

## Water-Data Report 2006

**01408598 SUNKEN BRANCH NEAR TOMS RIVER, NJ**

TOMS RIVER BASIN

LOCATION.--Lat 39°58'03", long 74°14'32" referenced to North American Datum of 1983, Berkeley Township, Ocean County, NJ, Hydrologic Unit 02040301, at bridge on Mule Road, 0.4 mi upstream of Wrangle Brook, 0.4 mi southwest of State Highway 37, and 0.5 mi northwest of Silver Ridge Park.

DRAINAGE AREA.--4.58 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 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, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 13.

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: &lt;, less than; E, estimated.]

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt	UV absorb- ance, 280 nm, wat flt	Baro- metric pressure, mm Hg	Dissolved oxygen, mg/L (00025)	pH, percent of sat- uration (00300)	Specif. water, unfltrd field, std (00400)	Conduc- tance, wat unf uS/cm (00095)	Temper- ature, deg C (00020)	Temper- ature, air, deg C (00010)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO <sub>3</sub> (00900)	Calciu m water, fltrd, mg/L (00915)
Nov 09...	1000	4.2	.277	.218	764	7.1	67	6.1	124	14.4	12.6	17	4.58	
Feb 02...	1030	5.7	.259	.206	760	10.6	84	6.0	131	7.5	5.4	14	3.87	
May 10...	0900	3.1	.258	.204	760	8.7	89	6.1	149	17.1	16.5	15	4.19	
Aug 16...	0900	3.7	.120	.091	764	6.0	70	5.6	137	22.3	22.8	19	5.16	

## 01408598 SUNKEN BRANCH NEAR TOMS RIVER, NJ—Continued

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

Part 2 of 5

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

Date	ANC, wat unf						Residue water, fltrd,		Residue on evap.		Residue total		Ammonia + org-N, water, fltrd, mg/L as N (00623)	
	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	fixed end pt, lab, mg/L as CaCO <sub>3</sub>	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	consti- tuents (70301)	180degC wat flt (70300)	sus- pended, (00530)	at 105 deg. C, mg/L (00623)	Ammonia water, fltrd, mg/L (00608)	
Nov 09...	1.26	1.19	13.4	7	22.0	<.10	3.2	8.33	59	73	4	.45	.132	
Feb 02...	1.11	.89	17.2	6	27.4	<.10	1.9	7.89	66	70	6	.36	.119	
May 10...	1.15	.69	18.8	9	29.2	E.07	.4	6.84	67	87	4	.33	.028	
Aug 16...	1.39	1.22	15.7	11	27.2	<.10	1.3	6.12	66	80	4	.30	.066	

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

Part 3 of 5

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

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, water, fltrd, mg/L (49570)	Total nitro- gen, water, unfltrd mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, susnd sediment mg/L (00694)	Inor- ganic carbon, susnd sediment mg/L (00688)	Organic carbon, susnd sediment mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, mg/L (00310)	Arsenic water, fltrd, ug/L (01000)
Nov 09...	.25	.15	.70	.85	E.003	.009	.027	1.1	<.1	1.1	5.9	E1.2	--
Feb 02...	.34	.18	.70	.88	E.005	.005	.016	1.1	<.1	1.1	4.3	<1.0	.19
May 10...	<.06	.14	--	--	E.005	.014	.030	.9	<.1	.9	4.6	E1.5	--
Aug 16...	.30	.14	.60	.74	<.010	E.002	.015	1.4	<.1	1.4	4.0	<1.0	.23

## 01408598 SUNKEN BRANCH NEAR TOMS RIVER, NJ—Continued

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

Part 4 of 5

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

Date	Beryll-			Chrom-			Mangan-					
	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd ug/L (01007)	ium, water, unfltrd ug/L (01012)	Boron, water, unfltrd ug/L (01020)	Boron, water, unfltrd ug/L (01022)	Cadmium water, unfltrd ug/L (01027)	ium, water, unfltrd ug/L (01034)	Copper, water, unfltrd ug/L (01042)	Iron, water, unfltrd ug/L (01045)	Lead, water, unfltrd ug/L (01051)	ese, water, unfltrd ug/L (01055)	Mercury water, unfltrd ug/L (71900)
Nov 09...	--	--	--	15	--	--	--	--	--	--	--	--
Feb 02...	.55	17.4	E.04	13	10	.06	.62	1.5	1,320	.54	43.6	.056
May 10...	--	--	--	13	--	--	--	--	--	--	--	--
Aug 16...	.41	13.4	<.06	16	16	E.02	.17	E.6	2,230	.26	45.9	E.007

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

Part 5 of 5

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

Date	Silver, Zinc,		
	Selen- ium, water, unfltrd ug/L (01147)	water, unfltrd ug/L (01077)	water, unfltrd ug/L (01092)
Nov 09...	--	--	--
Feb 02...	.17	<.16	16
May 10...	--	--	--
Aug 16...	.11	<.16	6

## 01408598 SUNKEN BRANCH NEAR TOMS RIVER, NJ—Continued

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

Part 1 of 5

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

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	CEAT, water, fltrd, ug/L (04040)	OIET, water, fltrd, ug/L (04038)	Hydroxy carbo-furan, wat flt	Aci-fluor-fen, water, fltrd	Aldi-carb sulfone, water, fltrd	Aldi-carb sulf-oxide, wat flt	Aldi-carb, water, fltrd, ug/L (49314)	Atri-zine, water, fltrd, ug/L (39632)
May 10...	0900	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.028	<.02	<.022	<.04 E.003

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

Part 2 of 5

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

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	Bromo-cil, water, fltrd, ug/L (38711)	Bromoxynil, water, fltrd, 0.7u GF	Caf-feine, water, fltrd, ug/L (49311)	Car-baryl, water, fltrd, 0.7u GF	Carbo-furan, water, fltrd, ug/L (50305)	Chlor-amben methyl, water, fltrd, ug/L (49310)	Chlor-muron, water, fltrd, ug/L (49309)	Chlor-di-amino-s-triazine, water, fltrd, ug/L (61188)	Chloro-alid, water, fltrd, ug/L (50306)	Clopyralid, water, fltrd, ug/L (04039) (49305)
May 10...	<.02	<.022	<.02	<.01	<.02	<.03	E.015	E.02	<.016	<.02	<.032	<.04	<.02	

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

Part 3 of 5

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

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

## 01408598 SUNKEN BRANCH NEAR TOMS RIVER, NJ—Continued

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

Part 4 of 5

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

Date	Linuron water, filtrd 0.7u GF ug/L (38478)	MCPA, water, filtrd 0.7u GF ug/L (38482)	MCPB, water, filtrd 0.7u GF ug/L (38487)	Meta- laxyl, water, filtrd, 0.7u GF ug/L (50359)	Methio- carb, water, filtrd 0.7u GF ug/L (38501)	Meth- omyl, water, filtrd 0.7u GF ug/L (49296)	Metsul- furon, water, filtrd, 0.7u GF ug/L (61697)	Chloro- phenyl) methyl- urea, water, filtrd 0.7u GF ug/L (61692)	Neburon water, filtrd, 0.7u GF ug/L (49294)	Nico- sul- furon, water, filtrd, 0.7u GF ug/L (50364)	Norflur azon, water, filtrd 0.7u GF ug/L (49293)	Ory- zalin, water, filtrd 0.7u GF ug/L (49292)	Oxamyl, water, filtrd 0.7u GF ug/L (38866)
					N-(4-								
May 10...	<.01	E.02	<.01	<.01	<.010	<.020	<.07	<.04	<.01	<.04	<.02	<.01	<.03

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

Part 5 of 5

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

Date	Pic- loram, water, filtrd 0.7u GF ug/L (49291)	Propham water, filtrd 0.7u GF ug/L (49236)	Propi- conazole, water, filtrd, 0.7u GF ug/L (50471)	Pro- poxur, water, filtrd 0.7u GF ug/L (38538)	Sulfo- ruron, water, filtrd, 0.7u GF ug/L (38548)	Tebu- thiuron water, filtrd, 0.7u GF ug/L (50337)	Teba- cil, water, filtrd 0.7u GF ug/L (82670)	Tri- clopyr, water, filtrd 0.7u GF ug/L (04032)	Terba- cill, water, filtrd 0.7u GF ug/L (49235)
	Sulfo- ruron, water, filtrd, 0.7u GF ug/L (50337)								
May 10...	<.03	<.030	<.01	<.008	.07	<.091	<.026	<.016	<.03

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

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

Date	Time	Enter- occi, m-E Temp- erature, water, deg C 100 mL (00010)	E coli, m-TEC MF, water, col/ 100 mL (31649)	Fecal coli- form, MF, water, col/ 100 mL (31633)	ECbroth MPN/ 100 mL (31615)
		Enter- occi, m-E Temp- erature, water, deg C 100 mL (00010)			
Aug					
02...	0750	27.7	140	100	1,300
09...	0800	23.8	60	200	500
16...	0750	22.1	20	<10	40
23...	0800	20.9	<10	400	40
30...	0740	22.0	100	20	40