



Water-Data Report 2011

03082146 NEALS RUN NEAR SEVEN SPRINGS, PA

Monongahela Basin
Youghiogheny Subbasin

LOCATION.--Lat 40°01'21", long 79°20'01" referenced to North American Datum of 1983, Fayette County, PA, Hydrologic Unit 05020006.

DRAINAGE AREA.--1.66 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2010 to October 2010.

REMARKS.--Samples collected as part of the Back Creek Watershed Assessment Project.

COOPERATION.--Station established by the U.S. Geological Survey in cooperation with the Somerset County Conservation District.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 1 of 3

[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]

Date	Sample start time	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	ANC, water, unfiltered, fixed endpoint titration, field, mg/L as CaCO ₃ (00410)	Acidity, water, unfiltered, heated, milligrams per liter as calcium carbonate (70508)
10-13-2010	1345	.38	9.6	7.1	72	10.8	9.17	1.11	20	-17

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 2 of 3

[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]

Date	Sample start time	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)
10-13-2010	1345	< .010	4.57	5.70	< .010	.60	.002	< .01	< .01

03082146 NEALS RUN NEAR SEVEN SPRINGS, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 3

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Date	Sample start time	Total nitrogen, water, unfiltered, analytically determined, mg/L (62855)	Aluminum, water, filtered, µg/L (01106)	Barium, water, filtered, µg/L (01005)	Iron, water, filtered, µg/L (01046)	Manganese, water, filtered, µg/L (01056)	Strontium, water, filtered, µg/L (01080)
10-13-2010	1345	.69	4.9	26.5	7.7	1.77	19.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 3

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Date	Sample start time	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	ANC, water, unfiltered, fixed endpoint titration, (pH 4.5) field, mg/L as CaCO ₃ (00410)	Acidity, water, unfiltered, heated, milligrams per liter as calcium carbonate (70508)
05-26-2010	1440	4.7	10.2	6.6	61	12.7	6.76	.975	10	-7.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 3

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05-26-2010	1440	E .015	4.61	8.22	< .020	.46	< .002	< .02	< .02

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 3

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05-26-2010	1440	.62	7.4	24.0	< 6.0	2.17	17.2