



Water-Data Report 2007

**0209768310 B. EVERETT JORDAN LAKE AT BUOY 12 AT FARRINGTON, NC**

Cape Fear Basin  
Haw Subbasin

LOCATION.--Lat 35°47'56", long 79°00'21" referenced to North American Datum of 1983, Chatham County, NC, Hydrologic Unit 03030002, .02 mi above Secondary Road 1008, and 0.2 mi east of Farrington.

DRAINAGE AREA.--

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1992 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, 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 sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, wat unf μS/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)
<b>Oct</b>													
10...	1100	30	1.0	.40	761	8.4	92	7.3	177	19.8	29	7.39	2.54
10...	1105	--	2.0	--	761	8.3	91	7.2	177	19.7	--	--	--
10...	1110	--	4.0	--	761	8.2	89	7.2	177	19.7	--	--	--
<b>Apr</b>													
19...	1215	50	1.0	.60	756	10.0	102	7.8	138	15.9	29	7.27	2.54
19...	1220	--	3.0	--	756	8.7	87	6.9	138	15.4	--	--	--
19...	1225	--	6.0	--	756	8.2	83	6.7	139	15.2	--	--	--
<b>Jun</b>													
28...	0930	40	1.0	.60	760	5.8	74	7.5	160	28.1	39	9.28	3.73
28...	0935	--	2.0	--	760	5.5	70	7.4	164	27.7	--	--	--
28...	0940	--	4.0	--	760	.4	5	6.8	170	26.6	--	--	--
<b>Aug</b>													
21...	1230	40	1.0	.40	759	--	--	--	213	28.6	36	9.17	3.10
21...	1235	--	2.0	--	759	--	--	--	212	28.5	--	--	--
21...	1240	--	3.0	--	759	--	--	--	211	28.5	--	--	--

## 0209768310 B. EVERETT JORDAN LAKE AT BUOY 12 AT FARRINGTON, NC—Continued

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

Part 2 of 4

[Remark codes: &lt;, 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)
<b>Oct</b>													
10...	3.85	19.6	35	42	16.6	.26	4.52	15.8	112	1.0	<.020	.026	.004
10...	--	--	--	--	--	--	--	--	--	.97	E.015	.025	.004
10...	--	--	--	--	--	--	--	--	--	.88	E.010	.022	.004
<b>Apr</b>													
19...	2.88	14.2	29	35	12.1	.15	1.66	12.1	86	.80	<.020	.016	.003
19...	--	--	--	--	--	--	--	--	--	.76	.020	.029	.003
19...	--	--	--	--	--	--	--	--	--	.69	.028	.026	.003
<b>Jun</b>													
28...	5.75	45.0	33	40	35.1	.37	4.22	27.7	215	1.5	<.020	.220	.007
28...	--	--	--	--	--	--	--	--	--	.96	.022	.283	.007
28...	--	--	--	--	--	--	--	--	--	.88	.068	.450	.009
<b>Aug</b>													
21...	4.37	23.6	41	50	19.5	.27	4.08	16.3	115	1.3	.095	<.016	.003
21...	--	--	--	--	--	--	--	--	--	1.2	.257	E.010	.005
21...	--	--	--	--	--	--	--	16.4	--	1.3	.301	E.008	.006

## 0209768310 B. EVERETT JORDAN LAKE AT BUOY 12 AT FARRINGTON, NC—Continued

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

Part 3 of 4

[Remark codes: &lt;, 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)
<b>Oct</b>													
10...	E.003	.080	--	11.0	42.8	16.4	193	.81	E.01	E.59	.268	1.2	399
10...	E.004	.085	--	--	--	--	--	--	--	--	--	--	397
10...	E.004	.084	--	--	--	--	--	--	--	--	--	--	377
<b>Apr</b>													
19...	<.006	.076	--	E9.6	29.3	16.7	142	.56	.02	<.60	.39	1.5	318
19...	<.006	.061	--	--	--	--	--	--	--	--	--	--	321
19...	<.006	.062	--	--	--	--	--	--	--	--	--	--	317
<b>Jun</b>													
28...	.007	.186	--	9.4	26.8	10.7	--	--	--	--	--	--	248
28...	.015	.124	--	--	--	--	--	--	--	--	--	--	284
28...	.039	.143	--	--	--	--	--	--	--	--	--	--	412
<b>Aug</b>													
21...	E.004	.103	8.3	11.7	55.9	29.1	--	--	--	--	--	--	518
21...	E.005	.097	--	--	--	--	--	--	--	--	--	--	506
21...	E.006	.099	7.6	--	--	--	--	--	--	--	--	--	523

## 0209768310 B. EVERETT JORDAN LAKE AT BUOY 12 AT FARRINGTON, NC—Continued

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

Part 4 of 4

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

Date	Lead,	Mangan-		Mercury	Molyb-	Nickel,		Silver,	Zinc,
	water,	ese,	Mercury	water,	denum,	water,	Selen-	water,	water,
	unfltrd	water,	water,	unfltrd	water,	unfltrd	ium,	unfltrd	unfltrd
	recover	recover	fltrd,	recover	recover	recover	water,	recover	recover
	-able,	-able,	able,	-able,	-able,	-able,	unfltrd	-able,	-able,
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	(01051)	(01055)	(71890)	(71900)	(01062)	(01067)	(01147)	(01077)	(01092)
<b>Oct</b>									
10...	.43	137	--	E.006	4.5	.88	.17	<.02	2
10...	--	136	--	--	--	--	--	--	--
10...	--	134	--	--	--	--	--	--	--
<b>Apr</b>									
19...	.37	91.6	--	.833	2.5	.92	.14	<.02	3.6
19...	--	80.7	--	--	--	--	--	--	--
19...	--	81.6	--	--	--	--	--	--	--
<b>Jun</b>									
28...	--	95.1	--	--	--	--	--	--	--
28...	--	103	--	--	--	--	--	--	--
28...	--	136	--	--	--	--	--	--	--
<b>Aug</b>									
21...	--	216	.072	.077	--	--	--	--	--
21...	--	261	--	--	--	--	--	--	--
21...	--	284	.014	.020	--	--	--	--	--