

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947, 1955, 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 2000 to current year.

pH: June 2000 to current year.

WATER TEMPERATURE: June 2000 to current year.

DISSOLVED OXYGEN: June 2000 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: June 2000 to current year

TURBIDITY: October 2000 to February 2003.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from June 2000 to current year.

REMARKS.--Station operated in cooperation with the Middle Cape Fear River Association. The constituents were monitored at approximately 10 ft above the streambed. On June 28, 2002 the data sonde was raised to approximately 16 ft above the streambed. Beginning October 1, 2000 dissolved oxygen, percent saturation is computed using a barometric pressure of 760mm Hg. Daily records of water temperature for water years 1947 and 1955 are available in the files of the District Office in Raleigh, NC.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	291, September 3, 2002	38, April 12, 13, 14, 2003
pH, standard units	9.6, August 25, 2002	5.6, August 13, 14, 2003
WATER TEMPERATURE, °C	32.3, July 31, 2002	2.5, January 28, 2003
DISSOLVED OXYGEN, mg/L	13.4, January 30, 2001, January 28, 29, 2003	1.3, June 14, 2002
DISSOLVED OXYGEN, PERCENT SATURATION,%	130, July 16, 2000	17, June 14, 2002
TURBIDITY, NTU	420, January 24, 2002	0.9, May 19, 2002

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	185, October 12	38, April 12, 13, 14
pH, standard units	8.7, October 6	5.6, August 13, 14
WATER TEMPERATURE, °C	29.7, August 30	2.5, January 28
DISSOLVED OXYGEN, mg/L	13.4, January 28, 29	3.4, October 9, 12
DISSOLVED OXYGEN, PERCENT SATURATION,%	114, October 6	40, October 12
TURBIDITY, NTU	410, October 13	3.0, December 5, 6



## 02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	87	79	83	---	---	---	---	---	---	89	87	88
2	82	79	81	---	---	---	---	---	---	93	88	90
3	81	80	80	---	---	---	---	---	---	111	93	100
4	82	76	80	---	---	---	---	---	---	113	88	100
5	77	76	76	---	---	---	---	---	---	116	104	111
6	79	77	78	63	60	61	---	---	---	115	98	110
7	90	78	82	63	61	62	69	62	65	98	90	93
8	98	90	96	65	61	63	69	48	59	94	77	87
9	98	91	96	---	---	---	48	44	46	93	76	84
10	110	89	98	---	---	---	51	46	49	91	81	84
11	92	68	72	---	---	---	52	47	49	96	91	95
12	79	73	76	79	67	74	52	47	50	96	95	95
13	80	79	80	68	65	67	52	45	47	96	92	94
14	86	80	84	66	53	58	49	45	46	92	87	90
15	89	85	88	59	50	55	64	49	58	89	87	89
16	91	87	90	61	55	58	70	64	67	89	88	88
17	87	80	82	91	61	76	76	70	73	92	88	90
18	86	79	83	88	77	80	79	76	78	91	88	90
19	83	79	81	80	77	79	78	69	74	89	88	89
20	80	74	76	80	66	73	73	69	71	88	79	82
21	82	73	78	71	66	68	77	73	75	103	78	90
22	78	74	76	78	70	76	81	77	78	104	78	94
23	82	75	79	82	78	80	84	81	83	96	76	86
24	82	79	81	80	79	80	83	80	81	104	96	102
25	81	78	79	82	75	80	81	78	80	113	92	106
26	85	81	82	75	73	74	82	78	80	92	79	85
27	93	85	89	79	74	78	84	82	83	79	75	76
28	98	93	96	85	79	81	92	83	88	82	76	80
29	97	95	96	86	81	84	92	89	91	90	82	86
30	96	89	93	87	74	81	89	85	87	92	90	91
31	---	---	---	---	---	---	89	86	87	---	---	---
MONTH	110	68	84	---	---	---	---	---	---	116	75	92



## 02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	6.4	6.5	6.5	6.2	6.3	---	---	---	6.4	6.3	6.4
2	6.5	6.5	6.5	6.3	6.2	6.3	---	---	---	6.5	6.4	6.4
3	6.5	6.4	6.5	6.3	6.2	6.2	---	---	---	6.7	6.5	6.6
4	6.4	6.4	6.4	6.4	6.0	6.2	---	---	---	6.7	6.5	6.6
5	6.4	6.4	6.4	6.3	6.2	6.2	---	---	---	6.7	6.6	6.7
6	6.4	6.4	6.4	6.4	6.2	6.3	---	---	---	6.7	6.6	6.7
7	6.6	6.4	6.5	6.5	6.4	6.4	6.3	6.1	6.2	6.6	6.6	6.6
8	6.7	6.6	6.6	6.5	6.4	6.5	6.3	5.9	6.1	6.6	6.4	6.5
9	6.6	6.3	6.5	6.5	6.4	6.4	6.0	5.8	5.9	6.5	6.4	6.4
10	6.6	6.4	6.4	6.5	6.4	6.4	5.9	5.8	5.8	6.6	6.5	6.6
11	6.6	6.2	6.3	6.5	6.0	6.3	6.0	5.8	5.9	6.7	6.6	6.7
12	6.4	6.3	6.3	6.1	5.9	6.0	5.9	5.8	5.8	6.6	6.4	6.5
13	6.5	6.4	6.4	6.2	5.8	5.9	5.8	5.6	5.7	6.4	6.4	6.4
14	6.5	6.4	6.5	6.2	5.7	5.9	5.8	5.6	5.7	6.4	6.3	6.3
15	6.5	6.5	6.5	6.0	5.7	5.8	6.1	5.8	6.0	6.3	6.3	6.3
16	6.6	6.5	6.5	6.2	5.7	5.9	6.2	6.0	6.1	6.3	6.3	6.3
17	6.5	6.3	6.3	6.6	6.0	6.3	6.3	6.1	6.2	6.4	6.3	6.3
18	6.4	6.4	6.4	6.8	6.3	6.4	6.3	6.2	6.2	6.4	6.3	6.4
19	6.4	6.4	6.4	6.8	6.3	6.5	6.2	6.1	6.1	6.3	6.2	6.3
20	6.5	6.4	6.4	6.8	6.2	6.4	6.1	6.0	6.1	6.3	6.1	6.1
21	6.5	6.3	6.4	6.8	6.2	6.4	6.2	6.1	6.2	6.4	6.2	6.3
22	6.4	6.3	6.4	6.9	6.3	6.5	6.2	6.2	6.2	6.4	6.1	6.3
23	6.4	6.4	6.4	6.9	6.5	6.6	6.2	6.1	6.1	6.3	6.1	6.2
24	6.4	6.3	6.3	6.6	6.5	6.6	6.1	6.0	6.1	6.5	6.3	6.4
25	6.3	6.3	6.3	6.6	6.3	6.5	6.2	6.0	6.1	6.8	6.3	6.5
26	6.4	6.3	6.3	6.6	6.2	6.4	6.2	6.1	6.2	6.8	6.1	6.3
27	6.5	6.3	6.4	6.6	6.4	6.5	6.3	6.2	6.3	6.7	6.0	6.3
28	6.5	6.4	6.4	6.7	6.5	6.5	6.4	6.3	6.3	6.8	6.2	6.3
29	6.5	6.5	6.5	6.6	6.3	6.5	6.4	6.4	6.4	6.5	6.3	6.4
30	6.5	6.4	6.5	6.6	6.1	6.3	6.4	6.3	6.3	6.5	6.4	6.4
31	---	---	---	---	---	---	6.3	6.3	6.3	---	---	---
MONTH	6.7	6.2	6.4	---	---	---	---	---	---	6.8	6.0	6.4



## 02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.1	19.4	19.7	27.3	26.1	26.6	---	---	---	29.3	28.6	28.9
2	20.5	19.5	19.9	26.1	25.3	25.6	---	---	---	29.2	28.5	28.8
3	20.7	19.9	20.3	25.3	24.2	24.9	---	---	---	28.6	27.8	28.2
4	21.0	20.6	20.8	24.5	23.7	24.1	---	---	---	28.3	27.6	27.8
5	22.0	21.0	21.4	24.6	23.8	24.2	---	---	---	27.6	27.1	27.3
6	22.3	21.6	21.9	25.3	24.5	24.9	---	---	---	27.1	25.8	26.4
7	22.8	22.3	22.6	25.7	25.0	25.3	25.9	25.1	25.4	25.8	25.0	25.3
8	22.6	22.0	22.4	26.3	25.7	25.9	25.2	24.5	24.8	25.0	24.4	24.7
9	23.4	22.4	22.7	27.1	26.3	26.7	24.8	24.3	24.5	24.4	24.0	24.2
10	23.9	23.0	23.5	27.8	27.0	27.3	25.1	24.6	24.8	24.1	23.8	23.9
11	23.9	23.0	23.5	28.1	27.5	27.8	25.1	24.5	24.8	24.2	23.9	24.0
12	24.4	23.4	23.9	27.5	26.9	27.1	25.1	24.4	24.7	24.0	23.5	23.7
13	24.4	23.7	24.0	27.0	26.4	26.8	25.2	24.6	24.9	23.7	23.2	23.4
14	24.6	23.8	24.1	26.4	25.3	25.6	25.8	25.0	25.3	23.8	22.9	23.2
15	25.1	24.3	24.7	25.5	24.8	25.2	26.3	25.4	25.8	24.4	23.1	23.5
16	25.1	24.7	24.9	26.1	25.0	25.5	26.8	26.1	26.4	24.1	23.4	23.7
17	24.7	24.1	24.3	27.5	26.0	26.8	26.8	26.4	26.6	24.0	23.4	23.8
18	24.4	24.2	24.3	27.0	25.6	26.0	27.0	26.5	26.8	23.7	23.0	23.3
19	24.9	24.1	24.5	26.2	25.9	26.0	26.9	26.6	26.8	23.4	22.6	22.9
20	24.8	24.2	24.4	26.2	25.7	25.9	27.2	26.6	26.8	22.7	21.9	22.4
21	24.3	23.4	23.7	26.5	25.8	26.1	27.3	26.7	27.0	23.3	22.1	22.7
22	23.6	22.9	23.3	27.1	26.4	26.7	27.5	26.9	27.2	22.7	21.9	22.3
23	23.8	23.0	23.4	27.1	26.8	26.9	27.5	27.2	27.4	23.0	22.0	22.5
24	24.3	23.6	23.9	27.0	26.6	26.8	27.5	27.1	27.2	23.0	22.6	22.8
25	25.0	24.2	24.6	26.7	26.1	26.5	27.7	27.2	27.3	23.1	22.3	22.7
26	26.7	24.9	25.6	26.4	26.0	26.1	27.9	27.3	27.5	22.6	21.9	22.2
27	27.4	25.6	26.4	27.4	26.4	26.9	27.9	27.4	27.6	22.4	21.9	22.2
28	27.3	26.6	27.0	27.8	27.1	27.5	28.5	27.9	28.1	22.6	22.1	22.3
29	27.6	26.7	27.2	28.7	27.8	28.0	29.1	28.5	28.7	22.5	22.2	22.4
30	27.9	27.0	27.5	28.1	27.4	27.8	29.7	28.4	28.9	22.2	21.4	21.7
31	---	---	---	---	---	---	29.3	28.5	28.9	---	---	---
MONTH	27.9	19.4	23.7	---	---	---	---	---	---	29.3	21.4	24.1





## 02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.8	7.2	7.5	6.1	5.6	5.8	---	---	---	5.8	5.1	5.4
2	7.8	7.2	7.5	6.8	5.8	6.3	---	---	---	5.9	5.3	5.6
3	7.6	7.2	7.4	6.9	6.3	6.6	---	---	---	6.1	5.5	5.8
4	7.5	6.9	7.2	6.8	6.1	6.4	---	---	---	6.1	5.4	5.8
5	7.3	6.7	7.0	6.7	6.2	6.4	---	---	---	6.1	5.5	5.8
6	7.1	6.5	6.8	6.7	6.3	6.5	---	---	---	5.9	5.3	5.6
7	7.2	6.7	7.0	6.7	6.3	6.5	6.2	5.7	5.9	6.3	5.5	5.9
8	7.1	6.7	6.9	6.6	6.0	6.3	6.2	5.8	5.9	6.3	5.6	5.9
9	7.2	6.6	6.9	6.3	5.9	6.1	6.3	5.6	6.0	6.3	5.8	6.1
10	7.1	6.6	6.8	6.3	5.8	6.1	6.0	5.3	5.6	6.5	6.0	6.3
11	6.6	6.3	6.5	6.4	5.4	5.9	6.3	5.5	5.9	6.4	5.8	6.2
12	6.8	6.3	6.7	5.8	5.3	5.6	6.1	5.2	5.7	6.3	5.8	6.0
13	7.0	6.6	6.8	5.8	5.4	5.6	5.7	5.1	5.4	6.1	5.6	5.8
14	7.1	6.6	6.8	6.0	5.5	5.8	5.9	5.2	5.5	6.1	5.5	5.8
15	7.0	6.5	6.8	6.3	5.8	6.0	6.2	5.6	5.9	6.0	5.4	5.7
16	7.0	6.6	6.8	6.2	5.6	5.9	6.5	5.9	6.2	5.8	5.3	5.5
17	7.0	6.6	6.8	6.3	5.7	6.0	6.3	5.8	6.1	5.8	5.3	5.5
18	7.1	6.6	6.9	6.1	5.6	5.9	6.3	5.6	6.0	6.0	5.3	5.7
19	7.1	6.6	6.8	6.1	5.5	5.8	6.2	5.6	5.9	5.9	5.4	5.6
20	6.9	6.5	6.7	5.9	5.5	5.7	6.4	5.8	6.1	6.1	5.3	5.7
21	7.0	6.4	6.7	5.9	5.3	5.7	6.4	5.9	6.2	6.1	5.5	5.9
22	7.2	6.5	6.8	5.7	5.2	5.5	6.4	5.7	6.1	6.1	5.5	5.8
23	7.2	6.7	6.9	5.7	5.2	5.5	6.0	5.4	5.6	6.1	5.5	5.8
24	6.8	6.3	6.5	5.7	5.2	5.4	5.8	5.1	5.4	6.2	5.8	6.0
25	6.7	6.1	6.4	5.6	5.1	5.4	5.6	4.9	5.2	6.4	5.8	6.1
26	6.9	6.2	6.5	6.0	5.3	5.6	5.8	5.2	5.4	6.2	5.8	6.0
27	7.2	6.2	6.6	6.0	5.4	5.7	5.7	5.2	5.5	6.5	6.0	6.3
28	6.6	6.1	6.3	6.1	5.4	5.7	5.9	5.4	5.6	6.6	6.2	6.4
29	6.7	5.9	6.2	6.2	5.4	5.7	6.0	5.5	5.7	6.6	6.1	6.4
30	6.6	5.7	6.0	6.1	5.1	5.7	5.8	5.2	5.6	6.7	6.2	6.5
31	---	---	---	---	---	---	5.5	5.0	5.3	---	---	---
MONTH	7.8	5.7	6.8	---	---	---	---	---	---	6.7	5.1	5.9



02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION—CONTINUED  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	85	79	82	76	70	73	---	---	---	76	66	71
2	86	79	83	83	72	78	---	---	---	77	69	73
3	85	79	82	84	76	80	---	---	---	78	70	75
4	84	78	81	82	73	77	---	---	---	79	69	74
5	82	77	80	81	74	77	---	---	---	78	70	73
6	82	74	78	82	77	79	---	---	---	74	65	70
7	84	77	81	82	77	80	76	70	73	77	68	71
8	82	77	80	81	75	78	75	70	72	76	68	71
9	83	76	80	79	73	76	76	67	72	76	70	73
10	84	78	80	80	74	77	72	64	68	78	72	76
11	79	74	76	82	69	76	76	67	71	77	69	74
12	82	75	79	73	67	71	73	63	69	75	68	71
13	84	78	81	73	68	70	69	62	65	72	66	68
14	85	78	82	74	68	71	73	63	67	72	64	68
15	85	78	82	77	70	73	77	69	73	72	64	67
16	85	80	82	77	68	73	81	74	78	69	62	65
17	85	79	82	79	72	76	79	72	76	69	63	66
18	85	79	83	75	70	73	79	71	75	71	63	67
19	85	79	82	75	68	72	78	70	74	69	63	66
20	83	78	80	73	68	70	81	73	77	71	61	65
21	83	76	80	73	66	70	81	74	78	71	64	68
22	85	76	80	72	65	69	81	72	77	71	63	67
23	85	78	82	72	65	69	76	69	72	71	63	68
24	81	76	78	71	65	68	73	64	68	72	68	70
25	81	73	77	70	64	67	71	62	66	74	68	71
26	86	75	80	75	66	70	74	66	68	72	67	69
27	91	76	82	75	68	71	73	66	70	75	69	72
28	84	76	80	78	68	73	76	69	73	76	72	74
29	85	74	79	79	69	73	78	71	74	76	71	74
30	84	72	76	78	65	73	77	68	72	76	71	74
31	---	---	---	---	---	---	72	65	69	---	---	---
MONTH	91	72	80	---	---	---	---	---	---	79	61	70

