

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.

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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	19	40	21	36	342	295	107	75	392	62	17
2	37	19	36	21	33	86	109	38	1,870	633	25	11
3	32	20	27	21	321	58	73	28	868	47	18	9.5
4	39	212	26	23	219	48	50	25	86	27	14	8.2
5	27	175	24	23	57	43	44	24	45	21	13	8.1
6	24	35	49	24	42	39	40	28	34	18	12	7.8
7	24	25	105	24	36	36	50	26	123	352	11	7.6
8	21	22	39	23	36	438	52	23	90	396	11	7.6
9	21	19	33	23	35	119	52	22	42	34	86	7.5
10	20	18	419	23	33	55	36	150	27	22	65	7.6
11	19	18	166	23	29	46	33	742	35	23	40	7.3
12	18	68	55	23	28	42	79	83	21	48	37	7.0
13	860	124	38	22	27	38	1,220	844	21	63	34	6.6
14	172	32	32	1,050	100	43	935	77	20	76	407	6.3
15	44	24	28	197	125	38	156	43	18	20	500	6.1
16	30	22	26	58	45	238	72	34	15	15	35	8.2
17	23	21	25	44	64	664	53	29	15	13	21	16
18	22	20	26	35	38	135	47	26	12	12	400	8.5
19	24	21	26	32	33	72	42	24	12	14	124	7.6
20	22	20	24	32	34	53	37	764	12	29	28	7.1
21	22	20	22	32	166	47	34	141	12	22	19	6.9
22	21	20	22	32	142	61	38	43	11	44	15	6.8
23	20	103	76	32	50	426	65	33	10	44	526	6.6
24	22	96	59	28	289	125	34	28	9.8	14	684	6.4
25	24	163	30	27	107	65	30	25	9.3	9.7	49	6.2
26	20	41	25	26	53	50	28	23	23	8.2	25	5.9
27	19	35	24	26	44	47	28	23	77	7.5	19	5.5
28	19	311	22	24	1,120	1,080	27	22	136	8.1	16	5.1
29	20	64	22	27	---	315	26	20	126	247	14	6.6
30	21	37	22	121	---	83	55	52	25	385	18	29
31	20	---	22	69	---	206	---	45	---	393	46	---
TOTAL	1,753	1,824	1,590	2,186	3,342	5,138	3,840	3,592	3,880.1	3,437.5	3,374	257.6
MEAN	56.5	60.8	51.3	70.5	119	166	128	116	129	111	109	8.59
MAX	860	311	419	1,050	1,120	1,080	1,220	844	1,870	633	684	29
MIN	18	18	22	21	27	36	26	20	9.3	7.5	11	5.1
CFSM	0.61	0.66	0.56	0.76	1.29	1.79	1.39	1.25	1.40	1.20	1.18	0.09
IN.	0.71	0.73	0.64	0.88	1.35	2.07	1.55	1.45	1.56	1.38	1.36	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

MEAN	96.0	99.0	121	211	205	240	131	99.0	87.0	93.8	103	89.5
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	13.8	7.43	7.07	7.95	5.03
(WY)	(1979)	(2002)	(1981)	(1981)	(1978)	(1981)	(1981)	(2004)	(1986)	(1977)	(2001)	(1983)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL TOTAL	34,068.2		34,214.2		132	
ANNUAL MEAN	93.1		93.7		236	
HIGHEST ANNUAL MEAN					51.4	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	3,530	Sep 8	1,870	Jun 2	7,740	Aug 27, 1995
LOWEST DAILY MEAN	4.9	May 29	5.1	Sep 28	0.46	Sep 30, 1983
ANNUAL SEVEN-DAY MINIMUM	5.9	May 24	6.0	Sep 23	0.76	Sep 28, 1983
MAXIMUM PEAK FLOW			3,330	Jun 2	12,500*	Aug 27, 1995
MAXIMUM PEAK STAGE			10.46	Jun 2	19.40*	Aug 27, 1995
INSTANTANEOUS LOW FLOW			4.7	Sep 29	0.45	Sep 30, 1983
ANNUAL RUNOFF (CFSM)	1.01		1.01		1.42	
ANNUAL RUNOFF (INCHES)	13.72		13.77		19.34	
10 PERCENT EXCEEDS	176		208		265	
50 PERCENT EXCEEDS	23		32		32	
90 PERCENT EXCEEDS	10		11		8.6	

\* See REMARKS.

