



Water-Data Report 2010

01464485 CROSSWICKS CREEK NEAR ELLISDALE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°07'59", long 74°33'37" referenced to North American Datum of 1983, Upper Freehold Township, Monmouth County, NJ, Hydrologic Unit 02040201, at bridge on Walnford Road, 300 ft downstream from Walnford Mill impoundment, 1.3 mi east of Ellisdale, and 3.3 mi southeast of Allentown.

DRAINAGE AREA.--78.3 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 2007-10.

GAGE.--Reference point only.

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

Date	Discharge, in ft³/s
Dec 3, 2009	405

01464485 CROSSWICKS CREEK NEAR ELLISDALE, NJ—Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN, in mg/L: July 2010.

DISSOLVED OXYGEN, in Percent of Saturation: July 2010.

pH: July 2010.

SPECIFIC CONDUCTANCE: July 2010.

WATER TEMPERATURE: 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	1030	752	31.0	7.2	81	7.3	229	21.2	6.2

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	.25	E .032	.15	.052	.092	.40	E .8	E 1.2	2.9	4.2

01464485 CROSSWICKS CREEK NEAR ELLISDALE, NJ—Continued

WATER-QUALITY-MONITOR VALUES, 5 MINUTE RECORDED INTERVAL, AT
01464485, CROSSWICKS CREEK NEAR ELLISDALE, NJ FROM
JULY 20, 2010 TO JULY 26, 2010

