

Water-Data Report 2007

0208062765 ROANOKE RIVER AT HALIFAX, NC

Roanoke Basin
Lower Roanoke Subbasin

LOCATION.--Lat 36°19'52", long 77°34'49" referenced to North American Datum of 1983, Halifax County, NC, Hydrologic Unit 03010107, approximately 0.5 mi east of Halifax on private dirt road and 119 river mi from mouth.

DRAINAGE AREA.--8,450 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1996 to current year. Records from November 1996 to September 1997 are unpublished and available from the USGS Water Science Center, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is at NGVD of 1929. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 47.24 ft, March 31, 1998; minimum elevation, 16.43 ft, December 8, 1997.

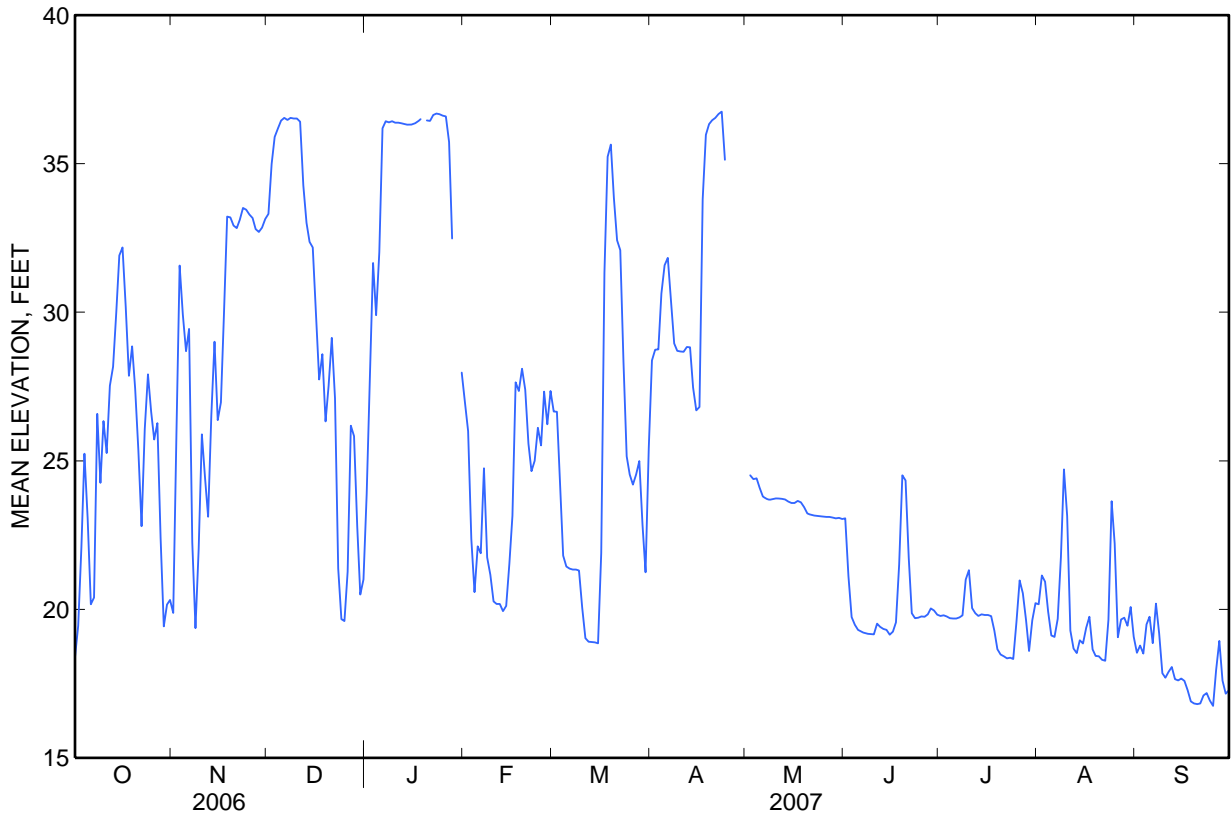
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 37.31 ft, January 27; minimum elevation, 16.71 ft, September 26.

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

ELEVATION, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	18.39	19.88	33.31	23.88	26.97	26.66	28.38	---	23.06	19.78	20.17	18.54
2	19.45	25.92	34.99	27.80	26.00	26.65	28.74	24.51	21.12	19.80	21.14	18.78
3	22.09	31.57	35.90	31.66	22.37	24.18	28.75	24.38	19.74	19.76	20.93	18.51
4	25.24	29.92	36.18	29.90	20.58	21.81	30.63	24.41	19.48	19.70	19.93	19.49
5	23.07	28.69	36.45	32.03	22.12	21.44	31.58	24.09	19.31	19.69	19.12	19.75
6	20.17	29.44	36.54	36.19	21.89	21.37	31.83	23.80	19.26	19.69	19.07	18.86
7	20.40	22.25	36.47	36.43	24.75	21.34	30.38	23.73	19.20	19.73	19.68	20.19
8	26.58	19.37	36.54	36.39	21.75	21.34	28.95	23.69	19.18	19.80	21.76	19.19
9	24.26	22.04	36.52	36.43	21.16	21.31	28.70	23.71	19.17	21.00	24.71	17.85
10	26.34	25.89	36.52	36.38	20.27	20.06	28.68	23.73	19.16	21.32	23.14	17.70
11	25.26	24.41	36.41	36.38	20.18	19.03	28.67	23.73	19.52	20.04	19.29	17.90
12	27.53	23.12	34.27	36.36	20.18	18.91	28.83	23.72	19.41	19.87	18.68	18.06
13	28.17	26.52	33.01	36.33	19.94	18.90	28.82	23.70	19.34	19.78	18.53	17.65
14	30.00	29.01	32.37	36.31	20.12	18.89	27.47	23.63	19.31	19.83	18.96	17.61
15	31.91	26.37	32.18	36.32	21.55	18.86	26.70	23.58	19.15	19.81	18.85	17.67
16	32.18	26.97	29.95	36.34	23.15	21.90	26.81	23.58	19.25	19.81	19.38	17.59
17	30.19	29.94	27.74	36.41	27.64	31.33	33.80	23.65	19.56	19.77	19.75	17.28
18	27.86	33.22	28.59	36.50	27.35	35.23	35.97	23.60	21.51	19.28	18.65	16.90
19	28.85	33.19	26.33	---	28.10	35.64	36.33	23.44	24.51	18.66	18.43	16.83
20	27.43	32.92	27.52	36.46	27.39	33.85	36.46	23.23	24.34	18.48	18.42	16.81
21	25.36	32.83	29.14	36.44	25.58	32.42	36.54	23.18	21.72	18.42	18.30	16.83
22	22.80	33.11	27.11	36.64	24.65	32.09	36.67	23.17	19.87	18.35	18.27	17.10
23	26.07	33.51	21.38	36.69	25.00	28.33	36.75	23.14	19.70	18.37	19.65	17.18
24	27.91	33.45	19.67	36.67	26.11	25.15	35.13	23.13	19.72	18.33	23.64	16.93
25	26.65	33.29	19.61	36.62	25.52	24.54	---	23.12	19.76	19.57	22.21	16.75
26	25.72	33.17	21.27	36.59	27.33	24.20	---	23.11	19.75	20.97	19.06	17.96
27	26.27	32.80	26.18	35.73	26.23	24.54	---	23.11	19.83	20.54	19.66	18.94
28	22.41	32.70	25.83	32.48	27.35	24.99	---	23.09	20.03	19.64	19.72	17.60
29	19.43	32.85	22.79	---	---	22.84	---	23.06	19.96	18.60	19.45	17.16
30	20.16	33.14	20.50	---	---	21.25	---	23.08	19.82	19.63	20.08	17.28
31	20.32	---	21.01	27.97	---	25.42	---	23.04	---	20.21	19.08	---
Mean	25.11	29.05	29.75	---	23.97	24.66	---	---	20.16	19.62	19.93	17.90
Max	32.18	33.51	36.54	---	28.10	35.64	---	---	24.51	21.32	24.71	20.19
Min	18.39	19.37	19.61	---	19.94	18.86	---	---	19.15	18.33	18.27	16.75

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued



0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1998 to current year.

pH: March 1998 to current year.

WATER TEMPERATURE: March 1998 to current year.

DISSOLVED OXYGEN: March 1998 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: March 1998 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from March 1998 to current year.

REMARKS.--Station operated to define water-quality characteristics in the Roanoke River Basin below Roanoke Rapids Dam. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 760 mm Hg beginning October 1, 2000.

COOPERATION.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources (DENR), Division of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 213 microsiemens, November 2, 2000; minimum recorded, 53 microsiemens, September 19, 2003.

pH: Maximum recorded, 8.7 standard units, March 12, 2004; minimum recorded, 6.1 standard units, September 16, 1999.

WATER TEMPERATURE: Maximum recorded, 30.9°C, July 22, 1998, August 8, 9, 2006; minimum recorded, 2.2°C, January 25, 28, 2003.

DISSOLVED OXYGEN: Maximum recorded, 16.1 mg/L, January 13, 1999; minimum recorded, 3.8, August 21, 22, 2003.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 132%, January 13, 14, 1999; minimum recorded, 47%, June 27, 2001, August 21, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 147 microsiemens, September 29; minimum recorded, 89 microsiemens, March 17, 18, 19.

pH: Maximum recorded, 8.2 standard units, on several days during the year; minimum recorded, 6.7 standard units, July 13, 14, 15.

WATER TEMPERATURE: Maximum recorded, 29.9°C, July 20; minimum recorded, 3.9°C, February 17, 19.

DISSOLVED OXYGEN: Maximum recorded, 13.4 mg/L, February 19; minimum recorded, 5.0 mg/L, August 10, 24.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 119%, September 26; minimum recorded, 62%, July 31.

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	137	134	135	130	116	124	112	111	112	120	106	110
2	135	125	130	127	112	116	113	112	112	116	106	108
3	136	118	124	113	112	113	112	111	111	113	106	107
4	134	117	120	120	113	114	111	110	110	114	106	108
5	130	118	119	125	113	115	110	110	110	114	106	107
6	136	119	128	118	113	114	110	109	110	106	104	105
7	128	115	121	124	112	115	110	109	110	104	103	103
8	120	115	116	---	---	---	---	---	---	103	102	102
9	131	115	120	128	111	116	109	108	109	103	102	102
10	129	115	117	121	111	113	109	108	109	102	101	102
11	128	115	116	122	111	114	108	107	108	102	101	102
12	123	115	116	120	108	112	111	106	107	102	102	102
13	122	115	116	118	107	110	113	106	108	103	102	102
14	118	115	116	120	109	111	114	106	108	103	102	102
15	116	115	116	126	110	113	114	107	108	103	102	102
16	116	115	116	121	104	112	117	107	109	103	102	102
17	121	115	116	111	97	106	121	107	111	103	102	102
18	125	112	115	110	107	109	118	107	109	---	---	---
19	120	114	115	111	109	110	124	107	110	---	---	---
20	124	114	116	113	111	112	118	108	110	---	---	---
21	127	114	117	113	112	112	118	108	110	---	---	---
22	129	115	119	113	110	112	118	108	110	---	---	---
23	125	113	117	111	110	110	123	108	117	---	---	---
24	122	113	114	112	110	111	127	122	125	---	---	---
25	124	113	115	112	111	111	127	118	124	---	---	---
26	124	113	115	112	110	111	121	112	114	---	---	---
27	123	113	116	111	110	111	120	106	109	---	---	---
28	123	112	115	111	110	110	119	106	110	---	---	---
29	126	122	123	112	109	110	123	107	115	---	---	---
30	128	114	124	112	110	111	125	110	119	---	---	---
31	127	114	118	---	---	---	122	116	121	---	---	---
Month	137	112	119	---	---	---	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	100	91	94	96	95	95	---	---	---
2	---	---	---	99	90	93	97	96	96	103	101	102
3	---	---	---	100	93	95	97	96	96	102	101	102
4	---	---	---	100	99	100	97	94	95	102	101	102
5	---	---	---	100	99	99	96	95	96	103	101	102
6	---	---	---	100	98	99	96	95	96	103	102	103
7	---	---	---	100	98	99	98	96	97	103	101	102
8	---	---	---	100	99	99	98	97	98	102	100	102
9	---	---	---	100	98	99	98	97	98	103	101	102
10	---	---	---	108	98	100	99	98	98	103	101	102
11	---	---	---	111	108	110	99	98	98	102	101	101
12	---	---	---	111	109	110	99	98	98	102	101	102
13	111	109	110	111	109	111	98	98	98	102	102	102
14	111	106	108	112	110	111	100	98	99	104	102	102
15	110	94	105	112	110	111	100	95	98	103	102	103
16	109	92	100	111	95	103	98	96	97	103	102	103
17	106	91	96	96	89	91	97	94	96	103	101	102
18	103	91	94	90	89	90	98	96	97	102	101	101
19	102	91	94	90	89	90	98	97	98	101	100	101
20	100	90	93	92	90	91	99	97	98	101	99	100
21	105	91	95	92	91	91	99	98	98	102	99	101
22	102	92	96	92	90	91	99	98	98	102	100	101
23	104	91	96	96	90	92	98	97	98	105	102	103
24	103	91	95	96	95	95	98	97	98	106	103	105
25	103	91	96	96	95	96	---	---	---	106	104	105
26	100	90	93	98	93	96	---	---	---	107	105	106
27	102	91	95	99	92	96	---	---	---	108	105	107
28	101	90	94	102	92	96	---	---	---	107	105	106
29	---	---	---	102	96	98	---	---	---	108	105	106
30	---	---	---	103	101	103	---	---	---	106	103	105
31	---	---	---	103	95	98	---	---	---	105	101	104
Month	---	---	---	112	89	98	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	105	101	104	118	114	116	120	109	117	132	128	130
2	109	103	104	117	114	116	114	103	107	130	127	129
3	108	103	106	117	113	115	112	100	106	131	127	129
4	109	100	106	119	115	116	113	102	108	133	117	129
5	109	103	107	117	115	116	116	111	114	129	114	118
6	111	107	109	117	114	115	116	111	114	135	127	131
7	108	105	106	117	114	115	117	109	114	131	116	121
8	115	104	112	119	115	116	117	103	108	133	115	121
9	116	109	113	117	108	115	121	105	108	136	131	134
10	115	109	113	115	105	109	122	106	109	138	134	136
11	115	108	111	121	109	117	127	121	123	140	135	138
12	113	109	111	121	118	119	128	121	124	138	126	133
13	114	108	112	121	117	120	127	122	124	139	135	137
14	114	110	112	121	118	120	125	114	116	140	135	138
15	117	113	115	120	116	118	119	115	117	139	136	138
16	116	113	115	118	116	117	121	114	118	139	135	137
17	115	112	114	117	110	114	120	108	113	140	135	137
18	116	103	112	122	113	118	121	116	119	146	138	142
19	115	103	106	126	115	121	125	120	122	145	142	143
20	114	103	106	125	121	123	122	119	120	144	141	142
21	116	100	107	126	117	123	122	118	120	143	141	142
22	119	115	117	126	118	122	124	118	122	143	138	141
23	119	114	116	125	122	124	124	111	120	138	134	136
24	116	110	114	129	118	124	122	107	109	139	133	136
25	115	113	114	129	111	126	121	106	110	143	137	140
26	114	103	105	126	106	112	125	117	122	142	124	139
27	118	104	112	126	107	114	128	120	124	138	118	121
28	116	109	113	125	108	115	124	115	119	144	126	135
29	117	113	115	132	124	128	129	122	126	147	135	143
30	118	114	116	129	112	125	126	115	120	140	127	138
31	---	---	---	119	106	112	130	116	122	---	---	---
Month	119	100	111	132	105	118	130	100	117	147	114	134

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	7.7	7.2	7.4	7.7	7.1	7.3	7.3	7.2	7.3	7.4	7.2	7.2
2	7.9	7.2	7.3	7.5	7.2	7.3	7.3	7.2	7.3	7.3	7.2	7.3
3	7.8	7.2	7.3	7.3	7.2	7.3	7.3	7.3	7.3	7.3	7.2	7.3
4	7.5	7.2	7.3	7.3	7.2	7.2	7.3	7.3	7.3	7.4	7.2	7.2
5	7.4	7.2	7.3	7.4	7.2	7.2	7.3	7.3	7.3	7.4	7.2	7.2
6	7.7	7.2	7.2	7.4	7.2	7.3	7.3	7.2	7.3	7.3	7.2	7.2
7	7.3	7.1	7.2	7.4	7.2	7.3	7.2	7.0	7.1	7.3	7.2	7.2
8	7.2	7.2	7.2	---	---	---	---	---	---	7.3	7.2	7.2
9	7.3	7.2	7.3	7.8	7.3	7.4	7.4	7.3	7.4	7.3	7.2	7.3
10	7.5	7.2	7.2	7.6	7.4	7.5	7.4	7.3	7.3	7.4	7.2	7.3
11	7.4	7.2	7.2	7.5	7.3	7.4	7.3	7.3	7.3	7.3	7.3	7.3
12	7.5	7.2	7.3	7.5	7.2	7.3	7.3	7.2	7.3	7.3	7.3	7.3
13	7.4	7.2	7.3	7.4	7.1	7.3	7.3	7.2	7.2	7.3	7.3	7.3
14	7.4	7.2	7.3	7.4	7.2	7.3	7.3	7.2	7.2	7.3	7.3	7.3
15	7.4	7.3	7.3	7.4	7.2	7.3	7.3	7.2	7.2	7.3	7.3	7.3
16	7.4	7.3	7.3	7.4	7.1	7.3	7.3	7.2	7.2	7.3	7.3	7.3
17	7.3	7.2	7.3	7.3	7.0	7.1	7.3	7.2	7.2	7.4	7.3	7.3
18	7.3	7.2	7.2	7.3	7.3	7.3	7.4	7.2	7.2	---	---	---
19	7.3	7.2	7.2	7.4	7.3	7.3	7.5	7.2	7.2	---	---	---
20	7.3	7.2	7.2	7.4	7.3	7.3	7.3	7.2	7.2	---	---	---
21	7.3	7.2	7.2	7.4	7.3	7.4	7.3	7.2	7.2	---	---	---
22	7.3	7.2	7.2	7.4	7.4	7.4	7.3	7.2	7.2	---	---	---
23	7.3	7.2	7.2	7.5	7.4	7.4	7.2	7.2	7.2	---	---	---
24	7.4	7.2	7.3	7.5	7.4	7.4	7.3	7.2	7.3	---	---	---
25	7.4	7.3	7.3	7.5	7.4	7.4	7.5	7.1	7.3	---	---	---
26	7.5	7.3	7.4	7.4	7.4	7.4	7.3	7.0	7.0	---	---	---
27	7.5	7.3	7.3	7.4	7.3	7.3	7.4	7.2	7.2	---	---	---
28	7.3	7.1	7.2	7.3	7.3	7.3	7.5	7.2	7.2	---	---	---
29	7.3	7.2	7.2	7.3	7.2	7.3	7.5	7.2	7.2	---	---	---
30	7.5	7.3	7.3	7.3	7.2	7.3	7.5	7.2	7.3	---	---	---
31	7.6	7.2	7.3	---	---	---	7.5	7.3	7.3	---	---	---
Max	7.9	7.3	7.4	---	---	---	---	---	---	---	---	---
Min	7.2	7.1	7.2	---	---	---	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

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

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

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

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	23.2	22.6	23.0	17.4	15.9	16.6	13.5	12.8	13.2	10.9	9.6	10.2
2	23.8	22.6	23.2	17.3	16.0	16.4	13.4	12.8	13.1	10.3	9.7	10
3	24.1	22.6	23.2	16.0	15.5	15.8	12.8	12.2	12.6	10.4	9.7	10.0
4	23.7	22.6	23.1	15.6	14.5	15.2	12.2	11.6	12.0	10.8	9.9	10.1
5	23.8	23.0	23.3	15.3	14.0	14.8	11.6	11.2	11.5	10.6	10.1	10.4
6	24.2	21.4	22.8	15.0	14.0	14.6	11.2	10.9	11.1	11.3	10.6	11.0
7	21.4	19.5	20.2	14.7	13.7	14.2	11.4	11.0	11.2	11.2	10.9	11.1
8	21.6	21.2	21.5	---	---	---	---	---	---	11.1	10.7	11.0
9	21.4	20.5	21.1	16.2	14.9	15.4	10.3	9.5	9.9	10.7	10.1	10.5
10	21.9	20.8	21.1	15.6	14.9	15.3	9.8	9.4	9.6	10.1	9.3	9.7
11	21.6	20.8	21.1	15.8	15.0	15.4	9.9	9.4	9.6	9.3	9.0	9.1
12	21.9	21.1	21.5	15.7	14.5	15.1	9.7	9.2	9.5	9.6	9.1	9.3
13	21.5	20.3	21.1	15.0	14.2	14.8	9.7	9.4	9.5	10.1	9.5	9.8
14	21.0	20.0	20.6	15.2	14.5	14.8	9.8	9.4	9.6	10.5	9.9	10.2
15	20.4	19.7	20.0	14.9	14.4	14.5	9.9	9.4	9.6	10.7	10.2	10.5
16	20.0	19.5	19.8	15.4	14.8	15.1	9.8	9.4	9.6	10.6	10.2	10.4
17	19.8	19.3	19.6	15.1	14.6	14.9	10.0	9.2	9.5	10.2	9.1	9.7
18	20.4	19.7	20.0	14.7	14.3	14.5	10.3	9.5	9.8	---	---	---
19	20.2	19.9	20.0	14.3	14.0	14.2	10.3	9.6	9.8	---	---	---
20	20.6	19.9	20.1	14.0	13.7	13.9	9.8	9.2	9.5	---	---	---
21	20.0	18.9	19.5	13.7	13.1	13.4	9.8	9.1	9.5	---	---	---
22	19.7	18.0	18.7	13.1	12.4	12.8	9.9	9.5	9.6	---	---	---
23	19.1	18.2	18.7	12.4	12.1	12.2	10.9	9.9	10.5	---	---	---
24	18.2	16.4	17.4	12.3	12.0	12.1	10.5	9.9	10.2	---	---	---
25	16.9	15.6	16.3	12.5	11.9	12.1	10.2	9.6	9.9	---	---	---
26	16.4	15.1	15.8	12.5	12.1	12.3	10.7	10.0	10.5	---	---	---
27	16.4	15.5	15.9	12.6	12.1	12.3	10.3	9.6	9.8	---	---	---
28	16.6	15.8	16.2	12.6	12.1	12.3	10.0	9.2	9.5	---	---	---
29	16.2	15.1	15.6	12.8	12.2	12.5	9.9	9.2	9.4	---	---	---
30	16.4	15.2	15.7	13.1	12.5	12.7	9.7	9.2	9.4	---	---	---
31	16.6	15.7	16.0	---	---	---	10.3	9.7	10	---	---	---
Month	24.2	15.1	19.7	---	---	---	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	7.3	6.1	6.5	13.3	12.8	13.0	---	---	---
2	---	---	---	8.3	6.9	7.7	14.6	13.1	13.8	21.5	18.1	19.5
3	---	---	---	8.9	7.3	7.9	14.7	13.8	14.3	21.5	18.5	19.6
4	---	---	---	9.0	7.7	8.2	15.4	13.3	14.1	18.8	17.8	18.3
5	---	---	---	8.8	7.0	7.8	15.4	14.2	14.7	18.8	18.2	18.5
6	---	---	---	8.9	7.5	8.1	14.3	13.3	13.8	18.7	17.9	18.2
7	---	---	---	8.6	7.1	7.9	14.2	13.6	13.9	18.5	16.5	17.5
8	---	---	---	8.8	7.6	8.2	13.9	12.7	13.2	18.4	16.6	17.3
9	---	---	---	8.9	7.3	8.1	13.2	12.3	12.7	18.1	17.2	17.6
10	---	---	---	8.9	7.6	8.3	13.6	12.2	12.8	19.2	17.1	18.0
11	---	---	---	9.7	8.8	9.5	13.3	12.4	12.6	19.8	17.7	18.7
12	---	---	---	9.8	9.3	9.6	14.4	12.9	13.5	19.7	18.2	18.6
13	5.8	5.1	5.4	10.4	9.4	9.8	14.3	13.2	13.7	18.8	18.2	18.5
14	5.4	5.0	5.1	10.3	9.6	10.0	14.2	13.3	13.7	20.5	17.8	18.9
15	5.4	4.2	4.7	11.9	10.3	11.0	14.4	13.6	13.9	20.7	18.6	19.6
16	5.3	4.4	4.6	12.3	10.2	11.3	14.3	13.4	13.8	21.9	20.3	20.9
17	5.1	3.9	4.5	10.6	9.6	10.0	13.7	12.7	13.2	21.9	20.3	20.7
18	5.2	4.4	4.7	9.6	8.8	9.1	13.6	12.9	13.2	20.3	19.4	19.6
19	5.3	3.9	4.5	9.3	8.6	8.9	13.5	13.1	13.3	20.4	18.7	19.5
20	5.3	4.4	4.7	10.0	8.9	9.3	13.7	13.1	13.4	21.1	19.1	20.0
21	6.0	5.0	5.4	9.9	9.4	9.6	14.4	13.3	13.8	21.4	19.7	20.5
22	6.9	5.3	5.8	10.8	9.5	10.0	14.9	13.9	14.3	21.4	19.7	20.4
23	7.0	5.5	6.3	11.9	10.1	10.7	15.5	14.3	14.8	21.7	19.5	20.5
24	6.9	5.6	6.2	12.9	11.1	11.8	16.1	14.7	15.2	21.9	19.9	20.8
25	6.9	6.1	6.3	13.4	11.8	12.5	---	---	---	22.5	20.1	21.2
26	6.8	6.1	6.2	13.4	10.3	11.6	---	---	---	23.0	21.4	21.9
27	7.4	5.8	6.3	14.6	11.9	13.0	---	---	---	23.0	21.1	22.0
28	7.3	6.1	6.5	14.6	12.5	13.6	---	---	---	24.3	21.6	22.5
29	---	---	---	13.8	11.9	12.6	---	---	---	24.7	23.3	24.0
30	---	---	---	14.0	11.8	12.8	---	---	---	24.7	22.0	23.2
31	---	---	---	14.2	12.2	13.0	---	---	---	24.2	22.1	23.1
Month	---	---	---	14.6	6.1	9.9	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	24.6	22.3	23.4	27.9	26.2	26.8	28.0	26.9	27.3	28.0	26.9	27.5
2	24.6	22.5	23.1	26.8	25.4	26.1	28.4	25.6	26.6	26.9	26.0	26.4
3	23.2	21.9	22.4	27.1	25.8	26.4	28.2	25.7	26.7	26.8	26.1	26.6
4	24.1	22.1	22.7	27.1	25.6	26.3	27.7	26.2	26.9	28.2	26.7	27.2
5	25.1	24.1	24.5	28.0	26.3	27.0	27.8	26.9	27.2	27.3	26.2	26.8
6	25.4	24.6	25.0	28.2	27.0	27.6	27.4	26.5	27.0	28.2	27.0	27.7
7	26.0	24.6	25.2	28.2	27.3	27.8	28.4	27.1	27.7	28.1	26.1	26.9
8	26.6	25.8	26.2	27.5	26.1	26.8	29.1	27.4	28.1	27.6	26.0	26.6
9	27.1	26.0	26.6	27.9	26.2	26.9	29.7	28.2	28.8	27.1	26.3	26.8
10	26.4	25.0	25.6	27.6	26.5	27.0	28.8	27.9	28.3	27.7	26.6	27.2
11	25.6	24.2	24.8	27.4	26.0	26.6	28.9	27.8	28.2	28.0	27.3	27.6
12	25.9	25.2	25.4	28.9	26.5	27.8	28.0	27.5	27.8	27.9	27.0	27.5
13	26.0	24.7	25.2	28.9	26.0	26.9	28.8	28.0	28.4	27.5	26.6	27.1
14	25.2	23.4	24.1	27.5	25.2	26.1	29.0	27.9	28.4	26.8	26.0	26.5
15	24.1	23.1	23.5	28.3	26.7	27.3	28.9	27.8	28.2	26.4	25.4	26.1
16	24.4	23.8	24.1	29.3	27.6	28.4	29.4	28.1	28.5	25.4	24.2	24.8
17	25.4	24.0	24.6	29.4	28.1	28.6	28.4	27.1	27.6	24.9	23.7	24.4
18	25.6	24.6	25.1	28.7	27.2	27.8	28.3	27.4	27.8	24.8	23.6	24.1
19	26.4	25.0	25.5	29.7	28.0	28.9	28.0	27.0	27.3	24.0	23.5	23.8
20	25.9	24.9	25.6	29.9	28.0	28.9	28.7	27.2	27.8	23.7	23.4	23.5
21	25.6	24.5	25.0	28.0	26.8	27.3	29.4	28.6	29.0	24.3	23.4	23.8
22	26.1	24.8	25.3	27.0	26.2	26.6	29.0	28.1	28.6	25.6	23.9	24.7
23	26.7	25.0	25.6	27.0	26.3	26.7	29.2	27.7	28.6	26.1	24.9	25.4
24	26.0	24.9	25.4	27.4	26.6	27.0	28.8	27.0	27.6	25.9	24.4	25.2
25	26.1	24.8	25.5	28.4	26.7	27.2	28.7	27.7	28.2	25.2	23.8	24.4
26	26.2	25.6	25.9	28.3	25.6	26.5	29.2	27.1	28.3	25.4	23.8	24.5
27	26.8	26.0	26.2	27.6	25.8	26.6	27.9	26.8	27.3	24.8	23.9	24.4
28	27.0	25.6	26.3	27.0	25.5	26.2	27.9	26.7	27.4	25.3	24.1	25.0
29	27.2	26.2	26.6	27.6	26.6	27.1	28.6	27.7	28.1	24.3	23.2	23.9
30	27.5	26.6	27.0	27.2	25.8	26.5	27.9	26.3	26.9	24.0	23.1	23.5
31	---	---	---	27.2	24.8	25.7	27.9	26.8	27.4	---	---	---
Month	27.5	21.9	25.0	29.9	24.8	27.1	29.7	25.6	27.8	28.2	23.1	25.7

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	8.2	7.0	7.5	10.2	8.7	9.2	---	---	---	10.3	9.7	9.9
2	8.5	6.9	7.5	9.8	8.6	9.2	---	---	---	10.5	9.9	10.1
3	8.4	6.7	7.2	9.2	8.8	9.0	---	---	---	10.4	9.9	10.1
4	7.8	6.7	7.0	9.5	8.6	8.9	---	---	---	10.8	9.8	10.0
5	7.1	6.6	6.9	10.0	8.7	9.1	---	---	---	10.5	9.9	10.1
6	8.2	6.8	7.3	9.6	8.9	9.2	---	---	---	10.1	9.8	10
7	---	---	---	9.2	8.3	8.8	---	---	---	10.1	9.8	9.9
8	---	---	---	---	---	---	---	---	---	10.1	9.8	9.9
9	---	---	---	10.2	8.4	9.0	9.9	9.4	9.7	10.2	9.9	10.1
10	---	---	---	10.0	8.8	9.2	9.8	9.5	9.7	10.5	10.0	10.3
11	---	---	---	9.9	8.7	9.2	9.8	9.5	9.6	10.6	10.3	10.5
12	---	---	---	9.6	8.5	8.9	10.0	9.3	9.6	10.5	10.2	10.3
13	---	---	---	9.7	8.6	8.9	9.9	9.2	9.6	10.4	10.1	10.3
14	---	---	---	9.6	8.7	9.0	9.8	9.3	9.6	10.5	10.1	10.3
15	---	---	---	9.9	8.6	8.8	9.8	9.3	9.6	10.5	10.2	10.3
16	---	---	---	9.4	8.4	8.9	10.2	9.3	9.6	10.5	10.2	10.3
17	---	---	---	9.2	8.2	8.6	10.2	9.3	9.7	10.8	10.3	10.6
18	---	---	---	9.0	8.7	8.9	10.1	9.3	9.6	---	---	---
19	---	---	---	9.2	8.6	8.9	10.7	9.4	9.6	---	---	---
20	7.9	7.0	7.3	9.3	8.8	9.0	10.3	9.5	9.8	---	---	---
21	8.3	7.2	7.5	---	---	---	10.2	9.5	9.8	---	---	---
22	8.1	7.3	7.7	---	---	---	9.9	9.5	9.7	---	---	---
23	8.0	7.3	7.7	---	---	---	9.9	9.3	9.6	---	---	---
24	8.4	7.5	7.9	---	---	---	10.2	9.6	9.9	---	---	---
25	8.8	7.9	8.2	---	---	---	10.7	9.8	10.2	---	---	---
26	8.9	8.1	8.5	---	---	---	10.4	9.4	9.7	---	---	---
27	9.0	8.1	8.4	---	---	---	10.6	9.5	9.9	---	---	---
28	8.4	7.7	8.0	---	---	---	10.9	9.8	10.1	---	---	---
29	8.9	8.0	8.5	---	---	---	10.9	10.0	10.2	---	---	---
30	9.3	8.4	8.9	---	---	---	11.0	10.2	10.5	---	---	---
31	9.1	8.2	8.7	---	---	---	11.0	10.0	10.4	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	13.0	12.3	12.5	10.9	10.2	10.5	---	---	---
2	---	---	---	12.8	11.9	12.2	10.7	10.2	10.4	10.1	8.2	8.8
3	---	---	---	12.4	11.8	12.0	10.6	9.8	10.2	9.6	7.9	8.4
4	---	---	---	12.5	11.7	12.1	10.4	9.8	10	8.9	7.8	8.2
5	---	---	---	12.6	11.9	12.2	10.1	9.5	9.7	8.9	7.9	8.3
6	---	---	---	12.7	11.8	12.2	10.0	9.5	9.7	9.8	8.0	8.5
7	---	---	---	12.7	12.0	12.2	10.2	9.5	9.7	9.9	8.0	8.8
8	---	---	---	12.6	11.8	12.2	10.5	9.6	9.9	9.8	8.2	8.7
9	---	---	---	12.8	12.0	12.3	10.4	9.8	10.0	9.2	8.1	8.5
10	---	---	---	12.8	12.0	12.2	10.6	9.8	10.1	9.5	8.0	8.5
11	---	---	---	12.4	11.6	11.9	10.5	9.7	9.9	9.5	7.9	8.6
12	---	---	---	12.2	11.3	11.8	10.5	9.6	9.9	9.3	7.6	8.1
13	12.9	12.2	12.5	11.9	11.3	11.6	10.6	9.6	10	8.6	7.5	7.9
14	12.6	12.1	12.4	11.8	11.1	11.4	10.4	9.6	9.9	9.5	7.6	8.3
15	13.3	12.3	12.6	11.8	10.8	11.2	10.4	9.4	9.6	9.5	7.6	8.3
16	13.3	12.4	12.7	11.4	10.5	11.1	10.6	9.2	9.7	9.4	7.5	8.3
17	13.2	12.6	12.8	11.8	11.1	11.5	10.4	9.8	9.9	9.2	7.1	7.7
18	13.1	12.3	12.6	12.0	11.5	11.7	10.2	9.8	10	8.2	7.2	7.6
19	13.4	12.4	12.8	12.0	11.6	11.8	10.1	9.8	9.9	9.2	7.3	7.9
20	13.0	12.5	12.7	12.0	11.6	11.8	10.2	9.7	10	9.3	7.4	8.2
21	13.0	12.5	12.7	11.9	11.5	11.7	10.3	9.8	10	9.3	7.5	8.2
22	12.9	12.4	12.6	11.9	11.5	11.7	10.3	9.8	10	9.2	7.4	8.1
23	12.9	12.3	12.6	11.8	11.1	11.4	10.1	9.7	9.9	9.1	7.1	8.0
24	12.9	12.3	12.6	11.7	10.8	11.2	9.9	9.4	9.6	9.1	7.2	8.0
25	12.8	12.3	12.5	11.5	10.7	11.0	---	---	---	9.1	7.3	8.0
26	13.1	12.3	12.5	11.6	10.8	11.1	---	---	---	9.0	7.1	7.8
27	13.2	12.4	12.6	11.4	10.3	10.8	---	---	---	8.8	6.8	7.6
28	13.0	12.4	12.6	11.1	10.3	10.6	---	---	---	8.7	6.8	7.6
29	---	---	---	10.8	10.1	10.4	---	---	---	8.6	6.8	7.5
30	---	---	---	11.1	10.1	10.5	---	---	---	8.5	6.9	7.6
31	---	---	---	11.1	10.2	10.7	---	---	---	8.4	6.5	7.4
Month	---	---	---	13.0	10.1	11.6	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	8.3	6.6	7.3	7.9	6.5	7.1	7.9	6.3	7.0	8.0	6.1	7.0
2	8.1	6.3	6.8	8.1	6.7	7.2	7.9	5.5	6.2	8.2	6.5	7.2
3	8.1	6.3	7.0	8.0	6.7	7.2	7.8	5.4	6.2	8.2	6.5	7.3
4	8.0	6.2	6.9	8.0	6.7	7.2	7.4	5.7	6.2	8.7	6.3	7.5
5	8.2	6.2	7.1	8.0	6.9	7.3	7.6	6.0	6.7	6.6	5.3	5.7
6	8.2	6.1	7.1	8.0	6.6	7.2	7.6	6.2	6.7	8.5	6.3	7.2
7	8.5	6.4	7.3	7.8	6.6	7.1	7.8	6.2	6.9	8.4	5.2	6.1
8	8.3	6.2	7.2	7.6	6.4	6.9	7.7	5.6	6.0	6.8	5.5	5.9
9	8.2	5.9	7.0	7.9	5.9	6.9	7.1	5.3	5.6	8.0	6.2	7.0
10	8.2	6.1	7.1	7.4	5.5	6.0	6.2	5.0	5.2	7.7	6.3	6.9
11	8.3	6.3	7.2	7.4	6.0	6.5	6.7	5.7	6.1	8.2	6.6	7.3
12	8.4	6.4	7.3	7.5	6.3	6.8	6.8	5.6	6.2	8.2	6.4	6.9
13	8.3	6.8	7.4	7.4	6.1	6.7	7.5	5.8	6.6	8.2	6.7	7.3
14	8.3	6.7	7.3	7.7	6.4	6.8	7.4	6.2	6.7	8.6	6.7	7.5
15	8.0	7.1	7.4	7.8	6.4	7.0	7.7	5.9	6.6	8.3	6.6	7.3
16	8.2	6.7	7.4	7.8	6.6	7.1	7.8	6.2	6.9	8.4	7.3	7.8
17	8.3	6.5	7.3	7.8	6.5	7.0	6.8	5.3	5.7	8.9	7.3	7.9
18	8.4	6.5	7.3	7.4	5.9	6.5	7.4	5.9	6.4	8.8	7.6	8.1
19	8.2	6.2	6.6	7.2	6.1	6.6	7.7	6.0	6.7	9.0	7.4	8.1
20	7.5	6.3	6.7	7.2	5.8	6.4	7.8	6.2	6.9	8.5	7.2	7.8
21	7.8	6.2	6.5	7.1	6.2	6.5	7.9	5.9	6.9	8.0	7.1	7.6
22	8.1	6.3	7.1	7.4	6.2	6.7	7.8	6.1	6.8	8.2	7.0	7.5
23	8.1	6.4	7.1	7.5	6.2	6.8	7.8	5.9	6.8	8.5	6.9	7.5
24	8.1	6.5	7.2	7.5	6.4	6.9	7.2	5.0	5.5	8.6	7.1	7.7
25	8.0	6.4	6.9	7.7	5.6	6.8	6.5	5.5	5.7	8.6	7.1	7.9
26	7.8	6.5	7.1	7.5	5.2	5.8	7.5	6.0	6.7	9.8	7.6	8.2
27	7.7	6.3	7.0	7.3	5.4	5.9	7.8	6.0	6.6	8.3	6.7	7.0
28	7.8	6.2	6.8	6.8	5.6	5.9	7.3	5.2	5.8	8.6	6.8	7.4
29	7.9	6.4	7.0	7.3	5.9	6.6	8.2	6.3	7.0	8.4	7.0	7.7
30	8.0	6.4	7.1	7.5	6.0	6.7	8.2	5.1	5.9	9.0	7.8	8.2
31	---	---	---	7.5	5.1	5.9	8.2	6.2	6.6	---	---	---
Month	8.5	5.9	7.1	8.1	5.1	6.7	8.2	5.0	6.4	9.8	5.2	7.3

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	96	82	88	107	90	95	---	---	---	93	86	88
2	101	81	88	102	88	95	---	---	---	94	88	90
3	100	79	85	93	88	91	---	---	---	92	88	90
4	92	78	83	95	86	89	---	---	---	97	87	89
5	84	77	81	99	86	90	---	---	---	95	88	90
6	98	78	85	95	87	91	---	---	---	92	89	90
7	---	---	---	91	81	86	---	---	---	92	89	90
8	---	---	---	---	---	---	---	---	---	92	89	90
9	---	---	---	104	85	90	88	84	86	92	89	90
10	---	---	---	101	88	92	87	84	85	93	88	91
11	---	---	---	100	87	92	87	83	85	93	89	91
12	---	---	---	95	84	89	88	81	84	92	89	90
13	---	---	---	96	84	88	87	81	84	93	89	91
14	---	---	---	95	86	89	87	81	84	94	90	92
15	---	---	---	98	84	87	87	81	84	95	91	93
16	---	---	---	94	84	88	90	81	84	94	91	93
17	---	---	---	91	81	85	91	81	85	95	91	93
18	---	---	---	89	85	87	90	82	85	---	---	---
19	---	---	---	90	84	87	96	83	85	---	---	---
20	88	78	81	90	85	87	91	83	86	---	---	---
21	90	78	82	---	---	---	90	83	86	---	---	---
22	87	78	83	---	---	---	87	83	85	---	---	---
23	86	78	83	---	---	---	88	84	86	---	---	---
24	87	79	82	---	---	---	91	86	88	---	---	---
25	90	80	84	---	---	---	95	87	90	---	---	---
26	91	81	86	---	---	---	94	84	87	---	---	---
27	92	82	85	---	---	---	94	84	87	---	---	---
28	85	79	82	---	---	---	97	86	89	---	---	---
29	90	81	86	---	---	---	97	87	89	---	---	---
30	94	85	89	---	---	---	97	89	92	---	---	---
31	94	83	88	---	---	---	98	89	92	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	108	100	102	104	97	100	---	---	---
2	---	---	---	106	100	103	105	97	101	111	87	96
3	---	---	---	107	99	102	105	95	100	109	86	92
4	---	---	---	108	98	103	102	94	97	96	82	88
5	---	---	---	108	98	103	100	93	96	96	84	88
6	---	---	---	109	99	103	98	91	94	105	85	91
7	---	---	---	109	99	103	99	92	94	106	82	92
8	---	---	---	108	99	104	101	91	95	105	84	91
9	---	---	---	111	100	104	99	92	95	98	84	89
10	---	---	---	111	101	104	102	92	95	103	83	90
11	---	---	---	109	102	105	101	91	93	104	83	92
12	---	---	---	108	99	104	103	91	95	102	81	87
13	103	96	99	107	99	102	104	92	96	92	80	84
14	99	95	97	105	99	102	102	92	96	106	80	89
15	105	96	99	107	99	102	102	91	93	106	82	91
16	105	96	99	107	97	101	104	89	94	107	83	93
17	104	97	99	105	98	102	100	93	95	105	79	86
18	103	95	98	105	99	102	98	93	95	91	78	83
19	106	95	99	105	100	102	97	94	95	102	78	87
20	101	97	99	107	100	103	99	92	96	105	80	91
21	105	99	101	105	101	103	101	94	97	105	82	92
22	106	99	101	107	101	104	102	95	98	104	81	90
23	107	99	102	110	100	103	102	95	98	104	78	89
24	106	98	102	109	99	103	101	93	96	104	80	90
25	105	99	101	110	99	104	---	---	---	104	81	91
26	108	99	101	111	97	102	---	---	---	104	81	90
27	110	99	103	110	98	103	---	---	---	103	77	87
28	108	101	103	109	98	102	---	---	---	103	77	88
29	---	---	---	105	95	98	---	---	---	104	80	90
30	---	---	---	107	94	100	---	---	---	103	79	89
31	---	---	---	108	95	101	---	---	---	101	76	86
Month	---	---	---	111	94	103	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	100	77	86	101	81	89	101	79	89	103	77	89
2	98	73	80	101	82	90	102	68	78	103	81	89
3	95	72	81	101	83	90	100	66	77	103	82	91
4	96	73	80	101	82	89	94	71	78	112	80	95
5	99	75	86	103	87	93	97	75	84	83	66	72
6	100	74	86	103	83	91	96	78	84	109	80	91
7	104	78	90	100	84	90	101	79	88	108	64	77
8	104	77	89	96	80	87	101	71	77	85	68	74
9	103	74	88	101	74	87	92	68	73	101	78	87
10	102	74	88	94	69	76	80	64	67	97	80	88
11	102	76	87	94	74	81	87	73	79	105	84	93
12	103	78	89	96	79	86	87	72	79	105	82	88
13	103	82	90	96	75	84	97	75	86	104	85	93
14	101	79	87	98	78	84	97	80	87	108	83	94
15	96	84	87	100	80	88	100	76	85	103	82	90
16	98	80	89	101	84	91	103	80	89	102	88	94
17	102	78	88	103	84	91	87	67	72	107	88	95
18	103	79	89	96	75	82	95	75	81	104	91	97
19	102	77	81	93	80	86	99	76	85	107	88	96
20	92	77	82	95	75	84	99	80	88	100	85	92
21	96	76	79	91	78	83	103	78	90	94	85	90
22	100	76	87	93	77	84	102	79	88	98	86	91
23	101	78	87	94	78	85	102	75	89	103	85	92
24	100	79	87	95	81	87	93	63	70	104	85	94
25	99	77	85	99	70	86	84	70	74	103	85	95
26	97	80	87	97	64	72	98	78	86	119	92	99
27	97	78	87	93	67	73	100	76	83	100	80	84
28	98	76	84	86	69	73	93	65	73	105	82	90
29	100	80	88	93	74	83	106	81	90	100	84	92
30	102	81	90	95	74	84	105	64	74	106	92	97
31	---	---	---	95	62	73	105	78	84	---	---	---
Month	104	72	86	103	62	85	106	63	82	119	64	90