

Water-Data Report 2009

01409470 BATSTO RIVER AT QUAKER BRIDGE, NJ

MULLICA RIVER BASIN

LOCATION.--Lat 39°42'34", long 74°39'59" referenced to North American Datum of 1983, Washington Township, Burlington County, NJ, Hydrologic Unit 02040301, at Quaker Bridge on unimproved road, 1.1 miles south of Lower Forge, 1.9 mi downstream of Springers Brook, and 4.6 miles north of Batsto.

DRAINAGE AREA.--55.7 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1996-98, 2003-04, 2008-09.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Date	Discharge, in ft³/s
Dec 2, 2008	68.3
Feb 26, 2009	63.2
May 20, 2009	100
Aug 24, 2009	99.8

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water Years 1975-78, 1995-98, 2008 to current year.

REMARKS.--Cooperative Network Site Descriptor: Watershed Integrator, NJ Department of Environmental Protection Watershed Management Area 14.

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 2008 TO SEPTEMBER 2009

Part 1 of 3

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

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Instan- taneous dis- charge, ft ³ /s (00061)	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, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)
Dec 02...	1130	763	8.0	.178	.135	68	12.2	100	4.7	82	6.7	1.8	56
Feb 26...	1200	768	16.0	.116	.088	63	12.5	94	5.1	65	4.0	2.1	41
May 20...	1200	771	26.0	.502	.392	100	8.9	89	5.6	58	15.1	3.9	42
Aug 24...	1100	762	30.5	.967	.765	100	6.5	74	4.8	52	21.9	9.6	50

WATER-QUALITY DATA

WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 3

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

Date	Dis- solved solids, sum of consti- tuents, mg/L (70301)	Hard- ness, water, mg/L as CaCO3 (00900)	Sus- pended solids, water, unfltrd mg/L (00530)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Total carbon, suspnd sedimnt total, mg/L (00694)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO2 (00955)
Dec 02...	--	15	2	3.30	1.74	1.48	5.16	<1.7	.6	9.81	<.08	M	6.6
Feb 26...	--	12	3	2.57	1.35	1.09	4.71	<1.7	.4	8.85	<.08	<.04	5.4
May 20...	30	11	5	2.44	1.29	1.06	5.01	1.7	1.2	9.18	<.08	<.04	4.2
Aug 24...	--	9	3	2.00	1.05	1.15	3.90	<1.7	3.0	7.64	<.08	M	6.0

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 3

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

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia	Nitrate	Ortho-	Partic-	Phos-	Phos-	Total	Total	Organic	Organic	
		+ org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	+ nitrite water, fltrd, mg/L as N (00631)	phos- phate, water, fltrd, mg/L as P (00671)	ulate nitro- gen, susp, water, mg/L (49570)	phorus, water, fltrd, mg/L as P (00666)	phorus, water, unfltrd mg/L as P (00665)	nitro- gen, water, fltrd, mg/L (00602)	nitro- gen, water, unfltrd mg/L (00600)	carbon, suspnd sedimnt total, mg/L (00689)	carbon, water, fltrd, mg/L (00681)
Dec 02...	13.1	.20	.018	.44	<.010	.03	E.004	E.008	.63	.66	.60	4.9
Feb 26...	8.64	.15	.018	.61	<.010	.04	E.005	E.008	.76	.80	.36	2.9
May 20...	5.28	.34	.030	.21	.004	.08	.010	.027	.55	.63	1.19	9.5
Aug 24...	4.25	.42	.031	.12	<.010	.17	.008	.029	.54	.71	2.93	16.4