



Water-Data Report 2009

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°14'49", long 74°41'12" 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 Assumpink 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 2008 TO SEPTEMBER 2009**

Date	Discharge, in ft ³ /s
Nov 19, 2008	6.60
Feb 4, 2009	7.97
Jun 3, 2009	14.9
Aug 26, 2009	17.1

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Urban Land Use Indicator and Statewide Status, 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 2008 TO SEPTEMBER 2009
Part 1 of 6
[Remark codes: <, less than; E, estimated.]

Date	Time	Medium name	Sample type	Baro-metric pressure, 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 discharge, ft ³ /s (00061)
Nov								
19...	1100	Surface water	Replicate	764	.5	.336	.266	6.6
19...	1100	QC sample - Surface water	Split Replicate	--	--	--	--	--
19...	1101	QC sample - Surface water	Concurrent Replicate	--	--	--	--	--
Feb								
04...	1011	QC sample - Artificial	Field Blank	--	--	--	--	--
04...	1050	Surface water	Regular	755	-3.0	.128	.099	8.0
Jun								
03...	0930	Surface water	Replicate	762	20.5	.265	.207	15
03...	0930	QC sample - Surface water	Split Replicate	--	--	--	--	--
03...	0931	QC sample - Surface water	Concurrent Replicate	--	--	--	--	--
Aug								
26...	1040	Surface water	Regular	762	26.5	.348	.273	17

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 6

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

Date	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, μS/cm @ 25 degC (00095)	Temper-ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd (NTRU) (63676)	Dis-solved solids, 180degC wat flt (70300)	Dis-solved solids, sum of constituents, mg/L (70301)	Hard-ness, water, mg/L as CaCO3 (00900)	Sus-pended solids, water, unfltrd (00530)	Cal-cium, water, fltrd, mg/L (00915)	Magnes-iun, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)
Nov													
19...	7.3	57	6.8	174	4.5	13	102	E91	43	6	10.6	3.96	3.64
19...	--	--	6.8	174	--	13	E75	88	44	<10	11.0	3.90	3.70
19...	--	--	6.8	174	--	13	E64	87	44	<10	11.0	4.00	3.60
Feb													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
04...	12.9	96	7.1	761	2.8	15	390	E384	64	16	16.2	5.66	2.96
Jun													
03...	6.3	67	6.5	108	18.9	34	86	E59	23	16	6.00	1.96	2.80
03...	--	--	6.5	108	--	34	73	57	23	27	5.90	1.90	2.60
03...	--	--	6.5	108	--	34	74	57	23	26	5.90	1.90	2.60
Aug													
26...	6.2	74	6.1	126	24.3	21	72	E66	28	6	7.01	2.62	2.73

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 6

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

Date	ANC, wat unf fixed (90410)	Total carbon, suspnd end pt, lab, sedimnt (00694)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Inor-ganic carbon, suspnd sedimnt (00688)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)
Nov												
19...	12.3	27	1.2	20.7	E.07	<.04	5.6	14.9	.59	--	.097	.58
19...	14.0	26	--	23.0	.08	--	--	14.0	E.53	1.6	.120	.610
19...	13.0	26	--	23.0	.08	--	--	14.0	E.51	E.92	.120	.600
Feb												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	114	21	1.2	201	E.05	<.04	6.2	19.9	.33	--	.069	1.36
Jun												
03...	10.1	16	2.3	16.4	E.06	<.04	1.8	7.61	.94	--	.330	.49
03...	9.90	15	--	18.0	<.05	--	--	7.2	E.76	1.2	.380	.510
03...	9.90	15	--	18.0	<.05	--	--	7.1	E.83	1.3	.390	.510
Aug												
26...	9.22	19	1.4	16.1	E.05	<.04	4.9	8.97	.55	--	.087	.48
												E.010

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 6

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

Date	Particulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, mg/L (00666)	Phos- phorus, water, mg/L (00665)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd, mg/L (00600)	Alum- inum, water, fltrd, µg/L (01106)	Barium, water, recover- able, µg/L (01007)	Beryll- ium, water, recover- able, µg/L (01012)	Cadmium water, unfltrd, µg/L (01027)	Chrom- ium, water, recover- able, µg/L (01034)	Copper, water, unfltrd, µg/L (01040)	Copper, water, recover- able, µg/L (01042)	Iron, water, fltrd, µg/L (01046)
Nov													
19...	.16	.025	.072	1.2	1.3	--	--	--	--	--	--	--	--
19...	--	<.050	.075	E1.1	2.2	--	--	--	--	--	--	--	--
19...	--	<.050	.080	E1.1	E1.5	--	--	--	--	--	--	--	--
Feb													
04...	--	--	--	--	--	--	--	--	--	--	<1.0	--	--
04...	.13	E.007	.047	1.7	1.8	--	91.7	.08	.10	.49	--	<4.0	--
Jun													
03...	.28	.072	.165	1.4	1.7	--	--	--	--	--	--	--	--
03...	--	.072	.180	1.3	1.7	--	--	--	--	--	--	--	--
03...	--	.072	.270	1.3	1.8	--	--	--	--	--	--	--	--
Aug													
26...	.23	.036	.082	1.0	1.3	180	45.3	.10	E.04	.52	--	E2.9	674

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 6

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

Date	Iron, water, unfltrd recover- able, µg/L (01045)	Lead, water, unfltrd recover- able, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, unfltrd recover- able, µg/L (01055)	Mercury water, unfltrd recover- able, µg/L (71890)	Mercury water, unfltrd recover- able, µg/L (71900)	Nickel, water, unfltrd recover- able, µg/L (01065)	Nickel, water, unfltrd recover- able, µg/L (01067)	Silver, water, unfltrd recover- able, µg/L (01077)	Zinc, water, unfltrd recover- able, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd, µg/L (01002)
Nov													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb													
04...	--	<.06	--	--	<.010	--	E.11	--	--	<2.0	--	<.06	--
04...	846	--	1.80	118	--	<.010	--	1.8	<.06	--	19.0	.48	.66
Jun													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug													
26...	1,010	--	1.75	52.1	--	<.010	--	1.6	<.06	--	11.1	1.7	2.1

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 6

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

Date	Boron, water, recover filtrd, µg/L (01020)	Boron, unfltrd water, -able, µg/L (01022)	Selen- ium, water, unfltrd µg/L (01147)	Organic carbon, suspd sedimnt total, mg/L (00689)	Organic carbon, water, filtrd, mg/L (00681)
Nov					
19...	--	--	--	1.23	7.7
19...	20	--	--	--	9.5
19...	20	--	--	--	9.7
Feb					
04...	--	--	--	--	--
04...	--	17	.20	1.22	3.4
Jun					
03...	--	--	--	2.27	7.0
03...	10	--	--	--	9.0
03...	10	--	--	--	8.3
Aug					
26...	--	23	.22	1.36	7.2