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, 2005-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 6.

COOPERATION.--Physical measurements and samples for laboratory analysis 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 2007 TO SEPTEMBER 2008
Part 1 of 5
[Remark codes: <, less than; E, estimated.]

Date	Time	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	UV absorb-ance, 280 nm, wat flt units /cm (61726)	Baro-metric pres-sure, mm Hg (00025)	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, air, deg C (00020)	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
Dec													
06...	1000	7.9	.164	.127	754	11.1	77	8.1	184	1.0	.9	43	10.3
Feb													
28...	1100	1.6	.076	.058	750	12.1	88	7.8	227	.0	2.2	37	9.25
Jun													
05...	1030	4.8	.179	.140	750	6.3	70	7.3	202	19.3	20.0	43	10.6
Aug													
21...	1000	2.4	.143	.110	758	6.5	73	7.6	281	22.0	21.3	81	19.9

01380320 STONY BROOK AT BOONTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 2 of 5
[Remark codes: <, less than; E, estimated.]

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Dec													
06...	4.14	.90	14.5	22	28.4	<.12	12.4	12.2	97	100	14	.25	.039
Feb													
28...	3.46	.74	23.9	18	42.5	<.12	8.3	11.3	E111	123	2	.18	.014
Jun													
05...	4.04	.87	17.9	29	33.3	<.12	9.1	8.26	E102	122	11	.30	.031
Aug													
21...	7.61	1.25	20.8	57	43.6	E.06	11.8	8.52	E149	174	5	.33	.034

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 3 of 5
[Remark codes: <, less than; E, estimated.]

Date	Nitrate + nitrite water fltrd, mg/L as N (00631)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L as P (00666)	Phosphorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)
Dec													
06...	.14	.18	.39	.58	.011	.011	.043	2.0	<.04	2.0	4.4	--	--
Feb													
28...	.18	.06	.36	.42	E.005	E.006	.011	.4	<.04	.4	2.6	.17	<.60
Jun													
05...	.17	.09	.48	.56	E.004	.021	.044	.6	<.04	.6	4.5	--	--
Aug													
21...	.17	.07	.51	.57	E.003	.020	.034	.4	<.04	.4	4.1	.96	1.1

01380320 STONY BROOK AT BOONTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
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, fltrd, µg/L (01020)	Boron, water, unfltrd recover-able, µg/L (01022)	Cadmium water, unfltrd 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 µg/L (01147)
Dec													
06...	--	--	12	--	--	--	--	--	--	--	--	--	--
Feb													
28...	8.7	<.04	11	11	.06	E.31	1.6	156	.28	30.7	<.010	.62	E.06
Jun													
05...	--	--	14	--	--	--	--	--	--	--	--	--	--
Aug													
21...	12.2	E.03	19	18	.18	E.36	2.7	450	.63	180	<.010	.63	.13

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007
TO SEPTEMBER 2008
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)
Dec		
06...	--	--
Feb		
28...	<.02	7.5
Jun		
05...	--	--
Aug		
21...	.02	E2.0

01380320 STONY BROOK AT BOONTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 1 of 4
[Remark codes: <, less than; E, estimated.]

Date	Time	pH bed sedimnt std units (70310)	Ammonia + org-N, bed sed total, mg/kg as N (00626)	Phos-phorus, bed sedimnt total, mg/kg as P (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)	Chrom-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 digest, ug/g (01170)	Lead, bed sedimnt recover-able, ug/g (01052)
Aug 21...	1000	7.15	200	1,700	3.3	<.2	.9	.600	7.4	2.7	7	5,200	4.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
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, bed sed <2 mm, ug/kg (49403)	1,6-Di-methyl-naphth-alene, bed sed <2 mm, ug/kg (49404)	1Methyl-9H-fluor-ene, bed sed <2 mm, ug/kg (49398)	1-Methyl-phenan-threne, bed sed <2 mm, ug/kg (49410)	1-Methyl-pyrene, bed sed <2 mm, wsv nat ug/kg (49388)	236Tri-methyl-naphth-alene, bed sed <2 mm, ug/kg (49405)	2,6-Di-methyl-naphth-alene, bed sed <2 mm, ug/kg (49406)	2-Ethyl naphth-alene bed sed <2 mm wsv nat ug/kg (49948)
Aug 21...	98	<.007	5.0	<.1	17	<50	<50	<50	<50	<50	<50	E4	<50

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 3 of 4
[Remark codes: <, less than; E, estimated.]

Date	2-Methyl-anthra-cene, bed sed <2 mm, ug/kg (49435)	4H-Cyc-lopenta-[def]-phenan-threne, bs <2mm ug/kg (49411)	9H-Fluor-ene, bed sed <2 mm, wsv nat ug/kg (49399)	Ace-naphth-ene, bed sed <2 mm, wsv nat ug/kg (49429)	Ace-naphth-ylene, bed sed <2 mm, wsv nat ug/kg (49428)	Anthra-cene, bed sed <2 mm, wsv nat field, ug/kg (49434)	Benzo-[a]-anthra-cene, bed sed <2 mm, ug/kg (49436)	Benzo-[a]-pyrene, bed sed <2 mm, wsv nat ug/kg (49389)	Benzo-[b]-fluor-anthene bed sed <2 mm ug/kg (49458)	Benzo-[ghi]-peryl-ene, bed sed <2 mm, ug/kg (49408)	Benzo-[k]-fluor-anthene bed sed <2 mm ug/kg (49397)	Chry-sene, bed sed <2 mm, wsv nat field, ug/kg (49450)	Dibenzo-[a,h]-anthra-cene, bed sed <2 mm, ug/kg (49461)
Aug 21...	<50	<50	<50	<50	E4	E5	E5	E7	E9	E6	E5	E6	<50

01380320 STONY BROOK AT BOONTON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 4 of 4
[Remark codes: <, less than; E, estimated.]

Date	Fluor-anthene bed sed <2 mm wsv nat field, ug/kg (49466)	Indeno-[1,2,-3-cd]-pyrene, bed sed <2 mm ug/kg (49390)	Iso-phorone bed sed <2 mm, wsv nat field, ug/kg (49400)	Naphth-alene, bed sed <2 mm wsv nat ug/kg (49402)	PCBs, bed sedimnt ug/kg (39519)	p-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 ug/kg (49393)	Pyrene, bed sed <2 mm, wsv nat field, ug/kg (49387)	Bed sedi-ment, dry svd sve dia percent <62.5um (80164)
Aug										
21...	E13	E6	<50	<50	5.83	<50	E6	<50	E12	.7