

Water-Data Report 2006

01409500 BATSTO RIVER AT BATSTO, NJ

MULLICA RIVER BASIN

LOCATION.--Lat 39°38'30", long 74°39'01" referenced to North American Datum of 1983, Washington Township, Burlington County, NJ, Hydrologic Unit 02040301, on right bank 30 ft downstream from bridge on County Highway 542 at Batsto, 0.6 mi east of Pleasant Mills, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--67.8 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1925, 1956, 1962-63, 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: Watershed Integrator, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 14.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of 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, ammonia+organic nitrogen in bed sediment, phosphorous in bed sediment, 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 3

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

Date	Time	Turbdty Instan- taneous dis- charge, cfs (00061)	UV white light, det ang 90+/-30 corrcrd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg (50624)	Dis- solved oxygen, mg/L (61726)	Dis- solved oxygen, percent of sat- uration (00025)	pH, water, unfiltrd field, std units	Specif. conduc- tance, wat unf 25 degC (00040)	Temper- ature, air, deg C (00095)	Temper- ature, water, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)
Nov 16...	1045	E80	1.4	.126	.098	765	8.4	81	5.5	51	22.5	13.9	10	
Feb 09...	1100	E135	1.2	.199	.152	767	10.7	81	5.0	60	3.5	3.8	11	
May 10...	1045	E74	2.5	.172	.135	760	9.1	91	5.7	39	20.0	15.4	7	
Aug 08...	1030	E64	5.3	.256	.204	764	7.4	87	5.5	29	28.0	23.6	5	

01409500 BATSTO RIVER AT BATSTO, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 3

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

Date	ANC, wat unf								Residue on evap.		Residue total		Ammonia + Ammonia	
	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)	fixed end pt, lab, mg/L as CaCO ₃ (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)	180degC wat flt mg/L (70300)	sus- pended, mg/L (00530)	at 105 deg. C, mg/L (00623)	org-N, water, fltrd, mg/L as N (00608)	
Nov 16...	1.98	1.12	1.09	3.92	<5	6.92	<.10	5.8	7.10	40	1	.15	.026	
Feb 09...	2.24	1.24	1.11	4.30	<5	7.65	<.10	4.3	8.24	41	3	.18	.038	
May 10...	1.43	.801	.77	3.29	<5	5.89	E.07	3.0	4.04	35	2	.19	E.008	
Aug 08...	1.00	.567	.59	2.50	<5	4.22	<.10	4.8	2.85	21	2	.18	E.009	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 3

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

Date	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, water, fltrd, mg/L (49570)	Total nitro- gen, water, unfltrd 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, susnd sediment total, mg/L (00694)	Inor- ganic carbon, susnd sediment total, mg/L (00688)	Organic carbon, susnd sediment total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Boron, water, fltrd, ug/L (01020)
Nov 16...	.18	.07	.33	.40	E.008	<.004	.008	.6	<.1	.6	3.6	<1.0	10
Feb 09...	.41	<.02	.59	--	E.008	E.004	E.003	.3	<.1	.3	4.2	<1.0	10
May 10...	.08	.05	.27	.32	E.003	.005	.012	.7	<.1	.7	2.8	<3.1	9.2
Aug 08...	.10	.05	.28	.33	<.010	E.003	.011	.8	<.1	.8	3.8	E1.8	8.7

01409500 BATSTO RIVER AT BATSTO, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 4

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

Date	Time	Ammonia			Inor-			Chrom-					
		pH bed sedimnt std	org-N, bed sedimnt total, mg/kg (00626)	Phos- phorus, bed sedimnt total, mg/kg (00668)	Total carbon, bed sedimnt total, g/kg (00693)	Inor- ganic carbon, bed sedimnt total, g/kg (00686)	Arsenic bed sedimnt recover -able, ug/g (64847)	Cadmium bed sedimnt recover -able, ug/g (01028)	ium, bed sedimnt recover -able, ug/g (01029)	Cobalt bed sedimnt recover -able, ug/g (01038)	Copper, bed sedimnt recover -able, ug/g (01043)	Iron, bed sedimnt total, ug/g (01170)	Lead, bed sedimnt recover -able, ug/g (01052)
Aug 08...	1030	6.28	70	160	2.2	<.2	.9	.010	2.3	.090	<2	3,200	3.3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 4

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

Date	Mangan- ese, bed sedimnt recover -able, ug/g (01053)	Mercury bed sedimnt recover -able, ug/g (71921)	Nickel, bed sedimnt recover -able, ug/g (01068)	Sele- nium, bed sedimnt recover -able, ug/g (64848)	Zinc, bed sedimnt recover -able, ug/g (01093)	1,2-Di- methyl- naphth- alene, <2 mm, ug/kg (49403)	1,6-Di- methyl- naphth- alene, <2 mm, ug/kg (49404)	1Methyl -9H- fluor- ene, <2 mm, ug/kg (49398)	1-Methyl- phenan- threne, <2 mm, ug/kg (49410)	1- Methyl- pyrene, wsv nat ug/kg (49388)	236Tri- methyl- naphth- alene, <2 mm, ug/kg (49405)	2,6-Di- methyl- naphth- alene, <2 mm, ug/kg (49406)	2-Ethyl naphth- alene bed sed bed sed
	4.3	<.007	.230	<.1	8.7	<51	E7	<51	E7	E11	E8	E12	E5
Aug 08...													

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 4

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

Date	2- Methyl- anthra- cene, bed sed <2 mm, bs <2mm ug/kg (49435)	4H-Cyc- lopenta- ene, bed sed <2 mm, wsv nat ug/kg (49411)	9H- Fluor- ene, bed sed <2 mm, wsv nat ug/kg (49399)	Ace- naphth- ylene, bed sed field, wsv nat ug/kg (49429)	Ace- naphth- ylene, bed sed field, wsv nat ug/kg (49428)	Anthra- cene, bed sed <2 mm, wsv nat ug/kg (49434)	Benzo- [a]- anthra- cene, bed sed field, wsv nat ug/kg (49436)	Benzo- [a]- pyrene, bed sed field, wsv nat ug/kg (49389)	Benzo- [b]- fluor- ene, bed sed field, wsv nat ug/kg (49458)	Benzo- [ghi]- peryl- ene, bed sed field, wsv nat ug/kg (49408)	Benzo- [k]- fluor- ene, bed sed field, wsv nat ug/kg (49397)	Chry- sene, bed sed field, wsv nat ug/kg (49450)	Dibenzo- -[a,h]- anthra- cene, bed sed field, wsv nat ug/kg (49461)
	E12	E21	E19	E14	E8	E26	78	E50	92	E14	E37	59	<51
Aug 08...													

01409500 BATSTO RIVER AT BATSTO, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 4

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

Date	Fluor-anthene <2 mm wsv nat field, ug/kg (49466)	Indeno-[1,2,- 3-cd]- bed sed pyrene, <2 mm, bed sed wsv nat bed	Iso-phorone bed sed <2 mm, bed sed wsv nat wsv nat sedimnt	Naphth-alene, bed sed <2 mm wsv nat wsv nat sedimnt	p-PCBs, bed sed ug/kg (49400)	Cresol, <2 mm, wsv nat field, ug/kg (39519)	Phenan-threne, bed sed wsv nat field, ug/kg (49451)	Phenan-threne, bed sed wsv nat wsv nat field, ug/kg (49409)	Pyrene, bed sed <2 mm, wsv nat field, ug/kg (49393)	Bed sediment, dry svd sve dia percent <.063mm (80164)	Bed sediment, fallidia dst wat percent .2
Aug 08...	260	E21	<51	E10	<5.00	<51	130	<51	170	.3	.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Enterococci m-E	E coli, m-TEC	Fecal coliform, ECbroth
		Temper-ature, water, water, deg C (00010)	MF, water, col/	MF, water, col/ MPN/
		100 mL (31649)	100 mL (31633)	100 mL (31615)
May				
03...		17.0	<10	<10
10...		17.9	<10	<10
17...		19.6	40	<10
24...		16.9	<10	<10
31...		22.5	<10	10
				<20