



Water-Data Report 2007

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°38'05", long 74°41'12" referenced to North American Datum of 1983, Bedminster Township, Somerset County, NJ, Hydrologic Unit 02030105, on downstream left wingwall of bridge on Walsh Road at Burnt Mills, 0.2 mi upstream from mouth, and 4.4 mi southwest of Far Hills.

DRAINAGE AREA.--100 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1964, 1973, 1975-78, 1981 to current year. Annual maximum, water years 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 74 ft above NAVD of 1988, from topographic map.

REMARKS.--Radio stage telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 16.28 ft, Sep 16, 1999.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height, 90.0 ft (from high-water mark, elevation above NGVD of 1929), Jul 7, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.11 ft, Apr 15 at 2345.

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

Date	Discharge, in ft³/s
Nov 20, 2006	242
Feb 28, 2007	190
May 8, 2007	183
Aug 23, 2007	153

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1976 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: Watershed Integrator, NJ Department of Environmental Protection Watershed Management Area 8.

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 2006 TO SEPTEMBER 2007**

Part 1 of 3

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

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC μS/cm (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Nov 20...	0920	242	3.6	.182	.141	760	11.8	99	7.7	220	7.5	7.5	67
Feb 28...	1120	190	11	.148	.117	763	13.9	96	7.0	431	5.0	.1	81
May 08...	1050	183	2.0	.093	.071	765	12.8	122	8.3	263	15.0	13.1	78
Aug 23...	0910	153	7.3	.223	.172	764	9.3	96	7.6	230	--	16.8	69

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 3

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

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 20...	16.6	6.22	1.65	14.8	48	27.3	<.10	13.6	11.5	124	129	3	.24
Feb 28...	20.6	7.29	2.95	40.5	44	82.1	E.05	10.2	14.3	211	234	3	.56
May 08...	19.1	7.41	1.35	18.9	57	35.8	E.07	6.6	13.4	140	138	<1	.20
Aug 23...	17.3	6.32	1.94	15.6	53	26.9	E.07	13.6	12.1	129	152	2	.33

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 3

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Particulate 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, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)
Nov 20...	.018	.83	<.02	1.1	--	.021	.028	.038	.1	<.1	.1	3.8	23
Feb 28...	.041	1.51	.09	2.1	2.2	.042	.058	.086	.7	<.1	.7	5.9	20
May 08...	E.007	.71	.03	.91	.94	.022	.017	.020	.2	<.1	.2	2.6	24
Aug 23...	.030	.67	.05	1.0	1.1	.051	.062	.078	.3	<.1	.3	5.3	31