

02085500 FLAT RIVER AT BAHAMA, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment and to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

COOPERATION.--For the period February 1988 through June 1989 the inorganic-chemical data and trace-metal data were analyzed by the city of Durham's Brown Water Treatment Laboratory.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 03...	1430	54	--	758	7.6	83	6.9	79	19.1	--	--	--	--
DEC 11...	1345	1,330	--	746	12.1	108	6.7	56	9.2	--	--	--	--
FEB 20...	1415	114	--	759	13.5	110	7.1	85	6.6	--	--	--	--
APR 08...	1515	91	--	742	10.3	107	7.5	80	15.7	--	--	--	--
MAY 03...	1330	440	250	755	9.4	100	7.3	68	17.8	20	4.64	1.97	1.77
03...	1335	440	--	755	8.8	93	7.3	68	17.8	--	--	--	--
JUN 04...	1230	30	--	755	6.5	76	7.2	87	22.9	--	--	--	--
JUL 23...	1400	4.3	--	748	5.6	72	7.0	94	27.2	--	--	--	--
AUG 30...	1215	43	--	754	7.0	83	7.1	73	23.2	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	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)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Organic nitrogen, water, fltrd, mg/L (00607)
OCT 03...	--	--	--	--	--	--	.22	.23	<.04	--	.27	<.008	--
DEC 11...	--	--	--	--	--	--	1.5	1.2	<.04	.43	.44	.008	--
FEB 20...	--	--	--	--	--	--	.18	.24	<.04	--	.35	E.006	--
APR 08...	--	--	--	--	--	--	.22	.28	<.04	--	.14	<.008	--
MAY 03...	4.70	5.34	<.2	11.5	2.9	57	--	2.1	.072	.38	.384	.009	--
03...	--	--	--	--	--	--	.50	1.2	.07	.35	.36	.009	.44
JUN 04...	--	--	--	--	--	--	.29	.39	.07	--	.21	<.008	.22
JUL 23...	--	--	--	--	--	--	.31	.40	E.04	--	.10	<.008	--
AUG 30...	--	--	--	--	--	--	.32	.64	<.04	--	.15	<.008	--

02085500 FLAT RIVER AT BAHAMA, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Organic nitrogen, water, unfltrd mg/L (00605)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)
OCT 03...	--	E.01	<.04	E.02	.48	.50	--	--	--	--	--	--	--
DEC 11...	--	E.01	.06	.18	1.9	1.7	--	--	--	--	--	--	--
FEB 20...	--	<.02	<.04	.04	.54	.60	--	--	--	--	--	--	--
APR 08...	--	<.02	<.04	E.03	.35	.42	--	--	--	--	--	--	--
MAY 03...	2.0	E.004	--	.168	--	2.5	13.6	1,260	<2	.04	1.3	1.54	3.8
MAY 03...	1.1	<.02	<.04	.18	.86	1.5	--	--	--	--	--	--	--
JUN 04...	.32	E.01	<.04	.04	.50	.59	--	--	--	--	--	--	--
JUL 23...	--	<.02	<.04	E.03	.41	.50	--	--	--	--	--	--	--
AUG 30...	--	<.02	<.04	.12	.47	.79	--	--	--	--	--	--	--

Date	Iron, water, unfltrd recover-able, ug/L (01045)	Lead, water, unfltrd recover-able, ug/L (01051)	Manganese, water, unfltrd recover-able, ug/L (01055)	Mercury water, unfltrd recover-able, ug/L (71900)	Molybdenum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
OCT 03...	--	--	--	--	--	--	--	--	--	4	.58
DEC 11...	--	--	--	--	--	--	--	--	--	123	442
FEB 20...	--	--	--	--	--	--	--	--	--	8	2.5
APR 08...	--	--	--	--	--	--	--	--	--	8	2.0
MAY 03...	3,070	3.18	278	E.01	<.2	1.11	E.2	<.16	12	136	162
MAY 03...	--	--	--	--	--	--	--	--	--	--	--
JUN 04...	--	--	--	--	--	--	--	--	--	17	1.4
JUL 23...	--	--	--	--	--	--	--	--	--	10	.12
AUG 30...	--	--	--	--	--	--	--	--	--	124	14