

Water-Data Report 2006

01399295 TANNERS BROOK NEAR MILLTOWN, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°47'17", long 74°43'32" referenced to North American Datum of 1983, Morris County, NJ, Hydrologic Unit 02030105, at bridge on Tanners Brook Road, 90 ft south of intersection of Tanners Brook Road, 640 ft north of abandoned railroad track, and 0.3 mi upstream of mouth.

DRAINAGE AREA.--2.78 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2005 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: Statewide Status, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 8.

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, 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 5

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

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, mg/L (00300)	pH percent of sat- uration (00301)	Specif. water, unfltrd field, std units (00400)	Conduc- tance, wat unf uS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
Nov 15...	0815	.9	.095	.076	755	9.0	78	7.3	183	11.5	8.5	56	14.7	
Feb 23...	0745	1.4	.071	.054	742	11.4	89	7.2	195	4.5	3.7	53	14.0	
Jun 12...	1130	2.1	.133	.105	743	7.3	75	7.3	182	25.0	15.0	52	13.7	
Aug 29...	0745	2.7	.148	.114	739	7.2	80	7.3	188	23.0	18.7	57	15.0	

01399295 TANNERS BROOK NEAR MILLTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

Date	ANC, wat unf						Residue water, fltrd,		Residue on evap.		Residue total		Ammonia + org-N, water, filtrd, mg/L as N (00623)	
	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	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)	consti- tuents (70301)	180degC wat flt (70300)	sus- pended, (00530)	at 105 deg. C, mg/L (00623)	Ammonia water, filtrd, mg/L (00608)	
Nov 15...	4.72	1.60	12.4	29	25.6	E.06	17.3	13.2	111	121	1	.20	.047	
Feb 23...	4.43	1.09	14.2	24	29.7	.11	14.4	12.2	111	119	<1	.20	.042	
Jun 12...	4.30	1.08	12.3	32	25.6	E.09	15.7	10.1	106	126	2	.24	.055	
Aug 29...	4.74	1.55	11.4	35	24.8	E.07	15.6	11.6	109	113	1	.36	.032	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

[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 mg/L (00694)	Inor- ganic carbon, susnd sediment mg/L (00688)	Organic carbon, susnd sediment mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Arsenic water, fltrd, ug/L (01000)
Nov 15...	.93	<.02	1.1	--	E.006	.004	.010	.1	<.1	.1	3.1	<1.0	--
Feb 23...	1.45	.03	1.6	1.7	E.005	E.003	.009	.2	<.1	.2	1.4	<1.0	E.08
Jun 12...	.98	.03	1.2	1.2	.013	.011	.020	.2	<.1	.3	2.9	--	--
Aug 29...	.69	.03	1.0	1.1	E.009	.008	.020	.3	<.1	.3	3.9	<1.0	.21

01399295 TANNERS BROOK NEAR MILLTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd ug/L (01007)	Beryll- ium, water, unfltrd ug/L (01012)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd ug/L (01022)	Cadmium water, unfltrd ug/L (01027)	Chrom- ium, water, unfltrd ug/L (01034)	Copper, water, unfltrd ug/L (01042)	Iron, water, unfltrd ug/L (01045)	Lead, water, unfltrd ug/L (01051)	Mangan- ese, water, unfltrd ug/L (01055)	Mercury water, unfltrd ug/L (71900)	Nickel, water, unfltrd ug/L (01067)
Nov 15...	--	--	--	9.4	--	--	--	--	--	--	--	--	--
Feb 23...	.17	29.5	E.03	E6.9	9	<.04	.27	.7	262	.12	32.2	<.010	.42
Jun 12...	--	--	--	8.2	--	--	--	--	--	--	--	--	--
Aug 29...	.29	30.1	<.06	12	13	<.04	.20	1.0	480	.25	26.5	<.010	.31

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO
SEPTEMBER 2006

Part 5 of 5

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

Date	Selen- ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd ug/L (01077)	Zinc, water, unfltrd ug/L (01092)
Nov 15...	--	--	--
Feb 23...	.19	<.16	3
Jun 12...	--	--	--
Aug 29...	.21	<.16	E2

01399295 TANNERS BROOK NEAR MILLTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-DB water, water, fltrd, ug/L (39732)	CIAT, 0.7u GF ug/L (38746)	CEAT, water, fltrd, ug/L (04040)	OIET, water, fltrd, ug/L (04038)	Hydroxy carbo-furan, wat flt ug/L (50355)	3-Hydroxy furan, water, fltrd ug/L (49308)	Aci-fluor-fen, water, fltrd ug/L (49315)	Aldi-carb sulfone, water, fltrd ug/L (49313)	Aldi-carb sulf-oxide, water, fltrd ug/L (49314)	Aldi-carb, water, fltrd ug/L (49312)	Atra-zine, water, fltrd ug/L (39632)
Jun 12...	1130	<.190	<.04	<.02	M	<.08	E.009	<.008	<.028	<.02	<.100	<.15	E.004

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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Date	Bendio-carb, water, fltrd, ug/L (50299)	Benomyl, water, fltrd, ug/L (50300)	Bensulfuron-methyl, water, fltrd, ug/L (61693)	Ben-tazon, water, fltrd, 0.7u GF ug/L (38711)	Bromo-cil, water, fltrd, ug/L (04029)	Bromoxynil, water, fltrd, 0.7u GF ug/L (49311)	Caf-feine, water, fltrd, ug/L (50305)	Car-baryl, water, fltrd, ug/L (49310)	Carbo-furan, water, fltrd, ug/L (49309)	Chlor-amben methyl, water, fltrd, ug/L (61188)	Chlorimuron, water, fltrd, ug/L (50306)	Chloro-di-amino-s-triazine, water, fltrd, ug/L (04039)	Clopyralid, water, fltrd, ug/L (49305)
Jun 12...	<.08	<.022	<.02	<.02	<.02	<.04	<.018	<.02	<.016	<.02	<.032	<.04	<.07

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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Date	Dacthal mono-acid, water, fltrd, 0.7u GF ug/L (04031)	Dicamba, water, fltrd, 0.7u GF ug/L (49304)	Di-chlor-prop, water, fltrd, 0.7u GF ug/L (38442)	Dinoseb, water, fltrd, 0.7u GF ug/L (49302)	Diphen-amid, water, fltrd, ug/L (49301)	Diuron, water, fltrd, 0.7u GF ug/L (04033)	Fenuron, water, fltrd, 0.7u GF ug/L (49300)	Flumet-sulam, water, fltrd, ug/L (49297)	Fluo-meturon, water, fltrd, ug/L (61694)	Imaza-quin, water, fltrd, ug/L (38811)	Imaza-thapyr, water, fltrd, ug/L (50356)	Imaze-thapyr, water, fltrd, ug/L (50407)	Imida-cloprid, water, fltrd, ug/L (61695)
Jun 12...	<.01	<.03	<.04	<.03	<.04	<.01	<.02	<.10	<.04	<.02	<.04	<.04	<.020

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Linuron	MCPA,	MCPB,	Meta-	Methio-	Meth-	N-(4-	Chloro-	Nico-	Norflur	Ory-	Oxamyl,	
	water, filtrd 0.7u GF ug/L (38478)	water, filtrd 0.7u GF ug/L (38482)	water, filtrd 0.7u GF ug/L (38487)	laxyl, water, filtrd, ug/L (50359)	carb, water, filtrd 0.7u GF ug/L (38501)	omyl, water, filtrd 0.7u GF ug/L (49296)	carb, water, filtrd 0.7u GF ug/L (61697)	phenyl) -N'- methyl- urea, ug/L (61692)	Neburon	sul- furon, filtrd, 0.7u GF ug/L (49294)	azon, water, filtrd 0.7u GF ug/L (50364)	zalin, water, filtrd 0.7u GF ug/L (49293)	water, filtrd 0.7u GF ug/L (38866)
Jun 12...	<.01	<.07	<.10	<.03	<.034	<.070	<.07	<.04	<.01	<.04	<.02	<.02	<.05

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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Date	Pic-	Pro-	Sulfo-	Tebu-	Tri-				
	loram, water, filtrd 0.7u GF ug/L (49291)	Propham water, filtrd 0.7u GF ug/L (49236)	Propi- conazole, water, filtrd, ug/L (50471)	poxur, water, filtrd 0.7u GF ug/L (38538)	Siduron water, filtrd, 0.7u GF ug/L (38548)	met- ruron, water, filtrd, 0.7u GF ug/L (50337)	thiuron water, filtrd, 0.7u GF ug/L (82670)	Terba- cil, water, filtrd 0.7u GF ug/L (04032)	clopyr, water, filtrd 0.7u GF ug/L (49235)
Jun 12...	<.03	<.030	<.01	<.008	<.02	<.090	<.026	<.026	<.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Enter-	E coli,	Fecal
		cocci, m-E Temp- ature, water, deg C (00010)	m-TEC MF, water, col/ 100 mL (31649)	col/ 100 mL (31633)
Jul				
12...	0930	20.6	170	50
19...	0920	28.3	300	40
26...	0957	20.3	400	10
Aug				
02...	0836	22.8	470	<10
09...	0842	18.6	620	10
				237