



Water-Data Report 2013

01431600 WALLENPAUPACK CREEK AT EAST STERLING, PA

Upper Delaware Basin
Lackawaxen Subbasin

LOCATION.--Lat 41°20'10", long 75°20'25" referenced to North American Datum of 1927, Wayne County, PA, Hydrologic Unit 02040103, at bridge on dirt road 2.6 mi south of intersection of State Routes 84 and 191, 0.2 mi upstream from Rock Port Creek, and at East Sterling, Pa.

DRAINAGE AREA.--69.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--1944-57, 1978-81, 1989 to current year.

REVISED RECORDS.--WDR PA-01-1: Drainage area.

GAGE.--Non-recording gage. Datum of gage is 1237.93 ft above National Geodetic Vertical Datum of 1929. Prior to November 8, 1989 datum at same location 2.0 ft higher.

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the Pennsylvania Department of Environmental Protection.

DISCHARGE MEASUREMENTS WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Date	Discharge, in ft ³ /s
Oct 3, 2012	86.2
Dec 4, 2012	90.5
Jan 31, 2013	799
Mar 28, 2013	141
May 1, 2013	123
Jun 12, 2013	302
Aug 8, 2013	41.2

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WATER-QUALITY RECORDS

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

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.

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.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 5

[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; --, no data; <, 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)	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)	Bio-chemical oxygen demand, unfiltered, 5 days at 20°C, mg/L (00310)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)
11-14-2012	0800	224	12.3	6.6	7.0	53	52	5.3	1.6	56
01-15-2013	0900	197	13.2	7.1	6.9	62	62	2.5	1.8	48
03-13-2013	1000	621	12.6	6.8	7.0	54	54	2.2	1.9	286
05-29-2013	1130	135	10.2	7.5	7.2	62	60	14.7	1.1	56
07-17-2013	1030	70	9.2	6.8	7.5	72	71	21.6	.4	50
09-24-2013	1000	30	11.5	7.7	7.5	86	87	11.5	1.2	66

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 5

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Date	Sample start time	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Calcium, water, unfiltered, recoverable, mg/L (00916)	Magnesium, water, filtered, mg/L (00925)	Magnesium, water, unfiltered, recoverable, mg/L (00927)	ANC, water, unfiltered, fixed endpoint titration, (pH 4.5) laboratory, mg/L as CaCO ₃ (00417)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)
11-14-2012	0800	14	< 5	4.42	4.5	0.62	0.7	8	5.8	5.3
01-15-2013	0900	16	< 5	4.97	5.1	.70	.7	8	7.4	5.7
03-13-2013	1000	13	6	3.98	4.1	.61	.6	6	7.9	4.4
05-29-2013	1130	17	< 5	5.40	5.3	.84	.8	9	7.0	4.9
07-17-2013	1030	20	< 5	6.01	6.4	.91	1.0	15	8.2	4.9
09-24-2013	1000	26	< 5	7.98	8.5	1.12	1.2	16	10.4	5.7

01431600 WALLENPAUPACK CREEK AT EAST STERLING, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 5

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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, filtered, µg/L (01106)	Aluminum, water, unfiltered, recoverable, µg/L (01105)	Copper, water, filtered, µg/L (01040)
11-14-2012	0800	< .020	0.23	< .040	< .01	0.013	0.44	43	M	< 4
01-15-2013	0900	< .020	.29	< .040	< .01	< .010	.39	31	M	< 4
03-13-2013	1000	< .020	.29	< .040	< .01	.019	.52	58	100	< 4
05-29-2013	1130	.040	.16	< .040	< .01	.020	.28	26	M	< 4
07-17-2013	1030	< .020	.21	< .040	.01	.016	.34	13	M	< 4
09-24-2013	1000	.040	.17	< .040	< .01	.013	.29	< 10	M	< 4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 4 of 5

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Date	Sample start time	Copper, water, unfiltered, recoverable, µg/L (01042)	Iron, water, filtered, µg/L (01046)	Iron, water, unfiltered, recoverable, µg/L (01045)	Lead, water, filtered, µg/L (01049)	Lead, water, unfiltered, recoverable, µg/L (01051)	Manganese, water, filtered, µg/L (01056)	Manganese, water, unfiltered, recoverable, µg/L (01055)	Nickel, water, filtered, µg/L (01065)	Nickel, water, unfiltered, recoverable, µg/L (01067)
11-14-2012	0800	< 4	60	120	< 1.0	< 1.0	10	20	< 4.0	< 4.0
01-15-2013	0900	< 4	50	110	< 1.0	< 1.0	10	20	< 4.0	< 4.0
03-13-2013	1000	< 4	60	240	< 1.0	< 1.0	20	40	< 4.0	< 4.0
05-29-2013	1130	< 4	90	160	< 1.0	< 1.0	20	40	< 4.0	< 4.0
07-17-2013	1030	< 4	40	140	< 1.0	< 1.0	20	30	< 4.0	< 4.0
09-24-2013	1000	< 4	50	120	< 1.0	< 1.0	20	20	< 4.0	< 4.0

01431600 WALLENPAUPACK CREEK AT EAST STERLING, PA—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER
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Part 5 of 5

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Date	Sample start time	Zinc, water, filtered, µg/L (01090)	Zinc, water, unfiltered, recoverable, µg/L (01092)
11-14-2012	0800	10	40
01-15-2013	0900	M	M
03-13-2013	1000	M	M
05-29-2013	1130	< 5.0	M
07-17-2013	1030	--	--
09-24-2013	1000	< 5.0	< 5.0