



Water-Data Report 2007

01477110 RACCOON CREEK AT MULlica HILL, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°44'10", long 75°13'29" referenced to North American Datum of 1983, Harrison Township, Gloucester County, NJ, Hydrologic Unit 02040202, at bridge on State Routes 45 and 77 in Mullica Hill, 1,200 ft downstream of Mullica Hill Pond, and 5.5 mi west of Pitman.

DRAINAGE AREA.--15.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Annual maximum, water years 1940, 1978-1995, 1999. Occasional low-flow measurements, water years 2002-06. Miscellaneous measurements, water year 2007.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Discharge, in ft ³ /s
Mar 1, 2007	24.4
May 24, 2007	15.7

01477110 RACCOON CREEK AT MULLICA HILL, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--November 2006 to August 2007.

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). Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 18.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, suspended residue, ammonia-plus-organic nitrogen in bed sediment, and phosphorus in bed sediment were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 5

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

Date	Time	Turbdty white light, det ang 90+/-30 dis- charge, corrctd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg (61726)	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, percent of sat- uration (00300)	pH, water, unfltrd field, std units	Specif- ic conduc- tance, μS/cm (00400)	Temper- ature, wat unf μS/cm (25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)
Nov 02...	1000	--	4.1	.182	.142	762	9.1	--	7.8	--	12.3	11.8	62
Mar 01...	0900	24	4.8	.080	.063	766	12.4	94	7.3	304	7.6	3.5	59
May 24...	0900	17	4.5	.165	.130	774	7.1	75	6.8	208	21.0	17.7	61
Aug 09...	1000	--	6.2	.172	.139	758	3.8	48	6.9	240	23.4	26.8	74

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 5

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

Date	Calcium water, filtrd, mg/L (00915)	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	ANC, fixed wat unf lab, mg/L as CaCO ₃ (90410)	Chlor- ide, water, filtrd, mg/L (00940)	Fluor- ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L (00955)	Sulfate water, filtrd, mg/L (00945)	Residue water, filtrd, sum of consti- tuents mg/L (70301)	Residue on evap. wat flt mg/L (70300)	Residue total at 180degC mg/L (00530)	Ammonia + org-N, water, filtrd, mg/L as N (00623)
Nov 02...	18.0	4.08	4.30	7.90	29	18.8	.13	8.1	23.6	108	121	4	.29
Mar 01...	16.9	4.13	3.71	27.1	31	40.2	.24	7.5	26.5	154	156	5	.31
May 24...	17.2	4.28	3.34	8.94	27	20.2	.12	6.8	25.0	109	117	4	.36
Aug 09...	22.4	4.53	3.92	9.85	48	21.7	.18	8.6	21.1	123	153	5	.33

01477110 RACCOON CREEK AT MULLICA HILL, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 5

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

Date	Nitrate + Ammonia water, fltrd, mg/L as N (00608)	Partic- ulate nitrite water water, fltrd, mg/L as N (00631)	Total nitro- gen, susp, water, fltrd, mg/L (49570)	Total nitro- gen, water, unfltrd mg/L (00602)	Ortho- phosphate, 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 water, fltrd, mg/L (00681)	Arsenic water, fltrd, μg/L (01000)	
Nov 02...	.038	1.25	.12	1.5	1.7	E.002	.013	.057	1.1	<.1	1.1	4.3	--
Mar 01...	.053	2.10	.08	2.4	2.5	E.005	E.005	.058	.6	<.1	.6	2.1	.41
May 24...	.037	1.47	.07	1.8	1.9	E.005	.022	.052	.5	<.1	.5	3.8	--
Aug 09...	.107	.38	.06	.71	.77	E.006	.025	.074	.4	<.1	.4	3.4	1.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 5

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

Date	Beryll-			Chrom-			Mangan-						
	Arsenic water, unfltrd μg/L (01002)	Barium, water, unfltrd μg/L (01007)	Boron, water, unfltrd μg/L (01012)	Boron, water, unfltrd μg/L (01020)	Cadmium water, unfltrd μg/L (01022)	Iron, water, unfltrd μg/L (01027)	Copper, water, unfltrd μg/L (01034)	Iron, water, unfltrd μg/L (01042)	Lead, water, unfltrd μg/L (01046)	Manganese, water, unfltrd μg/L (01051)	Mercury water, unfltrd μg/L (71900)		
Nov 02...	--	--	--	28	--	--	--	--	268	--	--	--	
Mar 01...	.66	58.8	E.06	69	69	.12	<.60	E.7	--	1,000	.32	54.5	
May 24...	--	--	--	26	--	--	--	--	--	--	--	--	
Aug 09...	1.8	69.2	<.06	35	30	E.01	<.60	<1.2	--	1,480	.20	53.4	<.010

01477110 RACCOON CREEK AT MULLICA HILL, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 5

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

Date	Nickel, water, unfltrd recover -able, µg/L (01067)	Selen- ium, unfltrd water, unfltrd recover -able, µg/L (01147)	Silver, water, unfltrd recover -able, µg/L (01077)	Zinc, water, unfltrd recover -able, µg/L (01092)
Nov 02...	--	--	--	--
Mar 01...	1.65	.17	<.02	8
May 24...	--	--	--	--
Aug 09...	.91	.12	<.02	E1.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 4

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

Date	Time	Ammonia		Inor- ganic		Chrom-						Lead, bed sedimnt recover	
		pH bed sedimnt std	org-N, bed sedimnt total, mg/kg as N units (70310)	Phos- phorus, bed sedimnt total, mg/kg (00626)	Total carbon, bed sedimnt total, mg/kg (00668)	Inor- ganic carbon, bed sedimnt total, g/kg (00693)	Arsenic bed sedimnt recover	Cadmium bed sedimnt recover	Ium, bed sedimnt recover	Cobalt bed sedimnt recover	Copper, bed sedimnt recover	Iron, bed sedimnt total,	
Aug 09...	1000	6.79	80	3,500	3.2	1.1	3.6	.140	28	1.6	6	17,000	16

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 4

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

Date	Mangan- ese, bed sedimnt recover -able, ug/g (01053)		Sele- nium, bed sedimnt recover -able, ug/g (71921)		1,2-Di- methyl- naphth- alene, bed sedimnt recover -able, ug/g (01068)		1,6-Di- methyl- naphth- alene, bed sedimnt recover -able, ug/g (64848)		1Methyl -9H- fluor- ene, bed sed		1- Methyl- phenan- threne, bed sed		236Tri- methyl- pyrene, bed sed		2,6-Di- methyl- naphth- alene, bed sed		2-Ethyl naphth- alene, bed sed	
	Mercury bed sedimnt recover -able, ug/g (01068)	Nickel, bed sedimnt recover -able, ug/g (64848)	Zinc, bed sedimnt recover -able, ug/g (49403)	methyl- naphth- alene, bed sedimnt recover -able, ug/kg (49404)	methyl- naphth- alene, bed sedimnt recover -able, ug/kg (49398)	-9H- fluor- ene, bed sed	Methyl- phenan- threne, bed sed	Methyl- pyrene, bed sed	methyl- naphth- alene, bed sed	methyl- naphth- alene, bed sed	wsv nat	<2 mm, bed sed	<2 mm, bed sed	<2 mm, bed sed	<2 mm, bed sed	<2 mm, bed sed	<2 mm, bed sed	
Aug 09...	46	<.007	5.2	<.1	38	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	<52	

01477110 RACCOON CREEK AT MULLICA HILL, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 4

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

Date	2-Methyl-anthra-cene, bed sed <2 mm, bs ug/kg (49435)	4H-Cyclo-lopenta-fluor-ene, phenan-threne, <2 mm, wsv nat ug/kg (49411)	9H-Fluor-ene, bed sed ug/kg (49399)	Ace-naphth-ylene, bed sed ug/kg (49429)	Ace-naphth-ylene, bed sed ug/kg (49428)	Antha-cene, <2 mm, wsv nat field, <2 mm ug/kg (49434)	Benz-o-[a]-anthra-cene, bed sed ug/kg (49436)	Benz-o-[a]-pyrene, bed sed ug/kg (49438)	Benz-o-[b]-fluor-anthene, bed sed ug/kg (49458)	Benz-o-[ghi]-peryl-ene, bed sed ug/kg (49408)	Benz-o-[k]-fluor-anthene, bed sed ug/kg (49397)	Chry-sene, bed sed ug/kg (49450)	Dibenzo-[a,h]-anthra-cene, bed sed ug/kg (49461)
Aug 09...	<52	<52	<52	<52	<52	<52	E42	54	100	<52	E40	56	<52

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 4

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

Date	Fluor-anthene, bed sed <2 mm wsv nat field, <2 mm ug/kg (49466)	Indeno-[1,2,3-cd]pyrene, bed sed bed sed wsv nat field, <2 mm ug/kg (49390)	Iso-phorone, bed sed <2 mm wsv nat field, <2 mm ug/kg (49400)	Naphth-alene, bed sed bed sed wsv nat wsv nat sedimnt ug/kg (49402)	p-PCBs, bed bed wsv nat wsv nat sedimnt ug/kg (39519)	Phenan-Cresol, bed sed <2 mm, wsv nat field, ug/kg (49451)	Phenan-threne, bed sed <2 mm, wsv nat field, ug/kg (49409)	Phenan-thri-dine, bed sed <2 mm, wsv nat field, ug/kg (49393)	Pyrene, bed sed <2 mm, wsv nat field, ug/kg (49387)	Bed sediment, dry svd sve dia percent ug/kg (80164)	Bed sediment, fallidia dst wat percent ug/kg (80157)	
Aug 09...	120	<52	<52	<52	<5.00	E13	58	<52	100	1	1	