

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ

LOCATION.--Lat 40°38'04", long 74°41'12", Somerset County, Hydrologic Unit 02030105, at bridge on Burnt Mills Road in Burnt Mills, 1,400 ft upstream from mouth, and 2.4 mi southwest of Greater Cross Roads.

DRAINAGE AREA.--100 mi².

PERIOD OF RECORD.--Water years 1964, 1976 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Concentrations of ammonia in samples collected during November to December and August to September; orthophosphate in every sampling period except February to March; and nitrite, biochemical oxygen demand, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were determined by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| Date | Time | Instantaneous discharge, cfs (00061) | Turbidity white light, det ang 90+/-30 correctd 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 unfltrd uS/cm 25 degC (00095) | Temperature, air, deg C (00020) | Temperature, water, deg C (00010) | Hardness, water, mg/L as CaCO3 (00900) | |
|-----------|------|---|--|--|--|---|---|---|---|---|--|--|--|--|
| 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 unfltrd 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 at 105 deg. C, suspended, mg/L (00530) | Ammonia + org-N, water, fltrd, mg/L as N (00623) |
| Date | | Ammonia water, fltrd, mg/L as N (00608) | Nitrite + nitrate water, fltrd, mg/L as N (00631) | Nitrite water, fltrd, mg/L as N (00613) | Particulate nitrogen, susp, water, mg/L (49570) | Total nitrogen, water, fltrd, mg/L (00602) | Total nitrogen, water, unfltrd mg/L (00600) | Orthophosphate, water, fltrd, mg/L as P (00671) | Phosphorus, water, fltrd, mg/L (00666) | Phosphorus, water, unfltrd mg/L (00665) | Total carbon, suspnd sedimnt total, mg/L (00694) | Inorganic carbon, suspnd sedimnt total, mg/L (00688) | Organic carbon, suspnd sedimnt total, mg/L (00689) | Organic carbon, water, fltrd, mg/L (00681) |
| NOV 22... | 1230 | 99 | 1.2 | .103 | .080 | 761 | 15.9 | 142 | 8.7 | 261 | 14.0 | 10.2 | 87 | |
| FEB 03... | 1055 | 141 | 2.2 | .045 | .034 | 769 | 14.2 | 96 | 7.2 | 304 | 6.5 | .0 | 89 | |
| MAY 10... | 1300 | 108 | 1.7 | .084 | .065 | 764 | 17.3 | 182 | 9.3 | 281 | 22.0 | 18.0 | 88 | |
| AUG 04... | 1110 | 64 | 8.9 | .031 | .023 | 762 | 8.8 | 109 | 8.2 | 180 | 32.0 | 26.3 | 59 | |
| NOV 22... | | 21.0 | 8.35 | 2.20 | 17.1 | 60 | E.1 | 12.5 | 15.6 | 149 | 153 | 2 | .14 | |
| FEB 03... | | 21.8 | 8.37 | 1.58 | 20.9 | 54 | E.1 | 15.3 | 16.4 | 168 | 173 | -- | .12 | |
| MAY 10... | | 21.4 | 8.29 | 1.50 | 18.7 | 64 | E.1 | 8.2 | 13.7 | 152 | 174 | -- | .31 | |
| AUG 04... | | 14.4 | 5.62 | 1.26 | 10.5 | 45 | E.1 | 3.7 | 12.7 | 94 | 104 | 6 | .34 | |
| NOV 22... | | .010 | .93 | .006 | .03 | 1.1 | 1.1 | .045 | .041 | .050 | .2 | <.1 | .2 | 2.9 |
| FEB 03... | | <.040 | 1.89 | -- | .03 | 2.0 | 2.0 | .025 | .033 | .038 | .2 | <.1 | .2 | 1.5 |
| MAY 10... | | <.040 | .78 | -- | .06 | 1.1 | 1.1 | .022 | .029 | .041 | .4 | <.1 | .4 | 2.4 |
| AUG 04... | | .035 | .17 | -- | .07 | .51 | .58 | .018 | .022 | .043 | .7 | <.1 | .7 | 2.2 |

RARITAN RIVER BASIN

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

| Date | BOD, water, unfltrd 5 day, 20 degC mg/L (00310) | Boron, water, fltrd, ug/L (01020) | Sus- pended sedi- ment concen- tration mg/L (80154) | Sus- pended sedi- ment dis- charge, tons/d (80155) |
|--------------|---|---|--|---|
| NOV 22... | E1.1 | 33 | -- | -- |
| FEB 03... | -- | 23 | 1 | .38 |
| MAY 10... | E1.6 | 26 | 2 | .58 |
| AUG 04... | <1.0 | 19 | -- | -- |

Remark codes used in this table:

< -- Less than.

E -- Estimated.

WATER-COLUMN BACTERIA ANALYSES

Samples were collected synoptically over a 30-day period during the summer.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| Date | Time | Entero- cocci, m-E MF, water, col/ 100 mL (31649) | E coli, m-TEC MF, water, col/ 100 mL (31633) | Fecal coli- form, ECbroth water, MPN/ 100 mL (31615) |
|--------------|------|--|--|---|
| JUN 01... | 1015 | 50 | 100 | 170 |
| 08... | 1000 | 50 | 500 | 230 |
| 15... | 1020 | 390 | 200 | 500 |
| 22... | 1020 | 10 | 100 | 110 |
| 29... | 1000 | 50 | 200 | 170 |