

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 gages. Downstream staff gage for QW sampling. Gage datum is NAVD of 1988.

REMARKS.--Satellite stage telemetry at station. Operation of gates in dam significantly affect water level during periods of high flow.

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.78 ft, Aug 23 at 0345.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Date	Discharge, in ft³/s
Nov 24, 2008	84.7
Feb 9, 2009	216
Jun 3, 2009	38.3
Aug 20, 2009	41.4

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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. Cooperative Network Site Descriptor: Watershed Integrator, NJ Department of Environmental Protection Watershed Management Area 19.

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 2008 TO SEPTEMBER 2009

Part 1 of 3

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

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Instan- taneous dis- charge, ft ³ /s (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm @ 25 degC (00095)	Temper- ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)
Nov 24...	0920	768	--	.253	.201	85	13.2	97	6.4	126	3.0	4.5	86
Feb 09...	1110	773	8.0	.307	.239	215	12.7	98	6.1	102	4.2	6.2	61
Jun 03...	0950	762	20.0	.441	.352	38	8.4	91	6.3	98	19.3	12	66
Aug 20...	1230	762	30.5	.686	.547	41	7.6	92	6.2	84	25.4	12	65

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 3

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Date	Dis- solved solids, sum of consti- tuents, mg/L (70301)	Hard- ness, water, mg/L as CaCO3 (00900)	Sus- pended solids, water, unfltrd mg/L (00530)	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)	Total carbon, suspnd sedimnt total, mg/L (00694)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO2 (00955)
Nov 24...	E69	25	<1	6.86	1.85	2.64	9.02	E7	1.0	15.8	E.04	M	7.5
Feb 09...	E56	20	3	5.50	1.45	1.53	7.89	E4	.9	14.2	E.05	<.04	6.4
Jun 03...	E54	19	9	5.41	1.37	1.79	8.01	E7	3.1	13.6	E.07	<.04	5.6
Aug 20...	E44	16	7	4.50	1.14	1.64	7.04	2.8	3.6	11.9	E.04	<.04	6.1

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 3

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

Date	Ammonia + org-N,		Nitrate + nitrite,		Ortho-phosphate,	Particulate nitrogen,	Phosphorus,	Phosphorus,	Total nitrogen,	Total nitrogen,	Organic carbon,	Organic carbon,
	Sulfate water, fltrd, mg/L (00945)	water, fltrd, mg/L as N (00623)	water, fltrd, mg/L as N (00608)	water, fltrd, mg/L as N (00631)								
Nov 24...	19.4	.69	.431	.33	.026	.08	.053	.102	1.0	1.1	.99	5.0
Feb 09...	14.8	.72	.354	.23	.015	.05	.029	.128	.94	.99	.93	6.8
Jun 03...	12.4	.58	.320	.26	.010	.21	.011	.144	.84	1.1	3.12	7.1
Aug 20...	8.84	.53	.057	.22	.013	.20	.033	.148	.76	.96	3.60	10.4