



Water-Data Report 2007

0209699999 B. EVERETT JORDAN LAKE, HAW RIVER ARM NEAR HANKS CHAPEL, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 35°42'19", long 79°05'04" referenced to North American Datum of 1983, Chatham County, NC, Hydrologic Unit 03030002, 2.2 mi below bridge on U.S. Highway 64, and 2.2 mi east of Hanks Chapel.

DRAINAGE AREA.--1,303 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1991 to current year. Prior to October 1993, published as Haw River at U.S. Highway 64 near Pittsboro (station 0209699980). From October 1993 to September 2006, published as B. Everett Jordan Lake, Haw River arm, above B. Everett Jordan dam (station 0209719700)

REMARKS.--Station operated to define water quality as part of a regional surface-water quality assessment. Samples for nutrient, pheophytin *a* and chlorophyll *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 25 degC (00095)	Temper-ature, 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													
10...	1545	20	1.0	.80	757	8.2	92	7.7	201	20.7	31	7.55	2.85
10...	1550	--	2.0	--	757	7.3	81	7.2	201	20.4	--	--	--
10...	1555	--	4.0	--	757	7.9	85	7.0	242	18.4	--	--	--
Apr													
19...	0900	80	1.0	.30	756	8.9	87	6.7	85	14.4	27	6.42	2.60
19...	0905	--	2.0	--	756	8.9	88	6.7	85	14.3	--	--	--
19...	0910	--	6.0	--	756	8.3	81	6.3	79	13.9	--	--	--
Jun													
28...	1145	35	1.0	.60	761	10.4	137	9.0	309	29.7	32	8.12	2.81
28...	1150	--	2.0	--	761	7.7	100	8.5	326	29.0	--	--	--
28...	1155	--	4.0	--	761	.3	3	6.7	284	26.1	--	--	--
Aug													
21...	1000	40	1.0	.60	760	6.5	87	6.6	282	30.1	32	7.47	3.22
21...	1005	--	2.0	--	760	5.9	79	6.5	284	30.0	--	--	--
21...	1010	--	3.1	--	760	4.3	57	6.1	289	29.7	--	--	--

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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...	3.85	22.1	42	51	19.4	.22	5.43	15.3	110	.75	.034	.225	.010
10...	--	--	--	--	--	--	--	--	--	.77	.053	.225	.011
10...	--	--	--	--	--	--	--	--	--	.55	.036	.767	.006
Apr													
19...	2.34	5.84	22	27	5.34	E.07	11.7	7.65	71	.55	.027	.372	.004
19...	--	--	--	--	--	--	--	--	--	.56	.027	.367	.004
19...	--	--	--	--	--	--	--	--	--	.58	.031	.372	.004
Jun													
28...	3.47	17.0	55	67	13.9	.21	1.49	13.2	98	.84	<.020	<.016	<.002
28...	--	--	--	--	--	--	--	--	--	.96	.064	<.016	<.002
28...	--	--	--	--	--	--	--	--	--	.85	<.020	<.016	<.002
Aug													
21...	4.92	36.4	45	60	30.3	.33	4.33	24.8	154	1.1	E.010	<.016	E.001
21...	--	--	--	--	--	--	--	--	--	1.0	<.020	<.016	E.001
21...	--	--	--	--	--	--	--	24.7	--	1.0	<.020	E.012	.002

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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)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, fltrd, mg/L (00681)	Organic carbon, water, unfltrd mg/L (00680)	Chloro-phyll a phyto-plank-ton, fluoro, µg/L (70953)	Pheo-phytin a, phyto-plank-ton, µg/L (62360)	Alum-inum, water, unfltrd recover-able, µg/L (01105)	Arsenic water, unfltrd µg/L (01002)	Cadmium water, unfltrd µg/L (01027)	Chrom-ium, 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...	.007	.077	--	9.0	29.8	7.8	65	.69	.03	.76	.379	1.6	189
10...	.011	.074	--	--	--	--	--	--	--	--	--	--	191
10...	.077	.129	--	--	--	--	--	--	--	--	--	--	358
Apr													
19...	.018	.114	--	E8.5	10.5	4.6	546	.45	.03	1.2	.60	2.7	1,070
19...	.016	.116	--	--	--	--	--	--	--	--	--	--	1,140
19...	.019	.113	--	--	--	--	--	--	--	--	--	--	1,060
Jun													
28...	E.004	.060	--	10.2	64.3	27.8	--	--	--	--	--	--	207
28...	E.005	.102	--	--	--	--	--	--	--	--	--	--	504
28...	E.003	.063	--	--	--	--	--	--	--	--	--	--	211
Aug													
21...	.007	.125	6.6	9.9	46.1	22.9	--	--	--	--	--	--	403
21...	E.005	.109	--	--	--	--	--	--	--	--	--	--	392
21...	.011	.119	8.7	--	--	--	--	--	--	--	--	--	465

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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...	.17	54.9	--	<.010	2.2	1.41	.19	<.02	2
10...	--	55.6	--	--	--	--	--	--	--
10...	--	64.6	--	--	--	--	--	--	--
Apr									
19...	.91	73.5	--	.094	.2	.89	.13	E.01	5.7
19...	--	72.4	--	--	--	--	--	--	--
19...	--	74.9	--	--	--	--	--	--	--
Jun									
28...	--	168	--	--	--	--	--	--	--
28...	--	566	--	--	--	--	--	--	--
28...	--	156	--	--	--	--	--	--	--
Aug									
21...	--	107	.022	.038	--	--	--	--	--
21...	--	107	--	--	--	--	--	--	--
21...	--	144	.013	.015	--	--	--	--	--