

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.--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 2008 TO SEPTEMBER 2009

Date	Discharge, in ft³/s
Dec 4, 2008	220
Feb 23, 2009	172
May 26, 2009	98.1
Aug 11, 2009	247

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.--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 2008 TO SEPTEMBER 2009

Part 1 of 3

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

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...	0940	750	5.0	.162	.123	220	13.2	96	7.2	365	2.3	6.6	204
Feb 23...	1040	753	-4.0	.099	.075	172	13.3	94	7.6	456	.8	26	254
May 26...	1215	759	16.5	.221	.168	98	6.6	71	7.3	479	18.9	19	273
Aug 11...	0940	749	26.0	.230	.175	247	6.1	70	7.4	408	22.5	17	234

WATER-QUALITY DATA

WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 3

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

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...	E198	120	6	31.5	9.49	1.69	27.0	90	.6	45.9	E.07	M	7.7
Feb 23...	E243	130	31	33.8	10.7	1.52	39.8	99	1.7	68.7	E.07	M	6.8
May 26...	E253	160	23	40.6	14.0	1.38	34.4	124	1.0	64.6	E.09	M	6.5
Aug 11...	E218	130	17	35.4	10.3	2.23	30.1	111	1.1	51.5	E.09	<.04	8.6

01368000 WALKILL RIVER NEAR UNIONVILLE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 3

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia	Nitrate	Ortho-	Partic-	Phos-	Phos-	Total	Total	Organic	Organic	
		+ org-N, water, fltrd, mg/L as N (00623)	Ammonia 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...	17.9	.30	.017	.60	.015	.08	.018	.035	.90	.98	.58	4.2
Feb 23...	18.3	.27	.032	.93	E.006	.18	.011	.053	1.2	1.4	1.69	2.8
May 26...	13.8	.47	.072	.71	.019	.11	.032	.080	1.2	1.3	1.02	4.8
Aug 11...	10.3	.44	.027	.58	.034	.14	.046	.091	1.0	1.2	1.06	5.6