

01411466 INDIAN BRANCH NEAR MALAGA, NJ

LOCATION.--Lat 39°35'27", long 75°03'35", Gloucester County, Hydrologic Unit 02040206, at bridge on U.S. Route 47 (Delsea Drive), 0.4 mi upstream of Malaga Lake, and 1.4 mi north of Malaga.

DRAINAGE AREA.--6.50 mi².

PERIOD OF RECORD.--Water years 1998 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.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 17.

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 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 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) | Ammonia water, fltrd, mg/L as N (00608) |
| Date | | 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) | BOD, water, unfltrd 5 day, 20 degC mg/L (00310) |
| NOV 15... | 0940 | 13 | .6 | 1.04 | .816 | 777 | 8.0 | 61 | 3.7 | 58 | 7.0 | 4.9 | 8 | |
| FEB 02... | 1250 | 3.6 | .9 | .326 | .257 | 771 | 11.0 | 79 | 4.2 | 56 | 7.5 | 2.1 | 7 | |
| JUN 02... | 1120 | 8.1 | .9 | .440 | .351 | 767 | 7.0 | 68 | 4.5 | 54 | 15.0 | 13.9 | 7 | |
| AUG 18... | 0920 | 3.1 | .7 | .254 | .208 | 761 | 5.9 | 61 | 5.5 | 44 | 26.0 | 17.5 | 7 | |
| NOV 15... | 1.30 | 1.06 | .86 | 3.31 | -- | 6.18 | <.1 | 7.3 | 4.3 | 65 | 5 | .48 | .027 | |
| FEB 02... | 1.26 | .990 | .90 | 3.50 | <2 | 6.31 | <.1 | 7.1 | 4.3 | 39 | -- | .27 | .052 | |
| JUN 02... | 1.13 | .939 | .94 | 4.24 | <2 | 7.37 | <.1 | 6.9 | 4.1 | 46 | -- | .36 | .060 | |
| AUG 18... | 1.17 | .900 | 1.10 | 4.12 | <5 | 7.43 | <.1 | 8.1 | 2.7 | 40 | 2 | .30 | .082 | |
| NOV 15... | .21 | .008 | .03 | .69 | .72 | <.010 | .004 | .007 | .2 | <.1 | .2 | 20.2 | E1.7 | |
| FEB 02... | .71 | -- | .04 | .98 | 1.0 | <.006 | <.004 | E.004 | .3 | <.1 | .3 | 5.9 | -- | |
| JUN 02... | .61 | -- | .04 | .98 | 1.0 | E.006 | .005 | .011 | .3 | <.1 | .3 | 7.1 | <1.0 | |
| AUG 18... | .54 | -- | <.02 | .84 | -- | E.008 | .011 | .013 | .3 | <.1 | .3 | 3.6 | <1.0 | |

MAURICE RIVER BASIN

01411466 INDIAN BRANCH NEAR MALAGA, NJ—Continued

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

| Date | 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 15... | 10 | -- | -- |
| FEB 02... | 11 | 1 | .01 |
| JUN 02... | 9.4 | 2 | .04 |
| AUG 18... | 7.9 | -- | -- |

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 02... | 1030 | <10 | <100 | 10 |
| 09... | 1055 | 10 | <100 | <20 |
| 16... | 1038 | 50 | <100 | <20 |
| 23... | 1055 | 70 | 100 | 110 |
| 30... | 1050 | 180 | 100 | 110 |

Remark codes used in this table:

< -- Less than.