

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9

LOCATION.--Lat. 34°56'54", long. 76°48'36", Craven County, Hydrologic Unit 03020204, at U.S. Coast Guard Channel Light 9.

PERIOD OF RECORD.--May 1989 to July 1993, 1996 to current year.

PERIOD OF DAILY RECORD.--

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

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

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

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

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

DISSOLVED OXYGEN (MID): May 1989 to July 1993.

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

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

INSTRUMENTATION.-- Water-quality monitor from May 1989 to July 1993. Constituents monitored were: specific conductance top and bottom, water temperature top and bottom, dissolved oxygen top, mid-depth and bottom. Water-quality monitor with satellite telemetry from June 1996 to current water 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.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. The monitor was removed August 29, 1999 to prevent possible destruction of the equipment during Hurricanes Dennis and Floyd. It was reinstalled on October 5, 1999. Prior to June 1996, top constituents were monitored at 8 ft above streambed, mid constituents at 6 ft above streambed and bottom constituents, 2 ft above streambed. Beginning in June 1996, top constituents were monitored at 8 ft above streambed and bottom constituents, 2 ft above streambed. Salinity and dissolved oxygen, percent saturation are computed. The dissolved oxygen percent saturation is computed using a barometric pressure of 760mm of Hg beginning October 1, 2000. Salinity, minimum extremes are reported as <0.1 ppt. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY(TOP), ppt	23.6, August 28, 2002	<0.1, on several days during the period
SALINITY(BOTTOM), ppt	27.8, August 18, 2002	<0.1, on several days during the period
pH(TOP), standard units	10.4, April 19, 1999	4.3, June 13, 1997
pH(BOTTOM), standard units	9.3, March 12, 13, 14, 16-20, 1999	6.1, October 1, 1998
WATER TEMPERATURE (TOP), °C	32.3, August 6, 1989, July 30, 2002	0.3, March 14, 1993
WATER TEMPERATURE (BOTTOM), °C	31.4, July 29, 1999	1.8, January 29, 2000
DISSOLVED OXYGEN (TOP), mg/L	20.7, April 10, 1991	< 1.0, on several days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	16.8, April 26, 1991	< 1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	23.6, August 28	4.1, April 15, 16
SALINITY (BOTTOM), ppt	27.8, August 18	6.0, April 12
pH (TOP), standard units	9.0, January 28, 29, March 16	6.8, April 14, 16, 17, 18, 19
pH (BOTTOM), standard units	8.9, January 27, 28, March 20, 21	6.2, September 19
WATER TEMPERATURE (TOP), °C	32.3, July 30	4.4, January 5
WATER TEMPERATURE (BOTTOM), °C	30.3, July 30, 31	4.4, January 5
DISSOLVED OXYGEN (TOP), mg/L	15.9, January 18	1.4, April 14
DISSOLVED OXYGEN (BOTTOM), mg/L	13.2, January 16	< 1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP), %	161, June 29	15, April 14
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM), %	125, June 30	< 10, on many days during the year

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	13.1	10.7	12.2	15.7	15.3	15.5	18.9	16.4	17.5	16.5	16.0	16.3
2	13.7	11.8	13.1	16.1	15.0	15.6	17.7	15.8	16.5	16.3	14.3	15.1
3	14.0	13.3	13.6	15.6	14.9	15.2	16.5	15.5	15.8	---	---	---
4	16.6	13.7	14.3	15.7	14.6	15.1	16.1	13.3	14.8	---	---	---
5	16.6	14.1	14.6	15.7	13.9	14.9	16.4	14.1	15.3	16.9	15.7	16.4
6	16.5	14.4	15.4	15.3	13.0	14.1	16.9	13.7	15.2	18.8	16.2	17.0
7	16.3	15.9	16.1	14.8	13.0	13.6	17.5	12.5	14.7	17.2	16.7	17.0
8	16.4	15.6	16.1	14.8	13.3	14.1	18.1	14.0	16.8	17.1	16.5	16.8
9	16.4	15.4	15.9	15.5	14.1	14.5	18.9	15.3	16.6	16.8	16.2	16.4
10	16.7	15.5	16.2	---	---	---	16.7	15.9	16.3	---	---	---
11	16.7	16.2	16.4	---	---	---	17.0	16.1	16.5	16.9	15.4	16.2
12	16.5	16.1	16.3	---	---	---	16.7	14.7	15.8	16.6	14.2	15.4
13	16.5	16.1	16.3	---	---	---	16.9	15.1	16.0	15.6	13.4	14.2
14	16.7	16.4	16.5	---	---	---	18.2	15.9	16.7	---	---	---
15	16.7	16.4	16.6	---	---	---	17.7	16.7	17.0	15.5	13.4	14.2
16	16.7	16.3	16.6	---	---	---	17.3	16.8	17.0	---	---	---
17	16.7	16.1	16.3	---	---	---	17.2	16.9	17.1	15.5	11.2	13.0
18	16.7	16.2	16.5	---	---	---	17.1	16.6	16.8	14.2	10.2	11.4
19	16.7	15.8	16.4	---	---	---	17.5	16.7	17.0	16.0	10.1	12.7
20	16.5	15.6	16.1	---	---	---	17.2	16.9	17.0	15.5	14.1	14.7
21	16.4	15.9	16.0	---	---	---	18.1	16.8	17.2	15.3	13.5	14.0
22	15.9	13.5	15.1	---	---	---	---	---	---	15.3	13.6	14.5
23	15.7	12.6	14.3	---	---	---	---	---	---	15.6	14.5	14.9
24	15.5	12.8	13.9	---	---	---	---	---	---	17.5	15.1	15.7
25	15.9	14.1	15.1	---	---	---	---	---	---	16.3	13.8	15.4
26	16.0	15.0	15.5	---	---	---	---	---	---	16.0	14.9	15.4
27	16.7	15.8	16.1	16.1	15.3	15.6	---	---	---	15.1	14.1	14.7
28	16.4	15.5	15.9	16.2	15.1	15.5	---	---	---	14.7	10.2	13.3
29	15.5	15.2	15.3	19.1	14.9	16.3	16.7	15.9	16.5	14.9	4.3	9.9
30	15.3	15.0	15.1	19.7	16.0	17.8	16.6	16.1	16.3	16.1	7.0	12.0
31	---	---	---	---	---	---	17.1	16.1	16.4	17.8	12.5	15.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	20.1	13.6	17.3	15.4	14.5	14.9	12.2	9.5	10.8	15.5	14.2	14.8
2	18.3	16.7	17.7	15.7	15.0	15.4	11.3	9.3	10.4	15.5	14.3	14.8
3	---	---	---	15.1	14.3	14.9	11.5	8.6	10.3	16.4	14.4	15.1
4	---	---	---	14.5	13.4	14.0	12.9	9.4	11.2	---	---	---
5	12.1	7.8	10.3	14.7	12.9	13.5	12.5	9.9	11.1	15.4	14.8	15.1
6	---	---	---	13.2	11.7	12.4	10.7	7.8	8.8	---	---	---
7	---	---	---	12.7	11.2	11.9	8.8	7.0	8.1	---	---	---
8	14.4	12.0	13.5	12.4	10.6	11.3	8.8	7.5	8.0	---	---	---
9	13.9	11.3	12.4	13.3	11.3	11.9	10.1	7.6	8.6	---	---	---
10	14.5	12.2	13.6	12.5	11.1	11.7	9.3	6.2	7.2	16.4	13.7	14.4
11	14.3	12.8	13.4	13.1	12.0	12.6	7.6	6.3	7.1	---	---	---
12	14.3	13.3	13.8	13.0	10.2	11.3	7.0	5.3	5.9	---	---	---
13	14.1	12.6	13.1	12.2	9.3	10.4	6.8	5.5	6.0	13.9	11.8	12.9
14	14.3	13.5	14.0	12.8	8.8	9.9	8.0	5.1	6.6	13.9	12.0	12.7
15	14.1	8.2	12.5	11.2	9.0	9.7	9.9	4.1	6.3	15.0	13.3	14.3
16	11.7	5.8	8.2	12.8	8.3	9.7	12.0	4.1	7.9	14.7	13.4	14.0
17	11.3	7.3	9.5	12.7	9.0	10.5	13.3	7.1	10.6	14.7	13.5	14.1
18	11.9	9.7	10.6	12.4	8.9	9.8	14.9	8.8	12.7	17.7	14.3	15.4
19	12.0	10.9	11.4	11.8	8.2	9.9	16.1	8.0	12.6	15.8	15.1	15.4
20	15.3	11.4	13.1	11.8	9.8	10.7	17.1	11.1	14.7	16.1	15.2	15.5
21	14.9	12.4	13.3	11.7	9.6	10.5	16.5	11.2	14.3	16.7	15.3	15.6
22	14.9	12.5	12.9	11.6	9.2	10.0	19.3	13.5	15.2	17.3	15.8	16.7
23	13.5	11.8	12.9	11.3	8.4	9.3	15.6	12.9	14.2	16.0	15.5	15.7
24	13.3	6.8	8.5	10.7	8.8	9.5	---	---	---	15.9	13.8	14.7
25	13.9	7.6	10.5	10.7	8.8	9.5	16.5	14.4	15.4	15.9	14.1	14.7
26	15.7	12.0	14.4	13.4	9.2	10.5	16.3	15.0	15.7	15.7	13.9	14.4
27	15.7	13.2	14.3	11.9	9.5	10.6	16.3	16.0	16.2	16.1	13.8	14.8
28	15.2	14.3	14.7	12.6	10.6	11.4	16.1	14.2	15.1	16.4	15.4	16.1
29	---	---	---	11.8	10.6	11.4	16.4	14.9	15.2	16.7	16.2	16.5
30	---	---	---	11.3	10.1	10.7	15.9	14.7	15.2	16.5	15.7	16.2
31	---	---	---	12.5	10.2	11.3	---	---	---	16.1	14.9	15.7
MONTH	---	---	---	15.7	8.2	11.3	---	---	---	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	20.4	18.9	19.8	15.2	14.3	14.8	15.3	10.9	12.3	17.3	14.4	15.9
2	---	---	---	15.3	14.7	15.1	---	---	---	17.4	14.9	16.2
3	---	---	---	14.9	14.2	14.6	18.0	8.6	14.5	16.7	14.5	15.7
4	---	---	---	14.5	13.1	13.8	13.6	9.5	12.3	---	---	---
5	---	---	---	14.8	13.3	14.2	12.8	10.0	11.5	15.9	14.9	15.2
6	---	---	---	15.3	11.8	13.4	13.1	8.3	10.2	---	---	---
7	---	---	---	15.3	12.9	14.0	12.1	7.8	9.9	---	---	---
8	14.9	13.7	14.2	15.8	12.6	14.4	13.0	7.9	10.4	---	---	---
9	15.7	13.1	14.5	15.1	12.1	13.7	13.1	8.7	10.8	---	---	---
10	17.6	13.7	14.9	15.0	11.0	12.4	12.7	6.9	10.3	16.3	14.5	15.4
11	17.7	12.8	13.9	13.6	11.9	12.6	11.3	6.4	8.1	---	---	---
12	16.0	13.6	14.5	14.4	10.7	12.5	11.2	6.0	8.8	---	---	---
13	15.8	12.7	13.7	14.1	9.8	12.2	12.4	8.0	11.2	15.9	12.1	13.7
14	15.9	13.5	14.0	15.6	9.7	12.5	13.7	11.0	12.3	15.0	11.9	12.9
15	14.4	13.0	13.5	16.7	12.6	15.5	15.8	12.0	14.6	16.5	13.7	15.2
16	15.7	12.0	13.4	18.4	15.1	17.0	16.9	13.4	16.0	17.1	13.9	15.1
17	16.1	8.6	11.3	18.4	10.6	13.1	17.6	16.4	17.1	17.3	14.1	15.2
18	14.6	10.4	12.3	14.6	9.6	11.6	19.2	17.2	18.2	18.7	14.7	16.2
19	16.9	12.0	14.3	13.9	10.4	11.7	21.0	10.7	19.1	16.1	15.5	15.7
20	17.8	14.7	16.8	12.7	10.0	11.2	21.3	16.1	18.5	16.4	15.5	15.8
21	18.1	13.1	15.5	13.0	9.9	11.1	21.7	13.4	18.5	16.9	15.5	16.0
22	18.5	15.1	17.1	12.8	9.2	10.6	20.1	14.1	17.2	17.6	16.1	17.1
23	17.5	12.1	13.8	13.0	8.8	10.8	17.8	14.0	15.6	16.8	15.8	16.2
24	15.9	8.0	12.8	14.4	9.3	11.5	---	---	---	17.9	14.4	15.9
25	16.5	11.1	14.6	14.8	11.3	13.3	17.5	14.9	16.1	17.8	14.4	16.3
26	16.4	14.7	15.7	15.4	12.6	14.6	16.7	15.3	16.1	18.3	15.8	17.6
27	15.4	13.3	14.2	16.1	10.2	13.2	16.5	16.1	16.3	18.8	16.6	18.1
28	15.2	14.1	14.6	14.1	11.0	12.1	16.2	14.7	15.5	18.0	16.1	16.8
29	---	---	---	12.8	11.5	12.0	17.0	15.0	15.5	16.9	16.6	16.8
30	---	---	---	13.0	10.7	11.5	16.9	15.0	16.0	16.8	16.3	16.6
31	---	---	---	15.1	11.5	13.6	---	---	---	17.5	16.2	16.7
MONTH	---	---	---	18.4	8.8	13.1	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	17.9	15.1	16.4	19.6	18.4	18.8	24.3	20.9	23.3	21.7	20.5	21.0
2	19.5	15.1	17.2	19.3	18.2	18.6	24.1	20.1	22.6	22.0	19.6	20.7
3	19.0	15.6	16.7	20.3	17.0	18.8	23.5	20.0	20.9	21.9	19.2	21.0
4	18.4	16.0	17.0	20.2	17.1	18.6	21.1	20.7	20.9	21.9	19.9	21.3
5	19.1	16.7	18.0	21.9	17.5	20.6	21.0	20.0	20.7	21.8	18.4	20.7
6	20.5	16.5	19.3	21.0	18.4	19.1	21.5	19.5	20.3	21.3	19.2	20.0
7	21.3	16.4	17.9	19.9	18.8	19.3	22.2	20.1	20.7	20.2	19.4	19.8
8	18.6	16.1	17.1	19.9	18.5	19.1	22.3	20.4	21.5	20.5	19.7	20.1
9	18.6	16.7	17.1	20.7	18.2	19.3	21.9	21.0	21.4	21.2	16.9	20.2
10	18.6	16.1	17.4	19.6	18.2	18.5	21.8	20.9	21.4	21.3	14.8	18.1
11	19.2	16.1	18.1	20.9	18.2	18.8	22.1	20.5	21.1	20.8	17.3	19.3
12	19.7	16.3	18.5	19.7	18.8	19.1	22.2	19.9	21.0	20.5	17.5	19.0
13	20.5	16.2	17.8	20.3	19.2	19.8	22.3	19.6	20.9	19.5	18.4	18.9
14	19.9	16.7	18.2	20.1	19.2	19.7	22.5	20.6	21.8	19.6	18.8	19.1
15	19.4	17.1	17.8	20.1	18.6	19.5	23.6	22.1	22.8	19.1	18.9	19.0
16	21.2	16.9	19.0	20.8	18.5	19.7	24.9	21.7	23.4	21.1	18.8	19.6
17	22.6	16.3	19.7	21.7	18.4	20.8	25.8	20.5	22.9	19.7	18.9	19.2
18	23.0	17.8	20.8	22.3	20.1	21.4	27.8	20.6	24.5	20.7	19.0	19.7
19	22.7	17.4	19.1	23.1	20.1	22.0	27.4	21.9	25.3	20.0	19.0	19.4
20	19.0	17.6	18.4	23.5	19.1	21.9	27.6	22.2	26.1	19.4	18.8	19.1
21	19.5	18.3	18.8	23.1	18.8	21.6	26.8	21.0	23.6	19.4	18.8	19.1
22	19.0	17.6	18.0	23.1	19.2	21.8	24.5	22.5	23.3	19.6	18.8	19.4
23	18.8	17.1	18.0	23.7	21.9	22.9	24.2	22.3	22.7	19.4	18.6	18.9
24	19.5	16.6	18.9	24.9	22.3	23.9	24.9	21.9	23.1	19.5	17.8	19.0
25	19.8	18.2	19.4	25.4	20.2	23.0	23.5	22.1	22.9	20.7	18.7	19.6
26	21.5	17.7	20.4	25.1	20.2	23.1	23.8	22.7	23.0	20.5	17.9	19.2
27	21.9	17.5	19.5	24.8	19.5	22.4	23.6	22.7	23.1	20.5	18.6	19.7
28	20.8	17.4	18.5	25.1	19.7	23.0	24.0	22.1	23.0	19.4	18.0	18.6
29	21.2	17.9	19.0	25.2	20.8	23.8	23.8	21.7	22.6	19.3	18.4	19.0
30	20.6	18.4	19.5	---	---	---	22.8	22.0	22.3	19.4	18.2	19.1
31	---	---	---	24.7	20.2	22.7	22.3	21.5	22.1	---	---	---
MONTH	23.0	15.1	18.4	---	---	---	27.8	19.5	22.4	22.0	14.8	19.6

NEUSE RIVER BASIN

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.1	7.7	7.9	8.1	8.0	8.1	8.0	7.9	8.0	8.0	7.9	7.9
2	8.1	7.6	7.9	8.2	8.0	8.1	8.0	7.9	8.0	8.1	7.9	8.0
3	8.1	7.3	7.8	8.2	8.0	8.1	8.0	7.9	8.0	---	---	---
4	8.2	7.5	8.0	8.2	8.1	8.2	8.1	7.9	8.0	---	---	---
5	8.3	8.1	8.2	8.2	8.1	8.2	8.1	7.9	8.0	7.9	7.8	7.8
6	8.2	8.1	8.1	8.2	8.1	8.1	8.2	7.9	8.1	7.9	7.8	7.8
7	8.1	8.0	8.1	8.1	8.1	8.1	8.3	7.9	8.2	7.8	7.8	7.8
8	8.2	8.1	8.1	8.1	8.0	8.1	8.2	8.0	8.1	7.9	7.8	7.8
9	8.2	8.1	8.1	8.1	8.0	8.1	8.1	7.9	8.0	7.9	7.8	7.9
10	8.2	8.0	8.1	8.1	8.0	8.0	8.1	8.0	8.0	---	---	---
11	8.1	8.0	8.0	8.1	7.9	8.0	8.1	8.0	8.0	8.2	8.0	8.0
12	8.1	8.0	8.0	8.0	8.0	8.0	8.0	7.9	8.0	8.4	8.1	8.2
13	8.1	8.0	8.1	8.0	7.9	8.0	8.1	7.8	8.0	8.4	8.2	8.3
14	8.0	7.8	7.9	8.0	7.8	7.9	7.9	7.6	7.8	---	---	---
15	8.1	7.9	8.0	7.9	7.8	7.9	7.9	7.6	7.8	8.5	8.2	8.4
16	8.1	7.9	8.0	8.0	7.9	7.9	7.9	7.7	7.8	---	---	---
17	8.0	7.8	7.9	8.0	7.8	7.9	8.0	7.8	7.9	8.8	8.4	8.6
18	8.1	7.9	8.0	8.0	7.9	8.0	7.9	7.7	7.8	8.9	8.4	8.7
19	8.1	7.9	8.0	8.1	7.9	8.0	7.8	7.7	7.8	8.8	8.4	8.6
20	8.0	7.8	7.9	8.1	7.9	8.1	7.8	7.7	7.8	8.5	8.4	8.5
21	8.0	7.9	8.0	8.1	8.0	8.0	7.9	7.7	7.8	8.6	8.4	8.5
22	8.1	7.9	8.0	8.1	7.8	8.0	---	---	---	8.7	8.4	8.5
23	8.1	7.9	8.0	8.1	7.9	8.0	---	---	---	8.7	8.5	8.6
24	8.2	7.8	8.0	8.1	7.9	8.0	---	---	---	8.5	8.2	8.4
25	8.1	7.8	8.0	8.0	7.8	8.0	---	---	---	8.6	8.4	8.5
26	8.1	7.6	7.9	8.1	7.8	8.0	---	---	---	8.6	8.4	8.5
27	8.0	7.6	7.8	8.1	7.9	8.0	---	---	---	8.7	8.6	8.6
28	7.9	7.4	7.7	8.1	7.9	8.0	---	---	---	9.0	8.6	8.8
29	8.2	7.4	7.8	8.1	7.8	8.0	8.0	7.7	7.9	9.0	8.6	8.8
30	8.1	7.2	7.5	8.0	7.9	8.0	7.9	7.9	7.9	8.9	8.4	8.7
31	---	---	---	---	---	---	8.0	7.9	7.9	8.7	8.1	8.4
MONTH	---	---	---	8.2	7.8	8.0	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	8.4	7.8	8.1	8.2	8.0	8.1	8.4	7.9	8.2	7.9	7.6	7.7
2	8.2	8.0	8.1	8.1	8.0	8.1	8.5	8.0	8.2	7.8	7.6	7.7
3	---	---	---	8.1	7.9	8.0	8.6	7.9	8.1	7.8	7.4	7.7
4	---	---	---	8.2	8.0	8.1	8.4	7.5	7.9	---	---	---
5	7.9	7.7	7.8	8.4	8.0	8.2	8.1	7.5	7.8	7.5	7.3	7.4
6	---	---	---	8.6	8.4	8.6	8.4	7.8	8.2	---	---	---
7	---	---	---	8.7	8.5	8.6	8.5	8.1	8.3	---	---	---
8	8.3	7.9	8.1	8.9	8.5	8.7	8.4	8.0	8.2	---	---	---
9	8.4	8.1	8.2	8.8	8.3	8.6	8.2	7.4	7.9	---	---	---
10	8.3	8.1	8.2	8.8	8.4	8.6	8.2	7.5	8.0	8.3	7.4	8.0
11	8.2	8.0	8.1	8.5	8.2	8.4	8.1	7.4	7.7	---	---	---
12	8.1	7.9	8.0	8.6	8.2	8.4	8.2	7.5	7.8	---	---	---
13	8.2	8.1	8.2	8.7	8.2	8.5	7.8	7.1	7.4	8.2	7.8	8.1
14	8.1	8.0	8.1	8.8	8.2	8.6	7.9	6.8	7.2	8.0	7.7	7.8
15	8.3	8.0	8.2	8.9	8.5	8.7	7.8	6.9	7.3	8.0	7.7	7.8
16	8.6	8.2	8.4	9.0	8.3	8.7	7.2	6.8	7.0	8.2	7.7	8.0
17	8.4	8.1	8.2	8.8	8.2	8.6	7.1	6.8	6.9	8.2	7.8	8.0
18	8.2	8.0	8.1	8.8	8.4	8.7	7.1	6.8	6.9	8.1	7.4	7.8
19	8.3	8.1	8.2	8.7	8.4	8.6	7.7	6.8	7.1	7.9	7.6	7.7
20	8.2	7.9	8.1	8.7	8.2	8.5	7.4	6.9	7.1	8.0	7.7	7.8
21	8.5	7.9	8.3	8.7	8.2	8.5	7.7	6.9	7.2	7.9	7.7	7.8
22	8.6	8.2	8.5	8.6	8.0	8.4	7.5	7.0	7.2	8.0	7.8	7.9
23	8.6	8.3	8.5	8.5	8.1	8.4	7.4	7.1	7.2	8.0	7.8	7.9
24	8.8	8.4	8.7	8.7	8.2	8.5	---	---	---	8.2	7.8	8.0
25	8.7	8.2	8.6	8.7	8.1	8.5	7.6	7.2	7.4	8.1	7.8	8.0
26	8.5	8.1	8.3	8.5	7.8	8.2	7.7	7.3	7.5	8.1	7.9	8.0
27	8.4	8.1	8.2	8.4	7.8	8.2	7.6	7.3	7.4	8.1	7.8	8.0
28	8.2	8.1	8.1	8.3	7.8	8.1	7.8	7.3	7.5	7.9	7.8	7.9
29	---	---	---	8.4	8.1	8.2	7.8	7.4	7.6	7.8	7.7	7.8
30	---	---	---	8.5	8.2	8.3	7.9	7.6	7.7	7.8	7.7	7.8
31	---	---	---	8.4	8.0	8.2	---	---	---	7.9	7.6	7.8
MONTH	---	---	---	9.0	7.8	8.4	---	---	---	---	---	---

NEUSE RIVER BASIN

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	8.1	8.0	8.1	8.1	7.9	8.0	8.4	7.3	8.0	7.8	7.1	7.4
2	8.3	8.1	8.2	8.0	7.9	8.0	---	---	---	7.6	6.9	7.4
3	---	---	---	8.1	7.9	8.0	8.8	6.8	7.4	7.7	7.1	7.4
4	---	---	---	8.2	7.9	8.1	8.6	7.2	7.7	---	---	---
5	8.1	7.9	8.0	8.2	7.7	8.0	8.2	7.2	7.8	7.3	7.2	7.3
6	---	---	---	8.6	7.7	8.2	8.6	7.3	8.0	---	---	---
7	---	---	---	8.4	7.5	8.0	8.5	7.2	7.9	---	---	---
8	8.4	8.1	8.2	8.5	7.6	8.0	8.5	6.9	7.6	---	---	---
9	8.3	8.1	8.2	8.7	7.5	8.1	8.2	6.9	7.5	---	---	---
10	8.4	7.8	8.2	8.8	7.6	8.5	8.3	7.0	7.5	7.7	6.8	7.2
11	8.4	7.8	8.2	8.5	8.2	8.4	8.3	7.1	7.8	---	---	---
12	8.3	8.0	8.1	8.6	7.8	8.2	8.5	6.9	7.5	---	---	---
13	8.4	8.0	8.2	8.7	7.7	8.2	7.4	6.8	7.0	7.8	6.9	7.5
14	8.3	8.1	8.2	8.7	7.6	8.3	7.1	6.8	6.9	7.7	7.4	7.6
15	8.4	8.1	8.3	8.3	7.2	7.6	7.1	6.9	7.0	7.7	7.2	7.4
16	8.3	7.8	8.1	7.9	7.3	7.5	7.2	6.9	7.0	8.0	7.1	7.6
17	8.5	7.7	8.2	8.8	7.3	8.2	7.2	6.9	7.0	8.0	7.3	7.8
18	8.3	7.9	8.1	8.8	7.7	8.5	7.2	6.9	7.0	8.0	7.0	7.6
19	8.2	7.6	8.0	8.7	7.9	8.5	7.8	6.9	7.1	7.8	7.6	7.7
20	8.1	7.5	7.8	8.9	7.9	8.6	7.4	7.0	7.2	7.9	7.6	7.7
21	8.1	7.5	7.9	8.9	7.8	8.5	7.8	6.9	7.2	7.9	7.5	7.8
22	7.9	7.4	7.6	8.8	7.9	8.4	7.7	7.0	7.2	7.9	7.8	7.8
23	8.3	7.5	8.1	8.6	7.7	8.2	7.6	7.1	7.4	7.9	7.7	7.8
24	8.6	7.8	8.1	8.8	7.3	8.0	---	---	---	7.9	7.3	7.7
25	8.4	7.6	8.0	8.3	7.0	7.5	7.4	6.8	7.1	7.9	7.4	7.7
26	8.1	7.6	7.9	8.0	7.0	7.2	7.5	7.1	7.2	7.8	7.2	7.4
27	8.2	8.0	8.1	8.5	7.1	7.7	7.5	7.2	7.3	7.6	7.2	7.4
28	8.0	7.9	8.0	8.4	7.5	8.1	7.6	7.1	7.3	7.8	7.3	7.6
29	---	---	---	8.4	7.7	8.2	7.7	7.3	7.5	7.7	7.5	7.6
30	---	---	---	8.6	7.4	8.2	7.7	7.2	7.4	7.7	7.4	7.6
31	---	---	---	8.3	7.0	7.5	---	---	---	7.6	7.1	7.4
MONTH	---	---	---	8.9	7.0	8.1	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.9	7.1	7.6	8.2	7.6	8.0	7.8	7.4	7.5	7.9	7.7	7.8
2	7.8	7.1	7.4	8.3	7.8	8.1	7.9	7.4	7.6	7.8	7.6	7.7
3	7.9	7.1	7.6	8.3	7.3	7.8	8.0	7.5	7.9	8.0	7.5	7.7
4	7.6	6.9	7.4	8.2	7.4	7.8	7.9	7.8	7.9	8.0	7.5	7.6
5	7.6	6.9	7.1	8.2	7.3	7.5	8.0	7.7	7.8	8.1	7.5	7.7
6	7.8	7.0	7.2	8.1	7.5	7.9	7.8	7.4	7.7	8.0	7.5	7.8
7	7.9	7.1	7.6	8.1	7.6	7.9	7.9	7.7	7.8	8.0	7.7	7.9
8	7.9	7.4	7.7	8.1	7.5	7.8	8.1	7.7	7.8	7.9	7.8	7.8
9	7.9	7.4	7.7	8.0	7.4	7.7	8.0	7.8	7.9	8.0	7.7	7.8
10	8.0	7.4	7.6	8.0	7.6	7.8	8.0	7.7	7.9	8.0	7.7	7.8
11	8.0	7.2	7.6	7.9	7.5	7.8	8.1	7.5	7.9	8.0	7.6	7.7
12	7.9	7.2	7.5	8.1	7.6	7.9	8.2	7.5	7.8	7.9	7.4	7.7
13	8.1	7.2	7.6	8.0	7.5	7.8	8.2	7.5	7.8	8.2	7.7	7.9
14	7.8	7.2	7.6	8.0	7.5	7.7	8.0	7.4	7.7	7.9	7.4	7.7
15	8.0	7.3	7.7	8.1	7.6	7.8	7.9	7.4	7.6	7.8	7.2	7.5
16	7.9	7.2	7.5	8.0	7.6	7.7	7.9	7.3	7.6	7.8	6.6	7.4
17	8.1	7.2	7.5	8.0	7.3	7.6	8.1	7.3	7.7	7.6	6.4	7.1
18	7.7	7.1	7.4	8.1	7.4	7.6	8.0	7.3	7.6	7.0	6.3	6.7
19	7.9	7.2	7.5	7.9	7.4	7.5	8.0	7.3	7.6	7.2	6.2	6.8
20	7.8	7.5	7.7	8.1	7.4	7.6	8.1	7.3	7.5	7.7	6.7	7.2
21	7.7	7.5	7.7	8.3	7.4	7.7	8.2	7.5	7.9	7.7	7.0	7.3
22	7.7	7.4	7.5	8.1	7.5	7.6	8.1	7.7	8.0	7.9	7.4	7.7
23	7.5	7.0	7.4	7.9	7.4	7.5	8.1	7.7	8.1	7.9	7.4	7.6
24	7.6	6.9	7.1	7.8	7.5	7.6	8.2	7.4	7.9	8.0	7.6	7.7
25	7.2	6.9	7.0	8.1	7.5	7.7	8.1	7.8	7.9	7.8	7.6	7.7
26	7.9	6.8	7.2	7.9	7.5	7.6	8.0	7.7	7.9	7.8	7.5	7.7
27	8.0	7.2	7.6	8.0	7.5	7.7	7.9	7.7	7.8	7.9	7.6	7.7
28	8.2	7.4	7.9	8.0	7.5	7.6	7.9	7.7	7.8	8.1	7.6	7.8
29	8.2	7.5	7.9	7.8	7.5	7.6	8.0	7.6	7.8	7.9	7.6	7.7
30	8.4	7.4	7.8	---	---	---	8.0	7.7	7.9	7.9	7.5	7.7
31	---	---	---	7.9	7.4	7.6	8.0	7.8	7.9	---	---	---
MONTH	8.4	6.8	7.5	---	---	---	8.2	7.3	7.8	8.2	6.2	7.6

NEUSE RIVER BASIN

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

WATER TEMPERATURE, DEGREES CELSIUS, TOP, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	19.4	18.5	19.0	16.0	14.9	15.5	17.4	16.1	16.6	8.3	7.4	8.0
2	20.3	18.4	19.3	17.1	15.4	16.1	17.8	16.8	17.3	7.5	6.1	6.6
3	21.0	19.5	20.1	18.3	16.2	16.8	17.1	16.5	16.8	---	---	---
4	21.2	19.7	20.4	17.8	17.0	17.4	16.8	15.9	16.4	---	---	---
5	22.3	20.2	21.2	17.5	15.9	16.6	16.8	15.7	16.4	5.5	4.4	5.0
6	22.3	21.4	21.7	15.9	14.3	15.0	16.9	15.9	16.4	6.7	4.9	5.7
7	21.5	20.4	20.8	15.4	13.3	14.4	17.0	16.0	16.5	6.3	5.5	6.0
8	20.4	19.1	19.7	15.7	13.7	14.7	17.0	16.4	16.7	6.1	5.0	5.6
9	19.1	17.4	18.2	14.9	14.2	14.5	17.3	16.2	16.9	5.8	4.9	5.4
10	19.1	17.8	18.4	15.7	13.9	14.7	16.3	15.6	15.8	---	---	---
11	19.2	18.6	19.0	15.1	14.4	14.8	15.8	15.5	15.7	7.3	6.1	6.7
12	20.4	18.7	19.5	14.7	13.9	14.4	15.7	15.5	15.6	7.3	6.3	6.7
13	20.5	19.2	19.8	14.1	13.4	13.8	16.1	15.6	15.8	7.5	6.8	7.2
14	21.1	19.6	20.2	14.3	13.7	14.0	16.4	15.7	16.0	---	---	---
15	21.1	20.5	20.7	14.6	14.0	14.3	16.6	16.1	16.3	8.9	7.5	8.1
16	21.6	20.4	20.7	14.9	14.2	14.6	16.1	15.1	15.6	---	---	---
17	20.6	19.1	19.8	15.1	14.3	14.4	15.7	14.7	15.3	8.9	7.5	8.3
18	19.2	17.8	18.5	15.0	14.1	14.6	15.7	15.2	15.5	9.2	8.3	8.8
19	18.4	17.3	18.0	15.5	14.3	14.8	15.2	14.7	15.0	9.4	8.3	8.9
20	19.5	18.0	18.6	15.6	15.0	15.3	15.1	13.3	14.2	9.1	8.5	8.7
21	19.9	18.7	19.1	15.0	13.7	14.3	13.3	12.4	12.9	8.7	8.2	8.5
22	21.3	19.0	19.9	14.2	13.4	13.9	---	---	---	9.0	8.1	8.5
23	21.5	20.0	20.7	14.2	13.4	13.9	---	---	---	9.2	8.3	8.7
24	23.8	20.6	21.8	15.1	14.1	14.5	---	---	---	12.0	9.1	10.0
25	22.2	20.8	21.5	15.5	14.7	15.0	---	---	---	11.1	10.1	10.7
26	21.4	18.7	20.1	16.5	15.1	15.7	---	---	---	10.2	9.2	9.8
27	18.7	17.2	18.0	16.7	15.4	16.2	---	---	---	11.3	10.1	10.4
28	17.2	14.5	16.0	17.5	15.7	16.6	---	---	---	13.1	10.2	11.5
29	14.9	13.8	14.4	17.2	15.2	16.4	9.6	8.6	9.1	13.4	10.8	12.0
30	15.1	14.2	14.5	16.8	15.0	16.1	9.1	8.5	8.7	14.0	10.6	12.4
31	---	---	---	---	---	---	8.8	8.1	8.4	14.0	11.2	12.7
MONTH	---	---	---	18.3	13.3	15.1	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	13.6	10.8	12.3	10.9	8.8	9.8	18.9	17.5	18.2	21.8	20.7	21.3
2	13.1	11.5	12.3	10.8	9.3	9.7	19.2	18.0	18.7	23.6	21.4	22.1
3	---	---	---	13.0	10.7	11.5	20.2	18.5	19.4	23.5	22.3	22.8
4	---	---	---	12.0	10.6	11.5	19.7	17.0	18.0	---	---	---
5	10.0	8.3	8.8	10.9	9.7	10.3	17.0	16.4	16.6	21.3	19.5	20.6
6	---	---	---	10.9	9.1	10.1	16.5	15.5	16.1	---	---	---
7	---	---	---	11.7	10.2	10.8	16.0	14.5	15.3	---	---	---
8	10.1	8.5	9.2	13.2	11.1	12.2	16.6	14.8	15.7	---	---	---
9	10.2	8.7	9.4	15.0	12.6	13.3	17.5	16.0	16.7	---	---	---
10	10.9	9.3	10.1	14.3	13.2	13.8	17.7	17.0	17.3	27.1	21.7	24.3
11	11.1	10.4	10.6	13.2	12.5	12.9	18.3	16.6	17.4	---	---	---
12	11.0	9.8	10.5	13.7	12.8	13.2	19.9	17.7	18.5	---	---	---
13	10.9	10.3	10.5	14.3	13.5	13.9	19.2	17.9	18.6	25.4	24.1	24.5
14	10.4	9.9	10.1	15.9	13.7	14.5	20.9	17.5	18.8	24.4	22.4	23.5
15	10.7	9.7	10.1	16.4	14.6	15.5	21.1	18.3	19.9	23.5	21.2	22.7
16	11.2	10.1	10.6	17.8	15.2	16.5	21.7	18.6	19.8	24.0	21.4	22.6
17	10.7	9.8	10.3	17.2	16.0	16.5	21.5	18.3	19.7	24.5	22.0	23.1
18	9.8	9.0	9.3	16.5	15.3	16.0	22.0	17.9	19.6	24.3	22.8	23.2
19	9.9	8.3	9.1	16.2	15.2	15.7	22.6	18.0	20.3	22.8	19.6	21.5
20	11.2	9.2	10.1	16.3	15.2	15.7	24.8	18.9	21.0	20.4	18.9	19.8
21	12.7	10.8	11.7	16.2	15.2	15.7	24.4	20.9	22.5	20.1	19.0	19.6
22	12.9	11.7	12.3	15.2	13.6	14.6	24.1	19.5	22.6	19.4	18.2	18.8
23	12.4	11.2	11.8	14.5	13.0	13.8	23.7	22.0	22.7	19.8	18.8	19.3
24	11.3	10.5	10.9	16.0	12.8	14.0	---	---	---	21.5	18.4	19.8
25	11.5	9.3	10.5	16.0	13.8	14.6	21.3	20.6	20.9	22.7	19.5	20.7
26	11.8	10.6	11.2	16.1	14.6	15.4	20.6	20.0	20.3	23.9	21.0	22.2
27	11.7	10.5	11.3	16.2	15.4	15.9	20.2	19.6	20.0	23.9	21.5	22.8
28	10.5	9.0	9.9	16.2	14.7	15.2	22.2	19.6	20.4	23.4	22.6	23.1
29	---	---	---	16.3	14.4	15.4	22.7	20.6	21.4	23.2	22.7	22.9
30	---	---	---	17.6	15.7	16.3	22.1	20.7	21.3	24.6	23.0	23.6
31	---	---	---	18.1	16.6	17.4	---	---	---	25.5	23.9	24.6
MONTH	---	---	---	18.1	8.8	13.9	---	---	---	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

WATER TEMPERATURE, DEGREES CELSIUS, BOTTOM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	12.4	9.5	10.6	10.6	8.9	9.8	18.6	16.0	17.6	21.5	20.9	21.1
2	12.6	11.5	12.2	10.7	9.4	9.7	---	---	---	23.3	20.9	21.7
3	---	---	---	12.3	10.7	11.5	20.1	16.0	17.6	23.2	22.2	22.6
4	---	---	---	12.1	10.8	11.5	19.7	17.1	18.1	---	---	---
5	10.3	8.9	9.4	10.9	10.1	10.4	17.2	16.5	16.8	21.3	19.5	20.7
6	---	---	---	10.7	9.7	10.4	16.9	15.9	16.4	---	---	---
7	---	---	---	10.9	10.5	10.7	16.3	14.6	15.7	---	---	---
8	9.6	8.5	9.0	12.3	10.8	11.3	16.6	15.2	16.0	---	---	---
9	9.6	9.1	9.3	13.9	11.0	12.3	17.8	15.7	16.6	---	---	---
10	10.7	9.3	9.9	14.1	11.2	13.3	17.6	15.9	16.9	23.5	21.7	22.4
11	10.7	9.6	10.4	13.2	12.6	13.0	18.4	16.5	17.3	---	---	---
12	10.8	10.2	10.5	13.5	12.7	13.0	19.2	16.8	17.7	---	---	---
13	10.6	10.3	10.4	14.0	12.9	13.4	18.0	16.5	17.1	24.9	23.2	24.1
14	10.4	9.9	10.1	14.2	13.1	13.8	17.5	16.4	16.8	24.4	23.0	23.6
15	10.4	9.6	9.9	14.4	12.7	13.2	17.1	16.6	16.8	23.4	22.4	22.9
16	10.8	10.0	10.4	13.9	12.7	13.1	17.9	16.8	17.0	23.2	21.8	22.7
17	10.5	10.0	10.2	16.8	12.7	15.4	17.7	16.9	17.1	23.7	21.9	22.9
18	10.2	9.1	9.6	16.2	14.8	15.6	17.6	16.9	17.2	24.2	22.8	23.3
19	10.3	9.1	9.7	15.9	14.9	15.5	21.8	17.3	17.9	22.8	19.6	21.5
20	10.9	9.8	10.1	16.1	15.0	15.5	20.2	18.1	19.1	20.4	18.6	19.8
21	12.1	9.9	10.9	16.2	15.3	15.7	23.8	18.5	20.0	20.1	19.0	19.7
22	11.5	10.1	10.8	15.4	14.1	14.7	23.9	19.0	21.4	19.4	18.2	18.8
23	12.2	10.7	11.6	14.7	13.6	14.2	23.3	21.1	22.3	19.7	17.8	19.0
24	11.4	10.5	11.0	14.6	13.8	14.2	---	---	---	20.1	18.5	19.2
25	10.9	10.6	10.7	14.4	14.1	14.3	21.4	20.7	21.0	20.2	19.1	19.7
26	11.7	10.4	10.9	15.0	14.0	14.2	20.7	20.1	20.4	20.8	19.2	19.6
27	11.6	10.5	11.3	16.2	13.9	15.0	20.2	19.6	20.0	21.8	19.5	20.0
28	10.5	9.1	9.9	15.6	14.8	15.1	21.6	19.5	20.2	23.4	20.4	22.3
29	---	---	---	16.0	15.1	15.4	22.4	20.6	21.3	23.2	22.6	22.9
30	---	---	---	17.5	15.4	16.2	21.6	20.6	21.2	24.9	22.6	23.6
31	---	---	---	17.6	15.3	16.3	---	---	---	24.9	22.9	24.0
MONTH	---	---	---	17.6	8.9	13.5	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	26.1	23.5	24.8	28.3	27.1	27.5	29.7	28.6	29.1	27.3	26.8	27.1
2	25.9	24.1	25.0	28.5	27.5	27.9	30.1	28.9	29.5	27.2	26.7	26.9
3	27.3	24.8	26.1	28.6	27.1	27.8	30.2	29.1	29.8	27.1	26.5	26.8
4	26.5	25.0	25.8	28.8	27.3	27.9	29.8	29.1	29.4	27.3	26.8	27.0
5	26.8	24.9	25.5	29.0	27.4	27.8	29.7	28.7	29.2	27.6	26.6	26.9
6	27.1	24.9	25.7	29.0	27.9	28.5	29.8	28.6	29.3	27.5	26.6	27.0
7	26.9	25.6	26.3	28.7	27.6	28.2	29.0	27.0	28.1	27.1	26.2	26.6
8	25.7	24.3	24.9	28.2	27.6	27.9	27.2	26.1	27.0	26.8	26.0	26.4
9	24.8	23.7	24.3	28.6	27.7	28.0	26.9	26.2	26.5	26.3	25.8	26.0
10	25.0	23.5	24.3	28.8	27.4	28.1	26.8	26.0	26.4	25.9	25.3	25.6
11	25.8	24.5	24.9	28.3	27.0	27.8	27.1	26.0	26.4	26.2	25.3	25.5
12	26.3	24.3	24.9	27.4	26.0	26.6	27.2	26.0	26.4	25.9	25.1	25.4
13	27.3	24.6	25.8	26.7	25.7	26.4	27.5	26.1	26.7	25.4	24.6	25.0
14	27.1	25.2	26.2	26.8	25.9	26.4	27.8	26.4	26.8	25.7	25.0	25.3
15	27.9	26.0	26.8	27.8	26.6	26.9	27.5	26.7	26.9	26.0	25.2	25.5
16	27.2	26.4	26.8	28.1	26.7	27.3	27.8	26.9	27.2	26.0	25.3	25.7
17	27.0	26.2	26.5	28.7	26.7	27.2	28.8	27.0	27.7	26.0	25.6	25.8
18	26.7	26.1	26.4	28.9	27.0	27.6	28.5	27.3	27.7	26.3	25.6	25.9
19	26.5	25.8	26.1	28.6	27.4	27.6	28.5	27.2	27.6	26.4	25.4	26.0
20	25.8	25.3	25.6	29.6	27.6	28.1	28.6	27.2	27.6	26.8	25.7	26.2
21	25.6	24.9	25.2	29.7	28.0	28.5	29.2	27.4	28.4	27.3	26.2	26.6
22	25.8	25.1	25.4	30.0	28.1	28.7	28.6	28.1	28.4	27.1	26.5	26.7
23	25.9	25.0	25.5	29.1	28.0	28.4	29.4	28.1	28.6	27.1	26.6	26.8
24	27.0	25.2	25.5	29.0	28.4	28.6	29.7	28.0	28.9	27.0	25.6	26.5
25	26.6	25.2	25.5	28.9	28.4	28.6	29.4	28.6	29.0	25.7	24.8	25.2
26	27.6	25.2	25.6	28.8	28.2	28.5	29.2	28.7	28.9	25.5	25.0	25.2
27	27.1	25.3	26.4	29.2	28.1	28.4	29.0	28.6	28.8	26.0	25.0	25.4
28	28.2	25.9	26.8	28.9	28.0	28.3	29.0	27.9	28.6	26.9	25.7	26.1
29	27.3	26.5	26.9	28.8	28.0	28.3	28.7	27.4	28.2	26.2	25.6	26.0
30	28.5	26.6	27.1	---	---	---	28.3	27.4	27.7	25.7	25.0	25.5
31	---	---	---	30.3	28.4	29.2	27.6	26.9	27.3	---	---	---
MONTH	28.5	23.5	25.8	---	---	---	30.2	26.0	28.0	27.6	24.6	26.1

NEUSE RIVER BASIN

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	9.6	8.7	9.1	8.8	8.0	8.4	10.4	9.6	10.0
2	---	---	---	10.0	8.7	9.4	8.7	8.0	8.4	11.3	10.2	10.8
3	---	---	---	10.2	8.8	9.6	8.7	8.1	8.5	---	---	---
4	---	---	---	10.0	8.8	9.5	8.7	7.7	8.3	---	---	---
5	9.0	7.8	8.5	9.8	8.5	9.1	8.5	7.3	8.0	11.4	10.8	11.1
6	8.6	7.4	7.9	9.3	8.2	8.7	9.0	7.2	8.2	11.6	10.1	10.9
7	8.4	7.0	7.8	9.2	8.2	8.6	9.5	8.0	8.8	11.1	10.5	10.8
8	9.0	7.8	8.3	9.1	7.9	8.4	8.8	7.7	8.3	11.3	10.7	11.0
9	8.9	8.3	8.6	---	---	---	9.0	7.2	8.5	11.7	11.1	11.4
10	9.0	8.1	8.6	---	---	---	8.8	8.0	8.5	---	---	---
11	8.9	7.8	8.3	---	---	---	8.9	7.9	8.4	11.6	10.7	11.1
12	8.9	7.8	8.4	---	---	---	9.0	8.1	8.5	12.6	11.2	11.8
13	8.9	7.7	8.4	---	---	---	9.4	7.7	8.7	12.5	11.4	12.1
14	8.3	6.4	7.4	---	---	---	8.9	6.6	8.1	---	---	---
15	8.2	6.9	7.5	---	---	---	8.5	6.9	8.0	13.9	11.8	12.9
16	8.0	6.9	7.4	---	---	---	8.7	7.7	8.2	---	---	---
17	7.8	7.0	7.4	---	---	---	9.0	7.8	8.4	15.2	12.7	14.1
18	8.3	7.0	7.6	---	---	---	8.7	8.0	8.2	15.9	12.5	14.7
19	8.4	7.5	7.9	---	---	---	8.6	7.6	8.0	15.4	11.6	13.4
20	8.2	7.0	7.6	---	---	---	8.4	7.6	8.1	12.4	10.7	11.6
21	8.3	7.1	7.7	---	---	---	8.9	8.0	8.4	13.2	11.5	12.3
22	8.5	7.2	7.8	---	---	---	---	---	---	13.3	11.5	12.3
23	8.8	7.3	8.0	---	---	---	---	---	---	12.9	11.6	12.3
24	8.8	6.7	7.9	---	---	---	---	---	---	11.7	10.1	11.0
25	8.0	6.2	7.4	---	---	---	---	---	---	11.2	10.2	10.8
26	7.5	5.3	6.8	---	---	---	---	---	---	11.8	10.5	11.1
27	8.3	5.1	6.8	9.2	8.1	8.6	---	---	---	12.6	11.5	12.1
28	8.0	5.1	7.0	9.5	8.2	8.9	---	---	---	14.5	12.0	13.0
29	10.9	5.3	7.8	9.1	7.8	8.6	10.3	9.5	9.9	15.3	11.9	13.1
30	11.7	4.5	7.1	8.8	7.8	8.3	10.3	9.5	9.8	13.9	10.5	11.9
31	---	---	---	---	---	---	10.2	9.4	9.8	11.1	8.9	9.9
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	9.9	8.5	9.0	10.6	9.4	10.0	9.5	7.7	8.4	7.9	6.6	7.4
2	9.1	8.6	8.8	10.2	9.6	9.8	9.4	7.2	8.6	7.6	6.6	7.0
3	---	---	---	9.8	9.3	9.5	9.4	7.3	8.1	7.2	5.0	6.5
4	---	---	---	9.8	9.2	9.5	8.7	7.0	7.7	---	---	---
5	10.2	9.1	9.5	11.1	9.2	10.1	8.8	7.1	7.9	6.5	5.0	5.9
6	---	---	---	11.5	10.5	11.1	9.9	8.0	9.0	---	---	---
7	---	---	---	11.9	10.6	11.3	10.1	8.8	9.4	---	---	---
8	12.2	9.5	10.7	12.4	10.6	11.4	9.8	8.5	9.2	---	---	---
9	11.9	10.6	11.3	11.7	10.0	11.0	9.0	7.1	8.2	---	---	---
10	11.2	10.2	10.8	11.2	9.1	10.0	9.3	7.1	8.6	9.6	5.9	8.1
11	10.9	9.4	10.2	10.0	9.1	9.5	9.0	7.2	8.1	---	---	---
12	10.3	9.2	9.8	10.2	9.0	9.7	9.6	6.9	8.1	---	---	---
13	10.7	9.8	10.2	10.4	8.6	9.7	8.3	4.8	6.5	8.4	6.4	7.4
14	10.1	9.6	9.8	10.8	8.6	10.0	8.7	1.4	4.9	6.7	5.7	6.4
15	11.4	9.6	10.4	11.6	9.1	10.5	9.6	3.5	6.6	7.5	5.9	6.8
16	12.4	10.5	11.3	11.2	9.1	10.2	7.7	2.8	4.6	9.1	6.1	7.5
17	11.4	9.9	10.6	10.8	8.8	9.9	6.9	2.7	4.5	9.0	6.8	7.7
18	10.9	9.7	10.2	10.5	9.5	10.0	6.7	2.1	4.0	7.7	5.1	6.6
19	11.9	10.1	10.9	10.0	8.9	9.5	8.9	2.2	5.5	7.4	6.2	6.7
20	11.3	9.1	10.4	10.7	8.3	9.6	8.2	3.6	6.2	8.6	6.8	7.6
21	10.9	9.3	10.4	10.1	8.4	9.2	9.1	3.5	6.1	8.3	7.1	7.8
22	11.4	9.5	10.7	10.0	8.3	9.2	8.5	4.6	6.7	8.4	7.5	7.9
23	11.2	9.8	10.4	10.4	8.6	9.4	8.3	5.8	7.0	8.4	7.4	8.0
24	11.2	9.9	10.7	10.7	8.9	9.7	---	---	---	9.4	7.3	8.3
25	12.4	9.6	10.9	10.7	7.9	9.8	6.2	4.3	5.5	8.8	7.4	8.1
26	10.8	9.4	10.0	9.9	7.5	9.0	7.1	5.3	6.0	8.7	7.7	8.2
27	10.2	9.1	9.7	10.1	7.8	8.7	6.8	5.0	5.7	7.9	7.1	7.6
28	10.5	9.2	9.6	9.6	8.1	8.9	7.7	5.2	6.2	7.3	6.5	7.1
29	---	---	---	10.2	8.8	9.3	7.8	6.0	6.8	6.8	6.3	6.6
30	---	---	---	10.4	8.7	9.5	8.1	6.5	7.1	6.8	6.0	6.4
31	---	---	---	9.1	8.0	8.7	---	---	---	7.5	5.8	6.6
MONTH	---	---	---	12.4	7.5	9.8	---	---	---	---	---	---

NEUSE RIVER BASIN

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	97	87	92	91	82	86	88	81	85
2	---	---	---	104	88	96	92	83	88	91	85	88
3	---	---	---	108	90	99	91	84	88	---	---	---
4	---	---	---	105	91	99	89	79	85	---	---	---
5	104	86	96	101	87	94	88	75	82	91	84	87
6	98	84	91	93	82	86	92	74	84	91	80	87
7	93	79	87	91	80	84	98	81	91	90	85	87
8	98	85	91	89	78	83	91	79	86	91	85	88
9	95	89	92	---	---	---	94	73	88	93	88	90
10	97	87	92	---	---	---	89	81	86	---	---	---
11	96	85	90	---	---	---	90	80	85	97	87	91
12	98	85	91	---	---	---	91	82	85	105	91	97
13	100	85	92	---	---	---	96	77	88	104	94	101
14	91	70	82	---	---	---	90	67	83	---	---	---
15	92	77	84	---	---	---	87	71	82	119	98	110
16	91	77	83	---	---	---	87	77	83	---	---	---
17	86	76	81	---	---	---	91	79	84	131	106	120
18	89	75	82	---	---	---	87	80	83	138	107	127
19	89	79	84	---	---	---	86	76	80	133	100	115
20	89	75	82	---	---	---	82	76	79	106	93	100
21	91	76	83	---	---	---	85	76	80	114	98	105
22	96	78	86	---	---	---	---	---	---	115	98	105
23	98	81	90	---	---	---	---	---	---	111	101	106
24	102	75	91	---	---	---	---	---	---	103	89	98
25	91	71	84	---	---	---	---	---	---	102	93	97
26	83	58	75	---	---	---	---	---	---	105	92	98
27	87	55	72	95	81	88	---	---	---	115	103	108
28	82	52	71	99	83	92	---	---	---	138	108	119
29	108	53	77	95	80	88	90	82	86	142	110	122
30	116	44	70	89	78	85	89	82	84	130	97	112
31	---	---	---	---	---	---	88	81	84	106	84	94
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	95	78	84	94	83	89	102	81	89	89	74	83
2	86	80	83	90	85	87	101	77	92	87	77	80
3	---	---	---	92	85	88	104	79	89	85	58	76
4	---	---	---	90	85	87	95	75	82	---	---	---
5	87	79	82	100	82	90	90	73	82	71	57	66
6	---	---	---	104	93	99	100	82	92	---	---	---
7	---	---	---	109	95	102	103	87	94	---	---	---
8	107	82	93	114	100	107	98	87	93	---	---	---
9	103	93	99	113	97	105	95	72	84	---	---	---
10	100	92	96	109	88	97	98	74	90	118	67	98
11	98	85	92	95	86	90	94	75	85	---	---	---
12	93	81	88	97	86	92	102	74	86	---	---	---
13	97	88	92	102	83	94	90	51	69	101	77	89
14	90	85	88	106	83	99	96	15	54	81	68	76
15	102	85	92	115	91	106	108	37	73	89	68	79
16	110	94	102	116	91	105	86	31	51	108	70	87
17	103	88	95	113	90	101	76	29	50	108	78	90
18	96	85	89	107	95	101	77	22	44	90	60	78
19	104	88	95	102	89	95	102	24	62	83	71	76
20	100	82	93	109	83	97	96	41	70	94	76	83
21	103	84	96	102	85	93	108	41	71	92	78	85
22	107	88	100	99	82	90	101	50	77	91	81	85
23	105	90	96	102	83	91	96	66	81	93	80	86
24	102	90	97	108	85	95	---	---	---	107	79	91
25	112	86	98	105	78	96	69	49	62	100	81	90
26	98	85	91	99	75	90	79	59	67	103	88	94
27	94	83	89	103	79	89	74	55	62	94	81	88
28	91	82	85	96	81	89	89	57	70	86	76	83
29	---	---	---	103	86	93	90	67	77	80	74	77
30	---	---	---	104	90	97	94	72	80	81	70	76
31	---	---	---	96	84	91	---	---	---	92	69	79
MONTH	---	---	---	116	75	95	---	---	---	---	---	---

NEUSE RIVER BASIN

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	96	73	84	123	85	102	108	77	89	114	60	81
2	104	68	83	123	90	103	102	80	92	94	70	78
3	93	71	83	121	98	109	85	73	79	98	68	82
4	94	68	84	116	87	99	85	70	76	99	63	79
5	99	72	86	126	82	97	89	61	74	117	72	94
6	102	75	88	97	74	84	91	61	77	96	71	82
7	87	73	81	99	59	82	88	69	78	94	68	79
8	88	73	79	98	68	80	84	66	74	92	69	79
9	92	72	80	108	61	85	83	67	74	91	76	83
10	94	72	81	105	49	74	92	70	77	84	76	81
11	107	58	86	78	59	69	104	71	85	112	70	87
12	110	79	94	90	59	73	106	77	89	109	69	85
13	104	68	85	95	69	81	98	73	87	95	75	84
14	80	45	69	89	70	80	92	72	85	94	73	82
15	94	59	75	109	69	86	92	62	81	95	71	81
16	85	66	76	118	92	104	92	66	81	87	74	81
17	82	58	67	115	90	103	92	72	81	127	79	92
18	92	55	76	117	94	105	97	68	79	---	---	---
19	87	64	74	101	81	91	92	61	76	---	---	---
20	76	63	71	116	68	94	112	65	88	---	---	---
21	81	65	73	107	84	95	109	66	89	---	---	---
22	86	69	76	113	87	100	113	74	91	---	---	---
23	92	61	78	97	66	86	105	77	91	---	---	---
24	99	70	87	91	64	80	106	69	88	104	76	84
25	95	57	78	91	59	73	108	53	82	80	70	75
26	113	62	92	96	60	77	103	47	70	95	70	80
27	96	76	86	101	50	75	90	36	56	90	62	79
28	105	70	88	89	60	74	85	39	63	121	70	98
29	161	79	103	83	48	71	97	52	80	107	69	92
30	113	91	103	---	---	---	108	53	75	111	66	95
31	---	---	---	96	77	89	117	60	79	---	---	---
MONTH	161	45	82	---	---	---	117	36	80	---	---	---

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	96	73	83	94	56	83	86	65	76	83	76	80
2	89	43	82	94	42	70	90	56	71	85	79	82
3	93	36	80	92	33	54	91	78	87	---	---	---
4	98	44	70	101	27	73	90	64	81	---	---	---
5	70	42	55	100	64	90	83	59	73	84	75	81
6	85	37	58	101	73	88	88	69	78	83	76	80
7	86	42	78	89	73	83	81	48	70	83	78	81
8	91	79	84	93	73	82	83	53	70	85	79	82
9	88	79	85	96	76	87	91	50	75	88	82	85
10	90	77	85	92	75	84	93	67	82	---	---	---
11	86	71	79	97	79	89	93	70	80	93	76	85
12	84	54	71	93	82	88	85	66	81	93	77	88
13	86	58	74	92	84	89	88	66	81	102	84	93
14	81	58	71	93	82	88	79	57	72	---	---	---
15	85	71	77	95	85	89	78	58	71	93	74	80
16	86	73	79	93	86	89	77	67	73	---	---	---
17	85	74	79	98	82	90	82	66	74	104	74	80
18	87	74	80	92	82	87	77	70	73	102	69	79
19	85	75	81	95	80	86	76	67	70	109	69	90
20	87	60	76	100	80	88	74	66	70	103	83	95
21	85	58	73	95	85	90	75	68	72	107	79	96
22	82	49	68	92	77	85	---	---	---	108	90	99
23	77	26	46	95	77	86	---	---	---	105	90	100
24	87	16	49	89	78	85	---	---	---	102	76	92
25	90	36	72	88	77	83	---	---	---	99	77	91
26	83	69	78	87	58	76	---	---	---	100	83	91
27	80	66	74	81	58	69	---	---	---	117	72	93
28	83	68	75	83	61	72	---	---	---	110	70	92
29	85	66	76	87	54	69	81	73	78	107	54	78
30	82	59	75	88	64	79	81	71	78	96	62	77
31	97	51	79	---	---	---	80	73	77	88	67	76
MONTH	98	16	74	101	27	82	---	---	---	---	---	---

