

## 02146750 MCALPINE CREEK BELOW MCMULLEN CREEK NEAR PINEVILLE, NC

LOCATION.--Lat 35°04'00", long 80°52'12", Mecklenburg County, Hydrologic Unit, 03050103, on right bank at McAlpine Creek Wastewater Treatment Plant of Charlotte, 150 ft downstream of McMullen Creek, 735 ft upstream from effluent outfall, and 2.1 mi south of Pineville.

DRAINAGE AREA.--92.4 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 515.51 above North American Vertical Datum of 1988. Prior to Oct. 1, 1977, present site at 516.51 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Records for periods of heavy overbank flow may be affected by variable backwater not adequately defined. Maximum stage for period of record from high-water mark in gage house. Maximum discharge for period of record from rating curve extended above 11,600 ft<sup>3</sup>/s. Minimum discharge for current water year also occurred Oct. 8.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1964, about 12.9 ft. (former datum), Apr. 1, 1973, from information by wastewater treatment plant operator.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	18	14	49	102	133	80	36	218	124	93	43
2	5.7	13	13	54	60	424	59	51	65	1,150	48	24
3	4.8	12	14	47	47	116	51	69	235	338	145	21
4	3.8	11	17	40	65	67	45	61	414	70	135	22
5	3.4	60	803	32	55	89	64	39	107	46	229	34
6	2.9	711	379	28	41	1,430	63	2,050	63	36	432	21
7	2.7	71	80	27	560	546	1,650	1,070	2,120	32	70	17
8	7.3	31	42	26	109	107	658	139	3,030	30	50	17
9	4.5	22	31	26	54	75	1,540	77	950	30	65	15
10	6.0	18	26	26	122	60	3,500	58	149	63	46	14
11	990	199	445	24	72	50	1,900	50	93	81	176	14
12	240	837	116	22	44	45	280	48	175	181	39	13
13	495	487	918	23	36	53	116	36	197	832	47	12
14	352	66	878	22	37	54	81	32	68	177	244	12
15	136	37	115	22	59	76	66	154	59	65	937	15
16	960	340	70	22	69	1,260	54	918	149	48	220	20
17	115	990	49	32	134	298	51	90	1,060	100	95	18
18	36	162	37	27	179	173	728	62	1,700	50	45	15
19	23	68	32	22	158	109	1,080	109	2,030	97	36	14
20	18	45	410	21	75	3,900	168	55	466	732	31	16
21	16	31	109	26	56	1,160	105	136	118	100	28	14
22	56	27	50	37	698	156	98	2,410	77	218	28	26
23	25	22	36	36	872	92	66	1,720	63	138	28	258
24	16	20	760	49	99	71	54	247	56	66	25	39
25	13	19	1,450	32	63	60	88	1,270	48	46	22	23
26	13	18	305	32	57	53	185	758	45	32	21	19
27	13	16	98	32	613	52	190	948	42	67	21	18
28	43	15	73	26	687	43	54	220	52	31	20	37
29	148	14	53	28	---	44	43	118	55	194	28	24
30	47	15	44	618	---	641	40	103	70	1,010	39	14
31	26	---	41	668	---	387	---	136	---	151	103	---
TOTAL	3,827.4	4,395	7,508	2,176	5,223	11,824	13,157	13,270	13,974	6,335	3,546	849
MEAN	123	146	242	70.2	187	381	439	428	466	204	114	28.3
MAX	990	990	1,450	668	872	3,900	3,500	2,410	3,030	1,150	937	258
MIN	2.7	11	13	21	36	43	40	32	42	30	20	12
CFSM	1.34	1.59	2.62	0.76	2.02	4.13	4.75	4.63	5.04	2.21	1.24	0.31
IN.	1.54	1.77	3.02	0.88	2.10	4.76	5.30	5.34	5.63	2.55	1.43	0.34

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2003, BY WATER YEAR (WY)

MEAN	99.2	103	126	222	211	248	134	101	85.4	92.0	103	83.4
MAX	540	414	497	550	506	544	439	428	466	400	597	510
(WY)	(1991)	(1986)	(1984)	(1978)	(1984)	(1980)	(2003)	(2003)	(2003)	(1997)	(1994)	(1987)
MIN	6.82	8.44	24.0	18.6	39.0	35.8	21.9	18.2	7.43	7.07	7.95	5.03
(WY)	(1979)	(2002)	(1981)	(1981)	(1978)	(1981)	(1981)	(1981)	(1986)	(1977)	(2001)	(1983)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1974 - 2003	
ANNUAL TOTAL	33,843.0		86,084.4		134	
ANNUAL MEAN	92.7		236		236	
HIGHEST ANNUAL MEAN					51.4	2003
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	1,450	Dec 25	3,900	Mar 20	7,740	Aug 27, 1995
LOWEST DAILY MEAN	2.7	Oct 7	2.7	Oct 7	0.46	Sep 30, 1983
ANNUAL SEVEN-DAY MINIMUM	3.2	Aug 8	4.1	Oct 1	0.76	Sep 28, 1983
MAXIMUM PEAK FLOW			5,720	Mar 20	12,500*	Aug 27, 1995
MAXIMUM PEAK STAGE			13.32	Mar 20	19.40*	Aug 27, 1995
INSTANTANEOUS LOW FLOW			2.0*	Oct 7	0.45	Sep 30, 1983
ANNUAL RUNOFF (CFSM)	1.00		2.55		1.45	
ANNUAL RUNOFF (INCHES)	13.63		34.66		19.75	
10 PERCENT EXCEEDS	268		759		270	
50 PERCENT EXCEEDS	22		58		33	
90 PERCENT EXCEEDS	4.5		16		8.5	

\* See REMARKS.

