AUG

0.054

1.24

0.005

0.028

0.05

0.025

0.040

1.6

1.7

0.5

< 0.1

0.5

8.2

01410865 SQUANKUM BRANCH AT MALAGA ROAD, NEAR WILLIAMSTOWN, NJ

LOCATION.--Lat 39°40′04", long 74°57′38", Gloucester County, Hydrologic Unit 02040302, at bridge on Malaga Road, 1.2 mi upstream from Hedges Branch, 2.0 mi southeast of Williamstown, and 2.1 mi southwest of New Brooklyn.

DRAINAGE AREA.--3.02 mi².

PERIOD OF RECORD.--Water years 1974-1978, 2003 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of chlorophyll a was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR .-- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY DATA, W	WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
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	WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003												
Date	Time	Turbidity, water, unfltrd field, NTU (61028)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
NOV 07	0930	3.7	0.857	0.673	759	7.3	64	6.0	92	8.0	9.5	20	4.82
FEB 13	0930	3.2	0.211	0.159	760	10.4	76	5.5	190	-4.5	2.3	26	5.68
MAY 01	0930	0.9	0.211	0.222	759	7.5	70	6.0	140	15.0	12.1	25	5.79
AUG													
12	1000	1.6	0.403	0.310	759	5.1	54	6.3	151	27.0	17.7	31	8.17
			WATER-0	QUALITY	DATA, WA	ATER YEA	R OCTOB	ER 2002 TO	O SEPTEM	BER 2003			
	Magnes-	Potas-		ANC, wat unf fixed	Chlor-	Fluor-			Residue water, fltrd,	Residue on evap.	Residue total at 105	Ammonia + org-N,	Ammonia
Date	ium, water, fltrd, mg/L (00925)	sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	end pt, lab, mg/L as CaCO3 (90410)	ide, water, fltrd, mg/L (00940)	ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	sum of consti- tuents mg/L (70301)	at 180degC wat flt mg/L (70300)	deg. C, sus- pended, mg/L (00530)	water, fltrd, mg/L as N (00623)	water, fltrd, mg/L as N (00608)
NOV 07 FEB	2.01	1.08	8.38	13	6.21	< 0.17	4.6	11.2	49	80	<1	0.56	<0.030
13 MAY	2.89	1.44	22.3	E8	38.3	< 0.17	6.0	9.3		107	7	0.23	< 0.030
01	2.54	1.44	15.0	11	21.6	< 0.17	5.0	10.3	74	88	1	0.28	< 0.030
AUG 12	2.51	1.94	15.1	17	22.3	< 0.17	7.1	9.5	82	96	<1	0.41	0.056
			WATER-0	QUALITY	DATA, WA	ATER YEA	R OCTOB	ER 2002 TO	O SEPTEM	BER 2003			
Date	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
NOV 07 FEB	< 0.030	0.64	0.005	0.036	0.06	0.030	0.040	1.2	1.3	0.6	<0.1	0.6	17.7
13 MAY	0.034	1.70	< 0.003	0.023		0.008	0.020	1.9	2.4	0.9	< 0.1	0.9	4.9
01	< 0.030	1.27	< 0.003	0.022	0.04	0.012	0.017	1.6	1.6	0.1	< 0.1	< 0.1	6.4

01410865 SQUANKUM BRANCH AT MALAGA ROAD, NEAR WILLIAMSTOWN, NJ—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

		Chloro-	
	BOD,	phyll a	
	water,	fluoro-	
	unfltrd	metric	Boron,
	5 day,	method,	water,
	20 degC	corretd	fltrd,
Date	mg/L	ug/L	ug/L
	(00310)	(32209)	(01020)
NOV			
07	<1.0		27
FEB			
13	<1.0		23
MAY			
01	<1.0	1.60	27
AUG			
12	E1.9	0.200	30

Remark codes used in this table:

< -- Less than
E -- Estimated value

WATER-COLUMN TRACE-ELEMENT ANALYSES

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

				Beryll-			Chrom-		Mangan-					
			Barium,	ium,	Boron,		ium,	Copper,	Iron,	Lead,	ese,	Mercury	Nickel,	
		Arsenic	water, unfltrd	water, unfltrd	water, unfltrd	Cadmium	water, unfltrd							
Date	Time	water unfltrd ug/L (01002)	recover -able, ug/L (01007)	recover -able, ug/L (01012)	recover -able, ug/L (01022)	water, unfltrd ug/L (01027)	recover -able, ug/L (01034)	recover -able, ug/L (01042)	recover -able, ug/L (01045)	recover -able, ug/L (01051)	recover -able, ug/L (01055)	recover -able, ug/L (71900)	recover -able, ug/L (01067)	
AUG 12	1000	<2	75.2	0.06	24	0.07	< 0.8	1.9	380	1.43	36.1	0.11	2.43	

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

		Silver,	Zinc,
	Selen-	water,	water,
	ium,	unfltrd	unfltrd
	water,	recover	recover
	unfltrd	-able,	-able,
Date	ug/L	ug/L	ug/L
	$(01\overline{147})$	(01077)	(01092)
AUG			
12	0.8	< 0.16	22

Remark codes used in this table:

< -- Less than

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

		1,1,1-										Bromo-	
		Tri-		1,1-Di-	1,1-Di-	1,2-Di-	1,2-Di-	1,2-Di-	1,3-Di-	1,4-Di-		di-	
		chloro-		chloro-		chloro-	Chloro-						
		ethane,	CFC-113	ethane,	ethene,	benzene	ethane,	propane	benzene	benzene	Benzene	methane	benzene
		water,	water	water	water,	water	water,	water	water	water	water	water	water
		unfltrd											
Date	Time	ug/L											
		(34506)	(77652)	(34496)	(34501)	(34536)	(32103)	(34541)	(34566)	(34571)	(34030)	(32101)	(34301)
FEB													
13	0930	0.4	< 0.1	< 0.1	0.2	< 0.1	< 0.2	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1

01410865 SQUANKUM BRANCH AT MALAGA ROAD, NEAR WILLIAMSTOWN, NJ—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093)	Di- bromo- chloro- methane water unfltrd ug/L (32105)	Di- chloro- di- fluoro- methane wat unf ug/L (34668)	Di- chloro- methane water unfltrd ug/L (34423)	Di- ethyl ether, water, unfltrd ug/L (81576)	Diiso- propyl ether, water, unfltrd ug/L (81577)	Ethyl- benzene water unfltrd ug/L (34371)	Methyl tert- pentyl ether, water, unfltrd ug/L (50005)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Styrene water unfltrd ug/L (77128)	t-Butyl ethyl ether, water, unfltrd ug/L (50004)	Methyl t-butyl ether, water, unfltrd ug/L (78032)
FEB 13	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.1	<0.1	<0.1	10.5
			WATER-0	QUALITY	DATA, WA	ATER YEA	R OCTOB	ER 2002 T	O SEPTEM	BER 2003			
		Date	Tetra- chloro- ethene, water, unfltrd ug/L (34475)	Tetra- chloro- methane water unfltrd ug/L (32102)	Toluene water unfltrd ug/L (34010)	trans- 1,2-Di- chloro- ethene, water, unfltrd ug/L (34546)	Tri- bromo- methane water unfltrd ug/L (32104)	Tri- chloro- ethene, water, unfltrd ug/L (39180)	Tri- chloro- fluoro- methane water unfltrd ug/L (34488)	Tri- chloro- methane water unfltrd ug/L (32106)	Vinyl chlor- ide, water, unfltrd ug/L (39175)		
		FEB											

< 0.1 Remark codes used in this table: < -- Less than

< 0.2

< 0.1

13...

WATER-COLUMN PESTICIDE ANALYSES

< 0.2

< 0.1

< 0.2

< 0.1

< 0.2

< 0.1

The following were determined using laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Laboratory Measurements" in the Explanation of Water-Quality Records section of this report). Only pesticides detected in one or more surface-water samples are listed in the following table.

Date	Time	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor, water, fltrd, ug/L (46342)	alpha- HCH, water, fltrd, ug/L (34253)	Atrazine, water, fltrd, ug/L (39632)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)
MAY 01	0930	<0.006	<0.006	<0.006 QUALITY	<0.004	<0.005	<0.007	<0.050	<0.010	<0.002	<0.041	<0.020	<0.006
Date	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazi- non, water, fltrd, ug/L (39572)	Diel- drin, water, fltrd, ug/L (39381)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	Mala- thion, water, fltrd, ug/L (39532)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Napropamide, water, fltrd 0.7u GF ug/L (82684)
MAY 01	< 0.003	< 0.004	< 0.005	< 0.005	< 0.002	< 0.009	< 0.005	< 0.005	< 0.007	< 0.027	E.002	< 0.006	< 0.007

01410865 SQUANKUM BRANCH AT MALAGA ROAD, NEAR WILLIAMSTOWN, NJ—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Pendi- meth- alin, water, fltrd 0.7u GF ug/L (82683)	Prometon, water, fltrd, ug/L (04037)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)
MAY 01	< 0.022	0.03	0.007	< 0.02	< 0.034	< 0.009

Remark codes used in this table:

< -- Less than
E -- Estimated value

WATER-COLUMN BACTERIA ANALYSES

Samples were collected synoptically over a 30-day period during the summer.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

		Entero-		Fecal			Entero-		Fecal
		cocci,	E coli,	coli-			cocci,	E coli,	coli-
		m-E	m-TEC	form,			m-E	m-TEC	form,
		MF,	MF,	ECbroth			MF,	MF,	ECbroth
		water,	water,	water,			water,	water,	water,
		col/	col/	MPN/			col/	col/	MPN/
Date	Time	100 mL	100 mL	100 mL	Date	Time	100 mL	100 mL	100 mL
		(31649)	(31633)	(31615)			(31649)	(31633)	(31615)
JUL					AUG				
09	1030	110	<100	20	06	1110	2,900	1,200	1,700
16	1055	100	100	40					
23	1055		700	1,300					
30	1100	180	<100	70					

Remark codes used in this table:

< -- Less than

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD, NEAR CECIL, NJ

LOCATION .-- Lat 39°38'36", long 74°58'39", Gloucester County, Hydrologic Unit 02040302, at bridge on Blue Bell Road, 1.2 mi upstream of Timber Lakes and 2.0 mi west of Cecil.

DRAINAGE AREA.--4.51 mi².

PERIOD OF RECORD .-- Water years 1998 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION .-- Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of chlorophyll a was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR .-- Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	absorb- ance, 254 nm, wat flt units /cm (50624)	absorb- ance, 280 nm, wat flt units /cm (61726)	Baro- metric pres- sure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, unfltrd mg/L as CaCO3 (00900)
NOV													
25	1140	1.9	0.9	0.307	0.235	763	9.2	77	4.9	84	17.0	7.5	21
MAR 05	1100	11	1.2	0.350	0.267	750	11.1	84	4.2	73	12.0	3.2	16
MAY	1100	11	1.2	0.550	0.207	730	11.1	04	4.2	13	12.0	3.2	10
13	1130	5.8	2.9	0.893	0.711	748	7.4	73	5.5	60	15.0	14.0	15
AUG													
12	1130	6.0	17	1.09	0.866	762	5.2	59	5.8	62	28.0	21.6	18
			WATED	OHALITY	DATA W/	TED VEA	P OCTOR	ED 2002 TO) CEDTEM	BED 2003			

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Calcium water, fltrd, mg/L (00915)	Magnes- ium, 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 CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	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)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
NOV 25 MAR	4.45	2.51	1.54	3.54	2	6.27	< 0.17	8.0	15.5	48	62	5	0.26
05	3.42	1.85	1.67	3.67		7.08	< 0.17	5.1	13.5		56	<1	0.26
MAY 13	3.39	1.70	1.89	4.17	6	7.58	< 0.17	4.6	6.3	36	70	4	0.59
AUG 12	4.04	1.92	1.86	4.04	9	7.26	< 0.17	7.8	3.5	39	64	7	0.79

Date	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)
NOV 25 MAR	< 0.030	<0.030	1.14	< 0.003	<0.020	0.04	0.012	0.016	1.4	1.4	0.2	<0.1	0.2
05	< 0.030	0.044	0.77	0.004	< 0.020	0.03	0.010	0.005	1.0	1.1	0.2	< 0.1	0.2
MAY 13 AUG	0.097	0.095	0.56	0.004	< 0.020	0.08	0.013	0.032	1.2	1.2	1.2	<0.1	1.2
12	0.165	0.198	0.37	0.006	< 0.020	0.17	0.014	0.038	1.2	1.3	2.8	< 0.1	2.8

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD, NEAR CECIL, NJ—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Chloro- phyll a fluoro- metric method, corretd ug/L (32209)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)
NOV 25	7.1	<1.0		19	
MAR	7.1	<1.0		19	
05	7.5	<1.0		E12	
MAY 13 AUG	13.8	<1.0	2.40	14	
12	17.8	<1.0	1.40	13	1,530

Remark codes used in this table:

< -- Less than
E -- Estimated value

WATER-COLUMN BACTERIA ANALYSES

Samples were collected synoptically over a 30-day period during the summer.

		Entero-		Fecal			Entero-		Fecal
		cocci,	E coli,	coli-			cocci,	E coli,	coli-
		m-E	m-TEC	form,			m-E	m-TEC	form,
		MF,	MF,	ECbroth			MF,	MF,	ECbroth
		water,	water,	water,			water,	water,	water,
		col/	col/	MPN/			col/	col/	MPN/
Date	Time	100 mL	100 mL	100 mL	Date	Time	100 mL	100 mL	100 mL
		(31649)	(31633)	(31615)			(31649)	(31633)	(31615)
JUL					AUG				
09	1020	630	1,300	600	06	1100	280	800	500
16	1045	460	200	130					
23	1045		1,100	1,400					
30	1050	170	200	130					

AUG

19..

0.049

0.060

0.21

0.004

0.025

0.11

0.018

0.040

0.87

0.98

1.6

< 0.1

1.6

01411110 GREAT EGG HARBOR RIVER AT WEYMOUTH, NJ

LOCATION.--Lat 39°30'50", long 74°46'46", Atlantic County, Hydrologic Unit 02040302, at bridge on U.S. Route 322 in Weymouth, 0.5 mi upstream from Deep Run, and 20.9 mi upstream from mouth.

DRAINAGE AREA.--154 mi².

PERIOD OF RECORD.--Water years 1975 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, and total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Environmental Protection, Bureau of Marine Water Monitoring Laboratory. Determination of chlorophyll a was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 HV IIV Turabsorbabsorb-DispH, Specif. Hard-Instanbidity, ance. ance. Barosolved water. conducness. 254 nm, 280 nm, Disunfltrd Tempertaneous water. metric oxygen, tance, Temperwater, disunfltrd wat flt wat flt pressolved percent field, wat unf ature, ature, unfltrd charge, field, units sure, oxygen, of satstd uS/cm air, water, mg/L as Date Time NTU /cm mg/L deg C CaCO3 cfs /cm mm Hg uration units 25 degC deg C (00061)(61028)(50624)(61726)(00025)(00300)(00400)(00095) $(00\tilde{0}20)$ (00010)(00900)(00301)NOV 1140 158 5.3 0.246 0.188 747 9.9 88 4.5 70 12.0 9.5 11 06... FEB 1100 514 2.3 0.447 0.339 12.9 90 3.7 102 6.0 0.9 11 25 767 MAY 1040 10 208 2.7 0.647 0.506 755 90 88 5.1 62 19.5 14.2 14 AUG 0.798 19.. 1040 208 4.0 1.01 766 7.5 84 5.3 61 30.0 21.2 11 WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 ANC. Residue Residue Residue Ammonia wat unf total water, on org-N, Magnes-Potasfixed Chlor-Fluorfltrd, evap. at 105 Calcium ium, sium, Sodium. end pt, ide, ide, Silica, Sulfate sum of at deg. C, water, water, water, lab, water, water, water, water, consti-180degC fltrd, water, water. susfltrd, fltrd, fltrd, fltrd, mg/L as fltrd, fltrd, fltrd, fltrd, tuents wat flt pended, mg/L mg/Ĺ mg/L as N Date mg/L mg/L CaCO3 mg/L mg/L mg/L mg/L mg/L mg/L mg/L (00915)(00925)(00935)(00930)(90410)(00940)(00950)(00955)(00945)(70301) $(70\bar{3}00)$ (00530)(00623)NOV 9 06... 2.28 1.37 1.17 5.11 <2 7.64 < 0.17 7.0 11.3 51 0.24 FEB 2.28 1.40 1.24 8.14 15.2 < 0.17 4.7 9.3 67 3 0.33 25. MAY 1.23 6.06 3 < 0.17 34 59 9 0.40 14.. 2.16 1.18 10.0 4.7 5.6 AUG 2.20 1.23 1.31 5.72 3 10.0 < 0.17 7.8 3.7 36 73 7 0.66 19... WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 Nitrite Ortho-Partic-Inorphos-Total Total Total ulate ganic Organic Ammonia Ammonia nitrate Nitrite phate. nitro-Phos-Phosnitronitrocarbon. carbon, carbon. water, water. water. water water. gen, phorus. phorus, gen, gen, suspnd suspnd suspnd fltrd, unfltrd fltrd. fltrd, fltrd, susp, water, water, water, water. sedimnt sedimnt sedimnt mg/L mg/L mg/L mg/L mg/L water. fltrd. unfltrd fltrd. unfltrd total. total. total Date as N as N as N as N as P mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L (00608)(00610)(00631)(00613)(00671)(49570)(00666)(00665)(00602)(00600)(00694)(00688)(00689)NOV < 0.030 < 0.030 < 0.003 0.022 0.05 0.009 0.026 0.60 0.65 < 0.1 1.2 06... 0.36 1.2 FEB 0.046 0.057 0.37 0.003 < 0.020 0.06 0.008 0.019 0.69 0.76 1.4 < 0.1 1.4 MAY 0.037 14... 0.052 0.32 < 0.003 < 0.020 0.08 0.007 0.025 0.72 0.80 1.2 < 0.1 1.2

01411110 GREAT EGG HARBOR RIVER AT WEYMOUTH, NJ—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Chloro- phyll a fluoro- metric method, corretd ug/L (32209)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)
NOV 06	7.3	E1.9		28	
FEB		D1.7			
25 MAY	9.8	<1.0		19	
14	11.5	<1.0	1.90	27	
AUG	10.0		4.50	2.	4.0=0
19	18.0	<1.0	1.50	26	1,070

Remark codes used in this table:

< -- Less than
E -- Estimated value

WATER-COLUMN BACTERIA ANALYSES

Samples were collected synoptically over a 30-day period during the summer.

		Entero-		Fecal			Entero-		Fecal
		cocci,	E coli,	coli-			cocci,	E coli,	coli-
		m-E	m-TEC	form,			m-E	m-TEC	form,
		MF,	MF,	ECbroth			MF,	MF,	ECbroth
		water,	water,	water,			water,	water,	water,
		col/	col/	MPN/			col/	col/	MPN/
Date	Time	100 mL	100 mL	100 mL	Date	Time	100 mL	100 mL	100 mL
		(31649)	(31633)	(31615)			(31649)	(31633)	(31615)
JUN					JUL				
12	1020	50	30	20	07	1105	113	83	113
19	1045	65	93	117	10	1037	791	590	736
26	1040	15	10	50					

01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ

LOCATION.--Lat 39°28'08", long 74°41'33", Atlantic County, Hydrologic Unit 02040302, at bridge on U.S. Route 322, 1.1 mi east from intersection of U.S. Route 50, 2.2 mi northeast of Mays Landing, and 2.8 mi upstream from Watering Race Branch.

DRAINAGE AREA.--16.3 mi².

PERIOD OF RECORD .-- Water years 1965, 1998 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.—Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, and total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Environmental Protection, Bureau of Marine Water Monitoring Laboratory. Determination of chlorophyll a was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	absorbance, 254 nm, wat flt units /cm (50624)	absorb- ance, 280 nm, wat flt units /cm (61726)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, unfltrd mg/L as CaCO3 (00900)
NOV 06	0930	34	8.9	0.349	0.275	748	8.5	78	4.8	45	11.5	10.5	9
FEB 25	0950	74	2.0	0.609	0.460	767	12.0	84	3.1	150	5.0	1.2	12
MAY 14	0950	15	0.8	0.424	0.327	755	8.5	79	4.0	82	16.5	11.8	8
AUG 19	0950	9.7	1.0	0.483	0.379	766	7.7	79	4.2	57	27.0	16.8	7

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
NOV 06	1.93	1.09	0.73	2.94	E2	4.97	< 0.17	4.3	6.3	35	7	0.23	< 0.030
FEB 25	2.37	1.54	0.77	12.2		23.3	< 0.17	4.6	12.1	82	3	0.43	0.037
MAY 14	1.58	1.05	0.86	6.52		12.8	< 0.17	5.2	7.3	53	4	0.22	< 0.030
AUG 19	1.20	0.927	0.68	4.22	<2	9.22	< 0.17	9.0	3.9	49	2	0.35	0.040

Date	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
NOV 06	< 0.030	0.30	< 0.003		0.06	0.015	0.028	0.53	0.59	1.1	<0.1	1.1	10.1
FEB	<0.050	0.50	<0.003		0.00	0.013	0.026	0.55	0.57	1.1	\0.1	1.1	10.1
25	0.043	0.23	< 0.003	0.020	0.06	0.007	0.015	0.67	0.73	0.8	< 0.1	0.8	15.0
MAY	0.020	0.42	0.002	0.020	0.02	0.004	0.007	0.65		0.1	0.1	0.1	0.7
14	< 0.030	0.43	< 0.003	< 0.020	< 0.02	0.004	0.007	0.65		< 0.1	< 0.1	< 0.1	8.7
AUG	0.047	0.52	-0.002	-0.020	0.02	0.014	0.016	0.00	0.01	0.2	-0.1	0.2	0.0
19	0.047	0.53	< 0.003	< 0.020	0.03	0.014	0.016	0.88	0.91	0.3	< 0.1	0.3	9.8

01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

		Chloro-	
	BOD,	phyll a	
	water,	fluoro-	
	unfltrd	metric	Boron,
	5 day,	method,	water,
	20 degC	corretd	fltrd,
Date	mg/L	ug/L	ug/L
	(00310)	(32209)	(01020)
NOV			
06	E2.1		E6.4
FEB			
25	E1.2		18
MAY			
14	2.7	2.40	<13
AUG			
19	<1.0	0.400	12

Remark codes used in this table:

< -- Less than
E -- Estimated value

WATER-COLUMN BACTERIA ANALYSES

Samples were collected synoptically over a 30-day period during the summer.

		Entero-		Fecal			Entero-		Fecal
		cocci,	E coli,	coli-			cocci,	E coli,	coli-
		m-E	m-TEC	form,			m-E	m-TEC	form,
		MF,	MF,	ECbroth			MF,	MF,	ECbroth
		water, col/	water, col/	water, MPN/			water, col/	water, col/	water, MPN/
Date	Time	100 mL (31649)	100 mL (31633)	100 mL (31615)	Date	Time	100 mL (31649)	100 mL (31633)	100 mL (31615)
JUN					JUL				
12	0952	40	55	100	07	1040	45	67	110
19	1025	67	330	310	10	1025	982	1,400	1,440
26	1015	25	5	13					