



Water-Data Report 2009

01367625 WALKKILL RIVER AT SPARTA, NJ

HUDSON RIVER BASIN

LOCATION.--Lat 41°02'25", long 74°37'47" referenced to North American Datum of 1983, Sparta Township, Sussex County, NJ, Hydrologic Unit 02020007, 0.4 mi northeast of Sparta, 1.2 mi downstream from outlet of Lake Mohawk, and 1.8 mi east of Fox Hollow Lake.

DRAINAGE AREA.--5.88 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

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

Date	Discharge, in ft³/s
Dec 3, 2008	11.8
Feb 18, 2009	11.9
May 18, 2009	14.1
Aug 5, 2009	10.6

01367625 WALKILL RIVER AT SPARTA, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Urban Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 2.

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.]

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 03...	1120	739	6.5	.071	.051	12	--	--	--	--	--	4.2	304
Feb 18...	1030	741	2.0	.055	.040	12	14.5	106	8.3	669	2.4	4.9	358
May 18...	0930	750	11.0	.083	.061	14	10.0	98	8.0	595	14.2	3.1	327
Aug 05...	0945	740	26.5	.081	.059	11	7.1	87	7.9	638	24.2	20	353

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 3

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

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 03...	E306	160	3	38.5	15.5	1.41	54.5	127	1.0	96.6	E.08	<.04	4.4
Feb 18...	E345	170	7	38.8	16.6	1.40	65.5	132	1.2	118	.11	<.04	4.1
May 18...	E311	150	3	36.7	14.6	1.21	57.3	114	1.0	111	E.08	<.04	4.1
Aug 05...	E319	170	18	40.3	17.2	1.55	55.0	135	3.8	106	E.08	<.04	4.9

01367625 WALLKILL RIVER AT SPARTA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 3

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

Date	Ammonia + org-N,		Nitrate + nitrite,		Ortho-phosphate,	Particulate nitrogen,	Phosphorus,	Phosphorus,	Total nitrogen,	Total nitrogen,	Organic carbon,	Organic carbon,
	Sulfate water, fltrd, mg/L (00945)	water, fltrd, mg/L as N (00623)	water, fltrd, mg/L as N (00608)	water, fltrd, mg/L as N (00631)								
Dec 03...	17.2	.24	.013	.31	E.009	.11	.010	.112	.55	.67	.94	3.2
Feb 18...	18.5	.22	.017	.47	E.006	.14	E.006	.034	.69	.84	1.18	2.5
May 18...	16.6	.25	.040	.29	.012	.09	.017	.038	.54	.63	.95	2.9
Aug 05...	11.9	.57	.175	.29	.011	.72	.015	.160	.86	1.6	3.73	3.6