
 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 TRIB. 17 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ		
	-1.	2.	0.	0.	0.006000	0.0	0.5	0.	284.000	0.0		
J2	NPROF	IPL0T	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE		
	-1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	0.0	0.0	0.0		
NC	0.085	0.085	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0		
QT	5.000	970.000	1950.000	2600.000	4940.000	2600.000	0.0	0.0	0.0	0.0		
ET	5.000	0.0	0.0	0.0	0.0	10.400	0.0	0.0	0.0	0.0		
X1	900.000	13.000	415.000	450.000	900.000	900.000	900.000	0.0	-0.800	0.0		
GR	302.900	16.000	295.700	100.000	291.200	200.000	288.300	300.000	286.400	400.000		
GR	285.900	415.000	282.500	419.000	278.300	432.000	282.700	445.000	286.100	450.000		
GR	290.100	500.000	290.800	600.000	302.900	647.000	0.0	0.0	0.0	0.0		
X1	950.000	14.000	433.000	470.000	50.000	50.000	50.000	0.0	0.0	0.0		
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
GR	302.900	0.0	297.100	100.000	293.100	200.000	290.900	300.000	290.400	400.000		
GR	290.500	431.000	287.500	433.000	277.900	451.000	287.500	470.000	290.300	471.000		
GR	290.600	500.000	291.900	600.000	293.800	700.000	302.900	900.000	0.0	0.0		
SB	0.900	1.500	3.000	0.0	40.000	0.001	304.800	0.0	0.0	0.0		
X1	970.000	0.0	0.0	0.0	20.000	20.000	20.000	0.0	0.0	0.0		
X2	0.0	0.0	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
BT	6.000	400.000	290.400	0.0	431.000	290.500	288.300	451.000	290.400	288.300		
BT	470.000	290.300	288.200	471.000	290.300	0.0	500.000	290.600	0.0	0.0		
X1	1020.000	13.000	415.000	450.000	50.000	50.000	50.000	0.0	0.0	0.0		
GR	302.900	16.000	295.700	100.000	291.200	200.000	288.300	300.000	286.400	400.000		
GR	285.900	415.000	282.500	419.000	278.300	432.000	282.700	445.000	286.100	450.000		
GR	290.100	500.000	290.800	600.000	302.900	647.000	0.0	0.0	0.0	0.0		
X1	5050.000	16.000	548.000	567.000	4030.000	4030.000	4030.000	0.0	-0.400	0.0		
GR	322.300	0.0	315.500	100.000	313.000	200.000	309.600	300.000	308.800	400.000		
GR	307.800	500.000	304.800	548.000	302.800	558.000	304.700	567.000	308.100	600.000		
GR	310.000	700.000	310.800	800.000	312.600	900.000	314.900	1000.000	318.600	1100.000		
GR	322.300	1183.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
X1	5100.000	17.000	547.000	579.000	50.000	50.000	50.000	0.0	0.0	0.0		
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
GR	321.800	0.0	317.600	100.000	314.200	200.000	312.300	300.000	308.300	400.000		
GR	307.300	500.000	306.600	521.000	305.400	547.000	302.600	561.000	305.500	579.000		
GR	308.100	601.000	309.800	700.000	310.600	800.000	314.900	900.000	316.900	1000.000		
	950.00	9.92	287.82	0.0	0.0	289.46	1.64	0.36	0.05	287.50		

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T1 TRIB. 17 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INC	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	3.	0.	0.	0.006000	0.0	0.5	0.	286.000	0.0
J2	NPROF	IPLCT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
CCHV= 0.100	CEHV= 0.300								
900.00	10.21	287.71	0.0	286.00	288.28	0.58	0.0	0.0	285.10
1950.	258.	1637.	55.	152.	247.	36.	0.	0.	285.30
0.0	1.70	6.62	1.53	0.085	0.060	0.085	0.0	277.50	292.91
0.006027	900.	900.	900.	0	0	4	0.0	187.17	480.07

1645 INT SEC ADDED BY RAISING SEC 950.00, -0.267FT AND MULTIPLYING BY 1.157

3301 HV CHANGED MORE THAN HVINS

1.01	9.70	287.34	0.0	0.0	288.68	1.34	0.16	0.23	287.23
1950.	0.	1950.	0.	0.	210.	0.	0.	0.	287.23
0.00	0.02	9.28	0.02	0.085	0.060	0.085	0.057	277.63	501.04
0.01905	17.	17.	17.	3	0	1	0.0	42.94	543.98

1645 INT SEC ADDED BY RAISING SEC 1.01, 0.133FT AND MULTIPLYING BY 0.932

1.02	9.80	287.57	0.0	0.0	289.05	1.48	0.33	0.04	287.37
1950.	0.	1950.	0.	0.	200.	0.	0.	0.	287.37
0.00	0.03	9.76	0.03	0.085	0.060	0.085	0.057	277.77	466.91
0.020867	17.	17.	17.	2	0	1	0.0	40.13	507.05

1645 INT SEC ADDED BY RAISING SEC 1.02, 0.133FT AND MULTIPLYING BY 0.927

950.00	9.92	287.82	0.0	0.0	289.46	1.64	0.36	0.05	287.50
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T1 TRIB. 17 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.006000	0.0	0.5	0.	287.000	0.0
J2	NPROF	IPILOT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SECNO	DEPTH	CWSEL	CRW3	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
CCHV=	0.100	CEHV=	0.300						
900.00	10.96	288.46	0.0	287.00	289.06	0.60	0.0	0.0	285.10
2600.	546.	1940.	114.	253.	273.	62.	0.	0.	285.30
0.0	2.16	7.09	1.84	0.085	0.060	0.085	0.0	277.50	267.05
0.006046	900.	900.	900.	0	0	4	0.0	222.39	489.44

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRW3	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
950.00	10.09	287.99	287.99	0.0	290.73	2.74	0.61	0.0	287.50
2600.	0.	2600.	0.	0.	196.	0.	0.	0.	287.50
0.00	0.03	13.29	0.03	0.085	0.060	0.085	0.059	277.90	432.68
0.036673	50.	50.	50.	30	15	1	0.0	37.50	470.17

SPECIAL BRIDGE

5070.VARIABLE ELCHU OR ELCHD ON CARD \$B NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	3.00	0.0	40.00	0.00	304.80	0.0	277.90	277.90

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 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.006000	0.0	0.5	0.	287.000	0.0
J2	NPROF	IPLT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
900.00	10.96	288.46	0.0	287.00	289.06	0.60	0.0	0.0	289.10
2600.	546.	1940.	114.	253.	273.	62.	0.	0.	285.30
0.0	2.16	7.09	1.84	0.085	0.060	0.085	0.0	277.50	287.05
0.006046	900.	900.	900.	0	0	4	0.0	222.39	439.44

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
950.00	10.09	287.99	287.99	0.0	290.73	2.74	0.61	0.0	287.50
2600.	0.	2600.	0.	0.	196.	0.	0.	0.	287.50
0.00	0.03	13.29	0.03	0.085	0.060	0.085	0.059	277.90	432.68
0.036673	50.	50.	50.	30	15	1	0.0	37.50	470.17

SPECIAL BRIDGE

5070,VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFS	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	3.00	0.0	40.00	0.00	304.80	0.0	277.90	277.90

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 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	C	WSEL	FQ
	-10.	5.	0.	0.	0.006000	0.0	0.5	0.	289.000	0.0
J2	NPROF	IPIOT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV=	0.100	CEHV=	0.300							
SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV	
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	
900.00	12.76	290.25	0.0	289.00	290.89	0.63	0.0	0.0	285.10	
4940.	1719.	2748.	473.	575.	336.	208.	0.	0.	285.30	
0.0	2.99	6.17	2.27	0.085	0.060	0.085	0.0	277.50	204.99	
0.006078	900.	900.	900.	0	0	4	0.0	396.00	600.99	

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV	
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	
950.00	14.50	292.40	292.40	0.0	293.79	1.39	0.39	0.0	287.50	
4940.	717.	3828.	395.	293.	359.	181.	1.	0.	287.50	
0.00	2.45	10.67	2.18	0.085	0.060	0.085	0.059	277.90	231.93	
0.010517	50.	50.	50.	30	9	1	0.0	394.26	626.19	

SPECIAL BRIDGE

5070,VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
0.90	1.50	3.00	0.0	40.00	0.00	304.80	0.0	277.90	277.90	

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOOD WATER SUR

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
900.00	900.00	0.0	0.0	277.50	2600.00	288.45	334.37	289.06	222.39	0.0	0.0	7.09
950.00	50.00	0.0	0.0	277.90	2600.00	287.99	135.77	290.73	37.50	0.0	0.0	13.29
970.00	20.00	290.30	288.30	277.90	2600.00	289.77	220.92	291.30	39.33	0.0	0.0	9.97
1020.00	50.00	0.0	0.0	278.30	2600.00	291.40	715.18	291.54	406.75	0.0	0.0	3.90
5050.00	4030.00	0.0	0.0	302.40	2600.00	308.91	190.29	309.75	326.68	0.0	0.0	10.44
5100.00	50.00	0.0	0.0	302.60	2600.00	310.14	364.40	310.42	387.81	0.0	0.0	5.84
5130.00	30.00	311.70	310.60	302.60	2600.00	310.15	366.74	310.42	389.68	0.0	0.0	5.81
5180.00	50.00	0.0	0.0	302.80	2600.00	310.47	402.14	310.66	412.50	0.0	0.0	5.61
15250.00	9970.00	0.0	0.0	353.30	1510.00	361.14	174.10	361.40	379.91	0.0	0.0	5.97
15290.00	50.00	0.0	0.0	355.20	1510.00	361.51	99.85	362.11	304.89	0.0	0.0	8.33
15250.00	50.00	362.50	362.40	355.20	1510.00	363.74	457.58	363.77	442.41	0.0	0.0	2.36
15300.00	50.00	0.0	0.0	354.30	1510.00	363.79	515.67	363.82	564.43	0.0	0.0	2.49
17800.00	2500.00	0.0	0.0	369.70	1510.00	377.29	120.08	378.09	175.69	0.0	0.0	8.99
17850.00	50.00	0.0	0.0	370.20	1510.00	378.25	220.27	378.41	211.89	0.0	0.0	4.88
17910.00	60.00	376.90	377.80	370.20	1510.00	380.66	591.08	380.69	283.66	0.0	0.0	2.21
17980.00	50.00	0.0	0.0	370.70	1510.00	380.67	388.02	380.75	254.71	0.0	0.0	3.45
20580.00	2600.00	0.0	0.0	384.30	1510.00	389.08	141.41	389.24	408.66	0.0	0.0	5.71
SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH				
900.000	2600.000	288.455	0.0	0.0	0.0	222.390	0.0	900.000				
950.000	2600.000	287.986	0.0	-0.469	0.0	37.498	0.0	50.000				
970.000	2600.000	289.772	0.0	1.786	0.0	39.328	0.0	20.000				
1020.000	2600.000	291.399	0.0	1.626	0.0	406.750	0.0	50.000				
5050.000	2600.000	308.905	0.0	17.506	0.0	326.679	0.0	4030.000				
5100.000	2600.000	310.139	0.0	1.234	0.0	387.807	0.0	50.000				
5130.000	2600.000	310.147	0.0	0.008	0.0	389.680	0.0	30.000				
5180.000	2600.000	310.466	0.0	0.318	0.0	412.505	0.0	50.000				

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T1 TRIB. 17 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOODWAY

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	289.450	0.0

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300
 2800 NAT Q1= 334.37 WSEL= 288.45 ENC Q1= 334.37 WSEL= 289.45 RATIO= 0.0

NAT Q1=	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
479.			0.2973	0.6370	0.0656			289.45	
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS=	401.9	458.5	TYPE=	4	TARGET=	0.301			
900.00	11.95	289.45	0.0	288.45	290.24	0.79	0.0	0.0	285.10
2600.	185.	2310.	105.	54.	308.	32.	0.	0.	285.30
0.0	3.41	7.49	3.23	0.085	0.060	0.085	0.0	277.50	401.86
0.005751	900.	900.	900.	0	0	1	0.0	56.64	458.50

2800 NAT Q1= 135.77 WSEL= 287.99 ENC Q1= 181.20 WSEL= 288.99 RATIO= -0.3346
 NAT Q1= 181. RATIOS LOB,CH,ROB= 0.0004 0.9995 0.0002 WSEL= 288.99

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	433.0	470.0	TYPE=	4	TARGET=	0.001			
950.00	11.33	289.23	0.0	287.99	291.02	1.80	0.48	0.30	287.50
2600.	0.	2600.	0.	0.	242.	0.	0.	0.	287.50
0.00	0.0	10.75	0.02	0.035	0.060	0.085	0.059	277.90	433.00
0.019090	50.	50.	50.	2	0	1	0.0	37.00	470.00

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFQ	RLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	3.00	0.0	40.00	0.00	304.80	0.0	277.90	277.90

6790 20 TRIALS OF EG NOT ENOUGH