

## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC

LOCATION.--Lat 34°04'35", long 77°55'53", New Hanover County, Hydrologic Unit 03030005, at U.S. Coast Guard Channel Marker 12.

DRAINAGE AREA.--9,000 mi<sup>2</sup>.

PERIOD OF RECORD.--November 2003 to December 2004 (discontinued).

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (TOP AND BOTTOM): November 2003 to December 2004.

SALINITY (TOP AND BOTTOM): November 2003 to December 2004.

pH (TOP AND BOTTOM): November 2003 to December 2004.

WATER TEMPERATURE (TOP AND BOTTOM): November 2003 to December 2004.

DISSOLVED OXYGEN (TOP AND BOTTOM) : November 2003 to December 2004.

DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): November 2003 to December 2004.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from November 2003 to December 2004.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. Salinity and dissolved oxygen, percent saturation are computed. The salinity is computed from specific conductance using the conversion from U.S. Geological Survey Water Supply Paper 2311. The dissolved oxygen, percent saturation is computed using a barometric pressure of 760 mm of Hg.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE (TOP), microsiemens	40,100, November 14, 2004	140, August 22, 2004
SPEICIFC CONDUCTANCE (BOTTOM), microsiemens	44,900, November 14, 2004	100, August 22, 2004
SALINITY (TOP), ppt	25.6, November 14, 2004	.06, August 21, 22, 2004
SALINITY (BOTTOM), ppt	29.0, November 14, 2004	.04, August 22, 2004
pH (TOP), standard units	8.4, June 22, 2004	6.2, August 22, 2004
pH (BOTTOM), standard units	8.3, June 23, 25, 2004	5.7, August 22, 2004
WATER TEMPERATURE (TOP), °C	31.2, August 4, 2004	4.9, February 2, 2004
WATER TEMPERATURE (BOTTOM), °C	30.5, July 10, 2004	5.6, January 29, 2004
DISSOLVED OXYGEN (TOP), mg/L	11.3, February 8, 10, 11, 2004	3.4, September 16, 2004
DISSOLVED OXYGEN (BOTTOM), mg/L	10.9, February 12, 2004	2.9, July 30, 2004
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	133, June 23, 2004	41, September 16, 2004
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	117, June 23, 2004	37, July 30, 2004



## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS, TOP—CONTINUED  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	37,000	22,400	27,800	37,100	21,800	27,700	38,900	25,000	31,400	18,600	4,000	9,600
2	38,300	22,600	28,700	37,300	20,700	27,500	39,000	23,700	30,500	17,400	3,030	7,220
3	38,100	22,000	28,600	36,300	19,100	26,500	38,000	20,700	28,600	15,700	2,850	6,430
4	37,700	22,800	28,800	36,700	19,000	25,900	37,100	22,200	27,500	11,600	2,430	5,180
5	38,800	21,900	28,800	36,900	19,100	25,600	36,200	21,900	27,400	13,800	1,880	4,490
6	38,800	24,000	29,600	34,700	18,800	24,900	33,300	19,000	24,200	10,000	2,670	4,940
7	38,400	23,700	29,700	34,400	20,600	26,100	33,000	18,400	24,200	14,800	2,820	6,120
8	38,000	22,500	29,000	34,800	21,000	26,100	32,700	19,600	23,700	14,900	4,410	8,610
9	35,500	21,500	27,700	33,500	20,600	25,600	30,300	18,600	23,200	10,600	4,090	6,980
10	35,400	20,700	26,900	31,500	19,500	24,800	30,800	17,200	22,600	9,290	2,100	4,300
11	34,200	20,600	25,900	32,300	18,800	24,000	31,000	19,200	23,900	13,500	2,150	4,610
12	32,200	19,700	25,400	31,400	18,500	23,900	32,600	20,700	24,800	11,800	2,580	5,220
13	34,500	20,900	26,600	32,800	20,500	24,900	29,500	20,200	24,100	15,000	3,260	6,510
14	34,100	21,400	26,700	34,300	21,300	25,500	28,300	18,000	22,900	15,000	3,430	6,930
15	34,100	21,600	26,800	34,400	21,400	26,300	23,000	8,560	16,200	13,000	2,100	5,490
16	34,000	20,900	26,100	34,700	22,100	26,900	18,300	5,220	10,300	10,200	380	3,360
17	34,000	20,000	25,600	36,500	23,500	28,200	13,800	3,350	7,350	10,300	250	3,310
18	34,300	19,800	25,400	35,500	22,800	27,200	12,600	1,850	5,450	5,700	200	1,830
19	36,000	19,400	25,400	35,200	22,200	27,000	9,780	570	3,690	10,000	170	3,350
20	35,800	19,800	25,200	35,000	22,500	27,200	9,010	250	2,580	28,200	2,850	8,300
21	36,000	22,700	27,300	35,100	23,400	28,000	7,260	160	2,170	---	---	---
22	36,200	24,400	28,300	36,300	24,300	29,000	4,650	140	1,420	---	---	---
23	34,600	22,500	27,500	36,400	25,000	29,600	10,300	400	2,840	---	---	---
24	32,000	21,000	25,700	35,200	23,800	28,500	13,500	2,050	5,060	29,100	8,190	14,000
25	32,400	20,600	26,100	35,000	21,800	27,400	15,900	3,090	6,900	---	---	---
26	34,300	22,400	26,900	36,400	22,900	28,600	22,600	3,820	9,280	27,900	11,700	18,400
27	34,700	22,100	27,400	37,400	24,500	30,100	23,200	6,920	12,200	29,300	12,900	20,800
28	36,000	22,100	27,400	38,200	25,400	30,600	24,900	8,520	14,600	29,100	16,200	21,900
29	36,100	20,300	27,100	37,500	22,600	29,700	28,100	10,500	16,900	27,200	12,200	18,300
30	36,300	21,100	27,700	38,700	22,900	29,300	27,200	9,040	16,500	28,800	11,500	18,100
31	---	---	---	38,900	24,300	30,800	20,600	6,220	12,200	---	---	---
MONTH	38,800	19,400	27,200	38,900	18,500	27,200	39,000	140	16,300	---	---	---

## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS, TOP  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	28,400	11,200	17,600	33,700	20,300	25,700	26,900	12,400	17,000	---	---	---
2	25,400	10,300	15,400	34,000	19,800	25,400	---	---	---	---	---	---
3	21,800	7,610	11,900	31,200	20,900	24,400	---	---	---	---	---	---
4	20,000	6,340	10,700	33,300	20,500	26,200	---	---	---	---	---	---
5	15,900	6,370	9,230	33,500	20,900	24,800	---	---	---	---	---	---
6	23,000	6,430	10,100	33,000	22,000	26,200	---	---	---	---	---	---
7	26,000	8,200	12,000	33,200	23,600	27,500	---	---	---	---	---	---
8	29,300	10,000	16,200	34,300	25,300	28,400	---	---	---	---	---	---
9	31,600	12,800	20,900	37,600	25,000	30,800	---	---	---	---	---	---
10	32,400	19,000	25,000	37,800	27,700	37,900	---	---	---	---	---	---
11	34,100	22,800	27,700	39,000	28,800	33,700	---	---	---	---	---	---
12	36,100	26,000	30,000	40,000	29,100	34,500	---	---	---	---	---	---
13	36,900	26,400	31,300	38,900	27,200	32,500	---	---	---	---	---	---
14	37,100	26,700	31,000	40,100	26,100	32,700	---	---	---	---	---	---
15	38,200	25,800	30,600	40,000	27,300	33,000	---	---	---	---	---	---
16	36,300	23,300	28,400	39,700	25,600	31,700	---	---	---	---	---	---
17	34,600	20,000	25,700	37,600	23,500	29,500	---	---	---	---	---	---
18	33,800	17,600	24,500	35,600	20,200	26,500	---	---	---	---	---	---
19	32,200	18,200	24,100	33,300	17,900	24,300	---	---	---	---	---	---
20	31,300	16,600	22,400	32,500	16,700	22,600	---	---	---	---	---	---
21	35,200	17,300	24,300	29,900	15,300	21,400	---	---	---	---	---	---
22	36,800	21,100	27,500	31,500	16,300	22,600	---	---	---	---	---	---
23	36,700	24,100	30,400	32,500	16,800	23,700	---	---	---	---	---	---
24	37,500	27,200	32,200	32,700	17,700	24,700	---	---	---	---	---	---
25	38,000	28,200	32,600	33,200	19,100	23,700	---	---	---	---	---	---
26	38,100	27,600	32,400	30,900	14,900	21,100	---	---	---	---	---	---
27	38,000	26,900	31,800	31,900	14,100	21,900	---	---	---	---	---	---
28	37,400	25,700	30,500	29,500	15,600	20,400	---	---	---	---	---	---
29	37,000	24,400	30,200	27,700	12,000	17,900	---	---	---	---	---	---
30	36,800	23,700	29,200	28,200	11,900	17,800	---	---	---	---	---	---
31	34,800	23,100	27,600	---	---	---	---	---	---	---	---	---
MONTH	38,200	6,340	24,300	40,100	11,900	26,300	---	---	---	---	---	---



## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS, BOTTOM—CONTINUED  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	38,800	23,100	29,700	38,900	22,400	29,500	40,600	25,500	33,000	25,500	4,770	13,200
2	39,800	23,500	30,200	39,400	21,600	29,500	40,700	24,900	32,400	23,900	3,760	11,300
3	40,400	22,400	30,300	38,200	13,200	25,800	41,400	22,200	31,100	24,100	3,690	11,600
4	40,800	24,000	30,800	37,600	16,700	27,100	40,400	23,200	30,400	22,200	3,030	10,700
5	41,000	24,000	31,400	39,500	20,100	28,600	39,000	22,500	29,800	25,800	2,520	12,100
6	42,200	25,600	32,500	38,600	20,700	28,500	37,300	19,400	28,000	27,100	2,800	14,500
7	42,400	25,400	32,600	38,500	21,900	28,800	39,100	19,800	29,800	30,900	5,320	17,500
8	41,400	24,400	31,700	36,800	21,900	29,000	37,300	20,600	29,500	23,600	6,100	12,300
9	38,800	23,100	30,400	37,700	21,700	29,200	36,000	20,200	28,400	15,500	3,930	8,600
10	37,900	22,200	30,100	37,800	21,100	29,000	36,900	19,600	29,200	19,700	2,670	8,320
11	36,500	21,800	29,400	38,200	20,400	29,200	37,600	21,500	29,600	23,600	2,700	10,100
12	---	---	---	38,700	20,400	29,800	36,600	21,800	28,400	25,800	2,990	11,500
13	---	---	---	37,400	21,700	29,400	32,900	21,000	26,400	25,400	3,850	11,700
14	---	---	---	37,800	22,400	28,700	31,000	19,500	24,800	24,600	4,250	11,000
15	---	---	---	38,700	22,700	29,300	27,200	10,300	18,500	19,700	2,490	8,110
16	36,100	22,200	28,100	38,800	23,600	30,000	24,000	6,030	13,500	15,200	530	5,550
17	37,100	21,700	28,100	37,800	24,800	30,600	21,700	3,750	10,300	16,100	300	5,320
18	37,900	20,900	28,400	37,900	23,500	29,400	20,800	2,130	8,150	12,100	220	3,670
19	39,300	21,200	29,500	38,600	24,100	30,400	17,100	860	5,790	21,900	190	7,000
20	40,400	20,800	31,300	38,800	24,100	30,500	27,800	240	4,660	33,900	3,000	17,500
21	40,700	24,300	31,600	38,500	25,100	31,300	14,100	210	3,770	---	---	---
22	39,300	23,900	30,500	38,600	25,900	31,900	11,600	100	2,760	---	---	---
23	36,500	23,800	29,200	38,900	26,200	32,300	22,000	590	6,470	29,500	9,860	19,100
24	35,900	22,500	28,900	38,300	25,300	31,200	22,800	2,350	9,760	32,600	10,000	20,800
25	36,500	22,400	29,400	38,800	24,000	31,300	25,300	3,520	12,300	---	---	---
26	36,700	22,700	29,200	39,500	24,400	32,100	28,500	5,250	15,400	32,600	13,600	23,000
27	38,700	23,100	30,700	39,600	25,700	32,400	29,300	7,690	16,700	32,900	15,700	23,800
28	38,000	22,900	30,000	39,700	26,200	32,100	30,000	9,370	18,500	31,900	17,300	23,700
29	38,500	22,100	29,400	39,600	24,100	31,300	29,300	11,000	19,300	30,800	13,400	21,300
30	38,800	22,300	30,000	40,500	23,600	31,300	27,000	10,100	17,900	33,000	12,800	22,300
31	---	---	---	40,900	25,700	32,500	25,900	7,470	15,000	---	---	---
MONTH	---	---	---	40,900	13,200	30,100	41,400	100	19,700	---	---	---

## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS, BOTTOM  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	33,600	12,800	21,800	38,100	23,600	31,300	32,800	14,300	23,100	---	---	---
2	31,600	11,000	19,400	38,500	24,000	32,400	---	---	---	---	---	---
3	30,000	7,870	17,200	38,000	25,100	32,500	---	---	---	---	---	---
4	29,700	7,180	17,500	40,400	25,900	34,700	---	---	---	---	---	---
5	32,400	7,180	19,200	38,100	26,300	33,000	---	---	---	---	---	---
6	37,000	7,470	26,900	38,000	26,300	33,400	---	---	---	---	---	---
7	40,300	21,400	32,800	37,100	26,700	32,700	---	---	---	---	---	---
8	42,300	27,400	36,900	37,600	26,700	32,100	---	---	---	---	---	---
9	41,400	25,700	35,000	39,500	27,100	34,300	---	---	---	---	---	---
10	37,200	23,600	31,900	39,900	28,500	35,300	---	---	---	---	---	---
11	36,800	24,200	30,500	40,700	30,100	35,700	---	---	---	---	---	---
12	37,600	26,200	31,800	41,700	30,700	36,300	---	---	---	---	---	---
13	38,600	27,300	32,700	41,000	28,300	34,500	---	---	---	---	---	---
14	38,600	27,400	32,400	44,900	27,500	35,500	---	---	---	---	---	---
15	39,800	26,800	32,500	41,400	28,500	35,400	---	---	---	---	---	---
16	38,700	24,500	30,800	41,700	28,200	34,600	---	---	---	---	---	---
17	37,900	21,300	28,900	40,800	26,000	32,800	---	---	---	---	---	---
18	38,000	20,400	28,900	38,700	22,700	31,000	---	---	---	---	---	---
19	36,500	19,800	28,300	37,400	20,100	29,500	---	---	---	---	---	---
20	37,600	19,100	28,600	36,300	18,500	28,300	---	---	---	---	---	---
21	40,500	21,700	32,500	34,800	17,800	27,200	---	---	---	---	---	---
22	41,400	24,900	34,600	35,700	17,900	28,200	---	---	---	---	---	---
23	40,900	27,100	35,100	36,200	19,800	28,200	---	---	---	---	---	---
24	41,200	29,300	35,600	36,300	19,800	28,200	---	---	---	---	---	---
25	41,200	30,300	35,700	35,500	20,100	26,400	---	---	---	---	---	---
26	41,200	29,900	35,500	34,400	16,700	25,600	---	---	---	---	---	---
27	41,200	28,700	35,100	36,300	16,600	27,500	---	---	---	---	---	---
28	41,200	28,000	34,300	33,900	17,200	25,200	---	---	---	---	---	---
29	40,900	27,500	34,100	33,500	13,800	24,000	---	---	---	---	---	---
30	40,700	26,900	33,400	35,300	15,900	25,800	---	---	---	---	---	---
31	38,800	25,700	32,100	---	---	---	---	---	---	---	---	---
MONTH	42,300	7,180	30,400	44,900	13,800	31,100	---	---	---	---	---	---





## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP—CONTINUED  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.4	13.5	17.1	23.5	13.1	17.0	24.7	15.2	19.6	11.0	2.1	5.4
2	24.3	13.6	17.7	23.6	12.4	16.9	24.8	14.4	19.0	10.2	1.6	4.0
3	24.2	13.2	17.6	22.9	11.3	16.3	24.1	12.4	17.7	9.1	1.5	3.5
4	23.9	13.8	17.8	23.2	11.3	15.9	23.5	13.4	16.9	6.6	1.2	2.8
5	24.6	13.2	17.8	23.3	11.3	15.6	22.8	13.2	16.9	8.0	0.9	2.4
6	24.6	14.6	18.3	21.8	11.1	15.2	20.8	11.3	14.7	5.6	1.4	2.6
7	24.4	14.4	18.4	21.6	12.3	16.0	20.6	10.9	14.7	8.6	1.4	3.3
8	24.1	13.6	17.9	21.9	12.6	16.0	20.4	11.7	14.4	8.6	2.3	4.8
9	22.4	12.9	17.1	21.0	12.3	15.7	18.8	11.0	14.1	6.0	2.1	3.8
10	22.3	12.4	16.5	19.6	11.6	15.1	19.1	10.1	13.7	5.2	1.1	2.3
11	21.4	12.3	15.9	20.1	11.1	14.6	19.2	11.4	14.5	7.8	1.1	2.5
12	20.1	11.7	15.5	19.5	10.9	14.5	20.3	12.4	15.1	6.7	1.3	2.8
13	21.7	12.5	16.3	20.5	12.3	15.2	18.2	12.1	14.7	8.7	1.7	3.6
14	21.4	12.8	16.4	21.5	12.8	15.6	17.4	10.6	13.8	8.7	1.8	3.8
15	21.4	13.0	16.4	21.6	12.8	16.1	13.9	4.8	9.5	7.5	1.1	3.0
16	21.3	12.5	16.0	21.8	13.3	16.5	10.8	2.8	5.8	5.7	0.2	1.8
17	21.3	11.9	15.6	23.0	14.2	17.4	8.0	1.7	4.1	5.8	0.1	1.8
18	21.5	11.8	15.5	22.4	13.8	16.7	7.2	0.9	3.0	3.1	0.08	0.9
19	22.7	11.5	15.5	22.1	13.4	16.6	5.5	0.3	2.0	5.6	0.07	1.8
20	22.6	11.8	15.4	22.0	13.6	16.7	5.0	0.1	1.3	17.4	1.5	4.7
21	22.7	13.7	16.8	22.1	14.2	17.2	4.0	0.06	1.1	---	---	---
22	22.8	14.8	17.4	22.9	14.7	17.9	2.5	0.06	0.7	---	---	---
23	21.7	13.6	16.9	23.0	15.2	18.3	5.8	0.2	1.5	---	---	---
24	19.9	12.6	15.7	22.1	14.4	17.6	7.8	1.0	2.7	18.0	4.5	8.1
25	20.2	12.3	16.0	22.0	13.1	16.8	9.3	1.6	3.8	---	---	---
26	21.5	13.5	16.5	23.0	13.8	17.7	13.6	2.0	5.2	17.2	6.7	10.9
27	21.8	13.3	16.8	23.7	14.9	18.7	14.0	3.8	7.0	18.1	7.4	12.5
28	22.7	13.3	16.8	24.2	15.5	19.0	15.1	4.7	8.5	18.0	9.5	13.2
29	22.8	12.1	16.6	23.7	13.6	18.4	17.3	5.9	10	16.7	7.0	10.9
30	22.9	12.7	17.0	24.6	13.8	18.1	16.7	5.0	9.7	17.8	6.5	10.7
31	---	---	---	24.7	14.7	19.1	12.3	3.4	7.0	---	---	---
MONTH	24.6	11.5	16.7	24.7	10.9	16.7	24.8	0.06	9.8	---	---	---

02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	6.4	10.4	21.1	12.1	15.7	16.5	7.1	10	---	---	---
2	15.5	5.8	9.0	21.3	11.8	15.5	---	---	---	---	---	---
3	13.1	4.2	6.8	19.4	12.5	14.8	---	---	---	---	---	---
4	11.9	3.4	6.1	20.8	12.3	16.1	---	---	---	---	---	---
5	9.3	3.5	5.2	21.0	12.5	15.1	---	---	---	---	---	---
6	13.9	3.5	5.7	20.6	13.2	16.1	---	---	---	---	---	---
7	15.9	4.5	6.9	20.8	14.3	16.9	---	---	---	---	---	---
8	18.1	5.6	9.5	21.5	15.4	17.5	---	---	---	---	---	---
9	19.6	7.3	12.6	23.8	15.2	19.1	---	---	---	---	---	---
10	20.2	11.3	15.2	23.9	17.0	20.6	---	---	---	---	---	---
11	21.4	13.8	17.0	24.8	17.8	21.1	---	---	---	---	---	---
12	22.8	15.9	18.6	25.5	18.0	21.6	---	---	---	---	---	---
13	23.3	16.2	19.5	24.7	16.7	20.3	---	---	---	---	---	---
14	23.5	16.4	19.2	25.6	16.0	20.4	---	---	---	---	---	---
15	24.2	15.8	19.0	25.5	16.8	20.6	---	---	---	---	---	---
16	22.9	14.1	17.5	25.3	15.6	19.7	---	---	---	---	---	---
17	21.7	11.9	15.7	23.8	14.2	18.3	---	---	---	---	---	---
18	21.2	10.3	14.9	22.4	12.1	16.3	---	---	---	---	---	---
19	20.1	10.7	14.7	20.8	10.5	14.8	---	---	---	---	---	---
20	19.4	9.7	13.5	20.3	9.8	13.6	---	---	---	---	---	---
21	22.1	10.2	14.8	18.5	8.9	12.9	---	---	---	---	---	---
22	23.3	12.7	16.9	19.6	9.5	13.6	---	---	---	---	---	---
23	23.2	14.6	18.9	20.3	9.8	14.4	---	---	---	---	---	---
24	23.7	16.7	20.1	20.4	10.4	15.0	---	---	---	---	---	---
25	24.1	17.4	20.4	20.8	11.3	14.4	---	---	---	---	---	---
26	24.2	17.0	20.2	19.2	8.6	12.7	---	---	---	---	---	---
27	24.1	16.5	19.8	19.9	8.1	13.2	---	---	---	---	---	---
28	23.7	15.7	18.9	18.2	9.1	12.2	---	---	---	---	---	---
29	23.4	14.8	18.7	17.0	6.8	10.6	---	---	---	---	---	---
30	23.3	14.4	18.1	17.4	6.8	10.5	---	---	---	---	---	---
31	21.9	14.0	17.0	---	---	---	---	---	---	---	---	---
MONTH	24.2	3.4	14.9	25.6	6.8	16.1	---	---	---	---	---	---



## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM—CONTINUED  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.6	14.0	18.4	24.7	13.5	18.3	25.9	15.5	20.6	15.5	2.5	7.7
2	25.3	14.2	18.7	25.1	13.0	18.3	26.0	15.1	20.2	14.5	2.0	6.5
3	25.8	13.5	18.8	24.2	7.6	15.8	26.5	13.4	19.4	14.6	1.9	6.7
4	26.1	14.6	19.1	23.8	9.8	16.7	25.8	14.0	18.9	13.4	1.6	6.1
5	26.2	14.6	19.6	25.1	12.0	17.7	24.8	13.6	18.5	15.8	1.3	7.0
6	27.1	15.6	20.3	24.5	12.4	17.6	23.6	11.5	17.3	16.6	1.4	8.6
7	27.2	15.5	20.4	24.4	13.2	17.8	24.9	11.8	18.5	19.2	2.9	10.4
8	26.5	14.8	19.8	23.3	13.2	18.0	23.6	12.3	18.3	14.3	3.3	7.1
9	24.6	14.0	18.9	23.9	13.0	18.0	22.7	12.1	17.5	9.0	2.1	4.8
10	24.0	13.4	18.7	23.9	12.7	17.9	23.3	11.7	18.1	11.7	1.4	4.7
11	23.0	13.1	18.2	24.2	12.2	18.1	23.8	12.9	18.3	14.3	1.4	5.8
12	---	---	---	24.6	12.2	18.5	23.1	13.1	17.5	15.8	1.5	6.7
13	---	---	---	23.7	13.0	18.2	20.5	12.6	16.1	15.5	2.0	6.8
14	---	---	---	23.9	13.5	17.7	19.2	11.6	15.1	14.9	2.2	6.3
15	---	---	---	24.6	13.7	18.1	16.7	5.8	11.0	11.7	1.3	4.6
16	22.8	13.4	17.3	24.6	14.3	18.6	14.6	3.3	7.9	8.8	0.2	3.1
17	23.5	13.0	17.3	23.9	15.1	19.0	13.0	2.0	5.9	9.4	0.1	2.9
18	24.0	12.5	17.5	24.0	14.2	18.2	12.5	1.1	4.6	6.9	0.09	2.0
19	25.0	12.7	18.3	24.5	14.6	18.9	10.0	0.4	3.2	13.2	0.08	4.0
20	25.8	12.5	19.5	24.6	14.6	19.0	17.1	0.10	2.6	21.2	1.5	10.5
21	26.0	14.7	19.7	24.4	15.3	19.5	8.1	0.09	2.0	---	---	---
22	25.0	14.5	18.9	24.5	15.8	19.9	6.6	0.04	1.5	---	---	---
23	23.0	14.4	18.1	24.7	16.0	20.1	13.2	0.3	3.6	18.2	5.5	11.4
24	22.6	13.6	17.8	24.3	15.4	19.4	13.8	1.2	5.6	20.3	5.6	12.6
25	23.0	13.5	18.2	24.6	14.6	19.5	15.4	1.8	7.2	---	---	---
26	23.2	13.7	18.1	25.1	14.8	20.0	17.6	2.8	9.1	20.3	7.8	14.0
27	24.6	14.0	19.1	25.2	15.7	20.2	18.1	4.2	9.9	20.5	9.1	14.5
28	24.1	13.8	18.6	25.3	16.0	20.0	18.6	5.2	11.0	19.9	10.2	14.4
29	24.4	13.3	18.2	25.2	14.6	19.5	18.1	6.2	11.5	19.1	7.7	12.8
30	24.6	13.4	18.6	25.8	14.3	19.5	16.6	5.7	10.6	20.6	7.3	13.5
31	---	---	---	26.1	15.7	20.3	15.8	4.1	8.8	---	---	---
MONTH	---	---	---	26.1	7.6	18.7	26.5	0.04	11.9	---	---	---

02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	7.3	13.2	24.2	14.3	19.5	20.5	8.3	14.0	---	---	---
2	19.6	6.2	11.6	24.4	14.6	20.3	---	---	---	---	---	---
3	18.6	4.3	10.2	24.1	15.3	20.3	---	---	---	---	---	---
4	18.4	3.9	10.4	25.8	15.8	21.8	---	---	---	---	---	---
5	20.2	3.9	11.5	24.2	16.1	20.7	---	---	---	---	---	---
6	23.4	4.1	16.6	24.1	16.1	20.9	---	---	---	---	---	---
7	25.7	12.8	20.5	23.5	16.4	20.4	---	---	---	---	---	---
8	27.1	16.8	23.3	23.8	16.4	20.0	---	---	---	---	---	---
9	26.5	15.7	22.0	25.1	16.6	21.5	---	---	---	---	---	---
10	23.5	14.3	19.9	25.4	17.6	22.2	---	---	---	---	---	---
11	23.3	14.7	18.9	26.0	18.6	22.5	---	---	---	---	---	---
12	23.8	16.0	19.8	26.7	19.0	22.9	---	---	---	---	---	---
13	24.5	16.8	20.4	26.2	17.4	21.6	---	---	---	---	---	---
14	24.5	16.8	20.3	29.0	16.9	22.4	---	---	---	---	---	---
15	25.3	16.4	20.3	26.5	17.6	22.3	---	---	---	---	---	---
16	24.6	14.9	19.1	26.7	17.4	21.8	---	---	---	---	---	---
17	24.0	12.8	17.9	26.1	15.9	20.5	---	---	---	---	---	---
18	24.1	12.2	17.9	24.6	13.7	19.3	---	---	---	---	---	---
19	23.0	11.8	17.4	23.7	12.0	18.3	---	---	---	---	---	---
20	23.8	11.3	17.7	22.9	10.9	17.4	---	---	---	---	---	---
21	25.8	13.0	20.3	21.9	10.5	16.7	---	---	---	---	---	---
22	26.5	15.1	21.8	22.5	10.5	17.4	---	---	---	---	---	---
23	26.1	16.6	22.1	22.8	11.8	17.4	---	---	---	---	---	---
24	26.3	18.1	22.4	22.9	11.8	17.4	---	---	---	---	---	---
25	26.3	18.8	22.5	22.4	12.0	16.2	---	---	---	---	---	---
26	26.3	18.5	22.4	21.6	9.8	15.7	---	---	---	---	---	---
27	26.3	17.7	22.1	22.9	9.7	16.9	---	---	---	---	---	---
28	26.3	17.2	21.5	21.2	10.1	15.4	---	---	---	---	---	---
29	26.1	16.9	21.4	21.0	8.0	14.6	---	---	---	---	---	---
30	26.0	16.5	20.9	22.2	9.3	15.8	---	---	---	---	---	---
31	24.6	15.7	20.0	---	---	---	---	---	---	---	---	---
MONTH	27.1	3.9	18.9	29.0	8.0	19.3	---	---	---	---	---	---



## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP—CONTINUED  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.0	7.5	7.7	7.9	7.5	7.7	7.8	7.5	7.7	7.3	6.7	6.9
2	8.3	7.4	7.8	7.9	7.4	7.6	7.8	7.4	7.6	7.2	6.7	6.8
3	8.2	7.6	7.9	7.9	7.4	7.6	7.8	7.3	7.6	7.1	6.7	6.8
4	8.1	7.6	7.9	7.8	7.3	7.5	7.8	7.3	7.6	7.0	6.6	6.7
5	8.1	7.6	7.9	7.8	7.3	7.6	7.9	7.3	7.6	7.0	6.5	6.7
6	8.1	7.6	7.9	7.9	7.3	7.6	7.8	7.3	7.5	6.9	6.5	6.7
7	8.2	7.6	7.9	8.2	7.2	7.7	8.0	7.3	7.6	7.0	6.6	6.7
8	8.3	7.5	7.9	8.0	7.4	7.7	8.0	7.3	7.6	7.3	6.8	7.0
9	8.3	7.6	7.9	8.0	7.3	7.7	8.2	7.2	7.6	7.2	6.8	7.0
10	8.2	7.5	7.9	8.0	7.2	7.6	8.2	7.2	7.6	6.9	6.5	6.7
11	8.2	7.5	7.9	7.8	7.2	7.6	8.1	7.3	7.7	6.9	6.6	6.7
12	8.2	7.4	7.8	7.7	7.2	7.5	7.9	7.4	7.7	6.9	6.6	6.7
13	8.0	7.4	7.7	7.8	7.3	7.5	7.8	7.4	7.6	7.0	6.4	6.7
14	8.0	7.4	7.7	8.0	7.3	7.6	7.7	7.3	7.5	7.0	6.4	6.6
15	8.3	7.5	7.9	8.0	7.4	7.7	7.5	7.0	7.3	6.9	6.5	6.6
16	8.3	7.7	8.0	8.1	7.4	7.8	7.2	6.9	7.1	6.8	6.4	6.6
17	8.2	7.6	7.9	8.1	7.4	7.7	7.1	6.8	6.9	6.9	6.4	6.7
18	8.2	7.7	8.0	7.9	7.4	7.6	7.0	6.6	6.8	6.9	6.5	6.7
19	8.3	7.8	8.0	7.9	7.3	7.6	7.0	6.6	6.7	7.2	6.4	6.7
20	8.3	7.7	8.0	8.1	7.3	7.7	6.9	6.4	6.7	7.8	6.6	7.0
21	8.3	7.7	8.0	8.0	7.3	7.7	6.9	6.3	6.6	---	---	---
22	8.4	7.8	8.1	8.1	7.4	7.7	6.8	6.2	6.4	---	---	---
23	8.3	7.7	8.0	8.1	7.4	7.7	6.8	6.3	6.5	---	---	---
24	8.3	7.6	7.9	7.9	7.3	7.6	6.9	6.3	6.5	7.7	6.8	7.1
25	8.2	7.5	8.0	7.9	7.2	7.5	7.0	6.3	6.6	---	---	---
26	8.2	7.7	8.0	7.8	7.3	7.5	7.3	6.4	6.7	7.7	7.0	7.3
27	8.1	7.6	7.9	7.8	7.3	7.6	7.3	6.6	6.8	7.8	7.2	7.5
28	8.0	7.5	7.8	7.9	7.5	7.6	7.3	6.7	6.9	7.8	7.4	7.6
29	8.0	7.4	7.7	7.8	7.4	7.6	7.6	6.8	7.1	7.7	7.1	7.4
30	8.0	7.5	7.7	7.8	7.4	7.6	7.6	7.0	7.3	7.7	7.1	7.3
31	---	---	---	7.8	7.4	7.6	7.4	6.8	7.0	---	---	---
MONTH	8.4	7.4	7.9	8.2	7.2	7.6	8.2	6.2	7.2	---	---	---

02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.7	7.0	7.3	7.8	7.4	7.6	7.6	7.1	7.3	---	---	---
2	7.6	6.9	7.2	7.8	7.3	7.6	---	---	---	---	---	---
3	7.4	6.9	7.0	7.8	7.4	7.6	---	---	---	---	---	---
4	7.3	6.9	7.0	7.9	7.4	7.7	---	---	---	---	---	---
5	7.2	6.9	7.0	7.9	7.5	7.7	---	---	---	---	---	---
6	7.6	6.9	7.1	7.9	7.5	7.7	---	---	---	---	---	---
7	7.7	6.9	7.1	7.9	7.5	7.7	---	---	---	---	---	---
8	7.8	7.0	7.3	7.9	7.6	7.7	---	---	---	---	---	---
9	7.8	7.2	7.5	8.0	7.6	7.8	---	---	---	---	---	---
10	7.9	7.3	7.6	8.2	7.7	7.9	---	---	---	---	---	---
11	7.9	7.4	7.6	8.0	7.7	7.9	---	---	---	---	---	---
12	7.9	7.5	7.7	8.0	7.7	7.9	---	---	---	---	---	---
13	7.9	7.5	7.7	7.9	7.6	7.7	---	---	---	---	---	---
14	7.9	7.5	7.7	7.9	7.6	7.8	---	---	---	---	---	---
15	7.9	7.5	7.7	7.9	7.6	7.8	---	---	---	---	---	---
16	7.9	7.4	7.6	7.9	7.6	7.8	---	---	---	---	---	---
17	7.8	7.3	7.5	7.9	7.5	7.7	---	---	---	---	---	---
18	7.8	7.2	7.5	7.8	7.4	7.6	---	---	---	---	---	---
19	7.8	7.3	7.6	7.8	7.3	7.5	---	---	---	---	---	---
20	7.8	7.2	7.5	7.7	7.2	7.4	---	---	---	---	---	---
21	7.9	7.3	7.6	7.6	7.2	7.4	---	---	---	---	---	---
22	7.9	7.4	7.7	7.6	7.2	7.4	---	---	---	---	---	---
23	7.9	7.6	7.8	7.7	7.2	7.5	---	---	---	---	---	---
24	7.9	7.6	7.8	7.7	7.3	7.5	---	---	---	---	---	---
25	7.9	7.6	7.8	7.7	7.3	7.5	---	---	---	---	---	---
26	7.9	7.6	7.7	7.7	7.2	7.4	---	---	---	---	---	---
27	7.9	7.5	7.7	7.6	7.2	7.4	---	---	---	---	---	---
28	7.9	7.5	7.7	7.6	7.2	7.4	---	---	---	---	---	---
29	7.9	7.4	7.7	7.6	7.1	7.3	---	---	---	---	---	---
30	7.8	7.4	7.6	7.5	7.0	7.3	---	---	---	---	---	---
31	7.8	7.4	7.6	---	---	---	---	---	---	---	---	---
MONTH	7.9	6.9	7.5	8.2	7.0	7.6	---	---	---	---	---	---





## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM—CONTINUED  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.8	7.3	7.6	8.0	7.5	7.8	7.9	7.5	7.7	7.5	6.6	7.0
2	8.0	7.4	7.7	7.9	7.4	7.7	8.0	7.5	7.8	7.4	6.6	6.9
3	8.0	7.5	7.8	7.9	7.3	7.6	8.0	7.5	7.8	7.5	6.6	7.0
4	7.9	7.5	7.7	7.8	7.3	7.6	8.0	7.5	7.7	7.4	6.4	6.9
5	7.9	7.6	7.7	7.8	7.3	7.6	7.9	7.4	7.7	7.4	6.4	6.9
6	8.0	7.5	7.8	7.8	7.3	7.6	7.9	7.3	7.6	7.4	6.5	6.9
7	8.0	7.6	7.8	8.0	7.3	7.7	7.9	7.4	7.7	7.6	6.6	7.0
8	7.9	7.4	7.7	8.0	7.5	7.8	7.9	7.4	7.7	7.4	6.8	7.0
9	7.8	7.3	7.6	8.0	7.4	7.8	7.9	7.4	7.7	7.2	6.6	7.0
10	7.9	7.3	7.7	8.0	7.4	7.8	8.0	7.3	7.7	7.2	6.4	6.7
11	8.0	7.3	7.7	8.0	7.4	7.7	8.0	7.4	7.8	7.3	6.4	6.7
12	7.9	7.3	7.7	8.0	7.4	7.7	8.0	7.5	7.8	7.3	6.5	6.8
13	8.0	7.5	7.8	8.0	7.5	7.7	7.9	7.4	7.7	7.6	6.5	6.9
14	8.0	7.5	7.8	7.9	7.4	7.7	7.8	7.4	7.6	7.5	6.6	6.9
15	8.0	7.6	7.8	8.0	7.5	7.7	7.6	7.1	7.4	7.3	6.6	6.8
16	8.1	7.7	7.9	8.0	7.6	7.8	7.5	6.9	7.2	7.1	6.6	6.7
17	8.0	7.6	7.9	8.0	7.5	7.8	7.4	6.7	7.0	7.2	6.6	6.8
18	8.0	7.6	7.9	7.9	7.5	7.7	7.3	6.6	6.9	7.2	6.7	6.9
19	8.0	7.6	7.9	7.9	7.4	7.7	7.2	6.4	6.8	7.6	6.6	7.0
20	8.1	7.6	7.9	7.9	7.5	7.7	7.1	6.1	6.7	8.0	6.8	7.4
21	8.1	7.7	7.9	7.9	7.4	7.8	7.1	6.0	6.5	---	---	---
22	8.2	7.7	8.0	7.9	7.5	7.8	7.0	5.7	6.3	---	---	---
23	8.3	7.8	8.0	7.9	7.5	7.8	7.4	6.1	6.6	7.5	6.6	7.0
24	8.2	7.7	8.0	7.8	7.4	7.7	7.3	6.3	6.7	7.6	6.7	7.1
25	8.3	7.7	8.0	7.8	7.3	7.6	7.5	6.4	6.8	---	---	---
26	8.2	7.7	8.0	7.8	7.3	7.6	7.7	6.6	7.0	7.6	6.9	7.3
27	8.0	7.6	7.9	7.8	7.3	7.6	7.6	6.6	7.1	7.6	7.0	7.4
28	7.9	7.5	7.7	7.8	7.4	7.6	7.6	6.7	7.1	7.6	7.2	7.4
29	7.8	7.3	7.7	7.8	7.3	7.6	7.6	6.8	7.2	7.7	7.1	7.4
30	8.0	7.4	7.7	7.8	7.3	7.6	7.6	7.0	7.3	7.8	7.1	7.5
31	---	---	---	7.9	7.4	7.6	7.5	6.8	7.2	---	---	---
MONTH	8.3	7.3	7.8	8.0	7.3	7.7	8.0	5.7	7.3	---	---	---

02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.8	7.0	7.4	8.0	7.6	7.8	7.6	7.1	7.4	---	---	---
2	7.7	6.9	7.3	7.9	7.6	7.8	---	---	---	---	---	---
3	7.6	6.8	7.2	7.9	7.5	7.7	---	---	---	---	---	---
4	7.6	6.8	7.2	7.9	7.6	7.8	---	---	---	---	---	---
5	7.7	6.8	7.2	7.8	7.5	7.7	---	---	---	---	---	---
6	7.8	6.9	7.5	7.8	7.5	7.7	---	---	---	---	---	---
7	7.8	7.2	7.6	7.8	7.5	7.7	---	---	---	---	---	---
8	7.8	7.5	7.7	7.8	7.5	7.7	---	---	---	---	---	---
9	7.8	7.6	7.7	8.1	7.5	7.9	---	---	---	---	---	---
10	7.8	7.4	7.7	8.1	7.8	8.0	---	---	---	---	---	---
11	7.8	7.4	7.6	8.1	7.8	8.0	---	---	---	---	---	---
12	7.8	7.4	7.6	8.0	7.7	7.9	---	---	---	---	---	---
13	7.8	7.4	7.6	8.0	7.7	7.8	---	---	---	---	---	---
14	7.7	7.4	7.6	8.1	7.7	7.9	---	---	---	---	---	---
15	7.8	7.3	7.6	8.0	7.8	7.9	---	---	---	---	---	---
16	7.8	7.4	7.6	8.0	7.6	7.9	---	---	---	---	---	---
17	7.8	7.3	7.5	7.9	7.6	7.7	---	---	---	---	---	---
18	7.8	7.2	7.5	7.9	7.5	7.7	---	---	---	---	---	---
19	7.7	7.3	7.5	7.8	7.4	7.7	---	---	---	---	---	---
20	8.0	7.2	7.7	7.8	7.4	7.7	---	---	---	---	---	---
21	8.1	7.5	7.9	7.8	7.3	7.6	---	---	---	---	---	---
22	8.1	7.7	8.0	7.8	7.3	7.6	---	---	---	---	---	---
23	8.2	7.8	8.0	7.8	7.3	7.6	---	---	---	---	---	---
24	8.1	7.8	8.0	7.8	7.3	7.6	---	---	---	---	---	---
25	8.1	7.8	7.9	7.7	7.3	7.5	---	---	---	---	---	---
26	8.1	7.7	7.9	7.7	7.2	7.5	---	---	---	---	---	---
27	8.1	7.7	7.9	7.7	7.2	7.5	---	---	---	---	---	---
28	8.0	7.6	7.8	7.6	7.3	7.5	---	---	---	---	---	---
29	8.0	7.6	7.8	7.7	7.2	7.5	---	---	---	---	---	---
30	8.0	7.6	7.8	7.7	7.2	7.5	---	---	---	---	---	---
31	8.0	7.6	7.8	---	---	---	---	---	---	---	---	---
MONTH	8.2	6.8	7.6	8.1	7.2	7.7	---	---	---	---	---	---

## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	14.4	13.0	13.8	9.2	7.8	8.5
2	---	---	---	---	---	---	14.0	12.7	13.2	9.3	8.1	8.7
3	---	---	---	---	---	---	13.4	11.6	12.5	10.2	8.4	9.3
4	---	---	---	---	---	---	12.6	11.3	11.9	10.8	9.5	10.1
5	---	---	---	---	---	---	12.3	11.7	12.0	12.8	9.8	11.2
6	---	---	---	---	---	---	12.1	11.0	11.7	12.5	10.6	11.6
7	---	---	---	---	---	---	11.6	10.4	11.1	11.4	8.7	10.0
8	---	---	---	20.6	18.6	19.7	11.3	10.5	10.9	10.4	8.8	9.7
9	---	---	---	18.8	16.8	18.1	11.5	10.5	10.9	10.2	8.9	9.7
10	---	---	---	18.0	16.5	17.3	12.5	10.9	11.5	9.3	7.3	8.6
11	---	---	---	18.5	17.0	17.6	12.0	11.0	11.5	7.7	6.2	7.3
12	---	---	---	18.8	17.6	18.0	11.4	10.5	10.9	8.1	6.6	7.4
13	---	---	---	18.2	17.0	17.9	11.1	10.0	10.4	8.5	7.4	7.8
14	---	---	---	17.2	15.6	16.2	11.0	9.8	10.2	8.6	7.5	7.9
15	---	---	---	16.5	14.7	15.8	10.2	8.9	9.4	8.7	7.8	8.2
16	---	---	---	17.1	15.3	16.3	10.0	8.6	9.2	8.4	7.3	7.9
17	---	---	---	17.6	16.3	16.8	10.0	8.9	9.5	8.2	7.1	7.8
18	---	---	---	17.7	16.7	17.0	9.8	8.2	8.9	10.1	7.8	8.7
19	---	---	---	18.1	17.1	17.5	9.3	7.9	8.5	9.6	8.4	9.0
20	---	---	---	17.5	16.2	16.9	8.7	7.2	7.9	8.8	7.3	8.1
21	---	---	---	17.4	16.0	16.8	8.2	6.6	7.3	8.1	7.4	7.8
22	---	---	---	17.2	16.3	16.7	7.9	6.8	7.3	8.2	7.5	7.8
23	---	---	---	17.2	16.2	16.7	8.1	6.7	7.4	8.1	7.3	7.7
24	---	---	---	17.5	16.1	16.8	8.7	7.1	8.0	8.2	7.1	7.6
25	---	---	---	17.4	16.1	16.5	8.8	7.5	8.0	8.0	6.7	7.3
26	---	---	---	16.9	15.6	16.1	8.7	7.2	7.8	7.5	6.2	6.6
27	---	---	---	16.7	15.7	16.2	8.6	7.2	7.8	6.8	6.0	6.3
28	---	---	---	17.4	15.9	16.6	8.7	7.0	7.8	6.5	5.6	6.0
29	---	---	---	16.8	13.3	15.1	8.5	7.3	7.9	6.7	5.2	5.9
30	---	---	---	15.0	13.2	14.1	9.0	7.9	8.4	6.6	5.8	6.2
31	---	---	---	---	---	---	9.3	7.6	8.4	6.4	5.5	5.9
MONTH	---	---	---	---	---	---	14.4	6.6	9.7	12.8	5.2	8.1
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.3	5.0	5.5	10.3	8.4	9.1	---	---	---	22.3	21.0	21.5
2	6.3	4.9	5.7	11.4	9.0	10	15.4	14.4	15.0	22.6	20.8	21.6
3	8.0	6.2	7.0	11.4	9.9	10.4	15.6	13.8	14.8	22.1	21.3	21.8
4	8.0	6.8	7.2	12.7	9.8	10.8	15.9	14.6	15.2	21.9	20.4	21.2
5	7.9	6.7	7.3	12.7	10.6	11.6	15.1	13.8	14.7	21.8	20.2	21.2
6	9.0	7.0	7.9	14.6	11.8	13.0	15.2	13.9	14.6	22.4	20.9	21.6
7	9.9	8.6	9.2	14.3	13.2	13.7	16.4	14.2	15.1	23.6	21.6	22.2
8	9.0	7.8	8.4	13.9	12.9	13.6	16.8	15.3	15.9	24.0	22.0	22.6
9	8.6	7.8	8.1	13.7	12.2	13.2	17.9	15.9	16.6	24.1	22.0	22.8
10	8.6	8.0	8.2	13.4	11.9	12.8	18.3	16.5	17.2	24.4	22.4	23.2
11	8.6	8.0	8.3	13.2	11.1	12.2	18.8	17.3	17.9	24.4	22.6	23.3
12	8.6	7.7	8.1	13.7	11.7	12.6	18.6	17.9	18.2	24.7	22.9	23.7
13	8.5	7.4	7.9	13.6	12.2	12.9	19.0	18.1	18.5	24.9	23.5	24.0
14	8.2	7.8	8.0	14.0	12.1	12.9	18.4	17.0	17.7	25.4	23.6	24.3
15	8.2	7.7	8.0	14.5	12.7	13.5	17.6	15.8	17.0	25.3	24.0	24.5
16	7.9	7.1	7.7	14.5	13.5	14.0	18.6	16.6	17.6	25.7	24.2	24.7
17	7.8	6.9	7.3	14.5	13.4	14.0	19.4	17.4	18.2	26.2	24.5	25.1
18	7.5	6.7	7.2	14.7	13.3	14.0	20.0	18.1	18.8	25.5	24.7	25.0
19	8.3	6.8	7.5	15.5	13.9	14.5	20.2	18.6	19.2	25.8	24.4	25.1
20	9.0	7.6	8.1	15.0	13.8	14.4	20.9	18.9	19.6	26.3	24.8	25.4
21	9.9	8.2	8.8	15.5	14.5	14.9	20.8	19.5	20.0	27.0	25.1	25.9
22	9.7	8.8	9.2	14.5	12.9	14.0	21.5	19.8	20.5	27.5	25.5	26.2
23	9.9	8.9	9.3	14.5	13.0	13.6	22.2	20.3	21.1	27.3	25.8	26.4
24	9.7	9.3	9.5	---	---	---	23.4	20.9	21.8	27.4	26.0	26.5
25	9.8	9.2	9.4	---	---	---	24.1	21.3	22.1	28.0	26.0	26.7
26	9.3	8.2	8.7	---	---	---	23.1	21.7	22.4	28.0	26.1	27.0
27	8.4	7.8	8.1	---	---	---	22.8	21.5	22.0	28.0	26.4	27.1
28	9.1	7.1	7.9	---	---	---	21.6	19.9	21.0	27.8	26.4	27.2
29	9.3	7.9	8.5	---	---	---	22.2	19.9	21.2	28.0	26.8	27.4
30	---	---	---	---	---	---	23.2	20.6	21.7	27.4	26.4	26.9
31	---	---	---	---	---	---	---	---	---	27.3	26.2	26.8
MONTH	9.9	4.9	8.0	---	---	---	---	---	---	28.0	20.2	24.5

## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP—CONTINUED  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	27.8	26.3	26.9	29.0	27.8	28.4	29.8	28.8	29.3	27.5	26.8	27.1
2	27.9	26.6	27.2	28.6	28.0	28.4	30.2	29.0	29.4	27.1	26.4	26.7
3	28.2	26.6	27.4	29.0	27.8	28.3	29.5	28.5	29.1	26.8	25.8	26.3
4	27.6	26.5	27.2	29.4	27.8	28.3	31.2	28.8	29.4	27.1	25.8	26.3
5	27.8	26.4	27.1	29.8	27.9	28.8	30.6	29.0	29.7	27.0	25.4	26.0
6	27.7	26.8	27.2	30.3	28.6	29.3	29.6	28.1	28.8	26.1	25.4	25.7
7	28.0	26.6	27.3	30.8	29.0	29.7	28.6	26.4	27.5	25.9	25.2	25.5
8	28.6	27.0	27.6	30.1	29.3	29.7	28.6	26.5	27.8	26.5	25.4	25.8
9	28.8	27.2	27.9	30.0	28.6	29.5	28.6	27.1	28.0	27.0	25.8	26.2
10	28.6	27.3	28.0	30.8	28.9	29.8	29.0	27.2	28.1	26.9	25.8	26.3
11	28.8	27.5	28.2	30.7	29.5	30.0	29.1	27.6	28.2	26.2	25.3	25.8
12	28.6	27.4	28.1	29.8	29.1	29.5	28.5	27.6	28.0	26.1	25.1	25.5
13	27.8	26.5	27.3	30.1	28.9	29.3	27.7	26.9	27.4	25.6	24.9	25.2
14	27.7	26.5	27.2	30.8	29.0	29.7	27.2	26.4	26.8	25.0	24.4	24.7
15	28.3	26.7	27.5	30.6	29.5	30.0	26.7	26.0	26.4	25.4	24.3	24.6
16	28.4	27.1	27.7	30.6	29.1	29.9	26.9	25.8	26.2	25.3	24.2	24.7
17	27.8	27.0	27.5	30.2	28.7	29.4	26.7	25.4	26.0	25.8	24.4	25.1
18	28.7	26.8	27.7	29.2	28.2	28.8	26.9	25.1	25.8	25.4	24.2	24.6
19	29.6	27.7	28.5	30.1	28.1	29.0	27.0	25.1	25.9	24.4	23.1	23.8
20	29.0	28.0	28.5	30.6	28.6	29.4	27.2	25.1	26.0	23.6	22.2	23.0
21	28.8	27.4	28.0	30.4	28.8	29.5	27.1	25.1	26.0	---	---	---
22	29.4	27.6	28.3	30.7	29.1	29.6	26.7	25.1	25.7	---	---	---
23	29.6	28.0	28.7	30.2	29.0	29.4	26.6	25.2	25.7	---	---	---
24	29.5	28.3	28.8	30.2	29.0	29.5	26.8	25.3	26.0	24.4	22.9	23.5
25	29.4	28.4	28.9	30.3	28.8	29.3	27.5	25.5	26.3	---	---	---
26	29.0	28.2	28.6	30.0	28.7	29.4	27.2	26.0	26.6	23.8	23.3	23.6
27	28.6	27.8	28.2	30.0	29.0	29.5	27.4	26.4	26.8	24.6	23.3	23.9
28	29.0	27.6	28.3	29.7	28.7	29.2	27.8	26.6	27.1	25.2	24.2	24.6
29	29.9	27.6	28.4	29.2	28.1	28.8	27.5	26.9	27.2	25.3	24.1	24.7
30	28.8	28.1	28.5	29.8	28.4	29.0	27.7	26.5	27.0	25.4	24.4	24.9
31	---	---	---	29.8	28.7	29.2	27.9	26.9	27.3	---	---	---
MONTH	29.9	26.3	27.9	30.8	27.8	29.3	31.2	25.1	27.3	---	---	---

## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25.6	24.4	24.9	22.0	20.0	20.7	15.3	14.5	14.8	---	---	---
2	25.6	24.4	24.9	22.0	20.3	21.0	---	---	---	---	---	---
3	26.0	24.4	25.0	22.2	20.6	21.2	---	---	---	---	---	---
4	25.5	24.2	24.8	21.8	20.6	21.2	---	---	---	---	---	---
5	25.2	23.9	24.5	21.4	19.7	20.5	---	---	---	---	---	---
6	24.6	23.1	23.8	20.7	18.8	19.7	---	---	---	---	---	---
7	24.3	22.3	23.2	20.0	18.1	19.4	---	---	---	---	---	---
8	23.9	22.1	23.1	19.7	18.4	19.4	---	---	---	---	---	---
9	24.0	22.5	23.5	19.2	17.4	18.2	---	---	---	---	---	---
10	24.3	23.0	23.7	17.9	16.3	17.1	---	---	---	---	---	---
11	24.1	23.0	23.7	17.2	16.2	16.8	---	---	---	---	---	---
12	23.6	22.9	23.3	17.3	16.8	17.1	---	---	---	---	---	---
13	24.0	23.2	23.5	17.3	15.7	16.8	---	---	---	---	---	---
14	23.6	22.8	23.3	15.9	14.7	15.5	---	---	---	---	---	---
15	23.1	21.9	22.7	14.9	14.2	14.7	---	---	---	---	---	---
16	22.0	20.9	21.5	14.6	13.9	14.3	---	---	---	---	---	---
17	21.7	20.5	21.1	14.7	13.5	14.1	---	---	---	---	---	---
18	22.4	20.8	21.4	15.0	13.7	14.2	---	---	---	---	---	---
19	22.9	21.4	21.9	15.2	14.2	14.6	---	---	---	---	---	---
20	22.9	21.8	22.2	15.7	14.4	14.9	---	---	---	---	---	---
21	22.2	21.3	21.7	16.0	14.7	15.2	---	---	---	---	---	---
22	21.8	20.5	21.1	16.1	15.1	15.6	---	---	---	---	---	---
23	20.9	19.6	20.4	16.5	15.1	15.8	---	---	---	---	---	---
24	20.3	19.5	20.0	16.6	15.4	16.1	---	---	---	---	---	---
25	19.9	19.3	19.7	17.0	15.7	16.5	---	---	---	---	---	---
26	19.6	19.0	19.4	16.1	14.2	15.2	---	---	---	---	---	---
27	19.6	19.0	19.4	15.2	14.1	14.7	---	---	---	---	---	---
28	19.5	19.2	19.4	15.3	14.8	15.1	---	---	---	---	---	---
29	19.3	19.1	19.2	14.9	14.0	14.6	---	---	---	---	---	---
30	20.3	19.0	19.5	14.9	13.8	14.4	---	---	---	---	---	---
31	21.0	19.6	20.1	---	---	---	---	---	---	---	---	---
MONTH	26.0	19.0	22.1	22.2	13.5	16.8	---	---	---	---	---	---

02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	14.7	13.1	14.0	9.9	7.9	8.9			
2	---	---	---	---	---	---	14.0	12.8	13.4	10.0	8.3	9.2			
3	---	---	---	---	---	---	13.5	12.0	12.8	10.2	8.6	9.5			
4	---	---	---	---	---	---	12.8	11.3	12.2	11.1	9.6	10.4			
5	---	---	---	---	---	---	12.3	11.6	12.0	13.0	10.5	11.6			
6	---	---	---	---	---	---	12.0	11.2	11.7	13.6	11.1	12.1			
7	---	---	---	---	---	---	11.6	10.6	11.2	11.9	9.9	10.8			
8	---	---	---	21.0	19.0	20.0	11.2	10.4	10.9	10.8	9.4	10.2			
9	---	---	---	19.9	17.7	18.7	11.3	10.4	10.9	10.3	9.3	9.8			
10	---	---	---	18.5	16.9	17.6	12.4	10.7	11.4	9.7	8.2	8.9			
11	---	---	---	18.1	17.1	17.6	12.0	11.2	11.5	8.6	6.7	7.6			
12	---	---	---	18.6	17.7	18.0	11.5	10.4	11.0	7.8	6.6	7.5			
13	---	---	---	18.1	17.5	17.9	11.3	10.0	10.7	8.1	7.3	7.7			
14	---	---	---	17.9	15.9	16.9	11.3	9.7	10.5	8.2	7.5	7.9			
15	---	---	---	17.4	15.5	16.6	10.7	8.9	9.7	8.5	7.8	8.1			
16	---	---	---	16.8	15.9	16.5	10.2	8.6	9.4	8.5	7.5	8.0			
17	---	---	---	17.2	16.4	16.8	10.2	8.8	9.5	8.3	7.3	7.9			
18	---	---	---	17.4	16.7	17.0	10.2	8.4	9.1	10.3	7.8	8.7			
19	---	---	---	18.1	17.1	17.5	9.7	7.8	8.6	9.5	8.5	9.1			
20	---	---	---	17.6	16.5	17.1	9.1	7.2	8.0	8.9	7.7	8.3			
21	---	---	---	17.4	16.3	16.9	8.6	6.7	7.5	8.2	7.5	7.9			
22	---	---	---	17.2	16.4	16.8	8.2	6.8	7.4	8.2	7.5	7.9			
23	---	---	---	17.3	16.4	16.8	8.2	6.7	7.4	8.2	7.4	7.8			
24	---	---	---	17.4	16.2	16.8	8.8	7.0	8.0	8.2	7.1	7.7			
25	---	---	---	17.3	16.0	16.5	9.0	7.4	8.1	8.2	6.8	7.4			
26	---	---	---	16.7	15.4	16.1	8.9	7.2	7.9	7.6	6.2	6.9			
27	---	---	---	16.7	15.6	16.2	9.0	7.1	7.9	7.6	6.3	6.7			
28	---	---	---	17.2	15.8	16.5	8.9	7.2	8.0	7.2	6.0	6.5			
29	---	---	---	16.8	13.3	15.2	9.0	7.5	8.2	6.7	5.6	6.4			
30	---	---	---	15.5	12.8	14.4	9.1	8.0	8.6	7.1	6.1	6.6			
31	---	---	---	---	---	---	9.7	7.8	8.8	---	---	---			
MONTH	---	---	---	---	---	---	14.7	6.7	9.9	---	---	---			
DAY	FEBRUARY			MARCH			APRIL			MAY					
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN			
1	---	---	---	9.9	8.2	8.7	15.9	14.5	15.2	22.2	20.7	21.3			
2	---	---	---	11.4	8.8	9.9	15.4	14.4	15.1	22.7	20.8	21.5			
3	---	---	---	11.2	9.7	10.4	15.4	14.1	14.9	22.2	21.4	21.8			
4	---	---	---	12.3	9.8	10.8	16.0	14.7	15.3	21.8	20.4	21.1			
5	---	---	---	12.7	10.7	11.6	15.1	14.2	14.8	21.9	20.3	21.1			
6	---	---	---	14.3	11.9	13.1	15.8	14.0	14.7	22.5	20.8	21.5			
7	---	---	---	14.5	13.2	13.8	16.4	14.3	15.2	23.0	21.4	22.1			
8	---	---	---	13.9	13.0	13.6	16.9	15.3	15.9	23.2	22.0	22.5			
9	---	---	---	13.8	12.0	13.1	17.5	15.9	16.5	23.7	22.1	22.8			
10	---	---	---	13.4	11.7	12.7	18.2	16.5	17.1	23.9	22.4	23.0			
11	8.6	7.9	8.3	12.9	11.1	12.1	18.6	17.3	17.8	24.1	22.7	23.2			
12	8.7	7.8	8.2	13.4	11.5	12.3	18.7	18.0	18.2	24.5	23.0	23.6			
13	8.3	7.5	8.0	13.3	11.8	12.5	19.0	18.2	18.6	24.7	23.5	23.9			
14	8.2	7.7	8.0	13.8	11.8	12.5	18.6	17.2	17.9	24.9	23.7	24.1			
15	8.2	7.6	8.0	14.2	12.0	13.1	17.8	16.4	17.1	24.8	24.1	24.3			
16	8.0	7.3	7.7	14.3	12.7	13.6	18.2	16.8	17.4	25.1	24.2	24.5			
17	7.8	7.1	7.5	14.3	13.1	13.7	19.4	17.3	18.0	25.9	24.4	24.8			
18	7.6	6.7	7.2	14.5	13.1	13.8	19.7	18.0	18.6	25.5	24.6	24.9			
19	8.3	7.0	7.5	15.2	13.6	14.3	20.1	18.6	19.2	25.8	24.5	24.9			
20	8.8	7.6	8.0	15.0	13.5	14.3	20.3	19.0	19.5	26.2	24.7	25.2			
21	9.6	8.2	8.8	15.4	14.2	14.7	20.6	19.5	20.0	27.0	25.1	25.6			
22	9.5	8.8	9.1	14.4	12.8	13.9	21.2	19.8	20.4	27.3	25.5	26.0			
23	9.6	8.9	9.2	14.2	12.3	13.4	22.1	20.3	20.9	27.2	25.8	26.3			
24	9.6	9.2	9.4	14.7	12.9	13.6	23.1	20.9	21.4	27.3	26.0	26.4			
25	9.6	9.1	9.4	15.2	13.3	14.0	23.1	20.8	21.6	27.4	26.0	26.5			
26	9.3	8.4	8.8	16.3	13.7	14.6	23.0	21.1	22.0	27.5	26.4	26.7			
27	8.4	7.8	8.1	16.6	14.3	15.1	22.2	21.3	21.7	27.7	26.6	26.9			
28	8.6	7.3	7.8	16.2	14.8	15.3	21.6	20.4	21.1	27.6	26.7	27.0			
29	9.1	7.8	8.2	15.6	14.1	14.7	21.9	20.2	20.9	27.6	26.8	27.1			
30	---	---	---	15.3	14.1	14.5	22.3	20.1	21.1	27.5	26.4	26.8			
31	---	---	---	15.8	14.2	14.8	---	---	---	27.3	26.3	26.8			
MONTH	---	---	---	16.6	8.2	13.2	23.1	14.0	18.3	27.7	20.3	24.3			

## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM—CONTINUED  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	27.9	26.3	26.9	29.0	27.8	28.3	29.7	28.5	29.1	27.5	26.7	27.1
2	27.9	26.5	27.1	28.6	28.0	28.3	29.8	28.8	29.2	27.1	26.2	26.7
3	27.9	26.6	27.2	28.5	27.8	28.2	29.4	28.3	29.0	27.0	25.9	26.4
4	27.6	26.5	27.1	28.8	27.7	28.2	30.0	28.6	29.1	26.6	25.8	26.2
5	27.8	26.4	27.0	29.6	28.1	28.6	30.4	28.8	29.5	26.7	25.4	26.1
6	27.7	26.6	27.1	30.0	28.6	29.1	29.6	28.1	28.9	26.6	25.5	26.0
7	27.8	26.7	27.2	30.4	29.1	29.5	28.4	26.7	27.6	26.4	25.3	25.9
8	28.1	26.9	27.4	30.2	29.5	29.7	28.3	27.1	27.6	26.4	25.4	25.8
9	28.4	27.4	27.8	29.9	29.1	29.6	28.2	27.4	27.7	26.6	25.8	26.1
10	28.6	27.6	28.0	30.5	29.4	29.8	28.4	27.4	27.7	26.6	25.8	26.2
11	28.7	27.7	28.1	30.3	29.6	30.0	28.3	27.6	27.9	26.4	25.3	25.9
12	28.6	27.7	28.2	30.0	29.3	29.7	28.4	27.6	27.9	26.2	25.1	25.7
13	27.9	26.5	27.3	29.9	29.2	29.5	27.8	27.1	27.4	25.9	25.0	25.5
14	27.6	26.6	27.2	30.1	29.2	29.6	27.2	26.2	26.9	25.3	24.6	24.9
15	28.1	26.8	27.4	30.4	29.5	29.8	26.7	26.0	26.3	25.6	24.4	24.8
16	28.4	27.2	27.7	30.3	29.1	29.8	26.6	25.8	26.1	25.6	24.3	24.9
17	27.8	27.2	27.5	29.9	29.0	29.4	26.7	25.4	26.0	25.9	24.5	25.2
18	28.7	27.0	27.6	29.2	28.2	28.8	26.6	25.0	25.8	25.8	24.3	24.9
19	29.1	27.7	28.1	30.0	28.1	28.9	26.6	25.0	25.8	25.0	23.4	24.1
20	28.7	27.8	28.3	30.2	28.5	29.1	26.7	25.1	26.0	24.6	22.5	23.5
21	28.5	27.4	28.0	30.0	28.8	29.2	26.8	25.1	26.0	---	---	---
22	29.2	27.8	28.2	30.2	29.0	29.5	26.5	25.1	25.7	---	---	---
23	29.4	28.1	28.5	29.8	29.1	29.4	26.7	25.1	25.8	24.0	23.0	23.5
24	29.1	28.2	28.6	29.9	29.1	29.4	26.6	25.3	26.0	24.4	23.1	23.7
25	29.2	28.3	28.7	29.7	28.6	29.2	26.9	25.5	26.2	---	---	---
26	29.0	28.3	28.5	29.8	28.9	29.3	27.0	26.0	26.6	24.1	23.5	23.8
27	28.6	28.0	28.2	29.7	29.1	29.4	27.5	26.5	26.8	24.9	23.5	24.0
28	28.6	27.7	28.2	29.7	28.7	29.2	27.9	26.7	27.0	25.3	24.4	24.7
29	28.7	27.8	28.3	29.1	28.1	28.6	27.5	26.9	27.2	25.4	24.3	24.8
30	28.9	28.1	28.4	29.7	28.2	28.8	27.7	26.3	26.9	25.3	24.5	25.0
31	---	---	---	29.8	28.4	29.1	27.8	26.9	27.2	---	---	---
MONTH	29.4	26.3	27.8	30.5	27.7	29.2	30.4	25.0	27.2	---	---	---



02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25.4	24.6	25.0	21.2	20.2	20.5	15.1	14.5	14.8	---	---	---
2	25.4	24.5	25.0	21.4	20.6	20.9	---	---	---	---	---	---
3	25.5	24.5	25.1	21.5	20.9	21.2	---	---	---	---	---	---
4	25.6	24.4	25.0	21.8	21.1	21.5	---	---	---	---	---	---
5	25.5	24.0	24.9	21.7	20.7	21.3	---	---	---	---	---	---
6	25.5	23.4	24.8	21.4	19.4	20.8	---	---	---	---	---	---
7	25.2	23.4	24.8	20.8	19.0	20.2	---	---	---	---	---	---
8	25.0	23.4	24.6	20.1	19.3	19.7	---	---	---	---	---	---
9	24.6	23.5	24.2	19.5	17.7	18.4	---	---	---	---	---	---
10	24.2	23.6	23.9	18.0	16.7	17.2	---	---	---	---	---	---
11	24.0	23.4	23.8	17.1	16.4	16.7	---	---	---	---	---	---
12	23.7	23.0	23.4	17.3	16.8	17.0	---	---	---	---	---	---
13	24.1	23.2	23.5	17.3	16.1	16.8	---	---	---	---	---	---
14	23.8	22.9	23.4	16.3	14.9	15.5	---	---	---	---	---	---
15	23.4	22.3	22.9	15.3	13.9	14.6	---	---	---	---	---	---
16	22.9	20.8	21.6	14.6	13.8	14.3	---	---	---	---	---	---
17	21.8	20.2	21.1	14.4	13.4	14.1	---	---	---	---	---	---
18	21.8	20.8	21.3	14.4	13.7	14.2	---	---	---	---	---	---
19	22.6	21.4	21.7	14.9	14.2	14.4	---	---	---	---	---	---
20	22.5	21.9	22.1	15.4	14.4	14.7	---	---	---	---	---	---
21	22.4	21.6	22.1	15.8	14.7	15.2	---	---	---	---	---	---
22	22.0	20.9	21.5	16.3	15.1	15.7	---	---	---	---	---	---
23	21.1	20.0	20.6	16.5	15.3	16.0	---	---	---	---	---	---
24	20.5	19.8	20.1	16.8	15.6	16.2	---	---	---	---	---	---
25	20.0	19.6	19.8	16.9	15.8	16.6	---	---	---	---	---	---
26	19.8	19.2	19.5	16.5	15.0	15.6	---	---	---	---	---	---
27	19.7	19.1	19.4	15.5	14.0	15.0	---	---	---	---	---	---
28	19.7	19.4	19.6	15.3	15.0	15.2	---	---	---	---	---	---
29	19.6	19.2	19.3	15.2	14.2	14.7	---	---	---	---	---	---
30	20.1	19.1	19.5	14.9	14.2	14.6	---	---	---	---	---	---
31	21.2	19.7	20.0	---	---	---	---	---	---	---	---	---
MONTH	25.6	19.1	22.4	21.8	13.4	17.0	---	---	---	---	---	---



## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP—CONTINUED  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	5.7	6.4	6.2	4.6	5.1	6.2	4.8	5.4	5.2	4.1	4.6
2	7.1	5.5	6.3	6.0	4.7	5.2	6.5	4.7	5.4	5.2	3.9	4.6
3	7.0	5.3	6.0	6.5	4.3	5.2	6.5	4.8	5.5	5.4	4.4	4.9
4	6.4	5.1	5.8	6.7	4.5	5.4	7.0	4.6	5.3	5.3	4.2	4.7
5	---	---	---	7.5	5.2	6.1	6.9	4.4	5.4	5.4	4.2	4.7
6	---	---	---	8.5	5.3	6.4	6.7	4.7	5.5	5.6	4.4	5.0
7	---	---	---	8.8	5.5	6.6	7.6	4.7	5.7	6.1	4.6	5.2
8	---	---	---	7.2	5.1	6.0	7.8	4.4	5.7	6.6	5.5	6.1
9	8.4	5.3	6.4	6.7	4.7	5.5	8.4	4.6	5.8	6.8	5.4	6.1
10	8.3	5.5	6.7	6.7	4.4	5.3	8.4	4.6	5.9	5.6	4.1	4.9
11	8.2	5.4	6.7	6.6	4.5	5.4	8.5	4.9	5.8	5.5	4.4	4.8
12	8.1	5.4	6.4	5.8	4.6	5.2	6.4	4.7	5.5	5.8	4.6	5.1
13	8.0	5.2	6.5	6.3	4.9	5.4	6.0	4.5	5.1	5.8	4.4	5.0
14	8.6	5.8	7.0	7.4	5.1	6.0	6.2	4.5	5.2	5.3	4.1	4.7
15	8.1	6.2	7.0	8.3	5.3	6.6	5.7	4.5	5.0	5.0	3.9	4.4
16	7.5	5.7	6.5	9.0	5.5	6.8	5.3	4.4	4.8	4.4	3.4	3.8
17	7.2	5.7	6.3	8.0	5.0	6.1	5.2	4.4	4.7	5.5	3.5	4.6
18	7.8	5.7	6.6	7.1	5.0	5.9	5.3	4.5	4.8	6.0	4.7	5.4
19	8.6	6.2	7.1	8.0	4.8	6.0	5.5	4.5	4.9	6.4	4.7	5.6
20	8.5	6.2	7.0	9.3	5.0	6.4	5.5	4.4	4.9	6.8	5.1	6.1
21	8.9	5.7	7.1	8.1	5.0	6.2	5.7	4.3	4.9	---	---	---
22	9.3	6.0	7.3	8.2	4.4	5.9	5.9	4.2	4.7	---	---	---
23	10.1	5.7	7.3	8.3	4.5	5.8	5.4	4.2	4.7	---	---	---
24	9.8	5.6	7.2	6.7	4.4	5.4	5.6	4.2	4.8	6.4	5.1	5.7
25	8.4	5.7	7.2	6.9	3.9	5.1	5.5	3.7	4.7	---	---	---
26	8.4	5.3	6.4	6.6	4.0	5.1	5.2	4.0	4.6	6.6	5.5	6.0
27	7.7	5.6	6.3	6.4	4.3	5.2	5.1	4.0	4.6	6.5	5.7	6.1
28	7.3	5.6	6.3	5.9	4.5	5.1	4.9	3.8	4.5	6.8	6.1	6.4
29	6.8	5.3	6.0	5.6	4.7	5.1	5.7	3.9	4.9	---	---	---
30	6.4	4.8	5.4	5.6	4.5	5.0	6.2	5.2	5.8	---	---	---
31	---	---	---	5.7	4.6	5.2	6.2	4.4	5.1	---	---	---
MONTH	---	---	---	9.3	3.9	5.7	8.5	3.7	5.1	---	---	---



02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.0	6.4	6.7	---	---	---
2	---	---	---	---	---	---	7.5	6.4	6.9	---	---	---
3	---	---	---	---	---	---	7.6	6.7	7.1	---	---	---
4	---	---	---	---	---	---	7.8	7.0	7.4	---	---	---
5	---	---	---	---	---	---	7.9	7.3	7.6	---	---	---
6	---	---	---	---	---	---	8.1	7.4	7.7	---	---	---
7	---	---	---	---	---	---	8.4	7.5	7.9	---	---	---
8	---	---	---	6.4	5.3	5.8	---	---	---	---	---	---
9	---	---	---	7.3	5.8	6.6	---	---	---	8.8	8.1	8.5
10	---	---	---	7.5	6.3	7.0	---	---	---	9.3	8.4	8.9
11	---	---	---	7.3	6.4	6.9	---	---	---	---	---	---
12	---	---	---	7.0	6.2	6.6	---	---	---	---	---	---
13	---	---	---	7.6	6.7	7.1	---	---	---	---	---	---
14	---	---	---	7.6	6.8	7.1	---	---	---	---	---	---
15	---	---	---	7.4	6.5	7.0	---	---	---	---	---	---
16	---	---	---	7.1	6.3	6.8	---	---	---	---	---	---
17	---	---	---	6.9	6.3	6.7	---	---	---	---	---	---
18	---	---	---	6.9	6.3	6.7	---	---	---	---	---	---
19	---	---	---	7.7	6.5	7.2	---	---	---	---	---	---
20	---	---	---	7.7	6.9	7.3	---	---	---	---	---	---
21	---	---	---	7.5	6.7	7.1	---	---	---	---	---	---
22	---	---	---	7.1	6.5	6.8	---	---	---	---	---	---
23	---	---	---	6.9	6.3	6.6	---	---	---	---	---	---
24	---	---	---	6.7	5.9	6.3	---	---	---	---	---	---
25	---	---	---	7.0	5.9	6.4	---	---	---	---	---	---
26	---	---	---	6.8	6.1	6.5	---	---	---	---	---	---
27	---	---	---	6.6	6.0	6.3	---	---	---	---	---	---
28	---	---	---	6.7	6.0	6.3	---	---	---	---	---	---
29	---	---	---	7.4	6.1	6.7	---	---	---	---	---	---
30	---	---	---	7.0	6.2	6.7	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	10.1	9.0	9.7	8.8	7.3	8.1	---	---	---
2	---	---	---	10.1	9.0	9.7	8.9	7.9	8.2	---	---	---
3	---	---	---	10.1	8.8	9.7	9.0	7.9	8.3	---	---	---
4	---	---	---	10.0	8.7	9.6	8.6	8.0	8.3	---	---	---
5	---	---	---	9.9	8.4	9.4	8.8	8.2	8.5	---	---	---
6	---	---	---	9.7	8.7	9.4	9.0	8.1	8.5	---	---	---
7	---	---	---	9.5	8.4	9.1	8.9	7.9	8.4	6.0	5.3	5.6
8	---	---	---	9.3	8.1	9.0	8.8	7.7	8.2	5.9	5.1	5.5
9	---	---	---	9.3	8.3	8.8	9.0	7.7	8.2	5.8	5.2	5.5
10	---	---	---	9.3	8.5	8.9	9.0	7.8	8.3	---	---	---
11	10.7	9.6	10.2	9.7	8.5	9.1	8.8	7.8	8.2	6.0	5.2	5.6
12	10.9	9.6	10.1	9.4	8.6	8.9	8.3	7.7	8.0	6.1	5.2	5.6
13	10.8	9.7	10.2	9.2	8.4	8.8	8.2	7.6	7.9	6.2	5.3	5.7
14	10.5	9.7	10.0	9.2	8.4	8.7	8.3	7.3	7.8	6.0	5.1	5.5
15	10.3	9.5	9.9	8.9	8.3	8.6	8.4	7.3	7.8	6.0	5.2	5.6
16	10.7	9.6	10.1	8.7	8.1	8.5	8.2	7.4	7.8	5.8	5.1	5.5
17	10.7	9.7	10.1	8.7	8.0	8.3	---	---	---	5.9	5.2	5.5
18	10.8	9.7	10.2	8.7	8.0	8.3	---	---	---	5.8	5.2	5.6
19	10.4	9.7	10.1	8.8	8.1	8.4	---	---	---	6.3	5.4	5.8
20	10.2	9.8	10.0	8.8	8.1	8.5	---	---	---	6.4	5.4	6.0
21	10.5	10.0	10.2	8.8	8.2	8.5	---	---	---	6.4	5.6	6.0
22	10.6	10.0	10.3	9.2	8.3	8.7	---	---	---	6.7	5.7	6.1
23	10.6	9.8	10.2	9.4	8.3	8.8	---	---	---	7.0	5.8	6.3
24	10.3	9.6	10	9.1	8.3	8.7	---	---	---	7.2	6.0	6.4
25	10.1	9.3	9.8	9.0	8.0	8.6	---	---	---	7.0	6.0	6.4
26	10.1	9.2	9.7	9.0	7.9	8.5	---	---	---	6.9	5.7	6.2
27	10.3	9.5	9.8	8.8	8.0	8.3	---	---	---	7.1	5.5	6.1
28	10.0	9.5	9.7	8.6	7.8	8.2	---	---	---	7.2	5.8	6.3
29	10.0	9.5	9.8	8.9	7.6	8.2	---	---	---	---	---	---
30	---	---	---	8.7	7.4	7.9	---	---	---	---	---	---
31	---	---	---	8.4	7.2	7.8	---	---	---	6.8	5.7	6.2
MONTH	---	---	---	10.1	7.2	8.8	---	---	---	---	---	---









## 02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP—CONTINUED  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	96	72	80	81	59	66	82	63	71	66	52	58
2	91	70	79	78	61	67	87	61	71	66	49	57
3	88	68	76	85	55	67	86	63	72	68	55	61
4	80	64	73	88	58	70	95	60	70	67	52	58
5	---	---	---	99	67	79	92	58	71	67	51	59
6	---	---	---	113	69	84	87	61	72	69	54	62
7	---	---	---	118	72	87	98	60	73	75	56	64
8	---	---	---	96	67	80	101	56	73	82	67	75
9	109	67	82	89	62	73	109	59	75	84	67	76
10	107	70	86	90	58	70	110	59	76	70	51	61
11	107	69	86	88	59	71	111	63	75	67	54	60
12	104	69	82	76	61	68	83	60	71	71	56	62
13	102	66	83	84	64	71	77	57	65	71	54	61
14	110	73	88	100	68	79	78	57	65	64	50	57
15	104	78	88	111	70	87	71	56	63	60	47	53
16	97	73	83	121	73	89	66	55	60	54	41	46
17	92	72	80	106	66	80	65	54	59	68	42	56
18	101	72	85	93	65	77	67	55	59	72	56	65
19	113	79	92	106	62	78	69	55	60	76	56	67
20	110	80	90	125	65	85	69	54	60	80	60	72
21	115	73	91	108	65	81	72	52	60	---	---	---
22	122	77	94	110	58	77	74	51	57	---	---	---
23	133	74	94	110	59	76	68	51	58	---	---	---
24	129	72	94	89	58	71	70	51	60	76	60	67
25	110	74	93	92	51	67	69	46	58	---	---	---
26	109	69	83	87	52	67	65	50	58	78	65	71
27	99	72	82	85	57	69	64	50	57	78	67	73
28	95	72	81	78	59	67	62	48	56	82	73	78
29	88	69	77	73	61	66	72	49	62	---	---	---
30	83	62	70	73	59	65	78	66	73	---	---	---
31	---	---	---	75	60	68	79	56	65	---	---	---
MONTH	---	---	---	125	51	74	111	46	65	---	---	---



02108820 CAPE FEAR RIVER AT CHANNEL MARKER 12 NEAR CAROLINA BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	68	62	65	---	---	---
2	---	---	---	---	---	---	71	62	66	---	---	---
3	---	---	---	---	---	---	71	64	67	---	---	---
4	---	---	---	---	---	---	72	66	69	---	---	---
5	---	---	---	---	---	---	73	68	71	---	---	---
6	---	---	---	---	---	---	74	68	71	---	---	---
7	---	---	---	---	---	---	76	69	72	---	---	---
8	---	---	---	70	58	64	---	---	---	---	---	---
9	---	---	---	77	62	70	---	---	---	78	72	75
10	---	---	---	78	67	74	---	---	---	80	74	77
11	---	---	---	76	67	72	---	---	---	---	---	---
12	---	---	---	74	65	70	---	---	---	---	---	---
13	---	---	---	80	71	75	---	---	---	---	---	---
14	---	---	---	78	70	74	---	---	---	---	---	---
15	---	---	---	75	66	72	---	---	---	---	---	---
16	---	---	---	73	64	70	---	---	---	---	---	---
17	---	---	---	72	65	69	---	---	---	---	---	---
18	---	---	---	72	65	69	---	---	---	---	---	---
19	---	---	---	81	68	75	---	---	---	---	---	---
20	---	---	---	79	72	75	---	---	---	---	---	---
21	---	---	---	77	70	73	---	---	---	---	---	---
22	---	---	---	73	67	70	---	---	---	---	---	---
23	---	---	---	71	65	68	---	---	---	---	---	---
24	---	---	---	69	62	65	---	---	---	---	---	---
25	---	---	---	72	62	66	---	---	---	---	---	---
26	---	---	---	69	62	66	---	---	---	---	---	---
27	---	---	---	67	61	64	---	---	---	---	---	---
28	---	---	---	69	61	64	---	---	---	---	---	---
29	---	---	---	71	63	67	---	---	---	---	---	---
30	---	---	---	69	62	66	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	87	78	83	88	72	81	---	---	---
2	---	---	---	92	78	86	88	78	82	---	---	---
3	---	---	---	90	79	87	90	79	82	---	---	---
4	---	---	---	91	78	87	87	80	83	---	---	---
5	---	---	---	91	77	87	87	80	84	---	---	---
6	---	---	---	94	83	89	91	79	84	---	---	---
7	---	---	---	91	81	88	91	78	84	68	60	64
8	---	---	---	90	78	87	90	78	83	68	59	63
9	---	---	---	89	78	84	94	78	84	68	60	64
10	---	---	---	89	81	85	95	80	86	---	---	---
11	91	82	87	89	79	84	94	82	87	72	60	65
12	92	81	86	87	80	83	89	82	85	73	61	67
13	92	82	86	86	79	82	89	81	84	75	63	68
14	88	82	85	86	80	82	87	77	82	73	61	66
15	87	81	84	86	79	82	88	76	82	73	62	67
16	89	81	85	85	77	82	87	77	81	71	61	66
17	90	82	85	84	77	80	---	---	---	72	63	66
18	89	80	85	85	77	81	---	---	---	71	63	67
19	88	80	84	86	79	82	---	---	---	78	65	71
20	88	82	85	87	79	83	---	---	---	78	66	73
21	92	85	88	86	81	84	---	---	---	81	68	73
22	93	87	90	89	80	85	---	---	---	85	70	76
23	93	86	89	89	79	84	---	---	---	88	72	79
24	90	84	87	87	79	83	---	---	---	91	74	80
25	89	81	85	87	79	83	---	---	---	89	74	79
26	87	79	83	89	79	84	---	---	---	88	71	78
27	87	80	83	89	79	83	---	---	---	91	69	77
28	86	80	82	87	77	82	---	---	---	92	73	79
29	87	80	83	87	75	80	---	---	---	---	---	---
30	---	---	---	85	72	78	---	---	---	---	---	---
31	---	---	---	85	70	77	---	---	---	86	72	78
MONTH	---	---	---	94	70	83	---	---	---	---	---	---



