



Water-Data Report 2009

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°32'26.04", long 74°30'49.71" referenced to North American Datum of 1983, Franklin Township, Somerset County, NJ, Hydrologic Unit 02030105, 1.3 mi southeast of South Bound Brook, 3.9 southwest of Piscataway, 4.0 mi downstream from the Millstone River.

DRAINAGE AREA.--874.00 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1943, 1966-81, 1987, 2000-02, 2009.

PERIOD OF DAILY RECORD.--

- DISSOLVED OXYGEN: May 1969 to March 1977, September 2009.
- DISSOLVED OXYGEN, PERCENT OF SATURATION: September 2009.
- pH: May 1969 to March 1977, September 2009.
- SPECIFIC CONDUCTANCE: May 1969 to March 1977, September 2009.
- WATER TEMPERATURE: May 1969 to March 1977, September 2009.

REMARKS.--Cooperative Network Site Descriptor: Watershed Reconnaissance, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 9. 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. Data from the following period(s) were adjusted - DISSOLVED OXYGEN: Sep 18-22, 2009; SPECIFIC CONDUCTANCE: Sep 18-22, 2009.

COOPERATION.--Physical measurements were collected in cooperation with the NJ Department of Environmental Protection. Determination of suspended residue 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**

[Remark codes: <, less than.]

Date	Time	Temperature, air, deg C (00020)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd std units (00400)	Specific conduc- tance, wat unf µS/cm @ 25 degC (00095)	Temperature, water, deg C (00010)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Suspended 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)	Chloro- phyll a fluoro- metric method, uncorr, µg/L (32217)	Organic carbon, water, fltrd, mg/L (00681)
Sep 22...	1100	23.0	9.6	7.5	435	19.1	2.6	<1	63	3.05	.387	1.00	3.3

01404100 Raritan River near South Bound Brook NJ—Continued

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

