



Water-Data Report 2006

**01378350 TENAKILL BROOK AT CRESSKILL, NJ**

Lower Hudson Basin  
Hackensack-Passaic Subbasin

LOCATION.--Lat 40°56'30", long 73°57'50" referenced to North American Datum of 1983, Cresskill Borough, Bergen County, NJ, Hydrologic Unit 02030103.

DRAINAGE AREA.--3.01 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--June to August 2006.

REMARKS.--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 5% 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 -); Turbidity, the greater of 0.5 FNU (+ or -) or 5% of the measured value. 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: Aug. 4 to Aug. 11.

COOPERATIVE NETWORK SITE DESCRIPTOR: Watershed Reconnaissance and Trace Element Assessment (303d) special study site. The sample on June 5 was for the trace element assessment (303d).

COOPERATION.--Physical measurements and samples for laboratory analyses on June 5 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	Turbdty 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, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, 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)
Jun 05...	1330	4.5	760	3.0	32	7.2	623	23.5	17.9	200	66.5	9.02	.62

01378350 TENAKILL BROOK AT CRESSKILL, NJ—Continued

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

Part 2 of 3

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

Date	Arsenic	Cadmium	Cadmium	Chrom-	Chrom-	Copper,	Copper,	Lead,	Lead,	Mercury	Mercury	Nickel,	Nickel,
	water	water,	water,	ium,	ium,	water,							
	unfltrd	fltrd,	unfltrd	water,	water,	recover	unfltrd	recover	unfltrd	recover	unfltrd	recover	unfltrd
	ug/L												
	(01002)	(01025)	(01027)	(01030)	(01034)	(01040)	(01042)	(01049)	(01051)	(71890)	(71900)	(01065)	(01067)
Jun 05...	1.1	<.04	E.03	.43	.51	3.4	2.6	.11	1.60	<.010	<.010	1.03	1.27

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

Part 3 of 3

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

Date	Selen-	Selen-	Zinc,	Zinc,
	ium,	ium,	water,	water,
	water,	water,	water,	water,
	fltrd,	unfltrd	fltrd,	unfltrd
	ug/L	ug/L	ug/L	ug/L
	(01145)	(01147)	(01090)	(01092)
Jun 05...	.35	.37	4.1	7

01378350 TENAKILL BROOK AT CRESSKILL, NJ—Continued

WATERSHED RECONNAISSANCE STUDY  
HOURLY WATER-QUALITY-MONITOR VALUES  
AUGUST 4, 2006 to AUGUST 11, 2006

