

Water-Data Report 2007

**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 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1966-72, 1974-75. Miscellaneous measurements, water years 2003-07.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Nov 20, 2006	2.80
Mar 15, 2007	2.48
Jun 12, 2007	1.34
Jul 9, 2007	0.79
Jul 25, 2007	0.57
Aug 14, 2007	0.25
Aug 22, 2007	2.19
Sep 14, 2007	0.69
Sep 25, 2007	0.50

## 01482530 MAJOR RUN AT SHARPTOWN, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2001-02, 2007.

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 2006 TO SEPTEMBER 2007**

Part 1 of 2

[Remark codes: &lt;, less than; E, estimated.]

Date	Time	Instan- taneous dis- charge, cfs (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltrd, mg/L (00940)	Residue on evap. at 180degC wat flt mg/L (70300)
<b>Jul</b>													
09...	1000	.79	20	760	3.1	39	7.0	340	29.5	26.5	78	38.1	192
25...	1125	.57	52	765	4.5	53	6.8	321	25.0	23.3	65	36.5	188
<b>Aug</b>													
14...	1240	.25	36	759	3.6	42	6.8	320	26.5	23.7	71	33.3	193
22...	1240	2.2	52	765	8.0	85	7.2	353	15.0	18.8	87	35.3	220
<b>Sep</b>													
25...	1150	.50	20	764	6.4	72	7.3	367	25.5	21.1	93	39.3	226

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 2

[Remark codes: &lt;, less than; E, estimated.]

Date	Residue total non- filter- able, mg/L (00530)	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)	Total nitro- gen, water, unfltrd mg/L (00600)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	CBOD, water, unfltrd 5 day, mg/L (80082)	Chloro- phyll a phyto- plank- ton, fluoro, µg/L (70953)	Pheo- phytin a, phyto- plank- ton, µg/L (62360)	Boron, water, unfltrd recover -able, µg/L (01022)	Iron, water, unfltrd recover -able, µg/L (01045)
<b>Jul</b>													
09...	22	1.6	.307	.26	1.9	.069	.255	10.6	3.1	44.9	27.1	21	1,520
25...	82	2.5	.162	.41	3.0	.054	.58	11.8	<3.9	131	63.3	25	4,780
<b>Aug</b>													
14...	34	1.7	.280	.58	2.2	.071	.351	11.9	E1.5	35.3	30.6	25	3,320
22...	51	1.5	.279	.42	1.9	.044	.324	12.8	E1.7	39.2	34.2	27	3,200
<b>Sep</b>													
25...	22	1.2	.067	.239	1.4	.050	.232	9.7	2.6	43.2	18.8	23	1,730