

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 2011 TO SEPTEMBER 2012**

Date	Discharge, in ft³/s
Nov 9, 2011	144
Feb 22, 2012	73.6
Jun 18, 2012	53.2
Aug 15, 2012	27.3

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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 concentrations of dissolved ammonia in filtered water and suspended solids in unfiltered water were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory (DHSS-ECL).

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 1 of 5

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; cm, centimeter; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; <, less than]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per cm (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per cm (61726)	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
11-09-2011	1220	753	15.5	0.093	0.070	144	11.2	97	7.9
02-22-2012	1225	--	14.0	.056	.042	74	12.7	101	8.1
06-18-2012	1300	756	22.0	.120	.091	53	9.3	100	8.0
08-15-2012	1215	--	25.5	.131	.099	27	8.0	100	8.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 2 of 5

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Date	Sample start time	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, mg/L (70301)	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)
11-09-2011	1220	496	8.9	2.4	281	268	187	2	44.8
02-22-2012	1225	550	5.8	3.3	325	296	211	5	49.4
06-18-2012	1300	524	18.9	6.0	301	287	191	5	43.9
08-15-2012	1215	665	23.0	3.0	379	368	236	2	54.1

01367770 WALLKILL RIVER NEAR SUSSEX, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 3 of 5

[%, percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; cm, centimeter; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter; <, less than]

Date	Sample start time	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint titration, laboratory, mg/L as CaCO ₃ (90410)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO ₂ (00955)
11-09-2011	1220	18.3	1.39	30.0	169	0.24	49.9	0.08	< .03	7.57
02-22-2012	1225	21.3	1.41	34.0	181	.49	55.4	.09	< .03	6.17
06-18-2012	1300	19.7	1.43	36.0	178	.49	54.9	.09	< .03	8.06
08-15-2012	1215	24.5	2.84	48.8	195	.46	79.3	.10	< .03	11.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 4 of 5

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Date	Sample start time	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Particulate nitrogen, suspended in water, mg/L (49570)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, mg/L (00602)	Total nitrogen, water, unfiltered, mg/L (00600)
11-09-2011	1220	11.8	0.19	< .010	0.602	0.024	0.008	0.017	0.79	0.82
02-22-2012	1225	15.8	.16	.014	.859	.053	.007	.018	1.0	1.1
06-18-2012	1300	11.9	.26	< .010	.910	.047	.019	.041	1.2	1.2
08-15-2012	1215	17.7	.32	< .010	2.84	.044	.041	.060	3.2	3.2

01367770 WALLKILL RIVER NEAR SUSSEX, NJ—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER
2012**

Part 5 of 5

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Date	Sample start time	Organic carbon, suspended sediment, total, mg/L (00689)	Organic carbon, water, filtered, mg/L (00681)
11-09-2011	1220	0.24	2.84
02-22-2012	1225	.48	1.83
06-18-2012	1300	.49	3.30
08-15-2012	1215	.45	3.57