

## Water-Data Report 2006

**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 County, NJ, Hydrologic Unit 02030104.

DRAINAGE AREA.--2.53 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1998, 2005 to current year.

## 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: &lt;, less than; E, estimated.]

Date	Time	Sample type	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, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm (00095)	Temper- ature, air, deg C (25 degC)	Temper- ature, water, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L CaCO <sub>3</sub> (00900)	Calci- um water, mg/L (00915)
<b>May</b>													
12...	0915	Trip Blank	--	--	--	--	--	--	--	--	--	--	
12...	0930	Field Blank	--	--	--	--	--	--	--	--	--	<.02	
12...	1000	Environmental	7.3	752	6.1	62	7.3	286	17.5	15.8	62	20.1	

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

Part 2 of 3

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

Date	Magnes- ium, water, fltrd, mg/L (00925)	Arsenic water, fltrd, ug/L (01000)	Arsenic water, unfltrd ug/L (01002)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Chrom- ium, water, unfltrd ug/L (01030)	Chrom- ium, recover able, ug/L (01034)	Copper, water, unfltrd ug/L (01040)	Copper, water, recover able, ug/L (01042)	Lead, water, unfltrd ug/L (01049)	Lead, water, recover able, ug/L (01051)	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd ug/L (71900)
<b>May</b>													
12...	--	--	E.09	--	<.04	--	.16	--	<.6	--	<.06	--	<.010
12...	<.008	<.12	--	<.04	--	<.04	--	<.4	--	<.08	--	<.010	--
12...	2.82	1.2	1.4	E.02	.06	1.2	3.0	9.7	20.8	.37	6.53	<.010	E.008

**01393350 WEST BRANCH ELIZABETH RIVER NEAR UNION, NJ—Continued**

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

Part 3 of 3

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

Date	Nickel, water, unfltrd recover filtrd, ug/L (01065)	Selen- ium, water, -able, ug/L (01067)	Selen- ium, water, fltrd, ug/L (01145)	Silver, water, unfltrd recover filtrd, ug/L (01147)	Silver, water, unfltrd recover -able, ug/L (01075)	Zinc, water, filtrd, ug/L (01077)	Zinc, water, recover -able, ug/L (01090)	Zinc, water, unfltrd ug/L (01092)
<b>May</b>								
12...	--	<.16	--	<.08	--	<.16	--	<2
12...	<.06	--	<.08	--	<.2	--	1.4	--
12...	2.00	2.53	.14	.21	<.2	<.16	22.7	30