0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1997, 2000 to September 2004 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1996 to September 1997.
WATER TEMPERATURE: November 1996 to September 1997.
SUSPENDED-SEDIMENT DISCHARGE: October 2000 to September 2004.

INSTRUMENTATION.--Water-quality monitor from November 1996 to September 1997. Optical backscatterance sensor from April 2000 to September 2004.

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. The annual total sediment load for the 2004 water year is 1,234 tons based on 78 partial days and 202 complete days. The load for the partial days is not published.

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 daily recorded, 3000 tons, May 22, 2003; minimum daily recorded, .01 tons, Sept. 8, 9, 12, Oct. 2, 8, 2002.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT LOAD: Maximum daily recorded, 201 tons, Feb. 6, minimum daily recorded, .03 tons, May 29, July 25.

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

Date	Time	Instantaneous discharge, cfs (00061)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Date	Time	Instantaneous discharge, cfs (00061)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
NOV					NOV				
17...	1215	8.3	2	.04	19...	1330	57	232	36
19...	1300	47	191	24	19...	1500	67	211	38

SEDIMENT LOAD, TONS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	0.12	0.13	---	---	---	0.09	---	0.19	0.87
2	---	---	---	0.12	0.22	1.6	---	6.0	---	---	3.8	0.24
3	---	---	0.21	---	60	---	0.49	2.8	0.13	0.10	---	0.10
4	---	---	---	0.23	2.0	0.65	0.29	0.42	0.37	8.9	---	0.10
5	---	---	---	29	0.87	0.61	0.38	0.14	0.11	10	0.20	0.10
6	---	---	0.18	---	201	---	0.33	0.15	0.10	2.9	0.22	0.43
7	---	---	0.11	0.47	---	---	0.35	---	0.10	0.21	0.19	18
8	---	---	0.14	0.34	---	---	---	---	0.12	0.11	---	---
9	---	---	0.18	0.44	---	0.20	---	0.85	0.10	0.12	---	---
10	---	---	39	0.32	1.1	0.24	0.10	1.9	0.17	0.15	---	---
11	---	---	9.5	0.30	1.0	0.23	0.54	0.16	0.17	4.4	---	---
12	---	---	0.69	0.40	39	0.23	12	0.10	0.16	27	14	---
13	---	0.21	1.6	---	3.4	0.35	112	0.10	0.33	---	5.2	---
14	---	---	108	---	0.88	---	---	0.11	27	---	---	---
15	---	---	---	0.34	3.1	---	---	0.10	6.4	---	---	---
16	---	---	1.2	0.35	3.9	---	0.89	0.13	0.75	0.10	---	---
17	---	---	---	0.18	0.63	---	0.55	0.10	0.22	4.5	---	---
18	---	---	---	1.2	0.54	0.18	0.35	0.10	0.71	17	---	---
19	---	6.8	---	0.32	0.45	0.34	---	0.10	0.64	0.79	---	---
20	---	---	0.44	0.25	0.52	---	---	---	0.87	0.17	0.10	---
21	---	---	0.29	0.27	0.51	---	---	---	8.0	0.13	0.12	0.12
22	---	---	0.28	0.31	0.36	---	---	---	0.58	0.14	0.12	0.10
23	---	---	0.29	0.50	---	0.12	---	---	0.42	0.17	0.10	---
24	---	---	0.34	0.38	0.27	0.15	---	---	0.50	0.08	0.10	---
25	---	---	0.26	0.48	---	0.30	---	---	---	0.03	0.14	---
26	---	0.36	0.27	0.52	0.55	0.37	---	---	---	0.09	0.13	---
27	---	0.21	---	---	---	0.21	0.30	0.05	---	34	0.13	---
28	---	---	0.31	---	---	0.56	0.11	0.05	0.74	0.89	0.09	---
29	---	---	0.26	---	---	0.81	0.23	0.03	0.47	42	0.09	---
30	---	---	---	---	---	0.34	---	0.04	---	3.6	0.13	---
31	---	---	---	0.23	---	47	---	1.6	---	0.50	12	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---