



Water-Data Report 2009

01381515 WHIPPANY RIVER AT MALAPARDIS, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 40°49'08", long 74°26'27" referenced to North American Datum of 1983, Hanover Township, Morris County, NJ, Hydrologic Unit 02030103, at bridge on South Jefferson Road, 0.5 mi north of Monroe, 0.9 mi southwest of Malapardis, and 4.0 mi downstream of Lake Pocahontas.

DRAINAGE AREA.--31.6 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1994, 2009.

REMARKS.--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 2008 TO SEPTEMBER 2009**

Part 1 of 5

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

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	UV absorb- ance, 254 nm, wat flt units (50624)	UV absorb- ance, 280 nm, wat flt units (61726)	Dis- solved oxygen, of sat- uration 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, 90+/-30 corrctd NTRU (63676)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)	Dis- solved solids, sum of consti- tuents, mg/L (70301)
Nov													
13...	0815	763	9.0	.079	.060	11.5	99	7.8	624	8.8	1.5	362	E329
Feb													
05...	0830	764	-2.0	.050	.038	11.2	77	7.7	1,560	.2	2.2	805	E803
May													
14...	0830	764	18.0	.089	.070	9.2	91	7.8	561	15.3	3.4	386	E298
Aug													
11...	0830	752	26.5	.081	.062	7.6	89	7.9	618	23.2	2.5	355	E333

01381515 WHIPPANY RIVER AT MALAPARDIS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 5

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

Date	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)	Sulfate water, fltrd, mg/L (00945)
Nov 13...	160	1	40.8	14.3	4.00	54.2	79	.2	120	E.07	<.04	16.8	22.0
Feb 05...	180	5	48.7	14.4	3.52	233	63	.4	417	E.06	<.04	14.8	24.7
May 14...	130	5	35.0	11.2	2.69	50.4	60	.5	120	E.04	<.04	16.4	19.5
Aug 11...	150	4	39.1	13.3	3.20	54.8	72	.3	135	E.08	<.04	16.0	20.9

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 5

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

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Barium, water, unfltrd recover -able, µg/L (01007)	Beryll- ium, water, unfltrd recover -able, µg/L (01012)	Cadmium water, unfltrd recover -able, µg/L (01027)	Chrom- ium, water, unfltrd recover -able, µg/L (01034)
Nov 13...	.31	.066	2.08	.054	.02	.067	.097	2.4	2.4	--	--	--	--
Feb 05...	.28	.035	2.16	.037	.05	.045	.077	2.4	2.5	64.6	<.02	E.05	<.40
May 14...	.29	.030	1.44	.022	.04	.032	.057	1.7	1.8	--	--	--	--
Aug 11...	.21	.011	1.59	.045	.07	.053	.089	1.8	1.9	38.2	<.02	<.06	<.40

01381515 WHIPPANY RIVER AT MALAPARDIS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 5

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

Date	Copper,	Iron,	Lead,	Mangan-	Mercury	Nickel,	Silver,	Zinc,	Arsenic	Arsenic	Boron,	Selen-	Organic
	water,	water,	water,	ese,	water,	water,	water,	water,			water,		ium,
	unfltrd	water,	water,	unfltrd	water,	suspnd							
	recover	fltrd,	unfltrd	recover	unfltrd	sedimnt							
	-able,	μg/L	μg/L	-able,	μg/L	total,							
	μg/L	(01000)	(01002)	μg/L	μg/L	mg/L							
	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)	(01077)	(01092)			(01022)	(01147)	(00689)
Nov 13...	--	--	--	--	--	--	--	--	--	--	--	--	.23
Feb 05...	<4.0	332	.23	129	<.010	.63	<.06	12.8	.21	.20	49	.18	.34
May 14...	--	--	--	--	--	--	--	--	--	--	--	--	.50
Aug 11...	E2.3	323	.43	41.7	<.010	.69	<.06	5.5	.41	.71	64	.19	.32

WATER-QUALITY DATA
WATER YEAR
OCTOBER 2008 TO
SEPTEMBER 2009

Part 5 of 5

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

Date	Organic carbon, water, fltrd, mg/L (00681)
Nov 13...	2.8
Feb 05...	2.1
May 14...	2.5
Aug 11...	2.5

01381515 WHIPPANY RIVER AT MALAPARDIS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 7

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

Date	1-Naphthol, water, fltrd 0.7µ GF µg/L (49295)	2,6-Diethyl-aniline, water, fltrd 0.7µ GF µg/L (82660)	2Chloro-2',6'-diethyl acet-anilide, wat flt µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl-6-methyl-aniline, wat flt µg/L (61620)	3,4-Di-chloro-aniline, water, fltrd, µg/L (61625)	3,5-Di-chloro-aniline, water, fltrd, µg/L (61627)	4-Chloro-2-methyl-phenol, wat flt µg/L (61633)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-Endo-sulfan, water, fltrd, µg/L (34362)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl oxon, water, fltrd, µg/L (61635)
May 14...	<.04	<.006	<.010	<.014	<.010	E.025	<.004	<.005	<.010	<.008	<.006	E.005	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 7

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

Date	Azin-phos-methyl, water, fltrd 0.7µ GF µg/L (82686)	Ben-flur-alin, water, fltrd 0.7µ GF µg/L (82673)	Car-baryl, water, fltrd 0.7µ GF µg/L (82680)	Carbo-furan, water, fltrd 0.7µ GF µg/L (82674)	Chlor-pyrifos, water, fltrd, µg/L (61636)	Chlor-pyrifos, water, fltrd, µg/L (38933)	cis-Per-methrin, fltrd 0.7µ GF µg/L (82687)	cis-Propi-cona-zole, water, fltrd, µg/L (79846)	Cyana-zine, water, fltrd, µg/L (04041)	Cyflu-thrin, water, fltrd, µg/L (61585)	Cyper-methrin, water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7µ GF µg/L (82682)	Desulf-inyl-fipro-nil amide, wat flt µg/L (62169)
May 14...	<.120	<.014	<.200	<.060	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	E.003

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 7

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

Date	Desulf-inyl-fipro-nil, water, fltrd µg/L (62170)	Diazi-non, water, fltrd, µg/L (39572)	Di-chlor-ovos, water, fltrd, µg/L (38775)	Dicro-tophos, water, fltrd, µg/L (38454)	Diel-drin, water, fltrd, µg/L (39381)	Dimeth-oate, water, fltrd 0.7µ GF µg/L (82662)	Disulf-oton sulfone, water, fltrd, µg/L (61640)	Disul-foton, water, fltrd 0.7µ GF µg/L (82677)	Endo-sulfan sulfate, water, fltrd, µg/L (61590)	EPTC, water, fltrd 0.7µ GF µg/L (82668)	Ethion monoxon, water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Etho-prop, water, fltrd 0.7µ GF µg/L (82672)
May 14...	E.008	<.005	<.02	<.08	<.009	<.006	<.01	<.04	<.022	<.004	<.02	<.012	<.016

01381515 WHIPPANY RIVER AT MALAPARDIS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 7

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

Date	Fenami-phos sulfone water, fltrd, µg/L (61645)	Fenami-phos oxide, water, fltrd, µg/L (61646)	Fenami-phos, water, fltrd, µg/L (61591)	Fipro-nil sulfide, water, fltrd, µg/L (62167)	Fipro-nil sulfone, water, fltrd, 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)	lambda-Cyhalo-thrin, water, fltrd, µg/L (61595)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)
May 14...	<.053	<.08	<.03	E.005	E.008	E.031	<.010	<.010	<.014	<.006	<.010	<.080	<.020

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 7

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

Date	Meta-laxyl, water, fltrd, µg/L (61596)	Methid-athion, water, fltrd, µg/L (61598)	Methyl para-oxon, water, fltrd, µg/L (61664)	Methyl para-thion, water, fltrd, 0.7µ GF µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metri-buzin, water, fltrd, µg/L (82630)	Moli-nate, water, fltrd, 0.7µ GF µg/L (82671)	Myclo-butanil, water, fltrd, µg/L (61599)	Oxy-fluor-fen, water, fltrd, µg/L (61600)	Pendi-meth-alin, water, fltrd, 0.7µ GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd, 0.7µ GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)
May 14...	<.007	<.006	<.01	<.008	E.007	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 7

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

Date	Phosmet water, fltrd, µg/L (61601)	Prome-ton, water, fltrd, µg/L (04037)	Prome-tryn, water, fltrd, µg/L (04036)	Pro-panil, water, fltrd, 0.7µ GF µg/L (82679)	Propar-gite, water, fltrd, 0.7µ GF µg/L (82685)	Propy-zamide, water, fltrd, 0.7µ GF µg/L (82676)	Sima-zine, water, fltrd, µg/L (04035)	Tebu-thiuron, water, fltrd, 0.7µ GF µg/L (82670)	Teflu-thrin, water, fltrd, µg/L (61606)	Ter-bufos oxon sulfone, water, fltrd, µg/L (61674)	Terbu-fos, water, fltrd, 0.7µ GF µg/L (82675)	Ter-buthyl-azine, water, fltrd, µg/L (04022)	Thio-bencarb water, fltrd, 0.7µ GF µg/L (82681)
May 14...	<.200	E.01	<.006	<.014	<.02	<.004	E.006	<.02	<.010	<.04	<.02	<.01	<.016

01381515 WHIPPANY RIVER AT MALAPARDIS, NJ—Continued

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO
SEPTEMBER 2009**

Part 7 of 7

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

Date	trans-Propi-conazole, water, fltrd, $\mu\text{g/L}$ (79847)	Tribu-phos, water, fltrd, $\mu\text{g/L}$ (61610)	Tri-flur-alin, water, fltrd 0.7 μ GF $\mu\text{g/L}$ (82661)
May 14...	<.02	<.090	E.005