



Water-Data Report 2009

01398110 HOLLAND BROOK AT SOUTH BRANCH, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°33'11", long 74°42'02" referenced to North American Datum of 1983, Branchburg Township, Somerset County, NJ, Hydrologic Unit 02030105, at bridge on South Branch Road (County Route 567), 0.6 mi north of South Branch, 0.6 mi upstream of mouth, and 1.2 mi downstream of bridge on U.S. Route 202.

DRAINAGE AREA.--12.2 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976-78, 2007, 2009.

PERIOD OF DAILY RECORD.--

- DISSOLVED OXYGEN: September 2009.
- DISSOLVED OXYGEN, PERCENT OF SATURATION: September 2009.
- PH: September 2009.
- SPECIFIC CONDUCTANCE: September 2009.
- WATER TEMPERATURE: September 2009.

REMARKS.--

COOPERATIVE NETWORK SITE DESCRIPTOR: Watershed Reconnaissance, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 8. The accuracy of continuous water-quality data is routinely verified through inspections for fouling and calibration drift. The New Jersey Water Science Center requires that either constant or prorated adjustments be made to the continuous water-quality record when the difference between a sensor's response and a known value exceeds the following criteria: Water Temperature, 0.2 degrees Celsius (+ or -); Specific Conductance, the greater of 5 microsiemens/cm (+ or -) or 3% of the measured value; Dissolved Oxygen, the greater of 0.3 mg/L (+ or -) or 5% of the measured value; pH, 0.3 units (+ or -). If the difference between a sensor's response and a known value is within specified criteria, the data are considered to be reliable and are not adjusted.

COOPERATION.--Physical measurements and samples were collected in cooperation with the NJ Department of Environmental Protection. Determination of total suspended solids was performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory. Determination of chlorophyll-a was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 2

[Remark codes: <, less than.]

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, deg C (00020)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd std units (00400)	Specif- ic conduc- tance, wat unf μS/cm @ 25 degC (00095)	Temper- ature, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Sus- pended solids, water, unfltrd mg/L (00530)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Phos- phorus, water, unfltrd mg/L as P (00665)
Sep 22...	0900	761	22.0	9.4	95	7.5	381	15.6	3.4	<1	83	.83	.036

01398110 HOLLAND BROOK AT SOUTH BRANCH, NJ—Continued

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008
TO SEPTEMBER 2009**

Part 2 of 2

[Remark codes: <, less than.]

Date	Chloro- phyll a fluoro- metric method, uncorr, µg/L (32217)	Organic carbon, water, fltrd, mg/L (00681)
Sep		
22...	3.2	1.5

01398110 HOLLAND BROOK AT SOUTH BRANCH, NJ—Continued

HOURLY WATER-QUALITY-MONITOR VALUES
SEPTEMBER 18, 2009 TO SEPTEMBER 22, 2009

