

Water-Data Report 2013

**01472190 PICKERING CREEK NEAR PHOENIXVILLE, PA**

Lower Delaware Basin  
Schuylkill Subbasin

LOCATION.--Lat 40°06'33", long 75°31'42" referenced to North American Datum of 1927, Chester County, PA, Hydrologic Unit 02040203, at bridge on Creek Road at SR 29, 0.3 mi downstream from Conrail bridge, 1.0 mi south of Phoenixville, Pa., and 2.6 mi upstream from Pickering Creek Dam.

DRAINAGE AREA.--31.4 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--1947-66, 1969-80 (periodic measurements of discharge), 1967-68 (continuous-record gaging station), 1981-84 (low-flow partial-record station), 1985 to current year.

GAGE.--Non-recording gage. Datum of gage is 115 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 Delaware River Basin Commission.

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

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Oct 17, 2012	18.9
Dec 12, 2012	29.4
Feb 1, 2013	65.4
Mar 19, 2013	129
Mar 19, 2013	126
May 8, 2013	138
May 8, 2013	146
Jun 27, 2013	40.1
Aug 20, 2013	29.0

01472190 PICKERING CREEK NEAR PHOENIXVILLE, PA—Continued

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--September 1970 to current year.

REMARKS.--Samples were collected as part of the Chester County Biological Monitoring project.

COOPERATION.--Samples were collected with cooperation from the Chester County Water Resources Authority.

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

Part 1 of 3

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/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 <sup>3</sup> /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)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)
10-18-2012	1230	20	11.9	8.1	8.0	307	306	11.6	30.5	9.07

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

Part 2 of 3

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/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	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, unfiltered, fixed endpoint titration, (pH 4.5) laboratory, mg/L as CaCO <sub>3</sub> (90410)	ANC, water, unfiltered, inflection-point, incremental titration method, field, mg/L as CaCO <sub>3</sub> (00419)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO <sub>2</sub> (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)
10-18-2012	1230	3.23	14.3	66.7	64	37.3	0.04	16.7	21.0	< .010

## 01472190 PICKERING CREEK NEAR PHOENIXVILLE, PA—Continued

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

Part 3 of 3

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/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]

<b>Date</b>	<b>Sample start time</b>	<b>Nitrate plus nitrite, water, filtered, mg/L as N (00631)</b>	<b>Nitrite, water, filtered, mg/L as N (00613)</b>	<b>Orthophos- phate, water, filtered, mg/L as P (00671)</b>	<b>Iron, water, filtered, μg/L (01046)</b>	<b>Boron, water, filtered, μg/L (01020)</b>
10-18-2012	1230	1.14	0.003	0.008	61.9	9.5

## 01472190 PICKERING CREEK NEAR PHOENIXVILLE, PA—Continued

## ECOLOGICAL RECORDS

PERIOD OF RECORD.--September 1970 to current year.

REMARKS.--Samples were collected using a Hess sampler with a mesh size of 500 microns. Three samples were collected and composited. Each sample covered a total area of 2.4 m<sup>2</sup>.

Date	10/18/12
Benthic Macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	2
Nematoda (NEMATODES)	42
Nemertea (PROBOSCIS WORMS)	
Enopla	
Hoplonemertea	
Tetrastemmatidae	
<i>Prostoma</i>	9
Mollusca	
Gastropoda (SNAILS)	
Basommatophora	
Ancylidae	
<i>Ferrissia</i>	22
Planorbidae	
<i>Menetus dilatatus</i>	1
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	
Lumbriculida	
Lumbriculidae	13
Tubificida	

**01472190 PICKERING CREEK NEAR PHOENIXVILLE, PA—Continued**

Date	10/18/12
Benthic Macroinvertebrate	Count
Naididae	17
Arthropoda	
Acariformes	
Hydrachnidae (WATER MITES)	70
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	
<i>Acentrella</i>	31
<i>Baetis</i>	11
Ephemerellidae	
<i>Serratella</i>	53
Heptageniidae	
<i>Maccaffertium</i>	109
Isonychiidae	
<i>Isonychia</i>	55
Odonata (DRAGONFLIES AND DAMSELFLIES)	
Coenagrionidae	
<i>Argia</i>	1
Plecoptera (STONEFLIES)	
Capniidae	
<i>Allocapnia</i>	47
Perlidae	
<i>Acroneuria</i>	6
<i>Paragnetina</i>	1
Taeniopterygidae	
<i>Strophopteryx</i>	3

## 01472190 PICKERING CREEK NEAR PHOENIXVILLE, PA—Continued

Date	10/18/12
Benthic Macroinvertebrate	Count
<i>Taeniopteryx</i>	92
Megaloptera	
Corydalidae (FISHFLIES AND DOBSONFLIES)	
<i>Corydalus</i>	5
Trichoptera (CADDISFLIES)	
Apataniidae	
<i>Apatania</i>	7
Brachycentridae	
<i>Micrasema</i>	2
Glossosomatidae	
<i>Glossosoma</i>	3
Hydropsychidae	
<i>Cheumatopsyche</i>	242
<i>Hydropsyche</i>	349
Hydroptilidae	
<i>Hydroptila</i>	3
<i>Leucotrichia</i>	6
Philopotamidae	
<i>Chimarra</i>	72
Psychomyiidae	
<i>Psychomyia</i>	1
Rhyacophilidae	
<i>Rhyacophila</i>	3
Uenoidae	
<i>Neophylax</i>	1
Lepidoptera (MOTHS AND BUTTERFLIES)	
Pyralidae	

## 01472190 PICKERING CREEK NEAR PHOENIXVILLE, PA—Continued

Date	10/18/12
Benthic Macroinvertebrate	Count
<i>Petrophila</i>	1
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<i>Optioservus</i>	108
<i>Oulimnius</i>	28
<i>Promoresia</i>	1
<i>Stenelmis</i>	18
Psephenidae (WATER PENNIES)	
<i>Psephenus</i>	37
Diptera (TRUE FLIES)	
Athericidae	
<i>Atherix</i>	1
Chironomidae (MIDGES)	140
Empididae (DANCE FLIES)	
<i>Hemerodromia</i>	4
Simuliidae (BLACK FLIES)	
<i>Simulium</i>	2
Tipulidae (CRANE FLIES)	
<i>Antocha</i>	21
Total Organisms	1640