282 SHARK RIVER BASIN

01407760 JUMPING BROOK NEAR NEPTUNE CITY, NJ

LOCATION.--Lat 40°12'13", long 74°03'56", Monmouth County, Hydrologic Unit 02030104, 60 ft downstream from dam on Jumping Brook Reservoir, 0.8 mi upstream from mouth, and 1.4 mi west of Neptune City.

DRAINAGE AREA.--6.46 mi².

PERIOD OF RECORD .-- Water year 2001 to August 2002.

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.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 12.

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

Date	Time	Instantaneous discharge, cfs (00061)	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)	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 21	1000	7.1	15	0.209	0.163	764	10.6	88	6.7	172	10.0	7.5	37
FEB	1000	7.1	13	0.209	0.103	704	10.0	00	0.7	1/2	10.0	7.3	31
10	1015	4.7	3.3	0.060	0.048	759	12.9	93	6.5	663	5.0	1.7	54
MAY	1115	4.7	(=	0.117	0.001	750	0.0	02	(7	214	17.5	10.5	45
14 AUG	1115	4.7	6.5	0.117	0.091	759	9.9	93	6.7	314	17.5	12.5	45
21	0845	3.1	15	0.223	0.172	765	7.0	78	6.6	233	25.5	20.4	37
			WATER-0	QUALITY	DATA, WA	ATER YEA	R OCTOB	ER 2002 TO	O SEPTEM	BER 2003			
					ANC					Residue	Residue	Residue	Ammonia

					ANC,					Residue	Residue	Residue	Ammonia
					wat unf					water,	on	total	+
		Magnes-	Potas-		fixed	Chlor-	Fluor-			fltrd,	evap.	at 105	org-N,
	Calcium	ium,	sium,	Sodium,	end pt,	ide,	ide,	Silica,	Sulfate	sum of	at	deg. C,	water,
	water,	water,	water,	water,	lab,	water,	water,	water,	water,	consti-	180degC	sus-	fltrd,
	fltrd,	fltrd,	fltrd,	fltrd,	mg/L as	fltrd,	fltrd,	fltrd,	fltrd,	tuents	wat flt	pended,	mg/L
Date	mg/L	mg/L	mg/L	mg/L	CaCO3	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	as N
Dute	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70301)	(70300)	(00530)	(00623)
	(00)13)	(00)23)	(00)55)	(00)30)	(50110)	(00) 10)	(00)30)	(00)33)	(00) (3)	(70501)	(70300)	(00330)	(00023)
NOV													
21	10.4	2.57	2.75	12.8	E8	22.6	< 0.17	7.1	26.5		105	15	0.31
FEB													
10	15.8	3.41	3.99	93.9	9	161	< 0.17	8.3	28.7	323	343	4	0.35
MAY													
14	13.1	2.93	2.90	38.9	11	64.9	< 0.17	7.8	25.4	165	184	5	0.27
AUG													
21	10.7	2.62	3.52	26.1	13	43.9	< 0.17	8.6	22.3	127	144	7	0.32

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

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)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)
NOV	0.106	0.112	0.47	0.005	.0.020	0.00	0.000	0.042	0.70	0.07	1.6	.0.1	1.6
	0.106	0.112	0.47	0.005	<0.020	0.09	0.008	0.043	0.79	0.87	1.6	<0.1	1.6
10	0.233	0.248	0.54	< 0.003	< 0.020	0.03	< 0.004	0.011	0.89	0.92	0.4	< 0.1	0.4
	0.056	0.002	0.45	0.002	0.020	0.06	0.004	0.010	0.50	0.70	0.0	0.1	0.0
	0.056	0.093	0.45	< 0.003	< 0.020	0.06	<0.004	0.019	0.72	0.78	0.9	<0.1	0.9
	0.008	0.000	0.42	0.006	<0.020	0.07	0.004	0.028	0.74	0.01	1.0	z0 1	1.0
21 FEB	0.106 0.233 0.056 0.098	0.112 0.248 0.093 0.089	0.47 0.54 0.45 0.42	0.005 <0.003 <0.003 0.006	<0.020 <0.020 <0.020 <0.020	0.09 0.03 0.06 0.07	0.008 <0.004 <0.004 0.004	0.043 0.011 0.019 0.028	0.79 0.89 0.72 0.74	0.87 0.92 0.78 0.81	1.6 0.4 0.9 1.0	<0.1 <0.1 <0.1 <0.1	1.6 0.4 0.9

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01407760 JUMPING BROOK NEAR NEPTUNE CITY, 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)
NOV 21	4.9	<1.0		23
FEB 10	1.7	E1.4		25
MAY 14 AUG	3.2	E1.0	3.00	26
21	5.2	E1.2	1.40	36

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					JUL				
02	0950	240	100	500	17	1015	260	200	500
10	1035	560	700	9,000	24	1030	560	300	300
					31	1055	140	200	300