



Water-Data Report 2006

**01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ**

MULLICA RIVER BASIN

LOCATION.--Lat 39°38'02", long 74°43'04" referenced to North American Datum of 1983, Hammonton Town, Atlantic County, NJ, Hydrologic Unit 02040301, at bridge on Chestnut Road in Wescoatville, 1.1 mi southwest of Nesco, 1.7 mi upstream from Norton Branch, and 3.8 mi southwest of Batsto.

DRAINAGE AREA.--9.57 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Miscellaneous measurements, water years 1974, 1978-81, 1983, 1985 to current year.

REVISED RECORDS.--WDR NJ-83-1:Drainage area.

GAGE.--Staff gage.

REMARKS.--Flow includes some sewage effluent.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Nov 30, 2005	87.9
Feb 22, 2006	16.3
May 31, 2006	6.86
Aug 9, 2006	5.18

## 01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 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). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Mixed Land Use Indicator, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 14.

COOPERATION.--Samples were collected in cooperation with the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, and total suspended residue were performed by the NJ Department of Health and Senior Services. Determinations of fecal coliform, E. coli, and enterococcus bacteria were performed by the NJDEP, Bureau of Marine Water Monitoring Laboratory.

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

Part 1 of 4

[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 (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Nov 30...	1310	88	62	.491	.397	758	6.0	59	5.4	81	14.5	13.8	17
Feb 22...	1210	16	2.9	.100	.076	766	10.9	84	6.2	148	4.0	4.6	27
May 31...	1130	6.9	2.6	.183	.146	767	6.7	73	6.4	134	28.5	20.0	20
Aug 09...	1130	5.2	6.3	.136	.111	765	7.8	86	6.9	178	28.0	20.6	23

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

Part 2 of 4

[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 at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 30...	3.68	1.90	4.27	5.08	<5	8.97	E.07	3.8	10.7	--	60	16	.41
Feb 22...	6.26	2.70	3.90	12.6	8	20.1	.10	6.5	14.4	82	85	2	.25
May 31...	4.65	1.98	3.54	14.1	16	21.3	E.10	<.2	8.00	67	89	2	.49
Aug 09...	5.58	2.11	5.06	21.0	23	26.6	.10	6.7	8.87	97	98	11	.46

## 01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ—Continued

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

Part 3 of 4

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Particulate 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)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
<b>Nov</b> <b>30...</b>	.032	.82	.24	1.2	1.5	.079	.10	.26	3.4	<.1	3.4	10.4	<1.0
<b>Feb</b> <b>22...</b>	.067	2.35	.05	2.6	2.6	.011	<.04	.08	.6	<.1	.6	2.6	<1.0
<b>May</b> <b>31...</b>	.080	.78	.05	1.3	1.3	.266	.29	.41	.6	<.1	.6	4.1	E1.8
<b>Aug</b> <b>09...</b>	.059	1.13	.09	1.6	1.7	.535	.60	.71	1.0	<.1	1.0	3.3	E1.4

**WATER-QUALITY  
DATA**

**WATER YEAR  
OCTOBER 2005 TO  
SEPTEMBER 2006**

Part 4 of 4

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

Date	Boron, water, fltrd, ug/L (01020)
<b>Nov</b> <b>30...</b>	24
<b>Feb</b> <b>22...</b>	32
<b>May</b> <b>31...</b>	48
<b>Aug</b> <b>09...</b>	82

## 01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ—Continued

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

Date	Time	Temper- ature, water, deg C (00010)	Entero-	E coli,	Fecal
			cocci, m-E MF, water, col/ 100 mL (31649)	m-TEC MF, water, col/ 100 mL (31633)	coli- form, ECbroth water, MPN/ 100 mL (31615)
<b>Jun</b>					
01...	0940	20.0	43	140	190
08...	1040	17.1	187	120	97
15...	1043	18.7	120	60	117
22...	0938	21.0	65	97	40
29...	1019	22.9	890	660	738