



Water-Data Report 2007

0209799150 B. EVERETT JORDAN LAKE ABOVE U.S. HIGHWAY 64 AT WILSONVILLE, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 35°44'30", long 79°01'09" referenced to North American Datum of 1983, Chatham County, NC, Hydrologic Unit 03030002, 0.2 mi above bridge on U.S. Highway 64, and 1.1 mi west of Wilsonville.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.--Station operated to define water quality as part of a regional surface-water quality assessment. Samples for nutrient, chlorophyll *a*, and pheophytin *a* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique. Prior to October 1, 2005, samples for chlorophyll *a* were analyzed using a high-performance liquid chromatography method.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 4

[Remark codes: <, less than; E, estimated.]

Date	Time	Color, water, ftrd, 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 sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, wat unf 25 degC (00095)	Temper-ature, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, ftrd, mg/L (00915)	Magnes-ium, water, ftrd, mg/L (00925)
Oct													
10...	1315	20	1.0	.90	761	8.4	96	7.7	186	21.6	32	8.05	2.98
10...	1320	--	4.0	--	761	6.7	75	7.0	185	20.9	--	--	--
10...	1325	--	9.0	--	761	5.5	62	6.8	188	20.8	--	--	--
Apr													
18...	1130	40	1.0	.60	753	7.9	80	6.8	126	15.3	26	6.58	2.44
18...	1135	--	5.0	--	753	7.7	77	6.8	126	15.2	--	--	--
18...	1140	--	11.0	--	753	7.6	76	6.7	128	14.9	--	--	--
Jun													
29...	1015	30	1.0	1.00	761	5.6	71	7.2	143	27.8	30	7.50	2.70
29...	1020	--	4.0	--	761	3.5	44	7.0	144	27.0	--	--	--
29...	1025	--	8.0	--	761	.3	3	6.8	163	21.3	--	--	--
Aug													
22...	0945	30	1.0	.70	760	--	--	--	159	28.9	32	8.04	3.01
22...	0950	--	4.0	--	760	--	--	--	159	28.8	--	--	--
22...	0955	--	8.0	--	760	--	--	--	206	22.9	--	--	--

0209799150 B. EVERETT JORDAN LAKE ABOVE U.S. HIGHWAY 64 AT WILSONVILLE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 4

[Remark codes: <, less than; E, estimated.]

Date	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicar- bonate, wat unf incrm. titr., field, 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)	Nitrite water, fltrd, mg/L as N (00613)
Oct													
10...	3.92	20.5	38	46	18.0	.25	4.41	14.2	120	.78	.063	.021	.005
10...	--	--	--	--	--	--	--	--	--	.75	.130	.033	.005
10...	--	--	--	--	--	--	--	--	--	.78	.078	.025	.005
Apr													
18...	2.79	12.4	26	32	10.8	.13	3.35	11.5	80	.73	.122	.084	.005
18...	--	--	--	--	--	--	--	--	--	.70	.121	.082	.005
18...	--	--	--	--	--	--	--	--	--	.67	.135	.109	.005
Jun													
29...	3.09	13.5	33	40	12.3	.16	1.65	11.9	93	.64	<.020	<.016	<.002
29...	--	--	--	--	--	--	--	--	--	.66	<.020	<.016	<.002
29...	--	--	--	--	--	--	--	--	--	.91	.212	<.016	<.002
Aug													
22...	3.58	16.3	36	43	14.6	.21	3.18	11.4	90	.76	E.010	<.016	<.002
22...	--	--	--	--	--	--	--	--	--	.76	.030	<.016	E.001
22...	--	--	--	--	--	--	--	4.81	--	1.9	1.27	<.016	E.002

0209799150 B. EVERETT JORDAN LAKE ABOVE U.S. HIGHWAY 64 AT WILSONVILLE, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 4

[Remark codes: <, less than; E, estimated.]

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, fltrd, mg/L (00681)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phyton, fluoro, µg/L (70953)	Pheophytin a, phyton, µg/L (62360)	Aluminum, water, unfltrd recover-able, µg/L (01105)	Arsenic, water, unfltrd µg/L (01002)	Cadmium, water, unfltrd µg/L (01027)	Chromium, water, unfltrd recover-able, µg/L (01034)	Cobalt, water, unfltrd recover-able, µg/L (01037)	Copper, water, unfltrd recover-able, µg/L (01042)	Iron, water, unfltrd recover-able, µg/L (01045)
Oct													
10...	E.004	.048	--	10.5	36.3	13.2	48	.80	E.01	E.59	.127	<1.2	148
10...	E.003	.043	--	--	--	--	--	--	--	--	--	--	165
10...	E.003	.039	--	--	--	--	--	--	--	--	--	--	200
Apr													
18...	E.005	.067	--	9.1	13.6	8.0	202	.45	E.01	<.60	.27	1.6	398
18...	E.004	.053	--	--	--	--	--	--	--	--	--	--	392
18...	E.005	.052	--	--	--	--	--	--	--	--	--	--	415
Jun													
29...	<.006	.044	--	9.0	15.7	6.2	--	--	--	--	--	--	81
29...	<.006	.038	--	--	--	--	--	--	--	--	--	--	84
29...	.024	.106	--	--	--	--	--	--	--	--	--	--	1,450
Aug													
22...	E.004	.042	6.9	8.7	31.2	10.7	--	--	--	--	--	--	115
22...	E.003	.041	--	--	--	--	--	--	--	--	--	--	128
22...	.095	.182	8.8	--	--	--	--	--	--	--	--	--	3,510

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WATER-QUALITY DATA
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Part 4 of 4

[Remark codes: <, less than; E, estimated.]

Date	Lead, water, unfltrd recover -able, µg/L (01051)	Mangan- ese, water, unfltrd recover -able, µg/L (01055)	Mercury water, fltrd, recover µg/L (71890)	Mercury water, unfltrd recover -able, µg/L (71900)	Molyb- denum, water, unfltrd recover -able, µg/L (01062)	Nickel, water, unfltrd recover -able, µg/L (01067)	Selen- ium, water, unfltrd recover -able, µg/L (01147)	Silver, water, unfltrd recover -able, µg/L (01077)	Zinc, water, unfltrd recover -able, µg/L (01092)
Oct									
10...	.14	116	--	.010	3.9	.71	.17	<.02	E2
10...	--	131	--	--	--	--	--	--	--
10...	--	161	--	--	--	--	--	--	--
Apr									
18...	.41	105	--	.028	1.4	.94	.14	<.02	2.3
18...	--	103	--	--	--	--	--	--	--
18...	--	111	--	--	--	--	--	--	--
Jun									
29...	--	125	--	--	--	--	--	--	--
29...	--	146	--	--	--	--	--	--	--
29...	--	2,270	--	--	--	--	--	--	--
Aug									
22...	--	194	.018	.046	--	--	--	--	--
22...	--	228	--	--	--	--	--	--	--
22...	--	3,790	.014	.025	--	--	--	--	--