

Water-Data Report 2012

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

GREAT EGG HARBOR RIVER BASIN

LOCATION.--Lat 39°38'40", long 74°59'09" 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 from 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. Miscellaneous and occasional low-flow measurements 1998 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 7, 2011	6.55
Nov 15, 2011	6.32
Jan 5, 2012	7.63
Feb 15, 2012	7.30
Jun 21, 2012	2.06
Aug 20, 2012	1.34
Aug 21, 2012	1.26

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

## WATER-QUALITY RECORDS

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

REMARKS.--Cooperative Network Site Descriptor: Mixed Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 15.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of 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)
11-15-2011	1230	754	21.5	0.287	0.228	6.3	7.7	73	6.3
02-15-2012	1030	765	8.0	.139	.110	7.3	10.7	86	6.2
06-21-2012	0900	759	31.0	.208	.168	2.1	6.9	75	6.4
08-21-2012	1120	760	25.0	.232	.187	1.3	7.2	78	6.2

**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)
11-15-2011	1230	73	13.0	3.6	43	42	16.4	8.0	3.44
02-15-2012	1030	74	5.9	1.7	61	43	16.6	5.0	3.51
06-21-2012	0900	68	19.1	7.4	52	42	16.8	5.0	3.49
08-21-2012	1120	67	18.9	5.4	49	42	17.6	< 1.0	3.72

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

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

Part 3 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	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)
11-15-2011	1230	1.90	1.99	5.75	6.48	0.63	10.7	< .04	< .03	6.65
02-15-2012	1030	1.91	1.73	5.84	4.56	.26	10.6	< .04	< .03	5.06
06-21-2012	0900	1.96	1.64	4.88	8.34	.86	8.47	.05	.03	7.06
08-21-2012	1120	2.02	1.75	4.31	6.90	.51	7.44	< .04	< .03	9.01

**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)
11-15-2011	1230	5.30	0.24	0.015	0.635	0.026	0.011	0.025	0.88	0.90
02-15-2012	1030	6.78	.13	.020	1.11	.037	.006	.014	1.2	1.3
06-21-2012	0900	4.04	.21	.029	1.13	.052	.011	.033	1.3	1.4
08-21-2012	1120	4.23	.21	< .010	1.31	.052	.013	.025	1.5	1.6

**01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD, NEAR CECIL, NJ—Continued****WATER-QUALITY DATA  
WATER YEAR OCTOBER 2011 TO SEPTEMBER  
2012**

Part 5 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]

<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>11-15-2011</b>	<b>1230</b>	0.63	5.31
<b>02-15-2012</b>	<b>1030</b>	.26	2.38
<b>06-21-2012</b>	<b>0900</b>	.82	3.30
<b>08-21-2012</b>	<b>1120</b>	.51	3.79