



Water-Data Report 2006

**01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD, NEAR CECIL, NJ**

GREAT EGG HARBOR RIVER BASIN

LOCATION.--Lat 39°38'40.2", long 74°59'09.2" referenced to North American Datum of 1983, Monroe Township, Gloucester County, NJ, Hydrologic Unit 02040302, at bridge on Blue Bell Road, 1.2 mi upstream of Timber Lakes and 2.0 mi west of Cecil.

DRAINAGE AREA.--4.51 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1990-96, 2001 to current year. Miscellaneous measurements 1998 to current year.

GAGE.--Staff gage.

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

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Dec 5, 2005	4.92
Feb 21, 2006	5.37
Feb 23, 2006	5.74
May 25, 2006	2.36
Jul 18, 2006	2.91
Aug 16, 2006	1.61
Sep 11, 2006	2.29

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD, NEAR CECIL, NJ—Continued

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1998 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 15.

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, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

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

Part 1 of 4

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

Date	Time	Instan- taneous dis- charge, cfs (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	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. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)
Dec 05...	0940	4.9	1.5	.476	.379	763	9.8	76	5.5	65	2.5	4.7	15
Feb 21...	1055	5.4	1.2	.189	.150	759	12.5	94	4.9	76	6.0	3.5	16
May 25...	1130	2.4	3.6	.257	.208	760	9.6	95	5.4	60	22.5	15.0	14
Aug 16...	1130	1.6	59	.183	.148	762	8.1	89	5.9	59	28.0	20.1	13

**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)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Dec 05...	3.12	1.75	1.90	4.66	6	8.14	E.06	7.2	6.46	40	60	2	.38
Feb 21...	3.27	1.83	1.65	5.46	6	10.0	<.10	5.0	7.17	42	51	2	.21
May 25...	2.78	1.67	1.59	4.88	8	7.89	<.10	4.8	3.43	--	46	3	.27
Aug 16...	2.78	1.56	1.59	4.01	9	6.77	<.10	7.4	3.63	37	41	3	.19

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD, NEAR CECIL, NJ—Continued

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

Part 3 of 4

[Remark codes: <, 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>Dec</b> <b>05...</b>	.050	.58	.03	.96	.99	E.008	.014	.023	.5	<.1	.5	8.5	<1.0
<b>Feb</b> <b>21...</b>	.054	.95	<.02	1.2	--	.011	.007	.012	<.1	<.1	<.1	3.6	<1.0
<b>May</b> <b>25...</b>	.036	.81	.19	1.1	1.3	--	.010	.019	2.9	<.1	2.9	3.5	E1.8
<b>Aug</b> <b>16...</b>	.045	.83	.03	1.0	1.1	E.009	E.003	.018	.6	<.1	.6	2.7	<1.0

**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>Dec</b> <b>05...</b>	12
<b>Feb</b> <b>21...</b>	12
<b>May</b> <b>25...</b>	10
<b>Aug</b> <b>16...</b>	11

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD, NEAR CECIL, NJ—Continued

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

[Remark codes: <, less than.]

<b>Date</b>	<b>Time</b>	<b>Temper- ature, water, deg C (00010)</b>	<b>Entero- cocci, m-E MF, water, col/ 100 mL (31649)</b>	<b>E coli, m-TEC MF, water, col/ 100 mL (31633)</b>	<b>Fecal coli- form, ECbroth water, MPN/ 100 mL (31615)</b>
<b>May</b>					
<b>31...</b>	1140	22.0	60	<10	170
<b>Jun</b>					
<b>07...</b>	1120	16.5	20	50	20
<b>14...</b>	1130	17.9	<10	80	20
<b>21...</b>	1145	22.3	110	160	170
<b>28...</b>	1130	22.0	2,200	3,100	1,700