



Water-Data Report 2010

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 State Route 47 (Delsea Drive), 0.4 mi upstream from 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 2009 TO SEPTEMBER 2010**

Date	Discharge, in ft³/s
Nov 19, 2009	6.64
Feb 18, 2010	14.8
Jun 1, 2010	7.86
Aug 25, 2010	4.13

01411466 INDIAN BRANCH NEAR MALAGA, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year.

PERIOD OF DAILY RECORD.--July-September 2007.

REMARKS.--Cooperative Network Site Descriptor: Undeveloped Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 17.

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 2009 TO SEPTEMBER 2010

Part 1 of 5

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; cm, centimeter; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; <, less than; E, estimated]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per centimeter (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per centimeter (61726)	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
11-19-2009	1100	763	14.0	.754	.591	6.6	5.2	47	4.2
02-18-2010	1100	750	7.5	.406	.317	15	10.9	80	3.8
06-01-2010	1100	751	26.0	.461	.371	7.9	--	--	4.8
08-25-2010	1150	757	28.0	.501	.403	4.1	3.9	43	5.7

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 5

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Date	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, milligrams per liter (70301)	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)
11-19-2009	57	10.6	.8	58	< 29	6.83	4	1.21	.928
02-18-2010	68	2.5	1.0	45	< 31	7.27	3	1.25	1.01
06-01-2010	66	20.1	1.0	55	< 32	7.49	2	1.36	.994
08-25-2010	51	19.9	1.0	47	E 27	7.40	< 1	1.28	1.02

01411466 INDIAN BRANCH NEAR MALAGA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 5

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Date	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (90410)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)
11-19-2009	.99	3.82	< 1.7	.67	8.10	< .08	< .06	8.1	3.04	.46
02-18-2010	.89	4.46	< 1.7	.22	9.98	< .08	< .06	5.0	4.82	.27
06-01-2010	1.31	5.93	< 1.7	.34	11.3	< .08	< .06	6.2	2.73	.70
08-25-2010	1.21	5.06	2.3	.46	9.35	< .08	< .06	4.9	2.65	.43

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 5

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Date	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophos- phate, water, filtered, mg/L as P (00671)	Particulate nitrogen, suspended in water, mg/L (49570)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, mg/L (00602)	Total nitrogen, water, unfiltered, mg/L (00600)	Organic carbon, suspended sediment, total, mg/L (00689)
11-19-2009	.038	.34	E .005	.05	E .006	E .007	.81	.85	.67
02-18-2010	E .009	.54	E .003	E .03	E .004	E .007	.81	E .84	.22
06-01-2010	.103	.31	--	.02	.020	.024	1.0	1.0	.42
08-25-2010	.063	E .03	--	E .03	.014	.022	E .46	E .49	.46

01411466 INDIAN BRANCH NEAR MALAGA, NJ—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER
2009 TO SEPTEMBER
2010**

Part 5 of 5

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Date	Organic carbon, water, filtered, mg/L (00681)
11-19-2009	13.9
02-18-2010	7.5
06-01-2010	13.9
08-25-2010	7.3