

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC

Neuse Basin
Lower Neuse Subbasin

LOCATION.--Lat 34°59'57", long 76°56'35" referenced to North American Datum of 1983, Craven County, NC, Hydrologic Unit 03020204, at U.S. Coast Guard Channel Light 11.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1989 to 1993, 1996 to current year.

PERIOD OF DAILY RECORD.--

SALINITY (TOP AND BOTTOM): May to December 1989, January 1991 to July 1993, June 1996 to current year.

pH (TOP AND BOTTOM): June 1996 to current year.

WATER TEMPERATURE (TOP): May to December 1989, January 1991 to July 1993, June 1996 to current year.

WATER TEMPERATURE (BOTTOM): June 1996 to current year.

DISSOLVED OXYGEN (TOP AND BOTTOM): May to December 1989, January 1991 to July 1993, June 1996 to current year.

DISSOLVED OXYGEN (MID): May to December 1989, January 1991 to July 1993.

DISSOLVED OXYGEN, PERCENT SATURATION, (TOP AND BOTTOM): May to December 1989, January 1991 to July 1993, June 1996 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION, (MID): May to December 1989, January 1991 to July 1993.

INSTRUMENTATION.--Water-quality monitor from May to December 1989, January 1991 to July 1993. Constituents monitored were: specific conductance, top and bottom, water temperature top, dissolved oxygen, top, mid-depth and bottom. Water-quality monitor with satellite telemetry from June 1996 to current year. Constituents monitored were the same as previous water years except, mid-depth dissolved oxygen was not measured, water temperature, bottom, was added as well as pH top and bottom.

REMARKS.--The monitor was removed on August 29, 1999 to prevent possible destruction of the equipment during Hurricanes Dennis and Floyd. It was reinstalled October 6, 1999. The monitor was removed on September 15, 2003 to prevent possible destruction of the equipment during Hurricane Isabel. It was relocated approximately 150 feet west-southwest of old site on September 19, 2003. The monitor was removed on September 11, 2005 to prevent possible destruction during Hurricane Ophelia. It was reinstalled on September 19, 2005. Prior to June 1996, top constituents were monitored at 10 feet above streambed, mid constituents at 6 feet above streambed, and bottom constituents 2 feet above streambed. Beginning in June 1996 top constituents were monitored at 8 feet above streambed, and bottom constituents 2 feet above streambed. 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 beginning October 1, 2000.

COOPERATION.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SALINITY (TOP): Maximum recorded, 23.5 ppt, July 31, 2002; minimum recorded, <0.1 ppt, on many days during the period.

SALINITY (BOTTOM): Maximum recorded, 24.6 ppt, July 31, 2002; minimum recorded, <0.1 ppt, on many days during the period.

pH (TOP): Maximum recorded, 9.9 standard units, March 17, 1999; minimum recorded, 5.7 standard units, February 16, 1998;

pH (BOTTOM): Maximum recorded, 9.6 standard units, April 3, 2004; minimum recorded, 4.3 standard units, August 21, 2003.

WATER TEMPERATURE (TOP): Maximum recorded, 33.5°C, August 20, 2005; minimum recorded, 0.6°C, January 25, 2003.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 30.7°C, August 2, 2002, July 28, 29, 2005; minimum recorded, 1.2°C, January 24, 2003.

DISSOLVED OXYGEN (TOP): Maximum recorded, 20.0, February 18, 1992; minimum recorded, <1.0 mg/L, on many days during the period.

DISSOLVED OXYGEN (BOTTOM): Maximum recorded, 21.2 mg/L, February 20, 1991; minimum recorded, <1.0 mg/L, on many days during the period.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 20.5 ppt, September 14; minimum recorded, 1.4 ppt, March 8.

SALINITY (BOTTOM): Maximum recorded, 24.0 ppt, August 7, 8, 9; minimum recorded, 1.4 ppt, March 8.

pH (TOP): Maximum recorded, 9.2 standard units, March 6; minimum recorded, 6.8 standard units, March 15.

pH (BOTTOM): Maximum recorded, 8.8 standard units, April 16; minimum recorded, 6.6 standard units, May 2, 3, 4, 5, 6, June 6, 7, 8.

WATER TEMPERATURE (TOP): Maximum recorded, 31.7°C, June 9; minimum recorded, 4.5°C, January 5.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 29.9°C, August 8; minimum recorded, 5.7°C, January 22.

DISSOLVED OXYGEN (TOP): Maximum recorded, 15.9 mg/L, January 8; minimum recorded, 0.0 mg/L, June 9, 10, 11, August 5, 19.

DISSOLVED OXYGEN (BOTTOM): Maximum recorded, 13.0 mg/L, March 3; minimum recorded, 0.0 mg/L, on many days during the year.

DISSOLVED OXYGEN, PERCENT SATURATION (TOP): Maximum recorded, 195%, August 5; minimum recorded, 0%, June 9, 10, 11, August 5, 19.

DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM): Maximum recorded, 137%, June 17; minimum recorded, 0%, on many days during the year.

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

**SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	16.0	14.0	15.1	14.7	10.7	13.6	18.4	14.9	17.1	16.1	13.0	14.6
2	14.4	13.7	14.0	17.5	10.6	15.8	17.6	16.1	17.0	17.0	14.2	15.9
3	15.2	13.1	14.1	17.8	15.1	16.6	18.2	16.5	17.3	16.7	12.9	14.6
4	14.1	13.0	13.4	16.6	13.5	15.0	18.4	17.7	18.1	14.5	11.7	13.4
5	14.1	13.5	13.9	15.1	12.0	13.5	17.9	17.5	17.7	14.4	12.0	13.2
6	14.1	13.6	13.9	18.3	14.9	17.4	17.7	17.3	17.5	14.1	12.0	12.9
7	14.5	13.5	13.8	17.8	16.0	16.7	17.5	17.2	17.4	14.5	11.8	12.9
8	15.4	13.0	13.9	17.5	16.8	17.3	17.2	16.4	17.0	17.3	12.0	13.6
9	15.4	13.1	14.2	17.1	14.2	15.9	17.2	15.3	16.9	16.1	13.0	14.0
10	17.2	15.4	16.3	17.5	15.5	16.9	17.1	16.5	16.9	15.3	9.2	12.4
11	17.7	16.1	16.7	17.0	16.0	16.2	17.8	16.5	17.2	16.5	12.3	15.2
12	17.7	16.0	17.1	16.2	15.3	16.0	18.1	17.6	17.8	16.2	12.2	13.6
13	16.7	15.6	16.2	16.5	15.3	16.0	17.7	16.9	17.5	15.2	8.5	12.2
14	15.8	14.9	15.4	16.7	16.3	16.5	17.8	17.2	17.5	13.7	8.8	12.2
15	16.5	15.4	16.1	16.8	15.9	16.5	18.1	16.9	17.7	15.1	12.8	14.0
16	16.6	15.7	16.2	17.4	16.4	16.8	17.4	15.6	16.5	15.3	15.0	15.2
17	16.4	15.5	16.0	16.9	15.5	16.4	18.4	16.0	17.8	16.4	15.1	15.5
18	16.3	15.7	16.0	16.8	16.0	16.4	16.6	15.7	16.4	16.5	15.2	15.7
19	15.9	15.2	15.5	16.8	15.4	16.3	16.6	15.3	16.0	15.9	15.0	15.3
20	16.4	15.0	15.6	16.3	13.0	15.3	16.2	14.3	15.7	16.5	14.8	15.8
21	16.7	15.6	16.0	18.5	13.5	15.7	16.3	14.5	15.7	16.4	14.9	15.6
22	16.5	15.7	16.2	19.4	17.0	18.7	17.3	14.3	15.7	15.2	14.1	14.7
23	16.5	15.2	15.9	19.5	18.4	19.0	17.3	14.7	16.3	14.9	13.3	14.3
24	15.9	15.1	15.5	19.0	18.3	18.6	16.9	16.0	16.4	15.0	13.0	14.3
25	15.8	14.9	15.4	18.5	16.9	18.1	16.5	14.1	15.8	14.9	13.5	14.4
26	16.1	15.1	15.7	19.2	17.3	18.4	16.0	13.7	15.1	14.7	12.2	13.9
27	15.5	14.7	15.1	19.0	17.8	18.7	16.2	14.9	15.3	14.8	9.9	12.6
28	16.3	15.1	15.7	18.1	17.7	18.0	16.1	14.7	15.2	14.1	11.4	12.8
29	17.9	16.3	17.1	18.1	15.0	17.1	16.6	16.1	16.4	16.5	11.3	14.5
30	17.3	15.4	16.2	18.1	14.6	17.0	16.5	15.7	16.2	17.1	15.0	16.5
31	15.9	14.3	15.1	---	---	---	16.1	15.3	15.7	15.1	14.4	14.8
Month	17.9	13.0	15.4	19.5	10.6	16.7	18.4	13.7	16.7	17.3	8.5	14.2

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

**SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	15.5	13.0	14.3	10.2	7.6	8.8	7.8	6.1	7.1	8.4	6.4	7.6
2	15.2	14.1	14.6	9.3	5.6	7.6	8.9	6.7	7.9	8.3	6.3	7.3
3	14.5	13.0	13.9	8.5	6.9	7.8	8.9	6.1	8.2	9.1	6.1	7.4
4	14.7	13.0	13.9	8.8	7.8	8.3	8.1	5.2	6.1	9.4	6.0	7.3
5	15.3	13.1	14.5	8.3	4.4	6.2	9.0	4.6	7.2	8.1	5.8	6.7
6	15.8	15.3	15.5	8.5	4.7	6.6	5.6	4.6	5.0	7.4	3.5	5.0
7	15.8	15.1	15.4	8.6	5.5	6.8	6.5	3.9	5.0	7.8	4.0	6.5
8	15.4	12.0	13.6	7.3	1.4	4.7	6.5	4.7	5.5	7.8	4.6	5.7
9	14.2	13.0	13.4	9.5	4.0	6.7	5.3	3.5	4.3	7.3	2.9	4.9
10	17.0	14.0	15.1	6.8	2.7	4.1	6.0	2.7	3.9	8.2	5.4	6.7
11	16.4	12.3	14.3	9.8	2.3	4.2	4.8	3.8	4.4	8.2	5.8	7.5
12	15.3	12.2	14.6	9.8	3.8	6.3	5.7	2.3	3.9	8.8	5.5	6.7
13	15.2	13.0	13.9	10.8	4.5	6.9	5.4	2.3	3.7	10.4	5.8	7.5
14	14.5	12.7	13.6	10.8	6.0	8.1	5.2	3.9	4.4	11.6	5.3	7.4
15	13.7	11.8	12.8	13.5	3.5	6.2	9.1	4.6	6.6	11.5	5.5	8.4
16	13.7	11.3	12.7	8.3	3.6	6.7	7.7	4.9	5.6	11.8	8.5	10.2
17	13.1	9.5	11.5	8.4	6.7	7.6	7.1	5.5	6.2	11.0	7.0	8.9
18	13.4	11.9	12.6	7.3	6.2	7.1	6.7	4.9	6.0	13.3	7.3	9.7
19	13.7	11.8	12.6	8.3	4.9	6.8	10	6.1	8.8	11.7	9.0	10.6
20	13.6	9.3	11.8	10.2	4.8	7.7	10.1	6.8	8.5	11.5	10.2	10.7
21	13.1	8.7	11.5	8.6	5.6	6.3	8.5	4.9	6.5	11.3	7.8	9.7
22	10.8	4.6	7.5	10.5	5.7	8.4	9.0	5.8	7.9	8.6	6.8	7.6
23	10.7	6.2	8.1	9.2	6.7	7.8	8.1	5.4	7.1	9.5	7.6	8.5
24	7.8	6.7	7.5	7.9	7.4	7.6	7.6	4.0	5.9	9.6	8.8	9.2
25	7.7	3.1	5.4	8.4	4.4	6.9	8.3	3.1	5.7	10	7.7	8.6
26	8.3	6.0	7.2	9.0	5.2	7.4	8.7	5.5	7.5	9.6	7.5	8.4
27	10.2	6.4	7.9	9.8	8.1	9.4	9.8	5.5	8.1	11.5	7.6	8.8
28	11.5	7.8	10.5	10.0	6.8	8.6	10.5	6.8	8.4	11.7	8.9	10.6
29	9.5	5.5	8.2	10.3	8.3	9.6	9.4	6.6	7.9	11.5	9.9	10.6
30	---	---	---	10.7	8.8	9.5	8.3	6.8	7.6	10.4	9.4	10.0
31	---	---	---	10.3	6.0	7.1	---	---	---	11.4	9.1	10.0
Month	17.0	3.1	12.0	13.5	1.4	7.2	10.5	2.3	6.4	13.3	2.9	8.2

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

**SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	11.7	10.1	11.0	16.6	13.9	15.3	18.8	15.3	17.3	18.4	16.9	17.7
2	11.2	9.5	10.6	15.5	12.7	14.4	18.7	14.9	16.9	16.9	14.6	16.0
3	10.6	9.0	10.0	15.7	12.7	14.7	17.9	14.6	16.7	18.9	14.6	16.1
4	10.9	9.5	9.9	16.8	14.1	15.3	19.6	13.7	15.9	17.7	15.6	16.8
5	11.1	9.1	10.3	16.3	15.0	15.7	19.6	16.2	18.4	18.8	17.3	18.3
6	11.1	8.5	10.2	16.6	13.9	14.9	18.9	14.9	16.2	18.8	15.2	17.0
7	11.8	8.5	9.5	14.8	14.2	14.4	18.4	15.5	16.1	17.2	16.5	16.9
8	13.9	10.7	11.7	15.3	13.9	14.7	19.3	17.5	18.3	17.2	15.8	16.8
9	14.6	11.1	12.8	16.2	13.6	14.7	18.5	17.5	17.9	17.5	16.3	17.0
10	16.0	11.5	13.5	---	---	---	19.5	17.9	18.7	17.5	16.1	16.9
11	16.3	12.9	14.8	---	---	---	19.8	19.4	19.5	17.1	12.3	14.9
12	15.1	13.0	14.0	---	---	---	19.6	19.2	19.5	17.5	9.6	14.4
13	15.0	12.0	13.3	---	---	---	20.0	19.3	19.7	18.9	13.6	15.6
14	13.5	11.4	12.5	---	---	---	19.9	19.6	19.8	20.5	16.1	17.7
15	14.8	11.5	12.6	13.4	12.4	12.7	19.8	18.3	19.4	19.3	13.8	17.5
16	14.8	13.1	13.9	13.9	12.4	13.4	19.4	18.4	19.0	14.9	10.3	13.2
17	15.0	13.0	14.3	13.8	11.6	12.7	19.0	17.3	18.7	15.7	10.9	12.7
18	14.4	13.0	14.1	13.1	12.2	12.8	19.0	18.0	18.4	18.3	12.8	14.3
19	14.1	12.0	13.0	13.8	12.6	13.0	19.0	17.9	18.2	18.3	13.0	17.4
20	13.7	12.2	13.0	14.5	13.7	14.3	19.4	18.1	18.7	19.0	16.6	18.3
21	13.8	12.2	13.0	14.5	13.3	14.0	19.1	18.7	18.9	18.1	15.8	17.2
22	13.6	12.4	13.1	14.3	12.8	13.7	19.2	18.7	19.0	16.8	10.2	12.9
23	13.4	12.8	13.0	15.6	12.6	14.0	19.3	18.8	19.0	16.8	13.6	16.1
24	13.8	12.9	13.4	15.3	13.5	14.2	19.3	18.7	19.1	16.9	14.6	15.9
25	13.5	12.9	13.2	15.0	13.6	14.6	19.0	17.8	18.4	17.3	15.5	16.4
26	15.1	12.5	13.5	15.0	12.8	14.1	19.1	18.1	18.5	16.9	14.9	15.9
27	15.5	13.3	14.3	16.0	13.7	14.6	19.0	17.5	18.5	15.7	13.2	14.7
28	15.8	13.5	14.5	15.8	13.1	14.8	18.8	16.9	17.9	15.7	14.1	15.0
29	15.9	13.4	14.6	17.3	13.2	15.1	18.1	17.1	17.7	19.4	11.7	14.6
30	15.7	12.2	14.3	17.9	15.2	16.6	18.8	17.2	17.9	17.4	12.2	15.3
31	---	---	---	19.6	16.6	17.9	17.9	16.5	17.3	---	---	---
Month	16.3	8.5	12.7	---	---	---	20.0	13.7	18.2	20.5	9.6	16.0

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	16.5	15.0	15.6	17.1	14.6	16.1	18.4	17.1	17.8	17.5	14.7	16.2
2	16.5	14.1	15.7	17.6	15.7	16.7	18.3	17.2	17.9	17.1	15.3	16.3
3	16.9	15.9	16.5	17.9	15.7	17.3	18.0	16.3	17.2	17.1	14.2	15.8
4	16.1	14.7	15.4	18.4	17.6	18.0	18.1	17.7	17.9	18.4	14.7	17.0
5	15.6	13.9	14.4	18.6	18.1	18.4	17.7	17.5	17.6	18.4	18.2	18.3
6	15.5	13.8	14.6	19.0	17.9	18.4	17.5	17.2	17.4	18.4	18.0	18.2
7	16.2	15.3	15.7	18.8	16.6	17.6	17.5	17.3	17.4	18.4	18.2	18.3
8	16.6	15.7	16.3	17.8	17.1	17.5	17.5	17.3	17.4	18.4	18.3	18.3
9	18.0	16.5	17.2	17.9	17.1	17.6	17.9	17.3	17.5	19.5	18.2	18.6
10	19.0	17.9	18.7	18.6	16.8	17.4	18.6	17.3	17.9	20.5	19.4	20.0
11	19.0	16.9	17.9	17.2	16.2	16.5	19.2	17.7	18.2	19.7	17.1	18.5
12	17.8	17.1	17.5	16.5	16.1	16.2	18.3	17.7	18.1	19.7	16.5	18.0
13	17.5	16.6	16.9	17.7	16.4	17.3	18.2	17.7	18.0	19.4	16.3	18.1
14	18.4	16.5	17.3	17.7	16.8	17.5	18.6	17.7	18.3	20.0	16.5	18.9
15	18.3	15.9	16.5	17.5	16.0	16.7	18.3	17.9	18.1	19.9	14.3	18.1
16	16.8	16.3	16.6	17.5	16.5	17.0	18.1	15.7	16.8	17.5	15.1	16.2
17	16.9	16.2	16.5	17.5	16.7	17.3	18.6	16.9	18.1	17.6	15.3	16.3
18	16.4	15.9	16.2	18.1	16.8	17.5	18.4	16.9	17.6	17.5	15.5	16.6
19	16.4	15.3	15.8	18.6	16.9	17.7	17.9	17.8	17.9	17.3	15.3	16.5
20	16.9	15.2	16.2	19.1	18.4	18.8	18.9	17.9	18.4	16.5	15.2	15.8
21	16.8	16.3	16.6	19.4	19.0	19.2	18.7	15.7	17.0	17.8	15.6	16.7
22	16.7	16.1	16.4	19.8	19.2	19.5	17.7	16.2	17.2	18.1	15.0	17.0
23	16.8	15.9	16.4	19.6	18.5	19.1	17.9	16.7	17.5	18.1	17.8	18.0
24	16.0	15.3	15.6	19.1	18.4	18.8	17.9	16.5	17.3	18.1	15.1	17.4
25	16.1	15.1	15.7	18.8	18.3	18.6	17.9	15.9	16.8	15.4	14.3	15.0
26	16.1	15.5	15.9	20.1	18.8	19.5	17.1	15.1	16.1	16.8	15.3	15.9
27	16.5	15.1	15.7	19.4	18.6	19.0	17.0	16.5	16.8	17.0	15.5	16.4
28	16.3	15.3	15.8	18.7	18.0	18.3	17.5	16.9	17.2	17.8	15.9	16.5
29	17.9	16.3	17.2	18.4	17.7	18.1	17.3	16.5	16.8	18.2	16.3	17.7
30	18.4	16.3	17.2	18.2	16.7	17.7	17.1	16.5	16.8	17.9	16.2	17.0
31	17.9	15.4	16.1	---	---	---	16.7	15.9	16.3	17.4	14.8	15.7
Month	19.0	13.8	16.3	20.1	14.6	17.8	19.2	15.1	17.5	20.5	14.2	17.2

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	16.5	13.2	15.1	17.3	10.3	13.6	9.3	6.8	8.1	14.5	10.2	12.4
2	16.1	15.3	15.7	17.4	9.3	15.0	10.1	7.2	8.6	12.8	10.0	11.5
3	15.7	15.5	15.6	12.0	8.5	10.0	8.8	6.7	8.2	14.8	9.8	13.1
4	15.9	15.3	15.7	10.0	8.1	8.9	9.5	6.6	8.5	15.0	12.3	13.9
5	15.9	15.6	15.8	11.4	5.2	8.9	10.2	7.1	9.1	16.7	11.1	14.8
6	15.7	15.3	15.6	13.7	9.3	11.8	14.0	9.2	10.9	16.4	9.2	13.3
7	16.1	15.1	15.7	11.6	6.5	8.7	14.8	6.2	13.1	15.3	10.6	13.4
8	18.8	15.9	17.4	9.7	1.4	5.3	13.4	6.5	9.2	15.3	11.5	13.3
9	19.0	16.7	17.9	10	4.1	8.4	14.9	7.8	12.0	14.1	3.7	10.0
10	18.2	14.9	16.7	11.7	9.8	10.8	15.2	11.4	13.4	14.1	7.3	11.7
11	16.3	15.5	15.9	13.9	10.0	11.7	12.0	10.6	11.5	8.3	6.8	7.8
12	16.0	14.7	15.4	15.6	12.2	14.5	13.2	10.9	12.1	9.0	5.4	6.9
13	15.2	13.4	14.1	16.5	13.7	15.8	15.4	10.1	14.3	10.7	5.7	8.1
14	15.0	13.6	14.4	16.2	14.1	15.3	16.4	8.6	15.3	12.4	8.3	11.2
15	16.9	14.9	15.8	17.5	15.4	16.7	16.1	5.3	10.2	12.3	12.0	12.1
16	16.7	12.7	14.7	17.7	7.0	12.0	12.0	5.0	6.6	13.0	10.8	12.0
17	16.7	14.7	15.7	18.9	7.6	11.7	13.7	6.1	9.3	14.5	9.8	11.9
18	15.2	12.2	13.0	17.1	7.4	13.8	12.8	8.1	11.5	14.5	10.4	13.2
19	13.9	12.0	13.0	15.3	6.7	11.3	14.3	12.0	13.0	14.5	10.7	13.3
20	14.3	12.2	13.7	13.6	7.1	9.3	13.3	8.0	10.8	14.5	10.4	12.7
21	13.6	11.7	12.6	11.3	7.5	10.1	9.8	7.5	8.5	12.6	10.6	11.6
22	12.6	9.0	11.6	12.5	8.7	11.3	10.9	8.1	9.2	14.5	11.4	13.5
23	14.2	12.0	13.6	12.4	7.2	8.5	9.8	8.4	9.4	14.2	12.4	13.9
24	14.5	8.0	12.7	7.9	7.3	7.6	10.7	9.3	9.9	13.8	9.3	11.6
25	14.1	7.4	12.4	11.4	7.1	8.7	10.4	9.0	9.8	13.7	10.2	12.3
26	13.9	8.0	12.3	11.8	9.1	10.9	12.5	9.2	11.0	13.9	12.0	13.4
27	14.8	8.5	11.1	10.7	9.4	9.8	12.8	11.2	12.0	14.1	12.0	13.5
28	11.7	10	11.0	10	7.3	9.2	12.6	9.4	11.6	14.2	10.2	12.6
29	10.9	10	10.6	11.1	9.0	9.8	12.3	8.3	10.1	11.5	10.6	11.0
30	---	---	---	10.6	8.6	9.4	14.5	7.6	10.8	12.4	10.6	11.4
31	---	---	---	10.4	7.0	7.9	---	---	---	13.6	11.1	12.0
Month	19.0	7.4	14.3	18.9	1.4	10.9	16.4	5.0	10.6	16.7	3.7	12.0

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	13.5	10.9	12.0	17.5	15.6	16.8	21.2	19.2	20.4	19.4	17.8	18.3
2	13.3	10.7	12.0	19.4	17.5	18.3	21.9	18.8	20.8	18.7	17.3	18.2
3	12.5	11.2	11.5	19.0	18.0	18.7	22.1	19.0	21.1	20.1	18.7	19.8
4	12.7	9.7	11.5	19.5	16.0	18.1	22.2	20.7	21.7	20.3	19.4	20.1
5	12.5	9.7	11.5	18.7	16.1	17.9	22.1	20.6	21.5	19.4	17.8	18.7
6	14.3	11.7	13.3	17.5	14.7	15.8	23.4	22.1	22.8	18.9	15.3	17.1
7	15.5	13.9	14.9	17.4	14.8	16.7	24.0	23.3	23.7	18.4	16.7	17.9
8	17.1	15.5	16.3	18.0	15.4	17.4	24.0	19.6	23.3	19.3	18.1	18.9
9	17.6	13.8	16.6	18.1	17.3	17.8	24.0	20.1	21.7	20.1	18.5	19.3
10	18.3	15.1	17.6	20.0	16.3	18.9	22.1	19.6	20.8	19.8	17.6	19.2
11	18.5	16.3	17.7	20.9	18.0	19.8	21.7	19.8	20.9	21.6	18.2	20.1
12	17.2	14.2	15.5	21.2	18.1	20.5	20.3	19.6	19.7	21.7	19.9	20.9
13	16.1	13.1	14.8	20.9	18.1	19.9	20.5	19.6	19.9	21.2	19.0	20.6
14	16.1	15.0	15.6	20.1	18.1	19.1	20.0	19.7	19.9	21.5	20.8	21.3
15	16.0	15.3	15.7	21.2	19.0	20.5	19.9	19.6	19.8	21.4	20.8	21.2
16	16.1	14.4	15.7	21.1	14.1	19.7	19.9	19.3	19.7	21.7	19.8	21.3
17	15.6	14.3	15.0	21.0	13.5	17.5	19.9	18.9	19.4	22.0	17.6	20.2
18	15.6	14.3	14.6	17.7	15.0	16.9	19.6	18.9	19.3	20.0	17.0	18.4
19	16.3	14.4	15.1	17.3	13.9	16.2	19.7	19.2	19.4	18.5	17.9	18.2
20	16.8	14.0	16.2	14.4	13.9	14.2	19.6	18.8	19.3	19.2	17.9	18.5
21	16.3	15.4	15.9	16.3	14.2	15.1	19.2	18.7	18.9	18.4	17.1	17.8
22	16.1	15.4	15.7	17.2	15.5	16.7	19.9	18.8	19.1	17.1	16.6	16.9
23	16.1	15.3	15.6	17.7	15.5	17.0	19.9	19.0	19.3	17.2	16.1	16.6
24	16.3	14.9	15.7	16.9	14.1	15.8	19.6	18.9	19.3	17.0	15.7	16.2
25	16.6	15.9	16.3	17.3	15.1	16.3	20.0	19.1	19.5	17.3	15.6	16.4
26	17.9	14.3	16.7	17.9	15.9	17.3	20.5	19.6	20.2	16.9	16.2	16.4
27	17.9	14.3	17.0	18.6	17.3	18.0	19.6	18.9	19.1	16.3	15.9	16.1
28	18.6	15.0	17.5	19.0	16.6	18.0	19.5	19.0	19.3	18.5	16.3	16.6
29	18.4	13.5	16.8	19.8	18.9	19.3	19.6	19.2	19.3	21.7	18.5	20.9
30	17.3	13.5	16.0	19.9	18.6	19.3	19.9	19.1	19.6	21.6	20.5	21.2
31	---	---	---	20.8	18.8	20.1	20.1	19.3	19.7	---	---	---
Month	18.6	9.7	15.2	21.2	13.5	17.9	24.0	18.7	20.3	22.0	15.3	18.8

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	7.9	7.6	7.7	8.2	7.9	8.1	8.1	7.9	7.9	8.4	8.2	8.3
2	7.9	7.6	7.8	8.1	7.9	8.0	8.0	7.9	8.0	8.2	8.1	8.2
3	8.0	7.6	7.8	8.2	7.9	8.0	7.9	7.8	7.9	8.1	8.0	8.1
4	8.1	7.8	8.0	8.3	8.1	8.2	7.9	7.8	7.8	8.3	8.0	8.1
5	8.0	7.9	8.0	8.4	8.1	8.2	8.0	7.9	8.0	8.6	8.0	8.3
6	8.0	7.7	7.9	8.2	7.8	7.9	8.0	7.9	8.0	8.3	8.1	8.2
7	8.1	7.8	8.0	8.2	8.0	8.1	8.0	7.9	8.0	8.6	8.2	8.4
8	8.1	7.9	8.0	8.2	8.1	8.2	8.1	8.0	8.0	8.7	8.4	8.5
9	8.2	7.7	8.0	8.2	8.0	8.2	8.1	8.0	8.0	8.6	8.3	8.5
10	8.2	7.5	7.8	8.2	8.0	8.1	8.1	8.0	8.0	8.7	7.8	8.2
11	8.1	7.7	7.9	8.3	8.0	8.1	8.0	7.9	8.0	8.1	7.5	7.8
12	8.1	7.8	7.9	8.3	8.0	8.2	8.0	7.9	7.9	8.2	7.8	8.0
13	8.2	8.0	8.1	8.3	8.2	8.3	8.1	8.0	8.0	8.5	7.8	8.0
14	8.3	8.1	8.2	8.3	8.0	8.2	8.1	8.0	8.0	8.1	7.9	8.0
15	8.2	8.1	8.2	8.1	7.9	8.1	8.1	8.0	8.0	8.1	7.9	8.0
16	8.2	8.0	8.1	8.1	7.9	8.1	8.1	8.0	8.0	7.9	7.6	7.8
17	8.2	8.0	8.1	8.3	8.1	8.2	8.0	7.9	8.0	7.9	7.7	7.8
18	8.2	7.9	8.1	8.3	8.2	8.2	8.1	8.0	8.0	7.8	7.6	7.8
19	8.1	8.0	8.0	8.3	8.1	8.2	8.2	8.0	8.1	7.9	7.7	7.7
20	8.2	7.8	8.0	8.2	8.1	8.2	8.3	8.0	8.2	7.8	7.6	7.7
21	8.3	8.1	8.2	8.2	8.0	8.2	8.3	8.1	8.2	7.9	7.7	7.8
22	8.3	8.1	8.2	8.1	7.9	8.0	8.2	8.1	8.1	8.0	7.8	7.9
23	8.3	8.0	8.2	8.2	7.9	8.1	8.2	8.0	8.1	8.1	7.8	7.9
24	8.1	7.9	8.0	8.2	8.1	8.1	8.2	8.0	8.1	8.1	8.0	8.1
25	8.1	7.9	8.0	8.2	8.2	8.2	8.2	8.1	8.2	8.3	8.0	8.0
26	8.1	8.0	8.0	8.2	8.1	8.2	8.3	8.1	8.2	8.3	8.0	8.2
27	8.0	7.8	7.9	8.2	8.1	8.2	8.3	8.1	8.2	8.3	8.1	8.2
28	8.1	7.9	8.0	8.3	8.2	8.2	8.4	8.2	8.3	8.3	8.2	8.2
29	8.2	8.0	8.1	8.4	7.9	8.1	8.3	8.1	8.2	8.3	8.0	8.2
30	8.2	8.1	8.1	8.1	7.9	8.0	8.3	8.2	8.2	8.2	7.7	8.0
31	8.2	7.9	8.1	---	---	---	8.3	8.1	8.2	8.2	8.1	8.1
Max	8.3	8.1	8.2	8.4	8.2	8.3	8.4	8.2	8.3	8.7	8.4	8.5
Min	7.9	7.5	7.7	8.1	7.8	7.9	7.9	7.8	7.8	7.8	7.5	7.7

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	8.2	8.0	8.1	8.7	8.0	8.5	8.3	7.8	8.1	8.3	7.4	8.0
2	8.3	8.0	8.2	8.8	8.6	8.7	8.4	7.6	8.3	8.2	7.6	8.0
3	8.5	8.2	8.3	8.9	8.6	8.8	8.3	7.9	8.2	8.4	7.6	8.0
4	8.5	8.2	8.4	8.9	8.7	8.8	8.8	7.6	8.0	8.5	7.4	8.0
5	8.7	8.3	8.4	8.9	7.8	8.6	8.0	7.3	7.6	8.6	7.9	8.3
6	8.3	8.0	8.2	9.2	8.5	8.8	8.5	7.6	8.0	8.8	8.0	8.3
7	8.3	7.7	8.1	9.1	8.5	9.0	8.3	7.5	7.8	8.4	7.2	8.0
8	8.4	7.7	8.3	8.7	7.7	7.9	8.2	7.5	7.7	8.2	7.0	7.4
9	8.5	8.2	8.4	8.8	7.8	8.4	7.8	7.1	7.4	8.0	7.3	7.7
10	8.4	8.1	8.2	9.0	8.0	8.3	7.2	6.9	7.1	8.6	7.4	7.9
11	8.5	8.2	8.3	8.9	7.6	8.7	7.8	7.1	7.3	8.2	7.6	7.9
12	8.5	8.2	8.3	8.2	7.7	8.0	7.7	7.2	7.3	7.6	7.2	7.4
13	8.2	8.0	8.1	8.4	7.0	7.6	7.7	7.0	7.2	7.6	7.1	7.2
14	8.2	7.9	8.1	8.2	7.0	7.4	7.4	7.0	7.2	8.2	7.0	7.3
15	8.4	8.1	8.2	8.0	6.8	7.5	8.6	7.3	7.8	7.7	6.9	7.2
16	8.4	8.1	8.2	7.7	7.1	7.4	8.4	7.3	7.6	7.8	7.0	7.2
17	8.4	8.0	8.2	8.0	7.4	7.7	8.3	7.4	7.7	8.6	7.4	7.8
18	8.2	7.8	8.0	8.6	7.7	8.1	8.7	7.6	8.0	8.3	7.3	7.7
19	8.3	7.8	8.1	8.4	7.2	8.1	8.6	7.3	7.8	8.3	7.4	8.0
20	8.3	8.0	8.1	8.0	7.2	7.6	8.0	7.3	7.6	8.3	7.5	8.0
21	8.2	7.9	8.1	8.5	7.5	7.7	8.6	7.5	7.8	8.2	7.2	7.9
22	8.2	7.8	8.1	8.6	7.2	8.2	8.4	7.8	8.2	8.6	8.0	8.4
23	8.7	7.8	8.1	8.8	8.0	8.2	8.4	7.9	8.1	8.5	8.0	8.2
24	8.2	7.8	7.9	8.5	8.2	8.4	8.4	7.6	8.0	8.2	7.8	8.0
25	8.5	7.7	7.9	8.8	8.3	8.4	8.6	7.3	8.0	8.1	7.8	7.8
26	8.7	7.8	8.3	8.7	8.0	8.4	8.0	7.2	7.5	8.2	7.5	7.8
27	8.2	7.6	7.9	8.6	8.1	8.4	7.8	6.9	7.2	8.1	7.2	7.7
28	8.4	8.0	8.2	8.6	8.0	8.4	7.7	7.0	7.2	7.4	7.2	7.3
29	8.6	8.1	8.3	8.6	8.3	8.5	7.8	7.1	7.5	7.6	7.3	7.4
30	---	---	---	8.5	8.0	8.2	8.0	7.3	7.7	8.1	7.2	7.5
31	---	---	---	8.5	7.9	8.1	---	---	---	8.0	7.3	7.8
Max	8.7	8.3	8.4	9.2	8.7	9.0	8.8	7.9	8.3	8.8	8.0	8.4
Min	8.2	7.6	7.9	7.7	6.8	7.4	7.2	6.9	7.1	7.4	6.9	7.2

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	7.9	7.3	7.6	7.9	7.5	7.6	8.2	7.4	7.7	8.5	8.2	8.3
2	7.9	7.4	7.7	8.3	7.4	7.6	8.1	7.6	7.8	8.7	8.5	8.6
3	8.0	7.6	7.8	8.0	7.5	7.8	8.3	7.5	7.8	8.7	8.3	8.5
4	8.0	7.5	7.8	8.2	7.5	7.8	8.5	7.8	8.2	8.6	8.0	8.4
5	8.0	7.4	7.6	8.0	7.5	7.8	8.4	7.3	7.6	8.2	8.0	8.1
6	8.0	7.4	7.6	7.9	7.6	7.7	8.5	7.8	8.3	8.0	7.4	7.7
7	7.9	7.2	7.4	8.0	7.6	7.8	8.6	8.3	8.4	8.2	7.6	7.9
8	7.9	7.1	7.3	8.2	7.7	7.9	8.4	7.9	8.2	8.2	8.0	8.1
9	7.4	7.0	7.2	8.1	7.8	8.0	8.3	8.1	8.2	8.2	7.7	7.9
10	7.4	7.0	7.2	---	---	---	8.2	7.7	8.1	8.2	7.6	7.8
11	7.9	7.1	7.5	---	---	---	8.3	7.6	7.9	8.8	7.7	8.3
12	7.8	7.5	7.7	---	---	---	8.2	7.9	8.1	8.7	8.3	8.5
13	7.9	7.5	7.8	---	---	---	8.0	7.7	7.9	8.5	7.8	8.3
14	8.2	7.5	7.8	---	---	---	8.0	7.6	7.8	8.2	7.5	7.9
15	8.3	7.3	7.7	8.5	8.2	8.3	8.2	7.7	7.9	8.0	7.1	7.5
16	8.4	7.3	7.6	8.3	8.0	8.1	8.0	7.7	7.9	8.2	7.8	8.0
17	8.4	7.4	7.8	8.2	8.0	8.2	8.2	7.7	7.9	8.1	7.5	7.7
18	8.3	7.6	8.0	8.3	7.9	8.1	8.1	7.6	7.9	8.2	7.6	7.7
19	8.2	7.7	8.0	8.2	8.0	8.2	7.9	7.5	7.7	8.2	7.9	8.1
20	8.4	7.7	8.1	8.2	7.8	8.0	7.9	7.5	7.7	8.2	8.0	8.1
21	8.6	7.7	8.0	8.0	7.7	7.9	7.9	7.6	7.8	8.2	7.9	8.0
22	8.4	8.0	8.3	8.3	7.5	8.0	8.0	7.6	7.8	8.1	7.6	7.7
23	8.3	7.8	8.1	8.2	7.6	7.9	8.0	7.8	7.9	8.2	7.9	8.0
24	8.2	7.7	8.1	8.1	7.5	7.8	8.1	7.8	7.9	8.2	7.9	8.0
25	8.1	7.6	7.9	8.2	7.7	8.1	8.3	7.9	8.0	8.1	7.9	8.0
26	8.1	7.2	7.6	8.4	8.0	8.2	8.3	8.0	8.1	8.1	7.5	7.9
27	7.7	7.3	7.5	8.2	7.6	8.0	8.2	8.0	8.1	8.0	7.4	7.8
28	8.0	7.3	7.6	8.4	7.5	7.8	8.3	7.9	8.1	7.8	7.5	7.6
29	7.7	7.4	7.6	8.4	7.8	8.0	8.5	8.2	8.3	7.8	7.2	7.5
30	7.8	7.5	7.6	8.3	7.5	7.9	8.5	8.2	8.3	7.7	7.4	7.6
31	---	---	---	7.8	7.3	7.6	8.5	8.0	8.3	---	---	---
Max	8.6	8.0	8.3	---	---	---	8.6	8.3	8.4	8.8	8.5	8.6
Min	7.4	7.0	7.2	---	---	---	7.9	7.3	7.6	7.7	7.1	7.5

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	8.2	8.0	8.2	8.3	8.0	8.2	8.3	8.1	8.2	8.3	7.8	8.1
2	8.2	7.9	8.1	8.3	8.1	8.2	8.2	8.1	8.2	8.2	7.8	8.1
3	8.1	8.0	8.0	8.3	8.2	8.3	8.2	8.1	8.2	7.9	7.7	7.8
4	8.0	7.6	7.7	8.3	8.0	8.2	8.2	8.0	8.1	7.9	7.8	7.9
5	8.1	7.5	8.0	8.0	7.9	7.9	8.2	8.1	8.2	7.9	7.8	7.8
6	8.1	7.5	7.9	8.1	7.9	8.0	8.3	8.1	8.2	8.0	7.8	7.9
7	8.2	7.6	7.8	8.3	8.0	8.2	8.4	8.3	8.3	8.0	7.9	8.0
8	8.0	7.5	7.7	8.4	8.2	8.3	8.4	8.2	8.3	8.0	7.9	8.0
9	7.7	7.5	7.6	8.4	8.2	8.3	8.3	8.2	8.3	8.0	7.8	8.0
10	7.6	7.3	7.5	8.3	8.0	8.2	8.2	8.1	8.2	8.0	7.8	7.9
11	8.0	7.2	7.7	8.3	8.2	8.2	8.2	8.1	8.2	7.8	7.6	7.7
12	8.1	7.8	7.9	8.4	8.1	8.3	8.2	8.1	8.2	7.7	7.5	7.6
13	8.1	7.8	8.0	8.4	8.2	8.3	8.2	8.1	8.2	8.2	7.5	7.8
14	8.1	7.3	7.8	8.2	7.9	8.0	8.3	8.2	8.2	8.1	7.7	7.8
15	8.2	7.4	8.1	8.0	7.8	8.0	8.3	8.1	8.2	8.1	7.7	7.8
16	8.2	8.0	8.1	8.1	7.9	8.0	8.1	8.0	8.1	8.1	7.7	7.9
17	8.2	7.8	8.0	8.2	7.9	8.0	8.2	8.0	8.0	8.1	7.7	7.9
18	8.2	7.9	8.0	8.2	8.0	8.0	8.2	8.0	8.1	8.1	7.8	7.9
19	8.1	7.6	8.0	8.2	7.8	8.1	8.3	8.1	8.2	8.1	7.7	7.9
20	8.0	7.6	7.9	7.9	7.7	7.8	8.3	7.8	7.9	8.0	7.8	7.9
21	8.1	7.9	8.0	8.0	7.8	7.9	8.2	7.8	8.0	8.1	7.9	8.0
22	8.2	7.8	8.1	8.0	7.8	7.9	8.1	8.0	8.0	8.2	8.0	8.1
23	8.2	8.0	8.1	8.1	7.9	8.0	8.3	7.9	8.0	8.0	7.9	8.0
24	8.2	8.0	8.1	8.2	8.0	8.0	8.2	7.9	8.0	8.2	7.9	8.0
25	---	---	---	8.2	8.1	8.2	8.2	7.9	8.1	8.1	7.9	8.1
26	8.1	7.9	8.0	8.2	8.0	8.1	8.1	7.9	8.1	8.2	7.9	8.0
27	8.0	7.5	7.8	8.2	8.0	8.1	8.2	7.9	8.0	8.1	7.8	7.9
28	8.0	7.7	8.0	8.3	8.1	8.2	8.2	7.8	8.0	8.0	7.8	7.9
29	8.1	7.9	8.0	8.2	8.0	8.2	8.2	7.8	8.0	8.2	7.9	8.0
30	8.1	7.8	8.0	8.2	8.1	8.2	8.2	7.9	8.1	8.2	7.9	8.0
31	8.3	7.9	8.1	---	---	---	8.1	8.0	8.1	8.3	7.9	8.2
Max	---	---	---	8.4	8.2	8.3	8.4	8.3	8.3	8.3	8.0	8.2
Min	---	---	---	7.9	7.7	7.8	8.1	7.8	7.9	7.7	7.5	7.6

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	8.2	8.0	8.1	7.9	7.1	7.4	8.3	7.8	8.1	7.0	6.7	6.8
2	8.1	7.8	8.0	7.5	7.0	7.1	8.4	7.6	8.2	6.9	6.6	6.7
3	8.1	7.7	8.0	8.6	7.2	7.9	8.3	7.7	8.2	7.2	6.6	6.6
4	8.2	7.9	8.0	8.5	7.5	8.4	8.1	7.3	7.7	6.9	6.6	6.6
5	8.0	7.9	8.0	8.4	7.5	8.0	7.8	6.9	7.3	6.9	6.6	6.7
6	8.3	8.0	8.2	8.1	7.4	7.7	7.3	6.8	7.0	7.6	6.6	6.7
7	8.4	8.0	8.2	8.6	7.5	8.3	7.9	6.8	6.9	7.1	6.7	6.8
8	8.2	7.9	8.0	8.3	7.5	7.7	8.3	6.9	7.6	7.0	6.8	6.9
9	8.1	7.9	8.0	8.7	7.6	8.0	7.7	6.7	6.9	7.7	6.8	7.0
10	8.4	8.0	8.2	8.2	7.5	7.6	7.1	6.7	6.8	8.4	6.8	6.9
11	8.3	8.1	8.2	7.6	7.2	7.4	6.9	6.7	6.8	8.2	7.2	7.9
12	8.2	8.1	8.2	7.4	7.2	7.2	6.8	6.7	6.7	7.6	7.3	7.4
13	8.2	8.0	8.1	7.3	7.0	7.1	6.9	6.7	6.8	7.8	7.3	7.4
14	8.6	7.8	8.1	7.1	6.9	7.0	7.0	6.8	6.9	7.7	7.2	7.4
15	8.2	7.6	7.8	7.0	6.9	7.0	8.6	6.9	7.6	7.3	7.1	7.2
16	8.3	7.6	7.8	7.8	6.9	7.0	8.8	7.3	7.7	7.8	7.0	7.2
17	8.0	7.5	7.6	8.0	6.8	7.7	8.7	6.9	8.0	7.7	7.0	7.5
18	8.0	7.4	7.8	8.1	6.8	7.1	7.9	6.9	7.0	7.7	7.0	7.1
19	8.1	7.6	7.9	8.1	6.8	7.0	7.1	6.8	6.9	7.8	7.0	7.2
20	8.0	7.7	7.8	7.8	6.8	7.5	7.7	6.8	6.9	8.1	7.0	7.3
21	8.0	7.8	7.9	7.7	7.2	7.3	8.0	7.0	7.3	7.8	7.2	7.5
22	8.1	7.8	7.9	8.5	7.2	7.2	8.0	6.9	7.2	7.6	6.9	6.9
23	7.9	7.4	7.6	8.7	7.2	8.2	7.9	7.0	7.6	7.0	6.8	7.0
24	7.8	7.4	7.5	8.5	8.2	8.4	7.6	6.7	6.8	7.8	6.8	7.2
25	8.0	7.1	7.3	8.5	7.3	8.3	7.0	6.7	6.8	7.4	6.8	6.9
26	7.8	7.1	7.2	8.4	7.2	7.6	7.0	6.7	6.8	6.9	6.8	6.8
27	7.9	7.1	7.5	8.6	7.3	8.1	7.2	6.8	6.9	6.9	6.8	6.9
28	8.1	7.7	7.9	8.7	8.0	8.3	7.0	6.7	6.8	7.3	6.8	6.9
29	8.0	7.7	7.8	8.5	7.7	8.4	7.4	6.7	6.8	7.3	7.1	7.2
30	---	---	---	8.4	8.0	8.3	6.9	6.7	6.8	7.3	7.0	7.1
31	---	---	---	8.5	7.8	8.1	---	---	---	7.6	7.0	7.2
Max	8.6	8.1	8.2	8.7	8.2	8.4	8.8	7.8	8.2	8.4	7.3	7.9
Min	7.8	7.1	7.2	7.0	6.8	7.0	6.8	6.7	6.7	6.9	6.6	6.6

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	7.5	7.0	7.3	7.7	7.4	7.6	7.6	7.2	7.2	8.3	7.3	8.1
2	7.7	7.0	7.2	7.5	7.3	7.4	7.3	7.1	7.2	8.2	7.8	8.0
3	7.7	7.1	7.4	7.5	7.2	7.4	7.6	7.1	7.2	8.2	7.8	7.9
4	7.8	7.1	7.4	8.0	7.2	7.4	7.4	7.3	7.3	8.1	7.6	7.7
5	7.7	6.9	7.2	7.9	7.3	7.5	7.3	7.2	7.2	8.1	7.6	8.1
6	7.0	6.6	6.7	7.9	7.3	7.8	7.3	7.1	7.2	8.1	7.4	7.7
7	6.7	6.6	6.6	7.9	7.6	7.7	7.3	7.2	7.2	7.8	7.4	7.6
8	6.9	6.6	6.8	7.8	7.4	7.6	7.8	7.0	7.2	7.6	7.2	7.4
9	7.0	6.8	6.8	7.5	7.3	7.4	7.8	7.1	7.2	7.4	7.2	7.3
10	6.8	6.8	6.8	7.7	7.2	7.3	8.0	7.1	7.5	7.8	7.1	7.2
11	7.1	6.7	7.0	7.5	7.2	7.4	7.9	7.1	7.3	8.1	7.0	7.4
12	7.7	7.0	7.2	7.4	7.2	7.3	8.2	7.5	8.1	7.6	7.3	7.4
13	7.9	7.1	7.4	7.8	7.2	7.4	7.9	7.4	7.8	7.6	7.2	7.3
14	7.6	7.2	7.4	7.8	7.2	7.3	7.9	7.6	7.8	7.4	7.2	7.3
15	7.3	7.2	7.3	7.3	7.2	7.2	7.8	7.3	7.6	7.3	7.2	7.3
16	7.5	7.2	7.2	8.0	7.2	7.2	7.6	7.2	7.3	7.5	7.2	7.3
17	8.1	7.1	7.4	8.1	7.2	7.6	7.8	7.2	7.5	8.1	7.3	7.4
18	8.0	7.3	7.6	8.0	7.3	7.6	7.7	7.2	7.4	8.3	7.7	8.0
19	7.8	7.2	7.4	8.0	7.2	7.4	7.8	7.5	7.6	8.3	8.1	8.2
20	7.7	7.1	7.2	8.2	8.0	8.1	7.9	7.2	7.4	8.2	8.1	8.1
21	7.3	6.9	7.1	8.0	7.4	7.7	7.9	7.7	7.8	8.2	8.0	8.1
22	7.3	6.8	7.0	7.7	7.3	7.5	7.9	7.7	7.8	8.2	8.0	8.0
23	7.1	6.9	7.0	7.6	7.3	7.4	8.0	7.8	7.9	8.1	7.9	8.0
24	7.2	7.0	7.0	7.8	7.2	7.5	8.1	7.8	8.0	8.1	7.8	8.0
25	7.0	7.0	7.0	7.7	7.1	7.3	8.0	7.8	8.0	8.0	7.9	8.0
26	7.8	7.0	7.0	7.8	7.2	7.3	8.0	7.8	7.9	8.0	7.6	7.8
27	7.4	7.0	7.0	7.4	7.2	7.3	8.2	8.0	8.1	7.8	7.4	7.4
28	7.8	7.0	7.1	7.7	7.2	7.3	8.2	7.7	7.9	7.6	7.2	7.4
29	7.7	7.1	7.2	7.4	7.1	7.2	7.8	7.5	7.7	7.5	7.3	7.4
30	7.9	7.3	7.5	7.4	7.1	7.3	7.8	7.4	7.6	7.5	7.2	7.3
31	---	---	---	7.4	7.2	7.3	7.8	7.3	7.6	---	---	---
Max	8.1	7.3	7.6	8.2	8.0	8.1	8.2	8.0	8.1	8.3	8.1	8.2
Min	6.7	6.6	6.6	7.3	7.1	7.2	7.3	7.0	7.2	7.3	7.0	7.2

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	23.9	23.2	23.5	20.1	18.5	19.2	12.7	11.4	12.1	12.9	11.6	12.5
2	24.2	22.8	23.5	19.5	18.2	18.8	12.1	11.1	11.5	11.6	9.0	10.4
3	24.7	23.6	24.0	18.2	17.0	17.5	13.1	12.1	12.6	9.1	6.8	7.8
4	25.4	24.6	25.1	17.3	16.0	16.7	12.3	10.6	11.4	6.8	5.6	6.3
5	25.5	24.7	25.1	17.2	16.2	16.7	10.8	10.2	10.6	7.0	4.5	6.2
6	25.8	25.1	25.4	18.1	16.2	17.4	10.2	9.3	9.8	7.0	5.6	6.1
7	26.4	25.1	25.5	16.7	15.2	15.7	9.5	9.0	9.2	7.5	6.1	6.6
8	27.9	25.2	26.0	15.3	14.1	14.7	10.3	8.5	9.4	8.6	6.5	7.5
9	26.7	24.9	25.8	14.4	13.5	14.0	10.2	9.4	9.8	10.6	8.2	9.4
10	26.1	24.6	25.1	14.8	13.6	14.2	11.5	9.8	10.4	11.6	10.2	11.0
11	25.2	23.8	24.6	13.7	12.7	13.0	12.0	10.9	11.2	11.8	10.6	11.3
12	24.0	22.7	23.2	13.9	12.4	13.0	12.5	11.5	12.0	12.9	11.7	12.5
13	22.8	21.4	22.2	13.6	12.5	13.1	13.4	12.2	12.7	12.7	11.8	12.1
14	22.3	20.7	21.5	14.8	13.2	13.9	14.3	12.9	13.3	11.9	10.9	11.4
15	22.1	21.3	21.7	14.4	13.6	14.1	13.1	12.7	12.8	10.9	9.4	10.0
16	23.2	21.0	21.9	13.6	12.3	12.9	14.1	12.8	13.6	9.4	8.5	8.9
17	23.6	21.6	22.5	12.3	11.2	12.0	12.8	10.2	11.6	8.6	8.1	8.4
18	23.5	22.3	23.0	13.6	11.0	11.9	10.3	9.2	9.8	8.8	8.2	8.4
19	23.8	23.2	23.5	14.0	12.4	13.1	9.4	8.6	9.1	8.7	8.1	8.3
20	23.9	23.3	23.6	14.5	13.0	13.6	10.0	8.6	9.2	8.1	7.0	7.7
21	23.9	22.4	23.1	14.7	13.3	14.0	9.6	8.7	9.2	7.0	5.9	6.4
22	23.7	22.8	23.2	14.8	13.6	14.1	10.7	9.4	9.8	6.6	5.5	6.0
23	24.0	22.9	23.5	14.7	13.3	14.0	11.9	10.0	11.0	8.3	6.1	7.0
24	24.4	23.8	24.1	13.3	12.4	12.7	11.9	11.2	11.6	8.3	7.4	7.8
25	24.3	24.0	24.2	12.5	12.0	12.3	11.5	10.7	11.2	7.8	6.1	7.0
26	24.1	23.8	23.9	13.3	12.2	12.7	10.9	10.5	10.7	7.2	5.6	6.6
27	23.8	23.2	23.6	14.2	13.1	13.7	11.0	9.8	10.4	6.7	4.9	6.2
28	23.2	21.6	22.4	13.6	13.1	13.4	10.9	10.2	10.6	7.2	5.9	6.7
29	21.6	19.2	20.3	13.4	12.7	13.1	12.6	10.8	11.7	8.0	6.3	7.2
30	19.4	18.2	18.8	13.2	12.6	12.9	12.7	12.1	12.4	9.1	7.8	8.5
31	18.9	17.8	18.3	---	---	---	13.0	12.3	12.6	8.4	7.9	8.2
Month	27.9	17.8	23.3	20.1	11.0	14.3	14.3	8.5	11.1	12.9	4.5	8.4

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	10.0	8.1	9.1	11.5	9.5	10.6	16.0	14.4	15.1	20.5	18.7	19.5
2	10.5	9.2	9.7	11.4	10.3	10.8	15.9	15.3	15.8	21.1	19.3	20.1
3	11.7	9.5	10.2	12.5	10.1	11.1	15.3	14.6	14.9	22.1	19.7	20.8
4	11.4	10.2	11.0	13.7	11.8	12.6	16.7	14.8	15.6	22.9	20.5	21.2
5	11.6	10.8	11.4	16.0	13.7	14.7	16.9	15.2	16.1	23.0	21.4	21.9
6	12.9	11.2	12.1	16.1	14.5	15.0	17.6	16.8	17.2	23.5	21.6	22.3
7	13.8	12.9	13.4	15.5	14.9	15.2	17.0	15.4	16.2	23.5	21.5	22.7
8	14.2	12.9	13.5	16.3	14.9	15.6	15.6	15.0	15.3	22.7	21.2	22.0
9	14.1	12.7	13.3	15.0	13.2	14.1	15.8	15.1	15.3	23.0	22.0	22.5
10	13.4	12.2	12.6	14.4	12.3	13.5	17.7	15.5	16.2	23.8	22.1	22.9
11	12.2	11.0	11.7	15.3	12.9	14.2	18.7	16.8	17.8	22.9	21.5	22.1
12	11.8	10.7	11.2	15.1	13.7	14.5	20.7	18.0	19.2	21.5	19.6	20.6
13	13.3	11.8	12.7	15.4	13.7	14.6	20.0	18.4	18.9	19.6	18.6	19.1
14	13.1	12.1	12.6	15.7	14.1	14.7	18.4	16.9	17.6	20.6	17.8	18.9
15	13.0	11.6	12.3	16.9	14.5	15.1	17.1	15.9	16.3	20.3	18.7	19.5
16	12.4	11.9	12.2	16.2	15.1	15.6	16.1	15.2	15.6	21.4	19.7	20.4
17	12.9	11.2	12.2	15.4	13.9	14.4	17.7	15.0	16.2	22.1	20.1	20.8
18	14.3	12.9	13.6	14.0	13.0	13.6	20.1	16.2	17.2	21.0	19.7	20.6
19	13.9	12.9	13.5	16.1	13.6	14.7	19.2	15.7	16.9	21.9	19.9	20.9
20	12.9	11.5	12.4	16.1	15.5	15.8	18.6	16.9	17.8	22.6	21.0	21.7
21	13.0	11.2	11.9	15.8	14.0	14.9	19.4	18.1	18.7	22.8	21.5	22.1
22	11.5	10.5	11.0	16.5	14.5	15.6	18.9	17.9	18.4	23.7	22.2	23.0
23	12.1	10.7	11.5	16.2	14.9	15.4	20.0	18.4	19.0	24.0	22.5	23.1
24	12.2	11.4	11.7	15.2	14.1	14.6	21.3	18.9	19.6	23.5	22.3	22.8
25	12.3	10.4	11.0	14.4	13.0	13.6	22.0	20.2	21.1	23.7	21.8	22.7
26	12.3	10.8	11.7	14.6	12.2	13.5	22.7	18.9	20.2	24.5	22.8	23.5
27	12.2	10.8	11.6	15.5	13.3	14.2	22.6	18.7	20.2	24.5	22.6	23.3
28	10.8	9.3	10.1	16.6	14.6	15.5	21.9	19.7	20.9	23.1	21.7	22.4
29	10.6	7.8	9.5	16.0	14.6	15.3	20.9	19.7	20.4	22.3	21.1	21.6
30	---	---	---	14.6	13.4	14.0	20.4	18.6	19.4	24.6	21.2	22.7
31	---	---	---	14.6	13.0	13.9	---	---	---	25.2	23.4	24.0
Month	14.3	7.8	11.7	16.9	9.5	14.2	22.7	14.4	17.6	25.2	17.8	21.7

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	27.5	22.8	24.7	28.7	27.1	27.8	29.4	27.6	28.5	28.9	28.0	28.4
2	26.4	24.7	25.5	29.4	26.2	27.4	30.7	28.3	29.1	28.1	26.7	27.5
3	26.4	25.0	25.6	28.8	27.2	27.7	30.8	28.2	29.4	28.3	26.6	27.4
4	26.7	24.9	25.7	28.8	27.1	27.8	30.9	29.8	30.3	29.3	27.0	27.7
5	28.4	25.5	26.5	28.3	27.4	27.8	31.6	28.6	29.7	27.9	27.0	27.3
6	30.4	26.3	27.5	27.9	26.8	27.4	31.4	29.4	30.5	27.4	26.6	27.0
7	29.1	27.1	27.9	28.5	26.9	27.7	31.3	30.0	30.6	28.7	26.8	27.3
8	30.6	25.4	27.7	28.5	26.8	27.6	30.9	29.1	29.8	28.9	27.9	28.4
9	31.7	25.0	27.0	28.0	26.8	27.3	30.3	28.9	29.4	28.8	27.7	28.3
10	28.0	25.6	26.5	---	---	---	29.4	28.3	28.8	28.2	27.1	27.7
11	30.3	25.1	27.1	---	---	---	29.6	27.8	28.6	29.1	27.0	27.9
12	29.6	27.4	28.4	---	---	---	29.4	28.0	28.5	28.8	26.9	27.7
13	28.9	27.7	28.2	---	---	---	28.2	26.7	27.4	28.5	26.6	27.4
14	30.1	27.4	28.3	---	---	---	27.9	26.2	26.8	28.8	27.1	27.9
15	28.9	27.1	27.9	29.5	28.2	28.7	28.3	26.9	27.5	29.2	26.8	27.9
16	29.1	26.4	27.3	29.1	27.8	28.3	27.6	26.9	27.2	29.0	26.7	27.9
17	29.6	27.2	28.2	29.1	27.4	28.2	27.9	27.2	27.5	26.7	25.0	25.9
18	29.3	27.1	27.8	29.1	27.9	28.5	28.2	26.8	27.5	26.4	24.3	25.1
19	28.6	26.2	27.4	29.5	28.3	28.9	28.7	27.0	27.8	25.9	24.0	25.0
20	29.0	26.4	27.2	28.9	28.2	28.5	28.8	27.6	28.3	24.7	24.1	24.3
21	27.1	26.4	26.7	29.5	27.8	28.5	28.3	27.6	28.0	24.4	23.2	23.9
22	27.4	25.7	26.5	30.4	28.5	29.2	27.9	27.2	27.6	24.0	23.0	23.3
23	27.4	26.4	26.8	29.8	28.6	29.2	27.8	26.7	27.2	23.5	22.8	23.1
24	29.6	25.9	26.7	29.4	28.0	28.7	28.2	26.9	27.6	22.8	21.2	21.9
25	28.9	26.5	27.2	28.9	28.0	28.5	28.8	27.2	27.9	21.2	20.7	20.9
26	27.4	25.3	26.4	29.3	27.8	28.4	28.6	27.6	28.1	22.1	20.8	21.3
27	27.8	25.8	26.8	29.4	27.3	28.5	28.0	27.4	27.7	22.8	21.5	22.0
28	27.9	26.3	27.1	31.2	27.9	29.1	28.4	27.1	27.6	22.7	21.5	22.1
29	28.6	26.4	27.4	30.8	28.6	29.6	29.2	27.3	28.0	23.1	21.9	22.5
30	28.3	27.4	27.9	30.5	28.4	29.2	29.7	28.1	28.8	23.6	22.4	22.9
31	---	---	---	30.7	27.9	28.9	29.6	28.6	29.1	---	---	---
Month	31.7	22.8	27.1	---	---	---	31.6	26.2	28.4	29.3	20.7	25.6

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	23.9	23.2	23.5	19.5	18.3	18.9	13.0	12.1	12.5	12.7	11.8	12.5
2	24.0	23.1	23.5	19.8	18.2	18.9	12.6	11.6	11.9	11.8	9.1	10.6
3	24.1	23.4	23.9	18.2	17.1	17.7	13.2	12.1	12.6	9.2	7.0	8.0
4	24.8	23.9	24.3	18.2	17.8	18.0	12.3	10.7	11.4	8.6	6.9	7.9
5	25.4	24.5	24.9	18.3	18.1	18.2	11.1	10.3	10.7	8.4	8.0	8.2
6	25.2	24.6	25.0	18.3	17.0	18.0	10.3	9.6	9.8	8.5	7.9	8.3
7	25.1	24.8	24.9	17.1	15.4	16.1	9.6	8.9	9.2	8.7	8.5	8.6
8	25.2	24.8	25.0	15.4	14.2	14.7	9.3	9.1	9.2	8.8	8.7	8.7
9	25.2	25.0	25.1	14.6	14.0	14.3	10.0	9.2	9.4	9.4	8.8	9.0
10	25.2	24.9	25.1	15.8	13.7	14.5	10.7	9.3	10	9.5	9.1	9.2
11	25.2	24.0	24.8	13.7	12.8	13.1	11.5	10.1	10.8	10.7	9.4	9.8
12	24.1	22.8	23.3	13.2	12.5	12.9	12.4	11.3	11.8	11.0	9.8	10.3
13	23.3	22.0	22.4	13.7	12.9	13.5	13.2	12.2	12.4	11.8	10.6	11.2
14	23.4	21.8	22.7	14.2	13.6	13.9	13.1	12.1	12.6	11.4	10.4	10.8
15	23.2	21.7	22.1	14.5	13.7	14.2	13.1	12.6	12.8	10.8	9.7	10.5
16	22.8	21.4	21.9	13.7	12.7	13.1	14.1	12.7	13.6	9.7	8.7	9.1
17	23.0	22.0	22.5	13.0	12.1	12.5	12.8	10.5	11.6	9.2	8.2	8.6
18	23.4	22.4	23.0	13.3	12.3	12.7	10.9	9.6	10.3	8.8	8.2	8.6
19	23.8	23.2	23.5	13.4	12.7	13.0	10.8	10.3	10.6	8.9	8.1	8.6
20	24.0	23.3	23.6	13.7	13.3	13.5	11.6	10.7	11.3	8.1	7.2	7.7
21	23.6	22.7	23.4	13.7	13.5	13.6	11.5	9.3	10.2	7.3	6.3	6.7
22	23.5	23.0	23.3	14.8	13.5	14.0	10.9	9.6	10.3	7.1	5.7	6.6
23	24.1	23.2	23.6	14.6	13.4	14.1	11.6	10.9	11.2	7.4	6.9	7.3
24	24.5	23.8	24.1	13.4	12.5	12.8	11.5	11.2	11.3	7.9	7.3	7.5
25	24.4	24.1	24.3	12.8	12.3	12.5	11.5	11.0	11.3	7.5	6.7	6.9
26	24.2	23.9	24.0	13.2	12.2	12.7	11.4	10.7	11.0	7.3	6.8	7.1
27	23.9	23.5	23.8	14.0	13.2	13.5	10.8	10.6	10.6	7.3	6.8	7.1
28	23.6	21.7	22.6	13.7	13.2	13.5	10.9	10.6	10.8	7.4	6.9	7.2
29	21.7	19.6	20.5	13.4	13.0	13.3	12.3	10.9	11.5	7.9	7.3	7.5
30	19.7	18.4	19.0	13.4	12.8	13.1	12.7	12.0	12.4	9.0	7.9	8.4
31	19.4	17.8	18.5	---	---	---	12.6	12.3	12.5	8.8	8.2	8.4
Month	25.4	17.8	23.3	19.8	12.1	14.5	14.1	8.9	11.2	12.7	5.7	8.6

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	10.0	8.3	9.2	11.3	10.2	10.8	16.1	14.4	15.0	19.6	18.9	19.1
2	9.7	9.5	9.6	11.3	11.0	11.2	15.9	15.2	15.7	19.6	19.2	19.4
3	10.0	9.5	9.8	11.9	10.8	11.4	15.4	14.7	14.9	20.9	19.0	19.4
4	10.1	9.8	10.0	13.7	11.8	12.6	15.0	14.8	14.9	20.2	19.0	19.4
5	11.2	9.9	10.2	14.2	13.7	13.9	16.2	14.9	15.3	20.6	19.1	19.4
6	13.0	10.4	11.9	14.8	13.8	14.2	15.9	14.6	15.2	21.6	19.6	20.6
7	13.7	12.7	13.2	15.4	14.2	14.9	16.4	14.6	15.0	21.2	19.7	20.6
8	13.3	11.5	12.2	16.4	15.0	15.6	15.9	14.8	15.4	21.2	19.7	20.4
9	13.8	11.5	12.2	15.0	13.3	14.2	15.6	14.8	15.2	22.5	20.1	21.3
10	13.0	12.0	12.4	14.3	14.0	14.1	15.6	15.0	15.3	23.5	20.5	21.7
11	12.3	11.1	11.4	14.2	14.0	14.1	16.0	15.4	15.5	23.0	21.8	22.3
12	11.8	10.9	11.4	14.2	14.1	14.1	17.0	15.5	15.9	21.8	20.0	20.8
13	13.1	11.8	12.6	14.6	14.1	14.1	17.2	15.5	15.7	20.1	18.5	19.2
14	13.0	12.1	12.4	14.5	14.2	14.3	17.5	15.6	16.0	19.9	19.1	19.7
15	12.5	12.4	12.5	14.5	14.1	14.2	17.1	15.9	16.3	20.0	19.8	19.9
16	12.6	12.1	12.4	15.7	14.3	15.0	16.9	15.2	15.8	21.2	19.8	20.1
17	12.7	12.4	12.6	15.1	14.0	14.4	16.9	15.3	16.2	21.0	20.0	20.3
18	14.4	12.6	13.6	14.6	13.6	14.3	16.5	16.0	16.2	21.1	19.9	20.5
19	14.0	13.0	13.6	16.2	14.4	15.1	16.4	15.6	15.9	20.7	20.3	20.5
20	13.0	12.3	12.7	16.1	15.6	15.9	18.4	16.0	17.0	22.5	20.3	21.3
21	12.8	11.6	12.0	16.0	14.6	15.7	18.4	17.6	18.1	22.3	21.4	21.8
22	11.7	11.0	11.3	16.4	15.6	15.8	18.7	17.3	18.0	22.1	21.2	21.5
23	11.5	11.2	11.4	16.1	15.1	15.5	18.9	17.9	18.3	22.1	21.5	21.6
24	11.9	11.4	11.6	15.2	14.3	14.7	18.9	17.9	18.6	22.5	21.6	22.1
25	11.8	11.1	11.6	14.6	13.2	13.8	19.1	18.5	18.9	22.3	21.6	22.0
26	12.2	11.7	11.9	14.7	14.0	14.4	19.0	17.4	18.1	22.4	21.6	21.8
27	12.0	11.2	11.7	15.2	13.4	14.2	18.3	17.3	17.7	22.5	21.6	21.9
28	11.2	9.6	10.2	16.6	14.7	15.4	20.3	17.5	18.4	22.4	21.7	22.0
29	10.3	9.8	10.1	15.8	14.7	15.3	20.6	18.1	19.5	22.4	21.2	21.5
30	---	---	---	14.7	13.6	14.1	19.9	18.8	19.1	22.7	21.5	21.9
31	---	---	---	14.5	13.4	14.0	---	---	---	24.0	21.8	22.7
Month	14.4	8.3	11.6	16.6	10.2	14.2	20.6	14.4	16.6	24.0	18.5	20.9

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	23.9	22.5	23.2	27.8	27.0	27.3	29.1	28.2	28.7	28.9	28.0	28.4
2	25.6	22.4	23.9	27.5	27.2	27.4	29.0	28.1	28.7	28.6	27.3	27.9
3	25.0	23.3	24.4	27.5	27.3	27.4	29.0	28.6	28.8	28.3	27.6	28.1
4	26.4	23.7	24.6	28.3	27.2	27.5	29.4	28.9	29.1	28.2	27.9	28.0
5	26.1	24.7	25.4	27.8	27.4	27.6	29.3	28.9	29.0	28.1	27.1	27.4
6	25.6	24.3	24.7	27.7	26.9	27.3	29.3	29.1	29.2	27.4	26.7	27.1
7	24.9	24.4	24.7	27.5	27.2	27.3	29.5	29.2	29.3	27.1	27.0	27.0
8	25.4	24.8	25.0	27.7	27.3	27.4	29.9	29.0	29.3	27.4	27.0	27.1
9	25.7	24.9	25.2	27.3	27.1	27.2	29.5	29.1	29.2	27.3	27.0	27.1
10	25.6	24.9	25.3	27.4	27.1	27.3	29.2	29.0	29.1	27.9	27.2	27.4
11	25.6	24.8	25.2	27.8	27.3	27.5	29.1	28.1	28.7	27.6	27.1	27.3
12	28.3	25.6	27.1	27.7	27.4	27.5	28.8	27.8	28.1	27.4	27.3	27.3
13	28.9	26.4	27.5	28.2	27.5	27.7	28.1	26.6	27.4	27.6	27.3	27.4
14	28.0	27.0	27.5	28.2	27.6	27.8	26.6	26.1	26.3	27.6	27.4	27.5
15	27.5	27.0	27.2	27.9	27.4	27.5	27.4	26.4	26.6	27.6	27.2	27.4
16	27.6	26.8	27.3	28.4	27.5	27.7	27.1	26.8	26.9	27.8	27.4	27.6
17	28.8	26.8	27.5	28.9	27.5	28.2	27.4	26.9	27.1	27.9	26.4	27.3
18	28.0	26.9	27.3	28.9	28.2	28.6	27.7	26.9	27.2	27.1	25.2	26.3
19	27.2	26.8	27.0	29.4	28.3	28.8	27.8	27.3	27.5	26.5	25.0	25.4
20	27.3	26.9	27.0	29.3	28.6	28.9	28.6	27.4	27.8	25.0	24.3	24.5
21	27.0	26.8	26.9	28.8	28.2	28.5	28.4	27.6	28.0	24.5	23.6	24.1
22	26.9	26.6	26.8	29.0	28.3	28.4	27.8	27.3	27.6	24.3	23.5	23.8
23	26.7	26.4	26.6	29.5	28.4	28.7	27.8	26.7	27.2	23.8	22.9	23.3
24	26.6	26.2	26.5	28.9	28.5	28.6	28.2	26.9	27.5	22.9	21.3	22.1
25	26.6	26.4	26.5	29.1	28.3	28.6	28.1	27.6	27.8	21.3	20.8	21.0
26	27.7	26.1	26.7	28.7	28.2	28.4	28.0	27.7	27.8	21.3	20.9	21.1
27	27.9	26.6	26.9	29.1	28.3	28.7	28.0	27.6	27.7	21.6	21.3	21.4
28	28.2	26.6	26.9	28.7	28.3	28.5	27.6	27.5	27.5	21.7	21.4	21.6
29	28.5	27.0	27.5	28.9	28.5	28.8	27.7	27.5	27.6	21.6	21.5	21.5
30	28.3	27.3	27.8	28.9	28.4	28.7	28.0	27.6	27.7	21.9	21.6	21.6
31	---	---	---	29.1	28.0	28.5	28.5	27.7	27.9	---	---	---
Month	28.9	22.4	26.2	29.5	26.9	28.0	29.9	26.1	28.0	28.9	20.8	25.5

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	7.7	6.0	6.9	10.7	8.6	9.7	10.9	9.7	10.1	11.4	8.1	10.3
2	7.6	5.9	6.7	10.2	8.2	8.8	10.7	9.8	10.1	10.4	9.1	10
3	9.7	1.2	6.6	9.5	8.2	8.8	9.9	9.0	9.6	11.4	10.0	10.8
4	8.9	5.4	7.5	10.6	8.0	9.3	9.7	8.9	9.3	13.0	9.3	10.8
5	8.1	6.2	7.4	11.5	7.8	10.1	10.1	8.9	9.5	15.8	9.7	11.7
6	8.1	4.8	7.1	10.3	6.7	7.8	10.2	9.6	9.9	12.6	8.7	10.4
7	8.9	2.4	7.0	9.4	8.4	8.9	10.2	9.0	9.9	13.5	8.8	11.1
8	9.3	7.1	8.1	9.8	8.6	9.2	10.5	7.0	9.8	15.9	7.7	11.6
9	8.6	5.0	7.3	10.5	3.5	9.4	11.4	7.2	10.3	12.9	9.0	11.1
10	9.0	4.5	6.4	9.3	8.1	8.9	10.9	8.5	10.3	12.9	8.3	11.3
11	7.9	5.2	6.6	10.2	7.4	9.4	10.8	7.9	10.1	11.8	8.7	9.9
12	8.0	5.8	6.8	10.5	0.1	7.1	10.3	7.9	9.9	11.2	9.4	10.4
13	8.4	6.8	7.5	10.4	8.0	10	10.3	7.4	9.8	13.7	9.4	10.9
14	9.6	5.7	7.8	10.3	6.5	9.5	10.5	6.9	9.6	11.3	10.2	10.7
15	9.2	5.9	8.3	9.6	8.7	9.2	10.1	9.0	9.8	11.3	10.1	10.6
16	8.7	3.3	7.0	9.5	8.7	9.1	9.7	9.2	9.4	10.6	9.4	10.1
17	8.8	3.8	7.4	9.9	8.6	9.4	10.1	8.9	9.4	10.6	9.8	10.1
18	8.4	2.2	6.4	10.0	8.8	9.6	10.8	8.7	10.1	10.8	9.6	10.2
19	7.7	3.2	6.5	10.2	8.2	9.5	11.7	5.0	9.4	10.5	8.8	10.3
20	8.2	5.2	6.7	11.0	8.4	10.0	12.4	8.4	10.9	10.7	9.8	10.3
21	8.4	4.8	7.2	10.5	9.2	9.9	12.2	10.4	11.2	12.0	10.4	11.1
22	8.9	3.0	6.4	9.7	8.2	8.7	11.6	10.3	10.7	12.4	11.3	11.7
23	8.2	6.0	7.3	9.2	8.4	8.7	11.0	9.8	10.4	12.6	11.5	12.0
24	7.7	5.4	6.8	9.5	8.7	9.1	10.9	9.6	10.3	12.4	10.9	11.9
25	7.8	5.1	6.9	9.6	9.1	9.3	11.6	10.3	10.9	13.3	10.8	11.9
26	7.3	4.9	6.5	9.4	7.4	9.0	11.4	10.0	10.5	14.3	10.7	12.5
27	7.2	3.5	6.4	9.5	8.7	9.1	10.7	7.7	9.8	14.4	11.7	13.3
28	7.9	6.5	7.2	9.7	8.7	9.3	11.3	8.7	10.2	13.7	11.0	13.0
29	9.1	7.6	8.2	11.0	7.7	9.5	10.1	7.5	9.1	13.6	11.3	12.6
30	9.6	8.2	8.8	11.0	9.6	10.2	10.3	8.3	9.6	11.7	9.9	11.0
31	10.2	5.7	9.1	---	---	---	10.4	7.5	9.3	11.6	11.2	11.5
Month	10.2	1.2	7.2	11.5	0.1	9.2	12.4	5.0	10.0	15.9	7.7	11.1

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	11.4	10.4	11.0	13.5	10.4	11.8	10.2	9.2	9.7	---	---	---
2	12.3	8.4	10.4	13.3	12.0	12.6	10.2	7.6	9.5	10.8	8.8	9.9
3	13.6	8.2	11.8	13.2	11.9	12.5	10.1	8.7	9.3	11.6	8.8	9.8
4	14.2	9.0	12.2	12.3	10.6	11.8	12.1	8.7	10.2	11.1	7.7	9.4
5	14.9	9.5	12.8	12.8	9.0	10.8	9.4	6.0	8.2	11.4	9.0	10.0
6	11.7	10.2	10.9	13.3	10.6	11.7	10.6	7.9	9.4	13.0	9.1	10.7
7	11.3	3.5	9.9	12.2	9.6	11.4	9.8	8.6	9.2	11.1	6.4	9.2
8	11.8	3.6	10.8	9.7	8.5	9.2	10.2	8.6	9.2	10.8	6.0	8.3
9	11.6	9.4	11.0	11.6	8.8	9.9	9.8	6.2	8.6	9.9	7.0	9.0
10	10.6	9.1	9.9	12.3	9.2	10.7	8.4	5.7	7.4	12.5	7.7	9.9
11	10.6	8.2	9.9	12.3	7.0	10.8	10.4	4.3	8.5	10.0	8.6	9.2
12	10.6	8.9	9.8	9.9	6.6	8.9	9.4	7.7	8.3	9.0	7.5	8.2
13	9.8	7.4	9.3	10.3	7.5	9.2	9.4	7.1	7.8	10.1	7.6	8.8
14	10.6	8.9	9.7	11.4	7.2	9.2	8.8	6.7	7.6	13.6	6.3	9.7
15	11.8	9.6	10.6	11.0	6.0	9.2	11.2	8.2	9.8	11.7	4.1	8.4
16	11.1	9.7	10.6	9.9	8.1	9.2	10.5	8.5	9.3	10.4	4.8	7.8
17	11.6	9.5	10.5	11.4	9.4	10.3	10.9	8.8	9.7	14.5	7.9	10.7
18	10.2	8.6	9.2	12.5	10.4	11.2	14.1	8.1	10.6	11.6	6.8	9.3
19	10.8	8.6	9.7	11.4	7.5	10.1	11.7	6.6	8.8	11.9	7.3	9.6
20	10.7	8.9	9.8	9.7	7.6	8.8	9.3	7.1	8.4	10.9	6.9	9.6
21	11.0	9.3	10	11.5	8.8	9.7	10.3	7.8	8.8	9.2	1.6	8.1
22	11.2	9.4	10.4	12.2	7.0	9.8	10.0	8.0	9.2	11.2	8.2	9.9
23	12.9	7.8	10.6	12.6	9.6	10.8	10.1	8.4	9.3	10.4	8.5	9.4
24	11.1	9.6	10.2	11.1	10.1	10.6	11.4	8.2	9.4	9.2	7.7	8.4
25	12.2	10.1	10.6	13.0	10.0	10.8	12.8	5.4	8.5	9.2	7.6	8.4
26	13.3	9.1	10.7	11.8	9.9	10.7	---	---	---	10.0	7.2	8.5
27	10.2	8.9	9.6	11.9	9.3	10.4	---	---	---	9.3	4.8	7.9
28	11.5	9.7	10.6	11.6	9.4	10.4	---	---	---	7.0	4.2	6.0
29	12.5	10.3	11.5	10.4	9.5	9.8	---	---	---	8.6	5.9	7.2
30	---	---	---	9.9	9.1	9.4	---	---	---	10.9	1.8	7.9
31	---	---	---	11.2	8.9	9.9	---	---	---	10.1	5.1	8.5
Month	14.9	3.5	10.5	13.5	6.0	10.4	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
June			July			August			September			
1	9.5	2.7	6.8	---	---	---	9.1	3.2	5.6	11.1	6.6	8.0
2	9.5	2.2	7.1	---	---	---	7.9	3.7	5.5	9.8	5.7	7.7
3	9.8	4.2	7.6	---	---	---	10.2	2.6	6.1	10.1	5.4	8.1
4	9.6	2.8	7.4	---	---	---	11.7	2.6	7.6	9.9	3.0	6.7
5	9.1	3.3	6.6	---	---	---	13.0	0.0	4.2	6.9	5.9	6.3
6	9.2	6.3	7.6	---	---	---	9.8	2.9	7.2	5.9	4.0	5.1
7	8.3	3.5	5.7	---	---	---	10.3	6.5	8.1	10.0	4.8	6.7
8	8.6	2.6	5.1	---	---	---	7.2	3.7	5.8	9.3	6.7	8.1
9	6.1	0.0	3.3	---	---	---	7.5	5.8	6.8	9.0	4.7	6.5
10	5.7	0.0	1.9	---	---	---	7.1	3.8	6.1	8.6	4.4	6.0
11	8.1	0.0	4.2	---	---	---	9.8	2.3	5.9	13.1	4.9	8.8
12	7.5	5.3	6.4	---	---	---	8.2	0.3	5.6	11.7	8.0	9.5
13	7.2	5.2	6.5	---	---	---	5.7	2.3	4.4	9.9	3.9	7.8
14	8.3	2.0	6.1	---	---	---	6.4	1.5	4.3	9.8	2.2	5.7
15	9.0	2.1	5.4	10.3	7.6	8.5	9.7	1.7	5.7	9.4	0.4	4.1
16	11.0	2.9	5.8	10.2	6.6	7.6	6.6	0.7	4.9	8.7	5.1	7.4
17	11.2	0.1	5.7	8.0	5.9	7.4	7.8	1.5	5.5	8.3	5.4	6.4
18	9.4	2.7	6.7	7.9	5.0	6.4	7.8	1.7	5.7	8.2	5.6	6.7
19	8.5	2.6	6.6	7.7	4.5	6.4	6.3	0.0	3.6	7.8	6.3	7.1
20	9.6	0.9	6.8	7.2	4.0	6.0	6.3	0.3	4.2	7.4	6.1	6.7
21	9.3	0.8	5.7	7.5	3.5	5.7	6.2	3.8	5.2	9.1	5.9	7.4
22	9.2	3.5	7.0	10.3	0.3	5.6	7.4	4.9	6.1	8.0	6.3	7.2
23	8.7	0.2	6.3	7.7	3.3	5.9	8.0	6.3	6.9	7.8	6.3	7.0
24	10.4	2.5	7.1	8.8	1.9	5.7	8.8	3.2	6.4	7.4	6.3	7.1
25	9.1	5.1	7.5	8.8	1.4	6.1	8.3	3.0	5.8	7.6	7.0	7.2
26	10.3	4.8	6.9	10.6	3.4	7.4	8.6	2.9	6.0	8.6	6.4	7.4
27	7.9	5.6	6.6	8.2	2.0	5.7	7.8	4.3	6.5	9.6	4.1	7.2
28	10.3	5.5	7.6	10.3	2.4	5.6	8.9	1.8	6.3	8.8	5.2	7.1
29	8.0	5.8	7.0	8.6	4.1	6.0	11.2	4.9	7.3	9.4	2.8	6.3
30	9.4	6.5	7.5	8.0	2.4	5.1	11.6	5.5	8.4	8.2	4.6	6.5
31	---	---	---	6.2	1.3	3.9	10.9	3.3	7.6	---	---	---
Month	11.2	0.0	6.3	---	---	---	13.0	0.0	6.0	13.1	0.4	7.0

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	8.0	3.7	5.5	10.0	6.4	8.4	10.7	9.2	9.8	10.4	6.2	8.5
2	8.0	2.2	6.2	9.3	7.9	8.3	10.2	8.0	9.6	10.2	7.6	9.3
3	7.6	1.5	5.6	8.6	8.0	8.3	10.1	9.2	9.8	10.9	9.0	10.0
4	6.7	2.2	4.6	8.4	6.0	7.7	9.8	6.4	9.0	9.0	5.7	7.0
5	6.0	0.0	3.4	6.8	5.5	6.2	9.9	5.9	8.3	7.3	2.9	5.2
6	6.8	0.0	2.6	8.1	5.5	6.7	10.2	7.1	9.4	7.1	2.5	5.1
7	6.1	0.2	3.4	9.1	6.0	8.2	7.8	4.6	6.4	5.3	1.7	3.9
8	6.6	0.6	3.6	9.5	6.7	8.7	9.1	3.8	6.2	4.2	1.2	2.9
9	4.5	0.5	2.7	9.3	6.4	8.7	9.0	3.9	7.2	7.7	3.0	4.8
10	3.2	0.0	2.2	9.2	6.0	8.3	10.1	0.0	7.7	8.8	4.5	7.0
11	7.0	0.0	4.0	9.6	4.5	8.8	9.2	5.0	7.5	8.0	6.3	7.0
12	7.4	5.0	6.2	10.1	1.4	6.5	10.3	6.3	8.4	8.1	5.8	6.6
13	7.4	5.5	6.6	9.8	7.0	8.9	10.0	6.1	7.8	9.9	5.9	7.8
14	7.0	0.1	4.0	9.2	5.7	8.4	9.1	4.2	6.0	9.6	7.0	8.0
15	8.4	1.3	5.0	9.5	8.3	9.0	10.2	5.9	8.4	10.1	6.9	8.0
16	7.8	2.2	5.0	9.4	8.7	9.0	10.0	8.4	9.4	9.9	6.7	9.1
17	7.9	2.4	5.5	9.8	8.6	9.1	9.8	5.4	8.9	10.2	6.8	9.0
18	8.5	1.6	5.6	9.6	5.4	8.6	9.7	5.6	8.4	10.1	6.4	9.1
19	7.6	3.4	6.1	10.1	5.4	8.4	8.5	2.2	4.4	10.2	1.8	7.6
20	8.2	3.8	5.5	8.2	6.2	7.4	8.5	2.6	7.3	10.6	9.3	10.1
21	7.8	2.8	5.2	8.7	6.4	7.9	10.9	8.0	9.5	11.0	8.6	10.1
22	7.6	2.3	5.2	8.7	7.4	8.2	10.3	9.4	10.0	11.0	4.9	8.7
23	8.2	2.7	6.1	9.2	8.2	8.7	10.1	7.5	9.2	10.5	7.5	9.3
24	7.8	2.3	5.6	9.4	8.0	8.9	10.3	6.4	9.2	11.5	5.0	8.5
25	7.5	4.8	6.7	9.4	6.9	8.7	10.8	8.2	9.9	11.6	6.7	10.2
26	7.3	4.4	6.4	9.2	7.8	8.6	10.4	9.0	10.0	10.7	6.2	9.2
27	6.8	3.1	5.3	9.4	7.9	8.7	9.7	7.6	9.1	11.5	4.9	9.8
28	7.6	3.8	6.8	9.7	7.9	9.2	8.9	5.8	7.9	10.4	3.8	8.1
29	8.6	6.4	7.7	10.0	7.3	9.3	9.6	6.2	8.4	11.2	5.8	8.7
30	9.7	6.0	7.9	10.1	9.2	9.7	9.5	6.2	8.3	10.9	5.4	9.6
31	9.4	5.1	8.5	---	---	---	9.6	6.2	8.6	10.8	3.3	8.1
Month	9.7	0.0	5.3	10.1	1.4	8.4	10.9	0.0	8.4	11.6	1.2	7.9

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	11.0	6.2	9.6	10.8	0.2	6.6	10.2	8.0	9.4	---	---	---
2	9.9	1.5	6.8	8.9	0.1	4.8	10.4	7.5	9.3	---	---	---
3	10.3	0.4	5.7	13.0	4.3	9.6	9.8	7.6	9.2	---	---	---
4	11.2	2.2	7.2	12.2	7.5	10.6	9.6	6.2	8.0	---	---	---
5	9.9	3.1	6.7	10.7	6.0	9.1	7.9	2.5	6.4	---	---	---
6	10.5	5.2	7.8	9.6	4.5	7.2	6.8	2.4	4.6	---	---	---
7	10.6	0.9	8.0	11.3	2.3	8.6	8.9	2.2	3.6	---	---	---
8	9.4	0.9	6.6	9.4	4.7	8.7	10.4	2.8	7.4	---	---	---
9	7.0	2.9	4.5	12.3	8.0	9.4	8.6	0.7	3.8	---	---	---
10	10.0	2.4	5.9	9.8	5.7	7.3	5.6	0.2	2.2	---	---	---
11	9.2	2.7	6.2	7.0	0.6	4.9	3.7	0.2	1.9	---	---	---
12	9.8	1.9	6.9	4.8	1.9	3.9	2.2	0.1	1.1	---	---	---
13	9.6	4.6	7.9	---	---	---	3.8	1.2	2.2	---	---	---
14	9.9	7.0	8.6	---	---	---	5.3	1.8	3.5	---	---	---
15	8.7	6.7	8.3	---	---	---	11.0	2.1	7.5	---	---	---
16	10.8	6.5	8.8	---	---	---	11.2	6.9	9.1	---	---	---
17	9.6	6.5	8.0	---	---	---	10.8	1.0	7.6	---	---	---
18	10.1	6.9	8.7	---	---	---	9.0	1.0	2.9	---	---	---
19	10.6	7.5	9.3	10.4	1.5	5.5	4.7	0.5	2.7	---	---	---
20	10.1	6.1	9.0	9.6	3.5	8.1	7.8	0.1	3.1	---	---	---
21	10.4	9.0	9.7	9.1	6.3	7.5	8.1	1.0	4.9	---	---	---
22	10.3	8.9	9.7	12.1	6.2	7.0	8.7	0.7	4.7	6.8	1.1	2.5
23	9.6	2.9	7.7	12.4	6.0	10.5	8.3	1.6	6.2	3.1	0.1	1.8
24	9.7	6.8	8.0	11.3	10.1	10.7	7.2	0.2	2.1	7.2	0.1	3.3
25	10.7	3.7	7.1	11.1	6.0	10	3.8	0.1	1.3	6.0	0.1	1.8
26	9.9	1.8	6.3	11.5	6.3	8.3	---	---	---	1.2	0.1	0.3
27	10.2	5.0	8.0	11.3	6.3	9.5	---	---	---	0.1	0.1	0.1
28	11.5	8.2	10.3	11.7	8.9	10.1	---	---	---	6.1	0.1	2.6
29	11.1	4.6	8.9	10.3	8.1	9.8	---	---	---	6.2	1.7	5.2
30	---	---	---	9.9	9.2	9.6	---	---	---	6.3	0.1	2.5
31	---	---	---	10.9	8.0	9.6	---	---	---	7.5	0.1	3.5
Month	11.5	0.4	7.8	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
June			July			August			September			
1	6.8	0.8	3.8	6.3	2.1	4.1	2.4	0.0	0.5	9.5	1.1	5.5
2	7.2	0.1	3.3	3.9	0.0	1.8	---	---	---	8.3	0.5	4.1
3	5.0	0.1	1.3	1.2	0.0	0.1	---	---	---	7.5	0.3	4.1
4	6.5	0.1	1.6	6.4	0.0	0.7	---	---	---	4.3	0.2	1.9
5	6.6	1.4	3.9	3.9	0.0	0.8	---	---	---	4.9	1.0	3.9
6	3.7	0.0	0.9	5.5	0.5	3.0	---	---	---	5.2	2.3	3.9
7	0.0	0.0	0.0	5.1	0.2	2.5	0.4	0.0	0.0	3.0	0.5	2.1
8	1.0	0.0	0.1	5.6	0.0	2.0	4.5	0.0	0.1	1.8	0.0	1.1
9	2.4	0.0	0.2	2.3	0.0	0.8	3.3	0.0	0.6	0.8	0.0	0.2
10	0.0	0.0	0.0	4.8	0.0	1.3	3.9	0.0	1.1	3.1	0.0	0.5
11	1.0	0.0	0.1	2.8	0.1	0.5	1.5	0.0	0.2	5.8	0.0	1.5
12	6.5	0.1	2.4	1.6	0.1	0.2	4.2	0.9	2.3	2.0	0.0	0.8
13	7.4	0.3	3.9	2.8	0.1	1.0	5.4	0.5	2.9	1.8	0.0	0.6
14	5.1	0.0	2.3	1.9	0.0	0.4	5.1	1.6	3.4	1.4	0.0	0.2
15	2.6	0.0	1.1	0.2	0.0	0.0	5.7	0.3	2.5	1.0	0.0	0.2
16	3.3	0.8	1.8	5.7	0.0	0.6	3.8	0.0	1.7	1.8	0.0	0.2
17	9.8	0.6	3.9	6.7	0.0	2.6	6.5	0.0	2.8	7.0	0.0	2.0
18	8.0	1.5	5.0	5.4	0.0	2.2	5.6	1.0	2.8	8.2	3.1	5.7
19	6.8	0.2	3.5	5.8	0.0	1.1	5.6	0.1	3.0	8.2	5.7	7.2
20	6.0	0.0	1.0	7.4	3.4	5.9	6.1	0.0	2.1	7.8	6.7	7.2
21	0.5	0.0	0.0	6.7	0.1	4.6	6.4	3.0	5.1	9.3	6.4	7.6
22	0.1	0.0	0.0	4.6	0.0	1.2	7.0	4.6	5.9	8.9	6.9	7.5
23	0.1	0.0	0.0	3.4	0.0	0.5	8.1	5.5	6.4	8.1	6.0	7.3
24	1.8	0.0	0.2	6.0	0.0	2.6	8.9	4.0	6.3	7.8	6.0	7.4
25	0.2	0.0	0.0	4.2	0.0	0.8	6.4	2.7	4.8	8.0	7.4	7.7
26	6.2	0.0	0.9	5.3	0.0	0.3	5.4	2.7	4.5	8.0	6.2	7.1
27	4.5	0.0	0.8	2.1	0.0	0.4	7.0	3.9	6.1	6.7	4.7	5.4
28	6.4	0.0	0.7	5.4	0.0	0.5	6.3	3.0	4.6	5.5	2.2	4.0
29	5.3	0.1	1.6	0.6	0.0	0.1	3.3	0.8	2.3	3.8	1.9	2.7
30	6.0	0.3	3.8	1.8	0.0	0.2	2.8	0.1	1.6	3.2	0.4	1.6
31	---	---	---	3.2	0.0	0.8	2.8	0.0	0.2	---	---	---
Month	9.8	0.0	1.6	7.4	0.0	1.4	---	---	---	9.5	0.0	3.7

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	100	77	89	127	100	115	110	100	105	118	84	106
2	98	76	86	118	97	105	109	100	103	103	92	99
3	128	15	86	110	94	102	105	94	101	105	95	100
4	117	71	98	118	91	105	99	93	95	115	82	96
5	106	82	97	129	88	113	101	90	96	137	87	103
6	108	63	94	115	77	90	101	95	98	113	76	92
7	119	32	92	105	94	99	100	88	96	119	77	98
8	126	94	108	108	95	101	104	69	96	143	73	105
9	116	66	98	112	37	101	111	71	101	123	84	107
10	122	60	86	100	89	96	110	84	103	126	82	111
11	105	69	88	108	78	99	112	80	103	118	87	100
12	103	75	87	111	1	75	108	82	103	115	96	107
13	106	86	95	110	84	105	110	77	103	139	96	110
14	120	70	97	111	70	103	114	73	102	113	101	106
15	115	74	104	104	94	99	108	95	103	110	98	102
16	110	42	88	101	91	96	103	97	101	101	89	96
17	114	48	95	103	88	96	100	91	97	100	93	95
18	109	28	82	103	93	99	107	86	99	103	90	96
19	100	41	84	108	85	100	112	48	91	100	82	97
20	107	67	87	117	89	106	118	81	105	100	92	96
21	109	62	92	113	98	106	116	101	108	108	95	100
22	115	39	83	105	89	95	113	101	105	110	100	104
23	107	78	94	100	92	96	111	97	104	117	103	109
24	101	70	89	101	93	96	112	98	106	115	100	110
25	102	66	90	100	95	98	116	105	109	119	98	108
26	95	64	85	100	77	95	112	99	104	124	97	111
27	93	45	82	104	94	99	107	76	96	122	106	117
28	100	83	91	104	93	100	113	85	101	123	98	115
29	112	93	101	115	81	100	101	78	93	121	106	115
30	114	97	105	114	102	107	107	86	99	113	93	105
31	121	66	106	---	---	---	109	78	97	109	104	107
Month	128	15	92	129	1	100	118	48	101	143	73	104

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	108	99	105	127	98	113	107	95	101	---	---	---
2	121	82	101	128	113	120	109	80	101	127	101	115
3	133	80	115	127	111	120	104	91	97	137	101	114
4	141	89	121	122	108	117	130	92	106	134	92	111
5	148	96	128	135	90	111	100	64	87	138	107	119
6	120	103	113	140	108	121	115	84	101	156	108	128
7	120	37	104	127	100	119	105	90	97	134	77	111
8	124	38	113	102	86	95	106	89	96	129	70	98
9	122	97	114	118	89	100	101	64	88	119	83	107
10	111	95	103	122	93	106	89	59	78	153	92	120
11	108	83	99	125	73	108	115	46	92	122	103	110
12	104	89	98	103	68	91	104	86	93	104	87	95
13	100	77	95	106	79	95	106	78	86	117	87	100
14	109	90	99	120	76	96	96	73	83	156	73	109
15	121	98	108	116	64	95	121	88	104	134	48	96
16	113	98	107	105	85	97	111	88	97	125	56	92
17	113	98	105	117	96	106	118	91	103	172	93	126
18	108	89	96	126	104	113	153	87	115	136	82	110
19	113	89	101	116	80	104	131	71	96	145	87	115
20	108	91	99	104	81	93	104	78	93	132	83	117
21	109	94	99	121	90	100	117	87	99	112	20	98
22	106	92	99	132	74	104	113	89	103	138	99	121
23	126	74	102	133	100	114	116	94	105	129	104	116
24	109	93	99	115	104	110	131	92	107	114	95	104
25	115	94	100	131	102	109	148	63	100	114	93	102
26	127	89	104	123	96	108	---	---	---	125	89	106
27	100	86	93	126	95	108	---	---	---	115	60	98
28	110	92	100	125	98	110	---	---	---	86	52	73
29	118	94	107	111	101	104	---	---	---	105	72	87
30	---	---	---	103	94	97	---	---	---	138	22	99
31	---	---	---	115	90	101	---	---	---	130	63	108
Month	148	37	104	140	64	106	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
June			July			August			September			
1	128	35	87	---	---	---	130	46	80	160	93	114
2	125	28	92	---	---	---	115	53	79	136	79	107
3	129	55	99	---	---	---	149	37	88	142	77	112
4	127	36	96	---	---	---	170	38	110	142	42	93
5	124	43	87	---	---	---	195	0	62	97	82	89
6	127	85	103	---	---	---	145	42	106	83	55	71
7	112	47	77	---	---	---	152	96	119	142	66	94
8	122	34	70	---	---	---	107	54	85	132	95	115
9	86	0	46	---	---	---	109	84	98	128	67	91
10	78	0	26	---	---	---	103	54	88	122	61	85
11	116	0	58	---	---	---	144	33	85	182	67	123
12	106	74	89	---	---	---	120	4	81	166	113	132
13	101	72	90	---	---	---	82	32	62	138	55	108
14	118	28	85	---	---	---	91	21	60	139	31	80
15	125	29	74	144	106	119	138	24	81	135	6	58
16	155	39	80	143	91	105	93	10	69	122	73	103
17	159	1	79	111	82	102	110	21	78	112	72	86
18	133	37	92	110	69	89	111	24	80	112	73	88
19	115	36	91	108	62	89	90	0	50	106	85	95
20	135	12	92	101	56	84	90	4	61	98	82	89
21	125	11	77	106	50	80	88	54	75	120	78	98
22	126	47	95	148	4	79	104	69	86	105	81	91
23	118	3	85	109	46	83	114	88	98	101	81	91
24	148	33	96	125	27	80	126	45	91	94	80	89
25	125	69	102	124	20	86	119	43	83	94	86	89
26	141	64	93	150	47	104	123	41	85	108	80	91
27	109	75	90	116	28	81	110	59	92	121	51	90
28	143	75	104	148	35	80	126	25	89	111	66	89
29	111	81	97	123	58	87	161	69	104	118	36	79
30	132	89	105	116	34	73	168	78	121	103	59	83
31	---	---	---	91	19	57	158	47	109	---	---	---
Month	159	0	85	---	---	---	195	0	86	182	6	94

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	104	48	72	118	77	100	113	96	103	107	65	88
2	104	29	79	111	94	99	106	83	100	101	76	93
3	100	20	73	101	93	96	107	96	102	101	82	94
4	88	29	60	99	71	90	100	65	92	82	54	66
5	79	0	45	81	65	74	99	60	83	70	28	49
6	89	0	35	94	66	79	101	70	93	68	24	48
7	81	3	46	102	70	93	76	45	62	51	16	38
8	88	8	48	105	74	95	89	37	60	41	12	28
9	60	7	36	102	70	95	88	38	70	75	29	47
10	43	0	30	100	68	91	100	0	76	87	44	69
11	92	0	53	101	47	93	94	51	76	80	63	70
12	96	66	81	106	15	69	108	65	87	82	58	67
13	95	71	84	103	75	95	105	64	82	101	60	80
14	89	1	51	99	61	91	96	44	64	98	71	81
15	106	17	63	103	90	97	108	63	89	98	70	81
16	98	28	63	100	92	96	106	90	100	96	65	87
17	101	31	70	102	91	95	101	55	92	96	66	86
18	110	21	72	101	57	90	96	56	84	97	61	86
19	98	44	78	106	57	89	86	22	45	96	17	72
20	107	49	72	89	67	81	88	27	75	99	87	94
21	101	36	67	94	69	85	106	81	95	101	78	92
22	98	30	67	96	80	90	103	93	100	100	45	80
23	107	35	79	101	90	95	103	76	94	97	70	86
24	103	30	73	100	86	95	105	65	94	107	47	79
25	98	63	88	99	73	92	109	84	101	105	61	93
26	95	58	83	97	84	92	106	92	101	98	56	84
27	88	40	69	103	86	94	97	76	91	105	45	91
28	96	49	86	104	85	99	90	58	79	96	35	75
29	106	78	95	106	78	99	98	64	85	105	55	81
30	116	73	95	106	97	103	98	64	86	105	52	92
31	110	62	100	---	---	---	100	64	89	101	32	77
Month	116	0	68	118	15	92	113	0	85	107	12	76

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	107	59	92	105	2	64	108	82	98	---	---	---
2	96	15	66	88	1	48	111	80	99	---	---	---
3	101	4	56	127	42	94	104	79	96	---	---	---
4	109	22	70	123	74	106	99	65	84	---	---	---
5	97	30	66	109	63	93	84	27	67	---	---	---
6	109	51	80	100	47	75	73	26	50	---	---	---
7	113	10	85	118	24	90	95	24	39	---	---	---
8	98	10	69	100	49	90	111	30	79	---	---	---
9	73	30	47	127	83	97	91	8	40	---	---	---
10	104	25	62	102	59	76	61	2	24	---	---	---
11	94	27	63	73	6	51	40	2	21	---	---	---
12	100	19	69	51	20	41	24	1	12	---	---	---
13	98	47	81	---	---	---	42	13	25	---	---	---
14	102	71	89	---	---	---	58	20	39	---	---	---
15	90	70	86	---	---	---	119	24	81	---	---	---
16	110	68	91	---	---	---	120	76	96	---	---	---
17	100	68	84	---	---	---	115	11	82	---	---	---
18	107	72	91	---	---	---	96	11	31	---	---	---
19	111	78	98	109	16	58	51	5	29	---	---	---
20	103	63	93	103	38	87	87	1	34	---	---	---
21	104	92	97	97	68	81	91	11	55	---	---	---
22	101	88	95	132	67	76	98	8	52	83	14	31
23	95	29	77	131	65	111	95	18	70	38	1	22
24	95	68	79	118	104	110	82	2	24	88	1	41
25	103	37	70	115	62	102	44	1	15	73	1	21
26	97	18	62	121	66	88	---	---	---	15	1	3
27	100	50	79	120	66	98	---	---	---	1	1	1
28	109	78	99	126	94	107	---	---	---	75	1	32
29	105	44	84	109	87	104	---	---	---	75	21	63
30	---	---	---	104	95	99	---	---	---	77	1	30
31	---	---	---	112	82	98	---	---	---	94	1	44
Month	113	4	79	---	---	---	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11 NEAR FLANNER BEACH, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
June			July			August			September			
1	86	10	47	88	29	57	35	0	7	136	16	79
2	94	1	42	55	0	25	---	---	---	117	7	58
3	65	1	17	17	0	2	---	---	---	107	4	58
4	86	1	20	90	0	10	---	---	---	62	3	27
5	87	18	52	55	0	11	---	---	---	69	14	55
6	48	0	11	76	7	41	---	---	---	72	32	54
7	0	0	0	71	3	35	6	0	0	42	7	29
8	13	0	0	78	0	28	66	0	1	25	0	16
9	32	0	3	32	0	12	48	0	9	11	0	3
10	0	0	0	67	0	19	57	0	17	44	0	7
11	13	0	1	39	1	6	22	0	2	82	0	21
12	91	1	33	23	1	3	60	13	33	29	0	11
13	104	4	53	40	1	14	76	7	41	26	0	8
14	71	0	33	27	0	6	71	22	48	20	0	2
15	36	0	15	3	0	0	81	4	34	14	0	2
16	45	11	25	79	0	8	53	0	23	26	0	3
17	137	8	54	95	0	37	91	0	39	96	0	28
18	111	21	69	76	0	31	80	14	40	114	44	79
19	93	3	48	82	0	15	80	1	42	111	79	98
20	82	0	14	104	48	83	88	0	30	104	90	96
21	7	0	0	94	1	64	92	43	73	123	84	101
22	1	0	0	65	0	17	99	65	83	118	90	99
23	1	0	0	49	0	7	115	77	90	105	78	94
24	24	0	2	85	0	37	127	57	90	98	76	94
25	3	0	0	60	0	11	91	38	68	99	91	95
26	86	0	12	75	0	5	77	39	64	99	77	88
27	62	0	12	30	0	6	99	55	86	83	58	67
28	90	0	10	76	0	7	89	42	65	69	28	50
29	75	1	23	9	0	1	47	11	33	49	24	35
30	84	4	53	26	0	3	40	1	22	41	5	20
31	---	---	---	46	0	11	40	0	4	---	---	---
Month	137	0	22	104	0	20	---	---	---	136	0	49