

ALLEGHENY RIVER BASIN

03049625 ALLEGHENY RIVER AT NEW KENSINGTON, PA
(National Water-Quality Assessment Station)

LOCATION.--Lat 40°33'52", long 79°46'22", Allegheny County, Hydrologic Unit 05010009, at New Kensington highway bridge, 5.1 mi downstream from dam at Lock 4 at Natrona, 5.3 mi downstream from gaging station at Natrona, and at mile 19.0 upstream from mouth.

DRAINAGE AREA.--11,500 mi².

PERIOD OF RECORD.--July 1972 to December 1973, October 1974 to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURE: October 1974 to September 1981 and October 1996 to September 1998.

SUSPENDED SEDIMENT DISCHARGES: October 1976 to September 1979.

INSTRUMENTATION.--From October 1974 to September 1981, specific conductance and water temperature were once daily readings by an observer. From October 1976 to September 1979, suspended-sediment samples were collected daily and more often during storm events by an observer. From October 1996 to September 1998, daily records of water temperature were measured and collected at hourly intervals with an in-situ probe and electronic data logger.

REMARKS.--Records of discharge are given for 03049500 Allegheny River at Natrona, Pa. All water-quality samples were collected and analyzed by the U.S. Geological Survey. An explanation of selected abbreviations used in the water-quality tables are given on pages XXX-XXX. Throughout the period of record, samples for this site have been collected at both the New Kensington highway bridge and the Hulton bridge in Oakmont (6.0 mi. downstream of the New Kensington highway bridge) due to factors such as bridge construction, highway detours, ice cover, etc. From April 1996 to September 2000, all samples have been collected at the Hulton bridge in Oakmont because this location is downstream of Deer Creek. Deer Creek near Dorseyville, Pa., was an intensive fixed site for the NAWQA study unit.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 440 micromhos, February 20, 1980; minimum 120 micromhos, March 11, 1979.

WATER TEMPERATURE: Maximum, 30.0°C, August 1, 2, 1975; minimum, 0.0°C, on many days during winter period.

SEDIMENT CONCENTRATIONS: Maximum daily, 805 mg/L, January 2, 1979; minimum daily, 1 mg/L, August 4, 5, 1979.

SEDIMENT DISCHARGES: Maximum daily, 192,000 tons, January 2, 1979; minimum daily, 22 tons, August 5, 1979.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
OCT										
26...	1100	4810	742	9.5	7.5	386	13.5	120	33.6	9.28
NOV										
18...	1020	5290	746	11.4	7.4	278	8.0	92	26.0	6.60
DEC										
09...	1045	17200	750	11.8	7.7	237	6.5	110	31.9	8.24
JAN										
19...	1130	8200	741	14.7	7.3	208	1.0	62	17.5	4.54
FEB										
23...	1030	24200	750	13.2	7.1	284	4.0	77	21.0	5.88
MAR										
31...	1045	13000	746	11.4	8.0	264	11.5	88	23.9	6.91
APR										
27...	1130	34300	741	10.8	7.4	196	12.0	62	16.9	4.84
MAY										
25...	1130	36200	733	9.0	7.0	193	16.0	64	17.9	4.72
JUN										
30...	1015	14200	741	8.7	7.8	220	23.5	68	18.7	5.08
JUL										
25...	1215	6370	745	7.8	7.9	374	26.0	120	32.3	9.43
AUG										
29...	1200	4270	743	8.1	7.7	312	25.5	97	26.8	7.40
SEP										
29...	1050	7830	739	19.0	7.8	328	17.0	110	29.5	7.79

ALLEGHENY RIVER BASIN

03049625 ALLEGHENY RIVER AT NEW KENSINGTON, PA--Continued

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

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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) (00608)
OCT 26...	2.4	25.5	65	29.7	.1	1.5	86.7	.24	.22	.065
NOV 18...	2.3	14.1	38	19.3	.1	4.5	53.2	.45	.54	.104
DEC 09...	2.1	21.0	35	27.2	.1	.6	70.6	.18	.26	.032
JAN 19...	1.3	10.9	27	16.6	<.1	4.6	34.9	.15	.27	.071
FEB 23...	1.7	18.3	22	30.6	.1	5.3	51.1	.17	.33	.073
MAR 31...	1.4	12.2	23	20.0	<.1	4.2	60.6	.14	.19	.036
APR 27...	1.3	8.4	22	12.0	<.1	4.4	39.6	.16	.33	.023
MAY 25...	1.5	8.5	29	11.9	<.1	4.6	34.8	.26	.45	.029
JUN 30...	1.4	10.3	32	13.7	<.1	3.7	41.5	.15	.35	.021
JUL 25...	2.0	18.2	41	21.6	.1	2.7	91.0	.19	.32	.025
AUG 29...	1.8	18.6	40	17.5	.2	3.2	63.2	.25	.31	.034
SEP 29...	2.1	17.0	44	23.0	E.1	2.4	65.9	.23	.32	E.036
DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, DIS- SOLVED (MG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (MG/L AS MN) (01056)	SEDI- MENT, SUS- PENDEED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 26...	.555	.022	.012	<.010	.026	228	E10	33	8	85
NOV 18...	.986	.032	.035	.012	.049	162	40	90	10	76
DEC 09...	.664	.014	.009	.010	.025	208	20	11	8	87
JAN 19...	.784	.011	.011	.015	.024	122	30	130	4	77
FEB 23...	1.14	.010	E.004	<.010	.027	157	20	230	9	92
MAR 31...	.760	.012	E.005	<.010	.015	152	50	241	7	91
APR 27...	.851	<.010	<.006	<.010	.028	112	40	143	16	93
MAY 25...	.512	<.010	.009	<.010	.047	117	40	72	33	94
JUN 30...	.465	<.010	E.004	<.010	.025	128	30	43	11	91
JUL 25...	.641	<.010	<.006	<.010	.020	226	<10	E2	8	88
AUG 29...	.602	.016	.006	<.010	.019	175	<10	2	7	88
SEP 29...	.608	.016	.012	<.018	.031	191	20	81	11	94

ALLEGHENY RIVER BASIN

03049625 ALLEGHENY RIVER AT NEW KENSINGTON, PA--Continued

REMARKS.--The following data are for analytes from the National Water Quality Laboratory (NWQL) schedule 2010--pesticides in filtered water. Samples are filtered through a glass-fiber membrane filter with openings that are 0.7 microns in size to remove sediment and microorganisms. A surrogate is then added to the sample. The filtered water is then field extracted onto a C-18 Solid Phase Extraction Cartridge and analyzed by a gas chromatography/mass spectrometric detector.

The method detection limit (MDL) provides an index to indicate where measurement uncertainty is increased. When an analyte is detected and all criteria for a positive result are met, the concentration is reported. If the concentration is less than the MDL, an 'E' code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the NWQL will identify the result with an 'E' code even though the measured value is greater than the MDL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less-than sign (<). The abbreviations SRG, SURROGT, or SURROG indicate surrogate and recovery is reported in percent.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 µ GF, REC (82660)	ACETO- CHLOR, WATER FLTRD REC (49260)	ALA- CHLOR, WATER, DISS, REC, (46342)	ALPHA BHC DIS- SOLVED (34253)	ATRA- ZINE, WATER, DISS, REC (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (82673)	BUTYL- ATE, WATER, FLTRD DISS, REC (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (82674)
OCT											
26...	1100	4810	<.003	<.002	<.002	<.002	.008	<.002	<.002	<.003	<.003
NOV											
18...	1020	5290	<.003	<.002	<.002	<.002	.013	<.002	<.002	<.003	<.003
DEC											
09...	1045	17200	<.003	<.002	<.002	<.002	.008	<.002	<.002	<.003	<.003
JAN											
19...	1130	8200	<.003	<.002	<.002	<.002	.006	<.002	<.002	<.003	<.003
FEB											
23...	1030	24200	<.003	<.002	<.002	<.002	.009	<.002	<.002	<.003	<.010
MAR											
31...	1045	13000	<.003	<.002	<.002	<.002	.009	<.002	<.002	<.003	<.003
APR											
27...	1130	34300	<.003	<.002	<.002	<.002	.019	<.002	<.002	<.003	<.003
MAY											
25...	1130	36200	<.003	.029	<.002	<.002	.169	<.002	<.002	<.003	<.003
JUN											
30...	1015	14200	<.003	<.002	<.002	<.002	.070	<.002	<.002	<.003	<.003
JUL											
25...	1215	6370	<.003	<.002	<.002	<.002	.080	<.002	<.002	<.003	<.003
AUG											
29...	1200	4270	<.003	<.002	<.002	<.002	.034	<.002	<.002	<.003	<.003
SEP											
29...	1050	7830	<.002	<.004	<.002	<.005	.018	<.010	<.002	<.041	<.020

DATE	CHLOR- PYRIFOS DIS- SOLVED (38933)	CYANA- ZINE, WATER, DISS, REC (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (04040)	DIAZ- INON D10 SRG WAT FLT 0.7 µ GF, REC PERCENT (91063)	DI- AZINON, DIS- SOLVED (39572)	DI- ELDRIN DIS- SOLVED (39381)	DISUL- FOTON WATER FLTRD 0.7 µ GF, REC (82677)	EPTC WATER FLTRD 0.7 µ GF, REC (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 µ GF, REC (82663)
OCT										
26...	<.004	<.004	<.002	<.002	122	<.002	<.001	<.017	<.002	<.004
NOV										
18...	<.004	<.004	<.002	E.006	104	<.002	<.001	<.017	<.002	<.004
DEC										
09...	<.004	<.004	<.002	<.002	102	<.002	<.001	<.017	<.002	<.004
JAN										
19...	<.004	<.004	<.002	E.004	113	<.002	<.001	<.017	<.002	<.004
FEB										
23...	<.004	<.004	<.002	E.004	103	<.002	<.001	<.017	<.002	<.004
MAR										
31...	<.004	<.004	<.002	E.004	99	<.002	<.001	<.017	<.002	<.004
APR										
27...	<.004	<.004	<.002	E.003	104	<.002	<.001	<.017	<.002	<.004
MAY										
25...	<.004	<.004	<.002	E.009	97	<.002	<.001	<.017	<.002	<.004
JUN										
30...	<.004	<.004	<.002	E.011	88	E.003	<.001	<.017	<.002	<.004
JUL										
25...	<.004	<.004	<.002	E.009	104	.005	<.001	<.017	<.002	<.004
AUG										
29...	<.004	<.004	<.002	E.008	93	<.002	<.001	<.017	<.002	<.004
SEP										
29...	<.005	<.018	<.003	<.006	76	<.005	<.005	<.021	<.002	<.009

ALLEGHENY RIVER BASIN

03049625 ALLEGHENY RIVER AT NEW KENSINGTON, PA--Continued

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

DATE	ETHO- PROP WATER FLTRD 0.7 µ GF, REC (µG/L) (82672)	FONOFOS WATER DISS REC (µG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 µ GF, REC PERCENT (91065)	LINDANE DIS- SOLVED (µG/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (82666)	MALA- THION, DIS- SOLVED (µG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (82686)	METHYL PARA- THION WAT FLT 0.7 µ GF, REC (82667)	METO- LACHLOR WATER DISSOLV (µG/L) (39415)	METRI- BUZIN WATER DISSOLV (µG/L) (82630)
OCT 26...	<.003	<.003	87	<.004	<.002	<.010	<.001	<.006	.005	<.004
NOV 18...	<.003	<.003	103	<.004	<.002	<.005	<.001	<.006	.013	<.004
DEC 09...	<.003	<.003	101	<.004	<.002	<.005	<.001	<.006	.006	<.004
JAN 19...	<.003	<.003	80	<.004	<.002	<.005	<.001	<.006	.006	<.004
FEB 23...	<.003	<.003	92	<.004	<.002	<.005	<.010	<.006	.007	<.004
MAR 31...	<.003	<.003	91	<.004	<.002	<.005	<.001	<.006	.006	<.004
APR 27...	<.003	<.003	76	<.004	<.002	<.005	<.001	<.006	.006	<.004
MAY 25...	<.003	<.003	81	<.004	<.002	<.005	<.001	<.006	.073	<.004
JUN 30...	<.003	<.003	84	<.004	<.002	<.005	<.001	<.006	.019	<.004
JUL 25...	<.003	<.003	88	<.004	<.002	<.005	<.001	<.006	.021	<.004
AUG 29...	<.003	<.003	96	<.004	<.002	<.005	<.001	<.006	.011	<.004
SEP 29...	<.005	<.003	79	<.004	<.035	<.027	<.050	<.006	E.005	<.006
DATE	MOL- INATE WATER FLTRD 0.7 µ GF, REC (µG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)	P, P' DDE DISSOLV (µG/L) (34653)	PARA- THION, DIS- SOLVED (µG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 µ GF, REC (82669)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (82683)	PER- METHRIN CIS WAT FLT 0.7 µ GF, REC (82687)	PHORATE WATER FLTRD 0.7 µ GF, REC (82664)	PRO- METON, WATER, DISS, REC (µG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (82676)
OCT 26...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
NOV 18...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
DEC 09...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
JAN 19...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
FEB 23...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
MAR 31...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
APR 27...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
MAY 25...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
JUN 30...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.005	<.003
JUL 25...	<.010	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
AUG 29...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003
SEP 29...	<.002	<.007	<.002	<.007	<.002	<.010	<.006	<.011	<.015	<.004

ALLEGHENY RIVER BASIN

03049625 ALLEGHENY RIVER AT NEW KENSINGTON, PA--Continued

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

DATE	PROPA- CHLOR, WATER, DISS, REC (µG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 µ GF, REC (µG/L) (82685)	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)	TER- BUFOS WATER FLTRD 0.7 µ GF, REC (µG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 µ GF, REC (µG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)
OCT 26...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
NOV 18...	<.007	<.004	<.013	.009	<.010	<.007	<.013	<.002	<.001	<.002
DEC 09...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
JAN 19...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
FEB 23...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
MAR 31...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
APR 27...	<.007	<.004	<.013	<.010	<.010	<.007	<.013	<.002	<.001	<.002
MAY 25...	<.007	<.004	<.013	.013	<.010	<.007	<.013	<.002	<.001	<.002
JUN 30...	<.007	<.004	<.013	<.010	<.010	<.007	<.013	<.002	<.001	<.002
JUL 25...	<.007	<.004	<.013	.010	<.010	<.007	<.013	<.002	<.001	<.002
AUG 29...	<.007	<.004	<.013	<.010	<.010	<.007	<.013	<.002	<.001	<.002
SEP 29...	<.010	<.011	<.023	<.011	<.016	<.034	<.017	<.005	<.002	<.009