

## Water-Data Report 2007

**01398110 HOLLAND BROOK AT SOUTH BRANCH, NJ**

RARITAN RIVER BASIN

LOCATION.--Lat 40°33'11", long 74°42'02" referenced to North American Datum of 1983, Somerset County, NJ, Hydrologic Unit 02030105, at bridge on South Branch Road (County Route 567), 0.6 mi north of South Branch, 0.6 mi upstream of mouth, and 1.2 mi downstream of bridge on U.S. Route 202.

DRAINAGE AREA.--12.2 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1976-78, 2007.

REMARKS.--Cooperative Network Site Descriptor: Pesticide Assessment special study site.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	Baro- metric pres- sure, NTRU (63676)	Dis- solved oxygen, oxygen, mm Hg (00025)	pH, water, percent of sat- uration mg/L (00300)	unfiltrd field, std units (00301)	Specif- ic conduc- tance, wat unf μS/cm (00400)	Temper- ature, air, 25 degC deg C (00095)	Temper- ature, water, deg C (00020)	Temper- ature, water, deg C (00010)
Jul 03...	1030	9.1	766	9.5	100	7.8	389	24.5	17.8	

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 7

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

Date	1-Naph- thol, water, 0.7u GF	2,6-Di- ethyl- aniline water, fltrd	2Chloro- -2',6'- diethyl acet- anilide water, wat flt	2-Ethyl -6- methyl- CIAT, water, fltrd,	3,4-Di- chloro- aniline water, fltrd,	3,5-Di- chloro- aniline water, fltrd,	2methyl phenol, water, fltrd,	Aceto- chlor, water, fltrd,	Ala- chlor, water, fltrd,	alpha- Endo- sulfan, water, fltrd,	Atra- zine, water, fltrd,	Azin- phos- methyl	
Jul 03...	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)

Jul 03...	<.09	<.006	<.006	E.011	<.010	<.004	<.012	<.005	<.006	<.005	<.011	.011	<.04
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## 01398110 HOLLAND BROOK AT SOUTH BRANCH, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 7

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

Date	Azin-phos-methyl, water, fltrd 0.7u GF	Ben-flur-alin, water, fltrd 0.7u GF	Car-baryl, water, fltrd 0.7u GF	Carbo-furan, water, fltrd 0.7u GF	Chlor-pyrifos oxon, water, fltrd, 0.7u GF	Chlor-pyrifos water, fltrd, 0.7u GF	cis-Per-methrin water 0.7u GF	cis-Propi-conazole, water, fltrd, 0.7u GF	Cyana-zine, water, fltrd, 0.7u GF	Cyflu-thrin, water, fltrd, 0.7u GF	lambda-Cyhalothrin, water, fltrd, 0.7u GF	Cyper-methrin water, fltrd, 0.7u GF	DCPA, water, fltrd 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)
Jul 03...	<.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: &lt;, less than; E, estimated.]

Date	Desulf-inyl-fipro-nil, water, fltrd, 0.7u GF	Diazi-non, water, fltrd, 0.7u GF	Dicro-tophos, water, fltrd, 0.7u GF	Diel-drin, water, fltrd, 0.7u GF	Dimeth-oate, water, fltrd 0.7u GF	Disulf-oton sulfone water, fltrd 0.7u GF	Disul-foton, water, fltrd 0.7u GF	Endo-sulfan sulfate water, fltrd 0.7u GF	EPTC, water, fltrd 0.7u GF	Ethion monoxon water, fltrd 0.7u GF	Ethion, water, fltrd 0.7u GF	Etho-prop, water, fltrd, 0.7u GF	Fenami-phos sulfone water, fltrd, 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)
Jul 03...	<.012	<.005	<.08	<.009	<.006	<.01	<.02	<.022	<.002	<.02	<.016	<.012	<.053

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 4 of 7

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

Date	Fenami-phos sulfide, water, fltrd, 0.7u GF	Desulf-inyl-fipro-nil, water, fltrd, 0.7u GF	Fipro-nil sulfide water, fltrd 0.7u GF	Fipro-nil sulfone water, fltrd 0.7u GF	Fipro-nil water, fltrd 0.7u GF	Fonofos water, fltrd 0.7u GF	Hexa-zinone, water, fltrd 0.7u GF	Ipro-dione, water, fltrd 0.7u GF	Isofen-phos water, fltrd 0.7u GF	Mala-oxon, water, fltrd 0.7u GF	Mala-thion, water, fltrd 0.7u GF	Meta-laxyl, water, fltrd 0.7u GF	
	µg/L (61646)	µg/L (61591)	µg/L (62169)	µg/L (62167)	µg/L (62168)	µg/L (62166)	µg/L (04095)	µg/L (04025)	µg/L (61593)	µg/L (61594)	µg/L (61652)	µg/L (39532)	µg/L (61596)
Jul 03...	<.04	<.03	<.029	<.013	<.024	<.016	<.006	<.026	<.026	<.011	<.039	<.016	.050

## 01398110 HOLLAND BROOK AT SOUTH BRANCH, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 5 of 7

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

Date	Methi-	Methyl	Methyl	para-	Metola-	Moli-	Oxy-	Pendi-	meth-	Phorate	Phorate	Phosmet
	althion	oxon,	para-	thion,	chlor,	buzin,	nate,	fluor-	alin,	oxon,	water,	oxon,
	water,	fen,	water,	water,	water,	water,						
	fltrd,	fltrd,	0.7u GF	fltrd,	fltrd,	0.7u GF	fltrd,	fltrd,	0.7u GF	fltrd,	0.7u GF	fltrd,
Date	µg/L											
	(61598)	(61664)	(82667)	(39415)	(82630)	(82671)	(61599)	(61600)	(82683)	(61666)	(82664)	(61668)
Jul												
03...	<.009	<.02	<.008	<.010	<.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: &lt;, less than; E, estimated.]

Date	Prome-	Propy-	Pro-	Propar-	Tebu-	Ter-	trans-		
	ton,	amide,	panil,	gite,	simazine,	bufos	terbu-	Thio-	Propi-
	water,	water,	water,	water,	thiuron	oxon	fos,	bencarb	conazole,
	fltrd,	fltrd,	0.7u GF	0.7u GF	0.7u GF	0.7u GF	0.7u GF	0.7u GF	0.7u GF
Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	(04037)	(04036)	(82676)	(82679)	(82685)	(04035)	(82670)	(61606)	(61674)
Jul									
03...	.01	<.006	<.004	<.011	<.02	<.006	<.02	<.003	<.04
									E.01

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO**  
**SEPTEMBER 2007**

Part 7 of 7

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

Date	Tri-	Di-	
	tribu-	alin,	chlor-
	phos,	water,	vos,
	water,	filtrd	water,
	filtrd,	0.7u GF	filtrd,
Date	µg/L	µg/L	µg/L
	(61610)	(82661)	(38775)
Jul			
03...	<.035	<.009	<.01