



Water-Data Report 2009

01465893 LITTLE CREEK AT CHAIRVILLE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°53'53", long 74°47'18" referenced to North American Datum of 1983, Medford Township, Burlington County, NJ, Hydrologic Unit 02040202, at bridge on State Route 70 in Chairville, 250 feet east of Skeet Road, and 4.7 mi upstream of mouth and Southwest Branch Rancocas Creek.

DRAINAGE AREA.--6.32 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 24, 2008	1.78
Feb 24, 2009	5.84
May 13, 2009	6.03
Aug 10, 2009	9.38

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WATER-QUALITY RECORDS

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

REMARKS.--Cooperative Network Site Descriptor: Undeveloped Land Use Indicator and Statewide Status, 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 6

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

Date	Time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Temperature, air, deg C (00020)	UV absorbance, 254 nm, wat flt (50624)	UV absorbance, 280 nm, wat flt (61726)	Instantaneous discharge, ft³/s (00061)
Nov 24...	1140	Surface water	Regular	765	9.0	.668	.508	1.8
Feb 24...	0935	QC sample - Artificial	Field Blank	--	--	--	--	--
24...	1030	Surface water	Regular	770	8.0	.479	.364	5.8
May 13...	1100	Surface water	Regular	771	21.5	.122	.948	6.0
Aug 10...	1150	QC sample - Artificial	Field Blank	--	--	--	--	--
10...	1200	Surface water	Regular	759	35.0	1.03	.804	9.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 6

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

Date	Dissolved 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 180degC corrctd NTRU (63676)	Dis-solved solids dried @ 180degC wat flt (70300)	Sus-pended solids, water, mg/L as CaCO3 (00900)	Magnes-iun, water, mg/L (00530)	Potas-sium, water, mg/L (00915)	Magnes-iun, water, mg/L (00925)	Potas-sium, water, mg/L (00935)	Sodium, water, mg/L (00930)
Nov 24...	13.2	95	4.0	130	1.9	1.2	97	11	1	2.13	1.47	1.02	11.8
Feb 24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	13.8	91	4.2	117	-1.1	1.8	78	11	2	2.25	1.33	1.09	12.0
May 13...	8.6	81	4.5	84	13.1	2.8	90	9	6	1.98	1.00	1.02	9.52
Aug 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	6.7	78	4.4	94	23.0	3.4	89	8	3	1.67	.947	.94	10.5

01465893 LITTLE CREEK AT CHAIRVILLE, NJ—Continued

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 end pt, lab, mg/L as CaCO ₃ (90410)	Total carbon, suspnd total, mg/L (00694)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Inor- ganic carbon, suspnd total, mg/L (00688)	Silica, water, fltrd, mg/L SiO ₂ (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Ortho- phosphate, water, fltrd, mg/L as P (00671)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, fltrd, mg/L as P (00666)
Nov 24...	--	.4	19.5	<.08	<.04	8.4	11.8	.43	.024	E.03	E.008	E.02	.009
Feb 24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	.6	17.7	<.08	<.04	6.0	9.60	.36	.022	.06	E.005	.05	.013
May 13...	<1.7	.9	15.3	<.08	<.04	4.7	5.04	.70	.066	.04	.013	.07	.031
Aug 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	<8	1.3	18.3	<.08	<.04	6.7	4.14	.54	.018	<.04	E.010	.09	.020

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 6

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

Date	Phos- phorus, water, unfiltrd mg/L as P (00665)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfiltrd mg/L (00600)	Barium, water, unfiltrd recover -able, μg/L (01007)	Beryll- ium, water, unfiltrd recover -able, μg/L (01012)	Cadmium water, unfiltrd recover -able, μg/L (01027)	Chrom- ium, water, unfiltrd recover -able, μg/L (01034)	Copper, water, unfiltrd recover -able, μg/L (01040)	Iron, water, unfiltrd recover -able, μg/L (01042)	Lead, water, unfiltrd recover -able, μg/L (01045)	Mangan- ese, water, unfiltrd recover -able, μg/L (01051)	
Nov 24...	.013	E.47	E.49	--	--	--	--	--	--	--	--	--
Feb 24...	--	--	--	--	--	--	<1.0	--	--	<.06	--	--
24...	.019	.42	.47	31.8	.06	.16	.44	--	<4.0	474	--	1.47
May 13...	.042	.74	.81	--	--	--	--	--	--	--	--	--
Aug 10...	--	--	--	--	--	--	<1.0	--	--	<.06	--	--
10...	.038	--	--	33.6	.04	.14	.77	--	<4.0	1,820	--	2.40
												14.5

01465893 LITTLE CREEK AT CHAIRVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 6

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

Date	Mercury water, filtrd, recover μg/L (71890)	Mercury water, unfiltrd -able, filtrd, recover μg/L (71900)	Nickel, water, filtrd, recover μg/L (01065)	Nickel, water, unfiltrd -able, recover μg/L (01067)	Silver, water, unfiltrd -able, recover μg/L (01077)	Zinc, water, filtrd, recover μg/L (01090)	Zinc, water, unfiltrd -able, recover μg/L (01092)	Arsenic water, filtrd, unfiltrd μg/L (01000)	Arsenic water, unfiltrd -able, recover μg/L (01002)	Boron, water, unfiltrd -able, unfiltrd μg/L (01022)	Selen- ium, water, unfiltrd μg/L (01147)	Organic carbon, susnd sedimnt total, mg/L (00689)	Organic carbon, water, filtrd, mg/L (00681)
Nov													
24...	--	--	--	--	--	--	--	--	--	--	--	.37	15.3
Feb													
24...	<.010	--	<.12	--	--	<2.0	--	<.06	--	--	--	--	--
24...	--	<.010	--	1.1	<.06	--	19.8	.54	.47	E12	E.09	.62	10.6
May													
13...	--	--	--	--	--	--	--	--	--	--	--	.86	21.6
Aug													
10...	E.006	--	<.12	--	--	<2.0	--	<.06	--	--	--	--	--
10...	--	E.009	--	1.3	<.06	--	15.5	.79	.95	19	.15	1.30	19.0