

Water-Data Report 2007

01380320 STONY BROOK AT BOONTON, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 40°55'44", long 74°26'15" referenced to North American Datum of 1983, Boonton Township, Morris County, NJ, Hydrologic Unit 02030103, at bridge on Valley Road, 0.4 mi upstream of mouth, 2.0 mi northwest of Boonton, and 0.5 mi southwest of airport at Boonton.

DRAINAGE AREA.--12.1 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1985-86, 2000, 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). Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 6.

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, and suspended residue 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 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, water, unfltrd percent of sat- uration (00301)	pH, water, field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm (00095)	Temper- ature, deg C (00020)	Temper- ature, air, deg C (00010)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, filtrd, mg/L (00915)
Nov 02...	1100	2.4	.216	.168	748	9.3	85	7.2	140	9.5	10.4	31	7.70		
Feb 28...	1100	6.9	.050	.037	752	11.8	90	7.2	217	6.0	4.1	51	12.5		
May 10...	1115	3.2	.135	.104	748	7.8	86	7.2	186	24.5	20.1	44	10.8		
Aug 28...	1030	1.8	.182	.137	752	6.8	78	7.6	224	23.2	22.4	51	12.6		

01380320 STONY BROOK AT BOONTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 5

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

Date	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	CaCO ₃ (90410)	ANC, wat unf fixed end pt, lab, mg/L as (00940)	Chlor- ide, water, fltrd, mg/L (00950)	Fluor- ide, water, fltrd, mg/L (00955)	Silica, water, fltrd, mg/L (00945)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. 180degC wat flt mg/L (70300)	Residue total at 180degC non- filter- able, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Nov 02...	2.94	.90	12.6	19	24.3	E.07	8.7	8.42	77	83	3	.27	E.009	
Feb 28...	4.86	.88	18.2	28	36.8	.10	9.3	12.8	114	142	7	.24	.046	
May 10...	4.09	.82	17.6	26	32.5	<.10	7.0	9.37	99	129	2	.36	.028	
Aug 28...	4.82	.97	20.7	36	37.8	E.06	9.6	6.93	115	129	1	.30	.031	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 5

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

Date	Nitrate + nitrite 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- phosphate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd water, unfltrd mg/L (00694)	Total carbon, suspnd sediment water, unfltrd mg/L (00688)	Inor- ganic carbon, suspnd sediment total, water, unfltrd mg/L (00689)	Organic carbon, suspnd sediment total, water, unfltrd mg/L (00689)	Organic carbon, water, fltrd, mg/L as P (01000)	Arsenic water, fltrd, mg/L as P (01002)
Nov 02...	E.06	.04	--	--	E.002	.009	.022	.4	<.1	.4	5.2	--	--
Feb 28...	.33	.09	.56	.66	E.007	E.007	.030	1.0	<.1	1.0	1.9	.28	.34
May 10...	.16	.05	.53	.57	<.010	.009	.026	.7	<.1	.7	3.4	--	--
Aug 28...	.07	.06	.36	.43	E.006	.013	.023	.4	<.1	.4	4.8	.56	.67

01380320 STONY BROOK AT BOONTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 5

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

Date	Barium, water, unfltrd recover -able, µg/L (01007)	Beryll- ium, water, unfltrd recover -able, µg/L (01012)	Boron, water, unfltrd recover -able, µg/L (01020)	Boron, water, unfltrd recover -able, µg/L (01022)	Cadmium water, unfltrd recover -able, µg/L (01027)	Chrom- ium, water, unfltrd recover -able, µg/L (01034)	Copper, water, unfltrd recover -able, µg/L (01042)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, unfltrd recover -able, µg/L (01051)	Mangan- ese, water, unfltrd recover -able, µg/L (01055)	Mercury water, unfltrd recover -able, µg/L (71900)	Nickel, water, unfltrd recover -able, µg/L (01067)	Selen- ium, water, unfltrd recover -able, µg/L (01147)
Nov 02...	--	--	13	--	--	--	--	--	--	--	--	--	
Feb 28...	11.6	<.06	12	11	.23	E.54	2.5	427	1.16	116	<.010	.66	
May 10...	--	--	15	--	--	--	--	--	--	--	--	--	
Aug 28...	8.1	<.06	18	22	.05	<.60	2.0	369	.31	39.3	<.010	.48	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006
TO SEPTEMBER 2007

Part 5 of 5

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

Date	Silver, water, unfltrd recover -able, µg/L (01077)	Zinc, water, unfltrd recover -able, µg/L (01092)
Nov 02...	--	--
Feb 28...	.02	4
May 10...	--	--
Aug 28...	<.02	2.1

01380320 STONY BROOK AT BOONTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 7

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

Date	1-Naph-thol, water, 0.7u GF	2,6-Di-ethyl-aniline, water, 0.7u GF	2Chloro- -2',6'-diethyl acetanilide, water, fltrd	CIAT, water, fltrd,	2-Ethyl- -6-methyl-chloro-aniline, water, fltrd,	3,4-Di-chloro-aniline, water, fltrd,	3,5-Di-chloro-aniline, water, fltrd,	4-Chloro- 2methyl-phenol, water, fltrd,	Aceto-chlor, water, fltrd,	Ala-chlor, water, fltrd,	alpha-Endosulfan, water, fltrd,	Atra-zine, water, fltrd,	Azin-phos-methyl oxon, water, fltrd,
	µg/L (49295)	µg/L (82660)	µg/L (61618)	µg/L (04040)	µg/L (61620)	µg/L (61625)	µg/L (61627)	µg/L (61633)	µg/L (49260)	µg/L (46342)	µg/L (34362)	µg/L (39632)	µg/L (61635)
May 10...	<.09	<.006	<.006	<.014	<.010	<.004	<.012	<.005	<.006	<.005	<.011	<.007	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 7

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

Date	Azin-phos-methyl, water, 0.7u GF	Ben-flur-alin, water, 0.7u GF	Car-baryl, water, fltrd	Carbo-furan, water, fltrd	Chlor-pyrifos oxon, water, fltrd	Chlor-pyrifos water, fltrd	Per-methrin water, fltrd	cis-Permethrin water, 0.7u GF	Propi-conazole, water, fltrd	Cyana-zine, water, fltrd	Cyflu-thrin, water, fltrd	lambda-Cyhalothrin, water, fltrd	Cyper-methrin, water, fltrd	DCPA, water, 0.7u GF
	µg/L (82686)	µg/L (82673)	µg/L (82680)	µg/L (82674)	µg/L (61636)	µg/L (38933)	µg/L (82687)	µg/L (79846)	µg/L (04041)	µg/L (61585)	µg/L (61595)	µg/L (61586)	µg/L (82682)	
May 10...	<.080	<.010	<.060	<.020	<.06	<.005	<.010	<.013	<.018	<.053	<.014	<.046	<.003	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 7

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

Date	Desulf-inyl-fipro-nil, water, fltrd,	Diazi-non, water, fltrd,	Dicrop-tophos, water, fltrd,	Diel-drin, water, fltrd,	Dimeth-oate, water, 0.7u GF	Disulf-ton, sulfone water, fltrd	Disul-foton, water, 0.7u GF	Endo-sulfan, sulfate water, fltrd	EPTC, water, 0.7u GF	Ethion, monoxon water, fltrd	Ethion, water, fltrd	Etho-prop, water, 0.7u GF	Fenami-phos sulfone, water, fltrd,
	µg/L (62170)	µg/L (39572)	µg/L (38454)	µg/L (39381)	µg/L (82662)	µg/L (61640)	µg/L (82677)	µg/L (61590)	µg/L (82668)	µg/L (61644)	µg/L (82346)	µg/L (82672)	µg/L (61645)
May 10...	E.004	<.005	<.08	<.009	<.006	<.01	<.02	<.022	<.002	<.02	<.016	<.012	<.053

01380320 STONY BROOK AT BOONTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 7

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

Date	Fenami-phos sulf-oxide, water, fltrd, µg/L (61646)	Fenami-phos, water, fltrd, µg/L (61591)	Desulf-inyl-amide, wat flt µg/L (62169)	Fipro-nil sulfide water, fltrd, µg/L (62167)	Fipro-nil sulfone water, fltrd, µg/L (62168)	Fipro-nil sulfone water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexa-zinone, water, fltrd, µg/L (04025)	Ipro-dione, water, fltrd, µg/L (61593)	Isofen-phos, water, fltrd, µg/L (61594)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)
May 10...	<.04	<.03	<.029	<.013	<.024	<.016	<.006	<.026	<.026	<.011	<.039	<.016	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 7

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

Date	Methi-althion water, fltrd, µg/L (61598)	Methyl para-thion, water, fltrd, µg/L (61664)	Methyl para-thion, water, fltrd, µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Moli-nate, water, fltrd, µg/L (82671)	Myclo-butanol water, fltrd, µg/L (61599)	Oxy-fluor-fen, water, fltrd, µg/L (61600)	Pendi-methalin, water, fltrd, µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate oxon, water, fltrd, µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet oxon, water, fltrd, µg/L (61601)
May 10...	<.009	<.02	<.008	E.006	<.012	<.003	<.033	<.017	<.020	<.03	<.020	<.05	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 6 of 7

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

Date	Prome-ton, water, fltrd, µg/L (04037)	Prome-tryn, water, fltrd, µg/L (04036)	Propy-zamide, water, fltrd, µg/L (82676)	Propy-panal, water, fltrd, µg/L (82679)	Propar-gite, water, fltrd, µg/L (82685)	Simazine, water, fltrd, µg/L (04035)	Tebu-thiuron water, fltrd, µg/L (82670)	Teflu-thrin, water, fltrd, µg/L (61606)	Ter-bufos water, fltrd, µg/L (61674)	Terbu-fos, water, fltrd, µg/L (82675)	Ter-butyl-azine, water, fltrd, µg/L (04022)	Thio-bencarb, water, fltrd, µg/L (82681)	trans-Propi-conazole, water, fltrd, µg/L (79847)
May 10...	<.01	<.006	<.004	<.011	<.02	<.006	<.02	<.003	<.04	<.01	<.01	<.010	<.03

01380320 STONY BROOK AT BOONTON, NJ—Continued

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

Part 7 of 7

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

Date	Tri-	flur-	Di-
	Tribu-	alin,	chlor-
	phos,	water,	vos,
	water,	filtrd	water,
	filtrd,	0.7u GF	filtrd,
	µg/L	µg/L	µg/L
	(61610)	(82661)	(38775)

May			
10...	<.035	<.009	<.01