



Water-Data Report 2009

01367770 WALLKILL RIVER NEAR SUSSEX, NJ

HUDSON RIVER BASIN

LOCATION.--Lat 41°11'38", long 74°34'31" referenced to North American Datum of 1983, Wantage Township, Sussex County, NJ, Hydrologic Unit 02020007, at bridge on Glenwood Road, 0.6 mi upstream from Papakating Creek, 1.7 mi southwest of Independence Corner, and 2.0 mi southeast of Sussex.

DRAINAGE AREA.--60.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1978-82, 1985, and 1987 to current year.

GAGE.--Staff gage.

REMARKS.--Flow includes some sewage effluent.

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

Date	Discharge, in ft³/s
Dec 4, 2008	90.4
Feb 18, 2009	87.7
May 28, 2009	53.7
Aug 6, 2009	87.9

01367770 WALLKILL RIVER NEAR SUSSEX, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

REMARKS.--Cooperative Network Site Descriptor: Watershed Integrator, NJ Department of Environmental Protection Watershed Management Area 02.

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 04...	1200	750	5.5	.118	.089	90	13.5	101	7.7	456	3.3	3.1	256
Feb 18...	1230	741	2.0	.073	.056	88	14.7	103	8.0	575	.6	5.9	307
May 28...	1020	748	16.5	.122	.093	54	9.3	99	8.0	604	16.9	5.5	351
Aug 06...	1300	751	27.0	.183	.139	88	8.5	97	7.9	564	21.8	5.8	312

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 04...	E247	160	3	38.2	15.5	1.58	32.6	132	.3	54.2	E.10	E.02	7.7
Feb 18...	E300	180	14	43.6	18.2	1.45	40.9	154	.4	75.7	.12	<.04	6.9
May 28...	323	210	5	48.9	21.4	1.67	41.7	174	.7	76.5	.13	<.04	7.3
Aug 06...	299	190	5	44.8	18.7	1.80	40.4	166	1.0	69.8	.10	<.04	10.0

01367770 WALLKILL RIVER NEAR SUSSEX, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 3

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

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia	Ammonia	Nitrate	Ortho-	Partic-	Phos-	Phos-	Total	Total	Organic	Organic
		+ org-N, water, fltrd, mg/L as N (00623)	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 04...	14.1	.25	E.006	.83	.012	.02	.012	.025	1.1	1.1	.28	3.4
Feb 18...	17.1	.21	.023	.90	E.006	.04	.009	.025	1.1	1.1	.39	2.5
May 28...	14.3	.37	.030	1.36	.020	.08	.031	.058	1.7	1.8	.66	3.7
Aug 06...	10.2	.38	.017	.78	.030	.08	.041	.060	1.2	1.2	.98	4.7