

Water-Data Report 2006

01380100 BEAVER BROOK AT ROCKAWAY, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 40°54'08", long 74°30'05" referenced to North American Datum of 1983, Rockaway Borough, Morris County, NJ, Hydrologic Unit 02030103, at bridge on Gill Road in Rockaway, and 0.2 mi above mouth.

DRAINAGE AREA.--22.2 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1963-64, 1985-86, and 1998 to current year.

GAGE.--Staff gage.

REMARKS.--Flow regulated by Splitrock Reservoir (see 01379990).

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Date	Discharge, in ft³/s
Nov 17, 2005	135
Feb 1, 2006	60.0
May 30, 2006	24.0
Jun 21, 2006	12.4
Aug 1, 2006	5.86
Aug 9, 2006	2.55

01380100 BEAVER BROOK AT ROCKAWAY, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 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: Undeveloped Land Use Indicator and Low-Level Mercury Assessment special study site, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 6. The sample on Nov. 7 was for the low-level mercury assessment.

COOPERATION.--Physical measurements and samples for laboratory analyses on Nov. 7 were provided by personnel of 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	Sample type	Instan- taneous dis- charge, cfs (00061)	Turbdty	UV	UV	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH,	Specif.	Temper- ature, deg C (00020)
				white light, det ang 90+/-30 corrctd NTRU (63676)	absorb- ance, 254 nm, wat flt /cm (50624)	absorb- ance, 280 nm, wat flt /cm (61726)				water, unfltrd std units (00400)	conduc- tance, wat unf uS/cm 25 degC (00095)	
Nov												
07...	0930	Field Blank	--	--	--	--	--	--	--	--	--	--
07...	0945	Environmental	--	1.5	--	--	752	8.6	79	7.3	214	8.0
17...	1300	Environmental	135	100	.208	.163	746	8.1	73	6.8	167	6.0
Feb												
01...	1140	Environmental	60	1.7	.085	.065	746	12.1	92	7.0	193	4.0
May												
30...	1130	Environmental	24	4.9	.168	.132	753	6.6	77	6.9	194	27.0
Aug												
01...	1250	Environmental	5.9	6.6	.167	.131	739	7.3	94	7.4	221	--

01380100 BEAVER BROOK AT ROCKAWAY, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 4

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

Date	Temperature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	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)
Nov 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
07...	10.7	--	--	--	--	--	--	--	--	--	--	--	--
17...	9.6	39	9.73	3.47	1.32	14.1	23	27.4	E.07	9.3	9.57	89	104
Feb 01...	3.3	40	10.5	3.37	.89	18.5	24	33.0	E.06	7.8	11.5	101	101
May 30...	22.4	47	12.1	4.17	.84	16.8	30	31.3	.10	7.2	9.10	101	123
Aug 01...	26.9	56	14.5	4.84	.94	15.8	41	33.9	.11	8.6	7.95	113	127

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 4

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

Date	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	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)
Nov 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	82	.26	.035	<.06	.37	--	--	.011	.013	.18	4.2	<.1	4.1
Feb 01...	4	.18	.026	.23	.06	.41	.47	E.005	.005	.011	.6	<.1	.3
May 30...	<1	.34	.090	.19	.07	.53	.60	E.009	.011	.046	.7	<.1	.7
Aug 01...	7	.25	.020	.28	.04	.53	.57	.014	.015	.046	.3	<.1	.3

01380100 BEAVER BROOK AT ROCKAWAY, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER
2006

Part 4 of 4

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

Date	Organic carbon, water, flt'd, mg/L (00681)	BOD, water, unflt'd 5 day, 20 degC mg/L (00310)	Boron, water, flt'd, ug/L (01020)	Mercury
				water flt'd, low level, ng/L (50287)
Nov				
07...	--	--	--	<.04
07...	--	--	--	.52
17...	5.4	2.4	14	--
Feb				
01...	2.6	<1.0	9.5	--
May				
30...	3.6	E1.6	12	--
Aug				
01...	3.4	<1.0	15	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Date	Time	Temper- ature, water, deg C (00010)	Entero- cocci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, ECbroth water, MPN/ 100 mL (31615)
Jul					
12...	1005	24.4	130	10	80
19...	0958	25.8	410	2,000	16,000
26...	1037	23.2	210	10	300
Aug					
02...	0809	27.7	350	700	500
09...	0910	22.5	130	100	130