



Water-Data Report 2007

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 2006 TO SEPTEMBER 2007**

Date	Discharge, in ft³/s
Nov 15, 2006	199
Feb 12, 2007	46.2
May 7, 2007	109
Aug 22, 2007	87.6

01367770 WALLKILL RIVER NEAR SUSSEX, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 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, New Jersey 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 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 μ S/cm (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)
Nov 15...	1030	199	3.0	.139	.105	751	8.4	78	7.6	402	14.0	11.2	150
Feb 12...	1230	46	8.4	.051	.038	754	14.8	103	7.9	629	5.0	.4	230
May 07...	1030	109	2.4	.096	.073	761	10.3	98	7.8	500	14.0	13.1	190
Aug 22...	1140	88	5.4	.156	.117	755	8.7	91	7.9	548	--	16.8	190

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 CaCO ₃ (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)
Nov 15...	35.2	14.3	1.52	24.0	135	39.0	.11	8.3	11.0	216	229	2	.24
Feb 12...	52.5	23.9	1.84	35.9	199	64.8	.12	7.6	19.2	332	347	7	.31
May 07...	43.2	18.8	1.29	32.0	162	54.4	.11	3.2	13.4	266	269	3	.24
Aug 22...	45.1	19.0	1.84	38.3	169	65.6	.11	8.7	14.4	297	320	4	.34

01367770 WALLKILL RIVER NEAR SUSSEX, 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)
Nov 15...	.025	.46	<.02	.70	--	.012	.020	.030	.3	<.1	.3	3.8	16
Feb 12...	.098	1.41	.07	1.7	1.8	.012	.011	.044	.6	<.1	.6	1.8	19
May 07...	<.010	.68	.06	.92	.98	E.006	.010	.022	.4	<.1	.4	2.9	18
Aug 22...	.028	.62	.07	.97	1.0	.025	.033	.051	.8	<.1	.8	4.5	22