



Water-Data Report 2009

01368950 BLACK CREEK NEAR VERNON, NJ

HUDSON RIVER BASIN

LOCATION.--Lat 41°13'21", long 74°28'32" referenced to North American Datum of 1983, Sussex County, NJ, Hydrologic Unit 02020007, at bridge on Maple Grange Road, 0.6 mi upstream of confluence with Wawayanda Creek, 0.7 mi northwest of Maple Grange, and 1.7 mi northeast of Vernon.

DRAINAGE AREA.--17.3 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976-97, 2009.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 2.

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 pressure, 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)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, µS/cm @ 25 degC (00095)	Turbdty white light, det ang 90+/-30 corrctd	Dis-solved solids, dried @ 180degC wat flt (63676)	Dis-solved solids, sum of constituents, mg/L (70300)
Dec												
03...	1030	758	5.0	.148	.110	10.0	71	7.7	582	1.7	1.2	323
Mar												
12...	1030	762	.0	.111	.084	9.7	73	7.9	634	3.4	3.3	341
Jun												
10...	1030	747	21.0	.365	.281	4.7	50	7.6	575	18.4	14	327
Aug												
26...	1030	750	24.5	.430	.329	3.7	42	7.6	692	20.8	6.5	394
												372

01368950 BLACK CREEK NEAR VERNON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 5

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

Date	ANC, wat unf						Total			Inor- ganic			
	Hard- ness, water, mg/L as CaCO ₃ (00900)	Sus- pended solids, water, unfiltrd mg/L (00530)	Calcium water, filtrd, mg/L (00915)	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	end pt, lab, mg/L as CaCO ₃ (90410)	suspnd carbon, mg/L as total, mg/L (00694)	Chlor- ide, sediment water, filtrd, mg/L (00940)	Fluor- ide, water, filtrd, mg/L (00950)	carbo- n, sus- pnd water, mg/L as SiO ₂ (00955)	Sulfate water, filtrd, mg/L (00945)	
Dec 03...	210	<1	50.6	21.3	1.42	40.4	183	.3	68.3	.14	<.04	7.7	13.4
Mar 12...	210	1	48.9	21.4	1.30	49.3	180	.6	87.0	.15	<.04	5.5	12.0
Jun 10...	200	25	47.9	19.9	1.04	39.0	181	2.8	69.6	.12	<.04	8.1	8.02
Aug 26...	260	11	62.3	25.9	1.67	44.4	225	1.3	83.5	.14	<.04	10.7	7.58

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, filtrd, mg/L as N (00623)		Nitrate Ammonia water, filtrd, mg/L as N (00608)	Ortho- phosphate, water, filtrd, mg/L as N (00631)	Partic- ulate nitro- gen, water, susps, mg/L as P (00671)	Phos- phorus, water, filtrd, mg/L as P (49570)	Phos- phorus, water, filtrd, mg/L as P (00666)	Total nitro- gen, water, unfiltrd mg/L (00602)	Total nitro- gen, water, unfiltrd mg/L (00600)	Barium, water, unfiltrd recover -able, μg/L (01007)	Beryll- ium, water, unfiltrd recover -able, μg/L (01012)	Chrom- ium, water, unfiltrd recover -able, μg/L (01034)	
Dec 03...	.29	E.004	.39	E.009	E.02	.012	.018	.68	E.70	--	--	--	--
Mar 12...	.30	.022	.45	E.008	.06	.010	.020	.75	.81	16.7	<.02	<.06	E.32
Jun 10...	.68	--	.17	.014	.29	.031	.083	.85	1.1	--	--	--	--
Aug 26...	.69	.024	.15	.018	.14	.038	.094	.84	.99	23.8	E.02	<.06	E.30

01368950 BLACK CREEK NEAR VERNON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 5

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

Date	Mangan-												Organic carbon, susnd sedimt total, mg/L (00689)
	Copper, water, unfltrd recover -able, μg/L (01042)	Iron, water, unfltrd recover -able, μg/L (01045)	Lead, water, unfltrd recover -able, μg/L (01051)	ese, water, unfltrd recover -able, μg/L (01055)	Mercury water, unfltrd recover -able, μg/L (71900)	Nickel, water, unfltrd recover -able, μg/L (01067)	Silver, water, unfltrd recover -able, μg/L (01077)	Zinc, water, unfltrd recover -able, μg/L (01092)	Arsenic water, filtrd, unfltrd recover -able, μg/L (01000)	Arsenic water, unfltrd recover -able, μg/L (01002)	Boron, water, unfltrd recover -able, μg/L (01022)	Selen- ium, water, unfltrd recover -able, μg/L (01147)	
Dec 03...	--	--	--	--	--	--	--	--	--	--	--	--	.26
Mar 12...	<4.0	324	.26	47.9	<.010	.31	<.06	E1.2	.38	.41	E9	E.08	.64
Jun 10...	--	--	--	--	--	--	--	--	--	--	--	--	2.81
Aug 26...	<4.0	1,380	.52	166	<.010	.85	<.06	E2.0	1.3	2.3	17	.15	1.29

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

Part 5 of 5

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

Date	Organic carbon, water, filtrd, mg/L (00681)
Dec 03...	4.2
Mar 12...	2.9
Jun 10...	8.4
Aug 26...	8.9

01368950 BLACK CREEK NEAR VERNON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 6

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

Date	1-Naph-thol, water, 0.7µ GF	2,6-Di-ethyl-aniline, water, 0.7µ GF	2Chloro-diethyl acetanilide water, 0.7µ GF	2'-6'-CIAT, water, 0.7µ GF	Ethyl-6-methyl- chloroaniline water, 0.7µ GF	3,4-Di-chloro-aniline water, 0.7µ GF	3,5-Di-chloro-aniline water, 0.7µ GF	4-Chloro-2-methyl-phenol, water, 0.7µ GF	Aceto-chlor, water, 0.7µ GF	Ala-chlor, water, 0.7µ GF	alpha-Endo-sulfan, water, 0.7µ GF	Atra-zine, water, 0.7µ GF	Azin-phos-methyl oxon, water, 0.7µ 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)
Jun 10...	M	<.006	<.010	E.017	<.010	<.004	<.004	<.005	E.005	<.008	<.006	.017	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 6

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

Date	Azin-phos-methyl, water, 0.7µ GF	Ben-flur-alin, water, 0.7µ GF	Car-baryl, water, 0.7µ GF	Carbo-furan, water, 0.7µ GF	Chlor-pyrifos water, 0.7µ GF	cis-Per-methrin water, 0.7µ GF	cis-Propi-conazole, water, 0.7µ GF	Cyana-zine, water, 0.7µ GF	Cyflu-thrin, water, 0.7µ GF	Cyper-methrin water, 0.7µ GF	DCPA, water, 0.7µ GF	Desulf-inyl-fipro-nil, water, 0.7µ GF	Desulf-inyl-fipro-nil, water, 0.7µ GF
	µg/L (82686)	µg/L (82673)	µg/L (82680)	µg/L (82674)	µg/L (38933)	µg/L (82687)	µg/L (79846)	µg/L (04041)	µg/L (61585)	µg/L (61586)	µg/L (82682)	µg/L (62169)	µg/L (62170)
Jun 10...	<.120	<.014	E.031	<.060	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	<.012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 6

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Date	Diazi-non, water, 0.7µ GF	Di-chlor-vos, water, 0.7µ GF	Dicro-tophos, water, 0.7µ GF	Diel-drin, water, 0.7µ GF	Dimeth-water, 0.7µ GF	Disulf-oate, 0.7µ GF	Disul-ton, 0.7µ GF	Endo-foton, 0.7µ GF	EPTC, 0.7µ GF	Ethion, 0.7µ GF	Ethion, 0.7µ GF	Etho-prop, 0.7µ GF	Fenami-phos water, 0.7µ GF
	µg/L (39572)	µg/L (38775)	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)
Jun 10...	<.005	<.02	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053

01368950 BLACK CREEK NEAR VERNON, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 6

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

	Fipro-nil	Fipro-nil	Fipro-sulfone	Fonofos	Hexa-zinone,	Ipro-dione,	Isofen-phos,	lambda-Cyhalo-thrin,	Mala-oxon,	Mala-thion,	Meta-laxyl,	Methid-athion,	
Date	water, water, filtrd, μg/L (61591)	water, water, filtrd, μg/L (62167)	water, water, filtrd, μg/L (62168)	water, water, filtrd, μg/L (62166)	water, water, filtrd, μg/L (04095)	water, water, filtrd, μg/L (04025)	water, water, filtrd, μg/L (61593)	water, water, filtrd, μg/L (61594)	water, water, filtrd, μg/L (61595)	water, water, filtrd, μg/L (61652)	water, water, filtrd, μg/L (39532)	water, water, filtrd, μg/L (61596)	water, water, filtrd, μg/L (61598)
Jun 10...	<.03	<.013	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 6

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	Methyl para-thion, water, filtrd, μg/L (61664)	Methyl para-chlor, water, filtrd, μg/L (82667)	Metola-chlor, water, filtrd, μg/L (39415)	Metri-buzin, water, filtrd, μg/L (82630)	Moli-nate, water, filtrd, μg/L (82671)	Myclo-butanil, water, filtrd, μg/L (61599)	Oxy-fluor-fen, water, filtrd, μg/L (61600)	Pendi-meth-alin, water, filtrd, μg/L (82683)	Phorate oxon, water, filtrd, μg/L (61666)	Phorate oxon, water, filtrd, μg/L (82664)	Phosmet water, filtrd, μg/L (61601)	Prometon, water, filtrd, μg/L (04037)	Prometryn, water, filtrd, μg/L (04036)
Date													
Jun 10...	<.01	<.008	.024	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.200	E.01	<.006

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 6

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

	Propanil, water, filtrd, 0.7μ GF μg/L (82679)	Propar-gite, water, filtrd, 0.7μ GF μg/L (82685)	Propy-zamide, water, filtrd, 0.7μ GF μg/L (82676)	Sima-zine, water, filtrd, 0.7μ GF μg/L (04035)	Tebu-thiuron, water, filtrd, 0.7μ GF μg/L (82670)	Teflu-thrin, water, filtrd, 0.7μ GF μg/L (61606)	Terbufos, water, filtrd, 0.7μ GF μg/L (61674)	Terbu-fos, water, filtrd, 0.7μ GF μg/L (82675)	Terbutyl-sulfone, water, filtrd, 0.7μ GF μg/L (04022)	Thio-benzene, water, filtrd, 0.7μ GF μg/L (82681)	Thio-bencarb, water, filtrd, 0.7μ GF μg/L (79847)	Propiconazole, water, filtrd, 0.7μ GF μg/L (61610)	trans-Tribu-alin, water, filtrd, 0.7μ GF μg/L (82661)
Date													
Jun 10...	<.014	<.02	<.004	<.010	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012