

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°14'50", long 74°41'13" referenced to North American Datum of 1983, Hamilton Township, Mercer County, NJ, Hydrologic Unit 02040105, at bridge on County Route 533 (Quaker Bridge Road), 0.7 mi north of Mercerville, 2.1 mi upstream of Assunpink Creek, and 3.8 mi northwest of Robbinsville.

DRAINAGE AREA.--10.7 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

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

Date	Discharge, in ft³/s
Nov 14, 2006	64.6
Mar 8, 2007	8.45
May 17, 2007	16.4
Sep 10, 2007	0.78

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 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, New Jersey Department of Environmental Protection Watershed Management Area 11.

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. 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 2006 TO SEPTEMBER 2007

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- ic conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)
Nov												
14...	0830	Environmental	65	28	.468	.373	755	8.1	78	6.5	130	14.5
14...	0830	Split Replicate	--	--	--	--	--	--	--	--	--	--
14...	0831	Concurrent Replicate	--	--	--	--	--	--	--	--	--	--
Mar												
08...	0900	Environmental	8.4	36	.178	.139	763	12.5	88	6.3	250	-1.5
08...	0900	Split Replicate	--	--	--	--	--	--	--	--	--	--
08...	0901	Concurrent Replicate	--	--	--	--	--	--	--	--	--	--
May												
17...	1000	Environmental	16	10	.222	.171	761	6.9	75	6.4	218	18.0
Sep												
10...	0910	Environmental	.78	3.3	.035	.028	759	5.6	60	5.5	183	23.0
10...	0910	Split Replicate	--	--	--	--	--	--	--	--	--	--
10...	0911	Concurrent Replicate	--	--	--	--	--	--	--	--	--	--

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 4

[Remark codes: <, 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	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	Residue
							fixed end pt, lab, mg/L as CaCO3 (90410)					water, fltrd, mg/L (70301)	on evap. at 180degC wat flt mg/L (70300)
Nov													
14...	13.7	35	8.78	3.28	3.27	8.91	22	14.1	E.07	6.2	11.3	71	88
14...	--	35	8.50	3.30	3.70	8.50	21	14.0	.07	--	11.0	64	96
14...	--	35	8.50	3.30	3.70	8.40	21	15.0	.08	--	12.0	66	96
Mar													
08...	1.2	38	9.65	3.50	2.60	27.1	16	50.4	E.06	5.4	14.1	129	138
08...	--	33	8.20	3.00	2.20	23.0	15	53.0	.14	--	14.0	119	150
08...	--	36	9.00	3.20	2.50	25.0	14	53.0	.08	--	14.0	121	160
May													
17...	19.3	48	12.0	4.45	2.50	16.4	26	31.4	.10	3.9	15.9	106	147
Sep													
10...	19.1	41	9.53	4.24	3.08	14.3	14	26.4	E.05	8.4	13.4	103	118
10...	--	39	9.00	4.10	3.10	14.0	10	30.0	<.05	--	13.0	94	100
10...	--	40	9.20	4.20	3.10	14.0	13	30.0	<.05	--	13.0	97	100

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 4

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

Date	Residue total non- filter- able, mg/L (00530)	Ammonia		Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate		Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, 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)	Phos- phorus, water, fltrd, mg/L (00666)
		+ org-N, water, fltrd, mg/L as N (00623)	+ org-N, water, unfltrd mg/L as N (00625)			+ nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)						
Nov													
14...	17	.64	--	.079	--	.46	--	.15	1.1	1.2	.020	--	.042
14...	18	E.52	E.59	.057	.079	.450	<.050	--	--	--	.016	.02	<.050
14...	18	<.10	E.69	.062	.080	.440	<.050	--	--	--	.016	.02	<.050
Mar													
08...	25	.52	--	.208	--	1.49	--	.24	2.0	2.2	E.007	--	.009
08...	24	E.84	E.74	.210	.220	1.30	<.050	--	--	--	.010	--	<.050
08...	23	<.05	E.41	.210	.220	1.30	<.050	--	--	--	<.010	--	<.050
May													
17...	8	.70	--	.173	--	.81	--	.14	1.5	1.6	E.005	--	.025
Sep													
10...	2	.29	--	.086	--	3.46	--	.03	3.8	3.8	<.010	--	<.008
10...	<10	E.10	E.31	.072	.051	3.40	<.050	--	--	--	.035	--	<.050
10...	<10	E.33	E.32	.074	<.050	3.40	<.050	--	--	--	.029	--	<.050

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 4

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

Date	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						
14...	.118	1.6	<.1	1.6	9.3	24
14...	.110	--	--	--	11.0	20
14...	.100	--	--	--	12.0	20
Mar						
08...	.095	2.1	<.1	2.1	4.3	14
08...	.053	--	--	--	4.3	10
08...	.098	--	--	--	4.1	10
May						
17...	.059	1.0	<.1	1.0	5.3	23
Sep						
10...	.014	.3	<.1	.3	.9	19
10...	<.050	--	--	--	1.1	20
10...	<.050	--	--	--	1.2	20