

02084557 VAN SWAMP NEAR HOKE, NC—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1993-96, 2002 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 2002 to July 2004.

WATER TEMPERATURE: April 2002 to July 2004.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from April 2002 to July 2004.

REMARKS.--Station operated as part of the NAWQA program April 2002 to current year. Station was operated March 1993 to September 1996 as part of the Albemarle-Pamlico NAWQA program.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	205, November 21, 22, 2002	55, July 25, 2002
WATER TEMPERATURE, °C	27.2, August 24, 2002	2.3, January 24, 2003

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	143, December 20, 21, 22, 23	67, July 21
WATER TEMPERATURE, °C	25.6, July 14	5.0, January 25, 26, February 2

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Medium code	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)
OCT 21...	1430	9	13	754	5.8	60	3.5	131	16.2	7.31	19.0	.27	.21
DEC 22...	1100	9	127	770	--	--	3.4	141	8.7	6.67	22.0	.09	.07
FEB 19...	0830	9	56	764	8.5	69	3.6	113	6.8	7.38	27.1	--	E.03
MAR 17...	0900	9	62	760	8.7	79	3.9	104	11.2	6.96	35.0	--	<.04
APR 15...	0900	9	44	760	7.6	72	4.1	110	12.8	7.10	32.9	--	E.03
MAY 14...	0930	9	9.2	770	6.7	70	3.2	113	17.6	7.28	29.7	.12	.09
JUN 10...	1030	9	35	762	6.2	69	3.6	105	20.6	7.29	33.6	.16	.13
JUL 15...	0945	9	7.3	754	5.0	60	4.0	98	24.3	7.24	28.6	1.11	.86
AUG 12...	1030	D	18	--	6.4	--	3.3	106	21.1	--	--	--	--
19...	0900	9	109	762	4.3	48	3.5	141	20.5	6.49	39.1	.21	.16
SEP 23...	0930	9	10	764	6.6	81	3.6	108	25.7	6.53	12.5	.24	.19

02084557 VAN SWAMP NEAR HOKE, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Ortho-phosphate, water, fltrd, mg/L (00660)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Biomass periphyton, ashfree drymass g/m2 (49954)	Periphyton biomass ash weight, g/m2 (00572)
OCT 21...	<.06	E.005	.04	.025	.008	.026	1.72	.6	<.1	.6	54.5	--	--
DEC 22...	1.20	<.008	<.02	--	E.004	.043	2.42	.4	<.1	.4	39.0	--	--
FEB 19...	.36	<.008	.03	--	E.003	.014	1.06	.7	<.1	.7	28.5	--	--
MAR 17...	.23	<.008	.12	--	<.006	.027	.99	1.9	<.1	1.9	22.7	--	--
APR 15...	.46	<.008	.10	--	<.006	.018	1.29	1.2	<.1	1.2	26.4	--	--
MAY 14...	E.04	<.008	.10	--	E.004	.025	1.38	1.6	<.1	1.6	41.4	--	--
JUN 10...	.32	<.008	.17	--	<.006	.024	1.19	3.0	<.1	3.0	29.2	--	--
JUL 15...	<.06	<.008	.43	--	<.006	.047	2.50	10.2	<.1	10.2	47.2	--	--
AUG 12...	--	--	--	--	--	--	--	--	--	--	--	1.2	4.0
19...	1.55	<.008	.04	--	E.005	.023	2.80	1.0	<.1	1.0	38.5	--	--
SEP 23...	E.06	<.008	.12	--	E.003	.025	1.64	2.4	<.1	2.3	45.9	--	--

Date	Periphyton biomass dry weight, g/m2 (00573)	Biomass chlorophyll ratio, periphyton, number (70950)	Pheophytin a, periphyton, mg/m2 (62359)	Chlorophyll a periphyton, chromofluoro, mg/m2 (70957)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
OCT 21...	--	--	--	--	95	19	.67
DEC 22...	--	--	--	--	46	18	6.2
FEB 19...	--	--	--	--	92	8	1.2
MAR 17...	--	--	--	--	85	21	3.5
APR 15...	--	--	--	--	49	24	2.9
MAY 14...	--	--	--	--	81	20	.50
JUN 10...	--	--	--	--	64	34	3.2
JUL 15...	--	--	--	--	96	28	.55
AUG 12...	5.200	465	7.3	2.6	--	--	--
19...	--	--	--	--	92	48	14
SEP 23...	--	--	--	--	89	11	.30

Remark codes used in this table:  
 < -- Less than  
 E -- Estimated value

Medium codes used in this table:  
 9 -- Surface water  
 D -- Plant tissue

## PAMLICO RIVER BASIN

02084557 VAN SWAMP NEAR HOKE, NC—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	131	128	129	124	123	123	128	126	127	140	139	139
2	133	130	132	125	123	124	128	126	127	140	140	140
3	136	133	134	127	125	126	128	126	127	141	140	140
4	139	135	137	129	127	128	128	126	127	140	139	140
5	140	138	139	131	128	130	126	123	125	140	139	139
6	141	139	140	132	130	131	127	123	126	139	137	138
7	141	139	140	131	130	130	124	121	122	138	137	137
8	142	140	141	131	129	130	123	121	122	137	136	136
9	142	140	141	131	129	130	123	121	122	136	134	135
10	141	140	141	131	129	130	123	118	122	134	132	133
11	141	139	140	132	130	131	121	100	113	133	131	132
12	140	138	139	132	129	131	120	114	116	132	131	131
13	140	138	139	132	130	131	123	120	121	131	130	131
14	140	137	138	132	130	131	123	111	119	131	130	130
15	138	135	136	132	130	131	128	120	124	130	129	130
16	137	134	135	132	131	131	133	128	131	130	129	129
17	135	134	134	132	131	131	138	133	136	129	128	129
18	136	134	135	132	131	132	141	138	139	129	127	128
19	136	134	135	133	128	131	142	140	141	128	127	128
20	136	134	135	131	124	128	143	141	142	128	127	127
21	137	134	136	124	117	119	143	142	142	127	125	126
22	137	135	136	119	118	118	143	142	143	126	125	125
23	138	136	137	120	118	119	143	142	143	126	124	125
24	139	136	138	121	119	120	142	132	136	125	124	125
25	139	137	138	123	120	121	138	134	136	125	121	124
26	140	137	139	124	122	123	140	138	139	122	119	120
27	140	138	139	125	124	124	140	139	139	119	117	118
28	141	133	138	125	124	125	140	138	139	117	115	116
29	137	112	123	127	125	126	139	138	139	116	115	116
30	120	116	118	127	125	126	139	138	138	115	114	115
31	123	120	121	---	---	---	139	138	139	115	114	115
MONTH	142	112	136	133	117	127	143	100	131	141	114	129
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	116	115	115	118	116	117	116	115	116	117	116	116
2	117	115	116	119	117	118	117	114	115	117	115	116
3	117	116	117	120	118	119	115	113	114	116	104	112
4	118	117	117	120	119	119	115	113	114	111	105	108
5	118	117	118	120	119	120	115	113	114	107	105	106
6	118	117	118	121	119	120	115	113	114	108	107	107
7	119	118	118	120	118	119	115	114	114	111	108	109
8	119	117	118	119	117	118	116	115	115	112	111	111
9	118	117	118	119	116	118	117	115	116	113	112	113
10	118	117	118	120	117	118	117	116	117	114	112	113
11	119	118	118	119	116	118	118	116	117	114	113	114
12	119	116	118	120	118	119	118	116	117	115	114	114
13	118	116	117	120	118	119	117	105	114	116	114	115
14	118	115	116	120	118	119	116	111	114	---	---	---
15	116	114	114	120	119	119	116	113	114	116	114	115
16	114	109	111	120	106	116	116	114	115	116	114	115
17	112	110	111	110	102	106	118	116	116	116	114	115
18	113	110	112	104	101	102	120	118	118	115	112	113
19	116	113	114	107	103	105	121	119	120	114	112	113
20	118	116	117	109	106	107	121	120	121	114	112	113
21	120	118	118	110	108	109	122	120	121	114	111	112
22	120	119	120	111	109	110	122	120	121	112	101	109
23	120	119	120	111	110	110	122	120	121	121	99	112
24	121	120	121	112	111	111	122	121	121	123	120	122
25	120	119	119	114	112	113	122	121	121	121	118	119
26	120	117	119	115	113	114	122	119	121	119	115	117
27	117	112	113	116	114	115	119	116	118	115	113	114
28	114	112	113	117	116	116	119	117	119	113	110	111
29	117	113	115	117	115	116	119	116	117	111	108	110
30	---	---	---	118	116	117	118	116	117	109	107	108
31	---	---	---	118	115	117	---	---	---	107	106	107
MONTH	121	109	117	121	101	115	122	105	117	---	---	---



## PAMLICO RIVER BASIN

02084557 VAN SWAMP NEAR HOKE, NC—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.6	17.8	18.2	15.9	14.9	15.5	12.0	10.7	11.4	10.4	9.7	10.1
2	18.4	17.9	18.1	16.2	15.2	15.8	11.7	10.1	10.9	10.9	10.0	10.4
3	17.9	17.0	17.4	16.9	15.7	16.3	10.1	8.9	9.4	11.5	10.5	11.0
4	18.0	17.1	17.5	17.9	16.9	17.4	10.0	9.2	9.5	12.8	11.4	12.2
5	18.3	17.6	17.9	18.5	17.8	18.1	10.8	10.0	10.5	13.8	12.7	13.3
6	18.2	17.4	17.8	18.9	18.3	18.6	10.3	9.3	10	13.7	11.8	13.0
7	18.3	17.7	18.0	18.8	18.4	18.7	9.3	8.3	8.7	11.8	9.6	10.5
8	18.6	18.1	18.3	18.4	16.3	17.4	8.4	7.4	8.0	9.6	8.7	9.0
9	19.2	18.6	18.9	16.3	14.7	15.4	8.7	7.3	8.0	9.1	8.7	8.9
10	19.3	19.0	19.2	14.9	14.3	14.7	11.4	8.5	9.4	8.7	7.6	8.3
11	19.2	18.8	19.0	15.5	14.3	14.9	12.5	11.4	12.0	7.6	6.6	7.1
12	19.2	18.6	18.9	16.6	15.3	15.9	11.6	10.4	10.7	8.2	6.8	7.5
13	19.1	18.3	18.7	16.6	14.9	16.2	10.4	9.7	9.9	9.0	7.7	8.3
14	18.7	18.1	18.3	14.9	12.8	13.6	10.9	10.0	10.5	8.7	8.0	8.4
15	18.4	17.2	17.9	13.3	12.2	12.8	10.8	10.0	10.4	9.0	8.2	8.6
16	17.2	15.6	16.3	14.8	13.3	14.0	10.1	9.4	9.8	8.4	7.4	7.8
17	16.4	14.9	15.7	16.1	14.6	15.4	11.2	10.1	10.8	7.8	6.5	7.1
18	16.8	16.0	16.5	16.6	15.4	16.1	10.8	10.1	10.3	9.9	7.8	8.8
19	16.0	14.5	15.3	17.4	16.4	16.8	10.1	9.5	9.8	9.9	8.3	9.2
20	16.1	14.4	15.3	16.8	14.5	15.6	9.5	9.0	9.2	8.3	6.7	7.3
21	17.0	15.2	16.1	14.5	13.1	13.8	9.0	8.5	8.8	6.7	5.7	6.3
22	17.1	16.3	16.9	14.3	13.2	13.8	9.4	8.5	8.9	7.4	5.6	6.5
23	16.3	14.4	15.0	14.4	13.6	14.0	10.6	9.1	9.7	7.3	6.4	6.8
24	14.4	13.0	13.6	14.8	13.3	14.0	12.0	10.6	11.6	8.2	6.5	7.2
25	14.9	13.2	13.9	14.8	13.3	14.2	11.9	10.5	11.3	7.6	5.0	6.2
26	16.5	14.9	15.8	13.5	12.7	13.1	10.5	9.6	9.9	5.4	5.0	5.3
27	17.6	16.3	16.9	13.6	12.4	13.0	9.7	9.0	9.4	5.8	5.3	5.5
28	17.5	16.9	17.1	15.8	13.6	14.7	9.6	8.9	9.3	5.9	5.3	5.6
29	16.9	15.9	16.5	15.2	12.0	13.4	10.2	9.1	9.6	6.6	5.1	5.8
30	16.2	15.2	15.7	12.0	10.6	11.3	11.2	10.2	10.8	7.3	5.9	6.5
31	15.8	14.8	15.3	---	---	---	10.7	10.0	10.3	6.9	5.9	6.3
MONTH	19.3	13.0	17.0	18.9	10.6	15.2	12.5	7.3	10.0	13.8	5.0	8.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.2	5.1	5.7	10.5	8.5	9.5	12.5	11.6	12.1	16.1	15.1	15.6
2	6.8	5.0	5.9	12.4	10.5	11.5	12.5	11.4	12.0	17.4	16.1	16.7
3	8.4	6.6	7.4	13.4	12.1	12.7	12.7	11.4	12.0	17.4	16.2	17.1
4	8.4	7.2	7.8	13.8	12.2	13.0	13.6	11.1	12.2	16.2	14.4	15.1
5	8.1	6.8	7.6	14.7	13.3	14.0	12.8	10.5	11.7	15.5	13.9	14.6
6	11.0	7.7	9.0	15.0	14.2	14.6	12.7	9.5	11.1	16.6	15.0	15.7
7	12.1	11.0	11.6	14.5	13.4	13.9	14.4	11.0	12.6	17.3	15.8	16.5
8	11.1	8.5	9.6	13.4	11.6	12.4	15.9	13.1	14.4	17.5	16.9	17.2
9	8.5	7.1	7.8	11.6	10.0	10.8	16.3	14.0	15.2	17.6	16.7	17.1
10	9.6	8.3	9.0	10.9	9.2	10	15.1	13.3	14.3	18.3	17.1	17.6
11	10.1	9.1	9.6	10.6	8.4	9.5	15.9	14.4	15.0	18.6	17.2	17.8
12	9.6	8.2	8.9	11.8	9.6	10.7	15.2	13.7	14.1	18.6	17.3	17.9
13	9.2	7.6	8.4	11.3	9.6	10.5	16.4	14.0	15.0	18.6	17.4	18.0
14	8.9	8.1	8.6	10.9	9.1	10.1	16.2	13.8	14.9	---	---	---
15	9.2	8.3	8.9	11.6	10.5	11.0	14.2	12.6	13.5	19.2	17.8	18.4
16	8.3	6.6	7.1	12.8	11.6	12.0	14.0	12.2	13.2	19.1	18.0	18.5
17	7.0	6.6	6.8	12.4	10.2	11.2	15.0	12.8	13.9	19.0	17.8	18.4
18	8.0	6.7	7.3	10.9	9.1	10.0	16.3	14.6	15.4	19.3	17.7	18.4
19	8.6	6.8	7.8	12.4	10.5	11.4	16.9	15.5	16.1	20.1	18.2	19.0
20	9.7	7.9	8.8	12.1	10.2	11.3	17.2	15.7	16.4	20.7	18.8	19.6
21	11.3	9.7	10.5	13.1	11.8	12.4	17.3	15.9	16.6	21.3	19.3	20.2
22	10.7	9.6	10.2	12.3	10.3	11.3	17.4	16.1	16.7	22.3	20.2	20.9
23	10.1	8.9	9.6	10.6	8.8	9.8	17.9	16.1	17.0	21.6	20.4	21.0
24	9.9	9.7	9.8	11.1	8.8	10.0	17.4	16.3	17.0	21.4	20.4	21.0
25	10.1	9.2	9.6	12.7	10.0	11.4	16.3	15.0	15.5	21.7	20.8	21.2
26	9.3	7.4	8.2	13.8	11.5	12.7	17.3	15.5	16.3	22.4	21.1	21.7
27	7.4	6.8	7.1	14.8	12.4	13.6	16.7	16.0	16.4	22.2	20.9	21.5
28	8.4	6.5	7.4	14.8	13.3	14.1	16.0	14.1	14.8	22.7	20.9	21.6
29	9.3	7.2	8.3	13.3	12.0	12.5	15.2	13.1	14.2	21.8	20.4	21.0
30	---	---	---	12.4	11.4	11.9	15.9	14.2	15.0	20.4	19.0	19.4
31	---	---	---	12.7	11.8	12.2	---	---	---	21.0	19.1	20.0
MONTH	12.1	5.0	8.4	15.0	8.4	11.7	17.9	9.5	14.5	---	---	---

