

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC

LOCATION.--Lat 35°57'00", long 79°14'28", Orange County, Hydrologic Unit 03030002, at Orange Water and Sewage Authority intakes, 0.7 mi above State Highway 54, and 3.6 mi northwest of White Cross.

DRAINAGE AREA.--31.4 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. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sam-pling depth, meters (00098)	Trans-parency Secchi disc, meters (00078)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unfltrd uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
22...	0945	9	20	1.0	.60	754	5.7	61	6.9	91	18.5	27	6.69
22...	0950	9	--	6.0	--	754	5.6	60	7.0	84	18.3	--	--
22...	0955	9	--	12.0	--	754	.3	3	7.3	138	9.8	--	--
APR													
15...	0930	9	30	1.0	.90	755	8.8	89	7.6	77	15.3	26	6.26
15...	0935	9	--	7.0	--	755	6.2	56	6.8	77	10.3	--	--
15...	0940	9	--	13.0	--	755	5.1	44	7.0	80	8.6	--	--
JUN													
17...	0945	9	15	1.0	3.10	746	7.5	97	8.6	103	27.1	25	6.07
17...	0950	9	--	6.0	--	746	.1	1	6.4	92	13.1	--	--
17...	0955	9	--	13.0	--	746	.3	3	6.7	117	9.5	--	--
AUG													
12...	1115	9	10	1.0	2.00	753	8.0	106	8.5	89	29.5	28	6.57
12...	1116	R	--	1.0	2.00	753	8.0	106	8.5	89	29.5	--	--
12...	1117	R	--	1.0	2.00	753	8.0	106	8.5	89	29.5	--	--
12...	1118	R	--	1.0	2.00	753	8.0	106	8.5	89	29.5	--	--
12...	1119	R	--	1.0	2.00	753	8.0	106	8.5	89	29.5	--	--
12...	1120	9	--	6.0	--	753	.2	2	6.2	99	13.8	--	--
12...	1125	9	--	12.0	--	753	.2	2	6.5	132	10.0	--	--

Date	Magnes-ium, water, fltrd, mg/L (00925)	Potas-ium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, titr., mg/L as CaCO3 (00419)	Bicar-bonate, wat unfltrd, titr., mg/L (00450)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, 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, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
22...	2.48	2.73	4.10	30	37	5.22	E.1	8.52	2.9	61	.71	.055	.016
22...	--	--	--	--	--	--	--	--	--	--	.70	.056	.017
22...	--	--	--	--	--	--	--	--	--	--	1.8	1.37	E.008
APR													
15...	2.55	1.97	4.63	23	28	5.84	E.1	8.54	4.3	69	.55	.014	.325
15...	--	--	--	--	--	--	--	--	--	--	.49	.034	.340
15...	--	--	--	--	--	--	--	--	--	--	.63	.235	.359
JUN													
17...	2.49	1.86	4.87	22	27	5.98	E.1	5.56	4.2	60	.51	.011	.037
17...	--	--	--	--	--	--	--	--	--	--	.57	.129	.176
17...	--	--	--	--	--	--	--	--	--	--	1.2	.658	E.013
AUG													
12...	2.71	1.86	5.05	24	30	6.17	E.1	6.02	3.6	56	.44	E.008	<.016
12...	--	--	--	24	--	--	--	--	--	--	--	--	--
12...	--	--	--	24	--	--	--	--	--	--	--	--	--
12...	--	--	--	24	--	--	--	--	--	--	--	--	--
12...	--	--	--	24	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	.66	.182	<.016
12...	--	--	--	--	--	--	--	--	--	--	1.8	1.19	<.016

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Chlorophyll b phytoplankton, fluoro, ug/L (70954)	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)	Iron, water, unfltrd recover-able, ug/L (01045)
OCT													
22...	E.001	<.006	.021	9.2	E4.2	<.1	11	<2	<.04	<.8	.185	E.4	130
22...	.002	<.006	.019	--	--	--	--	--	--	--	--	--	130
22...	.004	.068	.097	--	--	--	--	--	--	--	--	--	10,200
APR													
15...	.005	<.006	.029	7.4	2.7	<.1	54	<2	<.04	<.8	.169	1.4	200
15...	.006	<.006	.027	--	--	--	--	--	--	--	--	--	190
15...	.016	<.006	.020	--	--	--	--	--	--	--	--	--	220
JUN													
17...	.002	<.006	.018	6.4	2.5	<.1	--	--	--	--	--	--	80
17...	.064	<.006	.026	--	--	--	--	--	--	--	--	--	180
17...	.007	.010	.039	--	--	--	--	--	--	--	--	--	2,320
AUG													
12...	<.002	<.012	.008	7.7	2.7	<.1	--	--	--	--	--	--	50
12...	--	--	--	--	2.1	<.1	--	--	--	--	--	--	--
12...	--	--	--	--	2.5	<.1	--	--	--	--	--	--	--
12...	--	--	--	--	3.9	<.1	--	--	--	--	--	--	--
12...	--	--	--	--	3.6	<.1	--	--	--	--	--	--	--
12...	<.002	<.012	.024	--	--	--	--	--	--	--	--	--	170
12...	.003	.016	.084	--	--	--	--	--	--	--	--	--	7,990

Date	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)
OCT								
22...	.07	364	.02	E.1	E.10	E.3	<.16	2
22...	--	380	--	--	--	--	--	--
22...	--	3,780	--	--	--	--	--	--
APR								
15...	.10	61	.06	<.2	.25	.5	<.16	6
15...	--	62.0	--	--	--	--	--	--
15...	--	586	--	--	--	--	--	--
JUN								
17...	--	31.6	--	--	--	--	--	--
17...	--	774	--	--	--	--	--	--
17...	--	3,250	--	--	--	--	--	--
AUG								
12...	--	44.7	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
12...	--	2,620	--	--	--	--	--	--
12...	--	4,300	--	--	--	--	--	--

Remark codes used in this table:
 < -- Less than.
 E -- Estimated.

Medium codes used in this table:
 9 -- Surface water.
 R -- Quality-control sample, surface water.

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC—Continued

