



Water-Data Report 2006

**01389110 PASSAIC RIVER AT ROUTE 46, AT SINGAC, NJ**

PASSAIC RIVER BASIN

LOCATION.--Lat 40°53'32", long 74°15'57" referenced to North American Datum of 1983, Wayne Township, Passaic County, NJ, Hydrologic Unit 02030103, at bridge on U.S. Route 46, 400 ft downstream of Singac Brook, 1.4 mi west of Singac, and 0.6 mi downstream from Pompton River.

DRAINAGE AREA.--745 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1996-2006.

GAGE.--Reference point only.

REMARKS.--Published discharge is the sum of flows measured at 01389005 (Passaic River below Pompton River, at Two Bridges) and 01389100 (Signac Brook at Signac). Flow regulated by many reservoirs upstream and includes sewage effluent.

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

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Aug 22, 2006	231

01389110 PASSAIC RIVER AT ROUTE 46, AT SINGAC, NJ—Continued

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1974-1981, 1992, 1994, 2006.

REMARKS.--

COOPERATIVE NETWORK SITE DESCRIPTOR: Trace Element Assessment (303d) special study site.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the New Jersey Department of Environmental Protection.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, Temper- ature, deg C 25 degC (00095)	Temper- ature, deg C (00020)	Temper- ature, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Arsenic water, fltrd, ug/L (01000)
May 15...	1445	5.3	758	8.3	83	7.3	287	15.5	15.3	64	17.4	4.90	.44

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Arsenic water unfltrd ug/L (01002)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Chrom- ium, water, fltrd, ug/L (01030)	Chrom- ium, water, recover- able, ug/L (01034)	Copper, water, fltrd, ug/L (01040)	Copper, water, recover- able, ug/L (01042)	Lead, water, fltrd, ug/L (01049)	Lead, water, recover- able, ug/L (01051)	Mercury water, fltrd, ug/L (71890)	Mercury water, recover- able, ug/L (71900)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, recover- able, ug/L (01067)
May 15...	.62	<.04	E.03	.12	.47	2.7	3.2	.14	1.29	<.010	.011	.66	.92

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Selen- ium, water, fltrd, ug/L (01145)	Selen- ium, water, unfltrd ug/L (01147)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, recover- able, ug/L (01092)
May 15...	.13	.14	3.7	6