CAPE FEAR RIVER BASIN 159

0210215985 CAPE FEAR RIVER AT STATE HIGHWAY 42 NEAR BRICKHAVEN, NC

LOCATION.--Lat 35°32'54", long 79°01'34", Chatham County, Hydrologic Unit 03030004, at bridge on State Highway 42, and 1.8 mi south of Brickhaven.

DRAINAGE AREA.--3,160 mi².

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Daily mean discharge values were obtained from the U.S. Army Corps of Engineers reservoir releases from the B. Everett Jordan Lake at the 2400 hour and the daily mean discharge value from Deep River near Moncure (station 02102000). The values from these two sites were added together and entered as a daily mean discharge for each date and time that a water-quality sample was collected.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	COLOR (PLAT- INUM- COBALT UNITS) (00080)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
NOV 01 DEC	1445	60	768	8.9	95	8.5	221	19.2	35	8.84	3.20	4.79	28.1
03	0945	50	770	7.8	75	7.2	232	13.9	36	9.01	3.24	5.19	28.8
FEB 12	1330	120	766	12.3	104	7.0	141	8.4	29	6.79	2.83	3.61	14.9
APR 15	1245	50	764	7.0	72	6.8	144	17.1	31	7.36	2.99	3.32	13.9
JUN 18	1300	25	760	3.1	37	7.1	247	24.9	34	8.05	3.47	4.93	29.9
AUG 28	1130	40	762	4.0	51	7.2	349	28.2	40	9.20	4.15	7.72	47.4
Date	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	BICAR- BONATE IT-FLD (MG/L AS HCO3) (99440)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
NOV 01	54	65	25.5	.3	3.8	22.8	128	<.015	1.2	.027	.009	<.007	.08
DEC 03	31	38	32.3	.2	3.8	25.4	146	.099	1.2	.309	.009	.034	.14
FEB 12	37	45	14.5	.1	9.6	14.9	104	.148	.91	.830	.009	.050	.14
APR 15	25	30	12.8	.2	4.6	13.1	85	.017	.91	.410	.009	.074	.16
JUN 18	44	54	27.1	.3	1.1	25.4	144	<.015	.98	<.013	<.002	.008	.10
AUG 28	57	70	39.3	. 4	1.8	34.5	199	.055	.88	<.013	E.002	.024	
Date	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)
NOV	10.5	50		-	0	0.0	2 1	120	-	61.4	0.1		F1 2
01 DEC	12.7	50	<4	<.1	<.8	<2.0	3.1	130	<1	61.4	<.01	6	E1.3
03 FEB	9.4												
12 APR	10.0												
15 JUN	9.7	160	<2	<.1	<.8	<2.0	3.7	580	М	86.8	<.01	2	E1.7
18 AUG	9.6												
28	8.5												

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

					SEDI-
		SILVER,	ZINC,		MENT,
	SELE-	TOTAL	TOTAL	SEDI-	DIS-
	NIUM,	RECOV-	RECOV-	MENT,	CHARGE,
	TOTAL	ERABLE	ERABLE	SUS-	SUS-
Date	(UG/L	(UG/L	(UG/L	PENDED	PENDED
	AS SE)	AS AG)	AS ZN)	(MG/L)	
	(01147)	(01077)	(01092)	(80154)	(80155)
MOLL					
NOV		2	0.0	4 0	п. о
01 DEC	<4	<.3	<20	4.9	7.8
03				12	16.3
FEB				12	16.3
12				20	194
APR				20	194
15	<2	<.3	< 2.0	8.9	
JUN	<2	<.3	<20	0.9	
18				5.5	8.8
AUG				5.5	3.0
28				3.6	2.4
20				5.0	2.1

Remark codes used in this report:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified