



Water-Data Report 2007

0140940950 BLUE ANCHOR BROOK AT ELM, NJ

MULLICA RIVER BASIN

LOCATION.--Lat 39°41'17", long 74°50'05" referenced to North American Datum of 1983, Winslow Township, Camden County, NJ, Hydrologic Unit 02040301, at bridge on U.S. Route 30 at Elm, at outlet of Winslow Lake, and 1.4 mi upstream from confluence with Pump Branch.

DRAINAGE AREA.--4.86 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow and miscellaneous measurements, water years 1991 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Discharge, in ft³/s
Nov 2, 2006	3.90
Dec 12, 2006	3.67
Feb 13, 2007	3.52
Mar 29, 2007	5.26
May 2, 2007	7.36
Aug 13, 2007	2.01
Aug 15, 2007	5.34
Sep 20, 2007	0.91

0140940950 BLUE ANCHOR BROOK AT ELM, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia-plus-organic nitrogen (00623), filtered nitrite-plus-nitrate nitrogen (00631), and total particulate nitrogen (49570). Cooperative Network Site Descriptor: Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 14.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 3

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

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC μ S/cm (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Nov 02...	1130	3.9	8.3	.293	.234	760	9.8	96	6.3	84	13.0	14.0	14
Feb 13...	1040	3.5	1.5	.109	.087	768	15.3	115	6.2	124	-2.0	3.8	18
May 02...	1110	7.4	2.7	.325	.261	756	10.4	111	6.9	102	18.5	18.3	19
Aug 15...	1050	5.3	2.3	.250	.199	762	8.0	99	7.0	84	28.0	26.7	11

WATER-QUALITY DATA

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 3

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

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 02...	3.04	1.48	1.79	7.30	13	11.3	<.10	2.8	5.03	42	51	4	.37
Feb 13...	4.08	2.00	1.83	11.2	9	18.4	<.10	1.7	7.94	57	59	2	.31
May 02...	4.36	1.90	1.78	10.2	14	14.4	<.10	2.1	6.20	51	74	1	.35
Aug 15...	1.89	1.46	1.16	9.35	11	15.3	<.10	.5	3.02	39	51	7	.42

0140940950 BLUE ANCHOR BROOK AT ELM, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 3

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)
Nov 02...	.057	.23	.09	.61	.69	<.010	.010	.043	.7	<.1	.7	5.3	16
Feb 13...	.050	1.05	.06	1.4	1.4	E.007	<.008	.016	.5	<.1	.5	2.0	15
May 02...	.018	.27	.07	.62	.69	<.010	.016	.031	.7	<.1	.7	5.4	17
Aug 15...	.042	<.06	.06	--	--	E.006	.034	.048	.4	<.1	.4	4.4	16