

Water-Data Report 2008

**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 mi<sup>2</sup>.

**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 2007 TO SEPTEMBER 2008**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Nov 8, 2007	123
Mar 3, 2008	382
May 28, 2008	227
Aug 6, 2008	84.0

## 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 2007 TO SEPTEMBER 2008

Part 1 of 3

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

Date	Time	Instantaneous discharge, ft <sup>3</sup> /s (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 unfltrd $\mu$ S/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)
Nov 08...	1000	123	4.4	.180	.137	761	10.8	87	7.2	419	3.5	6.2	140
Mar 03...	1330	382	6.6	.092	.069	753	13.8	105	7.6	448	17.5	3.5	130
May 28...	1040	227	15	.183	.140	755	7.5	80	7.5	400	17.0	18.4	130
Aug 06...	1020	84	13	.194	.147	744	6.6	79	7.5	529	23.3	24.1	170

## WATER-QUALITY DATA

## WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 3

[Remark codes: &lt;, 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 unfltrd fixed end pt, lab, mg/L as CaCO <sub>3</sub> (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO <sub>2</sub> (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 08...	36.7	12.0	2.01	28.0	113	48.1	E.09	8.5	20.8	E227	244	10	.34
Mar 03...	32.6	10.8	1.42	37.4	93	69.2	E.08	5.8	17.4	E234	241	7	.20
May 28...	33.8	11.1	1.34	28.4	106	48.8	E.08	5.7	13.1	E209	219	20	.36
Aug 06...	42.6	15.9	2.41	35.8	147	62.5	E.10	8.3	18.6	E279	298	12	.43

## 01368000 WALKILL RIVER NEAR UNIONVILLE, NY—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 3

[Remark codes: &lt;, 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 as P (00666)	Phos- phorus, water, unfltrd mg/L as P (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)
<b>Nov</b> <b>08...</b>	E.009	.82	E.03	1.2	E1.2	.018	.025	.041	.3	<.04	.3	4.5	19
<b>Mar</b> <b>03...</b>	.016	.78	.05	.98	1.0	E.009	.012	.028	.4	<.04	.4	2.7	13
<b>May</b> <b>28...</b>	.032	.60	.12	.96	1.1	.014	.025	.069	1.1	<.04	1.1	4.8	17
<b>Aug</b> <b>06...</b>	.025	.86	.13	1.3	1.4	.034	.041	.101	1.1	<.04	1.1	5.6	24