



Water-Data Report 2007

01368820 DOUBLE KILL AT WAWAYANDA, NJ

HUDSON RIVER BASIN

LOCATION.--Lat 41°11'13", long 74°25'12" referenced to North American Datum of 1983, Vernon Township, Sussex County, NJ, Hydrologic Unit 02020007, 0.3 mi east of Wawayanda, 0.4 mi downstream from Wawayanda Lake, 3.5 mi east of Vernon, and 4.6 mi upstream from Wawayanda Creek.

DRAINAGE AREA.--6.46 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Discharge, in ft ³ /s
Nov 21, 2006	29.8
Feb 22, 2007	3.67
May 14, 2007	2.24
Aug 27, 2007	2.98

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 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: Background and Low Level Mercury Assessment special study site, NJ Department of Environmental Protection Watershed Management Area 2. Samples on May 3 and Aug 13 were for the low level mercury assessment.

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 5

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

Date	Time	Sample type	Turbdty	UV	UV	Baro-	Dis-	Dis-	pH,	Specif-	
			white light, det ang 90+/-30 corctd cfs (00061)	absorb- ance, 254 nm, wat flt units	absorb- ance, 280 nm, wat flt units				water, unfltrd field, std units (00400)		
Nov											
21...	1145	Environmental	30	.7	.138	.103	745	11.7	99	7.6	253
Feb											
22...	1040	Environmental	3.7	1.0	.116	.085	723	13.1	92	7.5	270
May											
03...	0950	<i>Field Blank</i>	--	--	--	--	--	--	--	--	--
03...	1000	Environmental	--	.8	--	--	739	8.2	78	7.7	243
03...	1010	Environmental	--	--	--	--	--	--	--	--	--
14...	1140	Environmental	2.2	1.4	.126	.095	741	8.8	93	7.4	237
Aug											
13...	0950	<i>Field Blank</i>	--	--	--	--	--	--	--	--	--
13...	1000	Environmental	--	1.0	--	--	732	6.3	75	7.5	228
27...	1050	Environmental	3.0	1.1	.130	.096	738	7.4	87	7.1	238
											22.5

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 5

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

Date	Temperature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, mg/L (00915)	Magnes- ium, water, mg/L (00925)	Potas- sium, water, mg/L (00935)	Sodium, water, mg/L (00930)	ANC, wat unf fixed			Chlor- ide pt, lab, mg/L as CaCO ₃ (90410)	Fluor- ide, water, mg/L (00950)	Silica, water, mg/L (00955)	Sulfate water, mg/L (00945)	Residue water, filtr, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat fit mg/L (70300)
							Chlor- ide, lab, mg/L as CaCO ₃ (90410)	Fluor- ide, water, mg/L (00950)	Silica, water, mg/L (00955)						
Nov 21...	7.1	64	16.8	5.24	.99	23.5	52	39.1	<.10	6.1	7.33	130	135		
Feb 22...	1.0	66	17.1	5.63	1.01	25.1	53	40.9	E.09	5.0	9.80	136	151		
May 03...	--	--	--	--	--	--	--	--	--	--	--	--	--		
03...	13.2	--	--	--	--	--	--	--	--	--	--	--	--		
03...	--	--	--	--	--	--	--	--	--	--	--	--	--		
14...	16.5	59	15.3	5.07	.66	22.1	47	35.6	E.06	1.2	9.19	117	135		
Aug 13...	--	--	--	--	--	--	--	--	--	--	--	--	--		
13...	23.7	--	--	--	--	--	--	--	--	--	--	--	--		
27...	21.6	56	14.0	5.14	.68	22.2	46	37.1	E.05	3.6	7.38	118	127		

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 5

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

Date	Residue total non- filter- able, mg/L (00530)	Ammonia		Nitrate	Partic- ulate	Ortho- phos- phate,		Total suspnd sedimnt	Inor- ganic carbon, suspnd sedimnt	Organic carbon, suspnd sedimnt	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, µg/L (01000)	
		+ org-N, water, mg/L as N (00623)	Ammonia water, mg/L as N (00608)	nitrite water mg/L as N (00631)	nitro- gen, susp, water, mg/L as P (49570)	Phos- phorus, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd, mg/L (00666)	Phos- phorus, water, unfltrd, mg/L (00665)	total, mg/L (00694)	total, mg/L (00688)	total, mg/L (00689)		
Nov 21...	3	.24	.025	<.06	<.02	E.004	E.007	.011	.2	<.1	.2	3.8	--
Feb 22...	3	.23	.016	E.03	<.02	E.004	E.004	.009	.2	<.1	.2	3.7	.14
May 03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	1	.32	.022	E.06	.03	E.002	.012	.019	<.1	<.1	<.1	4.2	--
Aug 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	2	.26	.027	E.03	.03	E.004	.013	.020	.2	<.1	.2	4.3	.35

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 5

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

Date	Beryll-		Chrom-				Mangan-				Mercury water, unfiltrd recover (71900)
	Arsenic water, unfiltrd (01002)	Barium, water, unfiltrd (01007)	ium, water, unfiltrd (01012)	Boron, water, unfiltrd (01020)	Boron, water, unfiltrd (01022)	Cadmium water, unfiltrd (01027)	Copper, water, unfiltrd (01034)	Iron, water, unfiltrd (01042)	Lead, water, unfiltrd (01045)	Manganese, water, unfiltrd (01051)	Mercury water, unfiltrd (50286)
Nov 21...	--	--	--	14	--	--	--	--	--	--	--
Feb 22...	.46	8.5	<.06	12	12	<.02	<.60	E.6	44	E.05	22.7
May 03...	--	--	--	--	--	--	--	--	--	--	<.04
03...	--	--	--	--	--	--	--	--	--	--	.78
03...	--	--	--	--	--	--	--	--	--	--	.76
14...	--	--	--	15	--	--	--	--	--	--	--
Aug 13...	--	--	--	--	--	--	--	--	--	--	<.04
13...	--	--	--	--	--	--	--	--	--	--	.68
27...	.44	9.0	<.06	16	17	<.02	<.60	<1.2	137	.10	53.0
											<.010

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 5

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

Date	Nickel, water, unfiltrd (01067)		Silver, Selen- ium, water, unfiltrd (01147)		Zinc, water, unfiltrd (01077)		Methyl- mercury water, unfiltrd (01092)	
	µg/L (01067)	µg/L (01147)	µg/L (01077)	µg/L (01092)	ng/L (50284)			
Nov 21...	--	--	--	--	--	--	--	--
Feb 22...	.54	E.05	<.02	<2	--	--	--	--
May 03...	--	--	--	--	--	--	<.04	--
03...	--	--	--	--	--	--	.05	--
03...	--	--	--	--	--	--	.08	--
14...	--	--	--	--	--	--	--	--
Aug 13...	--	--	--	--	--	--	<.04	--
13...	--	--	--	--	--	--	.22	--
27...	.32	E.05	<.02	<2.0	--	--	--	--

01368820 DOUBLE KILL AT WAWAYANDA, 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, 0.7u GF	2,6-Di-ethyl-aniline, water, 0.7u GF	2Chloro- -2',6'-diethyl acetanilide, water, fltrd	CIAT, water, 0.7u GF	2-Ethyl- -6-methyl-chloro-aniline, water, fltrd,	3,4-Di-chloro-aniline, water, fltrd,	3,5-Di-chloro-aniline, water, fltrd,	4-Chloro- 2methyl-phenol, water, fltrd,	Aceto-chlor, water, fltrd,	Ala-chlor, water, fltrd,	alpha-Endosulfan, water, fltrd,	Atra-zine, water, fltrd,	Azin-phos-methyl oxon, water, fltrd,
	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 14...	<.09	<.006	<.006	<.014	<.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, 0.7u GF	Ben-flur-alin, water, 0.7u GF	Car-baryl, water, 0.7u GF	Carbo-furan, water, 0.7u GF	Chlor-pyrifos, oxon, 0.7u GF	Chlor-pyrifos, water, 0.7u GF	Per-methrin, water, 0.7u GF	Propi-conazole, water, 0.7u GF	Cyana-zine, water, 0.7u GF	Cyflu-thrin, water, 0.7u GF	Lambda-Cyhalothrin, water, 0.7u GF	Cyper-methrin, water, 0.7u GF	DCPA, water, 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 14...	<.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,	Diazi-non, water, fltrd,	Dicrop-tophos, water, fltrd,	Diel-drin, water, fltrd,	Dimeth-oate, water, 0.7u GF	Disulf-ton, sulfone, 0.7u GF	Disul-foton, water, 0.7u GF	Endo-sulfan, sulfate, 0.7u GF	EPTC, water, 0.7u GF	Ethion, monoxon, 0.7u GF	Ethion, water, 0.7u GF	Etho-prop, water, 0.7u GF	Fenami-phos sulfone, water, 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 14...	<.012	<.005	<.08	<.009	<.006	<.01	<.02	<.022	<.002	<.02	<.016	<.012	<.053

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued

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 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)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)
May 14...	<.04	<.03	<.029	<.013	<.024	<.016	<.006	<.026	<.026	<.011	<.039	<.016	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 7

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

Date	Methi-althion water, fltrd, µg/L (61598)	Methyl para-thion, water, fltrd, µg/L (61664)	Methyl para-thion, water, fltrd, µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Moli-nate, water, fltrd, µg/L (82671)	Myclo-butanol water, fltrd, µg/L (61599)	Oxy-fluor-fen, water, fltrd, µg/L (61600)	Pendi-methalin, water, fltrd, µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate oxon, water, fltrd, µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet oxon, water, fltrd, µg/L (61601)
May 14...	<.009	<.02	<.008	E.006	<.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, µg/L (04036)	Propy-zamide, water, fltrd, µg/L (82676)	Propy-panal, water, fltrd, µg/L (82679)	Propar-gite, water, fltrd, µg/L (82685)	Tebu-simazine, water, fltrd, µg/L (04035)	Tebu-thiuron, water, fltrd, µg/L (82670)	Ter-bufos oxon sulfone water, fltrd, µg/L (61606)	Terbu-fos, water, fltrd, µg/L (61674)	Terbutyl-azine, water, fltrd, µg/L (82675)	Ter-benzyl-azine, water, fltrd, µg/L (04022)	Thio-bencarb water, fltrd, µg/L (82681)	trans-Propi-conazole, water, fltrd, µg/L (79847)
May 14...	<.01	<.006	<.004	<.011	<.02	<.006	<.02	<.003	<.04	<.01	<.01	<.010	<.03

01368820 DOUBLE KILL AT WAWAYANDA, 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 14...	<.035	<.009	<.01