

Water-Data Report 2007

01381330 WHIPPANY RIVER AT WHITEHEAD ROAD, AT WASHINGTON VALLEY, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 40°47'48", long 74°31'48" referenced to North American Datum of 1983, Morris Township, Morris County, NJ, Hydrologic Unit 02030103, at bridge on Whitehead Road, 0.6 mi south of Washington Valley, 2.5 mi west of Morristown, and 3.6 mi upstream of Speedwell Lake.

DRAINAGE AREA.--8.91 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2006 to August 2007.

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: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 6.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of 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 5

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

Date	Time	Sample type	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units	Specif- ic conduc- tance, wat unf μS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
Nov 01...	0945	Environmental	1.6	.071	.056	755	9.4	86	7.4	245	18.0	11.0
Feb 01...	1029	Field Blank	--	--	--	--	--	--	--	--	--	--
01...	1030	Environmental	1.7	.027	.021	753	13.1	94	7.7	292	.5	1.4
May 15...	1100	Environmental	2.0	.050	.039	752	9.8	97	7.7	281	24.0	14.7
Aug 16...	0845	Environmental	1.7	.065	.050	753	7.6	83	7.5	302	23.0	19.4

01381330 WHIPPANY RIVER AT WHITEHEAD ROAD, AT WASHINGTON VALLEY, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
 Part 2 of 5
 [Remark codes: <, less than; E, estimated.]

Date	Hardness, water, mg/L as CaCO ₃ (00900)	ANC, wat unf fixed						Chlor- ide, lab, mg/L as CaCO ₃ (90410)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non- filter- able, 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)	Chlor- ide pt, lab, mg/L as CaCO ₃ (90410)	Fluor- ide, water, fltrd, mg/L (00950)							
Nov 01...	75	19.0	6.79	1.56	16.2	46	37.7	E.07	17.0	11.2	141	146	1	
Feb 01...	--	--	--	--	--	--	--	--	--	--	--	--	--	
01...	79	18.9	7.67	1.17	18.6	45	45.4	E.06	18.0	12.4	155	163	2	
May 15...	83	20.1	7.92	1.29	18.6	48	45.0	E.08	16.7	11.7	155	180	1	
Aug 16...	94	22.7	8.99	1.59	17.2	57	44.7	E.08	19.8	12.9	168	190	1	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
 Part 3 of 5
 [Remark codes: <, less than; E, estimated.]

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Nitrate Ammonia water, fltrd, mg/L as N (00608)	Partic- ulate nitro- gen, susp., water, mg/L (00631)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phosphate, 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 mg/L (00694)	Inor- ganic carbon, suspnd sedimnt mg/L (00688)	Organic carbon, suspnd sedimnt mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	
Nov 01...	.15	E.006	.87	<.02	1.0	--	E.008	E.006	.011	.2	<.1	.2	2.0
Feb 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	E.10	<.010	1.34	<.02	--	--	E.006	E.004	E.007	.1	<.1	.1	.8
May 15...	.18	<.010	1.02	.03	1.2	1.2	E.007	E.005	.010	.3	<.1	.3	1.6
Aug 16...	.14	.031	1.24	.02	1.4	1.4	.013	.013	.018	.2	<.1	.2	1.7

01381330 WHIPPANY RIVER AT WHITEHEAD ROAD, AT WASHINGTON VALLEY, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 5

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

Date	Arsenic		Barium		Beryll-		Boron		Cadmium		Chrom-		Copper		Iron,		Lead,								
	water, fltrd, unfltrd	water, unfltrd	water, recover	water, recover	ium, water, unfltrd	ium, water, unfltrd	water, fltrd, recover	water, unfltrd	water, unfltrd	water, recover	ium, water, unfltrd	ium, water, unfltrd	water, fltrd, recover	water, unfltrd	water, recover	water, unfltrd	water, recover	water, unfltrd	water, recover	water, unfltrd	water, recover	water, unfltrd			
	µg/L (01000)	µg/L (01002)		µg/L (01007)		µg/L (01012)		µg/L (01020)		µg/L (01022)		µg/L (01027)		µg/L (01034)		µg/L (01040)		µg/L (01042)		µg/L (01045)		µg/L (01049)		µg/L (01051)	
Nov																									
01...	--	--	--	--	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb																									
01...	<.12	--	--	--	--	--	--	--	--	--	--	<.40	--	--	--	<.12	--	--	--	--	--	--	--	--	--
01...	E.09	.20	25.5	<.06	14	13	E.01	<.60	--	E.6	63	--	E.04	--	--	--	--	--	--	--	--	--	--	--	--
May																									
15...	--	--	--	--	--	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug																									
16...	.21	.27	27.6	<.06	25	23	E.01	<.60	--	E.92	223	--	.14	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 5

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

Date	Mangan-		Mercury		Nickel		Selen-		Silver		Zinc,		
	ese, water, unfltrd	recover	Mercury water, unfltrd	recover	Nickel, water, unfltrd	recover	Selen- ium, water, unfltrd	recover	Zinc, water, unfltrd	water, recover	Zinc, water, unfltrd	water, recover	
	µg/L (01055)	(71890)	µg/L (71900)	µg/L (01065)	µg/L (01067)	µg/L (01147)	µg/L (01077)	µg/L (01090)	µg/L (01090)	µg/L (01092)	µg/L (01092)		
Nov													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb													
01...	--	<.010	--	<.06	--	--	--	<.60	--	--	--	--	--
01...	19.1	--	E.008	--	.34	.13	<.02	--	--	3	--	--	--
May													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug													
16...	29.3	--	<.010	--	.34	.15	<.02	--	E1.1	--	--	--	--

01381330 WHIPPANY RIVER AT WHITEHEAD ROAD, AT WASHINGTON VALLEY, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 7

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

Date	1-Naph-thol, water, fltrd 0.7u GF	2,6-Di-ethyl-aniline water, fltrd 0.7u GF	2Chloro- -2',6'-diethyl acetanilide water flt	CIAT, water, fltrd, 0.7u GF	2-Ethyl- -6-methyl-chloro-aniline water, fltrd, 0.7u GF	3,4-Di-chloro-aniline water, fltrd, 0.7u GF	3,5-Di-chloro-aniline water, fltrd, 0.7u GF	4-Chloro- 2methyl-phenol, water, fltrd, 0.7u GF	Aceto-chlor, water, fltrd, 0.7u GF	Ala-chlor, water, fltrd, 0.7u GF	alpha-Endosulfan, water, fltrd, 0.7u GF	Atra-zine, water, fltrd, 0.7u GF	Azin-phos-methyl oxon, water, fltrd, 0.7u GF
	µg/L (49295)	µg/L (82660)	µg/L (61618)	µg/L (04040)	µg/L (61620)	µg/L (61625)	µg/L (61627)	µg/L (61633)	µg/L (49260)	µg/L (46342)	µg/L (34362)	µg/L (39632)	µg/L (61635)
May 15...	<.09	<.006	<.006	E.006	<.010	<.004	<.012	<.005	<.006	<.005	<.011	E.006	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 7

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

Date	Azin-phos-methyl, water, fltrd 0.7u GF	Ben-flur-alin, water, fltrd 0.7u GF	Car-baryl, water, fltrd 0.7u GF	Carbo-furan, water, fltrd 0.7u GF	Chlor-pyrifos oxon, water, fltrd 0.7u GF	Chlor-pyrifos water, fltrd, 0.7u GF	Per-methrin water, fltrd, 0.7u GF	cis-Permethrin water, fltrd, 0.7u GF	cis-Propiconazole, water, fltrd, 0.7u GF	Cyana-zine, water, fltrd, 0.7u GF	Cyflu-thrin, water, fltrd, 0.7u GF	Lambda-Cyhalothrin, water, fltrd, 0.7u GF	Cyper-methrin water, fltrd, 0.7u GF	DCPA, water, fltrd 0.7u GF
	µg/L (82686)	µg/L (82673)	µg/L (82680)	µg/L (82674)	µg/L (61636)	µg/L (38933)	µg/L (82687)	µg/L (79846)	µg/L (04041)	µg/L (61585)	µg/L (61595)	µg/L (61586)	µg/L (82682)	
May 15...	<.080	<.010	<.060	<.020	<.06	<.005	<.010	<.013	<.018	<.053	<.014	<.046	<.003	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 7

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

Date	Desulf-inyl-fipro-nil, water, fltrd 0.7u GF	Diazi-non, water, fltrd 0.7u GF	Dicro-tophos, water, fltrd 0.7u GF	Diel-drin, water, fltrd 0.7u GF	Dimeth-oate, water, fltrd 0.7u GF	Disulf-ton, sulfone water, fltrd 0.7u GF	Disul-foton, water, fltrd 0.7u GF	Endo-sulfan, sulfate water, fltrd 0.7u GF	EPTC, water, fltrd 0.7u GF	Ethion, monoxon water, fltrd 0.7u GF	Ethion, water, fltrd 0.7u GF	Etho-prop, water, fltrd 0.7u GF	Fenami-phos sulfone water, fltrd 0.7u GF
	µg/L (62170)	µg/L (39572)	µg/L (38454)	µg/L (39381)	µg/L (82662)	µg/L (61640)	µg/L (82677)	µg/L (61590)	µg/L (82668)	µg/L (61644)	µg/L (82346)	µg/L (82672)	µg/L (61645)
May 15...	E.004	<.005	<.08	<.009	<.006	<.01	<.02	<.022	<.002	<.02	<.016	<.012	<.053

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 7

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

Date	Fenami-phos sulf-oxide, water, fltrd, µg/L (61646)	Fenami-phos, water, fltrd, µg/L (61591)	Desulf-inyl-amide, wat flt µg/L (62169)	Fipro-nil sulfide µg/L (62167)	Fipro-nil sulfone µg/L (62168)	Fipro-nil water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexa-zinone, water, fltrd, µg/L (04025)	Ipro-dione, water, fltrd, µg/L (61593)	Isofen-phos, water, fltrd, µg/L (61594)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)
May 15...	<.06	<.03	<.029	E.005	<.024	E.007	<.006	<.026	<.026	<.011	<.039	<.016	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

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

Date	Methi-althion water, fltrd, µg/L (61598)	Methyl para-thion, water, fltrd, 0.7u GF µg/L (61664)	Methyl para-chlor, water, fltrd, 0.7u GF µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Moli-nate, water, fltrd, 0.7u GF µg/L (82671)	Myclo-butanol water, fltrd, µg/L (61599)	Oxy-fluor-fen, water, fltrd, 0.7u GF µg/L (61600)	Pendi-methalin, water, fltrd, 0.7u GF µg/L (82683)	Phorate oxon, water, fltrd, 0.7u GF µg/L (61666)	Phorate oxon, water, fltrd, 0.7u GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet oxon, water, fltrd, µg/L (61601)
May 15...	<.009	<.02	<.008	E.009	<.012	<.003	<.033	<.017	<.020	<.03	<.020	<.05	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 6 of 7

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

Date	Prome-ton, water, fltrd, µg/L (04037)	Prome-tryn, water, fltrd, 0.7u GF µg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF µg/L (82676)	Propanil, water, fltrd, 0.7u GF µg/L (82679)	Propar-gite, water, fltrd, 0.7u GF µg/L (82685)	Tebu-simazine, water, fltrd, 0.7u GF µg/L (04035)	Tebu-thiuron, water, fltrd, 0.7u GF µg/L (82670)	Ter-bufos, Teflu-thrin, oxon sulfone water, water, fltrd, fltrd, µg/L µg/L (61606)	Terbu-fos, Teflu-thrin, water, water, fltrd, fltrd, µg/L µg/L (61674)	Ter-butyl-azine, water, water, fltrd, fltrd, µg/L µg/L (82675)	Ter-benzene, water, water, fltrd, fltrd, µg/L µg/L (04022)	Thio-bencarb, water, water, fltrd, fltrd, µg/L µg/L (82681)	trans-Propi-conazole, water, water, fltrd, fltrd, µg/L µg/L (79847)
May 15...	<.01	<.006	<.004	<.011	<.02	E.006	<.02	<.003	<.04	<.01	<.01	<.010	<.03

01381330 WHIPPANY RIVER AT WHITEHEAD ROAD, AT WASHINGTON VALLEY, NJ—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO
SEPTEMBER 2007**

Part 7 of 7

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

Date	Tri- flur- alin, phos, water, water, filtrd, μg/L (61610)	chlor- vos, water, 0.7u GF μg/L (82661)	Di- chlor- filtrd, μg/L (38775)
May 15...	<.035	<.009	<.01