



Water-Data Report 2007

01393350 WEST BRANCH ELIZABETH RIVER NEAR UNION, NJ

ELIZABETH RIVER BASIN

LOCATION.--Lat 40°41'32", long 74°14'37" referenced to North American Datum of 1983, Union Township, Union County, NJ, Hydrologic Unit 02030104, at bridge on Vauxhall Road, 330 ft northwest from Brookfall Avenue, 0.3 mi upstream from mouth, and 1.7 mi east from Union.

DRAINAGE AREA.--2.53 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999, 2005-07.

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 NJ Department of Environmental Protection.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 3

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

Date	Time	Sample type	Turbidity white light, 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- ic conduc- tance, wat unf µS/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)
Dec												
19...	0830	Field Blank	--	--	--	--	--	--	--	--	--	<.02
19...	0900	Environmental	1.8	770	6.1	48	7.6	615	6.0	6.0	210	66.7

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 3

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

Date	Magnes- ium, water, fltrd, mg/L (00925)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)	Beryll- ium, water, fltrd, µg/L (01010)	Beryll- ium, water, recover- able, µg/L (01012)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Chrom- ium, water, fltrd, µg/L (01030)	Chrom- ium, water, recover- able, µg/L (01034)	Copper, water, fltrd, µg/L (01040)	Copper, water, recover- able, µg/L (01042)	Lead, water, fltrd, µg/L (01049)	Lead, water, recover- able, µg/L (01051)
Dec													
19...	<.014	<.12	--	<.06	--	E.03	--	<.12	--	<.40	--	<.12	--
19...	9.39	.56	.86	<.06	<.06	.09	.06	1.2	4.7	14.2	13.3	.70	2.46

01393350 WEST BRANCH ELIZABETH RIVER NEAR UNION, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 3

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

Date	Mercury		Nickel,		Selen-	Selen-	Zinc,	Zinc,
	water, unfltrd water, recover fltrd, -able, µg/L (71890)	water, unfltrd water, recover fltrd, -able, µg/L (71900)	water, unfltrd water, recover fltrd, -able, µg/L (01065)	water, unfltrd water, recover fltrd, -able, µg/L (01067)	ium, water, fltrd, µg/L (01145)	ium, water, unfltrd µg/L (01147)	water, fltrd, µg/L (01090)	water, unfltrd recover -able, µg/L (01092)
Dec								
19...	<.010	--	<.06	--	<.08	--	<.60	--
19...	<.010	<.010	2.9	2.80	.14	.16	23.8	24