

Water-Data Report 2006

01411466 INDIAN BRANCH NEAR MALAGA, NJ

MAURICE RIVER BASIN

LOCATION.--Lat 39°35'27", long 75°03'35" referenced to North American Datum of 1983, Franklin Township, Gloucester County, NJ, 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.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1957, 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Date	Discharge, in ft³/s
Dec 5, 2005	11.3
Feb 21, 2006	11.3
May 25, 2006	4.54
Aug 16, 2006	3.20

01411466 INDIAN BRANCH NEAR MALAGA, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 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, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 17.

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 2005 TO SEPTEMBER 2006**

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 (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Dec 05...	1140	11	.6	.712	.554	763	8.7	67	4.1	67	2.5	4.8	8
Feb 21...	0920	11	.6	.429	.336	759	11.2	82	3.4	65	4.0	2.6	7
May 25...	0950	4.5	.7	.357	.284	760	7.4	71	3.8	51	22.5	13.1	7
Aug 16...	0950	3.2	.9	.227	.187	762	5.6	58	4.9	49	28.5	17.3	7

**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)	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 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)
Dec 05...	1.38	1.11	.94	4.08	--	6.86	<.10	7.6	5.80	56	5	.45	.045
Feb 21...	1.25	1.06	.99	3.97	--	7.10	<.10	5.5	5.66	50	<1	.29	.059
May 25...	1.18	.987	.94	4.41	<5	7.48	<.10	6.3	4.54	37	1	.28	.046
Aug 16...	1.17	.975	1.00	4.36	<5	7.55	<.10	8.2	3.13	41	1	.24	.064

01411466 INDIAN BRANCH NEAR MALAGA, NJ—Continued

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)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd, mg/L (00600)	Ortho-phosphate, 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, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Boron, water, fltrd, ug/L (01020)
Dec 05...	.42	<.02	.87	--	E.004	.005	.006	.5	<.1	.4	14.5	<1.0	12
Feb 21...	.62	.03	.91	.94	.011	E.003	.008	.2	<.1	.2	7.8	E1.7	11
May 25...	.67	.03	.95	.98	--	.006	.008	.4	<.1	.4	5.9	<1.2	9.2
Aug 16...	.64	<.02	.88	--	E.010	.008	.012	.3	<.1	.3	3.0	<1.2	8.7

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Temperature, water, deg C (00010)	Enterococci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, ECbroth MPN/ 100 mL (31615)
May 31...	1120	19.9	20	20	<20
Jun 07...	1100	16.0	30	10	40
14...	1100	16.8	20	<10	40
21...	1100	19.5	30	30	20
28...	1110	21.4	320	610	500