

02097464 MORGAN CREEK NEAR WHITE CROSS, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1989 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: August 2002 to November 2003.

INSTRUMENTATION.--Logging pressure transducer with water temperature probe.

REMARKS.--Station operated as part of a six county regional surface-water quality assessment and the NAWQA Urban Land Use Gradient study.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 27.6°C, Aug. 30, 2003; minimum recorded, 0.0°C, Jan. 19, 23-26, 28, 2003.

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

Date	Time	Instantaneous discharge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	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)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 27...	1300	4.1	38	746	8.3	85	7.2	117	15.7	42	10.3	3.97	3.27
DEC 09...	1130	2.5	25	756	13.3	99	7.3	106	3.0	42	10.5	3.80	1.70
FEB 24...	1115	19	35	751	12.4	106	7.4	98	7.8	34	8.61	3.04	1.59
APR 01...	1030	18	125	742	11.4	108	7.4	92	11.8	32	8.09	2.88	1.56
JUN 25...	1115	.36	50	753	4.2	50	7.0	142	22.4	51	13.7	4.14	3.33
AUG 23...	1130	1.2	62	756	7.0	78	6.9	121	20.6	42	11.1	3.42	4.23
AUG 30...	1400	175	75	745	7.6	90	6.3	65	22.3	21	5.36	1.76	3.69

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, titr., mg/L as CaCO3 (00419)	Bicarbonate, wat unfltrd, titr., mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)
OCT 27...	5.93	40	49	6.84	<.2	14.5	3.0	78	.23	<.010	.152	.002	.012
DEC 09...	5.92	36	44	7.57	<.2	12.9	4.4	71	.17	<.010	.414	.003	E.004
FEB 24...	6.40	52	63	7.82	<.2	10.2	5.1	71	.27	E.005	.488	.006	.010
APR 01...	5.69	30	36	6.66	<.2	9.06	3.9	66	.81	.020	.294	.007	.008
JUN 25...	6.64	52	63	7.23	<.2	19.2	2.7	107	.40	.085	.500	.004	.032
AUG 23...	5.77	39	48	7.48	<.2	15.3	5.9	93	.49	.023	.894	.009	.036
AUG 30...	3.19	15	18	4.14	<.2	7.23	4.5	61	2.0	.066	.459	.011	.075

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

Date	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)	Lead, water, unfltrd recover-able, ug/L (01051)	Manganese, water, unfltrd recover-able, ug/L (01055)	Mercury water, unfltrd recover-able, ug/L (71900)	Molybdenum, water, unfltrd recover-able, ug/L (01062)
OCT 27...	.057	4.2	58	<2	<.04	<.8	.225	E.6	410	.11	56	<.02	E.1
DEC 09...	.030	2.2	--	--	--	--	--	--	--	--	--	--	--
FEB 24...	.039	3.1	--	--	--	--	--	--	--	--	--	--	--
APR 01...	.107	8.7	311	<2	<.04	E.4	.765	1.4	1,600	.66	190	<.02	E.1
JUN 25...	.115	5.0	--	--	--	--	--	--	--	--	--	--	--
AUG 23...	.136	7.9	--	--	--	--	--	--	--	--	--	--	--
30...	.48	25.5	2,130	E1	.05	2.8	4.12	6.2	4,910	3.86	718	.02	<.2

Date	Nickel, water, unfltrd recover-able, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)	Suspended sediment concentration mg/L (80154)
OCT 27...	.45	<.4	<.16	2	4
DEC 09...	--	--	--	--	8
FEB 24...	--	--	--	--	5
APR 01...	.57	<.4	<.16	E2	37
JUN 25...	--	--	--	--	7
AUG 23...	--	--	--	--	7
30...	2.39	E.4	<.16	16	287

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