

BY.....DATE.....

CHKD. BY.....DATE.....

REV. BY.....DATE.....

SUBJECT.....

SHEET NO. ....

JOB NO. ....

FILE NO. ....

OF.....

HAGAN  
FORK  
Cr.

Catawba Co. NC

04 - .04 - .05  
08 - .04 - .12

IE CAHHAGAN  
EDIT HERE

\*TY

CATAWBA COUNTY FIS 10, 50, 100 & 500 YEAR FLOOD PROFILES									
10 YEAR FLOOD PROFILE ALL DATA CODED BY RDD CHECKED BY CAB									
HAGAN FORK					O'BRIEN & GERE INC/ENGINEERS				
1.000 T1	2.000 T2	3.000 T3	4.000 J1	5.000 J2	6.000 J3	7.000 J4	8.000 J5	9.000 J6	10.000 J7
							845.5	2.002	
5.100 J3	100	105	150	201					
5.130 J6	1								
6.000 NC	.09	.11	.04	.3	.5				
7.000 QT	4	848	1452	1796	2765				
8.000 X17805.1	20	558	596					2.3	
9.000 X3	10								
9.100 GR 875.0	200	868.0	236	865.5	275	854.5	319	845.5	372
9.110 GR 843.5	452	843.5	558	834.0	578	833.7	579	833.5	582
9.120 GR 833.7	585	834.0	586	840.0	596	840.5	648	841.0	699
9.130 GR 840.0	763	846.0	810	860.5	860	871.5	917	876.5	977
10.000 X17805.2	21	679	771	280	280				
11.000 X3	10						849	849	
12.000 GR 878	200	851	598	850	675	850.3	679	846.3	680
13.000 DR 839.8	695	838.6	709	837.3	710	837.4	725	837.7	728
14.000 GR 840.8	732	840.6	739	840.6	740	844.8	755	845.5	770
15.000 GR 850.3	771	850.5	780	850.5	830	851	921	858	1059
16.000 GR 878	1351								
17.000 SB 1.05	1.51	2.7		27.52	1.82	626.32	2.84		
18.000 X17805.3	679	771	26	26					
19.000 X2	1	848.3	850.3						
20.000 X3	10						849.3	849.3	
21.000 BT 9	200	878	598	851			675	850	
22.000 BT 679	850.3		771	850.3		780	850.5		830
23.000 BT 850.5		921	851	1059		858			
24.000 X17805.4	22	390	430	134	134	134			
24.100 GR 876.5	200	870.5	230	865.0	260	859.5	289	852.5	321
24.110 GR 848.0	351	844.5	390	839.5	403	839.3	404	839.0	412
24.120 GR 839.1	420	839.5	421	845.5	430	845.5	485	846.0	570
24.130 GR 848.0	642	856.0	701	857.0	755	861.0	813	864.5	870
24.140 GR 870.0	932	878.0	982						
25.000 NC .05	.05	.04							
26.000 QT 4	691	1190	1478	2295					
27.000 X17806.1	19	562	610	2010	2010				
28.000 X3	10								
28.100 GR 896.0	200	879.0	240	862.0	298	858.5	330	857.0	393
28.110 GR 855.0	460	855.0	512	857.5	562	850.0	583	849.7	584
28.120 GR 849.5	590	849.6	596	850.0	597	855.0	610	855.5	652
28.130 GR 856.0	750	867.5	790	880.0	827	895.5	883		
29.000 X17806.2	12	769	800	105	105				
30.000 X2			856.1	857.5					
31.000 X3	10								
32.000 GR 880	290	865	450	858.5	542	857.5	637	857.5	769
33.000 GR 848.2	770	846.8	785	846.8	799	857.5	800	861	846
34.000 GR 869.5	967	892.5	1155						

35.000	X17806.3		769	800	14	14	14			
36.000	X2			856.1	857.5					
37.000	X3	10								
38.000	X17807.1	18	590	630	85	85	85			
39.000	X3	10						868	868	
39.100	GR 917.0	200	887.0	283	863.5	360	857.0	433	855.5	520
39.110	GR 856.0	590	849.5	600	849.0	608	849.1	616	849.5	617
39.120	GR 856.5	630	856.5	688	859.5	732	867.5	775	875.5	805
39.130	GR 882.5	890	892.5	950	899.0	1050				
40.000	X17807.2	16	600	693	65	65	65			
41.000	X3	10								
42.000	GR 910	200	873	462	870	530	869	600	866.2	601
43.000	GR 858	616	854	630	849.6	631	848	646	849.6	660
44.000	GR 851	661	857	676	865.9	691	869.5	693	870	775
45.000	GR 898.5	1148								
46.000	SB 1.05	1.37	2.7		24.86	1.68	1058.3	1.71		
47.000	X17807.3		600	693	25	26	26			
48.000	X2		1	867	869					
49.000	X3	10						869	869	
50.000	BT 8	200	910		462	873		530	870	
51.000	BT 600	869		691	869		693	869.5		775
52.000	BT 870		1148	898.5						
53.000	X17807.4	21	618	640	125	125	125			
54.000	X3	10								
54.100	GR 920.0	200	889.5	261	865.5	341	861.5	420	861.0	431
54.110	GR 861.0	442	856.5	578	857.5	618	850.5	620	850.1	621
54.120	GR 850.0	625	850.1	630	850.5	631	857.0	640	857.5	690
54.130	GR 860.0	763	864.5	825	879.0	904	884.5	995	891.5	1100
54.140	GR 900.5	1210								
55.000	NC .09	.12	.05	.1	.3					
56.000	QT 4	580	1004	1252	1959					
57.000	X1 7808	16	485	520	2500	2500				
57.100	GR 910.0	200	889.0	273	877.5	340	870.0	422	867.5	485
57.110	GR 863.5	496	863.1	497	863.0	502	863.1	508	863.5	509
57.120	GR 868.0	520	869.5	590	870.0	640	873.0	703	889.0	760
57.130	GR 901.0	802								
58.000	NC .08	.12	.04	.3	.5					
59.000	QT 4	532	926	1154	1812					
60.000	X17809.1	24	738	770	2530	2530	2530			
61.000	X3	10								
61.100	GR 911.0	200	906.5	251	903.0	302	898.0	351	896.0	403
61.110	GR 891.5	451	887.0	496	885.0	551	884.0	616	883.5	681
61.120	GR 883.0	738	877.0	750	876.6	751	876.5	755	876.6	760
61.130	GR 877.0	761	883.5	770	883.5	810	883.5	849	888.5	882
61.140	GR 900.5	924	903.0	962	906.0	998	910.0	1035		
62.000	X17809.2	11	900	922	115	115	115			
63.000	X2			875.8	877.8					
64.000	X3			900	877.8	922	877.8			
65.000	GR 909.5	200	891.5	580	888	808	887.8	900	877.4	901
66.000	GR 877.8	911	878	915	878.3	921	887.8	922	890	972
67.000	GR 906	1262								
68.000	X17809.3		900	922	20	20	20			
69.000	X2			875.8	877.8					
70.000	X3			900	877.8	922	877.8			
71.000	EJ									

in 887.8  
 in 833.5

72.000 T1	CATAWBA COUNTY FIS 10, 50, 100 & 500 YEAR FLOOD PROFILES		
73.000 T2	50 YEAR FLOOD PROFILE		
74.000 T3	HAGAN FORK		
75.000 J1	3	846.7	2.003
76.000 J2	2		
77.000 T1	CATAWBA COUNTY FIS 10, 50, 100 & 500 YEAR FLOOD PROFILES		
78.000 T2	100 YEAR FLOOD PROFILE		
79.000 T3	HAGAN FORK		
80.000 J1	4	847.2	1.965
81.000 J2	3		
82.000 T1	CATAWBA COUNTY FIS 10, 50, 100 & 500 YEAR FLOOD PROFILES		
83.000 T2	500 YEAR FLOOD PROFILE		
84.000 T3	HAGAN FORK		
85.000 J1	5	848.4	1.946
86.000 J2	15		
87.000			
88.000			
89.000			
90.000 ER			
--EOF HIT AFTER 90.			

08130 04/05/78 0861027 14-B

[1] FRIDAY P.M. AT 12:15. SJS

HAGAN FORK

SUMMARY PRINTOUT TABLE 100

SECNO	EGLWC	ELLC	EGPRS	ELTRD	QPR	QWEIR	CLASS	H3	DEPTH	CWSEL	VCH	EG
I												
7805.301	846.25	848.30	.00	850.30	1697.70	.00	1.00	.01	8.72	846.02	3.89	846.25
7805.301	847.72	848.30	.00	850.30	2908.36	.00	1.00	.03	9.99	847.29	5.28	847.72
7805.301	848.35	848.30	848.52	850.30	3529.14	.00	10.00	.04	10.71	848.01	5.72	848.52
7805.301	849.93	848.30	850.70	850.30	5258.14	82.47	30.00	.07	12.61	849.91	6.81	850.63
7807.301	857.88	867.00	.00	869.00	1383.38	.00	1.00	.01	9.64	857.64	3.98	857.88
7807.301	860.16	867.00	.00	869.00	2383.57	.00	1.00	.02	11.78	859.78	4.91	860.16
7807.301	860.99	867.00	.00	869.00	2904.27	.00	1.00	.03	12.54	860.54	5.41	860.99
7807.301	863.29	867.00	.00	869.00	4466.07	.00	1.00	.04	14.64	862.64	6.44	863.29

1

HAGAN FORK

SUMMARY PRINTOUT TABLE 105

SECNO	CWSEL	HL	QLOSS	TOPWID	QLOB	QCH	QRDR
7805.102	845.50	.00	.00	229.44	.00	1149.13	548.57
7805.102	846.70	.00	.00	381.47	78.09	1698.26	1132.01
7805.102	847.20	.00	.00	405.39	175.03	1935.38	1418.73
7805.102	848.40	.00	.00	441.24	584.23	2557.07	2237.39
7805.199	846.00	.46	.01	89.42	.00	1697.70	.00
7805.199	847.27	.60	.04	90.61	.00	2908.36	.00
7805.199	847.78	.65	.08	90.84	.00	3529.14	.00
7805.199	848.97	.80	.23	91.39	.00	5380.68	.00
7805.301	846.02	.01	.00	89.45	.00	1697.70	.00
7805.301	847.29	.02	.00	90.62	.00	2908.36	.00
7805.301	848.01	.20	.00	90.95	.00	3529.14	.00
7805.301	849.91	.75	.00	91.82	.00	5380.69	.00
7805.398	846.12	.44	.33	202.52	15.09	1442.41	40.20
7805.398	847.45	.49	.33	265.09	75.80	2432.89	399.67
7805.398	848.22	.44	.24	294.03	133.79	2690.33	705.02
7805.398	850.24	.35	.01	322.65	372.92	3286.61	1721.16
7807.102	857.12	.27	.07	40.00	.00	1383.38	.00
7807.102	858.86	.39	.28	40.00	.00	2383.57	.00
7807.102	859.27	.40	.48	40.00	.00	2904.27	.00
7807.102	859.40	.71	1.25	40.00	.00	4466.06	.00
7807.199	857.62	.11	.09	59.74	.00	1383.38	.00
7807.199	859.76	.14	.18	67.89	.00	2383.57	.00

08132 04/05/78 0861027 14-B

[2] FRIDAY P.M. AT 12:15. SJS

7807.199	860.51	.16	.25	70.50	.00	2904.27	.00
7807.199	862.60	.21	.69	77.83	.00	4466.06	.00
7807.301	857.64	.01	.00	59.81	.00	1383.38	.00
7807.301	859.78	.02	.00	67.95	.00	2383.57	.00
7807.301	860.54	.02	.00	70.60	.00	2904.27	.00
7807.301	862.64	.03	.00	78.01	.00	4466.06	.00
* 7807.398	858.12	.76	-.02	179.25	193.12	1091.60	98.66
7807.398	860.15	.22	.03	297.26	778.54	1029.08	575.95
7807.398	861.08	.18	.08	348.73	1067.97	988.46	847.84
7807.398	863.46	.11	.16	419.75	2003.52	943.58	1518.97

1

HAGAN FORK

SUMMARY PRINTOUT TABLE 150

\* This is continuation of SCS study - make sure it lines up

I	SECD	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*G	VCH	AREA	.01K
	7805.102	.00	.00	.00	835.80	1697.70	845.50	.00	845.77	18.97	5.05	718.70	389.79
	7805.102	.00	.00	.00	835.80	2908.36	846.70	.00	847.07	23.07	6.22	1111.93	605.54
	7805.102	.00	.00	.00	835.80	3529.14	847.20	.00	847.59	23.94	6.63	1308.65	721.30
	7805.102	.00	.00	.00	835.80	5380.69	848.40	.00	848.86	25.80	7.58	1823.18	1059.33
	7805.199	280.00	.00	.00	837.30	1697.70	846.00	.00	846.24	14.23	3.90	434.80	450.11
	7805.199	280.00	.00	.00	837.30	2908.36	847.27	.00	847.70	20.06	5.30	548.67	649.32
	7805.199	280.00	.00	.00	837.30	3529.14	847.78	.00	848.32	22.85	5.93	595.16	738.23
	7805.199	280.00	.00	.00	837.30	5380.69	848.97	.00	849.88	31.35	7.64	704.12	960.93
	7805.301	26.00	850.30	848.30	837.30	1697.70	846.02	.00	846.25	14.11	3.89	435.96	451.96
	7805.301	26.00	850.30	848.30	837.30	2908.36	847.29	.00	847.72	19.79	5.28	551.04	653.75
	7805.301	26.00	850.30	848.30	837.30	3529.14	846.01	.00	848.52	20.40	5.72	617.02	781.34
	7805.301	26.00	850.30	848.30	837.30	5380.69	849.91	.00	850.63	21.91	6.81	790.00	1149.41
	7805.398	134.00	.00	.00	839.00	1697.70	846.12	844.56	847.02	51.48	7.74	293.05	236.62
	7805.398	134.00	.00	.00	839.00	2908.36	847.45	846.98	848.55	53.64	9.17	603.40	397.09
	7805.398	134.00	.00	.00	839.00	3529.14	848.22	848.55	849.20	45.58	9.09	819.33	522.76
	7805.398	134.00	.00	.00	839.00	5380.69	850.24	850.99	850.99	30.22	8.71	1447.67	978.79
	7806.102	2010.00	.00	.00	849.50	1383.38	856.20	.00	856.79	45.20	6.47	277.46	205.77
	7806.102	2010.00	.00	.00	849.50	2383.57	857.37	.00	857.92	39.98	6.83	498.41	376.96
	* 7806.102	2010.00	.00	.00	849.50	2904.27	857.58	857.58	857.88	26.95	5.73	853.29	559.47
	7806.102	2010.00	.00	.00	849.50	4466.07	857.93	.00	858.43	43.15	7.56	990.73	679.88
	7806.199	105.00	857.50	856.10	846.80	1383.38	856.86	.00	857.27	37.46	5.18	267.25	226.03
	7806.199	105.00	857.50	856.10	846.80	2383.57	858.06	853.05	858.91	119.70	7.71	375.18	217.86
	7806.199	105.00	857.50	856.10	846.80	2904.27	858.15	853.82	859.32	164.23	9.10	396.29	226.63
	* 7806.199	105.00	857.50	856.10	846.80	4466.07	859.09	859.09	860.10	152.01	9.33	649.69	362.23
	7806.301	14.00	857.50	856.10	846.80	1383.38	856.91	.00	857.33	37.51	5.18	267.30	225.86
	7806.301	14.00	857.50	856.10	846.80	2383.57	858.75	.00	859.16	61.59	5.81	553.85	303.73
	7806.301	14.00	857.50	856.10	846.80	2904.27	859.35	859.68	859.68	49.47	5.41	724.52	412.94

7806.301	14.00	857.50	856.10	846.80	4466.07	859.94.40	.00	860.39	65.95	6.48	903.98	549.94
7807.102	85.00	.00	.00	849.00	1383.38	857.12	.00	857.67	28.24	5.95	232.48	260.32
7807.102	85.00	.00	.00	849.00	2383.57	858.86	.00	859.82	36.17	7.89	302.17	396.33
7807.102	85.00	.00	.00	849.00	2904.27	859.27	.00	860.56	45.17	9.10	319.08	432.13
7807.102	85.00	.00	.00	849.00	4466.07	859.40	.00	862.35	101.90	13.79	323.85	442.42
7807.199	65.00	.00	.00	848.00	1383.38	857.62	.00	857.87	12.62	3.99	346.79	389.45
7807.199	65.00	.00	.00	848.00	2383.57	859.76	.00	860.14	14.70	4.93	483.83	621.72
7807.199	65.00	.00	.00	848.00	2904.27	860.51	.00	860.97	16.42	5.43	535.29	716.79
7807.199	65.00	.00	.00	848.00	4466.07	862.60	.00	863.25	19.09	6.47	689.95	1022.05
7807.301	26.00	869.00	867.00	848.00	1383.38	857.64	.00	857.88	12.54	3.98	347.61	390.68
7807.301	26.00	869.00	867.00	848.00	2383.57	859.78	.00	860.16	14.59	4.91	485.06	623.94
7807.301	26.00	869.00	867.00	848.00	2904.27	860.54	.00	860.99	16.24	5.41	537.32	720.62
7807.301	26.00	869.00	867.00	848.00	4466.07	862.64	.00	863.29	18.79	6.44	693.93	1030.25
* 7807.398	125.00	.00	.00	850.00	1383.38	858.12	858.12	858.93	61.08	8.03	269.96	177.01
7807.398	125.00	.00	.00	850.00	2383.57	860.15	.00	860.41	21.10	5.70	754.34	518.87
7807.398	125.00	.00	.00	850.00	2904.27	861.08	.00	861.26	13.58	4.92	1052.49	787.99
7807.398	125.00	.00	.00	850.00	4466.07	863.46	.00	863.56	5.72	3.72	1971.22	1867.93

1

I

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*8	VCH	AREA	.01K
7808.000	2500.00	.00	.00	863.00	1161.16	870.01	.00	870.38	36.42	5.30	367.25	192.40
7808.000	2500.00	.00	.00	863.00	2015.02	870.58	.00	871.28	64.79	7.56	495.47	250.33
7808.000	2500.00	.00	.00	863.00	2460.18	870.97	.00	871.72	68.77	8.12	589.50	296.67
7808.000	2500.00	.00	.00	863.00	3812.21	872.11	.00	872.92	67.44	8.99	895.46	464.20
7809.102	2530.00	.00	.00	876.50	1065.06	883.20	.00	884.13	70.06	7.73	140.07	127.24
7809.102	2530.00	.00	.00	876.50	1854.78	884.78	884.45	885.57	49.78	7.94	467.84	262.87
7809.102	2530.00	.00	.00	876.50	2267.61	885.23	.00	886.00	47.79	8.17	605.49	328.02
7809.102	2530.00	.00	.00	876.50	3526.15	886.22	.00	886.99	47.27	8.96	935.97	512.90
7809.199	115.00	877.80	875.80	877.40	1065.06	884.00	.00	885.13	86.41	8.51	125.20	114.58
7809.199	115.00	877.80	875.80	877.40	1854.78	885.18	.00	887.54	156.57	12.34	150.30	148.23
7809.199	115.00	877.80	875.80	877.40	2267.61	885.46	.00	888.73	209.83	14.51	156.30	156.54
* 7809.199	115.00	877.80	875.80	877.40	3526.15	889.28	889.28	890.25	210.27	7.92	650.24	243.17
7809.301	20.00	877.80	875.80	877.40	1065.06	884.30	.00	885.32	75.04	8.09	131.58	122.95
7809.301	20.00	877.80	875.80	877.40	1854.78	886.13	.00	887.96	109.76	10.86	170.83	177.04
7809.301	20.00	877.80	875.80	877.40	2267.61	887.32	.00	889.38	111.39	11.52	196.79	214.85
7809.301	20.00	877.80	875.80	877.40	3526.15	890.25	.00	890.63	65.35	4.97	1158.12	436.19

1

HAGAN FORK

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
7805.102	1697.70	845.50	.00	.00	.00	229.44	.00

7805.102	2908.36	846.70	1.20	.00	.00	381.47	.00
7805.102	3529.14	847.20	.50	.00	.00	405.39	.00
7805.102	5380.69	848.40	1.20	.00	.00	441.24	.00
7805.199	1697.70	846.00	.00	.50	.00	89.42	280.00
7805.199	2908.36	847.27	1.26	.57	.00	90.61	280.00
7805.199	3529.14	847.78	.51	.58	.00	90.84	280.00
7805.199	5380.69	848.97	1.20	.57	.00	91.39	280.00
7805.301	1697.70	846.02	.00	.01	.00	89.45	26.00
7805.301	2908.36	847.29	1.27	.03	.00	90.62	26.00
7805.301	3529.14	848.01	.72	.24	.00	90.95	26.00
7805.301	5380.69	849.91	1.89	.93	.00	91.82	26.00
7805.398	1697.70	846.12	.00	.11	.00	202.52	134.00
7805.398	2908.36	847.45	1.33	.16	.00	265.09	134.00
7805.398	3529.14	848.22	.77	.20	.00	294.03	134.00
7805.398	5380.69	850.24	2.03	.34	.00	322.65	134.00
7806.102	1383.38	856.20	.00	10.07	.00	185.03	2010.00
7806.102	2383.57	857.37	1.18	9.92	.00	192.38	2010.00
* 7806.102	2904.27	857.58	.21	9.36	.00	386.87	2010.00
7806.102	4466.07	857.93	.35	7.68	.00	402.70	2010.00
7806.199	1383.38	856.86	.00	.66	.00	30.87	105.00
7806.199	2383.57	858.06	1.20	.68	.00	223.14	105.00
7806.199	2904.27	858.15	.09	.57	.00	233.15	105.00
* 7806.199	4466.07	859.09	.94	1.16	.00	287.26	105.00
7806.301	1383.38	856.91	.00	.05	.00	30.88	14.00
7806.301	2383.57	858.75	1.84	.69	.00	278.00	14.00
7806.301	2904.27	859.38.27	.61	1.20	.00	294.28	14.00
7806.301	4466.07	859.94.40	.59	.85	.00	310.48	14.00
7807.102	1383.38	857.12	.00	.21	.00	40.00	85.00
7807.102	2383.57	858.86	1.74	.11	.00	40.00	85.00
7807.102	2904.27	859.27	.42	-.08	.00	40.00	85.00
7807.102	4466.07	859.40	.13	-.54	.00	40.00	85.00
7807.199	1383.38	857.62	.00	.51	.00	59.74	65.00
7807.199	2383.57	859.76	2.14	.90	.00	67.89	65.00
7807.199	2904.27	860.51	.75	1.23	.00	70.50	65.00
7807.199	4466.07	862.60	2.69	3.20	.00	77.83	65.00
7807.301	1383.38	857.64	.00	.01	.00	59.81	26.00
7807.301	2383.57	859.78	2.14	.02	.00	67.95	26.00
7807.301	2904.27	860.54	.75	.03	.00	70.60	26.00
7807.301	4466.07	862.64	2.11	.04	.00	78.01	26.00
* 7807.398	1383.38	858.12	.00	.48	.00	179.25	125.00
7807.398	2383.57	860.15	2.02	.36	.00	297.26	125.00
7807.398	2904.27	861.08	.93	.54	.00	348.73	125.00
7807.398	4466.07	863.46	2.39	.82	.00	419.75	125.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
7808.000	1161.16	870.01	.00	11.89	.00	218.35	2500.00
7808.000	2015.02	870.58	.57	10.44	.00	236.36	2500.00
7808.000	2460.18	870.97	.38	9.89	.00	248.74	2500.00
7808.000	3812.21	872.11	1.15	8.65	.00	285.33	2500.00
7809.102	1065.06	883.20	.00	13.19	.00	54.66	2530.00
7809.102	1854.78	884.78	1.58	14.20	.00	291.96	2530.00
7809.102	2267.61	885.23	.45	14.26	.00	315.65	2530.00
7809.102	3526.15	886.22	.99	14.11	.00	349.53	2530.00
7809.199	1065.06	884.00	.00	.80	.00	21.23	115.00
7809.199	1854.78	885.18	1.18	.40	.00	21.47	115.00
7809.199	2267.61	885.46	.28	.23	.00	21.53	115.00
* 7809.199	3526.15	889.28	3.82	3.06	.00	231.02	115.00
7809.301	1065.06	884.30	.00	.30	.00	21.29	20.00
7809.301	1854.78	886.13	1.83	.95	.00	21.66	20.00
7809.301	2267.61	887.32	1.19	1.86	.00	21.90	20.00
7809.301	3526.15	890.25	2.93	.97	.00	314.92	20.00

SUMMARY OF ERRORS

CAUTION SECNO= 7806.102 PROFILE= 3 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 7806.102 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 7806.102 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL  
 CAUTION SECNO= 7806.199 PROFILE= 4 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 7806.199 PROFILE= 4 MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 7807.398 PROFILE= 1 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 7807.398 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 7809.199 PROFILE= 4 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 7809.199 PROFILE= 4 MINIMUM SPECIFIC ENERGY

1 FLOOD INSURANCE ZONE DATA FOR HAGAN FORK

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10'	2'	0.2'
7805.102	0.	-1.70	-.50	1.20
7805.199	280.	-1.77	-.51	1.20
7805.301	306.	-2.00	-.72	1.89
7805.398	440.	-2.09	-.77	2.03

7806.102	2450.	-1.38	-.21	.35
7806.199	2555.	-1.29	-.09	.94
7806.301	2569.	-2.44	-.61	.59
7807.102	2654.	-2.16	-.42	.13
7807.199	2719.	-2.88	-.75	2.09
7807.301	2745.	-2.90	-.75	2.11
7807.398	2870.	-2.95	-.93	2.39
7808.000	5370.	-.96	-.38	1.15
7809.102	7900.	-2.03	-.45	.99
7809.199	8015.	-1.46	-.28	3.82
7809.301	8035.	-3.02	-1.19	2.93

WEIGHTED AVG FOR REACH -1.77 - .53 1.37

FHF FOR THE REACH = 020 WITH 96.3' OF THE REACH WITHIN .5 FEET  
 ZONE FOR THE REACH = A 4

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 ERROR CORR - 01.02  
 MODIFICATION - 50.51.52 53  
 \*\*\*\*\*

--EOF HIT AFTER 1410.

\*

*check reach & zone calculations to be sure  
 it will be agreeable w/SCS Study*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FT.)	SECTION AREA (SQ. FT.)	MEAN VELOCITY (F.P.S.)	REGULATORY (NGVD)	WITHOUT FLOODWAY (NGVD)	WITH FLOODWAY (NGVD)	INCREASE (FEET)
Hagan Fork Creek								
A	2,140	419	2,672	2.27	805.8	805.8	806.8	1.0
B	3,360	196	1,518	3.92	809.8	809.8	810.8	1.0
C	3,620	579	3,736	1.59	813.1	813.1	814.1	1.0
D	5,260	289	1,536	3.64	817.5	817.5	818.5	1.0
E	6,890	81	844	6.51	820.9	820.9	821.9	1.0
F	7,120	190	2,860	1.92	824.6	824.6	825.6	1.0
G	9,800	199	1,004	3.92	833.9	833.9	834.9	1.0
H	10,710	144	814	4.73	836.9	836.9	837.9	1.0
I	12,340	132	846	4.27	841.6	841.6	842.6	1.0
J	13,550	132	846	4.27	847.8	847.8	848.8	1.0
K-p <sup>2</sup>								
Mull Creek								
A	3,030	157	810	4.52	821.7	821.7	822.7	1.0
B	5,390	162	866	4.13	830.9	830.9	831.9	1.0
C	7,900	146	902	3.81	840.9	840.9	841.9	1.0
D	8,860	52	419	7.64	846.2	846.2	847.2	1.0
E	9,160	253	3,065	1.04	853.2	853.2	854.2	1.0
F	9,450	253	3,065	1.04	853.2	853.2	854.2	1.0
G	10,100	286	4,526	0.65	859.8	859.8	860.8	1.0
H	12,070	202	1,679	1.64	861.1	861.1	862.1	1.0

<sup>1</sup>Feet above mouth: Feet above confluence with Lyle Creek.

<sup>2</sup>No floodway computed

TABLE 2

FEDERAL EMERGENCY MANAGEMENT AGENCY  
Federal Insurance Administration

CATAWBA COUNTY, NC  
(UNINCORPORATED AREAS)

FLOODWAY DATA

HAGAN FORK CREEK-MULL CREEK