



Water-Data Report 2010

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, 0.3 mi upstream of mouth, and 1.6 mi northwest of Mountain View.

DRAINAGE AREA.--13.1 mi².

SURFACE-WATER RECORDS

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

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Date	Discharge, in ft³/s
Nov 9, 2009	8.72
Feb 3, 2010	16.1
May 24, 2010	10.7
Aug 17, 2010	0.89

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.--Cooperative Network Site Descriptor: Urban Land Use Indicator, and 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 2009 TO SEPTEMBER 2010

Part 1 of 5

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; cm, centimeter; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; <, less than; E, estimated]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per centimeter (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per centimeter (61726)	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
11-09-2009	1130	764	15.0	.283	.220	8.7	9.3	81	7.0
02-03-2010	1150	757	6.5	.146	.113	16	12.0	87	7.1
05-24-2010	1130	760	19.0	.240	.185	11	8.3	85	7.3
08-17-2010	0955	758	27.0	.290	.225	.89	4.8	54	7.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 5

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Date	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, milligrams per liter (70301)	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)
11-09-2009	437	9.3	9.9	277	E 238	134	4	38.0	9.44
02-03-2010	694	2.1	9.2	379	E 357	107	5	30.5	7.55
05-24-2010	448	16.1	12	256	242	131	6	37.8	8.90
08-17-2010	496	21.1	9.3	271	264	136	2	37.8	10.2

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 5

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Date	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (90410)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)
11-09-2009	1.97	33.4	91	.47	64.2	.09	E .03	15.3	20.4	.41
02-03-2010	1.51	79.6	70	.95	160	E .07	< .06	12.5	20.0	.30
05-24-2010	1.74	34.8	92	.70	70.5	.12	< .06	13.2	17.7	.46
08-17-2010	2.53	41.0	101	.34	81.3	.10	< .06	12.3	16.8	.41

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 5

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Date	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophos- phate, water, filtered, mg/L as P (00671)	Particulate nitrogen, suspended in water, mg/L (49570)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, mg/L (00602)	Total nitrogen, water, unfiltered, mg/L (00600)	Organic carbon, suspended sediment, total, mg/L (00689)
11-09-2009	.120	.26	E .009	.04	.017	.047	.67	.71	.43
02-03-2010	.109	.61	E .005	.07	.013	.036	.91	.97	.95
05-24-2010	.118	.46	--	.07	.019	.051	.92	.98	.68
08-17-2010	.096	.37	--	E .03	.026	.055	.78	E .81	.34

**WATER-QUALITY DATA
WATER YEAR OCTOBER
2009 TO SEPTEMBER
2010**

Part 5 of 5

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Date	Organic carbon, water, filtered, mg/L (00681)
11-09-2009	6.1
02-03-2010	3.2
05-24-2010	4.6
08-17-2010	5.9