LEHIGH RIVER BASIN

01454700 LEHIGH RIVER AT GLENDON, PA
(National Water-Quality Assessment Station)

LOCATION.--Lat 40°40'09", long 75`°14'12", Northampton County, Hydrologic Unit 02040106, on right bank 140 ft upstream from highway bridge in Hugh Moore Parkway at Glendon, 2.3 mi upstream from mouth, and 2.0 mi southwest of Easton.

DRAINAGE AREA.--1,359 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS.--WDR PA-72-1: 1971(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 164.30 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Francis E. Walter Reservoir (station 01447780), Penn Forest Reservoir (station 01449400), Wild Creek Reservoir (station 01449700), and since February 1971, by Beltzville Lake (station 01449790) about 60 mi upstream. Flows above 10,000 ft^3/s may be affected by backwater from the Delaware River. Several measurements of water temperature were made during the year. Satellite telemetry at station.

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	577	829	872	608	3890	2760	2970	1710	1070	733	483	456
2	628	826	859	583	4910	2920	2800	1670	1060	697	488	468
3	734	815	849	2500	6250	2660	2670	1580	1130	696	481	534
4	823	784	852	2270	6020	3180	2680	1580	1100	714	486	547
5	803	758	858	1250	5500	4450	2590	1600	1050	695	516	584
6	729	734	751	1030	4320	4160	2510	1530	991	679	535	636
7	670	709	709	1140	4010	3880	2350	1500	949	683	510	686
8	1960	667	722	1100	3930	3310	2160	1730	964	695	554	982
9	2380	658	795	2080	3550	2760	2140	1760	906	670	570	670
10	3730	631	785	3910	3090	2590	2890	1590	875	647	565	939
11	3310	827	753	2180	2880	2570	3010	1570	858	643	573	592
12	2370	992	752	2040	2870	2530	3180	1430	824	602	578	505
13	1780	902	696	2070	3470	2370	2710	1310	955	655	584	483
14	1680	846	689	1890	3300	2290	2330	1240	1060	808	1500	478
15	1850	759	706	1750	3200	2490	2190	1190	985	794	1010	852
16	1570	734	667	2020	3120	2430	2320	1270	912	686	866	9730
17	1490	728	678	1840	2820	2350	2510	1130	841	626	600	18900
18	1570	721	656	5490	3130	2390	2250	1090	938	608	509	6000
19	1210	736	665	11600	3170	2540	2160	1680	964	628	478	3430
20	1090	723	645	7010	2850	2500	2410	1870	830	608	496	2200
21	1030	744	610	5590	2700	2620	2420	1610	810	580	492	1970
22	968	719	588	5270	2530	6320	2280	1500	807	579	498	2130
23	952	685	653	5640	2290	6430	2380	1910	783	643	487	2100
24	969	685	670	11800	2190	5970	2630	2300	754	571	472	1820
25	923	642	634	13100	2080	5220	2390	2230	737	519	462	2290
26	908	1020	565	13000	2150	4500	2330	1920	739	512	1260	2530
27	894	1250	548	11000	1990	3880	2290	1710	889	493	739	2050
28	894	989	636	8460	2080	3760	2110	1540	890	500	586	1730
29	923	935	704	6590	---	3580	1930	1490	770	545	506	1710
30	898	903	746	4910	---	3330	1780	1460	754	526	462	4090
31	873	---	540	4280	---	3200	---	1110	---	486	466	---
TOTAL	41186	23951	21853	144001	94290	105940	73370	48810	27195	19521	18812	72092
MEAN	1329	798	705	4645	3368	3417	2446	1575	906	630	607	2403
MAX	3730	1250	872	13100	6250	6430	3180	2300	1130	808	1500	18900
MIN	577	631	540	583	1990	2290	1780	1090	737	486	462	456

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1999, BY WATER YEAR (WY)

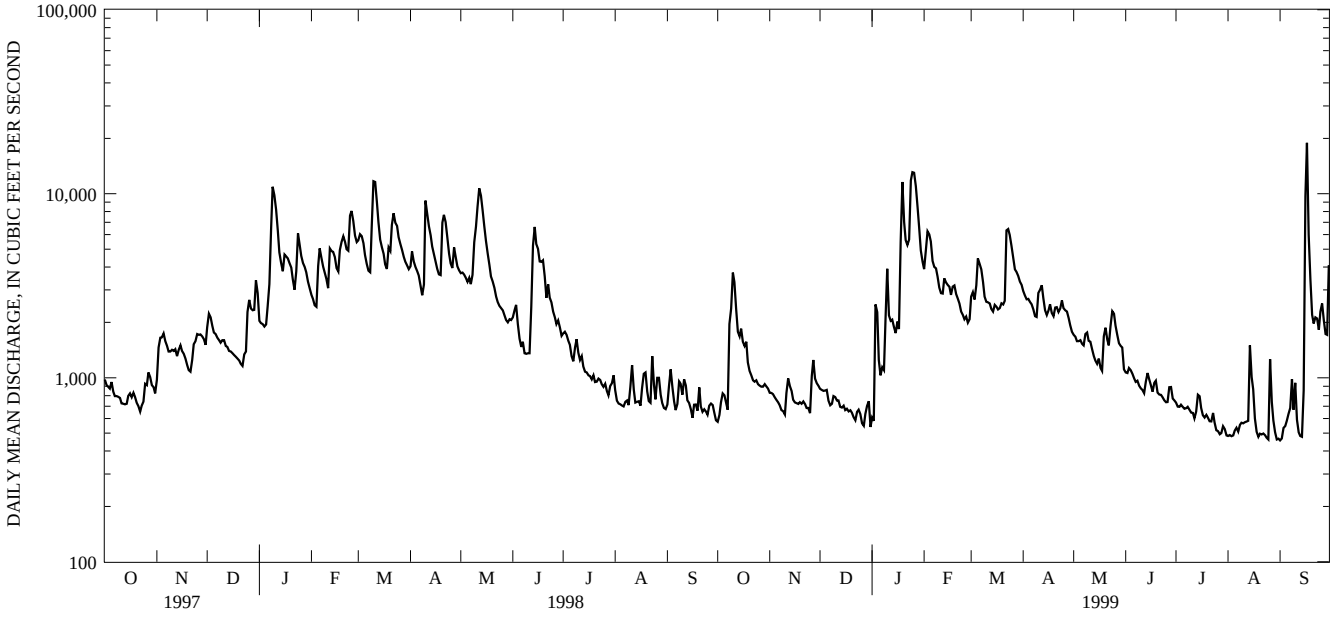
MEAN	1963	2723	3447	3173	3301	4306	4494	3441	2506	1856	1466	1690
MAX	5272	5438	9593	8414	5385	8344	10810	8542	7607	4641	4179	7920
(WY)	1977	1971	1997	1996	1976	1977	1993	1989	1972	1984	1969	1987
MIN	771	798	633	405	1278	1805	1639	1502	906	630	607	660
(WY)	1981	1999	1981	1981	1980	1981	1985	1995	1999	1999	1999	1983

LEHIGH RIVER BASIN

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1967 - 1999	
ANNUAL TOTAL	980147		691021			
ANNUAL MEAN	2685		1893		2861	
HIGHEST ANNUAL MEAN					3997	1984
LOWEST ANNUAL MEAN					1594	1985
HIGHEST DAILY MEAN	11700	Mar 10	18900	Sep 17	44300	Jun 23 1972
LOWEST DAILY MEAN	540	Dec 31	456	Sep 1	330	Jan 31 1981**a**
ANNUAL SEVEN-DAY MINIMUM	610	Dec 21	484	Aug 19	349	Jan 26 1981
INSTANTANEOUS PEAK FLOW			26200	Sep 17	**b**60600	Jun 23 1972
INSTANTANEOUS PEAK STAGE			17.25	Sep 17	24.86	Jun 23 1972
10 PERCENT EXCEEDS	5830		3810		5680	
50 PERCENT EXCEEDS	1710		1060		2080	
90 PERCENT EXCEEDS	693		565		863	

a Also Feb. 1, 1981.
b From rating curve extended above 36,000 ft^3/s.



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

LEHIGH RIVER BASIN

01454700 LEHIGH RIVER AT GLENDON, PA--Continued
(National Water-Quality Assessment Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1998 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1998 to April 1999.

INSTRUMENTATION.-- Water-temperature data logger (in situ system; measurements recorded every 15 or 30 minutes) located 10 ft upstream from bridge.

REMARKS.--These 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.

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-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										
18...	1015	ENVIRONMENTAL	710	768	112	12.9	8.0	371	6.5	9.5
DEC										
10...	1425	ENVIRONMENTAL	792	764	101	12.0	8.0	328	8.0	8.0
JAN 1999										
13...	1020	ENVIRONMENTAL	2060	755	104	14.2	7.7	295	4.5	2.0
FEB										
02...	0945	ENVIRONMENTAL	3720	756	100	13.3	7.4	184	7.5	3.0
MAR										
02...	0950	ENVIRONMENTAL	2990	751	103	13.1	7.7	241	4.5	4.5
APR										
06...	0900	ENVIRONMENTAL	2450	764	104	11.6	7.8	211	15.0	11.0
MAY										
04...	0920	ENVIRONMENTAL	1550	757	103	10.5	7.5	263	12.5	14.5
JUN										
01...	1030	ENVIRONMENTAL	1060	756	110	9.4	8.1	293	28.5	22.5
30...	*1029*	*FIELD BLANK*	--	--	--	--	--	--	--	--
30...	1030	ENVIRONMENTAL	734	757	--	--	7.9	340	21.5	--
AUG										
03...	1620	ENVIRONMENTAL	471	758	--	--	8.6	408	30.0	--
SEP										
02...	1430	ENVIRONMENTAL	452	757	--	--	8.3	467	27.0	22.0
17...	1240	ENVIRONMENTAL	19300	762	--	--	7.3	--	--	15.5

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											
18...	120	28	12	3.2	23	82	--	--	--	31	<.1
DEC											
10...	110	26	11	3.0	21	77	--	--	--	29	<.1
JAN 1999											
13...	76	19	6.9	2.2	27	43	43	52	--	43	<.1
FEB											
02...	55	14	5.2	1.5	11	32	33	40	--	18	<.1
MAR											
02...	69	17	6.3	1.8	13	43	40	48	--	20	<.1
APR											
06...	65	16	6.2	1.7	12	--	40	49	--	20	<.1
MAY											
04...	87	21	8.4	2.0	14	--	56	68	--	21	<.1
JUN											
01...	97	24	9.2	2.3	16	--	63	77	--	24	<.1
30...	--	--	--	--	--	--	--	--	--	--	--
30...	110	26	11	3.0	22	--	75	92	--	30	.1
AUG											
03...	130	31	13	3.4	27	--	95	109	4	36	.1
SEP											
02...	150	35	15	4.1	30	--	106	129	--	42	.1
17...	51	14	3.8	2.7	5.9	--	22	27	--	9.3	<.1

LEHIGH RIVER BASIN

01454700 LEHIGH RIVER AT GLENDON, 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, 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											
18...	4.7	40	.17	.4	.5	3.8	3.4	4.0	.04	.32	.32
DEC											
10...	4.9	38	.08	.3	.3	3.3	3.0	3.3	.06	.34	.29
JAN 1999											
13...	5.9	25	.22	.4	.5	2.5	2.0	2.5	.04	.17	.14
FEB											
02...	5.2	22	.12	.2	1.0	1.6	1.3	2.3	.01	.086	.08
MAR											
02...	5.3	24	.18	.3	.3	2.1	1.8	2.1	.03	.11	.09
APR											
06...	4.2	23	.14	.3	.4	1.8	1.5	1.9	.02	.13	.11
MAY											
04...	4.3	26	.16	.4	.4	2.2	1.8	2.3	.03	.17	.15
JUN											
01...	5.8	30	.08	.3	.4	2.3	2.0	2.4	.02	.17	.16
30...	--	--	--	--	--	--	--	--	--	--	--
30...	5.6	33	.12	.4	.4	2.8	2.4	2.9	.04	.41	.31
AUG											
03...	4.0	40	<.02	.2	--	2.7	2.5	--	.02	.42	.35
SEP											
02...	4.7	47	.09	--	.5	--	3.4	3.9	.05	--	.49
17...	5.4	19	.04	.3	.9	3.4	3.1	4.0	.01	.044	.03

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											
18...	.39	218	207	--	54.3	33	32	2.2	.3	6.3	3
DEC											
10...	.36	204	192	2	38.1	24	24	2.2	.2	5.3	2
JAN 1999											
13...	.19	173	164	6	E12.4	27	32	2.3	.3	17	3
FEB											
02...	.11	110	102	7	19.1	30	72	2.2	.3	60	6
MAR											
02...	.14	127	120	6	E14.6	20	46	1.9	.5	40	5
APR											
06...	.15	123	115	2	18.2	22	40	1.9	.3	16	2
MAY											
04...	.19	152	140	2	22.9	37	32	2.1	.4	11	3
JUN											
01...	.19	181	158	2	27.6	36	43	2.4	.4	8.6	3
30...	--	--	--	--	--	--	--	*<.1*	*<.2*	--	--
30...	.39	194	188	--	41.1	27	6	2.6	.4	29	14
AUG											
03...	--	233	224	--	49.8	17	4	2.5	.3	20	16
SEP											
02...	.56	260	259	--	52.7	16	23	2.7	.3	5.7	5
17...	.21	100	88	--	19.1	61	80	6.5	1.7	8090	155

LEHIGH RIVER BASIN

01454700 LEHIGH RIVER AT GLENDON, 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	SAMPLE TYPE	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)
APR 1999											
06...	0900	ENVIRONMENTAL	<.37	E.0348	<.066	<.044	<5	<.27	<.12	<.19	E.0252
MAY											
04...	0920	ENVIRONMENTAL	<.37	E.0254	<.066	<.044	E1.71	<.27	<.12	<.19	E.00897
JUN											
01...	1030	ENVIRONMENTAL	<.37	E.0360	E.0101	E.0110	E3.10	<.27	<.12	<.19	E.0540
30...	*1027*	*SOURCE SOLUTION BLANK*	*<.37*	*<.032*	*<.066*	*<.044*	*<5*	*<.27*	*<.12*	*<.19*	*<.056*
30...	*1028*	*CANNISTER BLANK*	*<.37*	*<.032*	*<.066*	*<.044*	*<5*	*<.27*	*<.12*	*<.19*	*<.056*
30...	*1029*	*FIELD BLANK*	*<.37*	*<.032*	*<.066*	*<.044*	*<5*	*<.27*	*<.12*	*<.19*	*<.056*
30...	1030	ENVIRONMENTAL	<.37	E.0368	<.066	E.00834	E1.76	<.27	<.12	<.19	E.0106
AUG											
03...	1620	ENVIRONMENTAL	<.37	E.0685	E.0169	E.0222	<5	<.27	<.12	<.19	<.056
SEP											
17...	1240	ENVIRONMENTAL	<.37	<.032	<.066	<.044	<5	<.27	<.12	<.19	<.056

DATE	BENZENE 135-TRI METHYL WATER UNFLTRD REC (µG/L) (77226)	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)
APR 1999												
06...	<.044	<.054	<.05	<.032	<.19	<.042	<.048	E.0205	<.1	<.028	<.18	.102
MAY												
04...	<.044	<.054	E.00382	<.032	<.19	<.042	<.048	E.00386	<.1	<.028	<.18	.145
JUN												
01...	<.044	<.054	<.05	<.032	<.19	E.0117	<.048	E.0395	E.0368	<.028	<.18	.256
30...	*<.044*	*<.054*	*<.05*	*<.032*	*<.19*	*<.042*	*<.048*	*<.1*	*<.1*	*<.028*	*<.18*	*<.052*
30...	*<.044*	*<.054*	*<.05*	*<.032*	*<.19*	*<.042*	*<.048*	*<.1*	*<.1*	*<.028*	*<.18*	*<.052*
30...	*<.044*	*<.054*	*<.05*	*<.032*	*<.19*	*<.042*	*<.048*	*<.1*	*<.1*	*<.028*	*<.18*	*<.052*
30...	E.00331	<.054	<.05	<.032	<.19	<.042	<.048	E.0161	E.0526	<.028	<.18	.228
AUG												
03...	<.044	<.054	<.05	<.032	<.19	<.042	<.048	E.0238	E.0531	<.028	<.18	.417
SEP												
17...	<.044	<.054	<.05	<.032	<.19	<.042	<.048	.141	<.1	<.028	<.18	.105

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 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)
APR 1999											
06...	.170	<.048	<.17	<.11	E.0159	<9	<.2	E.0696	<.25	E.0137	<1.6
MAY											
04...	.133	E.0197	<.17	<.11	<.03	<9	<.2	E.0393	<.25	<.38	<1.6
JUN											
01...	.199	E.0553	<.17	<.11	E.0325	<9	<.2	.329	E.0465	<.38	<1.6
30...	*<.038*	*<.048*	*<.17*	*<.11*	*<.03*	*<9*	*<.2*	*<.17*	*<.25*	*<.38*	*<1.6*
30...	*<.038*	*<.048*	*<.17*	*<.11*	*<.03*	*<9*	*<.2*	*<.17*	*<.25*	*<.38*	*<1.6*
30...	*<.038*	*<.048*	*<.17*	*<.11*	*<.03*	*<9*	*<.2*	*<.17*	*<.25*	*<.38*	*<1.6*
30...	.237	E.0393	<.17	<.11	E.00811	<9	<.2	.205	<.25	<.38	<1.6
AUG											
03...	.439	E.0897	<.17	<.11	<.03	<9	<.2	.451	E.0557	<.38	<1.6
SEP											
17...	E.0644	<.048	<.17	<.11	<.03	<9	<.2	<.17	<.25	<.38	<1.6

LEHIGH RIVER BASIN

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES--Continued

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

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)
APR 1999											
06...	<.37	<.06	E.0247	E.0218	<.11	<.23	<.042	E.0495	<.1	E.0904	.283
MAY											
04...	<.37	<.06	E.0188	<.06	<.11	<.23	<.042	E.0463	<.1	.111	.211
JUN											
01...	<.37	E.128	<.042	E.0654	<.11	<.23	<.042	<.1	E.0192	.239	.274
30...	*<.37*	*<.06*	*<.042*	*<.06*	*<.11*	*<.23*	*<.042*	*<.1*	*<.1*	*E.00812*	*<.038*
30...	*<.37*	*<.06*	*<.042*	*<.06*	*<.11*	*<.23*	*<.042*	*<.1*	*<.1*	*E.00593*	*<.038*
30...	*<.37*	*<.06*	*<.042*	*<.06*	*<.11*	*<.23*	*<.042*	*<.1*	*<.1*	*E.00588*	*<.038*
30...	<.37	E.0259	<.042	E.0142	<.11	<.23	<.042	E.0516	<.1	E.0552	.331
AUG											
03...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	E.0784	<.1	E.0834	.573
SEP											
17...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	<.1	<.1	<.05	E.0815

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	SAMPLE TYPE	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)
JAN 1999										
13...	1020	ENVIRONMENTAL	<.002	<.002	.0260	<.002	E.0041	<.003	<.004	<.004
FEB										
02...	0945	ENVIRONMENTAL	<.002	<.002	.0207	<.002	<.003	<.003	<.004	<.004
MAR										
02...	0950	ENVIRONMENTAL	<.002	<.002	.0244	<.002	<.003	<.003	<.004	<.004
APR										
06...	0900	ENVIRONMENTAL	<.002	<.002	.0240	<.002	<.003	<.003	<.004	<.004
MAY										
04...	0920	ENVIRONMENTAL	.0050	<.002	.0338	<.002	<.003	<.003	<.004	<.004
JUN										
01...	1030	ENVIRONMENTAL	<.002	<.002	.0529	<.002	E.0077	<.003	<.004	<.004
30...	1030	ENVIRONMENTAL	<.002	<.002	.0513	<.002	E.0046	<.003	<.004	<.004
30...	*1031*	*SPLIT REPLICATE*	*<.002*	*<.002*	*.0470*	*<.002*	*E.0058*	*<.003*	*<.004*	*<.004*
AUG										
03...	1620	ENVIRONMENTAL	<.002	<.002	.0536	<.002	E.0030	<.040	<.004	<.004
SEP										
02...	1430	ENVIRONMENTAL	<.002	<.002	.0599	<.002	<.003	<.003	<.004	<.004
17...	1240	ENVIRONMENTAL	<.002	<.002	.0324	<.002	E.0466	<.003	<.004	<.02

LEHIGH RIVER BASIN

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES

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

DATE	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)	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)
JAN 1999											
13...	<.002	E.0293	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0157	<.004
FEB											
02...	<.002	E.0235	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0108	<.004
MAR											
02...	<.002	E.0210	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0122	<.004
APR											
06...	<.002	E.0254	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0077	<.004
MAY											
04...	<.002	E.0438	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0109	<.004
JUN											
01...	<.002	E.0306	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0160	<.004
30...	<.002	E.0630	.0060	<.001	<.002	<.004	<.002	<.005	<.001	.0083	<.004
30...	*<.002*	*E.0660*	*<.002*	*<.001*	*<.002*	*<.004*	*<.002*	*<.005*	*<.001*	*.0106*	*<.004*
AUG											
03...	<.002	E.0505	.0130	<.001	<.002	<.004	<.002	<.005	<.001	.0094	<.004
SEP											
02...	<.002	E.0606	<.002	<.001	<.002	<.004	<.002	<.005	<.001	.0094	<.004
17...	<.002	E.0272	<.02	<.001	<.002	<.004	<.002	<.005	<.001	.126	<.004

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)
JAN 1999										
13...	<.003	<.006	<.004	E.0036	<.003	<.004	.0103	<.010	<.007	<.002
FEB										
02...	<.003	<.006	<.004	<.018	<.003	<.004	.0101	<.010	<.007	<.002
MAR										
02...	<.003	<.006	<.004	<.018	<.003	<.004	.0075	<.010	<.007	<.002
APR										
06...	<.003	<.006	<.004	<.018	<.003	<.004	.0148	<.010	<.007	<.002
MAY										
04...	<.003	<.006	<.004	<.018	<.003	<.004	.0134	<.010	<.007	<.002
JUN										
01...	<.003	<.006	<.004	E.0116	<.003	<.004	.0138	<.010	<.007	<.002
30...	<.003	<.006	<.004	E.0153	<.003	<.004	.0137	<.010	<.007	<.002
30...	*<.003*	*<.006*	*<.004*	*E.0116*	*<.003*	*<.004*	*.0186*	*<.010*	*<.007*	*<.002*
AUG										
03...	<.003	<.006	<.004	E.0149	<.003	<.004	.0134	<.010	<.007	<.002
SEP										
02...	<.003	<.006	<.004	.0229	<.003	<.004	.0160	<.010	<.007	<.002
17...	<.003	<.006	<.004	<.018	<.003	<.004	.0616	<.010	<.007	<.002

LEHIGH RIVER BASIN

01454700 LEHIGH RIVER AT GLENDON, 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
		OCTOBER			**NOVEMBER**			**DECEMBER**			**JANUARY**	
1	---	---	---	11.0	10.0	10.5	9.0	8.0	8.5	1.0	.5	.5
2	---	---	---	11.0	10.0	10.5	9.0	7.5	8.0	.5	.0	.0
3	---	---	---	10.0	9.0	9.5	9.0	7.5	8.5	1.5	.0	.5
4	---	---	---	10.0	8.5	9.0	10.0	8.5	9.0	1.5	.0	.5
5	---	---	---	9.0	8.0	8.5	10.5	9.5	10.0	.0	-.5	-.5
6	---	---	---	8.0	7.5	7.5	11.0	10.0	10.5	.5	-.5	-.5
7	---	---	---	8.0	7.0	7.5	11.5	10.5	11.0	.5	.0	.5
8	---	---	---	8.0	7.0	7.5	11.0	10.5	11.0	.5	.5	.5
9	---	---	---	8.5	8.0	8.0	10.5	9.5	10.0	1.5	.5	.5
10	---	---	---	8.0	8.0	8.0	9.5	7.5	8.5	1.0	-.5	.0
11	---	---	---	10.0	8.0	9.0	7.5	6.0	7.0	.5	-.5	.0
12	---	---	---	10.0	8.5	9.5	6.5	6.0	6.0	1.0	.0	.0
13	---	---	---	9.0	8.0	8.5	6.0	5.5	5.5	---	---	---
14	---	---	---	9.0	8.0	8.5	6.0	5.0	5.5	---	---	---
15	---	---	---	9.5	8.0	9.0	5.5	4.0	5.0	---	---	---
16	---	---	---	9.5	8.5	9.0	4.5	4.0	4.5	---	---	---
17	---	---	---	9.0	8.5	9.0	5.5	4.5	5.0	---	---	---
18	---	---	---	9.5	8.0	8.5	5.5	4.0	5.0	---	---	---
19	---	---	---	8.5	8.0	8.0	4.5	4.0	4.5	---	---	---
20	---	---	---	9.0	8.0	8.5	5.5	4.5	5.0	---	---	---
21	---	---	---	9.0	8.0	8.5	6.0	5.5	6.0	---	---	---
22	---	---	---	8.5	7.5	8.0	7.0	6.0	7.0	---	---	---
23	---	---	---	8.0	7.0	7.5	6.0	4.0	5.5	---	---	---
24	---	---	---	8.5	7.0	7.5	4.0	3.5	3.5	---	---	---
25	---	---	---	8.0	7.5	7.5	3.5	2.5	3.0	---	---	---
26	---	---	---	8.0	7.5	7.5	2.5	2.0	2.0	---	---	---
27	---	---	---	8.0	7.0	8.0	2.0	1.0	1.5	---	---	---
28	---	---	---	7.0	6.5	7.0	3.0	1.5	2.0	---	---	---
29	13.0	12.0	12.5	8.0	7.0	7.5	3.5	3.0	3.0	---	---	---
30	12.0	11.0	11.5	8.5	7.0	8.0	3.5	2.5	3.0	---	---	---
31	11.5	10.0	11.0	---	---	---	2.5	1.0	2.0	---	---	---
MONTH	---	---	---	11.0	6.5	8.5	11.5	1.0	6.0	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			**MARCH**			**APRIL**			**MAY**	
1	---	---	---	5.0	5.0	5.0	10.0	10.0	10.0	---	---	---
2	---	---	---	5.0	3.5	4.5	10.5	9.5	10.0	---	---	---
3	---	---	---	6.0	4.5	5.0	12.0	10.0	11.0	---	---	---
4	---	---	---	6.0	6.0	6.0	12.0	11.5	11.5	---	---	---
5	---	---	---	6.0	3.5	4.5	12.0	10.5	11.5	---	---	---
6	---	---	---	3.5	3.5	3.5	---	---	---	---	---	---
7	---	---	---	3.5	2.5	3.0	---	---	---	---	---	---
8	---	---	---	2.5	1.5	2.0	---	---	---	---	---	---
9	---	---	---	2.0	1.0	2.0	---	---	---	---	---	---
10	---	---	---	3.5	2.0	2.5	---	---	---	---	---	---
11	---	---	---	3.5	2.5	3.0	---	---	---	---	---	---
12	---	---	---	3.5	3.0	3.0	---	---	---	---	---	---
13	---	---	---	3.5	2.0	3.0	---	---	---	---	---	---
14	---	---	---	3.5	3.5	3.5	---	---	---	---	---	---
15	---	---	---	3.5	3.0	3.5	---	---	---	---	---	---
16	---	---	---	5.0	3.5	4.0	---	---	---	---	---	---
17	---	---	---	7.0	4.0	5.5	---	---	---	---	---	---
18	---	---	---	8.0	6.5	7.5	---	---	---	---	---	---
19	---	---	---	8.5	7.5	8.0	---	---	---	---	---	---
20	---	---	---	8.0	7.0	7.5	---	---	---	---	---	---
21	---	---	---	8.0	6.0	7.0	---	---	---	---	---	---
22	---	---	---	6.0	5.0	5.5	---	---	---	---	---	---
23	---	---	---	5.5	4.5	5.0	---	---	---	---	---	---
24	1.0	-1.0	.0	6.0	5.5	6.0	---	---	---	---	---	---
25	3.0	1.0	2.5	7.5	6.0	6.5	---	---	---	---	---	---
26	3.5	2.5	3.0	7.5	6.0	7.0	---	---	---	---	---	---
27	4.5	3.5	4.0	8.0	6.0	7.0	---	---	---	---	---	---
28	5.0	4.5	4.5	8.0	7.5	7.5	---	---	---	---	---	---
29	---	---	---	9.5	7.0	8.0	---	---	---	---	---	---
30	---	---	---	10.0	8.5	9.5	---	---	---	---	---	---
31	---	---	---	10.5	9.0	10.0	---	---	---	---	---	---
MONTH	---	---	---	10.5	1.0	5.5	---	---	---	---	---	---