

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA
(National Water-Quality Assessment Station)

LOCATION.--Lat 40°09'05", long 75°36'06", Chester County, Hydrologic Unit 02040203, on right bank 70 ft downstream from two-span county bridge on French Creek Road, 4.5 mi northwest of Phoenixville, and 7.3 mi upstream from mouth.

DRAINAGE AREA.--59.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 160 ft above sea level, from topographic map. Prior to Nov. 7, 1968, nonrecording gage at site 70 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 750 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 18	1915	959	7.11	Sept. 16	1830	*9,370	*12.93
Mar. 22	0615	753	6.76				

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	15	21	23	e17	41	140	64	46	27	15	7.7	10
2	15	21	24	37	145	76	71	44	27	16	7.6	9.7
3	14	22	22	339	132	59	62	44	27	16	7.2	9.5
4	19	22	26	126	73	113	59	46	27	16	7.2	9.5
5	23	22	21	48	59	78	67	45	25	15	7.2	26
6	20	22	21	e40	50	67	58	42	24	13	7.2	139
7	18	22	21	e30	47	77	55	42	24	12	7.1	41
8	87	23	22	75	62	55	53	44	23	11	7.6	31
9	93	23	27	132	65	51	72	46	22	11	8.1	22
10	193	23	25	106	54	49	228	41	21	10	8.6	46
11	62	27	23	e60	46	48	130	39	21	11	8.0	28
12	37	35	22	e52	48	45	187	37	21	11	7.8	19
13	31	31	21	e45	91	43	109	37	22	11	7.4	16
14	27	23	21	53	63	45	86	37	26	11	26	14
15	25	22	20	156	50	64	76	35	29	11	17	15
16	24	21	20	133	48	76	78	34	24	11	12	3670
17	23	21	20	98	47	105	91	33	22	10	10	1370
18	21	20	20	394	177	122	74	33	24	9.8	9.4	146
19	21	20	19	270	120	73	67	49	25	9.6	9.0	91
20	21	20	19	90	74	60	66	43	21	9.5	8.8	68
21	20	21	19	68	61	116	66	34	21	9.7	11	70
22	20	21	19	88	51	540	68	32	24	11	11	92
23	20	21	20	85	46	163	70	55	21	13	10	66
24	20	21	18	279	45	115	75	125	19	11	9.4	51
25	20	21	e18	165	43	97	61	74	18	10	9.0	44
26	20	54	e17	89	43	82	57	44	17	8.9	79	41
27	20	50	e17	68	41	75	54	38	17	8.7	39	37
28	21	30	e17	59	70	79	50	34	16	8.2	21	37
29	21	26	e20	52	---	76	49	32	16	8.1	15	38
30	22	24	e19	45	---	66	47	30	16	7.7	11	157
31	21	---	e18	41	---	61	---	28	---	7.7	10	---
TOTAL	1014	750	639	3340	1892	2916	2350	1343	667	343.9	416.3	6413.7
MEAN	32.7	25.0	20.6	108	67.6	94.1	78.3	43.3	22.2	11.1	13.4	214
MAX	193	54	27	394	177	540	228	125	29	16	79	3670
MIN	14	20	17	17	41	43	47	28	16	7.7	7.1	9.5
CFSM	.55	.42	.35	1.82	1.14	1.59	1.33	.73	.38	.19	.23	3.62
IN.	.64	.47	.40	2.10	1.19	1.84	1.48	.85	.42	.22	.26	4.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1999, BY WATER YEAR (WY)

MEAN	49.1	71.7	99.7	111	125	143	138	106	77.5	61.3	39.5	49.2
MAX	180	166	328	394	266	350	306	250	353	258	110	214
(WY)	1997	1973	1997	1979	1984	1994	1983	1989	1972	1984	1971	1999
MIN	17.9	24.6	19.2	13.7	39.7	40.5	35.6	31.9	22.2	11.1	13.4	14.1
(WY)	1987	1982	1981	1981	1969	1981	1985	1969	1999	1999	1999	1980

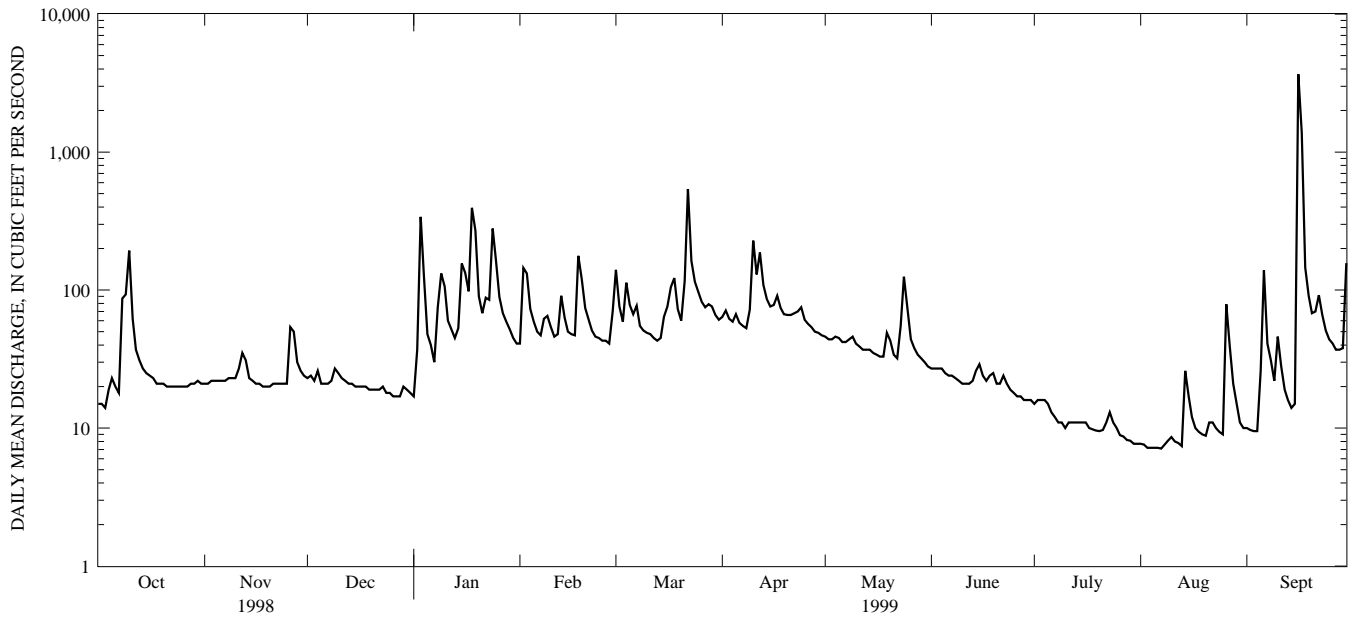
e Estimated.

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1969 - 1999	
ANNUAL TOTAL	30576		22084.9			
ANNUAL MEAN	83.8		60.5		89.0	
HIGHEST ANNUAL MEAN					155	1984
LOWEST ANNUAL MEAN					36.2	1981
HIGHEST DAILY MEAN	672	Apr 2	3670	Sep 16	4530	Jun 22 1972
LOWEST DAILY MEAN	14	Oct 3	7.1	Aug 7	7.1	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	15	Sep 27	7.3	Aug 2	7.3	Aug 2 1999
INSTANTANEOUS PEAK FLOW			a9370	Sep 16	a11200	Jun 22 1972
INSTANTANEOUS PEAK STAGE			12.93	Sep 16	13.66	Jun 22 1972
INSTANTANEOUS LOW FLOW			6.9	Aug 8	6.9	Aug 8 1999
ANNUAL RUNOFF (CFSM)	1.42		1.02		1.51	
ANNUAL RUNOFF (INCHES)	19.25		13.90		20.47	
10 PERCENT EXCEEDS	179		92		170	
50 PERCENT EXCEEDS	49		28		56	
90 PERCENT EXCEEDS	19		10		20	

a From rating curve extended above 2,500 ft³/s, on basis of slope-area measurement of peak flow.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued
(National Water-Quality Assessment Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1950 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 1998 to April 1999, June 1999 to August 1999.

INSTRUMENTATION.--Water-temperature data logger (in situ system; measurements recorded every 15 or 30 minutes) located at gage.

REMARKS.--Those data on pages 241-249 were collected as part of the Delaware River Basin NAWQA project.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	AGENCY ANA- LYZING SAMPLE NUMBER (CODE (00028)	AGENCY COL- LECTING SAMPLE NUMBER (CODE (00027)	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)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	
NOV 1998 05...	0900	80020	1028	22	12.8	7.78	172	4.50	64	
DATE		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 AD- SORP- TION RATIO (00931)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD IT FIELD SODIUM MG/L AS PERCENT (00419)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	
NOV 1998 05...	17	5.2	1.7	.4	7.3	20	39	12	<.1	
DATE		SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (µG/L AS B) (01020)	IRON, DIS- SOLVED (µG/L AS FE) (01046)
NOV 1998 05...	15	12	<.02	.91	<.01	.01	104	19.4	33	

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

REMARKS.--The following samples were collected as part of the Delaware River Basin National Water Quality Assessment Program (NAWQA). Fish tissue, bed sediment, and fish community data for this site are presented on pages 433-471. Interruptions in the daily record were due to instrument vandalism or malfunction.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

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-ARDS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)		
NOV 1998												
04...	1145	FIELD BLANK	--	--	--	--	--	--	--	--		
04...	1200	ENVIRONMENTAL	22	760	104	12.0	7.9	172	9.5	7.5		
DEC 09...	1550	ENVIRONMENTAL	28	765	102	11.9	8.4	167	12.0	8.5		
JAN 1999												
12...	1500	ENVIRONMENTAL	94	757	96	14.0	7.7	187	1.0	.0		
FEB 03...	1430	ENVIRONMENTAL	114	760	100	12.6	7.5	139	13.0	5.5		
MAR 03...	1410	ENVIRONMENTAL	56	746	107	12.8	7.8	151	17.0	7.0		
03...	1411	SPLIT REPLICATE	--	--	--	--	--	--	--	--		
APR 07...	1410	ENVIRONMENTAL	55	757	112	11.0	8.0	151	22.0	16.0		
MAY 05...	1330	ENVIRONMENTAL	45	750	114	10.4	8.0	151	24.5	19.0		
JUN 02...	1430	ENVIRONMENTAL	27	755	133	11.0	8.2	162	29.5	24.5		
JUL 01...	1340	ENVIRONMENTAL	15	758	--	--	8.2	161	26.0	23.0		
AUG 04...	1430	ENVIRONMENTAL	7.2	754	--	--	8.6	163	32.5	25.0		
31...	0740	ENVIRONMENTAL	10	764	--	--	7.8	194	19.5	17.0		
SEP 16...	1820	ENVIRONMENTAL	9370	738	--	8.9	7.3	64	16.5	--		
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 AS 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)
NOV 1998												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	66	17	5.4	1.7	7.5	50	50	61	--	12	--	<.1
DEC 09...	56	15	4.6	1.6	7.2	46	44	54	--	11	--	<.1
JAN 1999												
12...	54	14	4.8	2.8	12	31	30	36	--	21	--	<.1
FEB 03...	43	11	4.0	1.9	7.7	24	23	28	--	14	--	<.1
MAR 03...	48	12	4.2	1.5	7.6	--	28	34	--	14	--	<.1
03...	50	13	4.4	1.6	7.9	--	--	--	--	14	--	<.1
APR 07...	51	13	4.4	1.3	7.3	--	33	41	--	12	--	<.1
MAY 05...	50	13	4.3	1.2	6.6	--	36	44	--	11	--	<.1
JUN 02...	57	15	4.6	1.4	7.4	--	40	49	--	12	--	<.1
JUL 01...	59	16	4.7	1.4	6.9	--	45	54	--	11	--	.1
AUG 04...	61	17	4.8	1.5	7.2	--	49	55	3	11	--	<.1
31...	69	18	5.6	2.0	8.3	--	47	57	--	13	--	<.1
SEP 16...	16	4.0	1.6	2.9	1.7	--	13	15	--	2.6	--	.1

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01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, 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)
NOV 1998											
04...	--	--	--	--	--	--	--	--	--	--	--
04...	15	12	<.02	.1	.2	.93	.82	1.0	<.01	<.05	<.01
DEC											
09...	13	12	<.02	.2	.2	1.2	1.0	1.2	<.01	<.05	.01
JAN 1999											
12...	14	15	.08	.3	.5	2.0	1.6	2.1	<.01	.051	.04
FEB											
03...	12	14	.04	.3	.4	1.5	1.1	1.5	.01	.032	.02
MAR											
03...	13	14	<.02	.2	.2	1.7	1.5	1.7	.01	.012	<.01
03...	13	14	<.02	.2	.2	1.6	1.5	1.7	.02	.012	.01
APR											
07...	13	12	<.02	.2	.2	1.3	1.1	1.4	<.01	.015	<.01
MAY											
05...	11	12	.05	.2	.3	1.5	1.3	1.5	<.01	.015	.02
JUN											
02...	16	14	.03	.2	.2	1.6	1.3	1.5	.01	.03	.03
JUL											
01...	15	11	.02	.2	.2	.99	.82	1.0	.01	.025	.03
AUG											
04...	16	9.2	<.02	.2	.2	.46	.28	.51	<.01	.026	.02
31...	16	20	<.02	.2	.2	.82	.62	.82	<.01	.025	.02
SEP											
16...	3.6	5.9	.06	.3	1.2	1.4	1.1	2.2	.01	.14	.12
DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
NOV 1998											
04...	--	--	--	--	--	--	--	<.1	<.2	--	--
04...	<.05	114	104	.0	E12.4	30	7	1.9	.2	.48	8
DEC											
09...	<.05	110	96	.4	E7.5	54	<3	1.8	.2	.11	1
JAN 1999											
12...	.077	125	108	20	9.6	75	20	4.1	.3	2.0	8
FEB											
03...	.063	100	84	20	<16.0	94	16	5.2	.2	3.1	10
MAR											
03...	.025	100	89	3	<16.0	62	10	2.5	.2	.50	3
03...	.026	102	--	--	<16.0	64	10	--	--	--	--
APR											
07...	.025	97	88	4	E9.2	84	8	2.3	.3	.82	6
MAY											
05...	.026	101	86	3	E7.8	76	6	1.9	.2	.67	6
JUN											
02...	.046	124	100	4	E11.9	79	6	1.9	.3	.24	3
JUL											
01...	.045	119	97	3	E11.5	58	9	2.1	.3	.18	4
AUG											
04...	.061	104	97	--	E7.1	57	9	2.0	.3	.08	4
31...	.03	124	114	--	E14.5	22	9	2.9	.2	.10	4
SEP											
16...	.45	52	35	330	20.7	93	34	6.3	>4.0	7590	300

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

REMARKS.--Selected samples were analyzed for volatile organic compounds (VOCs) on schedule 2020/2021 (listed with minimum reporting levels on pages 430-431). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	CARBON DI- SULFIDE WATER WHOLE TOTAL (µG/L) (77041)	1,1,1- TRI- CHLORO- ETHANE TOTAL (µG/L) (34506)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (µG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (µG/L) (34501)	ACETONE WATER WHOLE TOTAL (µG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (µG/L) (77613)	BENZENE 123-TRI METHYL- WATER UNFLTRD RECOVER (µG/L) (77221)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (µG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (µG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (µG/L) (77226)	
MAY 1999 05...	1330	<.37	<.032	<.066	<.044	<5	<.27	<.12	<.19	<.056	<.044	
SEP 16...	1820	<.37	<.032	<.066	<.044	<5	<.27	<.12	<.19	<.056	<.044	
DATE		BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (µG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (µG/L) (34571)	ISO- PROPYL- BENZENE WATER WHOLE REC (µG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (µG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (µG/L) (77224)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (µG/L) (34536)	BENZENE TOTAL (µG/L) (34030)	BROMO- FORM TOTAL (µG/L) (32104)	CHLORO- BENZENE TOTAL (µG/L) (34301)	CHLORO- DI- BROMO- METHANE TOTAL (µG/L) (32105)	CHLORO- FORM TOTAL (µG/L) (32106)
MAY 1999 05...	<.054	<.05	<.032	<.19	<.042	<.048	<.1	<.1	<.028	<.18	<.052	
SEP 16...	<.054	<.05	<.032	<.19	<.042	<.048	<.1	<.1	<.028	<.18	<.052	
DATE		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- PENTYL METHYL WATER UNFLTRD RECOVER (µG/L) (50005)	ETHYL- BENZENE TOTAL (µG/L) (34371)	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)
MAY 1999 05...	<.038	<.048	<.17	<.11	<.03	<9	<.2	E.0704	<.25	<.38	<1.6	
SEP 16...	<.038	<.048	<.17	<.11	<.03	<9	<.2	<.17	<.25	<.38	<1.6	
DATE		METHYL ISO- BUTYL KETONE WAT. WH. TOTAL (µG/L) (78133)	META/ PARA- XYLENE WATER UNFLTRD REC (µG/L) (85795)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (µG/L) (77275)	O- XYLENE WATER WHOLE TOTAL (µG/L) (77135)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (µG/L) (77356)	PREH- NITENE WATER UNFLTRD RECOVER (µG/L) (49999)	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)
MAY 1999 05...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	<.1	<.1	E.0554	E.0188	
SEP 16...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	<.1	<.1	<.05	<.038	

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES

REMARKS.--Selected samples were analyzed for pesticides on schedule 2001 (listed with minimum reporting levels on page 429). Only pesticides identified by the analyses in one or more samples are listed in the water-quality tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	ACETO- CHLOR, WATER, FLTRD REC (µG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µG/L) (46342)	ATRA- ZINE, WATER, DISS, REC, (µG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µG/L) (82673)	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)
DEC 1998 09...	1550	<.002	<.002	.0066	<.002	<.003	<.003	<.004	<.004	<.002
JAN 1999 12...	1500	<.002	<.002	.0116	<.002	E.0070	<.003	<.004	<.004	<.002
FEB 03...	1430	<.002	<.002	.0104	<.002	<.003	<.003	<.004	<.004	<.002
MAR 03...	1410	<.002	<.002	.0083	<.002	<.003	<.003	<.004	<.004	<.002
APR 07...	1410	<.002	<.002	.0083	<.002	<.003	<.003	<.004	<.004	<.002
MAY 05...	1330	<.002	<.002	.0095	<.002	<.003	<.003	<.004	<.004	<.002
JUN 02...	1430	<.002	<.002	.0200	<.002	<.003	<.030	<.004	<.004	<.002
JUL 01...	1340	<.002	<.002	.0130	<.002	<.003	<.003	<.004	<.004	<.002
AUG 04...	1430	<.002	<.002	.0079	<.002	<.003	<.003	<.004	<.004	<.002
AUG 31...	0740	<.002	<.002	.0069	<.002	<.003	<.003	<.004	<.004	<.002
SEP 16...	1820	<.002	.0135	.0221	<.002	<.003	<.003	<.004	.0284	.0040
DATE	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)	LINDANE DIS- SOLVED (µG/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	MALA- THION, DIS- SOLVED (µG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686)	METO- LACHLOR WATER DISSOLV (µG/L) (39415)	METRI- BUZIN WATER DISSOLV (µG/L) (82630)
DEC 1998 09...	E.0265	<.002	<.001	<.002	<.004	<.002	<.005	<.001	<.002	<.004
JAN 1999 12...	E.0235	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0155	<.004
FEB 03...	E.0180	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0113	<.004
MAR 03...	E.0124	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0067	<.004
APR 07...	E.0219	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0060	<.004
MAY 05...	E.0292	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0075	<.004
JUN 02...	E.0213	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0082	<.004
JUL 01...	E.0460	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0070	<.004
AUG 04...	E.0337	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0046	<.004
AUG 31...	E.0231	<.002	<.001	<.002	<.004	<.002	<.005	<.001	E.0028	<.004
SEP 16...	E.0095	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0316	<.004

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)	P, P' DDE DISSOLV (µG/L) (34653)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)	PRO- METON, WATER, DISS, REC (µG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82679)	SI- MAZINE, WATER, DISS, REC (µG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µG/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82665)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)
DEC 1998										
09...	<.003	<.006	<.004	<.018	<.003	<.004	.0082	<.010	<.007	<.002
JAN 1999										
12...	<.003	<.006	<.004	<.018	<.003	<.004	.0602	<.010	<.007	<.002
FEB										
03...	<.003	<.006	<.004	<.018	<.003	<.004	.0121	<.010	<.007	<.002
MAR										
03...	<.003	<.006	<.004	<.018	<.003	<.004	.0124	<.010	<.007	<.002
APR										
07...	<.003	<.006	<.004	<.018	<.003	<.004	.0119	<.010	<.007	<.002
MAY										
05...	<.003	<.006	<.004	<.018	<.003	<.004	.0131	<.010	<.007	<.002
JUN										
02...	<.003	<.006	<.004	<.018	<.003	<.004	.164	<.010	<.007	<.002
JUL										
01...	<.003	<.006	<.004	<.018	<.003	<.004	.135	<.010	<.007	<.002
AUG										
04...	<.003	<.006	<.004	<.018	<.003	<.004	.176	<.010	<.007	<.002
31...	<.003	<.006	<.004	<.018	<.003	<.004	.0392	<.010	<.007	<.002
SEP										
16...	<.003	<.006	<.004	<.018	<.003	<.004	.0117	<.010	<.007	<.002

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES

Date	11/05/98
Benthic Macroinvertebrate	Count
Platyhelminthes	
Turbellaria (Flatworms)	
Tricladida	
Planariidae	1
Nematoda (Nematodes)	2
Nemertea (Proboscis Worms)	
Enopla	
Hoploneurata	
Tetrastemmatidae	
<i>Prostoma</i>	1
Mollusca	
Gastropoda (Snails)	
Basommatophora	
Ancyliidae	
<i>Ferrissia</i>	16
Planorbidae	
<i>Helisoma</i>	1
Mesogastropoda	
Hydrobiidae	
<i>Ammicola</i>	1
Pleuroceridae	
<i>Goniobasis</i>	2
Bivalvia (Clams)	
Veneroidea	
Sphaeriidae	1
Annelida (Segmented Worms)	
Oligochaeta	13
Arthropoda	
Acariformes	
Hydrachnidia (Water Mites)	43
Crustacea	
Isopoda (Sow Bugs)	
Asellidae	
<i>Caecidotea</i>	1
Insecta	
Ephemeroptera (Mayflies)	
Baetidae	
<i>Baetis</i>	1
<i>Pseudocloeon</i>	2
Ephemerellidae	
<i>Serratella</i>	61
Heptageniidae	
<i>Epeorus</i>	6
<i>Stenonema</i>	76
Isonychiidae	
<i>Isonychia</i>	73
Odonata (Dragonflies and Damselflies)	
Coenagrionidae	
<i>Argia</i>	3
Gomphidae	
<i>Lanthus</i>	1

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES--Continued

Date	11/05/98
Benthic Macroinvertebrate	Count
Plecoptera (Stoneflies)	
Chloroperlidae	
<i>Utaperla</i>	1
Perlidae	
<i>Acroneuria</i>	5
<i>Agetina</i>	8
Taeniopterygidae	
<i>Taeniopteryx</i>	2
Trichoptera (Caddisflies)	
Brachycentridae	
<i>Micrasema</i>	33
Glossosomatidae	
<i>Glossosoma</i>	27
<i>Protoptila</i>	4
Helicopsychidae	
<i>Helicopsyche</i>	5
Hydropsychidae	
<i>Cheumatopsyche</i>	207
<i>Hydropsyche</i>	173
<i>Macrostemum</i>	3
Hydroptilidae	
<i>Leucotrichia</i>	57
Lepidostomatidae	
<i>Lepidostoma</i>	12
Philopotamidae	
<i>Chimarra</i>	156
Polycentropodidae	
<i>Polycentropus</i>	1
Psychomyiidae	
<i>Psychomyia</i>	2
Uenoidae	
<i>Neophylax</i>	10
Coleoptera (Beetles)	
Elmidae (Riffle Beetles)	
<i>Optioservus</i>	39
<i>Oulimnius</i>	17
<i>Promoresia</i>	2
<i>Stenelmis</i>	4
Hydrophilidae	
<i>Berosus</i>	1
Psephenidae (Water Pennies)	
<i>Ectopria</i>	1
Diptera (True Flies)	
Chironomidae (Midges)	108
Empididae (Dance Flies)	
<i>Hemerodromia</i>	15
Simuliidae (Black Flies)	
<i>Simulium</i>	4
Tipulidae (Crane Flies)	
<i>Antocha</i>	11
<i>Tipula</i>	1
Total count	1,227
Total number of taxa	48

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	23.0	21.0	22.0	28.5	25.0	26.5	---	---	---
2	---	---	---	25.0	22.0	23.5	28.5	22.5	25.0	---	---	---
3	23.5	20.0	21.5	26.5	21.5	24.0	27.0	21.0	23.5	---	---	---
4	23.0	18.5	20.5	28.5	23.5	26.0	---	---	---	---	---	---
5	22.5	17.0	19.5	30.5	24.5	27.0	---	---	---	---	---	---
6	23.0	17.0	19.5	30.5	25.0	27.5	---	---	---	---	---	---
7	25.0	19.0	22.0	29.5	24.5	26.5	---	---	---	---	---	---
8	26.5	21.0	23.5	26.5	21.5	24.0	---	---	---	---	---	---
9	26.5	21.0	23.0	26.5	20.0	23.5	---	---	---	---	---	---
10	22.0	19.0	21.0	24.5	21.5	23.5	---	---	---	---	---	---
11	23.0	17.0	20.0	25.0	19.0	21.5	---	---	---	---	---	---
12	20.0	16.5	18.5	20.5	18.5	19.5	---	---	---	---	---	---
13	20.5	19.0	19.5	23.5	18.5	20.5	---	---	---	---	---	---
14	22.0	19.0	20.5	21.5	19.0	20.5	---	---	---	---	---	---
15	24.5	20.0	21.5	25.0	17.5	21.0	---	---	---	---	---	---
16	22.5	18.5	20.0	26.5	20.5	23.5	---	---	---	---	---	---
17	20.0	17.5	18.5	28.5	22.0	25.0	---	---	---	---	---	---
18	20.5	16.5	18.5	28.5	23.0	25.5	---	---	---	---	---	---
19	21.5	15.5	18.5	28.0	23.5	25.5	---	---	---	---	---	---
20	19.0	17.0	18.0	25.0	23.0	24.5	---	---	---	---	---	---
21	18.0	17.0	17.5	25.0	21.5	23.5	---	---	---	---	---	---
22	21.5	15.5	18.5	25.5	22.5	24.0	---	---	---	---	---	---
23	23.5	17.5	20.0	28.5	23.0	25.0	---	---	---	---	---	---
24	24.0	18.5	21.0	27.0	23.5	25.0	---	---	---	---	---	---
25	23.0	18.5	21.0	28.5	23.0	25.5	---	---	---	---	---	---
26	25.0	20.0	22.5	28.0	22.5	25.0	---	---	---	---	---	---
27	25.0	21.5	23.5	28.5	22.0	25.0	---	---	---	---	---	---
28	25.5	23.0	24.0	28.0	22.5	25.0	---	---	---	---	---	---
29	26.5	23.0	24.5	26.5	22.0	24.0	---	---	---	---	---	---
30	24.0	21.5	22.5	27.0	22.0	24.5	---	---	---	---	---	---
31	---	---	---	28.5	23.0	26.0	---	---	---	---	---	---
MONTH	26.5	15.5	20.5	30.5	17.5	24.0	---	---	---	---	---	---