

**01445160 BEAR BROOK AT DARK MOON ROAD, NEAR JOHNSONBURG, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 40°58'30", long 74°50'56" referenced to North American Datum of 1983, Frelinghuysen Township, Warren County, NJ, Hydrologic Unit 02040105, at bridge on Dark Moon Road, 1.3 mi northeast of Johnsonburg, 1,100 ft upstream from abandoned railroad, and 2.3 mi upstream of mouth and Bear Creek.

DRAINAGE AREA.--5.10 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Miscellaneous measurements, water years 2001 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Nov 1, 2005	15.0
Feb 1, 2006	15.2
May 2, 2006	2.94
Aug 2, 2006	2.04

01445160 BEAR BROOK AT DARK MOON ROAD, NEAR JOHNSONBURG, NJ—Continued

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 2001 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia plus organic nitrogen (00623), filtered nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Agricultural Land Use Indicator, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 1.

COOPERATION.--Samples were collected in cooperation with the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 4

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

Date	Time	Instan- taneous dis- charge, cfs (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	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. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)
Nov 01...	1010	15	.9	.128	.098	750	10.6	93	7.4	339	11.5	9.0	160
Feb 01...	1130	15	.9	.063	.047	747	11.5	92	7.7	353	5.0	4.9	140
May 02...	1100	2.9	1.0	.061	.047	750	11.0	103	7.8	440	19.0	11.4	200
Aug 02...	1110	2.0	.7	.022	.017	744	12.0	123	7.8	445	37.0	15.3	200

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 2 of 4

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

Date	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 01...	38.8	14.4	1.57	14.6	128	24.3	<.10	7.2	21.3	203	219	1	.40
Feb 01...	34.2	12.5	1.22	13.7	127	24.4	<.10	4.5	16.2	187	188	1	.19
May 02...	47.5	20.1	1.12	12.2	184	22.0	.10	5.2	15.8	239	243	1	.30
Aug 02...	48.2	18.5	1.30	12.8	186	22.2	E.06	7.2	15.7	243	246	1	.21

## 01445160 BEAR BROOK AT DARK MOON ROAD, NEAR JOHNSONBURG, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 3 of 4

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
<b>Nov</b> <b>01...</b>	<.010	.88	<.02	1.3	--	.014	.019	.023	.2	<.1	.2	3.1	<1.1
<b>Feb</b> <b>01...</b>	.018	.97	<.02	1.2	--	E.007	.008	.012	.2	<.1	.2	2.0	E1.4
<b>May</b> <b>02...</b>	.023	1.08	.03	1.4	1.4	E.006	.008	.010	.3	<.1	.3	1.9	E1.6
<b>Aug</b> <b>02...</b>	<.010	1.34	<.02	1.5	--	E.009	.006	.008	.2	<.1	.2	1.2	E1.5

**WATER-QUALITY  
DATA**

**WATER YEAR  
OCTOBER 2005 TO  
SEPTEMBER 2006**

Part 4 of 4

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

Date	Boron, water, fltrd, ug/L (01020)
<b>Nov</b> <b>01...</b>	12
<b>Feb</b> <b>01...</b>	9.7
<b>May</b> <b>02...</b>	9.1
<b>Aug</b> <b>02...</b>	11

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**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

<b>Date</b>	<b>Time</b>	<b>Temper- ature, water, deg C (00010)</b>	<b>Entero- cocci, m-E MF, water, col/ 100 mL (31649)</b>	<b>E coli, m-TEC MF, water, col/ 100 mL (31633)</b>	<b>Fecal coli- form, ECbroth water, MPN/ 100 mL (31615)</b>
<b>Aug</b>					
<b>10...</b>	0755	11.5	460	60	130
<b>17...</b>	0758	13.3	130	20	40
<b>24...</b>	0915	12.5	370	20	80
<b>31...</b>	0820	13.5	180	90	40
<b>Sep</b>					
<b>07...</b>	0830	12.9	150	130	40