

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1997, 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1996 to September 1997.

WATER TEMPERATURE: November 1996 to September 1997.

SUSPENDED-SEDIMENT DISCHARGE: October 2000 to current year.

INSTRUMENTATION.--Water-quality monitor from November 1996 to September 1997. Optical backscatterance sensor from April 2000 to current year.

REMARKS.--Station operated in cooperation with Mecklenburg County to characterize water quality and suspended sediment in McDowell Creek basin.

Miscellaneous water-quality data collected from November 1996 to September 1997 published in U.S. Geological Survey Open File Report 98-67.

Continuous record of suspended-sediment concentration was computed by using a relation between optical backscatterance readings and measured suspended-sediment concentrations. Sediment discharge was computed as the product of continuous suspended-sediment concentration and continuous discharge.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 602 microsiemens, June 19, 1997; minimum recorded, 39 microsiemens, July 23, 1997.

WATER TEMPERATURE: Maximum recorded 33.2°C, July 21, 1997; minimum recorded, 0.1°C, Dec. 21, 1996.

SEDIMENT DISCHARGE: Maximum recorded, 3000 tons, May 22, 2003; minimum recorded, .01 tons, Sept. 8, 9, 12, Oct. 2, 8, 2002.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT LOAD: Maximum recorded, 3000 tons, May 22, minimum recorded, .01 tons, Oct. 2, 8.

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

Date	Time	Instantaneous discharge, cfs (00061)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)	Date	Time	Instantaneous discharge, cfs (00061)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
OCT					SEP				
16...	0708	438	820	970	23...	0900	529	340	486
16...	0752	439	567	672	24...	1345	29	60	4.7
NOV					24...	1430	25	87	5.9
12...	1204	569	488	750	24...	1515	27	81	5.9
AUG									
12...	1430	14	32	1.2					
13...	0915	19	69	3.5					
13...	1000	18	65	3.1					

SANTEE RIVER BASIN

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC—Continued

 SEDIMENT LOAD, TONS
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	---	---	6.4	2.6	5.5	---	2.0	36	0.38	6.1	2.2
2	0.01	---	---	1.6	1.5	18	1.7	4.0	2.8	155	1.2	2.3
3	0.13	---	0.14	12	0.88	2.4	1.1	81	393	6.8	13	0.41
4	---	---	0.25	1.8	1.3	1.1	1.9	155	143	1.9	77	28
5	---	17	---	0.90	---	1.5	2.8	33	10	0.84	18	2.1
6	---	66	---	1.1	---	371	1.4	210	4.4	2.9	1.5	0.48
7	---	---	9.7	0.50	---	---	265	21	380	8.9	2.0	0.29
8	0.01	0.69	---	0.52	2.1	---	33	5.9	213	2.6	1.4	2.2
9	---	0.28	---	0.50	0.80	---	---	1.8	25	0.76	0.74	0.53
10	---	0.22	---	---	0.76	3.9	1,490	1.2	4.9	0.58	---	0.30
11	359	5.2	---	---	0.63	1.9	141	0.93	3.7	16	---	0.25
12	---	---	---	---	0.51	2.0	16	0.76	6.5	8.2	---	0.22
13	---	---	214	---	0.56	1.4	8.8	---	4.1	248	9.0	0.21
14	4.1	---	28	---	1.1	---	5.4	---	1.6	---	0.93	0.23
15	---	---	2.6	0.32	2.7	---	2.0	---	1.0	---	0.72	0.27
16	195	---	1.5	0.30	1.2	---	2.1	12	41	1.9	0.67	---
17	---	---	1.0	0.21	1.3	---	4.5	0.68	3.3	2.7	0.66	---
18	---	---	0.73	0.11	31	---	353	11	19	32	0.49	0.11
19	---	---	0.52	0.13	6.3	---	134	5.6	9.9	50	0.46	0.12
20	---	---	13	---	1.3	---	15	0.89	2.3	1.7	0.36	0.18
21	---	1.1	1.5	0.27	0.78	---	---	5.9	0.93	1.1	0.38	0.21
22	3.6	0.38	0.71	0.28	---	9.3	---	3,000	0.64	18	1.0	20
23	---	0.26	0.47	0.40	---	4.0	---	166	0.48	9.0	0.57	---
24	---	0.25	---	---	---	2.4	---	10	0.44	1.9	4.4	---
25	0.57	0.31	---	---	---	2.2	---	400	0.38	1.1	0.55	1.4
26	---	0.36	---	---	---	1.1	254	22	0.36	6.7	0.39	---
27	---	0.99	---	---	119	1.2	7.5	77	1.7	2.9	0.42	---
28	---	0.68	---	0.19	18	1.1	2.1	3.5	0.56	0.76	0.37	---
29	10	0.51	---	2.7	---	1.9	123	2.2	0.40	0.73	0.59	0.74
30	2.0	---	---	125	---	176	16	1.2	0.38	1.3	0.32	---
31	---	---	0.87	11	---	---	---	233	---	1.2	6.2	---
TOTAL	---	---	---	---	---	---	---	---	1,310.77	---	---	---