

**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 mi<sup>2</sup>.

**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 2011 TO SEPTEMBER 2012**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Nov 1, 2011	5.72
Nov 7, 2011	4.38
Jan 5, 2012	5.86
Feb 6, 2012	6.46
May 3, 2012	4.18
Jul 11, 2012	1.76
Aug 8, 2012	2.55

## 0140940950 BLUE ANCHOR BROOK AT ELM, NJ—Continued

## WATER-QUALITY RECORDS

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

REMARKS.--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 and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 1 of 5

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; <, less than]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per cm (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per cm (61726)	Discharge, instantaneous, ft <sup>3</sup> /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
11-01-2011	1020	765	12.0	0.200	0.159	5.7	11.2	96	6.8
02-06-2012	1110	758	7.0	.134	.106	6.5	12.4	96	6.8
05-03-2012	1100	763	15.6	.213	.170	4.2	8.5	85	6.8
08-08-2012	1100	760	28.0	.180	.144	2.6	5.9	75	6.4

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 2 of 5

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Date	Sample start time	Specific conductance, water, unfiltered, μS/cm at 25°C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Dissolved solids, dried at 180°C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, mg/L (70301)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)
11-01-2011	1020	102	8.8	3.6	53	48	15.9	6.0	3.52
02-06-2012	1110	106	4.6	3.5	54	49	15.7	< 1.0	3.55
05-03-2012	1100	95	15.6	2.1	58	48	16.7	< 1.0	3.61
08-08-2012	1100	83	27.7	5.3	43	37	10.6	3.0	1.78

0140940950 BLUE ANCHOR BROOK AT ELM, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 3 of 5

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Date	Sample start time	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint titration, laboratory, mg/L as CaCO <sub>3</sub> (90410)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO <sub>2</sub> (00955)
11-01-2011	1020	1.74	1.80	9.36	11.5	0.64	15.6	< .04	0.03	1.67
02-06-2012	1110	1.66	1.51	9.55	10.0	.67	16.5	< .04	< .03	.79
05-03-2012	1100	1.88	1.51	10.4	10.6	.66	16.0	< .04	< .03	1.45
08-08-2012	1100	1.48	1.18	9.81	6.44	.93	14.7	< .04	< .03	.99

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 4 of 5

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Date	Sample start time	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Particulate nitrogen, suspended in water, mg/L (49570)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, mg/L (00602)	Total nitrogen, water, unfiltered, mg/L (00600)
11-01-2011	1020	5.54	0.26	0.033	0.441	0.109	0.017	0.035	0.70	0.81
02-06-2012	1110	6.53	.22	.043	.636	.054	.007	.020	.85	.91
05-03-2012	1100	5.45	.36	.062	.240	.113	.015	.028	.60	.71
08-08-2012	1100	3.53	.42	.011	< .040	.112	.015	.041	< .46	< .57

**0140940950 BLUE ANCHOR BROOK AT ELM, NJ—Continued****WATER-QUALITY DATA  
WATER YEAR OCTOBER 2011 TO SEPTEMBER  
2012**

Part 5 of 5

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<b>Date</b>	<b>Sample start time</b>	<b>Organic carbon, suspended sediment, total, mg/L (00689)</b>	<b>Organic carbon, water, filtered, mg/L (00681)</b>
<b>11-01-2011</b>	<b>1020</b>	0.61	3.83
<b>02-06-2012</b>	<b>1110</b>	.67	2.64
<b>05-03-2012</b>	<b>1100</b>	.65	4.67
<b>08-08-2012</b>	<b>1100</b>	.93	4.52