



Water-Data Report 2007

01467005 NORTH BRANCH RANCOCAS CREEK AT IRON WORKS PARK, AT MOUNT HOLLY, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°59'35", long 74°46'53" referenced to North American Datum of 1983, Mount Holly Township, Burlington County, NJ, Hydrologic Unit 02040202, on right bank at Mill Dam in Iron Works and Mill Dam Park, 0.3 mi north of Saint Andrews Cemetery in Mount Holly, and 1.2 mi east of Clermont.

DRAINAGE AREA.--140 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1970, and 1998 to current year. Published as "at Pine Street" (station 01467006) 1998-99. Established as a continuous stage-only station September 2006.

GAGE.--Water stage recorder and crest-stage gage. Downstream staff gage for water-quality sampling. Gage datum is 0.00 ft above NAVD of 1988, from levels.

REMARKS.--Satellite stage telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.23 ft, Apr 16, 2007.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.23 ft, April 16 at 0515.

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

Date	Discharge, in ft³/s
Nov 6, 2006	148
Feb 13, 2007	102
May 30, 2007	58.9
Aug 9, 2007	27.6

01467005 NORTH BRANCH RANCOCAS CREEK AT IRON WORKS PARK, AT MOUNT HOLLY, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year. Published as "at Pine Street" (station 01467006) 1998-99.

REMARKS.--Site is at head of tide; all samples collected at low tide. 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: Watershed Integrator and Trace Element Assessment (303d) special study site, New Jersey Department of Environmental Protection Watershed Management Area 19. The sample on Sep 13 was for the trace element assessment (303d).

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. The sample on Sep 13 was provided by personnel of 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 4

[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)
Nov 06...	1250	148	3.5	.412	.324	767	11.7	97	6.2	117	16.5	7.7	20
Feb 13...	0900	102	4.8	.264	.212	769	14.1	103	6.4	141	-.5	2.4	22
May 30...	1100	59	8.8	.505	.401	766	8.4	93	6.1	132	23.0	20.8	20
Aug 09...	1000	28	9.6	.437	.350	759	7.2	89	6.2	118	27.0	25.6	19
Sep 13...	1030	--	5.3	--	--	766	7.0	79	6.5	185	20.3	20.7	--

01467005 NORTH BRANCH RANCOCAS CREEK AT IRON WORKS PARK, AT MOUNT HOLLY, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 4

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

Date	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)	Residue total non- filter- able, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 06...	5.73	1.37	1.70	11.9	8	11.8	<.10	6.1	20.5	65	85	7	.79
Feb 13...	6.35	1.46	1.65	14.8	8	16.5	E.07	6.6	24.9	79	93	5	.53
May 30...	5.74	1.37	1.81	14.9	6	14.8	E.07	5.3	22.1	72	87	10	.66
Aug 09...	5.46	1.31	1.99	11.5	7	13.3	E.05	5.9	17.4	63	87	10	.74
Sep 13...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 4

[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 06...	.308	.18	.07	.97	1.0	.022	.042	.113	.9	<.1	.9	8.2	22
Feb 13...	.310	.24	.07	.77	.84	.096	.131	.254	.8	<.1	.8	4.8	20
May 30...	.319	.28	.19	.94	1.1	.057	.078	.250	3.4	<.1	3.4	8.5	23
Aug 09...	.317	.34	.20	1.1	1.3	.035	.082	.217	3.4	<.1	3.4	6.5	23
Sep 13...	--	--	--	--	--	--	--	--	--	--	--	--	--

01467005 NORTH BRANCH RANOCAS CREEK AT IRON WORKS PARK, AT MOUNT HOLLY, NJ—Continued

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

Part 4 of 4

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

Date	Copper, water, fltred, µg/L (01040)	Copper, water, unfltred recover- able, µg/L (01042)
Nov 06...	--	--
Feb 13...	--	--
May 30...	--	--
Aug 09...	--	--
Sep 13...	1.0	1.3