

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, NC" (station 0209699980). 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.

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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)
Oct													
16...	1045	40	1.0	.70	762	10.2	116	8.2	371	21.3	40	9.24	4.00
16...	1050	--	2.0	--	762	10.0	111	8.3	445	20.4	--	--	--
16...	1055	--	2.5	--	762	9.2	102	8.1	506	19.9	--	--	--
Dec													
06...	1245	--	2.2	1.10	--	--	--	--	--	--	--	--	--
06...	1250	40	1.0	--	765	10.9	92	7.9	355	7.9	43	10.8	3.83
06...	1300	--	2.0	--	765	10.7	89	7.9	370	7.6	--	--	--
Feb													
26...	1315	--	2.8	1.40	--	--	--	--	--	--	--	--	--
26...	1320	25	1.0	--	743	10.9	100	8.7	226	10.0	38	9.50	3.54
26...	1325	--	2.0	--	743	10.9	98	8.6	225	9.8	--	--	--
26...	1330	--	4.0	--	743	9.5	85	7.6	220	8.9	--	--	--
Apr													
22...	0945	--	1.4	.70	--	--	--	--	--	--	--	--	--
22...	0950	40	1.0	--	756	9.0	94	7.4	191	16.9	36	8.61	3.63
22...	0955	--	2.0	--	756	8.4	88	7.2	187	16.8	--	--	--
22...	1000	--	4.0	--	756	5.1	52	7.1	139	15.9	--	--	--
Jun													
19...	1230	--	1.4	.70	--	--	--	--	--	--	--	--	--
19...	1235	40	1.0	--	757	6.5	83	7.7	237	27.8	36	8.45	3.60
19...	1240	--	2.0	--	757	4.4	56	7.2	243	27.4	--	--	--
19...	1245	--	3.0	--	757	3.6	46	7.0	254	26.8	--	--	--
Aug													
06...	1000	--	1.6	.80	--	--	--	--	--	--	--	--	--
06...	1005	70	1.0	--	756	9.2	123	8.7	335	29.8	36	8.56	3.55
06...	1010	--	2.0	--	756	7.8	103	8.2	338	29.7	--	--	--
06...	1015	--	3.0	--	756	6.4	84	7.6	348	29.6	--	--	--

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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 infl pt titr., field, mg/L as CaCO3 (00419)	Bicar- bonate, wat unf infl pt titr., field, mg/L (00450)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (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)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
Oct													
16...	6.86	61.8	64	78	45.9	.47	3.23	33.9	223	1.1	E.018	.024	.004
16...	--	--	--	--	--	--	--	--	--	1.1	.020	.258	.006
16...	--	--	--	--	--	--	--	50.1	--	.98	.049	.438	.007
Dec													
06...	--	--	--	--	--	--	--	--	--	.81	.076	.976	.020
06...	6.54	53.2	54	66	42.8	.44	3.27	34.3	210	--	--	--	--
06...	--	--	--	--	--	--	--	35.8	--	.77	.075	.978	.017
Feb													
26...	--	--	--	--	--	--	--	--	--	.53	.032	.581	.003
26...	3.67	27.4	35	42	30.6	.20	2.08	19.3	127	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	.50	.039	.583	.003
26...	--	--	--	--	--	--	--	18.6	--	.78	.169	.513	.003
Apr													
22...	--	--	--	--	--	--	--	--	--	.59	<.020	.640	.005
22...	3.33	22.4	38	46	18.7	.17	6.59	20.2	152	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	.67	<.020	.574	.006
22...	--	--	--	--	--	--	--	14.9	--	.79	.123	.363	.007
Jun													
19...	--	--	--	--	--	--	--	--	--	.97	<.020	.080	.007
19...	4.59	28.5	46	54	23.3	.25	4.14	20.8	129	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	.91	.022	.102	.008
19...	--	--	--	--	--	--	--	20.7	--	.98	.195	.142	.007
Aug													
06...	--	--	--	--	--	--	--	--	--	.94	<.020	.043	.003
06...	6.13	49.2	55.4	67.5	37.6	.38	3.00	31.1	189	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	.94	<.020	.049	.003
06...	--	--	--	--	--	--	--	31.6	--	.88	E.014	.120	.004

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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 as P (00665)	Organic carbon, water, fltrd, mg/L (00681)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phytoplankton, fluoro, µg/L (70953)	Pheophytin a, phytoplankton, 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													
16...	E.004	.104	6.5	9.0	44.8	17.0	101	.66	.06	E.38	.66	E1.1	285
16...	E.004	.104	--	--	--	--	--	--	--	--	--	--	350
16...	.006	.108	6.8	--	--	--	--	--	--	--	--	--	452
Dec													
06...	E.006	.065	--	--	10.4	7.0	--	--	--	--	--	--	--
06...	--	--	6.2	8.5	--	--	--	--	--	--	--	--	290
06...	.006	.062	6.2	--	--	--	--	--	--	--	--	--	292
Feb													
26...	.018	.070	--	--	4.2	5.8	--	--	--	--	--	--	--
26...	--	--	5.0	6.2	--	--	--	--	--	--	--	--	449
26...	.019	.066	--	--	--	--	--	--	--	--	--	--	455
26...	.020	.099	5.3	--	--	--	--	--	--	--	--	--	923
Apr													
22...	.017	.092	--	--	4.7	7.0	--	--	--	--	--	--	--
22...	--	--	--	7.2	--	--	253	E.49	.09	1.0	.94	2.5	907
22...	.012	.099	--	--	--	--	--	--	--	--	--	--	965
22...	.009	.115	--	--	--	--	--	--	--	--	--	--	888
Jun													
19...	E.004	.099	--	--	E30.7	E13.2	--	--	--	--	--	--	--
19...	--	--	6.5	9.0	--	--	--	--	--	--	--	--	358
19...	E.004	.097	--	--	--	--	--	--	--	--	--	--	390
19...	.026	.155	7.1	--	--	--	--	--	--	--	--	--	895
Aug													
06...	E.005	.096	--	--	34.2	12.8	--	--	--	--	--	--	--
06...	--	--	6.5	7.8	--	--	--	--	--	--	--	--	180
06...	E.005	.090	--	--	--	--	--	--	--	--	--	--	190
06...	.007	.096	6.4	--	--	--	--	--	--	--	--	--	231

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WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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, unfltrd recover- able, 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 µg/L (01147)	Silver, water, unfltrd recover- able, µg/L (01077)	Zinc, water, unfltrd recover- able, µg/L (01092)
Oct									
16...	.24	108	<.010	<.010	4.7	3.1	.19	<.02	3.9
16...	--	106	--	--	--	--	--	--	--
16...	--	123	<.010	<.010	--	--	--	--	--
Dec									
06...	--	--	--	--	--	--	--	--	--
06...	--	96.9	E.006	E.006	--	--	--	--	--
06...	--	92.8	<.010	E.006	--	--	--	--	--
Feb									
26...	--	--	--	--	--	--	--	--	--
26...	--	63.6	.037	.049	--	--	--	--	--
26...	--	73.0	--	--	--	--	--	--	--
26...	--	299	E.008	E.008	--	--	--	--	--
Apr									
22...	--	--	--	--	--	--	--	--	--
22...	.79	145	E.009	.023	.9	2.3	.17	E.01	10.0
22...	--	232	--	--	--	--	--	--	--
22...	--	409	<.010	E.009	--	--	--	--	--
Jun									
19...	--	--	--	--	--	--	--	--	--
19...	--	125	<.010	<.010	--	--	--	--	--
19...	--	151	--	--	--	--	--	--	--
19...	--	292	<.010	<.010	--	--	--	--	--
Aug									
06...	--	--	--	--	--	--	--	--	--
06...	--	61.3	E.005	.013	--	--	--	--	--
06...	--	60.9	--	--	--	--	--	--	--
06...	--	74.3	E.006	E.006	--	--	--	--	--