

0208758440 DUTCHMANS BRANCH AT SECONDARY ROAD 1386 NEAR MCCULLERS CROSSROADS, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 2002 to November 2003 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July 2002 to November 2003.

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

REMARKS.--Station operated as part of NAWQA Urban Land Use Gradient study.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 27.7°C, Aug. 15, 2002; minimum recorded, 0.3°C, Jan. 23, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

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)	Specif. 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 + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
FEB 20...	1345	9	11	757	12.0	98	6.7	90	6.5	13.6	5.7	0.35	<0.04
21...	0840	9	--	--	--	--	--	--	--	--	--	--	--
MAY 13...	1445	D	E.50	--	7.5	--	7.1	81	19.3	--	--	--	--
JUN 10...	1200	9	--	--	8.8	--	7.3	101	21.4	--	--	--	--
JUL 01...	1500	9	2.7	757	7.5	86	6.5	67	21.7	4.82	3.5	0.46	<0.04
09...	0925	9	--	--	--	--	--	--	--	--	--	--	--

Date	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	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)
FEB 20...	--	--	0.08	--	<0.008	<0.02	0.05	0.028	0.43	0.4	<0.1	0.4	6.7
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 01...	0.252	0.06	0.07	0.026	0.008	<0.02	0.13	0.066	0.52	1.2	<0.1	1.1	7.5
09...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Biomass periphyton, ashfree drymass g/m2 (49954)	Periphyton biomass ash weight, g/m2 (00572)	Periphyton biomass dry weight, g/m2 (00573)	Biomass chlorophyll ratio, periphyton, number (70950)	Pheophytin a, periphyton, mg/m2 (62359)	E coli, modif. m-TEC, water, col/100 mL (90902)	Chlorophyll a periphyton, chromofluoro, mg/m2 (70957)	1-Naphthol, water, fltrd ug/L (49295)	2,6-Diethyl-aniline water fltrd ug/L (82660)	2-[(2-Et-6-Me-Ph)-amino]propan-1-ol, ug/L (61615)	2Chloro-2,6-' diethyl acetanilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methyl-aniline water, fltrd, ug/L (61620)
FEB 20...	--	--	--	--	--	--	--	<0.09	<0.006	<0.1	<0.005	<0.006	<0.004
21...	--	--	--	--	--	75	--	--	--	--	--	--	--
MAY 13...	3.200	22	25.50	419	3.3	--	7.6	--	--	--	--	--	--
JUN 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 01...	--	--	--	--	--	--	--	E.01	<0.006	<0.1	<0.005	<0.006	<0.004
09...	--	--	--	--	--	240	--	--	--	--	--	--	--

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Di- chlor- vos, water fltrd, ug/L (38775)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment load, tons/d (80155)
FEB										
20...	0.006	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	88	8	0.23
21...	--	--	--	--	--	--	--	--	--	--
MAY										
13...	--	--	--	--	--	--	--	--	--	--
JUN										
10...	--	--	--	--	--	--	--	--	--	--
JUL										
01...	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	99	33	0.24
09...	--	--	--	--	--	--	--	--	--	--

Remark codes used in this table:

- < -- Less than
- E -- Estimated value

Medium codes used in this table:

- 9 - Surface water
- D - Plant tissue

TEMPERATURE, WATER, DEGREES CELSIUS
JULY TO SEPTEMBER 2002

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	26.4	24.7	25.5	21.9	21.4	21.6
2	---	---	---	---	---	---	26.0	24.1	25.0	21.6	20.9	21.3
3	---	---	---	---	---	---	25.6	23.3	24.4	22.5	19.9	21.2
4	---	---	---	---	---	---	25.6	23.2	24.4	23.8	21.1	22.3
5	---	---	---	---	---	---	26.0	23.2	24.5	23.6	21.9	22.9
6	---	---	---	---	---	---	25.8	23.5	24.3	22.2	20.1	21.3
7	---	---	---	---	---	---	24.4	21.5	22.6	21.8	20.2	21.1
8	---	---	---	---	---	---	23.6	19.8	21.2	21.4	20.0	20.7
9	---	---	---	---	---	---	23.6	19.2	20.9	21.9	20.7	21.3
10	---	---	---	---	---	---	24.0	19.0	21.0	22.8	21.2	21.8
11	---	---	---	---	---	---	25.3	19.4	21.7	22.8	21.1	22.0
12	---	---	---	---	---	---	26.3	20.3	22.7	22.1	20.3	21.0
13	---	---	---	---	---	---	27.2	21.5	23.8	20.7	19.1	20.0
14	---	---	---	---	---	---	26.3	21.8	23.5	21.0	20.0	20.5
15	---	---	---	---	---	---	27.7	23.3	24.4	21.9	20.9	21.3
16	---	---	---	---	---	---	26.0	23.2	24.2	22.5	21.3	21.9
17	---	---	---	---	---	---	25.4	23.2	24.3	23.1	21.6	22.3
18	---	---	---	---	---	---	25.9	23.7	24.5	22.9	21.5	22.2
19	---	---	---	---	---	---	25.1	23.4	24.3	22.9	21.5	22.2
20	---	---	---	---	---	---	25.3	23.5	24.4	22.6	20.8	21.8
21	---	---	---	---	---	---	25.4	24.0	24.8	22.3	20.9	21.7
22	---	---	---	---	---	---	25.9	24.1	24.8	22.4	21.0	21.7
23	---	---	---	---	---	---	26.5	24.4	25.3	21.5	20.7	21.1
24	---	---	---	---	---	---	26.8	24.7	25.3	21.2	20.3	20.7
25	---	---	---	---	---	---	26.0	23.9	24.9	21.1	20.1	20.6
26	---	---	---	---	---	---	24.9	23.7	24.2	21.4	20.4	20.8
27	---	---	---	---	---	---	23.7	22.8	23.1	23.2	21.1	22.1
28	---	---	---	---	---	---	22.8	21.8	22.3	23.0	21.8	22.4
29	---	---	---	---	---	---	21.8	21.4	21.5	21.9	20.6	21.3
30	---	---	---	---	---	---	21.6	20.9	21.3	20.9	19.6	20.4
31	---	---	---	26.9	25.1	26.0	21.9	21.3	21.6	---	---	---
MONTH	---	---	---	---	---	---	27.7	19.0	23.6	23.8	19.1	21.4

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	21.7	20.1	20.8	11.9	10.4	11.2	7.9	5.1	6.5	12.3	9.3	11.3
2	22.2	20.3	21.2	11.2	10.0	10.5	6.3	4.0	5.3	11.1	9.9	10.4
3	22.5	20.9	21.7	11.0	9.8	10.3	7.5	5.3	6.3	10.7	9.2	10.2
4	23.8	21.1	22.2	12.0	10.5	11.2	5.3	3.1	4.2	9.2	6.2	7.6
5	23.9	22.2	22.9	12.1	11.3	11.6	5.5	3.7	4.6	7.0	4.9	6.0
6	22.9	21.0	21.8	13.8	12.1	13.2	6.2	5.2	5.6	7.4	5.9	6.6
7	22.8	20.8	21.6	12.4	10.6	11.3	5.6	3.9	4.8	6.2	4.2	4.8
8	21.6	19.1	20.1	11.0	9.2	10.3	6.3	4.1	5.2	6.8	4.5	5.6
9	20.0	18.5	19.1	12.4	10.2	11.4	6.3	5.7	6.0	8.8	6.4	7.5
10	19.6	18.4	19.0	15.0	12.4	13.7	6.2	5.3	5.7	9.0	7.1	8.4
11	21.8	19.5	20.6	16.6	15.0	16.1	7.0	5.9	6.5	7.1	4.7	5.7
12	21.3	20.8	21.1	17.0	15.2	16.4	8.4	6.8	7.6	4.7	3.2	3.8
13	20.9	20.0	20.4	15.2	12.6	14.2	7.9	7.3	7.5	4.6	2.6	3.7
14	20.5	16.9	18.6	12.7	11.1	12.0	8.9	7.7	8.2	5.1	3.3	4.3
15	16.9	15.8	16.1	12.8	10.8	11.8	7.7	6.3	7.1	4.8	2.9	3.9
16	17.3	16.3	16.9	14.1	12.7	13.4	8.3	6.1	7.2	3.7	2.2	3.0
17	16.6	15.1	15.8	14.0	12.4	13.5	7.6	6.0	6.7	3.9	2.7	3.2
18	15.2	13.4	14.2	12.4	10.0	11.1	7.2	5.9	6.5	2.7	0.9	1.6
19	14.9	12.4	13.6	10.7	8.5	9.7	9.1	7.2	7.8	1.9	0.4	1.1
20	16.1	13.7	14.9	11.3	9.1	10.3	12.4	9.1	11.0	4.0	1.4	2.7
21	17.9	15.8	16.9	11.8	10.2	11.0	9.9	7.6	8.5	3.9	3.2	3.5
22	15.8	14.9	15.4	11.6	9.9	11.0	8.8	6.5	7.7	3.4	1.9	2.7
23	15.6	14.1	15.0	9.9	8.2	8.9	8.3	6.7	7.6	2.9	0.3	1.5
24	15.3	14.7	15.0	9.5	7.4	8.5	8.3	7.2	7.7	0.8	0.4	0.5
25	15.2	14.9	15.1	10.1	8.0	9.1	8.4	6.6	7.9	1.1	0.4	0.6
26	15.8	14.7	15.3	9.9	8.1	9.1	6.6	5.4	6.0	2.2	0.6	1.4
27	16.1	15.2	15.6	9.5	8.0	8.9	5.6	4.1	4.9	2.1	0.4	1.4
28	16.4	15.7	16.0	8.0	5.5	6.7	5.3	3.5	4.5	1.7	0.4	0.9
29	16.2	14.1	14.9	6.3	4.4	5.4	6.3	4.0	5.1	4.7	1.6	3.2
30	14.1	13.0	13.5	8.8	6.1	7.5	7.2	4.6	6.0	4.9	4.3	4.6
31	13.0	11.9	12.5	---	---	---	9.3	6.4	7.6	5.0	4.3	4.7
MONTH	23.9	11.9	17.7	17.0	4.4	11.0	12.4	3.1	6.6	12.3	0.3	4.4
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	4.9	5.6	7.7	6.4	7.0	13.4	8.0	10.7	18.9	17.4	18.3
2	6.4	4.4	5.4	10.5	7.4	8.7	16.3	11.2	13.8	19.1	17.0	18.2
3	8.3	4.8	6.5	9.8	6.9	8.4	17.5	12.8	15.3	18.6	17.1	17.9
4	10.5	8.2	9.2	10.0	6.1	8.1	17.5	14.1	16.0	17.1	15.2	16.1
5	8.2	5.8	6.8	12.2	9.3	10.6	17.0	15.0	16.1	15.2	13.7	14.1
6	6.3	4.9	5.4	12.5	11.0	11.7	16.3	13.7	15.2	16.7	14.1	15.4
7	7.0	5.2	6.0	11.4	7.1	8.9	15.0	11.2	12.2	18.4	16.3	17.3
8	6.2	4.4	5.3	10.7	5.6	8.1	11.2	10.3	10.6	20.2	18.0	19.1
9	6.2	3.9	4.9	13.0	8.5	10.6	10.5	9.9	10.2	21.2	19.1	20.2
10	6.3	4.9	5.5	11.3	8.8	10.1	10.0	9.2	9.6	22.0	20.0	21.0
11	6.9	4.1	5.5	9.4	7.1	8.3	10.3	9.5	9.9	21.8	20.4	20.9
12	7.3	4.7	5.9	11.8	6.6	9.2	14.7	9.3	11.7	20.5	18.4	19.5
13	6.0	3.5	5.0	13.5	9.6	11.6	15.5	11.0	13.2	19.0	16.5	17.8
14	6.4	4.2	5.3	13.1	10.5	12.0	16.2	11.7	13.9	18.2	14.6	16.6
15	8.0	6.4	7.1	10.5	8.8	9.5	17.2	12.9	15.1	17.6	16.0	16.8
16	6.9	1.3	4.5	12.4	9.9	11.0	17.7	14.2	16.1	18.1	16.2	17.1
17	2.9	0.6	1.9	13.8	11.5	12.5	17.7	14.6	16.3	17.7	16.2	17.1
18	5.6	2.9	4.0	14.4	12.4	13.3	16.1	12.8	13.6	16.2	14.8	15.4
19	6.9	3.7	5.1	13.4	11.2	12.1	13.1	12.2	12.7	15.3	14.4	14.8
20	8.1	5.8	6.7	11.3	10.0	10.8	14.3	12.1	13.2	16.8	14.1	15.5
21	7.5	5.9	6.8	13.5	10.8	11.9	14.9	12.8	13.9	17.3	16.0	16.8
22	10.9	7.4	9.0	15.4	10.8	13.0	16.5	14.5	15.4	17.3	16.8	17.0
23	10.9	8.3	10.2	14.7	10.9	12.9	15.5	12.8	14.2	17.1	16.5	16.8
24	10.5	6.2	8.4	15.4	11.2	13.4	14.2	11.4	13.2	17.8	16.4	17.0
25	9.9	8.1	9.0	15.8	10.8	13.4	14.2	13.3	13.7	18.2	16.7	17.3
26	8.3	5.6	6.7	16.7	12.3	14.6	15.8	14.1	14.8	18.8	17.5	18.1
27	5.6	5.0	5.3	15.9	13.2	14.6	16.7	14.3	15.4	18.4	17.1	17.6
28	7.1	5.1	6.0	16.5	12.5	14.7	17.0	13.7	15.5	17.8	15.6	16.8
29	---	---	---	18.4	15.5	16.7	18.1	15.2	16.7	17.5	16.3	16.9
30	---	---	---	17.1	10.5	13.5	18.7	16.5	17.8	17.9	15.6	16.9
31	---	---	---	12.0	8.6	10.2	---	---	---	17.7	16.7	17.1
MONTH	10.9	0.6	6.2	18.4	5.6	11.3	18.7	8.0	13.9	22.0	13.7	17.3

