



Water-Data Report 2006

01445100 PEQUEST RIVER AT LONG BRIDGE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°55'16", long 74°50'25" referenced to North American Datum of 1983, Allamuchy Township, Warren County, NJ, Hydrologic Unit 02040105, at bridge on Long Bridge Road in Long Bridge, 1,000 ft downstream of Trout Brook, 1.4 mi northwest of Weirtown, 1.7 mi south of Quaker Church, and 1.7 mi northeast of Alphano.

DRAINAGE AREA.--48.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1940-42. Occasional low-flow measurements, water years 1974, 2004-06.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Date	Discharge, in ft ³ /s
Aug 1, 2006	30.3
Aug 25, 2006	15.0

01445100 PEQUEST RIVER AT LONG BRIDGE, NJ—Continued**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 01.

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	Sample type	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfiltrd field, std units	Specif. conduc- tance, wat unf uS/cm (00400)	Temper- ature, air, deg C (25 degC (00095))	Temper- ature, water, deg C (00020 (00010))
Dec												
07...	0930	Environmental	4.2	.106	.081	758	11.9	86	8.1	505	5.0	1.7
Feb												
22...	0731	<i>Field Blank</i>	--	--	--	--	--	--	--	--	--	--
22...	0830	Environmental	3.9	.071	.054	752	11.6	86	8.3	515	5.5	2.3
May												
25...	0830	Environmental	3.1	.114	.086	749	8.0	79	8.1	505	14.5	14.2
Aug												
30...	0805	<i>Field Blank</i>	--	--	--	--	--	--	--	--	--	--
30...	0900	Environmental	6.6	.242	.186	748	7.3	80	7.9	418	19.0	18.8

01445100 PEQUEST RIVER AT LONG BRIDGE, 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 at 105 deg. C,		
	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, mg/L (00915)	Magnes- ium, water, mg/L (00925)	Potas- sium, water, mg/L (00935)	Sodium, water, mg/L (00930)	fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chlor- ide, water, mg/L (00940)	Fluor- ide, water, mg/L (00950)	Silica, water, mg/L (00955)	Sulfate, water, mg/L (00945)	consti- tuents water, mg/L (70301)	180degC wat flt mg/L (70300)	sus- pended, mg/L (00530)
Dec 07...	210	48.0	22.4	1.43	23.6	185	39.9	E.08	7.2	16.0	274	269	4
Feb 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 22...	220	50.1	22.9	1.60	25.1	190	41.9	.12	5.5	15.6	282	275	5
May 25...	210	49.0	22.2	1.16	22.7	180	43.4	E.06	4.5	12.7		294	6
Aug 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 30...	170	39.8	17.7	1.88	17.4	148	32.4	E.07	10.3	19.2	229	251	12

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)		Nitrite Ammonia water, fltrd, mg/L as N (00608)	Partic- ulate nitro- gen, susp, water, mg/L (00631)	Total nitro- gen, water, fltrd, mg/L (49570)	Total nitro- gen, water, unfiltrd mg/L (00602)	Ortho- phosphate, water, water, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfiltrd 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 carbon, water, fltrd, mg/L (00681)
Dec 07...	.33	.032	.96	.09	1.3	1.4	E.009	.007	.024	1.0	<.1	1.0	3.0
Feb 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 22...	.23	.039	1.19	.08	1.4	1.5	E.008	.007	.024	.6	<.1	.6	2.1
May 25...	.34	.016	.65	.06	1.0	1.1	--	.012	.019	.5	<.1	.5	3.3
Aug 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 30...	.55	.071	.44	.13	.98	1.1	.019	.028	.059	1.2	<.1	1.2	6.1

01445100 PEQUEST RIVER AT LONG BRIDGE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	BOD, water, unfltrd 5 day, 20 degC	Arsenic water, fltrd,	Arsenic water, unfltrd	Barium, water, recover	ium, water, recover	Boron, water, unfltrd	Boron, water, recover	Cadmium water, unfltrd	Chrom- ium, water, recover	Copper, water, unfltrd	Iron, water, unfltrd	Lead, water, fltrd,
	mg/L (00310)	ug/L (01000)	ug/L (01002)	ug/L (01007)	ug/L (01012)	ug/L (01020)	ug/L (01022)	ug/L (01027)	ug/L (01034)	ug/L (01040)	ug/L (01042)	ug/L (01045)
Dec 07...	<1.0	--	--	--	--	12	--	--	--	--	--	--
Feb 22...	--	<.12	--	--	--	--	--	--	E.2	--	--	<.08
22...	<1.0	.30	.34	14.6	<.06	12	13	<.04	.46	--	2.9	183
May 25...	E1.3	--	--	--	--	12	--	--	--	--	--	--
Aug 30...	--	<.12	--	--	--	--	--	--	<.40	--	--	<.08
30...	<1.0	.56	.79	17.7	<.06	18	15	<.04	.44	--	2.4	320

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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

Date	Mangan-		Mercury water, unfltrd	Nickel, water, unfltrd	Selen- ium, water, unfltrd	Silver, water, unfltrd	Zinc, water, unfltrd	
	Lead, water, unfltrd recover -able, ug/L (01051)	ese, water, unfltrd recover -able, ug/L (01055)						
Dec 07...	--	--	--	--	--	--	--	--
Feb 22...	--	--	<.010	--	E.04	--	--	<.6
22...	.41	29.1	--	<.010	--	1.41	.15	<.16
May 25...	--	--	--	--	--	--	--	--
Aug 30...	--	--	<.010	--	E.03	--	--	1.1
30...	.51	45.0	--	<.010	--	.81	.16	<.16
								E3

01445100 PEQUEST RIVER AT LONG BRIDGE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

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

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)	Aci-fluor-fen, water, fltrd ug/L (49308)	3-Hydroxy furan, water, fltrd ug/L (49315)	Aldi-carb sulfone water, fltrd ug/L (49313)	Aldi-carb sulf-oxide, wat flt ug/L (49314)	Aldi-carb, water, fltrd ug/L (49312)	Atra-zine, water, fltrd ug/L (39632)
May 25...	0830	<.190	E.02	<.02	E.01	<.08	<.032	<.008	<.028	<.02	<.100	<.15	.011

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

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, 0.7u GF ug/L (49310)	Carbo-furan, water, fltrd, 0.7u GF ug/L (49309)	Chlor-amben methyl, water, fltrd, ug/L (61188)	Chlori-muron, water, fltrd, ug/L (50306)	Chloro-di-amino-s-triazine, water, fltrd, ug/L (04039)	Clopyralid, water, fltrd, 0.7u GF ug/L (49305)
May 25...	<.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

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

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)	Fluor-meturon, water, fltrd, ug/L (61694)	Imaza-quin, water, fltrd, 0.7u GF ug/L (38811)	Imaza-thapyr, water, fltrd, ug/L (50356)	Imida-cloprid, water, fltrd, ug/L (50407)	Imida-cloprid, water, fltrd, ug/L (61695)
May 25...	<.01	<.03	<.04	<.03	<.04	<.01	<.02	<.10	<.04	<.02	<.04	<.04	<.020

01445100 PEQUEST RIVER AT LONG BRIDGE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	N-(4-Chlorophenyl)N-methyl-N'-urea												
	Linuron water, filtrd 0.7u GF ug/L (38478)	MCPA, water, filtrd 0.7u GF ug/L (38482)	MCPB, water, filtrd 0.7u GF ug/L (38487)	Metalexyl, water, filtrd, 0.7u GF ug/L (50359)	Methio-carb, water, filtrd 0.7u GF ug/L (38501)	Methoxyl, water, filtrd 0.7u GF ug/L (49296)	Metsulfuron, water, filtrd, 0.7u GF ug/L (61697)	Chloro-phenyl water, filtrd 0.7u GF ug/L (61692)	Neburon water, filtrd, 0.7u GF ug/L (49294)	Nicosulfuron, water, filtrd, 0.7u GF ug/L (50364)	Norflurazone, water, filtrd 0.7u GF ug/L (49293)	Oryzalin, water, filtrd 0.7u GF ug/L (49292)	Oxamyl, water, filtrd 0.7u GF ug/L (38866)
May 25...	<.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

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

Date	Picloram, water, filtrd 0.7u GF ug/L (49291)	Propham water, filtrd 0.7u GF ug/L (49236)	Propiconazole, water, filtrd, 0.7u GF ug/L (50471)	Propoxur, water, filtrd 0.7u GF ug/L (38538)	Prosiduron water, filtrd 0.7u GF ug/L (38548)	Sulforuron, water, filtrd, 0.7u GF ug/L (50337)	Tebuthiuron water, filtrd 0.7u GF ug/L (82670)	Terbacil, water, filtrd, 0.7u GF ug/L (04032)	Tri-clopyr, water, filtrd 0.7u GF ug/L (49235)
	May 25...	<.03	<.030	<.01	<.008	<.02	<.090	<.026	<.026

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Enterococci, m-E Temp- ature, water, deg C (00010)	Fecal coli, m-TEC MF, water, col/ 100 mL (31649)	Enterococci, E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, ECbroth MF, water, col/ 100 mL (31615)
		Aug	10... 0735 18.6 220 170 500	17... 0735 18.9 230 770 500	24... 0850 18.5 270 <10 1,700
Sep	07...	31... 0800 19.5 180 100 <20	Aug 10... 0735 18.6 220 170 500	Aug 17... 0735 18.9 230 770 500	Aug 24... 0850 18.5 270 <10 1,700
		Sep 07...	31... 0800 19.5 180 100 <20	Aug 10... 0735 18.6 220 170 500	Aug 17... 0735 18.9 230 770 500