

Water-Data Report 2006

01395500 ROBINSONS BRANCH AT GOODMAN'S CROSSING, NJ

RAHWAY RIVER BASIN

LOCATION.--Lat 40°36'55", long 74°20'20" referenced to North American Datum of 1983, Scotch Plains Borough, Union County, NJ, Hydrologic Unit 02030104, at bridge on Goodmans Crossing at GoodmansCrossing, 250 ft downstream of bridge on Lake Avenue, 0.7 mi northwest of Clark, and 2.0 mi southeast of Scotch Plains.

DRAINAGE AREA.--12.7 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1923 and 2005 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). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Statewide Status and Low-Level Mercury Assessment special study site, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 7. Samples on Oct. 13 and Dec. 13 were for the low-level mercury assessment.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 5

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

Date	Time	Sample type	Turbdty white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L	Dis- solved oxygen, percent of sat- uration	pH, water, unfltrd field, units	Specif. conduc- tance, mho/cm	Temper- ature, air, deg C	Temper- ature, water, deg C
		NTRU (63676)	/cm (50624)	/cm (61726)	(00025)	(00300)	(00301)	(00400)	25 degC (00095)	(00020)	(00010)	
Oct												
13...	1245	Field Blank	--	--	--	--	--	--	--	--	--	
13...	1315	Environmental	8.9	--	--	765	6.6	64	6.8	141	16.0	
Nov												
30...	0930	Environmental	19	.432	.350	757	6.1	59	7.0	165	15.0	
Dec												
13...	1000	Field Blank	--	--	--	--	--	--	--	--	--	
13...	1030	Environmental	5.3	--	--	766	8.2	57	7.1	948	-2.3	
Mar												
14...	0930	Environmental	6.2	.303	.228	745	7.3	69	7.3	829	6.0	
Jun												
01...	1000	Environmental	9.5	.289	.216	762	4.1	46	7.4	585	23.5	
Aug												
30...	1000	Environmental	5.1	.400	.316	759	4.0	44	6.8	312	20.0	
											19.3	

01395500 ROBINSONS BRANCH AT GOODMAN'S CROSSING, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

Date	Hardness, water, mg/L as CaCO ₃ (00900)	ANC, wat unf						Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	
		Calcium water, mg/L (00915)	Magnes- ium, water, mg/L (00925)	Potas- sium, water, mg/L (00935)	Sodium, water, mg/L (00930)	fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chlor- ide, water, mg/L (00940)	Fluor- ide, water, mg/L (00950)	Silica, water, mg/L (00955)	Sulfate, water, mg/L (00945)	
Oct											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
Nov											
30...	51	15.8	2.82	2.97	7.80	33	11.4	E.07	5.2	18.4	86
Dec											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
Mar											
14...	180	58.1	9.46	2.62	80.7	108	155	.11	6.0	42.6	422
Jun											
01...	220	68.2	12.2	2.24	27.9	171	56.1	.12	18.7	31.4	323
Aug											
30...	100	32.6	5.24	2.46	14.4	45	18.3	E.07	10.1	61.0	174
											202
											5

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Nitrite Ammonia water, fltrd, mg/L as N (00608)	Partic- ulate nitro- gen, susp., water, mg/L (00631)	Total nitro- gen, water, fltrd, mg/L (49570)	Total nitro- gen, water, unfltrd mg/L (00602)	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 total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
Oct												
13...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
Nov												
30...	.66	.087	.28	.18	.94	1.1	.067	.10	.19	1.3	<.1	1.3
Dec												
13...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
Mar												
14...	2.4	.132	.51	.13	2.9	3.0	.023	E.04	.10	1.2	<.1	1.2
Jun												
01...	1.4	.524	.37	.15	1.8	1.9	.150	.18	.41	1.2	<.1	1.2
Aug												
30...	.74	.149	.45	.07	1.2	1.3	.066	.09	.17	.7	<.1	.7
												8.5

01395500 ROBINSONS BRANCH AT GOODMAN'S CROSSING, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	BOD, water, unfltrd 5 day, 20 degC	Arsenic water, fltrd, (01000)	Arsenic water, unfltrd (01002)	Barium, water, recover -able, (01007)	Beryll- ium, water, recover -able, (01012)	Boron, water, unfltrd filtrd, (01020)	Boron, water, unfltrd recover -able, (01022)	Cadmium water, unfltrd (01027)	Chrom- ium, water, unfltrd recover -able, (01034)	Copper, water, unfltrd recover -able, (01042)	Iron, water, unfltrd recover -able, (01045)	Lead, water, unfltrd recover -able, (01051)	Mangan- ese, water, unfltrd recover -able, (01055)
	mg/L (00310)	ug/L (01000)	ug/L (01002)	ug/L (01007)	ug/L (01012)	ug/L (01020)	ug/L (01022)	ug/L (01027)	ug/L (01034)	ug/L (01042)	ug/L (01045)	ug/L (01051)	ug/L (01055)
Oct													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Nov													
30...	3.7	--	--	--	--	55	--	--	--	--	--	--	--
Dec													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar													
14...	<1.0	1.1	1.3	92.2	E.03	85	88	.04	.53	3.2	1,070	1.12	330
Jun													
01...	.0	--	--	--	--	116	--	--	--	--	--	--	--
Aug													
30...	2.9	1.5	2.3	55.3	<.06	107	99	.10	.57	6.4	1,010	1.45	199

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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

Date	Mercury water, unfltrd filtrd, recover low level, ng/L (50287)	Nickel, water, unfltrd recover -able, ug/L (71900)	Selen- ium, water, unfltrd recover -able, ug/L (01147)	Silver, water, unfltrd recover -able, ug/L (01077)	Zinc, water, unfltrd recover -able, ug/L (01092)
	ug/L (50287)	ug/L (71900)	ug/L (01147)	ug/L (01077)	ug/L (01092)
Oct					
13...	.09	--	--	--	--
13...	4.66	--	--	--	--
Nov					
30...	--	--	--	--	--
Dec					
13...	<.04	--	--	--	--
13...	.59	--	--	--	--
Mar					
14...	--	<.010	2.06	.24	<.16
Jun					
01...	--	--	--	--	--
Aug					
30...	--	E.006	2.81	.31	<.16
					37

01395500 ROBINSONS BRANCH AT GOODMAN'S CROSSING, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

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

Date	Time	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-DB water, water, fltrd, ug/L (39732)	CIAT, 0.7u GF ug/L (38746)	CEAT, water, fltrd, ug/L (04040)	OIET, water, fltrd, ug/L (04038)	Hydroxy carbo-furan, wat flt ug/L (50355)	3-Hydroxy furan, water, fltrd ug/L (49308)	Aci-fluor-fen, water, fltrd ug/L (49315)	Aldi-carb sulfone, water, fltrd ug/L (49313)	Aldi-carb sulf-oxide, water, fltrd ug/L (49314)	Aldi-carb, water, fltrd ug/L (49312)	Atra-zine, water, fltrd ug/L (39632)
Jun 01...	1000	<.190	.10	<.02	<.03	<.08	<.032	<.008	<.028	<.02	<.102	<.15	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

Date	Bendio-carb, water, fltrd, ug/L (50299)	Benomyl, water, fltrd, ug/L (50300)	Bensulfuron-methyl, water, fltrd, ug/L (61693)	Ben-tazon, water, fltrd, 0.7u GF ug/L (38711)	Bromo-cil, water, fltrd, 0.7u GF ug/L (04029)	Bromoxynil, water, fltrd, 0.7u GF ug/L (49311)	Caf-feine, water, fltrd, 0.7u GF ug/L (50305)	Car-baryl, water, fltrd, 0.7u GF ug/L (49310)	Carbo-furan, water, fltrd, 0.7u GF ug/L (49309)	Chlor-amben methyl, water, fltrd, 0.7u GF ug/L (61188)	Chlorimuron, water, fltrd, 0.7u GF ug/L (50306)	Chloro-di-amino-s-triazine, water, fltrd, 0.7u GF ug/L (04039)	Clopyralid, water, fltrd, 0.7u GF ug/L (49305)
Jun 01...	<.08	<.022	<.02	<.02	<.02	<.04	<.018	M	<.016	<.02	<.032	<.04	<.07

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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

Date	Dacthal mono-acid, water, fltrd, 0.7u GF ug/L (04031)	Dicamba, water, fltrd, 0.7u GF ug/L (49304)	Di-chlor-prop, water, fltrd, 0.7u GF ug/L (38442)	Dinoseb, water, fltrd, 0.7u GF ug/L (49302)	Diphen-amid, water, fltrd, 0.7u GF ug/L (49301)	Diuron, water, fltrd, 0.7u GF ug/L (04033)	Fenuron, water, fltrd, 0.7u GF ug/L (49300)	Flumet-sulam, water, fltrd, 0.7u GF ug/L (49297)	Fluo-meturon, water, fltrd, 0.7u GF ug/L (61694)	Imaza-quin, water, fltrd, 0.7u GF ug/L (38811)	Imaza-thapyr, water, fltrd, 0.7u GF ug/L (50356)	Imida-cloprid, water, fltrd, 0.7u GF ug/L (50407)	Imida-cloprid, water, fltrd, 0.7u GF ug/L (61695)
Jun 01...	<.01	<.03	<.04	<.03	<.04	<.01	E.01	<.10	<.04	<.02	<.04	<.04	<.020

01395500 ROBINSONS BRANCH AT GOODMAN'S CROSSING, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	Linuron water, fltrd 0.7u GF ug/L (38478)	MCPA, water, fltrd 0.7u GF ug/L (38482)	MCPB, water, fltrd 0.7u GF ug/L (38487)	Meta- laxyl, water, fltrd, 0.7u GF ug/L (50359)	Methio- carb, water, fltrd 0.7u GF ug/L (38501)	Meth- omyl, water, fltrd 0.7u GF ug/L (49296)	Metsul- furon, water, fltrd, 0.7u GF ug/L (61697)	Chloro- phenyl) methyl- urea, water, fltrd 0.7u GF ug/L (61692)	Nico- sul- furon, water, fltrd 0.7u GF ug/L (49294)	Norflur- azin, water, fltrd 0.7u GF ug/L (49293)	Ory- zalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)
								N-(4-				
Jun 01...	<.01	<.07	<.10	<.03	<.034	<.070	<.07	<.04	<.01	<.04	<.02	<.05

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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

Date	Pic- loram, water, fltrd 0.7u GF ug/L (49291)	Propham water, fltrd 0.7u GF ug/L (49236)	Propi- conazole, water, fltrd, 0.7u GF ug/L (50471)	Pro- poxur, water, fltrd 0.7u GF ug/L (38538)	Sulfo- ruron, water, fltrd, 0.7u GF ug/L (38548)	Tebu- thiuron, water, fltrd 0.7u GF ug/L (50337)	Teba- cil, water, fltrd 0.7u GF ug/L (82670)	Terba- cetyl, water, fltrd 0.7u GF ug/L (04032)	Tri- clopyr, water, fltrd 0.7u GF ug/L (49235)		
					Sulfo- ruron, water, fltrd 0.7u GF ug/L (38537)						
Jun 01...	<.03	<.030	<.01	<.008	.04	<.090	<.026	<.026	<.03		

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Date	Time	Enter- occi, m-E		E coli, m-TEC		Fecal coli- form, ECbroth	
		Temper- ature, water, deg C (00010)	100 mL (31649)	MF, water, col/ col/	MF, water, col/ col/	100 mL (31633)	100 mL (31615)
Jul 19...	0945	23.2	4,200	11,000	16,000		
	26...	0950	22.5	440	4,600	2,400	
Aug 02...	1020	27.4	860	400	2,400		
	09...	1020	23.1	640	1,700	2,200	
	23...	1140	22.6	330	30	300	