

0209318667 NEW RIVER AT CHANNEL LIGHT 50

LOCATION.--Lat 34°41'51", long 77°24'15", Onslow County, Hydrologic Unit 03030001, at U.S. Coast Guard Channel Light 50.

PERIOD OF RECORD.--Water years 2000 to March 2002 (discontinued).

PERIOD OF DAILY RECORD.--

SALINITY (TOP AND BOTTOM): November 1999 to March 2002.

pH (TOP AND BOTTOM): November 1999 to March 2002.

WATER TEMPERATURE (TOP AND BOTTOM): November 1999 to March 2002.

DISSOLVED OXYGEN (TOP AND BOTTOM): November 1999 to March 2002.

DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): November 1999 to March 2002.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from November 1999 to March 2002.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. Top constituents were monitored at 8 ft above the streambed and bottom constituents, 2 ft above the streambed. Salinity and dissolved oxygen, percent saturation are computed. The dissolved oxygen percent saturation is computed using a barometric pressure of 760mm Hg beginning October 1, 2000. 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	25.4, December 4, 2001	2.0, September 26, 2000
SALINITY (BOTTOM), ppt	26.9, December 15, 16	4.6, May 29, September 29, 2000
pH (TOP), standard units	8.8, November 21, 1999, March 8, 9, 10, 11, 12, 13, 2002	6.7, September 25, 2000
pH (BOTTOM), standard units	8.6, February 13, 2001	6.6, September 28, 2000
WATER TEMPERATURE (TOP), °C	32.5, July 18, 2000	1.4, January 1, 2001
WATER TEMPERATURE (BOTTOM), °C	31.6, August 10, 2001	2.0, January 28, 2000
DISSOLVED OXYGEN (TOP), mg/L	15.6, January 30, 2000	1.2, September 9, 2000
DISSOLVED OXYGEN (BOTTOM), mg/L	13.4, January 30, 2000	<1.0, on many days during the period
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	178, July 8, 2000	15, September 9, 2000
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	123, February 19, 2000	<10, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	25.4, December 4	11.5, March 10
SALINITY (BOTTOM), ppt	26.9, December 15, 16	17.2, March 10
pH (TOP), standard units	8.8, March 8, 9, 10, 11, 12, 13	7.5, October 10, 13, 16, 17, 24
pH (BOTTOM), standard units	8.2, December 10	7.2, October 6, 7, 8
WATER TEMPERATURE (TOP), °C	23.5, October 25	7.3, January 14
WATER TEMPERATURE (BOTTOM), °C	22.0, October 15, 16, 17	8.0, January 15
DISSOLVED OXYGEN (TOP), mg/L	12.9, March 8	5.4, October 3
DISSOLVED OXYGEN (BOTTOM), mg/L	11.5, January 22	3.0, March 15
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	128, March 8	59, October 3
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	102, January 22	30, March 15

