

03030852 CLARION RIVER AT CALLENSBURG, PA

Allegheny Basin
Clarion Subbasin

LOCATION.--Lat 41°07'47", long 79°33'16" referenced to North American Datum of 1927, Clarion County, PA, Hydrologic Unit 05010005, at bridge on State Highway 58 at Callensburg, and 0.3 mi upstream from Licking Creek.

DRAINAGE AREA.--1,163 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--1979 to 2013 (discharge measurements only). Discontinued.

GAGE.--Water-stage recorder. Datum of gage is 980 ft above National Geodetic Vertical Datum of 1929, from topographic map.

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the U.S. Army Corps of Engineers, Pittsburgh District.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Date	Discharge, in ft³/s
Apr 5, 2013	2,530
May 31, 2013	1,320
Aug 22, 2013	286

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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 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; E, estimated; 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, field, standard units (00400)	pH, water, laboratory, standard units (00403)	Specific conductance, water, unfiltered, laboratory, µS/cm at 25°C (90095)	Specific conductance, water, unfiltered, laboratory, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)
11-13-2012	1215	E 620	13.5	1.0	7.0	7.3	213	214	6.4	126
01-15-2013	1130	7,330	11.1	< 1.0	--	6.8	144	144	4.4	86
03-21-2013	1200	5,220	13.8	4.0	--	6.8	164	164	1.6	112
05-09-2013	1045	1,030	9.6	4.0	7.0	6.9	224	218	14.9	142
07-17-2013	1200	573	7.4	5.0	7.1	7.4	250	210	24.3	170
09-05-2013	1230	268	8.4	6.0	7.8	7.6	346	346	25.7	218

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, unfiltered, recoverable, mg/L (00916)	Magnesium, water, unfiltered, recoverable, mg/L (00927)	Potassium, water, unfiltered, recoverable, mg/L (00937)	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)
11-13-2012	1215	58	< 5	14.3	5.4	1.8	12.3	13	0.1	13.1
01-15-2013	1130	35	< 5	8.9	3.2	1.3	8.8	8	< 0.025	12.1
03-21-2013	1200	40	10	9.5	4.0	1.0	9.5	6	< 0.025	14.1
05-09-2013	1045	66	6	15.0	7.0	1.6	12.2	10	M	12.3
07-17-2013	1200	76	< 5	19.6	6.5	1.7	13.8	27	M	17.7
09-05-2013	1230	97	< 5	24.1	8.8	2.5	25.4	24	.1	19.8

03030852 CLARION RIVER AT CALLENSBURG, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 5

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Date	Sample start time	Sulfate, water, filtered, mg/L (00945)	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)
11-13-2012	1215	57.6	0.020	0.58	< .040	< .01	0.013	0.86	< 200	M
01-15-2013	1130	33.8	.020	.47	< .040	< .01	.011	.59	200	M
03-21-2013	1200	40.0	.030	.50	< .040	< .01	.010	.64	300	M
05-09-2013	1045	67.5	< .020	.36	< .040	< .01	< .010	.48	200	M
07-17-2013	1200	62.5	.020	.42	< .040	< .01	< .010	.53	< 200	M
09-05-2013	1230	97.2	.030	.35	< .040	< .01	< .010	.38	< 200	M

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, 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)
11-13-2012	1215	< 4	590	< 1.0	470	< 50	80	10	< 200	< 7
01-15-2013	1130	< 4	430	< 1.0	300	< 50	50	20	< 200	< 7
03-21-2013	1200	< 4	570	< 1.0	380	< 50	50	30	< 200	< 7
05-09-2013	1045	< 4	530	< 1.0	670	< 50	90	30	< 200	< 7
07-17-2013	1200	< 4	240	< 1.0	420	< 50	90	10	< 200	< 7
09-05-2013	1230	< 4	240	< 1.0	420	< 50	150	20	< 200	< 7

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Part 5 of 5

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Date	Sample start time	Organic carbon, water, filtered, mg/L (00681)
11-13-2012	1215	2.0
01-15-2013	1130	1.8
03-21-2013	1200	1.7
05-09-2013	1045	1.9
07-17-2013	1200	2.1
09-05-2013	1230	3.6