



Water-Data Report 2007

01368000 WALKILL RIVER NEAR UNIONVILLE, NY

HUDSON RIVER BASIN

LOCATION.--Lat 41°15'36", long 74°32'56" referenced to North American Datum of 1927, Wantage Township, Sussex County, NJ, Hydrologic Unit 02020007, at bridge on Bassetts Bridge Road, 0.6 mi upstream from unnamed tributary, 2.0 mi south of the New York-New Jersey State Line, and 3.0 mi south of Unionville.

DRAINAGE AREA.--140 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Operated as a continuous-record gaging station, water years 1937-81. Miscellaneous measurements, water years 2001 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 28, 2006	431
Feb 12, 2007	82.4
May 22, 2007	93.2
Aug 22, 2007	206

01368000 WALKILL RIVER NEAR UNIONVILLE, NY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-78, 1988, 1991-97, 2001 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, 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 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 28...	1300	431	3.5	.147	.112	760	13.1	108	6.8	332	13.0	7.0	110
Feb 12...	1030	82	4.0	.079	.059	755	14.3	98	7.6	528	3.0	.2	180
May 22...	1130	93	10	.176	.134	762	8.1	82	7.6	488	17.0	16.1	170
Aug 22...	0940	206	17	.166	.126	755	8.1	84	7.6	422	--	16.6	140

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 28...	30.2	9.15	1.38	20.6	97	32.5	E.06	7.9	13.1	176	179	2	.26
Feb 12...	43.9	16.6	1.66	29.9	154	56.1	.13	7.2	20.7	275	292	6	.32
May 22...	42.4	15.4	1.61	31.4	147	54.5	.13	6.1	14.0	258	256	17	.36
Aug 22...	37.1	11.2	2.31	29.9	119	51.3	E.09	7.6	14.8	229	248	19	.42

01368000 WALKILL RIVER NEAR UNIONVILLE, NY—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 28...	.021	.58	.04	.84	.88	.012	.016	.029	.3	<.1	.3	3.8	14
Feb 12...	.046	1.34	.03	1.7	1.7	E.009	.009	.025	.3	<.1	.3	2.3	16
May 22...	.031	.88	.11	1.2	1.4	.014	.020	.054	1.0	<.1	1.0	4.4	21
Aug 22...	.052	.79	.11	1.2	1.3	.034	.045	.094	.8	<.1	.8	4.5	21