea level (Pennsylvania Department of Transportation datum).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1972 reached a stage of about 9.5 ft, from information by local resident, discharge about 6,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 950 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 22	0330	2,190	6.57	June 26	0200	*5,150	*8.95

**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	131	57	59	78	e61	168	185	92	85	161	71	121
2	111	64	57	77	e62	155	174	96	87	145	93	78
3	100	e132	53	78	e60	143	168	90	83	138	70	68
4	101	e85	55	78	e65	135	202	84	82	128	74	66
5	125	e69	56	77	e61	128	178	79	78	122	68	63
6	103	60	68	74	e58	120	166	79	111	116	66	61
7	96	58	65	74	e56	113	148	75	94	112	68	60
8	91	57	61	72	e54	111	152	74	80	107	65	60
9	88	54	60	71	e52	109	236	72	76	103	63	58
10	161	e54	64	119	e56	106	180	73	72	102	62	57
11	139	e53	64	125	e53	133	162	73	72	97	61	57
12	117	e52	61	102	e51	230	156	71	79	90	60	57
13	106	e51	58	92	e63	152	146	76	130	83	61	70
14	105	50	134	88	e57	139	142	103	135	91	60	58
15	96	50	169	86	e56	131	140	75	99	106	59	81
16	88	49	132	e82	e80	127	138	71	98	111	69	61
17	86	49	119	e76	117	194	138	70	88	86	61	59
18	86	49	111	e75	110	149	140	69	89	84	60	57
19	79	48	104	e74	106	140	128	95	97	84	59	60
20	78	49	106	e72	99	134	120	89	84	85	57	71
21	72	48	113	e71	96	414	132	82	84	81	55	59
22	70	44	99	e71	96	1480	139	82	194	98	54	57
23	71	42	97	e70	114	521	122	108	107	80	55	57
24	68	41	92	e68	142	374	117	136	94	78	56	57
25	66	44	88	e66	171	328	112	125	405	75	53	58
26	62	82	87	e66	194	290	108	91	2080	73	49	81
27	63	129	86	e64	171	254	110	89	375	72	49	72
28	62	77	84	e62	260	347	105	89	243	69	51	67
29	61	68	82	e60	185	245	101	84	216	71	57	63
30	59	63	80	e60	---	219	97	81	199	68	57	59
31	58	---	80	e61	---	200	---	87	---	68	57	---
TOTAL	2799	1828	2644	2389	2806	7489	4342	2660	5816	2984	1900	1953
MEAN	90.3	60.9	85.3	77.1	96.8	242	145	85.8	194	96.3	61.3	65.1
MAX	161	132	169	125	260	1480	236	136	2080	161	93	121
MIN	58	41	53	60	51	106	97	69	72	68	49	57
CFSM	1.36	.92	1.28	1.16	1.46	3.63	2.18	1.29	2.92	1.45	.92	.98
IN.	1.57	1.02	1.48	1.34	1.57	4.19	2.43	1.49	3.25	1.67	1.06	1.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2000, BY WATER YEAR (WY)

MEAN	82.2	96.2	115	132	131	169	149	114	101	87.0	66.9	68.5
MAX	250	181	288	385	264	468	367	277	208	216	129	181
(WY)	1977	1997	1997	1979	1979	1994	1993	1989	1982	1984	1976	1975
MIN	35.5	38.7	40.7	33.6	48.6	67.5	58.8	59.5	41.4	32.1	30.4	29.7
(WY)	1998	1982	1999	1981	1992	1981	1985	1999	1999	1999	1999	1991

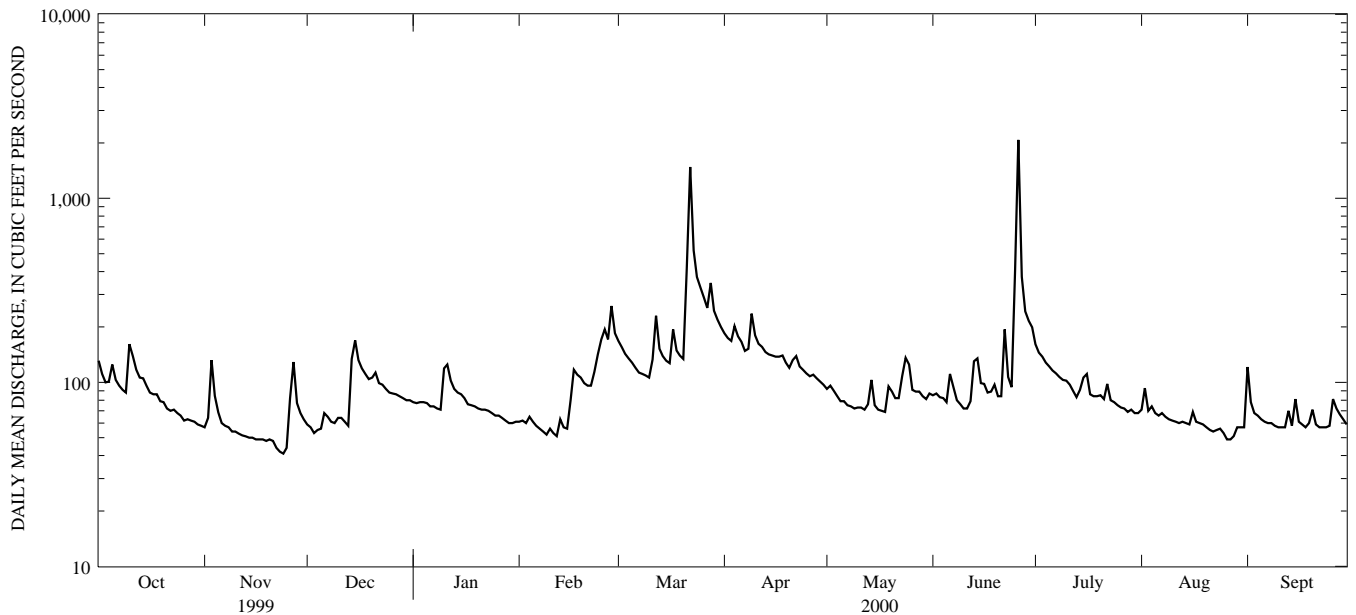
e Estimated.

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1975 - 2000	
ANNUAL TOTAL	30883		39610			
ANNUAL MEAN	84.6		108		108	
HIGHEST ANNUAL MEAN					164	
LOWEST ANNUAL MEAN					55.7	
HIGHEST DAILY MEAN	e1100	Jan 18	2080	Jun 26	2140	Jan 26 1978
LOWEST DAILY MEAN	19	Aug 4	41	Nov 24	19	Aug 4 1999
ANNUAL SEVEN-DAY MINIMUM	22	Jul 30	45	Nov 19	22	Jul 30 1999
INSTANTANEOUS PEAK FLOW			a5150	Jun 26	a7140	Jan 24 1979
INSTANTANEOUS PEAK STAGE			8.95	Jun 26	10.16	Jan 24 1979
INSTANTANEOUS LOW FLOW			39	Nov 24	19	Aug 4 1999
ANNUAL RUNOFF (CFSM)	1.27		1.63		1.63	
ANNUAL RUNOFF (INCHES)	17.28		22.16		22.13	
10 PERCENT EXCEEDS	131		161		182	
50 PERCENT EXCEEDS	70		82		85	
90 PERCENT EXCEEDS	31		57		44	

a From rating curve extended above 740 ft³/s on basis of contracted-opening measurement at 3,900 ft³/s, gage height 8.01 ft.
 e Estimated.



1-YEAR HYDROGRAPH
 OCTOBER 1, 1999 TO SEPTEMBER 30, 2000

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued
(National Water-Quality Assessment Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Water years 1978 to current year.

INSTRUMENTATION.--Temperature recorder since October 1977. Temperature probe interfaced with a data collection platform since 1986 water year.

REMARKS.--Water temperature records rated fair. Interruptions in the record were due to malfunctions of the equipment. For the definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the Introduction. The following samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (NAWQA). Fish community data for this site are presented on pages 479-481.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 28.5°C, July 6, 1999; minimum, 0.0°C, many days during winters.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 22.5°C, June 11, 12, Aug. 8-10; minimum, 0.0°C, several days during winter.

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

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1999										
06...	0910	ENVIRONMENTAL	104	757	91	10.0	8.2	572	10.5	11.0
19...	0850	ENVIRONMENTAL	81	762	92	10.2	8.3	580	6.0	11.0
NOV										
03...	0910	ENVIRONMENTAL	E132	743	116	12.1	8.0	565	17.0	12.0
17...	0900	ENVIRONMENTAL	49	756	159	20.3	8.3	564	7.0	4.5
DEC										
08...	0830	ENVIRONMENTAL	61	765	91	11.3	8.1	587	6.0	6.0
14...	1430	ENVIRONMENTAL	101	746	92	11.1	8.1	545	4.0	6.0
JAN 2000										
05...	1040	ENVIRONMENTAL	77	760	103	12.3	8.3	580	4.0	7.5
18...	1420	ENVIRONMENTAL	E75	754	100	14.4	8.3	652	-4.0	.0
FEB										
03...	0920	ENVIRONMENTAL	E60	758	99	14.4	8.1	586	E-12.2	.0
14...	1050	ENVIRONMENTAL	E57	744	100	12.9	8.2	573	4.5	3.5
28...	1420	ENVIRONMENTAL	243	753	98	11.2	7.9	450	11.0	9.0
MAR										
08...	1100	ENVIRONMENTAL	111	753	116	12.8	8.2	595	26.0	10.5
21...	0900	ENVIRONMENTAL	136	762	85	10.0	8.1	569	4.0	8.0
22...	1020	ENVIRONMENTAL	1740	765	100	12.5	7.7	307	7.0	6.0
APR										
05...	0920	ENVIRONMENTAL	138	752	105	12.0	8.1	562	4.0	9.0
18...	1000	ENVIRONMENTAL	143	--	--	--	8.1	556	5.0	9.0
MAY										
03...	0810	ENVIRONMENTAL	93	--	--	--	8.2	553	11.0	13.5
17...	0810	ENVIRONMENTAL	71	758	87	8.7	7.9	585	18.0	15.5
JUN										
01...	0830	ENVIRONMENTAL	86	759	95	9.3	8.1	588	23.0	16.0
14...	1300	ENVIRONMENTAL	141	757	95	9.4	8.1	505	16.5	15.5
29...	0950	ENVIRONMENTAL	200	750	100	9.6	8.0	590	20.0	16.5
JUL										
11...	1000	ENVIRONMENTAL	99	750	119	10.7	8.1	583	25.5	19.5
AUG										
02...	1059	FIELD BLANK	--	--	--	--	--	--	--	--
02...	1100	ENVIRONMENTAL	86	752	89	7.9	7.9	508	26.5	20.5
02...	1101	SPLIT REPLICATE	--	--	--	--	--	--	--	--
14...	1010	ENVIRONMENTAL	60	752	93	8.6	8.1	579	22.5	18.0
28...	1410	ENVIRONMENTAL	49	763	103	9.2	8.2	561	27.0	21.0

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01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

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

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	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)	ANC UNFLTRD TIT 4.5 LAB (MG/L CACO3) (90410)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
OCT 1999												
06...	270	77.3	17.5	4.2	11.1	--	197	240	--	22.3	.1	8.3
19...	280	80.6	19.2	3.7	11.4	--	210	256	--	22.8	<.1	7.4
NOV												
03...	270	77.8	18.9	3.8	10.7	--	202	246	--	23.8	<.1	6.7
17...	280	77.4	20.2	3.6	11.4	--	205	250	--	23.0	.1	4.1
DEC												
08...	280	81.9	19.5	3.5	11.5	--	203	248	--	22.0	.1	8.1
14...	260	75.2	17.4	4.0	10.3	--	190	232	--	22.8	<.1	7.1
JAN 2000												
05...	270	76.5	18.7	3.3	11.4	--	200	229	7	22.0	<.1	7.7
18...	280	81.3	19.6	3.3	16.5	--	--	--	--	32.8	.1	7.6
FEB												
03...	270	74.9	19.0	3.1	10.8	--	178	218	--	22.0	<.1	7.0
14...	260	73.4	19.0	3.5	14.0	--	194	237	--	26.4	.2	6.2
28...	180	54.6	11.0	4.6	9.2	--	--	--	--	19.3	<.1	6.1
MAR												
08...	280	80.2	18.3	3.0	11.4	--	210	256	--	24.1	<.1	6.5
21...	250	72.3	16.9	3.0	10.8	--	192	234	--	22.4	<.1	6.3
22...	120	35.1	7.14	4.8	5.4	--	87	106	--	10.5	<.1	5.3
APR												
05...	250	71.5	16.3	3.1	12.0	--	192	234	--	24.7	<.1	6.9
18...	260	75.5	16.8	2.9	9.2	--	194	236	--	22.6	<.1	6.9
MAY												
03...	270	77.1	18.9	2.9	10.2	--	193	236	--	20.6	<.1	5.8
17...	260	73.6	19.1	3.0	10.9	186	--	--	--	23.1	.1	5.6
JUN												
01...	280	79.6	19.3	2.7	11.0	--	218	266	--	21.9	<.1	6.8
14...	230	66.0	16.5	4.0	9.5	--	182	222	--	17.2	.2	7.6
29...	260	76.9	17.2	3.8	10.7	--	196	239	--	21.0	.2	8.2
JUL												
11...	270	78.7	18.6	3.2	9.9	--	210	257	--	21.3	<.1	4.4
AUG												
02...	--	E.02	<.01	<.2	<.1	--	--	--	--	<.3	<.1	<.1
02...	220	62.7	15.8	4.9	8.2	--	164	200	--	17.1	<.1	6.0
02...	220	63.1	16.0	4.9	8.3	--	--	--	--	17.5	<.1	6.0
14...	260	71.8	19.5	3.1	9.9	--	201	245	--	20.7	.1	6.6
28...	260	71.3	19.6	3.6	10.3	--	191	233	--	21.6	<.1	5.9
DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT 1999												
06...	36.7	.077	.36	.46	8.9	8.57	9.0	.072	.081	.062	.099	356
19...	33.9	.049	.27	.35	8.8	8.48	8.8	.069	.061	.051	.075	337
NOV												
03...	33.2	.057	.31	.54	7.6	7.30	7.8	.103	.053	.035	.081	324
17...	34.7	.090	.32	.48	8.8	8.50	9.0	.103	.023	.014	.032	332
DEC												
08...	35.7	.134	.37	.50	8.8	8.43	8.9	.101	.066	.045	.067	338
14...	33.2	.176	.59	.82	8.1	7.51	8.3	.101	.076	.070	.147	317
JAN 2000												
05...	34.8	.137	.33	.45	9.0	8.69	9.1	.110	.047	.039	.068	350
18...	32.3	.224	.49	.60	11	10.3	11	.059	.052	.043	.075	374
FEB												
03...	34.5	.169	.35	.39	8.8	8.45	8.8	.045	.023	.019	.032	340
14...	32.6	.271	.65	.85	8.7	8.01	8.9	.059	.046	.033	.077	344
28...	25.5	.283	.75	1.9	7.3	6.53	8.4	.059	.169	.139	.219	265
MAR												
08...	32.7	.081	.25	.37	9.6	9.31	9.7	.060	.036	.014	.064	344
21...	31.0	.099	.30	.47	9.5	9.22	9.7	.053	.038	.026	.079	328
22...	15.5	.210	.67	2.0	5.7	5.08	7.1	.030	.256	.227	.769	175
APR												
05...	31.9	.093	.36	.60	9.2	8.85	9.5	.042	.033	.025	.070	328
18...	29.8	.104	.27	.40	9.1	8.87	9.3	.060	.025	.021	.068	327
MAY												
03...	31.0	.066	.26	.52	8.8	8.58	9.1	.065	.039	.029	.063	330
17...	31.9	.066	.28	.43	9.4	9.12	9.5	.084	.037	.041	--	342
JUN												
01...	32.6	.047	.23	.41	9.2	8.97	9.4	.079	.043	.045	--	365
14...	28.5	.125	.53	.99	8.0	7.43	8.4	.108	.114	.091	.291	310
29...	28.2	.083	.37	.57	9.1	8.73	9.3	.066	.079	.064	.139	339
JUL												
11...	27.0	<.020	.24	.29	9.5	9.21	9.5	.041	.032	.021	.048	342
AUG												
02...	<.3	<.020	<.10	<.10	--	<.050	--	<.010	<.006	<.010	<.008	<.10
02...	28.8	.063	.41	.78	8.0	7.56	8.3	.089	.133	.107	.267	297
02...	28.6	.060	.41	.89	8.3	7.86	8.7	.089	.134	.104	.273	298
14...	29.9	.041	.26	.41	8.7	8.44	8.8	.060	.066	.052	.087	336
28...	28.0	.026	.33	.42	8.4	8.03	8.4	.049	.072	.052	.102	335

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

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

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	ARSENIC DIS- SOLVED (µG/L AS AS) (01000)	ARSENIC TOTAL (µG/L AS AS) (01002)	BORON, DIS- SOLVED (µG/L AS B) (01020)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT 1999											
06...	334	7	7.1	7	23	10	16	2.7	.2	1.2	4
19...	343	4	--	--	27	10	17	2.1	.3	1.2	6
NOV											
03...	328	8	3.9	5	21	30	24	2.5	.4	--	14
17...	335	3	--	--	26	10	12	1.5	.2	.42	3
DEC											
08...	342	4	3.7	3	21	10	23	1.7	.2	1.1	6
14...	318	63	--	--	20	20	30	2.7	.8	5.3	19
JAN 2000											
05...	333	8	3.4	4	20	10	22	1.9	.2	3.5	17
18...	374	14	--	--	26	20	16	1.3	.3	--	28
FEB											
03...	316	6	2.1	E2	21	E10	18	1.2	.4	--	8
14...	328	11	--	--	22	20	25	3.0	.6	--	9
28...	249	220	3.8	6	18	20	32	4.2	2.4	131	200
MAR											
08...	343	12	4.7	4	E16	E10	29	1.4	.4	7.2	24
21...	319	20	--	--	18	10	25	1.4	.5	8.5	23
22...	159	340	6.1	9	E12	180	49	4.2	>4.0	1150	246
APR											
05...	321	18	3.7	5	18	E10	12	1.7	.5	8.5	23
18...	319	8	--	--	21	10	11	1.5	.3	--	--
MAY											
03...	320	--	5.8	3	26	E10	15	1.6	.3	3.7	15
17...	320	16	--	--	19	E10	13	1.6	.2	8.3	44
JUN											
01...	344	22	3.2	3	25	10	13	1.5	<.2	8.7	37
14...	292	200	--	--	21	E10	11	2.7	1.9	37	98
29...	323	46	7.5	9	20	E10	18	1.8	.3	11	20
JUL											
11...	330	9	--	--	E15	<10	7	1.6	.5	4.7	18
AUG											
02...	--	--	<2.0	<3	<16	<10	<2	--	--	--	--
02...	276	140	2.7	4	19	<10	8	3.0	2.0	18	79
02...	--	--	3.3	4	22	E10	8	--	--	--	70
14...	320	10	--	--	21	<10	6	1.6	.3	2.4	15
28...	311	14	--	--	21	E10	7	2.0	.3	1.8	14

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

REMARKS.--Selected samples were analyzed for volatile organic compounds (VOCs) on schedule 2020 (listed with minimum reporting levels on pages 464-465). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

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

DATE	TIME	SAMPLE TYPE	BENZENE				1,1-DI-ETHYLENE		ACETONE WATER	BENZENE		
			1,2,4-TRI-ETHYLENE UNFLT REC (µG/L) (34551)	1,1-DI-ETHYLENE UNFLT REC (µG/L) (34496)	1,1-DI-ETHYLENE UNFLT REC (µG/L) (34501)	1,2-DI-ETHYLENE UNFLT REC (µG/L) (34541)	123-TRI-METHYL-ETHYLENE UNFLT REC (µG/L) (77221)	1,1,1-TRI-ETHYLENE UNFLT REC (µG/L) (34506)				
OCT 1999												
06...	0910	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
19...	0850	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
NOV												
03...	0910	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E1	<.1	<.03			
17...	0900	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
DEC												
08...	0830	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
14...	1430	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E2	<.1	<.03			
14...	1431	CONCURRENT REPLICATE	<.2	<.07	<.04	<.07	E2	<.1	<.03			
JAN 2000												
05...	1040	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
18...	1420	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
FEB												
03...	0920	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
14...	1050	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E2	<.1	<.03			
28...	1420	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
MAR												
08...	1100	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E1	<.1	M			
21...	0900	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
22...	1020	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E2	<.1	<.03			
APR												
05...	0920	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
18...	1000	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
MAY												
03...	0810	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	M			
JUN												
01...	0830	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
JUL												
11...	0957	SOLUTION BLANK	<.2	<.07	<.04	<.07	<7	<.1	<.03			
11...	0958	CANNISTER BLANK	<.2	<.07	<.04	<.07	<7	<.1	<.03			
11...	0959	FIELD BLANK	<.2	<.07	<.04	<.07	<7	<.1	<.03			
11...	1000	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
AUG												
14...	1010	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03			
DATE	TIME	SAMPLE TYPE	1,1,2-ETHYLENE UNFLT REC (µG/L) (34511)	BENZENE 135-TRI-METHYL-WATER UNFLT REC (µG/L) (77222)	BENZENE 1,3-DI-ETHYLENE UNFLT REC (µG/L) (34566)	BENZENE 1,4-DI-ETHYLENE UNFLT REC (µG/L) (34571)	ISO-PROPYL-BENZENE UNFLT REC (µG/L) (77223)	BENZENE N-BUTYL-WATER UNFLT REC (µG/L) (77342)	BENZENE N-PROPYL-WATER UNFLT REC (µG/L) (77224)	O-DI-ETHYLENE UNFLT REC (µG/L) (34536)	BENZENE TOTAL (µG/L) (34030)	BROMO-FORM TOTAL (µG/L) (32104)
OCT 1999												
06...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
19...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
NOV												
03...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	M	<.06
17...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
DEC												
08...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
14...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	E.01	<.06
14...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	E.01	<.06
JAN 2000												
05...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
18...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	E.01	<.06
FEB												
03...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	E.02	<.06
14...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	E.02	<.06
28...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
MAR												
08...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	E.01	<.06
21...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	E.01	<.06
22...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	E.01	<.06
APR												
05...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
18...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
MAY												
03...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
JUN												
01...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
JUL												
11...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
11...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
11...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
11...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06
AUG												
14...			<.06	<.06	<.04	<.05	<.03	<.2	<.04	<.05	<.04	<.06

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES--Continued

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

DATE	CARBON DI- SULFIDE WATER TOTAL (µG/L) (77041)	CARBON TETRA- CHLO- RIDE TOTAL (µG/L) (32102)	CHLORO- BENZENE TOTAL (µG/L) (34301)	CHLORO- DI- BROMO- METHANE TOTAL (µG/L) (32105)	CHLORO- ETHANE TOTAL (µG/L) (34311)	CHLORO- FORM TOTAL (µG/L) (32106)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (µG/L) (77093)	BROMO- DI- CHLORO- METHANE TOTAL (µG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (µG/L) (81576)	ETHER TERT- BUTYL UNFLTRD RECOVER (µG/L) (50004)	ETHER TERT- PENTYL UNFLTRD RECOVER (µG/L) (50005)
OCT 1999											
06...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
19...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
NOV											
03...	<.07	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
17...	<.07	<.06	<.03	<.2	M	E.01	<.04	<.05	<.2	<.05	<.1
DEC											
08...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
14...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
14...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
JAN 2000											
05...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
18...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
FEB											
03...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
14...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
28...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
MAR											
08...	<.07	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
21...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
22...	<.07	<.06	<.03	<.2	<.1	E.01	E.01	<.05	<.2	<.05	<.1
APR											
05...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
18...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
MAY											
03...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
JUN											
01...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
JUL											
11...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
11...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
11...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
11...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
AUG											
14...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1

DATE	ETHYL- BENZENE TOTAL (µG/L) (34371)	FREON- 113 WATER UNFLTRD REC (µG/L) (77652)	FURAN, TETRA- HYDRO- WATER UNFLTRD RECOVER (µG/L) (81607)	ISO- DURENE WATER UNFLTRD RECOVER (µG/L) (50000)	METHYL TERT- BUTYL ETHER WAT UNF REC (µG/L) (78032)	METHYL- CHLO- RIDE TOTAL (µG/L) (34418)	METHYL ENE CHLO- RIDE TOTAL (µG/L) (34423)	METHYL- ETHYL- KETONE WATER WHOLE TOTAL (µG/L) (81595)	METHYL ISO- BUTYL KETONE WAT. WH. TOTAL (µG/L) (78133)	META/ PARA- XYLENE WATER UNFLTRD REC (µG/L) (85795)
OCT 1999										
06...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
19...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
NOV										
03...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
17...	<.03	<.06	<2	<.2	<.2	E.1	<.4	<2	<.4	<.06
DEC										
08...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
14...	<.03	<.06	<2	<.2	E.1	<.5	<.4	E1	<.4	<.06
14...	<.03	<.06	<2	<.2	E.1	<.5	<.4	E1	<.4	<.06
JAN 2000										
05...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
18...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
FEB										
03...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
14...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
28...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
MAR										
08...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	E.01
21...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
22...	<.03	<.06	<2	<.2	E.1	<.5	<.4	M	<.4	E.02
APR										
05...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
18...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
MAY										
03...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
JUN										
01...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
JUL										
11...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
11...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
11...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
11...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
AUG										
14...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES--Continued

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

DATE	NAPHTH- ALENE TOTAL (µG/L) (34696)	O- CHLORO- TOLUENE WATER TOTAL (µG/L) (77275)	O- XYLENE WATER TOTAL (µG/L) (77135)	P-ISO- PROPYL- TOLUENE WATER TOTAL REC (µG/L) (77356)	STYRENE TOTAL (µG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (µG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (µG/L) (77220)	TOLUENE TOTAL (µG/L) (34010)	TRI- CHLORO- ETHYL- ENE TOTAL (µG/L) (39180)	TRI- CHLORO- FLUORO- METHANE TOTAL (µG/L) (34488)
OCT 1999										
06...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
19...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
NOV										
03...	<.2	<.04	<.04	<.07	E.01	M	<.06	<.05	M	<.09
17...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	M	<.09
DEC										
08...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
14...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.05	<.04	<.09
14...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.05	<.04	<.09
JAN 2000										
05...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
18...	<.2	<.04	<.04	<.07	<.04	E.1	<.06	E.08	E.01	<.09
FEB										
03...	<.2	<.04	<.04	<.07	E.01	M	<.06	<.05	<.04	<.09
14...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	E.02	<.09
28...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.06	<.04	<.09
MAR										
08...	<.2	<.04	E.01	<.07	<.04	M	<.06	<.05	E.01	<.09
21...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.07	<.04	<.09
22...	<.2	<.04	<.04	E.06	<.04	M	<.06	.18	E.01	<.09
APR										
05...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
18...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
MAY										
03...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	E.01	<.09
JUN										
01...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
JUL										
11...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.07	<.04	<.09
11...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.03	<.04	<.09
11...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.02	<.04	<.09
11...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.01	<.04	<.09
AUG										
14...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES

REMARKS.--Selected samples were analyzed for pesticides using laboratory schedule 2001 and LCAA (listed in their entirety, with minimum reporting levels on pages 463 and 466). Only pesticides identified by the analyses in one or more samples are listed in the following table.

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

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR ESA FLTRD 0.7 µM GF REC (µG/L) (61029)	ACETO-CHLOR, WATER FLTRD 0.7 µM GF REC (µG/L) (49260)	ACETO-CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61030)	ALA-CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61031)	ALA-CHLOR, (ESA) WAT FLT 0.7U GF REC (µG/L) (50009)	ALA-CHLOR, WATER, DISS, REC, (µG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (µG/L) (39632)
OCT 1999									
06...	0910	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.170	<.002	.116
NOV									
03...	0910	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.200	<.002	.145
DEC									
08...	0830	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.930	<.002	.121
14...	1430	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.450	<.002	.125
JAN 2000									
05...	1040	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.170	<.002	.134
FEB									
03...	0920	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.150	<.002	.146
28...	1420	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.060	<.002	.083
MAR									
08...	1059	FIELD BLANK	<.05	--	<.05	<.05	<.050	--	--
08...	1100	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.100	<.002	.134
21...	0900	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.200	<.002	.089
22...	1020	ENVIRONMENTAL	<.05	--	<.05	<.05	.060	--	--
APR									
05...	0920	ENVIRONMENTAL	--	<.002	--	--	--	<.002	.133
18...	1000	ENVIRONMENTAL	--	<.002	--	--	--	<.002	.112
MAY									
03...	0810	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.120	<.002	.108
03...	0811	SPLIT REPLICATE	--	.006	--	--	--	<.002	.120
17...	0810	ENVIRONMENTAL	<.05	.022	<.05	<.05	.340	.004	.407
JUN									
01...	0830	ENVIRONMENTAL	<.05	.009	<.05	<.05	.140	<.002	.272
14...	1300	ENVIRONMENTAL	<.05	.059	<.05	<.05	.290	.027	1.23
29...	0950	ENVIRONMENTAL	.28	.005	<.05	<.05	.270	.004	.471
JUL									
11...	1000	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.160	<.002	.363
AUG									
02...	1100	ENVIRONMENTAL	<.05	.010	<.05	<.05	.150	<.007	.275
14...	1010	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.180	<.002	.263
28...	1410	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.150	<.002	.204

DATE	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µG/L) (82674)	CHLOR-PYRIFOS DIS- SOLVED (µG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µG/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µG/L) (04040)	DI-AZINON, DIS- SOLVED (µG/L) (39572)	DI-ELDRIN DIS- SOLVED (µG/L) (39381)	EPTC WATER FLTRD 0.7 µ GF, REC (µG/L) (82668)
OCT 1999											
06...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.17	<.002	<.001	<.002
NOV											
03...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.21	.010	<.001	<.002
DEC											
08...	<.005	<.002	E.030	<.003	<.004	<.004	<.002	E.17	<.002	<.001	<.002
14...	<.002	<.002	E.005	<.003	<.004	<.004	E.002	E.18	<.002	<.001	<.002
JAN 2000											
05...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.19	<.002	<.001	<.002
FEB											
03...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.25	<.002	<.001	<.002
28...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.13	<.002	<.001	.016
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.21	<.002	<.001	<.002
21...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.17	<.002	<.001	<.002
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	<.002	<.002	<.003	<.040	<.004	<.004	<.002	E.20	<.002	<.001	E.002
18...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.21	<.002	<.001	<.002
MAY											
03...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.15	<.002	<.001	<.002
03...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.20	<.002	<.001	<.002
17...	<.002	<.002	E.006	<.003	<.004	<.004	<.002	E.22	E.001	<.001	<.002
JUN											
01...	<.002	<.002	<.003	<.003	E.003	<.008	<.002	E.18	.140	<.001	<.002
14...	<.002	<.002	E.23	<.003	.007	.075	<.002	E.22	.038	<.001	<.002
29...	<.002	<.002	<.003	E.020	.007	.006	<.002	E.18	.005	<.001	<.002
JUL											
11...	<.002	<.002	E.024	<.020	<.004	.007	<.002	E.28	<.002	<.001	<.002
AUG											
02...	<.002	<.002	E.15	<.003	<.004	<.004	<.002	E.21	.015	<.001	<.002
14...	<.002	<.002	<.003	<.003	<.004	.005	<.002	E.23	<.002	<.001	<.002
28...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.25	.011	<.001	<.002

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES--Continued

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

DATE	FONOFOS	LINDANE	LIN-URON	MALA-THION	METHYL	METOLA-	METOLA-	METO-	METRI-	NAPROP-	P, P' DDE
	WATER DISS REC (µG/L) (04095)	DIS- SOLVED (µG/L) (39341)	WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	DIS- SOLVED (µG/L) (39532)	PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686)	CHLOR ESA FLTRD 0.7 µM GF REC (µG/L) (61043)	CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61044)	LACHLOR WATER DISSOLV (µG/L) (39415)	BUZIN SENCOR WATER DISSOLV (µG/L) (82630)	AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)	
OCT 1999											
06...	<.003	<.004	<.002	<.005	<.001	.67	.12	.015	<.004	<.003	<.006
NOV											
03...	<.003	<.004	<.002	<.005	<.001	.73	.07	.014	<.004	<.003	<.006
DEC											
08...	<.003	<.004	<.002	<.005	<.001	1.43	.11	.010	<.004	<.003	<.006
14...	<.003	<.004	<.002	<.005	<.001	1.05	.07	.011	<.004	<.003	<.006
JAN 2000											
05...	<.003	<.004	<.002	<.005	<.001	.37	<.05	.012	<.004	<.003	<.006
FEB											
03...	<.003	<.004	<.002	<.005	<.001	.61	<.05	.010	<.004	<.003	<.006
28...	<.003	<.004	<.002	<.005	<.001	.49	.25	.031	<.004	<.003	<.006
MAR											
08...	--	--	--	--	--	<.05	<.05	--	--	--	--
08...	<.003	<.004	<.002	<.005	<.001	.47	<.05	.011	<.004	<.003	<.006
21...	<.003	<.004	<.002	<.005	<.001	.64	<.05	.011	<.004	<.003	<.006
22...	--	--	--	--	--	.34	.10	--	--	--	--
APR											
05...	<.003	<.004	<.002	<.005	<.001	--	--	.023	<.004	<.030	E.001
18...	<.003	<.004	<.002	<.005	<.001	--	--	.016	<.004	<.003	<.006
MAY											
03...	<.003	<.004	<.002	<.005	<.001	.60	<.05	.014	<.004	<.003	<.006
03...	<.003	<.004	<.002	<.005	<.001	--	--	.015	<.004	<.003	<.006
17...	<.003	<.004	<.002	<.005	<.001	.70	.21	.166	<.004	<.003	<.006
JUN											
01...	<.003	<.004	<.002	<.005	<.001	.53	.06	.070	<.004	<.003	<.006
14...	<.003	<.004	<.002	<.005	<.001	.64	.24	1.20	<.004	<.003	<.006
29...	<.003	<.004	<.002	<.005	<.001	.65	.21	.113	<.004	<.003	<.006
JUL											
11...	<.003	<.004	<.002	<.005	<.001	.74	.14	.075	<.004	<.003	<.006
AUG											
02...	<.003	<.004	.509	<.020	<.001	.87	.30	.492	<.004	<.003	<.006
14...	<.003	<.004	<.002	<.005	<.001	.69	.08	.037	<.004	<.003	<.006
28...	<.003	<.004	<.002	<.005	<.001	.59	.07	.024	<.004	<.003	<.006
DATE	PENDI-	PRO-	PRON-	PROPA-	PRO-	SI-	TEBU-	TER-	TER-	TRIAL-	TRI-
	METH-	PRO-	AMIDE	PROPA-	PANIL	SI-	THIURON	BACIL	BUTHYL-	LATE-	FLUR-
	ALIN	METON,	WATER	CHLOR,	WATER	MAZINE,	WATER	WATER	AZINE,	WATER	ALIN
	WAT FLT	WATER,	FLTRD	WATER,	FLTRD	WATER,	FLTRD	FLTRD	WATER,	FLTRD	WAT FLT
	0.7 µ	DISS,	0.7 µ	DISS,	0.7 µ	DISS,	0.7 µ	0.7 µ	DISS,	0.7 µ	0.7 µ
	GF, REC	REC	GF, REC	REC	GF, REC	REC	GF, REC	GF, REC	GF, REC	GF, REC	GF, REC
	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)
	(82683)	(04037)	(82676)	(04024)	(82679)	(04035)	(82670)	(82665)	(04022)	(82678)	(82661)
OCT 1999											
06...	<.004	E.015	<.003	<.007	<.004	.018	E.009	<.007	<.005	<.001	<.002
NOV											
03...	<.004	E.017	<.003	<.007	<.004	.020	.012	<.007	<.005	<.001	<.002
DEC											
08...	<.004	E.015	<.003	<.007	<.004	.017	.012	<.007	<.005	<.001	<.002
14...	<.004	E.016	<.003	<.007	<.004	.017	E.010	<.007	<.005	<.001	<.002
JAN 2000											
05...	<.004	E.014	<.003	<.007	<.004	.017	.015	<.007	<.005	<.001	<.002
FEB											
03...	<.004	E.014	<.003	<.007	<.004	.018	.014	<.007	<.005	<.001	<.002
28...	<.010	E.009	<.003	<.007	<.004	.012	E.011	<.007	<.005	<.001	<.002
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	<.004	E.013	<.003	<.007	<.004	.019	.010	<.007	<.005	<.001	<.002
21...	<.004	E.013	<.003	<.007	<.004	.015	.011	<.007	--	<.001	<.002
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	<.004	E.015	<.003	<.007	<.004	.015	.012	<.007	--	<.001	<.002
18...	<.004	<.018	<.003	<.007	<.004	.014	.011	<.007	--	<.001	<.002
MAY											
03...	<.004	E.014	<.003	<.007	<.004	.118	.013	<.007	--	<.001	<.002
03...	<.004	E.013	<.003	<.007	<.004	.122	.013	<.007	--	<.001	<.002
17...	.017	E.015	<.003	<.007	<.004	.029	.012	<.007	<.005	<.001	<.002
JUN											
01...	.013	.026	<.003	<.007	<.004	.023	.013	<.007	<.005	<.001	<.002
14...	.054	.026	<.003	<.007	<.004	.021	<.011	<.007	<.005	<.001	.006
29...	.032	E.018	<.003	<.007	<.004	.113	E.007	<.007	<.005	<.001	<.002
JUL											
11...	<.004	.019	<.003	<.007	<.004	.038	<.010	<.007	<.005	<.001	<.002
AUG											
02...	<.004	E.016	<.003	<.007	<.004	.018	E.007	<.007	<.005	<.001	.008
14...	<.004	E.013	<.003	<.007	<.004	.023	E.009	<.007	<.005	<.001	<.002
28...	<.004	E.015	<.003	<.007	<.004	.020	E.008	<.007	<.005	<.001	<.002

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	14.0	12.5	13.0	4.5	3.0	3.5	5.5	4.5	5.0
2	16.0	13.5	14.5	14.0	13.0	13.5	4.5	3.0	3.5	7.5	5.0	6.0
3	16.0	14.5	15.5	---	---	---	6.0	4.5	5.0	8.5	7.5	8.0
4	16.0	15.0	15.5	---	---	---	9.0	6.0	7.5	10.0	8.5	9.5
5	---	---	---	---	---	---	10.0	9.0	9.5	9.5	5.0	7.5
6	---	---	---	11.5	9.0	10.0	10.5	9.5	10.0	5.0	3.5	4.0
7	13.0	11.5	12.0	10.5	8.5	9.5	10.0	7.5	9.0	5.0	4.0	4.5
8	12.5	10.5	11.5	9.0	7.5	8.5	7.5	6.0	6.5	4.5	3.5	4.0
9	14.5	12.5	13.5	9.5	7.5	8.5	6.5	5.5	6.0	6.0	4.5	5.0
10	15.5	14.5	15.0	---	---	---	7.0	6.0	6.5	7.0	6.0	6.5
11	16.0	15.0	15.5	---	---	---	6.5	5.5	6.0	7.0	5.5	6.0
12	15.0	12.5	13.5	---	---	---	5.5	4.5	5.0	6.0	5.0	5.5
13	15.0	12.0	13.5	---	---	---	5.5	4.5	5.0	5.5	4.0	5.0
14	15.0	12.5	13.5	---	---	---	6.5	5.5	6.0	4.0	1.0	1.5
15	12.5	10.5	11.5	---	---	---	8.0	6.0	7.0	2.5	.5	1.5
16	12.5	10.5	11.5	---	---	---	8.5	7.0	8.0	4.5	2.5	3.5
17	14.0	12.5	13.0	---	---	---	7.0	5.5	6.0	3.5	.0	1.0
18	14.0	12.5	13.5	6.0	4.0	5.0	7.0	6.0	6.5	.5	.0	.0
19	12.5	10.5	11.5	7.5	5.5	6.5	6.5	5.5	6.0	1.0	.0	.5
20	12.0	11.5	11.5	9.5	7.0	8.0	6.5	5.5	6.0	2.0	1.0	1.5
21	11.5	10.5	11.0	11.5	9.5	10.5	6.5	6.0	6.5	1.5	.0	.5
22	11.5	10.0	11.0	12.0	10.5	11.5	6.0	5.0	5.5	.0	.0	.0
23	11.5	10.5	11.0	13.0	12.0	12.5	5.0	3.5	4.5	1.5	.0	.5
24	10.5	9.5	10.0	14.5	13.0	13.5	4.5	2.5	3.0	3.5	1.5	2.5
25	11.0	9.5	10.0	13.5	12.0	13.0	2.5	1.5	2.0	3.0	.0	1.5
26	11.0	9.0	10.0	13.5	11.0	12.0	3.5	2.0	2.5	1.5	.0	1.0
27	11.0	10.0	10.5	13.5	11.0	12.5	4.0	3.0	3.5	1.5	.0	.5
28	11.0	9.5	10.0	11.0	8.5	9.5	4.0	2.5	3.0	.5	.0	.0
29	11.0	9.0	10.0	8.5	6.5	7.5	3.5	3.0	3.0	.5	.0	.0
30	12.0	10.5	11.0	6.5	4.5	5.5	4.5	2.5	3.5	.0	.0	.0
31	13.0	11.5	12.0	---	---	---	6.0	4.5	5.0	.5	.0	.0
MONTH	16.0	9.0	12.2	14.5	4.0	10.0	10.5	1.5	5.5	10.0	.0	3.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	.0	.5	8.5	6.5	7.5	13.0	8.5	11.0	15.5	12.0	14.0
2	1.5	.5	1.0	8.5	6.5	7.5	13.0	10.5	12.0	16.5	14.5	16.0
3	.5	.0	.5	8.0	5.5	7.0	15.5	12.0	13.5	16.5	13.5	15.0
4	2.5	.5	1.5	9.0	6.0	7.5	15.5	12.0	14.0	18.0	14.5	16.5
5	4.0	2.5	3.0	10.0	7.0	8.5	12.0	9.0	10.0	19.0	17.0	18.0
6	3.5	2.0	2.5	9.5	7.5	9.0	14.0	9.0	11.0	20.0	17.5	19.0
7	3.5	2.0	3.0	11.0	7.0	9.0	13.5	11.0	12.0	21.0	19.0	20.0
8	3.0	1.0	2.0	13.0	9.5	11.5	14.5	11.0	13.0	21.5	19.5	20.5
9	2.0	.0	1.0	13.0	11.0	12.0	13.5	8.5	10.5	21.5	20.0	21.0
10	4.0	1.5	2.5	12.5	11.0	12.0	12.0	8.5	10.0	21.5	17.5	20.0
11	5.5	4.0	5.0	12.0	8.0	9.5	12.0	9.5	10.0	18.0	15.5	17.0
12	5.0	2.5	3.5	8.0	6.5	7.5	12.0	9.5	11.0	19.0	17.5	18.5
13	2.5	1.0	1.5	9.0	5.0	7.0	12.0	8.5	10.5	19.0	17.5	18.0
14	4.5	2.5	3.5	10.5	7.0	9.0	12.5	9.5	11.0	18.5	16.5	17.5
15	5.0	3.5	4.5	11.5	8.0	10.0	12.5	11.5	12.0	17.5	15.5	16.5
16	6.0	4.0	5.0	11.5	9.5	10.5	17.0	12.5	14.5	16.0	14.0	15.0
17	6.0	4.0	4.5	11.5	7.0	9.5	16.5	10.0	13.0	17.0	15.5	16.5
18	4.5	2.5	3.5	8.0	4.5	6.5	10.0	9.0	9.5	18.5	17.0	18.0
19	5.0	2.5	4.0	9.0	6.5	8.0	14.5	9.5	11.5	19.0	16.0	17.5
20	5.5	4.0	5.0	10.0	7.5	9.0	15.5	13.5	14.5	16.0	13.0	14.0
21	5.5	3.5	5.0	9.5	5.5	7.5	15.0	11.5	13.0	14.0	12.5	13.0
22	6.5	4.0	5.0	9.5	5.5	7.5	11.5	10.5	11.0	14.5	14.0	14.0
23	7.5	5.5	6.5	12.5	8.5	10.5	11.5	10.5	11.0	15.0	13.5	14.0
24	8.0	6.0	7.0	13.0	9.0	11.0	15.0	10.0	12.5	17.5	15.0	16.0
25	9.0	6.5	7.5	12.5	10.0	11.5	15.0	12.5	13.5	17.5	16.0	16.5
26	9.0	7.0	7.5	12.5	10.5	11.5	14.0	11.5	13.0	17.5	15.5	17.0
27	9.0	7.0	8.0	11.5	8.5	10.0	14.0	10.5	11.5	17.5	14.5	16.0
28	9.0	8.0	8.5	12.0	10.0	11.0	13.5	10.5	11.5	14.5	13.5	14.0
29	9.0	6.5	8.0	11.0	9.0	9.5	15.0	11.5	13.5	16.0	14.0	15.0
30	---	---	---	11.0	7.5	9.5	15.5	13.0	14.5	16.5	15.0	15.5
31	---	---	---	12.0	8.0	10.5	---	---	---	16.5	14.5	15.5
MONTH	9.0	.0	4.2	13.0	4.5	9.3	17.0	8.5	12.0	21.5	12.0	16.6

