



Water-Data Report 2007

**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 2006 TO SEPTEMBER 2007**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Dec 11, 2006	12.0
Feb 7, 2007	6.10
May 14, 2007	10.2
Aug 22, 2007	20.4
Aug 30, 2007	5.10

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). Cooperative Network Site Descriptor: Urban Land Use Indicator and Statewide Status, NJ Department of Environmental Protection Watershed Management Area 3.

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 5

[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 (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Dec 11...	1300	12	8.7	.200	.153	766	11.8	92	7.2	388	10.0	4.9	120
Feb 07...	1210	6.1	7.4	.179	.139	754	9.5	66	7.0	454	--	.7	140
May 14...	1200	10	4.7	.216	.165	763	9.3	88	7.0	412	17.5	12.9	120
Aug 30...	1050	5.1	9.4	.304	.235	757	7.1	79	7.1	448	21.0	19.6	130

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

Part 2 of 5

[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)
Dec 11...	32.9	8.65	1.46	27.4	78	54.6	E.07	14.0	22.4	211	220	1	.42
Feb 07...	38.2	10.3	1.57	36.2	91	71.0	.10	14.3	24.8	254	260	2	.34
May 14...	34.8	9.09	1.80	32.9	85	61.2	E.09	12.6	19.9	226	262	2	.48
Aug 30...	36.7	9.17	2.48	34.1	89	66.7	.11	13.9	19.3	239	254	2	.38

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

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

Part 3 of 5

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Particulate 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)	Arsenic water, fltrd, µg/L (01000)
Dec 11...	.112	.53	.05	.95	1.0	E.004	.008	.031	.4	<.1	.4	4.0	--
Feb 07...	.128	.72	.06	1.1	1.1	<.010	E.004	.029	.7	<.1	.7	3.4	.32
May 14...	.084	.52	.04	1.0	1.0	E.003	.010	.030	.4	<.1	.4	5.0	--
Aug 30...	.064	.70	.03	1.1	1.1	E.008	.012	.083	.4	<.1	.4	5.9	.52

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

Part 4 of 5

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

Date	Arsenic water, unfltrd µg/L (01002)	Barium, water, unfltrd recover- able, µg/L (01007)	Beryllium, water, unfltrd recover- able, µg/L (01012)	Boron, water, fltrd, µg/L (01020)	Boron, water, unfltrd recover- able, µg/L (01022)	Cadmium water, unfltrd µg/L (01027)	Chrom- ium, water, unfltrd recover- able, µg/L (01034)	Copper, water, unfltrd recover- able, µg/L (01042)	Iron, water, unfltrd recover- able, µg/L (01045)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, unfltrd recover- able, µg/L (01055)	Mercury water, unfltrd recover- able, µg/L (71900)	Nickel, water, unfltrd recover- able, µg/L (01067)
Dec 11...	--	--	--	44	--	--	--	--	--	--	--	--	--
Feb 07...	.54	35.0	E.04	41	40	E.02	.76	1.3	1,450	.19	197	<.010	1.40
May 14...	--	--	--	48	--	--	--	--	--	--	--	--	--
Aug 30...	.88	37.8	<.06	51	55	.02	.68	1.6	1,750	.26	134	<.010	3.9

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

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

Part 5 of 5

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

Date	Selen- ium, water, unfltrd µg/L (01147)	Silver, water, unfltrd recover- able, µg/L (01077)	Zinc, water, unfltrd recover- able, µg/L (01092)
<b>Dec</b> 11...	--	--	--
<b>Feb</b> 07...	.10	<.02	5
<b>May</b> 14...	--	--	--
<b>Aug</b> 30...	.15	<.02	3.6

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

Part 1 of 7

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	1-Naph- thol, water, fltrd 0.7u GF µg/L (49295)	2,6-Di- ethyl- aniline water, fltrd 0.7u GF µg/L (82660)	2Chloro -2',6'- diethyl acet- anilide wat flt µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl -6- methyl- aniline water, fltrd, µg/L (61620)	3,4-Di- chloro- aniline water, fltrd, µg/L (61625)	3,5-Di- chloro- aniline water, fltrd, µg/L (61627)	4- Chloro- 2methyl phenol, water, fltrd, µg/L (61633)	Aceto- chlor, water, fltrd, µg/L (49260)	Ala- chlor, water, fltrd, µg/L (46342)	alpha- Endo- sulfan, water, fltrd, µg/L (34362)	Atra- zine, water, fltrd, µg/L (39632)	Azin- phos- methyl oxon, water, fltrd, µg/L (61635)
<b>Dec</b> 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Feb</b> 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>May</b> 14...	<.09	<.006	<.006	<.014	<.010	<.004	<.012	<.005	<.006	<.005	<.011	E.006	<.04
<b>Aug</b> 30...	--	--	--	--	--	--	--	--	--	--	--	--	--

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

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

Part 2 of 7

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Azin-phos-methyl, water, fltrd 0.7u GF µg/L (82686)	Ben-flur-alin, water, fltrd 0.7u GF µg/L (82673)	Car-baryl, water, fltrd 0.7u GF µg/L (82680)	Carbo-furan, water, fltrd 0.7u GF µg/L (82674)	Chlor-pyrifos oxon, water, fltrd µg/L (61636)	Chlor-pyrifos water, fltrd µg/L (38933)	cis-Per-methrin water fltrd 0.7u GF µg/L (82687)	cis-Propi-cona-zole, water, fltrd µg/L (79846)	Cyana-zine, water, fltrd µg/L (04041)	Cyflu-thrin, water, fltrd µg/L (61585)	lambda-Cyhalo-thrin, water, fltrd µg/L (61595)	Cyper-methrin water, fltrd µg/L (61586)	DCPA, water, fltrd 0.7u GF µg/L (82682)
Dec 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 14...	<.080	<.010	E.008	<.020	<.06	<.005	<.010	<.013	<.018	<.053	<.014	<.046	<.003
Aug 30...	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Part 3 of 7

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Desulf-inyl-fipro-nil, water, fltrd µg/L (62170)	Diazi-non, water, fltrd µg/L (39572)	Dicro-tophos, water, fltrd µg/L (38454)	Diel-drin, water, fltrd µg/L (39381)	Dimeth-oate, water, fltrd 0.7u GF µg/L (82662)	Disulf-oton sulfone water, fltrd µg/L (61640)	Disul-foton water, fltrd 0.7u GF µg/L (82677)	Endo-sulfan sulfate water, fltrd µg/L (61590)	EPTC, water, fltrd 0.7u GF µg/L (82668)	Ethion monoxon water, fltrd µg/L (61644)	Ethion water, fltrd µg/L (82346)	Etho-prop, water, fltrd 0.7u GF µg/L (82672)	Fenami-phos sulfone water, fltrd µg/L (61645)
Dec 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 14...	<.012	<.005	<.08	<.009	<.006	<.01	<.02	<.022	<.002	<.02	<.016	<.012	<.053
Aug 30...	--	--	--	--	--	--	--	--	--	--	--	--	--

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

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

Part 4 of 7

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Fenami-phos sulf-oxide, water, fltrd, µg/L (61646)	Fenami-phos, water, fltrd, µg/L (61591)	Desulf-inyl-fipro-nil amide, wat flt µg/L (62169)	Fipro-nil sulfide, water, fltrd, µg/L (62167)	Fipro-nil sulfone, water, fltrd, µg/L (62168)	Fipro-nil, water, fltrd, µg/L (62166)	Fonofos, water, fltrd, µg/L (04095)	Hexa-zinone, water, fltrd, µg/L (04025)	Ipro-dione, water, fltrd, µg/L (61593)	Isofen-phos, water, fltrd, µg/L (61594)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)
Dec 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 14...	<.04	<.03	<.029	<.013	<.024	E.006	<.006	<.026	M	<.011	<.039	<.016	.176
Aug 30...	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Part 5 of 7

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Methi-althion, water, fltrd, µg/L (61598)	Methyl para-oxon, water, fltrd, µg/L (61664)	Methyl para-thion, water, fltrd, 0.7u GF µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metri-buzin, water, fltrd, µg/L (82630)	Moli-nate, water, fltrd, 0.7u GF µg/L (82671)	Myclo-butanil, water, fltrd, µg/L (61599)	Oxy-fluor-fen, water, fltrd, µg/L (61600)	Pendi-meth-alin, water, fltrd, 0.7u GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd, 0.7u GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)
Dec 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 14...	<.009	<.02	<.008	<.010	<.012	<.003	<.033	<.017	<.020	<.03	<.020	<.05	<.008
Aug 30...	--	--	--	--	--	--	--	--	--	--	--	--	--

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

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

Part 6 of 7

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Prometon, water, fltrd, µg/L (04037)	Prometryn, water, fltrd, µg/L (04036)	Propyzamide, water, fltrd, 0.7u GF µg/L (82676)	Propanil, water, fltrd, 0.7u GF µg/L (82679)	Propargite, water, fltrd, 0.7u GF µg/L (82685)	Simazine, water, fltrd, µg/L (04035)	Tebu-thiuron, water, fltrd, 0.7u GF µg/L (82670)	Tefluthrin, water, fltrd, µg/L (61606)	Terbufos, sulfone, water, fltrd, µg/L (61674)	Terbufos, water, fltrd, 0.7u GF µg/L (82675)	Terbutylazine, water, fltrd, µg/L (04022)	Thiocarb, water, fltrd, 0.7u GF µg/L (82681)	trans-Propiconazole, water, fltrd, µg/L (79847)
Dec 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
May 14...	.01	<.006	<.004	<.011	<.02	<.006	<.02	<.003	<.04	<.01	<.01	<.010	<.03
Aug 30...	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Part 7 of 7

[Remark codes: &lt;, less than; E, estimated; M, presence verified but not quantified.]

Date	Tribu-phos, water, fltrd, µg/L (61610)	Tri-flur-alin, water, fltrd, 0.7u GF µg/L (82661)	Di-chlor-vos, water, fltrd, µg/L (38775)
Dec 11...	--	--	--
Feb 07...	--	--	--
May 14...	<.035	E.005	<.01
Aug 30...	--	--	--