



Water-Data Report 2009

01482530 MAJOR RUN AT SHARPTOWN, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°38'56", long 75°22'28" referenced to North American Datum of 1983, Pilesgrove Township, Salem County, NJ, Hydrologic Unit 02040206, at bridge on Kings Highway (County Route 620), 0.4 mi upstream from mouth, and 0.7 mi southwest of Sharptown.

DRAINAGE AREA.--3.04 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1966-72, 1974-75. Miscellaneous measurements, water years 2003-09.

GAGE.--Reference point only.

DISCHARGE MEASUREMENTS WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Date	Discharge, in ft ³ /s
Dec 16, 2008	1.21
Feb 3, 2009	2.14
Apr 28, 2009	1.42
Apr 28, 2009	1.31
May 5, 2009	3.78
Jul 30, 2009	2.08

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2001-02, 2007 to July 2009 (discontinued).

PERIOD OF DAILY RECORD.--

- DISSOLVED OXYGEN: July 2001, August 2008, July 2009.
- DISSOLVED OXYGEN, PERCENT OF SATURATION: July 2001, August 2008, July 2009.
- pH: July 2001, July-August 2008, June-July 2009.
- SPECIFIC CONDUCTANCE: July 2001, July-August 2008, June-July 2009.
- WATER TEMPERATURE: July 2001, July-August 2008, June-July 2009.

REMARKS.--The accuracy of continuous water-quality data is routinely verified through inspections for fouling and calibration drift. The New Jersey Water Science Center requires that either constant or prorated adjustments be made to the continuous water-quality record when the difference between a sensor's response and a known value exceeds the following criteria: Water Temperature, 0.2 degrees Celsius (+ or -); Specific Conductance, the greater of 5 microsiemens/cm (+ or -) or 3% of the measured value; Dissolved Oxygen, the greater of 0.3 mg/L (+ or -) or 5% of the measured value; pH, 0.3 units (+ or -). If the difference between a sensor's response and a known value is within specified criteria, the data are considered to be reliable and are not adjusted. Data from the following period(s) were adjusted - DISSOLVED OXYGEN: July 6-10 2009. [Unpublished records of pH, specific conductance, and water temperature for the period of June 26 - July 6, 2009 are available in files of the U.S. Geological Survey's New Jersey Water Science Center, and website <http://nwis.waterdata.usgs.gov/>. The dissolved oxygen record is null; the deletion criteria was exceeded due to excessive fouling].

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of carbonaceous biochemical oxygen demand and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 2

[Remark codes: <, less than.]

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	Instan- taneous dis- charge, ft ³ /s (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd std units (00400)	Specif- ic conduc- tance, wat un- f μS/cm @ 25 degC (00095)	Temper- ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)	Sus- pended solids, water, unfltrd mg/L (00530)	
May 05...	1100	765	16.0	3.8	8.2	81	7.4	355	14.9	48	<1.0	221	44

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 2

[Remark codes: <, less than.]

Date	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltrd, mg/L (00940)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total nitro- gen, water, unfltrd mg/L (00600)	Chloro- phyll a phyto- plank- ton, fluoro, μg/L (70953)	Pheo- phytin a, phyto- plank- ton, μg/L (62360)	Iron, water, unfltrd recover- able, μg/L (01045)	Boron, water, unfltrd recover- able, μg/L (01022)	Organic carbon, water, unfltrd mg/L (00680)
May 05...	90	36.0	1.0	.316	.61	.03	.19	1.6	16.6	20.0	2,710	18	8.0

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HOURLY WATER-QUALITY-MONITOR VALUES
JULY 6, 2009 TO JULY 10, 2009

