



Water-Data Report 2006

**01388720 BEAVER DAM BROOK AT RYERSON ROAD, AT LINCOLN PARK, NJ**

PASSAIC RIVER BASIN

LOCATION.--Lat 40°55'35", long 74°17'34" referenced to North American Datum of 1983, Lincoln Park Borough, Morris County, NJ, Hydrologic Unit 02030103, at bridge on Ryerson Road in Lincoln Park, 700 ft north of intersection of Ryerson Road and Park Avenue, and 0.3 mi upstream of mouth.

DRAINAGE AREA.--13.1 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>
Dec 8, 2005	17.0
Feb 6, 2006	39.0
May 9, 2006	6.38
Aug 23, 2006	0.92

## 01388720 BEAVER DAM BROOK AT RYERSON ROAD, AT LINCOLN PARK, 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: Urban Land Use Indicator, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 3.

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. Analysis of the split and concurrent replicate samples was performed by the Laboratory Branch of the U.S. EPA, Region II, Division of Environmental Science and Assessment.

**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 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 25 degC uS/cm (00095)	Temper- ature, air, deg C (00020)
<b>Dec</b> 08...	1420	Environmental	17	6.1	.239	.187	775	12.6	91	7.0	399	--
<b>Feb</b> 06...	1320	Environmental	39	4.1	.232	.177	751	11.8	93	7.0	370	3.0
<b>May</b> 09...	1130	Environmental	6.4	6.8	.220	.170	760	9.2	87	7.3	436	18.5
<b>09...</b>	1130	<i>Split Replicate</i>	--	--	--	--	--	--	--	--	--	--
<b>09...</b>	1131	<i>Concurrent Replicate</i>	--	--	--	--	--	--	--	--	--	--
<b>Aug</b> 23...	1110	Environmental	.92	10	.298	.230	756	5.2	57	6.9	511	25.0

## 01388720 BEAVER DAM BROOK AT RYERSON ROAD, AT LINCOLN PARK, NJ—Continued

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

Part 2 of 4

[Remark codes: &lt;, 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, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)
Dec 08...	2.7	110	32.7	7.99	1.71	30.3	63	61.8	E.07	14.2	25.2	214	234
Feb 06...	4.9	86	24.1	6.35	1.32	31.4	52	63.3	E.08	11.3	20.9	192	210
May 09...	12.7	120	35.3	8.84	1.56	32.3	82	70.3	.12	11.7	22.2	234	261
09...	--	120	33.0	9.00	1.90	31.0	79	69.0	<.05	--	24.0	217	270
09...	--	120	32.0	8.80	1.90	31.0	79	69.0	<.05	--	24.0	216	270
Aug 23...	19.5	130	37.0	9.23	2.57	43.9	98	83.0	.11	13.3	19.3		295

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

Part 3 of 4

[Remark codes: &lt;, 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 + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	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)	Ortho- phos- phate, water, unfltrd mg/L as P (70507)
Dec 08...	2	.42	--	.106	--	--	.53	--	.05	.95	1.0	E.004	--
Feb 06...	2	.33	--	.060	--	--	.57	--	.05	.90	.95	E.007	--
May 09...	3	.43	--	.111	--	--	.37	--	.07	.80	.87	.012	--
09...	<10	E1.1	E.41	.095	.097	.34	.390	.050	--	--	--	<.010	<.01
09...	<10	E.52	E.35	.090	.099	--	.380	<.050	--	--	--	<.010	<.01
Aug 23...	3	.48	--	.088	--	--	.42	--	.06	.91	.96	--	--

## 01388720 BEAVER DAM BROOK AT RYERSON ROAD, AT LINCOLN PARK, NJ—Continued

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

Part 4 of 4

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

Date	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)	Boron, water, fltrd, ug/L (01020)
<b>Dec</b>								
08...	.012	.036	.5	<.1	.5	4.4	<1.0	43
<b>Feb</b>								
06...	.010	.026	.3	<.1	.3	4.6	<1.0	35
<b>May</b>								
09...	.009	.037	.7	<.1	.7	4.4	<1.1	44
09...	<.050	<.050	--	--	--	5.5	--	50
09...	<.050	<.050	--	--	--	5.3	--	50
<b>Aug</b>								
23...	.006	.053	.7	<.1	.7	6.2	E2.1	55

**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)
<b>Jul</b>					
12...	1058	21.5	650	540	3,000
19...	1040	25.7	560	1,300	1,700
26...	1144	21.3	550	1,800	1,400
<b>Aug</b>					
02...	0954	24.4	390	700	2,400
09...	0959	20.5	490	460	3,000