

Water-Data Report 2009

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 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2005-06, 2009.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 13.

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, air, mm Hg (00025)	Temper-ature, air, deg C (00020)	UV absorb-ance, 254 nm, wat flt /cm (50624)	UV absorb-ance, 280 nm, wat flt /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	Dis-solved solids, dried @ 180degC	Dis-solved solids, sum of constituents, mg/L (70301)
Dec 08...	0800	774	-6.0	.201	.160	10.3	74	6.3	126	1.0	4.8	68
Feb 26...	0800	773	.0	.171	.135	11.6	87	5.7	136	3.2	6.4	73
May 13...	0900	773	16.0	.312	.246	10.3	102	6.5	117	16.7	3.5	76
Aug 06...	0830	761	18.5	.237	.185	.7	8	6.0	90	22.9	1.9	54
												E42

01408598 SUNKEN BRANCH NEAR TOMS RIVER, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 5

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

Date	ANC,						Inor-						
	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)	wat unf fixed end pt, lab, mg/L as CaCO ₃ (90410)	Total carbon, susnd sedimnt total, mg/L (00694)	Chlor- ide, water, filtrd, mg/L (00940)	Fluor- ide, water, filtrd, mg/L (00950)	ganic carbon, susnd sedimnt total, mg/L (00688)	Silica, water, filtrd, mg/L as SiO ₂ (00955)	Sulfate water, filtrd, mg/L (00945)
Dec 08...	17	4	4.55	1.33	1.38	13.7	11	.7	22.5	<.08	<.04	1.7	7.06
Feb 26...	13	3	3.50	1.15	1.35	17.4	E6	1.3	28.2	<.08	<.04	.4	8.47
May 13...	13	3	3.60	1.01	.73	15.1	9	1.1	23.3	<.08	<.04	.6	6.18
Aug 06...	12	7	3.43	.909	.80	10.4	7.8	1.9	16.2	<.08	<.04	1.2	4.32

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 5

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

Date	Ammonia		Nitrate	Ortho-	Partic-	Beryll-			Chrom-				
	+ org-N, water, filtrd, mg/L as N (00623)	Ammonia water, filtrd, mg/L as N (00608)	nitrite water, filtrd, mg/L as N (00631)	phos- phate, water, filtrd, mg/L as P (00671)	nitro- gen, water, susps, mg/L as P (49570)	ulate water, mg/L as P (00666)	Phos- phorus, water, filtrd, mg/L as P (00665)	Phos- phorus, water, unfiltrd, mg/L as P (00602)	Total nitro- gen, water, filtrd, mg/L (00600)	Barium, water, unfiltrd, recover -able, μg/L (01007)	ium, water, unfiltrd, recover -able, μg/L (01012)	Cadmium water, unfiltrd, recover -able, μg/L (01027)	ium, water, unfiltrd (01034)
Dec 08...	.48	.202	.24	E.002	.07	.011	.025	.73	.80	--	--	--	--
Feb 26...	.29	.056	.30	<.010	.13	.010	.027	.59	.72	15.5	E.02	<.06	.49
May 13...	.38	.010	.08	<.010	.10	.017	.030	.46	.56	--	--	--	--
Aug 06...	.37	.014	<.04	E.008	.14	.011	.030	--	--	13.0	<.02	<.06	.59

01408598 SUNKEN BRANCH NEAR TOMS RIVER, 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 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 08...	--	--	--	--	--	--	--	--	--	--	--	--	.69
Feb 26...	<4.0	1,180	.72	22.9	.076	.69	<.06	10.7	.27	.30	E10	.15	1.30
May 13...	--	--	--	--	--	--	--	--	--	--	--	--	1.08
Aug 06...	<4.0	2,350	.49	52.6	E.009	.78	<.06	14.3	.48	.70	E11	.14	1.94

**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 08...	4.0
Feb 26...	3.4
May 13...	5.7
Aug 06...	5.2

01408598 SUNKEN BRANCH NEAR TOMS RIVER, NJ—Continued

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	ethyl-aniline water, filtrd 0.7µ GF	2,6-Di-ethyl-aniline acetanilide water, fltrd 0.7µ GF	2-Chloro-diethyl water, filtrd 0.7µ GF	CIAT, water, filtrd 0.7µ GF	2'-6'-diethyl water, filtrd 0.7µ GF	Ethyl-aniline water, filtrd 0.7µ GF	3,4-Di-chloro-aniline water, filtrd 0.7µ GF	3,5-Di-chloro-aniline water, filtrd 0.7µ GF	4-Chloro-phenol, water, filtrd 0.7µ GF	Aceto-chlor, water, filtrd 0.7µ GF	Ala-chlor, water, filtrd 0.7µ GF	alpha-Endosulfan, water, filtrd 0.7µ GF	Atra-zine, water, filtrd 0.7µ GF	Azin-phos-methyl oxon, water, filtrd 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)		
May 13...	<.04	<.006	<.010	E.006	<.010	<.004	<.004	E.006	<.010	<.008	<.006	.008	<.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 0.7µ GF	Car-baryl, water, filtrd 0.7µ GF	Carbo-furan, water, filtrd 0.7µ GF	Chlor-pyrifos oxon, water, filtrd 0.7µ GF	Chlor-pyrifos water, filtrd 0.7µ GF	Chlor-pyrifos water, filtrd 0.7µ GF	cis-Permethrin water, filtrd 0.7µ GF	cis-Propiconazole, water, filtrd 0.7µ GF	Cyana-zine, water, filtrd 0.7µ GF	Cyflu-thrin, water, filtrd 0.7µ GF	Cyper-methrin, water, filtrd 0.7µ GF	DCPA, water, filtrd 0.7µ GF	Desulf-inyl-fipro-nil, water, filtrd 0.7µ 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 (61586)	µg/L (82682)	µg/L (62169)		
May 13...	<.120	<.014	E.009	<.060	<.05	<.010	<.014	E.004	<.040	<.016	<.020	<.006	E.004		

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, filtrd 0.7µ GF	Diazi-non, water, filtrd 0.7µ GF	Di-chlor-vos, water, filtrd 0.7µ GF	Dicro-tophos, water, filtrd 0.7µ GF	Diel-drin, water, filtrd 0.7µ GF	Dimeth-oate, water, filtrd 0.7µ GF	Disulf-oton, water, filtrd 0.7µ GF	Disul-foton, water, filtrd 0.7µ GF	Endo-sulfan, water, filtrd 0.7µ GF	EPTC, water, filtrd 0.7µ GF	Ethion-monoxon, water, filtrd 0.7µ GF	Ethion, water, filtrd 0.7µ GF	Etho-prop, water, filtrd 0.7µ GF		
	µg/L (62170)	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)		
May 13...	E.006	<.005	<.02	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016		

01408598 SUNKEN BRANCH NEAR TOMS RIVER, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 7

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

Date	Fenami-													
	Fenami-phos	sulf-	Fenami-phos	Fipro-nil	Fipro-nil	Fipro-	Fonofos	Hexa-	Ipro-	Isofen-	lambda-	Cyhalo-	Mala-	Mala-
water,	oxide,	water,	water,	water,	water,	water,	water,	zinone,	dione,	phos,	water,	oxon,	water,	thion,
fltrd,	fltrd,	fltrd,	fltrd,	fltrd,	fltrd,	fltrd,	fltrd,	fltrd,	fltrd,	fltrd,	fltrd,	fltrd,	fltrd,	fltrd,
µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	(62168)	(62166)	(04095)	(61593)	(61594)	(61595)	(61652)	(39532)
(61645)	(61646)	(61591)	(62167)	(62168)	(62166)	(04095)	(04025)	(61593)	(61594)	(61595)	(61652)	(39532)		
May 13...	<.053	<.08	<.03	E.007	E.010	E.023	<.010	E.012	<.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	Methyl													
	Meta-laxyl,	Methid-athion,	Methyl-oxon,	Methyl-para-thion,	Metola-chlor,	Metri-buzin,	Moli-nate,	Myclo-butanol	Oxy-fluor-fen,	Pendi-meth-alin,	Phorate	Phorate	Phosmet	
water,	water,	water,	water,	water,	water,	water,	water,	water,	water,	water,	water,	water,	water,	
fltrd,	fltrd,	fltrd,	fltrd,	0.7µ GF	fltrd,	fltrd,	0.7µ GF	fltrd,	fltrd,	0.7µ GF	fltrd,	0.7µ GF	fltrd,	
µg/L	µg/L	µg/L	µg/L	µg/L	(82667)	(39415)	(82630)	(82671)	(61599)	(61600)	(82683)	(61666)	(82664)	(61668)
(61596)	(61598)	(61664)	(62166)	(82667)	(39415)	(82630)	(82671)	(61599)	(61600)	(82683)	(61666)	(82664)	(61668)	
May 13...	<.007	<.006	<.01	<.008	E.006	<.016	<.002	<.010	<.006	.026	<.03	<.020	<.05	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 7

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

Date	Ter-													
	Phosmet	Prome-ton,	Prome-tryn,	Propanil,	Propar-gite,	Propy-zamide,	Tebu-simazine,	Terbufos	Terbu-	Ter-	Thio-			
water,	water,	water,	water,	water,	water,	water,	water,	oxon	fos,	buthyl-	ben carb			
fltrd,	fltrd,	fltrd,	fltrd,	0.7µ GF	0.7µ GF	0.7µ GF	0.7µ GF	fltrd,	water,	water,	water,			
µg/L	µg/L	µg/L	µg/L	(82679)	(82685)	(82676)	(04035)	(82670)	(61606)	(61674)	(82675)	(04022)	(82681)	
(61601)	(04037)	(04036)	(82679)	(82685)	(82676)	(04035)	(04035)	(82670)	(61606)	(61674)	(82675)	(04022)	(82681)	
May 13...	<.200	E.01	<.006	<.014	<.02	<.004	<.010	<.02	<.010	<.04	<.02	<.01	<.016	

01408598 SUNKEN BRANCH NEAR TOMS RIVER, NJ—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO
SEPTEMBER 2009**

Part 7 of 7

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

	trans-	Tri-
Date	Propi-	flur-
	con-a-	Tribu-
	zole,	phos,
	water,	water,
	filtrd,	filtrd,
	µg/L	µg/L
	(79847)	(61610)
		µg/L
		(82661)

May			
13...	E.01	<.035	<.012