



Water-Data Report 2007

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 from mouth.

DRAINAGE AREA.--5.10 mi².

SURFACE-WATER RECORDS

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

GAGE.--Staff gage.

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

Date	Discharge, in ft³/s
Nov 1, 2006	6.70
Feb 6, 2007	3.19
May 1, 2007	11.6
Aug 2, 2007	0.94

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). Cooperative Network Site Descriptor: Agricultural Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 1.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, 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 3

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

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC μS/cm (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Nov 01...	1030	6.7	1.7	.113	.085	746	9.6	89	7.4	399	22.0	11.2	180
Feb 06...	1130	3.2	5.5	.041	.032	752	12.1	96	7.7	453	-3.0	5.1	220
May 01...	1100	12	1.4	.089	.068	748	10.9	102	7.5	371	13.5	11.7	150
Aug 02...	1000	.94	1.0	.018	.014	748	11.9	120	7.8	462	28.0	14.8	210

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

Part 2 of 3

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

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 01...	44.3	16.0	1.73	15.6	157	26.0	E.07	6.8	12.5	220	234	1	.31
Feb 06...	53.1	21.6	1.49	13.6	203	20.6	E.06	6.5	16.6	261	266	4	.29
May 01...	37.8	13.8	1.20	13.9	146	21.6	E.05	1.9	13.3	194	217	2	.30
Aug 02...	50.4	19.4	1.36	12.9	195	21.5	E.07	6.3	16.1	251	263	<1	E.07

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 3

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite 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)	Boron, water, fltrd, µg/L (01020)
Nov 01...	.024	.64	.05	.96	1.0	E.008	.010	.022	.4	<.1	.4	3.1	12
Feb 06...	.026	1.28	.11	1.6	1.7	E.007	.008	.023	1.0	<.1	1.0	1.5	10
May 01...	<.010	.62	.07	.92	.99	E.003	E.006	.016	.5	<.1	.5	2.7	9.6
Aug 02...	<.010	1.35	.03	--	--	<.010	E.005	E.005	.2	<.1	.2	1.3	10