

Water-Data Report 2007

01446400 PEQUEST RIVER AT BELVIDERE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°49'45", long 75°04'43" referenced to North American Datum of 1983, Belvidere Town, Warren County, NJ, Hydrologic Unit 02040105, at bridge on County Route 619 (Greenwich Street) in Belvidere, and 0.3 mi upstream from mouth.

DRAINAGE AREA.--157 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1974, 1977 to current year.

GAGE.--Staff gage.

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Date	Discharge, in ft³/s
Dec 6, 2006	290
Feb 21, 2007	129
May 9, 2007	252
Aug 20, 2007	122

01446400 PEQUEST RIVER AT BELVIDERE, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957, 1962, 1976-82, 1998 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: Watershed Integrator, NJ Department of Environmental Protection Watershed Management Area 1.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with 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 3

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

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC μS/cm (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Dec 06...	1030	290	4.0	.092	.067	763	14.2	107	8.0	466	5.0	3.3	220
Feb 21...	0940	129	1.9	.060	.048	751	14.3	107	8.1	507	9.0	2.6	230
May 09...	1050	252	2.7	.088	.066	759	11.2	111	8.3	476	23.0	15.1	210
Aug 20...	0950	122	1.8	.108	.081	756	10.0	101	8.2	510	14.0	16.1	230

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

Part 2 of 3

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

Date	Calcium water, fltrd, mg/L (00915)	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 (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)
Dec 06...	49.8	22.4	1.44	17.6	190	28.7	.10	8.5	16.7	264	260	8	.30
Feb 21...	52.8	24.5	1.41	18.6	186	32.4	.10	7.7	19.8	275	290	1	.29
May 09...	48.1	21.6	1.20	18.2	187	31.8	E.08	4.3	16.5	258	232	4	.23
Aug 20...	52.6	23.0	1.56	18.6	205	32.4	E.07	8.9	17.4	283	300	1	.23

01446400 PEQUEST RIVER AT BELVIDERE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 3

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, 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, 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)	Boron, water, fltrd, µg/L (01020)
Dec 06...	.030	1.02	.06	1.3	1.4	.016	.021	.039	.5	<.1	.5	3.1	11
Feb 21...	.051	1.38	.02	1.7	1.7	.017	.016	.025	.3	<.1	.3	1.5	12
May 09...	.147	.84	.07	1.1	1.1	.010	.013	.026	.7	<.1	.7	2.5	13
Aug 20...	.012	1.14	.04	1.4	1.4	.037	.048	.053	.3	<.1	.3	3.0	15