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Water-Data Report 2008

**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.

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

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Time	Sample medium and type	Color, water, filtrd, 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)
<b>Oct</b>									
17...	1215	Surface water, regular	40	1.0	.70	762	5.3	60	7.2
17...	1216	<i>QC - Surface water, replicate</i>	--	--	.70	--	--	--	--
17...	1217	<i>QC - Surface water, replicate</i>	--	--	.70	--	--	--	--
17...	1220	Surface water, regular	--	4.0	--	762	4.7	54	7.2
17...	1225	Surface water, regular	--	8.0	--	762	4.4	50	7.1
<b>Dec</b>									
05...	1015	Surface water, regular	--	1.4	.70	--	--	--	--
05...	1020	Surface water, regular	40	1.0	--	751	8.6	79	7.2
05...	1025	Surface water, regular	--	5.0	--	751	8.4	77	7.2
05...	1030	Surface water, regular	--	9.0	--	751	8.4	77	7.2
<b>Feb</b>									
28...	0845	Surface water, regular	--	1.4	.70	--	--	--	--
28...	0850	Surface water, regular	20	1.0	--	763	10.9	94	7.6
28...	0855	Surface water, regular	--	4.0	--	763	10.8	93	7.6
28...	0900	Surface water, regular	--	9.0	--	763	10.7	92	7.6
<b>Apr</b>									
23...	1230	Surface water, regular	--	1.6	.80	--	--	--	--
23...	1235	Surface water, regular	50	1.0	--	762	9.2	97	7.5
23...	1240	Surface water, regular	--	5.0	--	762	8.7	91	7.3
23...	1245	Surface water, regular	--	10.0	--	762	5.3	53	6.9
<b>Jun</b>									
20...	0930	Surface water, regular	--	2.8	1.40	--	--	--	--
20...	0935	Surface water, regular	25	1.0	--	762	7.2	92	8.0
20...	0940	Surface water, regular	--	4.0	--	762	2.1	27	7.0
20...	0945	Surface water, regular	--	9.0	--	762	.2	2	7.0
<b>Aug</b>									
05...	1100	Surface water, regular	--	2.4	1.20	--	--	--	--
05...	1105	Surface water, regular	25	1.0	--	758	8.7	118	8.9
05...	1110	Surface water, regular	--	4.0	--	758	.7	8	6.9
05...	1115	Surface water, regular	--	8.0	--	758	.2	2	7.0

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

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Specif-ic conduc-tance, wat unf μS/cm		Hard-ness, water, mg/L as CaCO <sub>3</sub>		Magnes-ium, water, mg/L (00915)		Potas-sium, water, mg/L (00925)		Sodium, water, mg/L (00935)		ANC, wat unf infl pt titr., mg/L as CaCO <sub>3</sub> (00419)		Bicar-bonate, wat unf infl pt titr., mg/L as CaCO <sub>3</sub> (00450)		Chlor-ide, water, mg/L (00940)		Fluor-ide, water, mg/L (00950)		Silica, water, mg/L as SiO <sub>2</sub> (00955)		Sulfate water, mg/L (00945)	
	25 degC (00095)	Temper-ature, water, deg C (00010)	water, mg/L as CaCO <sub>3</sub> (00900)	water, mg/L (00900)	water, mg/L (00915)	water, mg/L (00925)	water, mg/L (00925)	water, mg/L (00935)	water, mg/L (00935)	water, mg/L (00935)	water, mg/L (00935)	water, mg/L (00935)	water, mg/L (00935)	water, mg/L (00935)	water, mg/L (00935)	water, mg/L (00935)	water, mg/L (00935)	water, mg/L (00935)	water, mg/L (00935)	water, mg/L (00935)	water, mg/L (00935)	
<b>Oct</b>																						
17...	180	21.6	37	9.43	3.32	4.08	20.7	41	50	16.6	.23	4.66	12.5									
17...	--	--	--	--	--	--	--	--	--	--	--	--	--									
17...	--	--	--	--	--	--	--	--	--	--	--	--	--									
17...	181	21.3	--	--	--	--	--	--	--	--	--	--	--									
17...	181	21.3	--	--	--	--	--	--	--	--	--	--	--									13.4
<b>Dec</b>																						
05...	--	--	--	--	--	--	--	--	--	--	--	--	--									
05...	183	10.5	35	8.69	3.14	4.06	22.7	39	47	18.1	.26	4.90	17.1									
05...	182	10.5	--	--	--	--	--	--	--	--	--	--	--									
05...	182	10.5	--	--	--	--	--	--	--	--	--	--	--									17.1
<b>Feb</b>																						
28...	--	--	--	--	--	--	--	--	--	--	--	--	--									
28...	194	8.9	33	8.19	2.98	3.94	24.8	36	44	19.9	.23	3.38	21.8									
28...	194	8.9	--	--	--	--	--	--	--	--	--	--	--									
28...	196	8.9	--	--	--	--	--	--	--	--	--	--	--									21.8
<b>Apr</b>																						
23...	--	--	--	--	--	--	--	--	--	--	--	--	--									
23...	176	17.8	30	7.49	2.78	3.79	20.7	32	39	17.6	.17	.47	21.0									
23...	177	17.6	--	--	--	--	--	--	--	--	--	--	--									
23...	184	15.4	--	--	--	--	--	--	--	--	--	--	--									20.8
<b>Jun</b>																						
20...	--	--	--	--	--	--	--	--	--	--	--	--	--									
20...	183	27.9	34	8.37	3.12	3.95	20.0	34	42	17.0	.20	.65	18.6									
20...	184	26.7	--	--	--	--	--	--	--	--	--	--	--									
20...	203	21.8	--	--	--	--	--	--	--	--	--	--	--									14.1
<b>Aug</b>																						
05...	--	--	--	--	--	--	--	--	--	--	--	--	--									
05...	190	30.9	36	9.19	3.19	4.17	21.4	37.8	44.0	17.5	.22	2.29	17.6									
05...	186	28.8	--	--	--	--	--	--	--	--	--	--	--									
05...	223	25.8	--	--	--	--	--	--	--	--	--	--	--									11.9

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

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Residue on evap. 180degC wat flt	Ammonia + org-N, water, mg/L (70300)	Ammonia + water, mg/L (00625)	Nitrate + nitrite water, mg/L (00608)	Nitrite water, mg/L (00631)	Ortho- phosphate, water, mg/L (00613)	Phos- phorus, water, mg/L (00671)	Organic carbon, water, mg/L (00665)	Organic carbon, water, mg/L (00681)	Chloro- phyll a, phyto- plankton, μg/L (70953)	Pheo- phytin, phyto- plankton, μg/L (62360)	Alum- inum, water, unfltrd recover- able, μg/L (01105)	Arsenic water, unfltrd μg/L (01002)
<b>Oct</b>													
17...	111	1.1	.031	<.016	E.001	E.004	.068	6.2	10.2	52.3	19.3	60	.75
17...	--	--	--	--	--	--	--	--	--	48.9	18.6	--	--
17...	--	--	--	--	--	--	--	--	--	50.2	19.2	--	--
17...	--	.97	.061	<.016	E.002	<.006	.057	--	--	--	--	--	--
17...	--	1.0	.090	<.016	E.002	<.006	.066	7.7	--	--	--	--	--
<b>Dec</b>													
05...	--	.79	.106	.278	.082	<.006	.045	--	--	15.6	10.1	--	--
05...	115	--	--	--	--	--	--	6.0	8.8	--	--	--	--
05...	--	.80	.108	.271	.083	E.004	.046	--	--	--	--	--	--
05...	--	.81	.112	.269	.083	E.003	.066	6.1	--	--	--	--	--
<b>Feb</b>													
28...	--	.83	E.013	.363	.006	E.003	.051	--	--	23.1	16.9	--	--
28...	127	--	--	--	--	--	--	5.9	7.6	--	--	--	--
28...	--	.80	E.013	.362	.006	E.003	.046	--	--	--	--	--	--
28...	--	.76	E.014	.378	.006	E.003	.042	6.0	--	--	--	--	--
<b>Apr</b>													
23...	--	.89	.032	.060	.005	E.003	.072	--	--	29.4	15.7	--	--
23...	128	--	--	--	--	--	--	7.0	10.0	--	--	154	E.49
23...	--	.85	.038	.072	.005	E.003	.070	--	--	--	--	--	--
23...	--	.78	.104	.204	.013	E.004	.059	6.3	--	--	--	--	--
<b>Jun</b>													
20...	--	.65	<.020	<.016	<.002	<.006	.033	--	--	15.3	7.3	--	--
20...	115	--	--	--	--	--	--	7.9	9.4	--	--	--	--
20...	--	.65	<.020	<.016	<.002	<.006	.035	--	--	--	--	--	--
20...	--	1.2	.480	<.016	E.001	.075	.175	8.5	--	--	--	--	--
<b>Aug</b>													
05...	--	.72	<.020	<.016	<.002	E.004	.036	--	--	15.4	4.8	--	--
05...	124	--	--	--	--	--	--	7.8	9.7	--	--	--	--
05...	--	.62	<.020	<.016	<.002	E.004	.035	--	--	--	--	--	--
05...	--	1.4	.683	<.016	<.002	.080	.152	8.0	--	--	--	--	--

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

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 5

[QC, quality control sample. Remark codes: &lt;, less than; E, estimated.]

Date	Cadmium water, unfltrd (01027)	Chromium, water, unfltrd (01034)	Cobalt water, unfltrd (01037)	Copper, water, unfltrd (01042)	Iron, water, unfltrd (01045)	Lead, water, unfltrd (01051)	Manganese, water, unfltrd (01055)	Mercury, water, fltrd, (71890)	Mercury, water, unfltrd (71900)	Molybdenum, water, unfltrd (01062)	Nickel, water, unfltrd (01067)	Selenium, water, unfltrd (01147)	Silver, water, unfltrd (01077)
<b>Oct</b>													
17...	.02	<.40	.13	<1.2	254	.19	302	E.008	.019	4.5	.56	.17	<.02
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	259	--	285	--	--	--	--	--	--
17...	--	--	--	--	337	--	350	E.006	.010	--	--	--	--
<b>Dec</b>													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	570	--	252	E.008	.022	--	--	--	--
05...	--	--	--	--	291	--	181	--	--	--	--	--	--
05...	--	--	--	--	255	--	170	<.010	E.010	--	--	--	--
<b>Feb</b>													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	229	--	93.3	.020	.023	--	--	--	--
28...	--	--	--	--	229	--	92.5	--	--	--	--	--	--
28...	--	--	--	--	228	--	91.0	.010	E.009	--	--	--	--
<b>Apr</b>													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	<.01	E.35	.18	1.3	269	.34	84.6	<.010	<.010	2.1	1.1	.17	<.02
23...	--	--	--	--	261	--	77.2	--	--	--	--	--	--
23...	--	--	--	--	384	--	159	<.010	<.010	--	--	--	--
<b>Jun</b>													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	61	--	55.6	<.010	<.010	--	--	--	--
20...	--	--	--	--	84	--	102	--	--	--	--	--	--
20...	--	--	--	--	2,150	--	2,420	<.010	<.010	--	--	--	--
<b>Aug</b>													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	62	--	61.2	E.009	.013	--	--	--	--
05...	--	--	--	--	83	--	182	--	--	--	--	--	--
05...	--	--	--	--	1,730	--	2,500	E.006	E.006	--	--	--	--

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

Date	Zinc, water, unfiltrd recover -able, µg/L (01092)
Oct	
17...	2.1
17...	--
17...	--
17...	--
17...	--
Dec	
05...	--
05...	--
05...	--
05...	--
Feb	
28...	--
28...	--
28...	--
28...	--
Apr	
23...	--
23...	2.2
23...	--
23...	--
Jun	
20...	--
20...	--
20...	--
20...	--
Aug	
05...	--
05...	--
05...	--
05...	--