



Water-Data Report 2006

01464515 DOCTORS CREEK AT ALLENTOWN, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°10'37", long 74°35'56" referenced to North American Datum of 1983, Allentown Borough, Monmouth County, NJ, Hydrologic Unit 02040201, at bridge on Breza Road in Allentown, and 0.8 mi downstream from Conines Mill Pond dam.

DRAINAGE AREA.--17.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Annual maximum and occasional low-flow measurements, water years 1968-95. Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

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

Date	Discharge, in ft³/s
Dec 1, 2005	102
Feb 15, 2006	27.6
May 18, 2006	25.0
Aug 10, 2006	3.38

01464515 DOCTORS CREEK AT ALLENTOWN, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 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: Agricultural Land Use Indicator, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 20.

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	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)
Dec 01...	0940	102	85	.276	.230	760	10.2	90	6.2	133	10.0	9.9	33
Feb 15...	1040	28	10	.060	.048	768	13.5	99	6.2	242	14.5	2.8	54
May 18...	1100	25	8.6	.192	.155	747	8.3	88	6.9	189	19.0	17.3	48
Aug 10...	1140	3.4	8.2	.132	.102	760	3.6	43	6.9	260	--	24.2	64

**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)
Dec 01...	8.11	3.18	4.25	7.96	14	17.4	.13	7.4	13.6	74	80	32	.45
Feb 15...	12.7	5.33	3.04	20.0	14	39.7	.15	8.8	22.1	129	142	4	.49
May 18...	11.7	4.54	2.84	12.6	22	27.4	.20	5.1	14.4	95	110	6	.85
Aug 10...	16.7	5.34	4.53	15.7	39	34.2	.25	9.2	14.5	129	145	7	2.6

01464515 DOCTORS CREEK AT ALLENTOWN, 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)
Dec 01...	.139	.80	.14	1.3	1.4	.011	.016	.26	1.1	<.1	1.1	9.1	E2.0
Feb 15...	.330	1.91	.08	2.4	2.5	E.006	.004	.054	.7	<.1	.7	1.7	<1.0
May 18...	.496	.47	.10	1.3	1.4	E.010	.007	.081	.7	<.1	.7	4.1	E1.8
Aug 10...	2.10	.53	.19	3.1	3.3	E.010	.019	.103	1.3	<.1	1.3	4.5	E2.1

**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)
Dec 01...	21
Feb 15...	22
May 18...	22
Aug 10...	42

01464515 DOCTORS CREEK AT ALLENTOWN, NJ—Continued

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

Date	Time	Temper- ature, water, deg C (00010)	Entero- cocci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, ECbroth water, MPN/ 100 mL (31615)
Jun					
15...	1030	18.2	70	50	80
22...	1012	24.1	110	300	130
Jul					
13...	1006	25.7	70	50	20
20...	1020	26.7	220	200	300
27...	1050	25.9	100	10	70