

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 mi<sup>2</sup>.

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 2003 TO SEPTEMBER 2004

Date	Time	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)	Magnes-ium, water, fltrd, mg/L (00925)
OCT													
31...	1015	25	1.0	2.20	760	6.9	70	7.0	75	16.5	25	5.98	2.46
31...	1020	--	7.0	--	760	.1	.0	6.8	92	12.9	--	--	--
31...	1025	--	13.6	--	760	.2	2	7.5	208	10.5	--	--	--
APR													
08...	1115	25	1.0	.80	744	6.8	68	7.3	73	14.3	27	6.36	2.63
08...	1120	--	6.0	--	744	6.7	61	6.8	73	10.0	--	--	--
08...	1125	--	13.0	--	744	5.6	48	6.8	72	8.0	--	--	--
JUN													
25...	0945	25	1.0	1.10	751	7.0	90	7.7	86	27.6	27	6.35	2.63
25...	0950	--	6.0	--	751	.1	1	6.6	80	11.7	--	--	--
25...	0955	--	11.0	--	751	.2	1	6.6	84	8.6	--	--	--
AUG													
19...	1145	15	1.0	1.50	754	5.5	67	7.6	84	25.4	27	6.85	2.49
19...	1150	--	6.0	--	754	.2	2	6.5	90	14.4	--	--	--
19...	1155	--	12.0	--	754	.4	3	6.8	113	9.6	--	--	--

Date	Potas-sium, 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 fltrd 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)	Nitrite water, fltrd, mg/L as N (00613)
OCT													
31...	2.26	3.74	26	32	4.74	<.2	8.04	2.4	55	.46	.025	.026	E.001
31...	--	--	--	--	--	--	--	--	--	.54	.075	.071	.003
31...	--	--	--	--	--	--	--	--	--	2.3	1.48	<.016	.009
APR													
08...	2.12	4.64	20	25	5.58	<.2	7.17	4.4	56	.39	E.008	.352	.003
08...	--	--	--	--	--	--	--	--	--	.39	.032	.431	.002
08...	--	--	--	--	--	--	--	--	--	.89	.067	.431	E.001
JUN													
25...	1.95	4.89	27	33	6.28	<.2	6.74	3.9	69	.42	<.010	<.016	<.002
25...	--	--	--	--	--	--	--	--	--	.38	.046	.167	.004
25...	--	--	--	--	--	--	--	--	--	.80	.431	.070	.004
AUG													
19...	1.90	4.14	27	33	5.73	<.2	6.52	3.5	49	.56	E.005	<.016	<.002
19...	--	--	--	--	--	--	--	--	--	.39	.058	<.016	<.002
19...	--	--	--	--	--	--	--	--	--	1.1	.641	<.016	.002

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

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

Date	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)	Lead, water, unfltrd recover-able, ug/L (01051)
OCT													
31...	<.006	.018	6.7	E1.5	<.1	60	<2	<.04	<.8	.649	.8	670	.18
31...	<.006	.024	--	--	--	--	--	--	--	--	--	2,380	--
31...	.197	.25	--	--	--	--	--	--	--	--	--	12,200	--
APR													
08...	<.006	.015	5.5	E1.0	<.1	27	<2	<.04	<.8	.138	.9	390	.08
08...	<.006	.019	--	--	--	--	--	--	--	--	--	690	--
08...	<.006	.021	--	--	--	--	--	--	--	--	--	810	--
JUN													
25...	<.006	.014	7.0	4.0	<.1	--	--	--	--	--	--	100	--
25...	<.006	.014	--	--	--	--	--	--	--	--	--	330	--
25...	<.006	.026	--	--	--	--	--	--	--	--	--	3,910	--
AUG													
19...	<.006	.024	6.7	12.1	<.1	--	--	--	--	--	--	90	--
19...	<.006	.019	--	--	--	--	--	--	--	--	--	320	--
19...	E.005	.026	--	--	--	--	--	--	--	--	--	5,890	--

Date	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)
OCT						
31...	520	E.02	<.2	.28	<.4	<.16
31...	1,290	--	--	--	--	--
31...	2,640	--	--	--	--	--
APR						
08...	35.8	.04	<.2	.23	<.4	<.16
08...	127	--	--	--	--	--
08...	297	--	--	--	--	--
JUN						
25...	121	--	--	--	--	--
25...	901	--	--	--	--	--
25...	2,420	--	--	--	--	--
AUG						
19...	57.2	--	--	--	--	--
19...	2,520	--	--	--	--	--
19...	2,910	--	--	--	--	--

Remark codes used in this table:

- < -- Less than
- E -- Estimated value

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

