



Water-Data Report 2009

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 Millpond 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 2008 TO SEPTEMBER 2009**

Date	Discharge, in ft³/s
Nov 12, 2008	13.1
Mar 5, 2009	14.0
May 19, 2009	15.0
May 20, 2009	33.9
Sep 2, 2009	7.35

01464515 DOCTORS CREEK AT ALLENTOWN, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

REMARKS.--Cooperative Network Site Descriptor: Agricultural Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 20.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 3

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

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Instan- taneous dis- charge, ft ³ /s (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm @ 25 degC (00095)	Temper- ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)
Nov 12...	1210	765	12.0	.132	.103	13	9.6	84	6.8	237	9.5	19	140
Mar 05...	1000	772	5.0	.054	.041	14	--	--	--	260	4.0	14	156
May 19...	1000	774	15.0	.144	.114	15	8.2	82	6.9	221	15.7	8.7	134
Sep 02...	1030	768	24.5	.186	.150	7.3	6.9	78	6.7	222	21.1	17	126

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 3

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

Date	Dis- solved solids, sum of consti- tuents, mg/L (70301)	Hard- ness, water, mg/L as CaCO3 (00900)	Sus- pended solids, water, unfltrd mg/L (00530)	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)	Total carbon, suspnd sedimnt total, mg/L (00694)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO2 (00955)
Nov 12...	E124	63	18	16.2	5.45	5.52	14.6	29	.8	32.5	.17	<.04	8.7
Mar 05...	135	57	6	14.0	5.36	3.44	21.3	15	1.9	44.6	.13	<.04	8.3
May 19...	E113	56	5	13.8	5.15	3.10	15.5	25	.8	31.7	.17	<.04	6.2
Sep 02...	E111	56	27	14.1	5.16	4.37	14.7	30	.5	32.0	.20	<.04	7.4

01464515 DOCTORS CREEK AT ALLENTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 3

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

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia	Ammonia	Nitrate	Ortho-	Partic-	Phos-	Phos-	Total	Total	Organic	Organic
		+ org-N, water, fltrd, mg/L as N (00623)	water, fltrd, mg/L as N (00608)	+ nitrite water, fltrd, mg/L as N (00631)	phos- phate, water, fltrd, mg/L as P (00671)	ulate nitro- gen, susp, water, mg/L (49570)	phorus, water, fltrd, mg/L as P (00666)	phorus, water, unfltrd mg/L as P (00665)	nitro- gen, water, fltrd, mg/L (00602)	nitro- gen, water, unfltrd mg/L (00600)	carbon suspnd sedimnt total, mg/L (00689)	carbon, water, fltrd, mg/L (00681)
Nov 12...	20.5	1.1	.772	.39	E.005	.11	.010	.167	1.5	1.6	.84	4.0
Mar 05...	24.3	1.0	.072	1.07	.010	.30	E.007	.080	2.1	2.4	1.88	2.2
May 19...	19.0	1.0	.620	.62	E.005	.13	.014	.047	1.6	1.8	.84	3.7
Sep 02...	11.9	1.2	.757	.54	E.006	.08	.030	.171	1.7	1.8	.46	4.2