



Water-Data Report 2013

03012600 ALLEGHENY RIVER AT WARREN, PA

Allegheny Basin
Conewango Subbasin

LOCATION.--Lat 41°49'28", long 79°07'09" referenced to North American Datum of 1927, Warren County, PA, Hydrologic Unit 05010002.

DRAINAGE AREA.--2,223 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Analyses for pH, water temperature, specific conductance, and dissolved oxygen were performed on site. All other sample analyses were performed at the Pennsylvania Department of Environmental Protection laboratory in Harrisburg, Pa. Occasionally, values for filtered parameters may exceed values for the corresponding unfiltered parameter. These results are within the limits of analytical precision and methods.

COOPERATION.--Water-quality samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Part 1 of 4

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Osmotic pressure, water, unfiltered, milliosmoles per kilogram (82550)	pH, water, unfiltered, field, standard units (00400)	pH, water, unfiltered, laboratory, standard units (00403)	Specific conductance, water, unfiltered, laboratory, µS/cm at 25°C (90095)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)
11-15-2012	1145	4,840	9.8	< 1.0	7.4	7.8	133	135	9.7	86
01-16-2013	1100	12,300	12.1	2.0	7.6	7.4	100	97	2.6	74
03-20-2013	0830	1,890	13.5	6.0	7.7	7.5	136	138	.8	92
05-07-2013	1400	1,630	14.4	4.0	9.0	7.5	102	103	9.1	16
07-24-2013	1200	1,030	8.8	3.0	7.7	7.8	116	114	19.9	72
09-12-2013	1300	2,260	9.2	4.0	7.7	7.7	125	123	20.6	70

03012600 ALLEGHENY RIVER AT WARREN, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 4

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; M, presence verified but not quantified]

Date	Sample start time	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, unfiltered, recoverable, mg/L (00916)	Magnesium, water, unfiltered, recoverable, mg/L (00927)	Sodium, water, unfiltered, recoverable, mg/L (00929)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (00417)	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)
11-15-2012	1145	42	< 5	12.5	2.5	7.9	35	M	13.1	8.0
01-16-2013	1100	30	< 5	8.6	2.0	5.7	18	M	10.9	8.0
03-20-2013	0830	36	< 5	10.6	2.4	9.6	28	M	17.8	7.9
05-07-2013	1400	29	< 5	8.3	1.9	6.9	22	< 0.025	12.0	7.5
07-24-2013	1200	35	< 5	10.0	2.4	6.9	33	< 0.025	10.9	7.3
09-12-2013	1300	43	6	12.9	2.6	7.8	36	M	11.5	7.3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 4

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Date	Sample start time	Ammonia, water, unfiltered, mg/L as N (00610)	Nitrate, water, unfiltered, mg/L as N (00620)	Nitrite, water, unfiltered, mg/L as N (00615)	Orthophosphate, water, unfiltered, mg/L as P (70507)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, mg/L (00600)	Aluminum, water, unfiltered, recoverable, µg/L (01105)	Barium, water, unfiltered, recoverable, µg/L (01007)	Copper, water, unfiltered, recoverable, µg/L (01042)
11-15-2012	1145	0.020	0.26	< .040	< .01	0.018	0.57	200	M	< 4
01-16-2013	1100	.020	.34	< .040	.01	.014	.49	< 200	M	< 4
03-20-2013	0830	< .020	.42	< .040	< .01	.017	.58	300	M	< 4
05-07-2013	1400	< .020	.32	< .040	< .01	.010	.41	< 200	M	< 4
07-24-2013	1200	.020	.18	< .040	< .01	.015	.26	< 200	M	< 4
09-12-2013	1300	< .020	.12	< .040	< .01	.011	.31	< 200	M	< 4

03012600 ALLEGHENY RIVER AT WARREN, PA—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Part 4 of 4

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Date	Sample start time	Iron, water, unfiltered, recoverable, µg/L (01045)	Lead, water, unfiltered, recoverable, µg/L (01051)	Manganese, water, unfiltered, recoverable, µg/L (01055)	Nickel, water, unfiltered, recoverable, µg/L (01067)	Strontium, water, unfiltered, recoverable, micrograms per liter (01082)	Zinc, water, unfiltered, recoverable, µg/L (01092)	Boron, water, unfiltered, recoverable, micrograms per liter (01022)	Selenium, water, unfiltered, µg/L (01147)
11-15-2012	1145	340	< 1.0	80	< 50	40	< 10	< 200	< 7
01-16-2013	1100	200	< 1.0	30	< 50	30	10	< 200	< 7
03-20-2013	0830	380	< 1.0	40	< 50	30	10	< 200	< 7
05-07-2013	1400	120	< 1.0	20	< 50	30	< 10	< 200	< 7
07-24-2013	1200	150	< 1.0	120	< 50	30	< 10	< 200	< 7
09-12-2013	1300	100	< 1.0	90	< 50	40	< 10	< 200	< 7