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.

Discharge

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.

Discharge

Gage Height

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

Gage Height

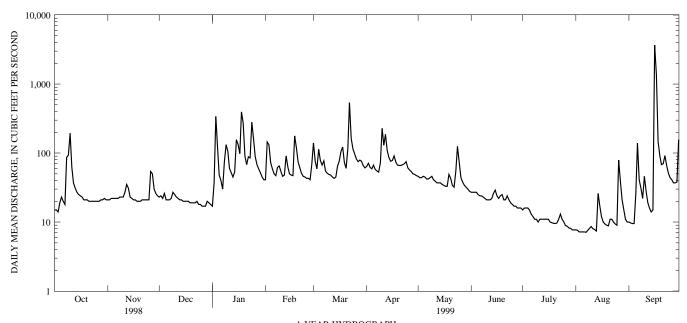
Date		Time		ft ³ /s	(ft)			Date	Time		ft ³ /s	(ft)	
Jan. Mar.		1915 0615		959 753	7.11 6.76			Sept.	16 1830	* 2	9,370	*12.93	
				DISCHA	RGE, CUBIC	FEET PER S		TER YEAR OO AN VALUES	CTOBER 1998	TO SEPT	ΓEMBER 199	9	
DAY	OCT		IOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		ľ											
1 2	15 15		21 21	23 24	e17 37	41 145	140 76	64 71	46 44	27 27	15 16	7.7 7.6	10 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 8	18 87		22 23	21 22	e30 75	47 62	77 55	55 53	42 44	24 23	12 11	7.1 7.6	41 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 14	31		31	21	e45	91 63	43 45	109	37 37	22	11	7.4	16 14
15	27 25		23 22	21 20	53 156	50	64	86 76	35	26 29	11 11	26 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 20	21 21		20 20	19 19	270 90	120 74	73 60	67 66	49 43	25 21	9.6 9.5	9.0 8.8	91 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 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 27	20 20		54 50	e17 e17	89 68	43 41	82 75	57 54	44 38	17 17	8.9 8.7	79 39	41 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 31	22 21	_	24	e19 e18	45 41		66 61	47	30 28	16 	7.7 7.7	11 10	157
TOTAL MEAN	1014 32.7		50	639 20.6	3340 108	1892 67.6	2916 94.1	2350 78.3	1343 43.3	667 22.2	343.9 11.1	416.3 13.4	6413.7 214
MAX	193	23	54	20.6	394	177	540	228	125	22.2	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
STATIST	CICS OF	MONTHI	Y MI	EAN DATA	FOR WATER	YEARS 196	i9 - 1999,	BY WATER	YEAR (WY)				
MEAN	49.1		. 7	99.7	111	125	143	138	106	77.5	61.3	39.5	49.2
MAX	180		.66	328	394	266	350	306	250	353	258	110	214
(WY)	1997	19	73	1997	1979	1984	1994	1983	1989	1972	1984	1971	1999
MIN	17.9		. 6	19.2	13.7	39.7	40.5	35.6	31.9	22.2	11.1	13.4	14.1
(WY)	1987	19	82	1981	1981	1969	1981	1985	1969	1999	1999	1999	1980

e Estimated.

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		a 9370 Sep 16	a 11200 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

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.

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	(STAND- ARD	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)		HARD- NESS TOTAL (MG/L AS CACO3) (00900)
NOV 1998 05	0900	80020	1028	22	12.8	7.78	172	4.50	64
DATE		SOLVED (MG/L AS MG)	(MG/L AS K)	SODIUM AD- SORP- TION RATIO (00931)		SODIUM PERCENT (00932)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)		
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)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)		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

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.

DATE	TIME	SAMI TYI		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 UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
NOV 1998 <i>04</i>	1145	FIELD B	I.ANK								
04 DEC	1200	ENVIRON		22	760	104	12.0	7.9	172	9.5	7.5
09 JAN 1999	1550	ENVIRON	MENTAL	28	765	102	11.9	8.4	167	12.0	8.5
12 FEB	1500	ENVIRON	MENTAL	94	757	96	14.0	7.7	187	1.0	.0
03 MAR	1430	ENVIRON	MENTAL	114	760	100	12.6	7.5	139	13.0	5.5
03 03 APR	1410 1411	ENVIRONI SPLIT R	MENTAL EPLICATE	56 	746 	107	12.8	7.8	151 	17.0 	7.0
07	1410	ENVIRON	MENTAL	55	757	112	11.0	8.0	151	22.0	16.0
MAY 05	1330	ENVIRON	MENTAL	45	750	114	10.4	8.0	151	24.5	19.0
JUN 02	1430	ENVIRON	MENTAL	27	755	133	11.0	8.2	162	29.5	24.5
JUL 01	1340	ENVIRON	MENTAL	15	758			8.2	161	26.0	23.0
AUG 04 31	1430 0740	ENVIRONI ENVIRONI		7.2 10	754 764			8.6 7.8	163 194	32.5 19.5	25.0 17.0
SEP 16	1820	ENVIRON	MENTAL	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)	DIS- SOLVED (MG/L AS NA)	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)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
DATE NOV 1998 04	NESS TOTAL (MG/L AS CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	SIUM, DIS- SOLVED (MG/L AS K)	DIS- SOLVED (MG/L AS NA)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	BONATE WATER DIS IT FIELD MG/L AS HCO3	BONATE WATER DIS IT FIELD MG/L AS CO3	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)
NOV 1998	NESS TOTAL (MG/L AS CACO3) (00900)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F) (00950)
NOV 1998 04 04	NESS TOTAL (MG/L AS CACO3) (00900)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)
NOV 1998 04 04 DEC 09 JAN 1999 12	NESS TOTAL (MG/L AS CACO3) (00900)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)
NOV 1998 04 04 DEC 09 JAN 1999	NESS TOTAL (MG/L AS CACO3) (00900)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HC03 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)
NOV 1998 04 04 DEC 09 JAN 1999 12 FEB 03	NESS TOTAL (MG/L AS CACO3) (00900)	DIS- SOLVED (MG/L AS CA) (00915) 17 15	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)
NOV 1998 04 04 DEC 09 JAN 1999 12 FEB 03 MAR 03 03	NESS TOTAL (MG/L AS CACO3) (00900) 66 56 54 43 48 50	DIS- SOLVED (MG/L AS CA) (00915) 17 15 14 11	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.4 4.6 4.8 4.0	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.7 1.6 2.8 1.9	DIS- SOLVED (MG/L AS NA) (00930) 7.5 7.2 12 7.7 7.6 7.9	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 61 54 36 28 34	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 <.1 <.1 <.1
NOV 1998 04 04 DEC 09 JAN 1999 12 FEB 03 MAR 03 03 APR 07 MAY	NESS TOTAL (MG/L AS CACO3) (00900) 66 56 54 43 48 50	DIS- SOLVED (MG/L AS CA) (00915) 17 15 14 11 12 13	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.4 4.6 4.8 4.0 4.2 4.4	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.7 1.6 2.8 1.9 1.5 1.6	DIS- SOLVED (MG/L AS NA) (00930) 7.5 7.2 12 7.7 7.6 7.9	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 61 54 36 28 34 41	BONATE WATER DIS IT FIELD MG/L AS C03 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 12 11 21 14 14 14	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 <.1 <.1 <.1 <.1 <.1
NOV 1998 04 04 DEC 09 JAN 1999 12 FEB 03 MAR 03 03 APR 07 MAY 05 JUN	NESS TOTAL (MG/L AS CACO3) (00900) 66 56 54 43 48 50 51	DIS- SOLVED (MG/L AS CA) (00915) 17 15 14 11 12 13	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.4 4.6 4.8 4.0 4.2 4.4 4.4	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.7 1.6 2.8 1.9 1.5 1.6 1.3	DIS- SOLVED (MG/L AS NA) (00930) 7.5 7.2 12 7.7 7.6 7.9 7.3	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACC3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 61 54 36 28 34 41 44	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 12 11 21 14 14 14 12	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 <.1 <.1 <.1 <.1 <.1
NOV 1998 04 04 DEC 09 JAN 1999 12 FEB 03 MAR 03 4PR 07 MAY 05 JUN 02 JUL	NESS TOTAL (MG/L AS CACO3) (00900) 66 56 54 43 48 50 51 50	DIS- SOLVED (MG/L AS CA) (00915) 17 15 14 11 12 13 13	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.4 4.6 4.8 4.0 4.2 4.4 4.4 4.3	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.7 1.6 2.8 1.9 1.5 1.6 1.3	DIS- SOLVED (MG/L AS NA) (00930) 7.5 7.2 12 7.7 7.6 7.9 7.3 6.6	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 12 11 21 14 14 12 11	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 <.1 <.1 <.1 <.1 <.1 <.1
NOV 1998	NESS TOTAL (MG/L AS CACO3) (00900) 66 56 54 43 48 50 51 50 57	DIS- SOLVED (MG/L AS CA) (00915) 17 15 14 11 12 13 13 13 15	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.4 4.6 4.8 4.0 4.2 4.4 4.3 4.6 4.7	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.7 1.6 2.8 1.9 1.5 1.6 1.3 1.2	DIS- SOLVED (MG/L AS NA) (00930) 7.5 7.2 12 7.7 7.6 7.9 7.3 6.6 7.4	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 61 54 36 28 34 41 44 49 54	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 12 11 21 14 14 14 12 11	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 <.1 <.1 <.1 <.1 <.1 <.1
NOV 1998 04 04 DEC 09 JAN 1999 12 FEB 03 MAR 03 03 4PR 07 MAY 05 JUN 02 JUL 01	NESS TOTAL (MG/L AS CACO3) (00900) 66 56 54 43 48 50 51 50	DIS- SOLVED (MG/L AS CA) (00915) 17 15 14 11 12 13 13	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.4 4.6 4.8 4.0 4.2 4.4 4.4 4.3	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.7 1.6 2.8 1.9 1.5 1.6 1.3	DIS- SOLVED (MG/L AS NA) (00930) 7.5 7.2 12 7.7 7.6 7.9 7.3 6.6	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410) 50 46 31 24 	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 12 11 21 14 14 12 11	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 <.1 <.1 <.1 <.1 <.1 <.1

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

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,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	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 APR	13	14	<.02	. 2	. 2	1.6	1.5	1.7	.02	.012	.01
07 MAY	13	12	<.02	. 2	. 2	1.3	1.1	1.4	<.01	.015	<.01
05 JUN	11	12	.05	. 2	.3	1.5	1.3	1.5	<.01	.015	.02
02 JUL	16	14	.03	. 2	. 2	1.6	1.3	1.5	.01	.03	.03
01 AUG	15	11	.02	. 2	. 2	.99	.82	1.0	.01	.025	.03
04 31	16 16	9.2 20	<.02 <.02	.2	. 2	.46 .82	.28 .62	.51 .82	<.01 <.01	.026 .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 CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	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 SUS- PENDED TOTAL (MG/L AS C) (00689)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
NOV 1998	PHORUS TOTAL (MG/L AS P) (00665)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	DIS- SOLVED (µG/L AS B) (01020)	DIS- SOLVED (µG/L AS FE) (01046)	NESE, DIS- SOLVED (µG/L AS MN)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	MENT, SUS- PENDED (MG/L)
NOV 1998 <i>04</i> 04	PHORUS TOTAL (MG/L AS P)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BID- ITY FIELD WATER UNFLTRD (NTU)	DIS- SOLVED (µG/L AS B)	DIS- SOLVED (µG/L AS FE)	NESE, DIS- SOLVED (µG/L AS MN)	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC SUS- PENDED TOTAL (MG/L AS C)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L)
NOV 1998 04 04 DEC 09	PHORUS TOTAL (MG/L AS P) (00665)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	DIS- SOLVED (µG/L AS B) (01020)	DIS- SOLVED (µG/L AS FE) (01046)	NESE, DIS- SOLVED (µG/L AS MN) (01056)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)
NOV 1998 04 04 DEC 09 JAN 1999 12	PHORUS TOTAL (MG/L AS P) (00665)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	DIS- SOLVED (µG/L AS B) (01020)	DIS- SOLVED (µG/L AS FE) (01046)	NESE, DIS- SOLVED (µG/L AS MN) (01056)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)
NOV 1998 04 04 DEC 09 JAN 1999 12 FEB 03	PHORUS TOTAL (MG/L AS P) (00665)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	DIS- SOLVED (µG/L AS B) (01020)	DIS- SOLVED (µG/L AS FE) (01046)	NESE, DIS- SOLVED (μG/L AS MN) (01056)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) <.1 1.9	ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)
NOV 1998 04 04 DEC 09 JAN 1999 12 FEB 03 MAR 03	PHORUS TOTAL (MG/L AS P) (00665) <.05 <.05	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BID- ITY FIELD WATER UNFITRD (NTU) (61028)	DIS- SOLVED (µG/L AS B) (01020) E12.4 E7.5	DIS- SOLVED (µG/L AS FE) (01046)	NESE, DIS- SOLVED (μG/L AS MN) (01056)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) <.1 1.9 1.8 4.1	ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) .48 .11	MENT, SUS- PENDED (MG/L) (80154)
NOV 1998 04 04 DEC 09 JAN 1999 12 FEB 03 MAR 03 03 APR 07	PHORUS TOTAL (MG/L AS P) (00665) <.05 <.05 .077 .063	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BID- ITY FIELD WATER UNFITRD (NTU) (61028) .0 .4 20 20	DIS- SOLVED (µG/L AS B) (01020) E12.4 E7.5 9.6 <16.0	DIS- SOLVED (µG/L AS FE) (01046) 30 54 75 94	NESE, DIS- SOLVED (μG/L AS MN) (01056) 7 <3 20 16	ORGANIC DIS- SOLVED (MG/L AS C) (00681) <.1 1.9 1.8 4.1 5.2 2.5	ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689) <.2 .2 .2 .2	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) .48 .11 2.0 3.1	MENT, SUS- PENDED (MG/L) (80154) 8 1 8 10
NOV 1998 04 04 DEC 09 JAN 1999 12 FEB 03 MAR 03 APR 07 MAY 05	PHORUS TOTAL (MG/L AS P) (00665) <.05 <.05 .077 .063 .025 .026	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 104 96 108 84 89	BID- ITY FIELD WATER UNFLTRD (NTU) (61028) .0 .4 20 20	DIS- SOLVED (µG/L AS B) (01020) E12.4 E7.5 9.6 <16.0 <16.0	DIS- SOLVED (µG/L AS FE) (01046) 30 54 75 94 62 64	NESE, DIS- SOLVED (μG/L AS MN) (01056) 7 <3 20 16	ORGANIC DIS- SOLVED (MG/L AS C) (00681) <.1 1.9 1.8 4.1 5.2 2.5	ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689) <.2 .2 .2 .2	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) .48 .11 2.0 3.1 .50	MENT, SUS- PENDED (MG/L) (80154) 8 1 8 10
NOV 1998 04 04 DEC 09 JAN 1999 12 FEB 03 MAR 03 03 APR 07 MAY 05 JUN 02	PHORUS TOTAL (MG/L AS P) (00665) <.05 <.05 .077 .063 .025 .026	RESIDUÉ AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 104 96 108 84 89 88	BID- ITY FIELD WATER UNFITRD (NTU) (61028) 0 .4 20 20 3 4	DIS- SOLVED (µG/L AS B) (01020) E12.4 E7.5 9.6 <16.0 <16.0 <16.0	DIS- SOLVED (µG/L AS FE) (01046) 30 54 75 94 62 64 84	NESE, DIS- SOLVED (μG/L AS MN) (01056) 7 <3 20 16 10 10	ORGANIC DIS- SOLVED (MG/L AS C) (00681) <.1 1.9 1.8 4.1 5.2 2.5 2.3	ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689) <.2 .2 .2 .3 .2 .2	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) .48 .11 2.0 3.1 .50 	MENT, SUS- PENDED (MG/L) (80154) 8 1 8 10 3 6
NOV 1998 04 04 DEC 09 JAN 1999 12 FEB 03 MAR 03 07 MAY 05 JUN 02 JUN 01	PHORUS TOTAL (MG/L AS P) (00665) <.05 <.05 .077 .063 .025 .026	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 114 110 125 100 100 102 97	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 104 96 108 84 89 88 86	BID- ITY FIELD WATER UNFLTRD (NTU) (61028) 0 .4 20 20 3 4 3	DIS- SOLVED (µG/L AS B) (01020) E12.4 E7.5 9.6 <16.0 <16.0 E9.2	DIS- SOLVED (µG/L AS FE) (01046) 30 54 75 94 62 64 84	NESE, DIS- SOLVED (μG/L AS MN) (01056) 7 <3 20 16 10 10 8	ORGANIC DIS- SOLVED (MG/L AS C) (00681) <.1 1.9 1.8 4.1 5.2 2.5 2.3 1.9	ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689) <.2 .2 .2 .2 .2 .3 .2 .2	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) .48 .11 2.0 3.1 .50 .82	MENT, SUS- PENDED (MG/L) (80154) 8 1 8 10 3 6
NOV 1998 04 04 DEC 09 JAN 1999 12 FEB 03 MAR 03 4PR 07 MAY 05 JUN 02	PHORUS TOTAL (MG/L AS P) (00665) <.05 <.05 .077 .063 .025 .026 .025	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 114 110 125 100 100 102 97 101 124	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301) 104 96 108 84 89 88 86 100	BID- ITY FIELD WATER UNFLTRD (NTU) (61028) 0 .4 20 20 3 4 3 4	DIS- SOLVED (μG/L AS B) (01020) E12.4 E7.5 9.6 <16.0 <16.0 E9.2 E7.8	DIS- SOLVED (µG/L AS FE) (01046) 30 54 75 94 62 64 84 76	NESE, DIS- SOLVED (μG/L AS MN) (01056) 7 <3 20 16 10 10 8 6	ORGANIC DIS- SOLVED (MG/L AS C) (00681) <.1 1.9 1.8 4.1 5.2 2.5 2.3 1.9	ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689) <.2 .2 .2 .3 .2 .2 .3 .2 	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) .48 .11 2.0 3.1 .50 .82 .67	MENT, SUS- PENDED (MG/L) (80154) 8 1 8 10 3 6 6 3

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.

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- ETHANE 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 UNFLITED REC (µG/L) (77226)
05 SEP	1330	<.37	<.032	<.066	<.044	<5	<.27	<.12	<.19	<.056	<.044
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-METHANETOTAL(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 UNFLTRD RECOVER (µG/L) (50005)	ETHYL- BENZENE TOTAL (µG/L) (34371)	FURAN, TETRA- HYDRO- WATER UNFLIRD RECOVER (µG/L) (81607)	ISO- DURENE WATER UNFLITAD 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 MAY 1999	METHYL ISO- BUTYL KETONE WAT.WH. TOTAL (µG/L) (78133)	META/ PARA- XYLENE WATER UNFLITD 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 UNFLIRD RECOVER (µG/L) (77220)	TOLUENE TOTAL (µG/L) (34010)	TRI- CHLORO- ETHYL- ENE TOTAL (µG/L) (39180)
05 SEP	<.37	<.06	<.042	<.06	<.11	<.23	<.042	<.1	<.1	E.0554	E.0188
16	<.37	<.06	<.042	<.06	<.11	<.23	<.042	<.1	<.1	<.05	<.038

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.

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 (μ G/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 JAN 1999	1550	<.002	<.002	.0066	<.002	<.003	<.003	< .004	<.004	<.002
12 FEB	1500	<.002	<.002	.0116	<.002	E.0070	<.003	<.004	<.004	<.002
03 MAR	1430	<.002	<.002	.0104	<.002	<.003	<.003	< .004	< .004	<.002
03 APR	1410	<.002	<.002	.0083	<.002	<.003	<.003	< .004	<.004	<.002
07 MAY	1410	<.002	<.002	.0083	<.002	<.003	<.003	< .004	<.004	<.002
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 31	1430 0740	<.002 <.002	<.002 <.002	.0079	<.002 <.002	<.003 <.003	<.003 <.003	<.004 <.004	<.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 SENCOR WATER DISSOLV (µG/L) (82630)
DEC 1998	ATRA- ZINE, WATER, DISS, REC (µG/L) (04040)	AZINON, DIS- SOLVED (µG/L) (39572)	ELDRIN DIS- SOLVED (µG/L) (39381)	WATER FLTRD 0.7 μ GF, REC (μG/L) (82668)	DIS- SOLVED (µG/L) (39341)	URON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	THION, DIS- SOLVED (µG/L) (39532)	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686)	LACHLOR WATER DISSOLV (µG/L) (39415)	BUZIN SENCOR WATER DISSOLV (µG/L) (82630)
DEC 1998 09 JAN 1999	ATRA- ZINE, WATER, DISS, REC (µG/L) (04040)	AZINON, DIS- SOLVED (µG/L) (39572)	ELDRIN DIS- SOLVED (µG/L) (39381)	WATER FLTRD 0.7 μ GF, REC (μG/L) (82668)	DIS- SOLVED (µG/L) (39341)	URON WATER FLTRD 0.7 μ GF, REC (μG/L) (82666)	THION, DIS- SOLVED (µG/L) (39532)	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μG/L) (82686)	LACHLOR WATER DISSOLV (µG/L) (39415)	BUZIN SENCOR WATER DISSOLV (µG/L) (82630)
DEC 1998 09 JAN 1999 12 FEB	ATRA- ZINE, WATER, DISS, REC (µG/L) (04040) E.0265	AZINON, DIS- SOLVED (µG/L) (39572) <.002	ELDRIN DIS- SOLVED (µG/L) (39381) <.001	WATER FLTRD 0.7 µ GF, REC (µG/L) (82668) <.002	DIS- SOLVED (µG/L) (39341) <.004	URON WATER FLTRD 0.7 μ GF, REC (μG/L) (82666) <.002	THION, DIS- SOLVED (µG/L) (39532) <.005	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μG/L) (82686) <.001	LACHLOR WATER DISSOLV (µG/L) (39415) <.002	BUZIN SENCOR WATER DISSOLV (µG/L) (82630) <.004
DEC 1998 09 JAN 1999 12 FEB 03 MAR	ATRA- ZINE, WATER, DISS, REC (µG/L) (04040) E.0265 E.0235	AZINON, DIS- SOLVED (μG/L) (39572) <.002 <.002	ELDRIN DIS- SOLVED (µG/L) (39381) <.001 <.001	WATER FLTRD 0.7 µ GF, REC (µG/L) (82668) <.002 <.002	DIS- SOLVED (µG/L) (39341) <.004 <.004	URON WATER FLTRD 0.7 μ GF, REC (μG/L) (82666) <.002 <.002 <.002	THION, DIS- SOLVED (µG/L) (39532) <.005 <.005	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686) <.001 <.001	LACHLOR WATER DISSOLV (µG/L) (39415) <.002 .0155 .0113	BUZIN SENCOR WATER DISSOLV (µG/L) (82630) <.004 <.004
DEC 1998 09 JAN 1999 12 FEB 03	ATRA- ZINE, WATER, DISS, REC (µG/L) (04040) E.0265	AZINON, DIS- SOLVED (µG/L) (39572) <.002	ELDRIN DIS- SOLVED (µG/L) (39381) <.001	WATER FLTRD 0.7 µ GF, REC (µG/L) (82668) <.002	DIS- SOLVED (µG/L) (39341) <.004	URON WATER FLTRD 0.7 μ GF, REC (μG/L) (82666) <.002	THION, DIS- SOLVED (µG/L) (39532) <.005	AZIN- PHOS WAT FLT 0.7 μ GF, REC (μG/L) (82686) <.001	LACHLOR WATER DISSOLV (µG/L) (39415) <.002	BUZIN SENCOR WATER DISSOLV (µG/L) (82630) <.004
DEC 1998 09 JAN 1999 12 FEB 03 MAR 03	ATRA- ZINE, WATER, DISS, REC (µG/L) (04040) E.0265 E.0235	AZINON, DIS- SOLVED (μG/L) (39572) <.002 <.002	ELDRIN DIS- SOLVED (µG/L) (39381) <.001 <.001	WATER FLTRD 0.7 µ GF, REC (µG/L) (82668) <.002 <.002	DIS- SOLVED (µG/L) (39341) <.004 <.004	URON WATER FLTRD 0.7 μ GF, REC (μG/L) (82666) <.002 <.002 <.002	THION, DIS- SOLVED (µG/L) (39532) <.005 <.005	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686) <.001 <.001	LACHLOR WATER DISSOLV (µG/L) (39415) <.002 .0155 .0113	BUZIN SENCOR WATER DISSOLV (µG/L) (82630) <.004 <.004
DEC 1998 09 JAN 1999 12 FEB 03 MAR 07 MAY 05	ATRA- ZINE, WATER, DISS, REC (µG/L) (04040) E.0265 E.0235 E.0180 E.0124	AZINON, DIS- SOLVED (μG/L) (39572) <.002 <.002 <.002	ELDRIN DIS- SOLVED (µG/L) (39381) <.001 <.001 <.001	WATER FLTRD 0.7 µ GF, REC (µG/L) (82668) <.002 <.002 <.002	DIS- SOLVED (µG/L) (39341) <.004 <.004 <.004	URON WATER FLITRD 0.7 µ GF, REC (µG/L) (82666) <.002 <.002 <.002 <.002	THION, DIS- SOLVED (#G/L) (39532) <.005 <.005 <.005 <.005	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686) <.001 <.001 <.001	LACHLOR WATER DISSOLV (µG/L) (39415) <.002 .0155 .0113 .0067	BUZIN SENCOR WATER DISSOLV (µG/L) (82630) <.004 <.004 <.004
DEC 1998 09 JAN 1999 12 FEB 03 MAR 03 APR 07 MAY 05 JUN 02	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.0265 E.0235 E.0180 E.0124 E.0219	AZINON, DIS- SOLVED (μG/L) (39572) <.002 <.002 <.002 <.002 <.002	ELDRIN DIS- SOLVED (µG/L) (39381) <.001 <.001 <.001 <.001 <.001	WATER FLTRD 0.7 µ GF, REC (µG/L) (82668) <.002 <.002 <.002 <.002	DIS- SOLVED (µG/L) (39341) <.004 <.004 <.004 <.004	URON WATER FLITED 0.7 µ GF, REC (µG/L) (82666) <.002 <.002 <.002 <.002 <.002	THION, DIS- SOLVED (µG/L) (39532) <.005 <.005 <.005 <.005 <.005	AZIN-PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686) <.001 <.001 <.001 <.001 <.001	LACHLOR WATER DISSOLV (µG/L) (39415) < .002 .0155 .0113 .0067 .0060	BUZIN SENCOR WATER DISSOLV (µG/L) (82630) <.004 <.004 <.004 <.004
DEC 1998 09 JAN 1999 12 FEB 03 MAR 07 MAY 05 JUN 02 JUL 01	ATRA-ZINE, WATER, DISS, REC (µG/L) (04040) E.0265 E.0235 E.0180 E.0124 E.0219	AZINON, DIS- SOLVED (μG/L) (39572) <.002 <.002 <.002 <.002 <.002 <.002	ELDRIN DIS- SOLVED (µG/L) (39381) <.001 <.001 <.001 <.001 <.001 <.001	WATER FLTRD 0.7 µ GF, REC (µG/L) (82668) < .002 < .002 < .002 < .002 < .002 < .002 < .002	DIS- SOLVED (µG/L) (39341) <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666) <.002 <.002 <.002 <.002 <.002 <.002	THION, DIS- SOLVED (µG/L) (39532) <.005 <.005 <.005 <.005 <.005 <.005	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686) <.001 <.001 <.001 <.001	LACHLOR WATER DISSOLV (µG/L) (39415) <.002 .0155 .0113 .0067 .0060	BUZIN SENCOR WATER DISSOLV (µG/L) (82630) <.004 <.004 <.004 <.004 <.004
DEC 1998 09 JAN 1999 12 FEB 03 MAR 03 APR 07 MAY 05 JUN 02 JUL	ATRA- ZINE, WATER, DISS, REC (µG/L) (04040) E.0265 E.0235 E.0180 E.0124 E.0219 E.0213	AZINON, DIS- SOLVED (μG/L) (39572) <.002 <.002 <.002 <.002 <.002 <.002 <.002	ELDRIN DIS- SOLVED (µG/L) (39381) <.001 <.001 <.001 <.001 <.001 <.001	WATER FLTRD 0.7 µ GF, REC (µG/L) (82668) < .002 < .002 < .002 < .002 < .002 < .002 < .002 < .002 < .002 < .002	DIS- SOLVED (µG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITRD 0.7 µ GF, REC (µG/L) (82666) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	THION, DIS- SOLVED (MG/L) (39532) <.005 <.005 <.005 <.005 <.005 <.005 <.005	AZIN- PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686) <.001 <.001 <.001 <.001 <.001	LACHLOR WATER DISSOLV (µG/L) (39415) <.002 .0155 .0113 .0067 .0060 .0075	BUZIN SENCOR WATER DISSOLV (µG/L) (82630) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES--Continued

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 (μ G/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	. 003	. 006	. 004	. 010	. 002	. 004	0101	. 010	. 007	. 000
03 MAR	<.003	<.006	<.004	<.018	<.003	<.004	.0121	<.010	<.007	<.002
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	. 002	. 006	. 004	. 010	. 002	. 004	1.64	. 010	. 007	. 000
02	<.003	<.006	<.004	<.018	<.003	<.004	.164	<.010	<.007	<.002
JUL 01	<.003	<.006	<.004	<.018	<.003	<.004	.135	<.010	<.007	<.002
AUG	<.003	<.000	<.004	<.U10	<.003	<.004	.133	<.010	<.007	<.002
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

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 (Probosas Worms)	2
Enopla	
Hoplonemertea	
Tetrastemmatidae	
Prostoma	1
Mollusca	1
Gastropoda (Snails)	
Basommatophora	
Ancylidae	
Ferrissia	16
Planorbidae	10
Helisoma	1
	1
Mesogastropoda	
Hydrobiidae <i>Amnicola</i>	1
	1
Pleuroceridae	2
Goniobasis	2
Bivalvia (Clams)	
Veneroida	
Sphaeriidae	1
Annelida (Segmented Worms)	10
Oligochaeta	13
Arthropoda	
Acariformes	40
Hydrachnidia (Water Mites)	43
Crustacea	
Isopoda (Sow Bugs)	
Asellidae	
Caecidotea	1
Insecta	
Ephemeroptera (Mayflies)	
Baetidae	
Baetis	1
Pseudocloeon	2
Ephemerellidae	
Serratella	61
Heptageniidae	
Epeorus	6
Stenonema	76
Isonychiidae	
Isonychia	73
Odonata (Dragonflies and Damselflies)	
Coenagrionidae	
Argia	3
Gomphidae	
Lanthus	1

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

BIOLOGICAL DATA BENTHIC MACROINVERTEBRATES--Continued

Date	11/05/98
Benthic Macroinvertebrate	Count
Plecoptera (Stoneflies)	
Chloroperlidae	
Utaperla	1
Perlidae	1
Acroneuria	5
Agnetina	8
Taeniopterygidae	Ü
Taeniopteryx	2
Trichoptera (Caddisflies)	-
Brachycentridae	
Micrasema	33
Glossosomatidae	
Glossosoma	27
Protoptila	4
Helicopsychidae	·
Helicopsyche	5
Hydropsychidae	3
Cheumatopsyche	207
Hydropsyche	173
Macrostemum	3
Hydroptilidae	3
Leucotrichia	57
Lepidostomatidae	31
Lepidostoma	12
Philopotamidae	12
Chimarra	156
Polycentropodidae	130
Polycentropus	1
Psychomyiidae	-
Psychomyia	2
Uenoidae	-
Neophylax	10
Coleoptera (Beetles)	10
Elmidae (Riffle Beetles)	
Optioservus	39
Oulimnius -	17
Promoresia	2
Stenelmis	4
Hydrophilidae	
Berosus	1
Psephenidae (Water Pennies)	
Ectopria	1
Diptera (True Flies)	
Chironomidae (Midges)	108
Empididae (Dance Flies)	
Hemerodromia	15
Simuliidae (Black Flies)	
Simulium	4
Tipulidae (Crane Flies)	
Antocha	11
Tipula	1
-	
Total count	1,227
Total number of taxa	48

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

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

DAY	MAX	MIN	MEAN	MAX		MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUAR	Y
1							8.5	6.5	7.5	.0	. 0	.0
2							7.5	5.0	6.0	. 0	. 0	. 0
3 4							8.0 10.5	6.0 8.0	7.0 9.0	. 5 . 5	. 0	. 0
5				6.5	3.5	5.0	11.0	9.5	10.0	.5	.0	.0
										_		
6 7				6.0 6.5	3.5 3.5	4.5 5.5	11.0 12.5	9.0 10.0	10.0 11.5	.5 .5	. 0	. 0
8				7.5	6.0	6.5	12.0	10.0	10.5	.0	.0	.0
9				8.5	6.0	7.5	10.0	6.0	8.5	. 0	.0	.0
10				8.0	5.5	6.5	6.0	4.5	5.5	. 0	. 0	. 0
11				10.5	8.0	9.5	5.5	3.5	4.5	.5	. 0	. 0
12				8.5	6.0	7.0	4.5	2.0	3.5	. 5	. 0	.0
13				8.0	6.0	7.0	5.0	3.5	4.5	.5	. 0	. 0
14 15				8.0 9.0	5.5 6.5	6.5 7.5	4.5 3.0	2.0	3.5 2.0	.0	. 0	. 0
16 17				8.0	5.0	6.5	3.5	1.0	2.0 2.5	. 5	. 0	. 0
18				9.5 8.0	7.0 6.0	8.0 7.0	3.5 3.0	2.0 1.0	2.5	.5 1.0	.0	. 0
19				7.0	4.5	6.0	3.5	.5	2.5	1.5	.5	
20				9.0	6.5	8.0	5.5	3.5	4.5	3.0	1.0	2.0
21				8.0	6.0	7.0	7.0	5.0	6.0	3.0	2.0	2.5
22				7.0	5.0	6.0	9.0	3.0	7.0	4.0	3.0	3.5
23				6.0	3.5	5.0	3.0	.5	1.5	6.0	4.0	5.0
24 25				7.5 6.0	5.5 3.5	6.5 5.0	1.0	.0 5	. 5 . 0	8.0 6.0	6.0 3.5	7.0 4.5
23				0.0	3.3	3.0		5	.0	0.0	3.3	4.5
26				7.5	5.0	6.0	. 0	.0	. 0	4.0	2.5	3.0
27				8.0	6.0	7.0	.0	.0	. 0	3.5	1.5	2.5
28 29				7.5 7.5	4.5 4.5	6.0 6.0	.5 1.0	. 0	. 0 . 5	5.5 6.0	3.0 3.0	4.0 4.5
30				8.0	6.0	7.0	1.0	.0	.5	4.0	1.0	2.5
31							.0	.0	.0	3.0	5	1.0
MONTH				10.5	3.5	6.5	12.5	5	4.5	8.0	5	1.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN FEBRUARY		MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	FEBRUARY	. 5		MARCH		10.0	APRIL 8.5	9.0		MAY	
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4	1.0	. 0 . 5 	.5 2.0 	 8.0	MARCH 3.5	 6.0	10.0 12.0 13.5 15.0	8.5 8.5 10.0 11.5	9.0 10.5 11.5 12.5	 	MAY 	
1 2 3	1.0	. 0 . 5 	.5		MARCH 	 	10.0 12.0 13.5	8.5 8.5 10.0	9.0 10.5 11.5		MAY 	
1 2 3 4	1.0	. 0 . 5 	.5 2.0 	 8.0	MARCH 3.5 2.5	 6.0	10.0 12.0 13.5 15.0	8.5 8.5 10.0 11.5	9.0 10.5 11.5 12.5	 	MAY 	
1 2 3 4 5	1.0	. 0 . 5 	.5 2.0	 8.0 5.0 4.0 4.5	MARCH 3.5 2.5 3.0 .5	 6.0 3.5 3.5	10.0 12.0 13.5 15.0 14.5	8.5 8.5 10.0 11.5 10.5	9.0 10.5 11.5 12.5 12.0	 	MAY	
1 2 3 4 5 6 7 8	1.0	. 0 . 5 	.5 2.0	 8.0 5.0 4.0 4.5 2.5	MARCH 3.5 2.5 3.0 .55	 6.0 3.5 3.5 3.5	10.0 12.0 13.5 15.0 14.5	8.5 8.5 10.0 11.5 10.5	9.0 10.5 11.5 12.5 12.0		MAY	
1 2 3 4 5	1.0	. 0 . 5 	.5 2.0	 8.0 5.0 4.0 4.5	MARCH 3.5 2.5 3.0 .5	 6.0 3.5 3.5	10.0 12.0 13.5 15.0 14.5	8.5 8.5 10.0 11.5 10.5	9.0 10.5 11.5 12.5 12.0	 	MAY	
1 2 3 4 5 6 7 8 9	1.0 3.5	. 0 . 5 	.5 2.0	 8.0 5.0 4.0 4.5 2.5 3.5	MARCH 3.5 2.5 3.0 .555	 6.0 3.5 3.5 3.5 3.0 .5	10.0 12.0 13.5 15.0 14.5	8.5 8.5 10.0 11.5 10.5 9.0	9.0 10.5 11.5 12.5 12.0		MAY	
1 2 3 4 5 6 7 8 9 10	1.0	.0 .5	.5 2.0	8.0 5.0 4.0 4.5 2.5 3.5	MARCH 3.5 2.5 3.0 .550 .0	 6.0 3.5 3.5 3.5 3.5 1.0	10.0 12.0 13.5 15.0 14.5	8.5 8.5 10.0 11.5 10.5 9.0	9.0 10.5 11.5 12.5 12.0 11.0	======================================	MAY	
1 2 3 4 5 6 7 8 9 10	1.0 3.5	. 0 . 5 	.5 2.0	 8.0 5.0 4.0 4.5 2.5 3.5	MARCH 3.5 2.5 3.0 .55555	6.0 3.5 3.5 3.0 .5 1.0	10.0 12.0 13.5 15.0 14.5	8.5 8.5 10.0 11.5 10.5 9.0	9.0 10.5 11.5 12.5 12.0		MAY	
1 2 3 4 5 6 7 8 9 10	1.0 3.5	. 0 . 5 	.5 2.0	8.0 5.0 4.0 4.5 2.5 3.5	MARCH 3.5 2.5 3.0 .550 .0	6.0 3.5 3.5 3.0 .5 1.0	10.0 12.0 13.5 15.0 14.5	8.5 8.5 10.0 11.5 10.5	9.0 10.5 11.5 12.5 12.0		MAY	
1 2 3 4 5 6 7 8 9 10	1.0 3.5	. 0 . 5 	.5 2.0	 8.0 5.0 4.0 4.5 2.5 3.5	MARCH 3.5 2.5 3.0 .55555	 6.0 3.5 3.5 3.0 .5 1.0	10.0 12.0 13.5 15.0 14.5	8.5 8.5 10.0 11.5 10.5 9.0	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1.0	.0 .5	.5 2.0	 8.0 5.0 4.0 4.5 2.5 3.5	MARCH 3.5 2.5 3.0 .55550	 6.0 3.5 3.5 3.0 .5 1.0	10.0 12.0 13.5 15.0 14.5 13.5 	8.5 8.5 10.0 11.5 10.5 9.0	9.0 10.5 11.5 12.5 12.0 11.0 	======================================	MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1.0	. 0 . 5 	.5 2.0	 8.0 5.0 4.0 4.5 2.5 2.5 4.5 2.5 4.5	MARCH 3.5 2.5 3.0 .550 0 .005550	 6.0 3.5 3.5 3.0 .5 1.0 1.0 1.5 	10.0 12.0 13.5 15.0 14.5 13.5 	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1.0	. 0 . 5 	.5 2.0	 8.0 5.0 4.0 4.5 2.5 3.5 3.5 4.5 3.5 5.5	MARCH 3.5 2.5 3.0 .55550 .0 1.5 3.5	 6.0 3.5 3.5 3.0 .5 1.0 1.0 1.5 	10.0 12.0 13.5 15.0 14.5 13.5 	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	1.0 3.5 	.0 .5	.5 2.0	8.0 5.0 4.0 4.5 2.5 3.5 3.5 2.5 4.5 	MARCH 3.5 2.5 3.0 .550 .05555555555	1.0 1.5 3.5 3.5 3.5 3.5 3.5 3.5 1.0	10.0 12.0 13.5 15.0 14.5 13.5 	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1.0	. 0 . 5 	.5 2.0	 8.0 5.0 4.0 4.5 2.5 3.5 3.5 4.5 3.5 5.5	MARCH 3.5 2.5 3.0 .55550 .0 1.5 3.5	 6.0 3.5 3.5 3.0 .5 1.0 1.0 1.5 	10.0 12.0 13.5 15.0 14.5 13.5 	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1.0 3.5	.0 .5	.5 2.0	8.0 5.0 4.0 4.5 2.5 3.5 3.5 4.5 3.5 5.5,5 7.0 7.5	MARCH 3.5 2.5 3.0 .5550 .0 1.5 3.5 4.0 3.5 3.5	1.0 1.0 1.5 3.5 3.5 3.5 3.5 3.5 5.5 5.5 5.5	10.0 12.0 13.5 15.0 14.5 13.5 	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	1.0 3.5	.0 .5	.5 2.0	3.5 4.0 4.5 2.5 3.5 3.5 4.5 2.5 4.5 7.5 7.5 7.5	MARCH 3.5 2.5 3.0 .550 0550 1.5 3.5 4.0 3.5 3.5 3.5	1.0 1.0 1.5 3.5 5.5 5.5 5.5 5.5 5.5 5.5	10.0 12.0 13.5 15.0 14.5 13.5	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1.0 3.5	.0 .5	.5 2.0	8.0 5.0 4.0 4.5 2.5 3.5 3.5 4.5 3.5 5.5,5 7.0 7.5	MARCH 3.5 2.5 3.0 .5550 .0 1.5 3.5 4.0 3.5 3.5	1.0 1.0 1.5 3.5 3.5 3.5 3.5 3.5 5.5 5.5 5.5	10.0 12.0 13.5 15.0 14.5 13.5 	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	1.0 3.5	. 0 . 5	.5 2.0	 8.0 5.0 4.0 4.5 2.5 3.5 3.5 4.5 3.5 7.5 7.5 7.5 7.5 7.5	MARCH 3.5 2.5 3.0 .550 .0 .0550 1.5 3.5 4.0 3.5 4.0 3.5 3.5 3.0 2.0	1.0 1.0 1.5 3.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	10.0 12.0 13.5 15.0 14.5	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	1.0 3.5	. 0 . 5	.5 2.0	3.5 3.5 4.5 2.5 4.5 3.5 4.5 7.5 7.5 7.5 7.5 7.5	MARCH 3.5 2.5 3.0 .550 .0 .0550 1.5 3.5 4.0 3.5 4.0 3.5 3.0 2.0 4.0	1.0 1.0 1.5 3.5 5.5 5.5 5.5 5.5 5.5	10.0 12.0 13.5 15.0 14.5 13.5	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	1.0 3.5 	.0 .5	.5 2.0	3.5 4.5 4.5 4.5 7.5 7.5 7.5 7.5 4.5 3.5	MARCH 3.5 2.5 3.0 .550 .0550 1.5 3.5 4.0 3.5 4.0 3.5 3.0 2.0 4.0	1.0 1.0 1.5 3.5 5.5 5.5 5.5 5.5 5.5	10.0 12.0 13.5 15.0 14.5 13.5	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	1.0 3.5	. 0 . 5	.5 2.0	3.5 3.5 3.5 4.5 2.5 4.5 2.5 4.5 7.5 7.0 6.0 6.0 6.0	MARCH 3.5 2.5 3.0 .550 .0 .05550 1.5 3.5 4.0 3.5 3.5 3.0 2.0 4.0 4.0 3.5 5.0	1.0 1.0 1.0 1.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	10.0 12.0 13.5 15.0 14.5 13.5	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	1.0 3.5	.0 .5	.5 2.0 	3.5 4.5 4.5 4.5 4.5 7.5 7.5 7.0 7.5 7.0 6.0 10.0	MARCH 3.5 2.5 3.0 .5550 .0555 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.0 2.0 4.0 4.0 3.5 5.0 5.0	1.0 1.0 1.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	10.0 12.0 13.5 15.0 14.5 13.5	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 20 20 20 20 20 20 20 20 20 20 20 20 20	1.0 3.5	. 0 . 5	.5 2.0	3.5 4.5 4.5 3.5 3.5 4.5 4.5 7.5 7.5 4.5 3.5 7.5 7.0 6.0 6.0 6.0 6.0 6.0 6.0	MARCH 3.5 2.5 3.0 .550 .0550 1.5 3.5 4.0 3.5 3.5 4.0 3.5 3.5 4.0 3.5 5.0 6.0	1.0 1.0 1.5 5.5 5.5 5.5 5.5 5.5 5.5 5.0 8.0	10.0 12.0 13.5 15.0 14.5 13.5	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	1.0 3.5	.0 .5	.5 2.0 	3.5 4.5 4.5 4.5 4.5 7.5 7.5 7.0 7.5 7.0 6.0 10.0	MARCH 3.5 2.5 3.0 .5550 .0555 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.0 2.0 4.0 4.0 3.5 5.0 5.0	1.0 1.0 1.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	10.0 12.0 13.5 15.0 14.5 13.5	8.5 8.5 10.0 11.5 10.5 9.0 	9.0 10.5 11.5 12.5 12.0 11.0 		MAY	

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