



Water-Data Report 2006

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 2005 TO SEPTEMBER 2006**

Date	Discharge, in ft³/s
Nov 21, 2005	6.15
Feb 9, 2006	9.11
May 23, 2006	3.11
Aug 14, 2006	1.17

01465893 LITTLE CREEK AT CHAIRVILLE, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 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). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Undeveloped Land Use Indicator and Low-Level Mercury Assessment special study site, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 19. The sample on Sep. 27, 2005 was for the low-level mercury assessment.

COOPERATION.--Samples were collected in cooperation with the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Sample type	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	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. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Mercury water fltrd, low level, ng/L (50287)
Sep											
27...	1330	Field Blank	--	--	--	--	--	--	--	--	.04
27...	1400	Environmental	1.8	762	7.1	79	5.9	111	23.5	20.5	2.30

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 3

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

Date	Time	Instan- taneous dis- charge, cfs (00061)	Turbidity 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. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)
Nov													
21...	0930	6.2	.9	.539	.415	760	10.3	83	4.6	91	10.0	5.9	9
Feb													
09...	1050	9.1	1.0	.505	.384	765	11.7	83	4.3	88	.0	1.5	9
May													
23...	1110	3.1	1.8	1.03	.807	762	8.7	82	4.7	77	14.0	12.7	8
Aug													
14...	1220	1.2	1.5	.266	.209	761	7.5	84	5.8	106	28.0	20.9	9

01465893 LITTLE CREEK AT CHAIRVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 3

[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 on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Nov 21...	1.78	1.10	1.25	9.56	<5	15.8	<.10	6.3	6.89	71	2	.34	.040
Feb 09...	1.80	1.05	1.04	8.77	<5	14.1	<.10	4.3	7.35	63	<1	.34	.061
May 23...	1.74	.965	1.05	9.20	<5	14.8	<.10	4.8	3.94	71	3	.60	.243
Aug 14...	1.69	1.25	1.37	15.5	<5	24.8	<.10	.8	4.78	63	2	.27	.043

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 3

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

Date	Nitrite + nitrate 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, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Boron, water, fltrd, ug/L (01020)
Nov 21...	.11	.02	.45	.47	E.007	.007	.012	.3	<.1	.3	11.0	<1.0	17
Feb 09...	.07	.03	.41	.44	E.008	.009	.012	.3	<.1	.3	10.5	<1.0	14
May 23...	E.05	.04	--	.69	.010	.023	.030	.6	<.1	.6	16.0	E1.3	16
Aug 14...	E.05	.07	--	.39	.042	.006	.022	.7	<.1	.7	4.9	<1.0	23

01465893 LITTLE CREEK AT CHAIRVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Temper- ature, water, deg C (00010)	Entero- cocci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, ECbroth MPN/ 100 mL (31615)
May					
03...	1130	14.1	10	<10	<20
10...	1015	15.2	20	20	<20
17...	1145	14.9	40	60	130
24...	1150	16.9	60	<10	<20
31...	1150	26.1	110	<10	80