



Water-Data Report 2010

01464430 CROSSWICKS CREEK NEAR HORNERSTOWN, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°06'08", long 74°32'39" referenced to North American Datum of 1983, Upper Freehold Township, Monmouth County, NJ, Hydrologic Unit 02040201, at bridge on Arneytown-Hornerstown Road, 1.2 mi east of Arneytown, 1.5 mi southwest of Hornerstown, and 2.7 mi upstream from Miry Run.

DRAINAGE AREA.--49.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 2007-08, 2010.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Date	Discharge, in ft³/s
Dec 3, 2009	346

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2007 to September 2010 (discontinued).

PERIOD OF DAILY RECORD.--

- DISSOLVED OXYGEN, in mg/L: September 2009, July 2010.
- DISSOLVED OXYGEN, in Percent of Saturation: September 2009, July 2010.
- pH: September 2009, July 2010.
- SPECIFIC CONDUCTANCE: September 2009, July 2010.
- WATER TEMPERATURE: September 2009, July 2010.

REMARKS.--The accuracy of continuous water-quality data was verified through simultaneous measurements of a similar instrument recorded at time of deployment and retrieval.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 1 of 2

[%, percent; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; E, estimated]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)
09-08-2010	1340	752	32.0	7.0	82	7.5	287	23.3	6.8

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 2 of 2

[%, percent; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; E, estimated]

Date	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, mg/L (00600)	Chlorophyll a, phytoplankton, chromatographic-fluorometric method, µg/L (70953)	Pheophytin a, phytoplankton, µg/L (62360)	Organic carbon, water, filtered, mg/L (00681)	Organic carbon, water, unfiltered, mg/L (00680)
09-08-2010	.38	E .036	.19	.046	.115	.57	E 1.3	E 2.0	4.0	5.5

01464430 CROSSWICKS CREEK NEAR HORNERSTOWN, NJ—Continued

WATER-QUALITY-MONITOR VALUES, 5 MINUTE RECORDED INTERVAL, AT
01464430, CROSSWICKS CREEK NEAR HORNERSTOWN, NJ FROM
JULY 20, 2010 TO JULY 26, 2010

