



Water-Data Report 2009

01399570 ROCKAWAY CREEK AT MCCREA MILLS, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°39'42", long 74°45'57" referenced to North American Datum of 1983, Readington Township, Hunterdon County, NJ, Hydrologic Unit 02030105, at bridge on Rockaway Road in McCrea Mills, 1.1 mi southwest of Oldwick, 3.1 mi upstream of South Branch Rockaway Creek, and 4.0 mi northeast of Lebanon.

DRAINAGE AREA.--17.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961-65, 2002 to current year. Miscellaneous measurements, water years 2005-09.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Date	Discharge, in ft ³ /s
Dec 2, 2008	19.4
Mar 3, 2009	24.9
Jun 1, 2009	14.1
Jul 16, 2009	17.0
Aug 6, 2009	23.0

01399570 ROCKAWAY CREEK AT MCCREA MILLS, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1961-1962, 1964, 2006, 2009.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 8.

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; M, presence verified but not quantified.]

Date	Time	Baro-metric pressure, 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)	Instan-taneous dis-charge, ft³/s (00061)	Dis-solved oxygen, 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)	Turbdty white light, 90+/-30 NTRU (63676)	Dis-solved solids dried @ 180degC wat flt mg/L (70300)	
Dec 02...	1030	758	6.0	.120	.093	19	13.1	99	7.6	164	3.8	1.3	103
Mar 03...	1045	764	-3.0	.028	.022	25	14.7	101	8.0	215	.1	1.1	132
Jun 01...	1030	760	18.0	.045	.035	14	11.2	107	7.9	179	13.2	.7	140
Aug 06...	0945	756	20.5	.081	.063	23	8.6	91	7.7	177	18.3	77	120

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

Part 2 of 5

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

Date	Dis-solved solids, sum of constituents, mg/L (70301)	Hard-ness, water, mg/L as CaCO ₃ (00900)	Sus-pended solids, water, unfltrd mg/L (00530)	Cal-cium water, fltrd, mg/L (00915)	Magnes-iun, 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 CaCO ₃ (90410)	Total carbon, suspnd sedimnt, mg/L 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) SiO ₂ (00955)	
Dec 02...	E100	56	2	13.6	5.41	1.55	8.19	40	E.2	15.2	E.09	<.04	15.7
Mar 03...	E127	72	3	17.0	7.10	1.19	12.6	46	E.2	23.0	E.06	<.04	16.1
Jun 01...	E113	65	1	15.8	6.08	1.25	9.16	45	E.1	16.9	E.09	<.04	18.3
Aug 06...	E110	59	7	15.1	5.17	1.51	8.60	48	.8	15.1	E.06	M	18.1

01399570 ROCKAWAY CREEK AT MCCREA MILLS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 5

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

Date	Sulfate water, filtrd, mg/L (00945)	Ammonia + org-N, water, filtrd, mg/L as N (00623)	Ammonia water, filtrd, mg/L as N (00608)	Nitrate + nitrite water, filtrd, mg/L as N (00631)	Ortho-phosphate, water, filtrd, mg/L as P (00671)	Particulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, filtrd, mg/L as P (00666)	Phos- phorus, water, unfltrd, mg/L as P (00665)	Total nitro- gen, water, filtrd, mg/L (00602)	Total nitro- gen, water, unfltrd, mg/L (00600)	Barium, water, recover- able, µg/L (01007)	Beryll- ium, water, recover- able, µg/L (01012)	Beryll- ium, water, unfltrd, µg/L (01027)	Cadmium water, unfltrd, µg/L (01027)
Dec 02...	13.4	.19	E.004	.66	E.009	<.02	.013	.013	.85	--	--	--	--	--
Mar 03...	16.6	.13	<.010	1.25	E.007	.02	E.004	E.006	1.4	1.4	21.2	<.02	<.06	
Jun 01...	13.3	.23	.150	1.03	<.010	E.01	.013	.016	1.3	E1.3	--	--	--	
Aug 06...	12.3	.14	<.010	1.05	.017	.07	.019	.075	1.2	1.3	19.4	.03	<.06	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 5

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

Date	Chrom- ium, water, unfltrd recover- able, µg/L (01034)	Copper, water, unfltrd recover- able, µg/L (01042)	Iron, water, unfltrd recover- able, µg/L (01045)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- 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, µg/L (01000)	Arsenic, water, unfltrd, µg/L (01002)	Boron, water, unfltrd recover- able, µg/L (01022)	Selen- ium, water, unfltrd, µg/L (01147)	
Dec 02...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 03...	E.25	<4.0	65	.13	9.2	<.010	.21	<.06	<2.0	.12	E.11	E10	.16	
Jun 01...	--	--	--	--	--	--	--	--	--	--	--	--	--	
Aug 06...	5.6	12.6	4,570	1.53	114	<.010	5.4	<.06	6.2	.25	.46	18	.27	

01399570 ROCKAWAY CREEK AT MCCREA MILLS, NJ—Continued

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

Part 5 of 5

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

Date	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
Dec 02...	.19	3.3
Mar 03...	.17	8.4
Jun 01...	.12	1.4
Aug 06...	.81	2.0

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

Part 1 of 7

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

Date	1-Naph- thol, water, 0.7µ GF	2Chloro- -2',6'- diethyl acet- anilide	2Chloro- -2',6'- diethyl acet- anilide	CIAT, water, filtrd	2- Ethyl- 6- methyl- water, wat flt	3,4-Di- chloro- aniline water, wat flt	3,5-Di- chloro- aniline water, filtrd,	4- Chloro- methyl- phenol, wat flt	Aceto- chlor, water, filtrd,	Ala- chlor, water, filtrd,	alpha- Endo- sulfan, water, filtrd,	Atra- zine, water, filtrd,	Azin- phos- methy- loxon, water, filtrd,
	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 01...	<.04	<.006	<.010	E.052	<.010	<.004	<.004	<.005	E.008	<.008	<.006	.286	<.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, 0.7µ GF	Ben- flur- alin, water, filtrd	Car- baryl, water, filtrd	Carbo- furan, water, filtrd	Chlor- pyrifos oxon, filtrd	Chlor- pyrifos water, filtrd	Per- methrin water, filtrd	cis- con- azole, water, filtrd	Propi- cone, water, filtrd	Cyana- zine, water, filtrd	Cyflu- thrin, water, filtrd	Cyper- methrin water, filtrd	DCPA, water, filtrd	Desulf- inyl- fipro- nil amide, wat flt
	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 (61586)	µg/L (82682)	µg/L (62169)	
Jun 01...	<.120	<.014	<.200	<.060	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029	

01399570 ROCKAWAY CREEK AT MCCREA MILLS, NJ—Continued

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- vos, 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	Disulf- oton sulfone water, fltrd 0.7μ GF	Disul- foton, water, fltrd 0.7μ GF	Endo- sulfan sulfate water, fltrd 0.7μ GF	EPTC, water, fltrd 0.7μ GF	Ethion monoxon water, fltrd 0.7μ GF	Ethion, water, fltrd 0.7μ GF	Etho- prop, water, fltrd 0.7μ GF
Jun 01...	<.012	<.005	<.02	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016

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- xon, water, fltrd, μg/L (61652)	Mala- thion, water, fltrd, μg/L (39532)
Jun 01...	<.053	<.08	<.03	<.013	<.024	<.040	<.010	<.008	<.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- thion, water, fltrd, μg/L (61664)	Methyl para- oxon, water, fltrd, μg/L (82667)	Metola- chlor, water, fltrd, μg/L (39415)	Metri- buzin, water, fltrd, μg/L (82630)	Moli- nate, water, fltrd 0.7μ GF	Myclo- butanil water, fltrd, μg/L (82671)	Oxy- fluor- fen, water, fltrd 0.7μ GF	Pendi- meth- alin, water, fltrd 0.7μ GF	Phorate oxon, water, fltrd 0.7μ GF	Phorate water, fltrd 0.7μ GF	Phosmet oxon, water, fltrd μg/L (61668)
Jun 01...	<.008	<.006	<.01	<.008	.019	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05

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01399570 ROCKAWAY CREEK AT MCCREA MILLS, NJ—Continued

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- amide, water, fltrd 0.7μ GF μg/L (82676)	Tebu- zine, water, fltrd 0.7μ GF μg/L (04035)	Teflu- thiuron water, fltrd 0.7μ GF μg/L (82670)	Ter- bufos oxon sulfone water, fltrd 0.7μ GF μg/L (61606)	Terbu- fos, water, fltrd 0.7μ GF μg/L (61674)	Ter- butyl- azine, water, fltrd 0.7μ GF μg/L (82675)	Thio- bencarb water, fltrd 0.7μ GF μg/L (82681)	
Jun 01...	<.200	<.01	<.006	<.014	<.02	<.004	E.007	<.02	<.010	<.04	<.02	<.01	<.016

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO
SEPTEMBER 2009

Part 7 of 7

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

Date	trans- Propi- con- azole, water, fltrd, μg/L (79847)	Tri- flur- Tribu- phos, water, fltrd 0.7μ GF μg/L (61610)	alin, water, fltrd 0.7μ GF μg/L (82661)
Jun 01...	<.02	<.035	<.012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 4

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

Date	Mois- ture, <2 mm, wsv nat fld dry percent (49282)	Inor- Total bed sed bed bed sedimnt std units (70310)	Phos- ganic carbon, bed bed sedimnt total, mg/kg (00693)	Chrom- Cadmium bed bed sedimnt recover as P (00686)	Cobalt bed bed sedimnt recover μg/g (01028)	Copper, bed bed sedimnt recover μg/g (01038)	Iron, bed bed sedimnt total digest, μg/g (01043)	Lead, bed bed sedimnt recover -able, -able, -able, -able, μg/g (01170)	Mangan- ese, bed bed sedimnt recover -able, -able, -able, -able, μg/g (01052)	Mercury bed bed sedimnt recover -able, -able, -able, -able, μg/g (71921)			
Aug 06...	26	7.43	1.0	<.2	E190	.050	20	4.9	13	14,000	6.2	130	<.007

01399570 ROCKAWAY CREEK AT MCCREA MILLS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 4

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

Date	Nickel, bed sedimnt -able, µg/g (01068)	Zinc, bed sedimnt recover -able, µg/g (01093)	Arsenic bed sedimnt recover -able, µg/g (64847)	Sele- nium, bed sedimnt recover -able, µg/g (64848)	p- Cresol, <2 mm, wsv nat field, sedimnt µg/kg (49451)	1,2-Di- methyl- naphth- PCBs, bed sedimnt <2 mm, bed sedimnt µg/kg (39519)	1,6-Di- methyl- naphth- alene, bed sed bed sed <2 mm, bed sed	1Methyl -9H- fluor- phenan- threne, bed sed <2 mm, bed sed	1- Methyl- pyrene, wsv nat µg/kg (49398)	236Tri- methyl- naphth- alene, bed sed <2 mm, bed sed	2,6-Di- methyl- naphth- alene, bed sed <2 mm, bed sed		
Aug 06...	9.8	37	1.2	.2	<55	<5.00	E1	E2	E18	E22	E7	E5	E2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 4

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

Date	2-Ethyl naphth- alene <2 mm, wsv nat µg/kg (49948)	2-Methyl anthra- cene, <2 mm, bed sed <2 mm, bs <2mm µg/kg (49435)	4H-Cyc-lopenta [def]- threne, <2 mm, wsv nat µg/kg (49411)	9H-Fluor- ene, bed sed <2 mm, wsv nat µg/kg (49399)	Ace- naphth- ene, bed sed <2 mm, wsv nat µg/kg (49429)	Ace- naphth- ylene, bed sed <2 mm, wsv nat µg/kg (49428)	Anthra- cene, bed sed <2 mm, wsv nat µg/kg (49434)	Benz- [a]- anthra- pyrene, bed sed <2 mm, wsv nat µg/kg (49436)	Benz- [a]- fluor- ene, bed sed <2 mm, wsv nat µg/kg (49389)	Benz- [b]- anthene, bed sed <2 mm, wsv nat µg/kg (49458)	Benz- [ghi]- peryl- ene, bed sed <2 mm, wsv nat µg/kg (49408)	Benz- [k]- fluor- field, <2 mm, wsv nat µg/kg (49397)	Chry- sene, bed sed <2 mm, wsv nat µg/kg (49450)
Aug 06...	E1	E4	E45	E16	E7	E14	67	190	170	210	E93	97	190

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 4

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

Date	Dibenzo -[a,h]- anthra- cene, <2 mm, bed sed <2 mm, field, µg/kg (49461)	Fluor- anthene bed sed wsv nat µg/kg (49466)	Indeno- [1,2,- 3-cd]- pyrene, bed sed bed sed wsv nat µg/kg (49390)	Iso- phorone <2 mm, bed sed wsv nat field, wsv nat µg/kg (49400)	Naphth- alene, bed sed <2 mm, wsv nat field, wsv nat µg/kg (49402)	Phenan- threne, bed sed <2 mm, wsv nat field, wsv nat µg/kg (49409)	Phenan- threne, bed sed <2 mm, wsv nat field, wsv nat µg/kg (49393)	Pyrene, bed sed <2 mm, wsv nat field, <0.0625 µg/kg (49387)	Bed sedimnt dry svd sve dia percent mm
Aug 06...	E30	440	E94	<55	E3	230	E2	390	1