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

T1 TRIBUTARY 2 NEUSE RIVER TRIBUTARY BASIN 11
 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	FG
	-1.	2.	0.	0.	0.004000	0.0	0.0	0.	219.000	0.0
J2	NPROF	IPLT	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	500.000	1450.000	2500.000	4800.000	2500.000	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	5064.000	22.000	1557.500	1576.000	5064.000	5064.000	5064.000	0.0	-0.370	0.0
GR	236.200	900.000	233.100	1000.000	232.500	1056.000	233.700	1065.000	230.500	1082.000
GR	231.000	1100.000	227.800	1105.000	224.400	1200.000	222.400	1300.000	221.600	1400.000
GR	220.900	1500.000	219.800	1557.500	216.200	1557.500	216.200	1576.000	219.800	1576.000
GR	220.500	1579.000	220.800	1600.000	220.500	1700.000	221.200	1800.000	223.800	1867.000
GR	227.800	1900.000	235.400	1950.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-15.400	0.0	0.0	0.0	0.0
X1	5114.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.190	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	224.000	224.000	0.0
SB	1.250	1.500	2.500	0.0	18.500	0.500	144.000	0.0	0.0	0.0
X1	5150.000	0.0	0.0	0.0	36.000	36.000	36.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	224.000	227.600	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	227.600	227.600	0.0
BT	12.000	1000.000	235.200	0.0	1100.000	233.900	0.0	1200.000	232.000	0.0
BT	1300.000	230.300	0.0	1400.000	228.500	0.0	1500.000	227.700	0.0	1557.500
BT	227.600	0.0	1576.000	227.600	0.0	1600.000	227.800	0.0	1700.000	228.800
BT	0.0	1800.000	231.100	0.0	1900.000	234.400	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	5200.000	22.000	1560.000	1579.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	236.200	900.000	233.100	1000.000	232.500	1056.000	233.700	1065.000	230.500	1082.000
GR	231.000	1100.000	227.800	1105.000	224.400	1200.000	222.400	1300.000	221.600	1400.000
GR	220.900	1500.000	219.800	1560.000	217.800	1563.000	216.400	1569.000	219.800	1575.000
GR	220.500	1579.000	220.800	1600.000	220.500	1700.000	221.200	1800.000	223.800	1867.000
GR	227.800	1900.000	235.400	1950.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	6300.000	23.000	1777.000	1800.000	1100.000	1100.000	1100.000	0.0	0.0	0.0
GR	249.700	1000.000	246.100	1039.300	245.600	1038.000	240.400	1051.000	241.500	1069.000
GR	240.500	1081.000	246.400	1100.000	239.000	1200.000	234.500	1300.000	231.700	1400.000
GR	228.000	1500.000	223.700	1600.000	223.400	1700.000	223.900	1777.000	221.600	1780.000
GR	221.100	1780.000	220.500	1787.000	221.600	1794.000	223.300	1800.000	224.000	1900.000
GR	225.000	2000.000	235.300	2100.000	238.000	2125.000	0.0	0.0	0.0	0.0

	X1	8400.000	0.0	0.0	0.0	2100.000	2100.000	2100.000	0.0	5.450	0.0	
	QT	5.000	300.000	950.000	1450.000	2700.000	1450.000	0.0	0.0	0.0	0.0	
	X1	10500.000	20.000	1415.000	1439.000	4200.000	4200.000	4200.000	0.0	0.0	0.0	
	GR	251.800	1000.000	241.700	1100.000	236.800	1150.000	236.700	1200.000	236.800	1230.000	
1	GR	241.700	1245.000	235.500	1265.000	236.500	1300.000	236.700	1400.000	236.700	1415.000	1
2	GR	233.900	1419.000	231.400	1427.000	233.900	1435.000	236.700	1439.000	235.800	1500.000	2
3	GR	235.400	1540.000	237.700	1600.000	240.500	1700.000	245.300	1800.000	248.100	1850.000	3
4												4
5	X1	12100.000	0.0	0.0	0.0	1600.000	1600.000	1600.000	0.0	6.050	0.0	5
6	QT	5.000	170.000	600.000	800.000	1400.000	800.000	0.0	0.0	0.0	0.0	6
7	ET	5.000	0.0	0.0	0.0	0.0	-7.400	0.0	0.0	0.0	0.0	7
8												8
9	X1	13700.000	14.000	1240.000	1260.000	3200.000	3200.000	3200.000	0.0	0.0	0.0	9
10	GR	260.400	1000.000	249.400	1100.000	248.200	1125.000	246.500	1200.000	247.000	1240.000	10
11	GR	245.500	1243.000	243.500	1249.000	245.500	1255.000	247.300	1260.000	246.500	1300.000	11
12	GR	246.000	1325.000	249.700	1385.000	251.800	1400.000	261.500	1500.000	0.0	0.0	12
13	ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0	13
14												14
15	X1	14400.000	0.0	0.0	0.0	700.000	700.000	700.000	0.0	2.550	0.0	15
16	QT	5.000	125.000	460.000	600.000	1000.000	600.000	0.0	0.0	0.0	0.0	16
17	ET	0.0	0.0	0.0	0.0	0.0	7.100	1145.000	1195.000	0.0	0.0	17
18												18
19	X1	15100.000	12.000	1162.000	1183.000	1400.000	1400.000	1400.000	0.0	0.0	0.0	19
20	GR	268.700	925.000	263.800	1000.000	258.000	1100.000	254.900	1118.000	254.000	1162.000	20
21	GR	251.100	1166.000	248.600	1174.000	249.500	1182.000	254.700	1183.000	254.700	1200.000	21
22	GR	262.000	1300.000	265.000	1350.000	0.0	0.0	0.0	0.0	0.0	0.0	22
23	QT	5.000	70.000	280.000	340.000	540.000	340.000	0.0	0.0	0.0	0.0	23
24	ET	0.0	0.0	0.0	0.0	0.0	7.100	1115.000	1165.000	0.0	0.0	24
25												25
26	X1	15614.000	12.000	1137.000	1147.000	514.000	514.000	514.000	0.0	-0.300	0.0	26
27	GR	275.800	900.000	267.000	1000.000	261.700	1050.000	260.800	1100.000	261.200	1136.000	27
28	GR	260.800	1137.000	258.700	1142.000	260.800	1147.000	261.400	1150.000	260.800	1200.000	28
29	GR	262.100	1300.000	276.100	1392.000	0.0	0.0	0.0	0.0	0.0	0.0	29
30	ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0	30
31												31
32	X1	15664.000	16.000	1138.000	1146.000	50.000	50.000	50.000	0.0	0.0	0.0	32
33	X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	287.400	287.400	0.0	33
34	GR	285.700	780.000	275.000	900.000	266.200	1000.000	261.800	1040.000	261.800	1138.000	34
35	GR	259.100	1139.000	258.300	1140.000	257.900	1141.000	258.800	1142.000	257.900	1143.000	35
36	GR	258.300	1144.000	259.100	1145.000	261.800	1146.000	261.800	1305.000	275.300	1392.000	36
37	GR	288.500	1490.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37
38	SB	0.900	1.500	2.500	0.0	8.000	0.001	50.300	0.0	0.0	0.0	38
39												39
40	X1	15750.000	0.0	0.0	0.0	86.000	86.000	86.000	0.0	0.0	0.0	40
41	X2	0.0	0.0	1.000	265.800	285.700	0.0	0.0	0.0	0.0	0.0	41
42	X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	287.400	287.400	0.0	42
43	BT	14.000	780.000	285.700	285.700	1040.000	286.800	261.800	1138.000	287.400	261.800	43
44	BT	1139.000	287.400	264.400	1140.000	287.400	265.200	1141.000	287.400	265.700	1142.000	44
45	BT	287.400	265.800	1143.000	287.400	265.700	1144.000	287.400	265.200	1145.000	287.400	45
46	BT	264.400	1146.000	287.400	261.800	1305.000	287.800	261.800	1392.000	288.200	275.300	46
47	BT	1490.000	288.500	288.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47
48												48
49	X1	15800.000	12.000	1136.000	1150.000	50.000	50.000	50.000	0.0	0.0	0.0	49
50	GR	275.800	900.000	267.000	1000.000	261.700	1050.000	260.800	1100.000	261.200	1136.000	50
51	GR	260.800	1137.000	258.700	1142.000	260.800	1147.000	261.400	1150.000	260.800	1200.000	51
52	GR	262.100	1300.000	276.100	1392.000	0.0	0.0	0.0	0.0	0.0	0.0	52
53	QT	5.000	165.000	440.000	500.000	1300.000	500.000	0.0	0.0	0.0	0.0	53
54												54
55	X1	16449.000	12.000	1690.000	1711.000	649.000	649.000	649.000	0.0	-2.000	0.0	55
56	GR	277.400	1400.000	269.800	1500.000	265.700	1531.000	265.000	1600.000	266.500	1690.000	56
57	GR	263.700	1699.000	263.700	1700.000	263.600	1704.000	263.900	1709.000	265.700	1711.000	57
	GR	265.300	1735.000	277.900	1785.000	0.0	0.0	0.0	0.0	0.0	0.0	
	ET	5.000	0.0	0.0	0.0	0.0	-20.400	0.0	0.0	0.0	0.0	

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

10 YEAR FLOOD WATER SURF

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
5064.00	5064.00	0.0	0.0	215.83	500.00	220.91	79.16	221.06	355.74	0.0	0.0	3.71
5114.00	50.00	0.0	0.0	216.02	500.00	220.98	51.37	221.44	18.50	0.0	0.0	5.44
5150.00	36.00	227.60	224.00	216.02	500.00	221.03	52.15	221.48	18.50	0.0	0.0	5.39
5200.00	50.00	0.0	0.0	216.40	500.00	221.71	93.14	221.76	426.65	0.0	0.0	2.83
6300.00	1100.00	0.0	0.0	220.50	500.00	224.72	98.06	224.77	395.77	0.0	0.0	2.60
8400.00	2100.00	0.0	0.0	225.95	500.00	230.18	98.18	230.22	395.90	0.0	0.0	2.60
10500.00	4200.00	0.0	0.0	231.40	300.00	237.17	98.22	237.19	411.52	0.0	0.0	1.67
12100.00	1600.00	0.0	0.0	237.45	300.00	241.05	15.01	241.95	19.15	0.0	0.0	7.62
13700.00	3200.00	0.0	0.0	243.50	170.00	248.29	91.28	248.30	239.02	0.0	0.0	0.93
14400.00	700.00	0.0	0.0	246.05	170.00	249.17	10.47	249.57	72.72	0.0	0.0	5.36
15100.00	1400.00	0.0	0.0	248.60	125.00	253.98	42.09	254.02	20.83	0.0	0.0	1.56
15614.00	514.00	0.0	0.0	258.40	70.00	260.86	5.28	261.05	122.65	0.0	0.0	3.91
15664.00	50.00	0.0	0.0	257.90	70.00	261.50	7.23	261.67	7.78	0.0	0.0	3.36
15750.00	86.00	285.70	265.30	257.90	70.00	261.50	7.24	261.67	7.78	0.0	0.0	3.36
15800.00	50.00	0.0	0.0	258.70	70.00	261.79	23.56	261.79	226.34	0.0	0.0	0.98
16449.00	649.00	0.0	0.0	261.60	165.00	263.86	17.36	263.96	167.03	0.0	0.0	3.17
16499.00	50.00	0.0	0.0	261.80	165.00	264.65	5.67	266.09	6.00	0.0	0.0	9.64
16550.00	51.00	271.70	267.50	261.80	165.00	265.12	7.10	266.18	6.00	0.0	0.0	8.29
16700.00	150.00	0.0	0.0	263.60	165.00	266.66	58.28	266.67	216.70	0.0	0.0	1.16
17700.00	1000.00	0.0	0.0	268.00	165.00	269.89	10.91	270.03	290.13	0.0	0.0	4.53
18567.00	867.00	0.0	0.0	271.70	130.00	276.47	23.06	276.57	42.77	0.0	0.0	2.94
18617.00	50.00	0.0	0.0	271.90	130.00	276.44	21.55	276.83	7.00	0.0	0.0	5.01
18650.00	33.00	280.00	284.20	272.50	130.00	276.44	16.55	277.00	7.00	0.0	0.0	6.00
18700.00	50.00	0.0	0.0	272.10	130.00	277.14	27.60	277.22	47.64	0.0	0.0	2.58
20000.00	1300.00	0.0	0.0	285.90	40.00	287.21	1.67	287.64	9.55	0.0	0.0	5.23

SECTION NUMBER DISCHARGE CES CWSEL CWSEL DIFF EACH Q CWSEL DIFF EACH SECTION CWSEL-WSELK TOPWID T.W. DIFF LENGTH

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T1 TRIBUTARY 2 NEUSE RIVER TRIBUTARY BASIN 11
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.004000	0.0	0.0	0.	221.000	0.0

J2	NPROF	IPLT	PREVS	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

CCHV= 0.100 CEHV= 0.300

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
5064.00	6.20	222.03	0.0	221.00	222.14	0.11	0.0	0.0	219.43
1450.	372.	485.	593.	272.	115.	392.	0.	0.	219.43
0.0	1.36	4.23	1.52	0.085	0.060	0.085	0.0	215.83	1300.22
0.003970	5064.	5064.	5064.	0	0	5	0.0	530.65	1830.88

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

5720 ASSUMED CRITICAL DEPTH

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
5114.00	5.74	221.76	221.76	0.0	224.66	2.90	0.49	0.0	219.62
1450.	0.	1450.	0.	0.	106.	0.	1.	0.	219.62
0.00	0.0	13.66	0.0	0.085	0.060	0.085	0.059	216.02	1557.50
0.051115	50.	50.	50.	30	11	1	0.0	18.50	1576.00

OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 224.00 ELREA= 224.00

5114.00	5.74	221.76	221.76	0.0	224.66	2.90	0.49	0.0	219.62
1450.	0.	1450.	0.	0.	106.	0.	1.	0.	219.62
0.00	0.0	13.66	0.0	0.085	0.060	0.085	0.059	216.02	1557.50
0.051115	50.	50.	50.	30	11	1	0.0	18.50	1576.00

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 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	4.	0.	0.	0.004000	0.0	0.0	0.	222.000	0.0
J2	NPROF	IPLT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	IIRACE
	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	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	IOC	ICONT	CORAR	TOPWID	ENUST

5064.00	6.92	222.75	0.0	222.00	222.87	0.12	0.0	0.0	219.43
2500.	804.	585.	1111.	472.	128.	583.	0.	0.	219.43
0.0	1.70	4.57	1.90	0.085	0.060	0.085	0.0	215.83	1263.81
0.003995	5064.	5064.	5064.	0	0	5	0.0	585.77	1849.57

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

5720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIWS	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	IOC	ICONT	CORAR	TOPWID	ENUST

5114.00	8.03	224.05	224.05	0.0	224.08	0.04	0.10	0.0	219.62
2500.	951.	396.	1153.	827.	148.	899.	2.	1.	219.62
0.01	1.15	2.67	1.28	0.085	0.060	0.085	0.059	216.02	1208.65
0.001121	50.	50.	50.	30	12	1	0.0	661.87	1870.52

SPECIAL BRIDGE

5070 VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED
 5227 DOWNSTREAM ELEV IS 223.30 ,NOT 224.05 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

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

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	5.	0.	0.	0.004000	0.0	0.0	0.	224.000	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

SECNO	DEPTH	CWSEL	CRIWS	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

5064.00	8.07	223.90	0.0	224.00	224.03	0.13	0.0	0.0	219.43
4800.	1834.	751.	2215.	842.	149.	912.	0.	0.	219.43
0.0	2.18	5.03	2.43	0.085	0.060	0.085	0.0	215.83	1206.42
0.003951	5064.	5064.	5064.	0	0	4	0.0	664.47	1870.89

5114.00	8.08	224.10	0.0	0.0	224.23	0.13	0.20	0.00	219.62
4800.	1835.	750.	2215.	845.	149.	915.	2.	1.	219.62
0.01	2.17	5.02	2.42	0.085	0.060	0.085	0.059	216.02	1206.04
0.003922	50.	50.	50.	0	0	1	0.0	664.91	1870.95

SPECIAL BRIDGE

5070. VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	2.50	0.0	18.50	0.50	144.00	0.0	216.02	216.02

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	ELLC	ELTRD	CLASS
249.98	240.09	0.01	2523.	2313.	144.	224.00	227.60	30.00

5150.00	14.08	230.10	0.0	0.0	230.11	0.01	5.88	0.0	219.62
4800.	2369.	304.	2127.	3397.	261.	2832.	6.	1.	219.62
0.02	0.70	1.17	0.75	0.085	0.060	0.085	0.059	216.02	1101.11
0.000101	36.	36.	36.	0	0	6	0.0	815.28	1916.39

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

500 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	
9	5064.00	5064.00	0.0	0.0	215.83	500.00	220.91	79.16	221.06	355.74	0.0	0.0	3.71
10	5064.00	5064.00	0.0	0.0	215.83	1450.00	222.03	230.13	222.14	530.65	0.0	0.0	4.23
11	5064.00	5064.00	0.0	0.0	215.83	2500.00	222.75	395.54	222.87	585.77	0.0	0.0	4.57
12	5064.00	5064.00	0.0	0.0	215.83	4800.00	223.90	763.61	224.03	664.47	0.0	0.0	5.03
14	5114.00	50.00	0.0	0.0	216.02	500.00	220.98	51.37	221.44	18.50	0.0	0.0	5.44
15	5114.00	50.00	0.0	0.0	216.02	1450.00	221.76	64.13	224.66	18.50	0.0	0.0	13.66
16	5114.00	50.00	0.0	0.0	216.02	2500.00	224.05	746.79	224.08	661.87	0.0	0.0	2.67
17	5114.00	50.00	0.0	0.0	216.02	4800.00	224.10	766.48	224.23	664.91	0.0	0.0	5.02
19	5150.00	36.00	227.60	224.00	216.02	500.00	221.03	52.15	221.48	18.50	0.0	0.0	5.39
20	5150.00	36.00	227.60	224.00	216.02	1450.00	222.95	85.50	224.94	18.50	0.0	0.0	11.31
21	5150.00	36.00	227.60	224.00	216.02	2500.00	228.71	3553.26	228.72	803.93	0.0	0.0	0.76
22	5150.00	36.00	227.60	224.00	216.02	4800.00	230.10	4780.83	230.11	815.28	0.0	0.0	1.17
24	5200.00	50.00	0.0	0.0	216.40	500.00	221.71	93.14	221.76	426.65	0.0	0.0	2.83
25	5200.00	50.00	0.0	0.0	216.40	1450.00	225.16	1107.02	225.16	699.37	0.0	0.0	1.10
26	5200.00	50.00	0.0	0.0	216.40	2500.00	228.72	3373.82	228.72	802.45	0.0	0.0	0.82
27	5200.00	50.00	0.0	0.0	216.40	4800.00	230.11	4579.98	230.12	813.78	0.0	0.0	1.27
29	6300.00	1100.00	0.0	0.0	220.50	500.00	224.72	98.06	224.77	395.77	0.0	0.0	2.60
30	6300.00	1100.00	0.0	0.0	220.50	1450.00	225.62	238.68	225.70	450.56	0.0	0.0	3.66
31	6300.00	1100.00	0.0	0.0	220.50	2500.00	228.83	1239.03	228.85	559.77	0.0	0.0	1.79
32	6300.00	1100.00	0.0	0.0	220.50	4800.00	230.32	1961.32	230.36	614.53	0.0	0.0	2.46
34	8400.00	2100.00	0.0	0.0	225.95	500.00	230.18	98.18	230.22	395.90	0.0	0.0	2.60
35	8400.00	2100.00	0.0	0.0	225.95	1450.00	231.44	313.73	231.49	462.51	0.0	0.0	2.94
36	8400.00	2100.00	0.0	0.0	225.95	2500.00	231.08	241.49	231.31	451.03	0.0	0.0	6.24
37	8400.00	2100.00	0.0	0.0	225.95	4800.00	232.93	724.40	233.08	511.93	0.0	0.0	5.13
39	10500.00	4200.00	0.0	0.0	231.40	300.00	237.17	98.22	237.19	411.52	0.0	0.0	1.67
40	10500.00	4200.00	0.0	0.0	231.40	950.00	238.29	281.18	238.32	465.52	0.0	0.0	2.22
41	10500.00	4200.00	0.0	0.0	231.40	1450.00	239.69	643.17	239.70	537.80	0.0	0.0	1.75
42	10500.00	4200.00	0.0	0.0	231.40	2700.00	240.76	1027.56	240.79	589.97	0.0	0.0	2.28
44	12100.00	1600.00	0.0	0.0	237.45	300.00	241.05	15.01	241.95	19.15	0.0	0.0	7.62
45	12100.00	1600.00	0.0	0.0	237.45	950.00	243.00	75.39	243.41	402.07	0.0	0.0	6.62
46	12100.00	1600.00	0.0	0.0	237.45	1450.00	243.30	108.00	243.75	415.09	0.0	0.0	7.47
47	12100.00	1600.00	0.0	0.0	237.45	2700.00	243.76	172.10	244.37	434.77	0.0	0.0	9.43
49	13700.00	3200.00	0.0	0.0	243.50	170.00	248.29	91.28	248.30	239.02	0.0	0.0	0.93
50	13700.00	3200.00	0.0	0.0	243.50	600.00	249.78	272.92	249.79	289.00	0.0	0.0	1.43
51	13700.00	3200.00	0.0	0.0	243.50	800.00	250.43	385.72	250.44	299.49	0.0	0.0	1.48
52	13700.00	3200.00	0.0	0.0	243.50	1400.00	251.79	681.16	251.81	321.60	0.0	0.0	1.71
54	14400.00	700.00	0.0	0.0	246.05	170.00	249.17	10.47	249.57	72.72	0.0	0.0	5.36
55	14400.00	700.00	0.0	0.0	246.05	600.00	250.56	69.11	250.69	224.46	0.0	0.0	4.07
56	14400.00	700.00	0.0	0.0	246.05	800.00	251.09	114.36	251.18	248.09	0.0	0.0	3.68
57	14400.00	700.00	0.0	0.0	246.05	1400.00	252.35	277.25	252.43	289.43	0.0	0.0	3.30

WAKE COUNTY

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH	
1	18567.00	867.00	0.0	0.0	271.70	130.00	276.47	23.06	276.57	42.77	0.0	0.0	2.94
2	18567.00	867.00	0.0	0.0	271.70	600.00	277.58	50.01	278.24	143.31	0.0	0.0	8.44
3	18567.00	867.00	0.0	0.0	271.70	1030.00	278.15	79.07	278.71	227.79	0.0	0.0	8.71
4	18567.00	867.00	0.0	0.0	271.70	2000.00	279.21	182.80	279.58	315.88	0.0	0.0	8.24
5	18617.00	50.00	0.0	0.0	271.90	130.00	276.44	21.55	276.83	7.00	0.0	0.0	5.01
6	18617.00	50.00	0.0	0.0	271.90	600.00	279.81	379.73	279.83	343.86	0.0	0.0	2.43
7	18617.00	50.00	0.0	0.0	271.90	1030.00	279.93	412.16	279.98	352.92	0.0	0.0	3.43
8	18617.00	50.00	0.0	0.0	271.90	2000.00	279.86	393.68	280.08	347.81	0.0	0.0	6.93
9	18650.00	33.00	280.00	284.20	272.50	130.00	276.44	16.55	277.00	7.00	0.0	0.0	6.00
10	18650.00	33.00	280.00	284.20	272.50	600.00	279.81	246.60	279.87	300.75	0.0	0.0	3.53
11	18650.00	33.00	280.00	284.20	272.50	1030.00	280.88	509.86	280.91	377.88	0.0	0.0	2.86
12	18650.00	33.00	280.00	284.20	272.50	2000.00	281.46	707.16	281.54	407.71	0.0	0.0	4.21
13	18700.00	50.00	0.0	0.0	272.10	130.00	277.14	27.60	277.22	47.64	0.0	0.0	2.58
14	18700.00	50.00	0.0	0.0	272.10	600.00	279.88	219.01	279.91	335.15	0.0	0.0	2.40
15	18700.00	50.00	0.0	0.0	272.10	1030.00	280.92	398.65	280.94	400.75	0.0	0.0	2.20
16	18700.00	50.00	0.0	0.0	272.10	2000.00	281.54	546.01	281.59	428.02	0.0	0.0	3.28
17	20000.00	1300.00	0.0	0.0	285.90	40.00	287.21	1.67	287.64	9.55	0.0	0.0	5.23
18	20000.00	1300.00	0.0	0.0	285.90	130.00	287.99	8.09	288.27	77.58	0.0	0.0	5.31
19	20000.00	1300.00	0.0	0.0	285.90	260.00	288.32	14.49	288.69	81.63	0.0	0.0	6.70
20	20000.00	1300.00	0.0	0.0	285.90	850.00	289.18	40.21	289.92	91.66	0.0	0.0	10.07
21	5064.000	500.000	220.906	0.0	0.0	0.0	0.0	355.736	0.0	5064.000			
22	5064.000	1450.000	222.028	1.122	0.0	0.0	0.0	530.652	-174.916	5064.000			
23	5064.000	2500.000	222.754	0.726	0.0	0.0	0.0	585.765	-230.029	5064.000			
24	5064.000	4800.000	223.901	1.148	0.0	0.0	0.0	664.468	-308.732	5064.000			
25	5114.000	500.000	220.984	0.0	0.078	0.0	0.0	18.500	0.0	50.000			
26	5114.000	1450.000	221.756	0.771	-0.272	0.0	0.0	18.500	0.0	50.000			
27	5114.000	2500.000	224.047	2.291	1.293	0.0	0.0	661.867	-643.367	50.000			
28	5114.000	4800.000	224.099	0.052	0.198	0.0	0.0	664.909	-646.409	50.000			
29	5150.000	500.000	221.033	0.0	0.049	0.0	0.0	18.500	0.0	36.000			
30	5150.000	1450.000	222.951	1.918	1.195	0.0	0.0	18.500	0.0	36.000			
31	5150.000	2500.000	228.713	5.762	4.666	0.0	0.0	803.929	-785.429	36.000			
32	5150.000	4800.000	230.102	1.389	6.003	0.0	0.0	815.281	-796.781	36.000			
33	5200.000	500.000	221.708	0.0	0.674	0.0	0.0	426.649	0.0	50.000			
34	5200.000	1450.000	225.158	3.450	2.207	0.0	0.0	699.375	-272.725	50.000			
35	5200.000	2500.000	228.715	3.558	0.002	0.0	0.0	802.454	-375.804	50.000			
36	5200.000	4800.000	230.107	1.391	0.005	0.0	0.0	813.782	-387.132	50.000			
37	6300.000	500.000	224.723	0.0	3.016	0.0	0.0	395.773	0.0	1100.000			
38	6300.000	1450.000	225.619	0.895	0.461	0.0	0.0	450.556	-54.783	1100.000			
39	6300.000	2500.000	228.834	3.216	0.119	0.0	0.0	559.771	-163.999	1100.000			
40	6300.000	4800.000	230.325	1.491	0.218	0.0	0.0	614.534	-218.762	1100.000			
41	8400.000	500.000	230.176	0.0	5.453	0.0	0.0	395.898	0.0	2100.000			
42	8400.000	1450.000	231.437	1.261	5.819	0.0	0.0	462.512	-66.614	2100.000			
43	8400.000	2500.000	231.084	-0.354	2.249	0.0	0.0	451.035	-55.136	2100.000			
44	8400.000	4800.000	232.928	1.845	2.603	0.0	0.0	511.932	-116.034	2100.000			
45	10500.000	300.000	237.172	0.0	6.995	0.0	0.0	411.523	0.0	4200.000			

	10500.000	950.000	238.294	1.123	6.857	0.0	465.520	-53.996	4200.000	
	10500.000	1450.000	239.687	1.393	8.604	0.0	537.797	-126.274	4200.000	
	10500.000	2700.000	240.759	1.072	7.831	0.0	589.965	-178.442	4200.000	
	12100.000	300.000	241.049	0.0	3.878	0.0	19.149	0.0	1600.000	
	12100.000	950.000	242.999	1.950	4.705	0.0	402.066	-382.918	1600.000	
1	12100.000	1450.000	243.305	0.306	3.618	0.0	415.091	-395.942	1600.000	1
2	12100.000	2700.000	243.764	0.459	3.005	0.0	434.767	-415.618	1600.000	2
3										3
4	13700.000	170.000	248.291	0.0	7.242	0.0	239.023	0.0	3200.000	4
5	13700.000	600.000	249.777	1.486	6.778	0.0	288.995	-49.972	3200.000	5
6	13700.000	800.000	250.427	0.650	7.122	0.0	299.488	-60.465	3200.000	6
7	13700.000	1400.000	251.794	1.366	8.030	0.0	321.598	-82.575	3200.000	7
8										8
9	14400.000	170.000	249.167	0.0	0.876	0.0	72.718	0.0	700.000	9
10	14400.000	600.000	250.561	1.394	0.784	0.0	224.459	-151.741	700.000	10
11	14400.000	800.000	251.088	0.527	0.661	0.0	248.092	-175.374	700.000	11
12	14400.000	1400.000	252.355	1.267	0.561	0.0	289.432	-216.714	700.000	12
13										13
14	15100.000	125.000	253.977	0.0	4.810	0.0	20.829	0.0	1400.000	14
15	15100.000	460.000	255.919	1.941	5.358	0.0	104.653	-83.823	1400.000	15
16	15100.000	600.000	256.190	0.272	5.103	0.0	109.948	-89.119	1400.000	16
17	15100.000	1000.000	256.695	0.504	4.340	0.0	119.754	-98.925	1400.000	17
18										18
19	15614.000	70.000	260.859	0.0	6.882	0.0	122.652	0.0	514.000	19
20	15614.000	280.000	261.325	0.467	5.407	0.0	209.440	-86.789	514.000	20
21	15614.000	340.000	261.400	0.075	5.210	0.0	219.303	-96.651	514.000	21
22	15614.000	540.000	261.563	0.163	4.869	0.0	233.386	-110.734	514.000	22
23										23
24	15664.000	70.000	261.498	0.0	0.639	0.0	7.776	0.0	50.000	24
25	15664.000	280.000	262.352	0.854	1.027	0.0	8.000	-0.224	50.000	25
26	15664.000	340.000	262.701	0.349	1.301	0.0	8.000	-0.224	50.000	26
27	15664.000	540.000	264.083	1.381	2.520	0.0	8.000	-0.224	50.000	27
28										28
29	15750.000	70.000	261.498	0.0	0.0	0.0	7.777	0.0	86.000	29
30	15750.000	280.000	262.354	0.855	0.001	0.0	8.000	-0.223	86.000	30
31	15750.000	340.000	262.703	0.350	0.002	0.0	8.000	-0.223	86.000	31
32	15750.000	540.000	264.562	1.859	0.479	0.0	8.000	-0.223	86.000	32
33										33
34	15800.000	70.000	261.787	0.0	0.289	0.0	226.340	0.0	50.000	34
35	15800.000	280.000	264.123	2.336	1.770	0.0	286.075	-59.735	50.000	35
36	15800.000	340.000	264.846	0.723	2.143	0.0	297.684	-71.344	50.000	36
37	15800.000	540.000	266.992	2.146	2.430	0.0	332.077	-105.738	50.000	37
38										38
39	16449.000	165.000	263.861	0.0	2.075	0.0	167.032	0.0	649.000	39
40	16449.000	440.000	264.359	0.498	0.236	0.0	204.532	-37.500	649.000	40
41	16449.000	500.000	265.002	0.643	0.156	0.0	220.615	-53.583	649.000	41
42	16449.000	1300.000	267.101	2.099	0.109	0.0	244.805	-77.773	649.000	42
43										43
44	16499.000	165.000	264.651	0.0	0.790	0.0	6.000	0.0	50.000	44
45	16499.000	440.000	267.301	2.650	2.942	0.0	6.000	0.0	50.000	45
46	16499.000	500.000	267.776	0.475	2.774	0.0	6.000	0.0	50.000	46
47	16499.000	1300.000	272.859	5.063	5.738	0.0	6.000	0.0	50.000	47
48										48
49	16550.000	165.000	265.117	0.0	0.466	0.0	6.000	0.0	51.000	49
50	16550.000	440.000	271.127	6.010	3.826	0.0	6.000	0.0	51.000	50
51	16550.000	500.000	271.053	-0.074	3.277	0.0	6.000	0.0	51.000	51
52	16550.000	1300.000	273.458	2.406	0.619	0.0	6.000	0.0	51.000	52
53										53
54	16700.000	165.000	266.664	0.0	1.546	0.0	216.696	0.0	150.000	54
55	16700.000	440.000	272.192	5.529	1.065	0.0	293.728	-77.032	150.000	55
56	16700.000	500.000	272.448	0.256	1.396	0.0	298.101	-81.405	150.000	56
57	16700.000	1300.000	279.361	6.913	5.903	0.0	385.000	-168.304	150.000	57
	17700.000	165.000	269.890	0.0	3.226	0.0	290.125	0.0	1000.000	
	17700.000	810.000	272.275	2.385	0.043	0.0	441.608	-151.484	1000.000	

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

T1 TRIBUTARY 2 NEUSE RIVER TRIBUTARY BASIN 11
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	SIRT	METRIC	HVINS	Q	WSEL	FG
	-1.	4.	0.	0.	0.004000	0.0	0.5	0.	222.000	0.0
J2	NPROF	IPL0T	PRFVS	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	500.000	1450.000	2500.000	4800.000	2500.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0
X1	5064.000	22.000	1557.500	1576.000	5064.000	5064.000	5064.000	5064.000	0.0	-0.370
GR	236.200	900.000	233.100	1000.000	232.500	1056.000	233.700	1065.000	230.500	1082.000
GR	231.000	1100.000	227.800	1105.000	224.400	1200.000	222.400	1300.000	221.600	1400.000
GR	220.900	1500.000	219.800	1557.500	216.200	1557.500	216.200	1576.000	219.800	1576.000
GR	220.500	1579.000	220.800	1600.000	220.500	1700.000	221.200	1800.000	223.800	1867.000
GR	227.800	1900.000	235.400	1950.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	0.0	-15.400	0.0	0.0	0.0
X1	5114.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.190	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	224.000	224.000	0.0
SB	1.250	1.500	2.500	0.0	18.500	0.500	144.000	0.0	0.0	0.0
X1	5150.000	0.0	0.0	0.0	36.000	36.000	36.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	224.000	227.600	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	227.600	227.600	0.0
BT	12.000	1000.000	235.200	0.0	1100.000	233.900	0.0	1200.000	232.000	0.0
BT	1300.000	230.300	0.0	1400.000	228.500	0.0	1500.000	227.700	0.0	1557.500
BT	227.600	0.0	1576.000	227.600	0.0	1600.000	227.800	0.0	1700.000	228.800
BT	0.0	1800.000	231.100	0.0	1900.000	234.400	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0
X1	5200.000	22.000	1560.000	1579.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	236.200	900.000	233.100	1000.000	232.500	1056.000	233.700	1065.000	230.500	1082.000
GR	231.000	1100.000	227.800	1105.000	224.400	1200.000	222.400	1300.000	221.600	1400.000
GR	220.900	1500.000	219.800	1560.000	217.800	1563.000	216.400	1569.000	219.800	1575.000
GR	220.500	1579.000	220.800	1600.000	220.500	1700.000	221.200	1800.000	223.800	1867.000
GR	227.800	1900.000	235.400	1950.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	6300.000	23.000	1777.000	1800.000	1100.000	1100.000	1100.000	0.0	0.0	0.0
GR	249.700	1000.000	246.100	1009.000	245.600	1038.000	240.400	1051.000	241.500	1069.000
GR	240.500	1081.000	246.400	1100.000	239.000	1200.000	234.500	1300.000	231.700	1400.000
GR	228.000	1500.000	223.700	1600.000	223.400	1700.000	223.900	1777.000	221.600	1780.000
GR	221.100	1780.000	220.500	1787.000	221.600	1794.000	223.300	1800.000	224.000	1900.000
GR	225.000	2000.000	235.300	2100.000	238.000	2125.000	0.0	0.0	0.0	0.0

	X1	8400.000	0.0	0.0	0.0	2100.000	2100.000	2100.000	0.0	5.450	0.0	
	QT	5.000	300.000	950.000	1450.000	2700.000	1450.000	0.0	0.0	0.0	0.0	
	X1	10500.000	20.000	1415.000	1439.000	4200.000	4200.000	4200.000	0.0	0.0	0.0	
	GR	251.800	1000.000	241.700	1100.000	236.800	1150.000	236.700	1200.000	236.800	1230.000	
1	GR	241.700	1245.000	235.500	1265.000	236.500	1300.000	236.700	1400.000	236.700	1415.000	1
2	GR	233.900	1419.000	231.400	1427.000	233.900	1435.000	236.700	1439.000	235.800	1500.000	2
3	GR	235.400	1540.000	237.700	1600.000	240.500	1700.000	245.300	1800.000	248.100	1850.000	3
4												4
5	X1	12100.000	0.0	0.0	0.0	1600.000	1600.000	1600.000	0.0	6.050	0.0	5
6	QT	5.000	170.000	600.000	800.000	1400.000	800.000	0.0	0.0	0.0	0.0	6
7	ET	5.000	0.0	0.0	0.0	0.0	-7.400	0.0	0.0	0.0	0.0	7
8												8
9	X1	13700.000	14.000	1240.000	1260.000	3200.000	3200.000	3200.000	0.0	0.0	0.0	9
10	GR	260.400	1000.000	249.400	1100.000	248.200	1125.000	246.500	1200.000	247.000	1240.000	10
11	GR	245.500	1243.000	243.500	1249.000	245.500	1255.000	247.300	1260.000	246.500	1300.000	11
12	GR	246.000	1325.000	249.700	1385.000	251.800	1400.000	261.500	1500.000	0.0	0.0	12
13	ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0	13
14												14
15	X1	14400.000	0.0	0.0	0.0	700.000	700.000	700.000	0.0	2.550	0.0	15
16	QT	5.000	125.000	460.000	600.000	1000.000	600.000	0.0	0.0	0.0	0.0	16
17	ET	0.0	0.0	0.0	0.0	0.0	7.100	1145.000	1195.000	0.0	0.0	17
18												18
19	X1	15100.000	12.000	1162.000	1183.000	1400.000	1400.000	1400.000	0.0	0.0	0.0	19
20	GR	268.700	925.000	263.800	1000.000	258.000	1100.000	254.900	1118.000	254.000	1162.000	20
21	GR	251.100	1166.000	248.600	1174.000	249.500	1182.000	254.700	1183.000	254.700	1200.000	21
22	GR	262.000	1300.000	265.000	1350.000	0.0	0.0	0.0	0.0	0.0	0.0	22
23	QT	5.000	70.000	280.000	340.000	540.000	340.000	0.0	0.0	0.0	0.0	23
24	ET	0.0	0.0	0.0	0.0	0.0	7.100	1115.000	1165.000	0.0	0.0	24
25												25
26	X1	15614.000	12.000	1137.000	1147.000	514.000	514.000	514.000	0.0	-0.300	0.0	26
27	GR	275.800	900.000	267.000	1000.000	261.700	1050.000	260.800	1100.000	261.200	1136.000	27
28	GR	260.800	1137.000	258.700	1142.000	260.800	1147.000	261.400	1150.000	260.800	1200.000	28
29	GR	262.100	1300.000	276.100	1392.000	0.0	0.0	0.0	0.0	0.0	0.0	29
30	ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0	30
31												31
32	X1	15664.000	16.000	1138.000	1146.000	50.000	50.000	50.000	0.0	0.0	0.0	32
33	X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	287.400	287.400	0.0	33
34	GR	285.700	780.000	275.000	900.000	266.200	1000.000	261.800	1040.000	261.800	1138.000	34
35	GR	259.100	1139.000	258.300	1140.000	257.900	1141.000	258.800	1142.000	257.900	1143.000	35
36	GR	258.300	1144.000	259.100	1145.000	261.800	1146.000	261.800	1305.000	275.300	1392.000	36
37	GR	288.500	1490.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37
38	SB	0.900	1.500	2.500	0.0	8.000	0.001	50.300	0.0	0.0	0.0	38
39												39
40	X1	15750.000	0.0	0.0	0.0	86.000	86.000	86.000	0.0	0.0	0.0	40
41	X2	0.0	0.0	1.000	265.800	285.700	0.0	0.0	0.0	0.0	0.0	41
42	X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	287.400	287.400	0.0	42
43	BT	14.000	780.000	285.700	285.700	1040.000	286.800	261.800	1138.000	287.400	261.800	43
44	BT	1139.000	287.400	264.400	1140.000	287.400	265.200	1141.000	287.400	265.700	1142.000	44
45	BT	287.400	265.800	1143.000	287.400	265.700	1144.000	287.400	265.200	1145.000	287.400	45
46	BT	264.400	1146.000	287.400	261.800	1305.000	287.800	261.800	1392.000	288.200	275.300	46
47	BT	1490.000	288.500	288.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47
48												48
49	X1	15800.000	12.000	1136.000	1150.000	50.000	50.000	50.000	0.0	0.0	0.0	49
50	GR	275.800	900.000	267.000	1000.000	261.700	1050.000	260.800	1100.000	261.200	1136.000	50
51	GR	260.800	1137.000	258.700	1142.000	260.800	1147.000	261.400	1150.000	260.800	1200.000	51
52	GR	262.100	1300.000	276.100	1392.000	0.0	0.0	0.0	0.0	0.0	0.0	52
53	QT	5.000	165.000	440.000	500.000	1300.000	500.000	0.0	0.0	0.0	0.0	53
54												54
55	X1	16449.000	12.000	1690.000	1711.000	649.000	649.000	649.000	0.0	-2.000	0.0	55
56	GR	277.400	1400.000	269.800	1500.000	265.700	1531.000	265.000	1600.000	266.500	1690.000	56
57	GR	263.700	1699.000	263.700	1700.000	263.600	1704.000	263.900	1709.000	265.700	1711.000	57
58	GR	265.300	1735.000	277.900	1785.000	0.0	0.0	0.0	0.0	0.0	0.0	58
59	ET	5.000	0.0	0.0	0.0	0.0	-20.400	0.0	0.0	0.0	0.0	59

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 GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
5064.00	5064.00	0.0	0.0	215.83	2500.00	222.75	395.54	222.87	585.77	0.0	0.0	4.57
5114.00	50.00	0.0	0.0	216.02	2500.00	224.05	746.79	224.08	661.87	0.0	0.0	2.67
5150.00	36.00	227.60	224.00	216.02	2500.00	228.71	3553.26	228.72	803.93	0.0	0.0	0.76
5200.00	50.00	0.0	0.0	216.40	2500.00	228.72	3373.78	228.72	802.45	0.0	0.0	0.82
6300.00	1100.00	0.0	0.0	220.50	2500.00	228.83	1235.94	228.85	559.51	0.0	0.0	1.80
8400.00	2100.00	0.0	0.0	225.95	2500.00	231.09	242.61	231.32	451.22	0.0	0.0	6.22
10500.00	4200.00	3.0	0.0	231.40	1450.00	239.69	642.40	239.70	537.67	0.0	0.0	1.76
12100.00	1600.00	0.0	0.0	237.45	1450.00	243.30	108.00	243.75	415.09	0.0	0.0	7.47
13700.00	3200.00	0.0	0.0	243.50	800.00	250.43	385.54	250.45	299.47	0.0	0.0	1.48
14400.00	700.00	0.0	0.0	246.05	800.00	251.09	115.04	251.19	248.34	0.0	0.0	3.66
15100.00	1400.00	0.0	0.0	248.60	600.00	256.18	116.03	256.34	109.77	0.0	0.0	3.61
15614.00	514.00	0.0	0.0	258.40	340.00	261.40	20.20	261.65	219.30	0.0	0.0	6.17
15664.00	50.00	0.0	0.0	257.90	340.00	262.72	12.71	264.64	7.99	0.0	0.0	11.13
15750.00	86.00	285.70	265.80	257.90	340.00	262.72	12.72	264.64	7.99	0.0	0.0	11.12
15800.00	50.00	0.0	0.0	258.70	340.00	264.84	405.62	264.84	297.64	0.0	0.0	0.56
16449.00	649.00	0.0	0.0	261.60	500.00	265.00	84.24	265.05	220.46	0.0	0.0	2.67
16499.00	50.00	0.0	0.0	261.80	500.00	267.78	16.49	270.79	6.00	0.0	0.0	13.94
16550.00	51.00	271.70	267.50	261.80	500.00	271.05	29.75	272.31	6.00	0.0	0.0	9.00
16700.00	150.00	0.0	0.0	263.60	500.00	272.45	1079.88	272.45	298.18	0.0	0.0	0.44
17700.00	1000.00	0.0	0.0	268.00	1250.00	272.58	370.57	272.60	462.88	0.0	0.0	2.03
18567.00	867.00	0.0	0.0	271.70	1030.00	278.15	70.00	278.71	227.83	0.0	0.0	8.70
18617.00	50.00	0.0	0.0	271.90	1030.00	279.93	412.09	279.98	352.90	0.0	0.0	3.43
18650.00	33.00	280.00	284.20	272.50	1030.00	280.86	509.86	280.91	377.88	0.0	0.0	2.86
18700.00	50.00	0.0	0.0	272.10	1030.00	280.92	400.53	280.94	401.16	0.0	0.0	2.13
20000.00	1300.00	0.0	0.0	285.90	260.00	288.32	14.49	288.69	81.63	0.0	0.0	6.70

SECTION DISCHARGE CWSEL CWSEL DIFF CWSEL DIFF CWSEL-WSELK TOPWID T.W. DIFF LENGTH
 NUMBER CFS EACH Q EACH SECTION

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

T1 TRIBUTARY 2 NEUSE RIVER TRIBUTARY BASIN 11
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOODWAY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	223.470	0.0

J2	NPROF	IPLT	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
 2800 NAT Q1= 395.54 WSEL= 222.75 ENC Q1= 395.54 WSEL= 223.75 RATIO= 0.0

NAT Q1=	709.	RATIOS	LOB,CH,ROB=	0.3762	0.1636	0.4602	WSEL=	223.75	
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

3470 ENCKROACHMENT STATIONS=	1466.7	1685.8	TYPE=	4	TARGET=	0.442			
5064.00	7.64	223.47	0.0	222.75	223.69	0.22	0.0	0.0	219.43
2500.	800.	768.	932.	295.	141.	350.	0.	0.	219.43
0.0	2.71	5.43	2.67	0.085	0.060	0.085	0.0	215.83	1466.69
0.004958	5064.	5064.	5064.	0	0	1	0.0	219.08	1685.77

2800 NAT Q1= 746.79 WSEL= 224.05 ENC Q1= 746.79 WSEL= 225.55 RATIO= 0.0
 NAT Q1= 1424. RATIOS LOB,CH,ROB= 0.4282 0.1107 0.4611 WSEL= 225.55

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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

3470 ENCKROACHMENT STATIONS=	1444.6	1692.1	TYPE=	4	TARGET=	0.476			
5114.00	8.07	224.09	224.09	224.05	224.23	0.14	0.19	0.0	219.62
2500.	899.	653.	948.	402.	149.	421.	1.	0.	219.62
0.00	2.24	4.37	2.25	0.085	0.060	0.085	0.059	216.02	1444.57
0.002979	50	50	50	30	11	1	0.0	247.50	1692.07

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOODWAY

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
A	5064.00	5064.00	0.0	0.0	215.83	2500.00	222.75	395.54	222.87	585.77	0.0	4.57
	5064.00	5064.00	0.0	0.0	215.83	2500.00	223.47	355.05	223.69	219.08	1466.69	5.43
	5114.00	50.00	0.0	0.0	216.02	2500.00	224.05	746.79	224.08	661.87	0.0	2.67
	5114.00	50.00	0.0	0.0	216.02	2500.00	224.09	458.03	224.23	247.50	1444.57	4.37
	5150.00	36.00	0.0	0.0	216.02	2500.00	228.71	3553.26	228.72	803.93	0.0	0.76
	5150.00	36.00	0.0	0.0	216.02	2500.00	228.76	2719.12	228.77	465.57	1310.23	1.00
B	5200.00	50.00	0.0	0.0	216.40	2500.00	228.72	3373.78	228.72	802.45	0.0	0.82
	5200.00	50.00	0.0	0.0	216.40	2500.00	228.76	2802.43	228.77	514.31	1281.53	1.00
C	6300.00	1100.00	0.0	0.0	220.50	2500.00	228.83	1235.94	228.85	559.51	0.0	1.80
	6300.00	1100.00	0.0	0.0	220.50	2500.00	228.94	970.86	228.97	317.91	1620.33	2.31
	8400.00	2100.00	0.0	0.0	225.95	2500.00	231.09	242.61	231.32	451.22	0.0	6.22
	8400.00	2100.00	0.0	0.0	225.95	2500.00	232.18	257.93	232.55	170.85	1694.16	6.85
A	10500.00	4200.00	0.0	0.0	231.40	1450.00	239.69	642.40	239.70	537.67	0.0	1.76
	10500.00	4200.00	0.0	0.0	231.40	1450.00	240.69	639.89	240.72	263.61	1272.47	1.95
	12100.00	1600.00	0.0	0.0	237.45	1450.00	243.30	108.00	243.75	415.09	0.0	7.47
	12100.00	1600.00	0.0	0.0	237.45	1450.00	244.18	97.31	245.26	98.57	1370.04	9.55
B	13700.00	3200.00	0.0	0.0	243.50	800.00	250.43	385.54	250.45	299.47	0.0	1.48
	13700.00	3200.00	0.0	0.0	243.50	800.00	251.28	425.26	251.30	171.69	1158.07	1.48
	14400.00	700.00	0.0	0.0	246.05	800.00	251.09	115.04	251.19	248.34	0.0	3.66
	14400.00	700.00	0.0	0.0	246.05	800.00	251.78	95.89	252.03	86.07	1209.07	4.99
C	15100.00	1400.00	0.0	0.0	248.60	600.00	256.18	116.03	256.34	109.77	0.0	3.61
	15100.00	1400.00	0.0	0.0	248.60	600.00	257.02	135.32	257.17	50.00	1145.00	3.38
D	15614.00	514.00	0.0	0.0	258.40	340.00	261.40	20.20	261.65	219.30	0.0	6.17
	15614.00	514.00	0.0	0.0	258.40	340.00	261.94	18.59	262.57	50.00	1115.00	7.88
	15664.00	50.00	0.0	0.0	257.90	340.00	262.72	12.71	264.64	7.99	0.0	11.13
	15664.00	50.00	0.0	0.0	257.90	340.00	263.34	15.78	264.77	8.00	1138.00	9.60
	15750.00	86.00	285.70	265.80	257.90	340.00	262.72	12.72	264.64	7.99	0.0	11.12
	15750.00	86.00	285.70	265.80	257.90	340.00	263.72	17.93	264.93	8.00	0.0	8.81
E	15800.00	50.00	0.0	0.0	258.70	340.00	264.84	405.62	264.84	297.64	0.0	0.56
	15800.00	50.00	0.0	0.0	258.70	340.00	265.06	316.93	265.07	166.82	1077.43	0.74
F	16449.00	649.00	0.0	0.0	261.60	500.00	265.00	84.24	265.05	220.46	0.0	2.67
	16449.00	649.00	0.0	0.0	261.60	500.00	265.17	41.50	265.53	81.81	1637.07	5.69
	16499.00	50.00	0.0	0.0	261.80	500.00	267.78	16.49	270.79	6.00	0.0	13.94
	16499.00	50.00	0.0	0.0	261.80	500.00	267.77	16.48	270.79	6.00	1597.00	13.95
	16550.00	51.00	0.0	0.0	261.80	500.00	271.05	29.75	272.31	6.00	0.0	9.00

16550.00 51.00 0.0 0.0 261.80 500.00 271.05 29.74 272.31 6.00 1597.00 1603.00 9.01

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORO	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
G	15700.00	150.00	0.0	0.0	263.60	500.00	272.45	1079.88	272.45	298.18	122 0.0 1704 0.0 27	0.44
	16700.00	150.00	0.0	0.0	263.60	500.00	272.46	717.23	272.46	150.03	1581.47 1731.50	0.67
H	17700.00	1000.00	0.0	0.0	268.00	1250.00	272.58	370.57	272.60	462.68	94 0.0 4595 0.0 57	2.03
	17700.00	1000.00	0.0	0.0	268.00	1250.00	272.75	175.69	272.89	141.02	4510.66 4651.68	4.40
J	18567.00	867.00	0.0	0.0	271.70	1030.00	278.15	79.08	278.71	227.83	93 0.0 1354 0.0 134	8.70
	18567.00	867.00	0.0	0.0	271.70	1030.00	278.46	102.17	278.78	227.00	1261.00 1488.00	6.99
	18617.00	50.00	0.0	0.0	271.90	1030.00	279.93	412.09	279.98	352.90	0.0 0.0	3.43
	18617.00	50.00	0.0	0.0	271.90	1030.00	279.93	212.99	280.26	70.13	1331.49 1401.62	6.64
	18650.00	33.00	0.0	0.0	272.50	1030.00	280.88	509.86	280.91	377.88	0.0 0.0	2.86
	18650.00	33.00	0.0	0.0	272.50	1030.00	280.88	270.21	281.08	84.25	1326.38 1410.64	5.40
J	18700.00	50.00	0.0	0.0	272.10	1030.00	280.92	400.53	280.94	401.16	39 0.0 1354 0.0 62	2.19
	18700.00	50.00	0.0	0.0	272.10	1030.00	281.08	239.14	281.18	100.74	1315.24 1415.98	3.71
	20000.00	1300.00	0.0	0.0	285.90	260.00	288.32	14.49	288.69	81.63	0.0 0.0	6.70
	20000.00	1300.00	0.0	0.0	285.90	260.00	289.31	11.45	290.80	9.00	1255.00 1264.00	9.81

USE "O" ENC

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
A	5064.000	222.754	0.0	0.0	0.0	585.765	0.0	5064.000
	5064.000	223.470	0.716	0.0	0.0	219.080	366.685	5064.000
	5114.000	224.047	0.0	1.293	0.0	661.867	0.0	50.000
	5114.000	224.094	0.047	0.624	0.0	247.502	414.365	50.000
	5150.000	228.713	0.0	4.666	0.0	803.929	0.0	36.000
	5150.000	228.760	0.047	4.666	0.0	465.571	338.359	36.000
B	5200.000	228.715	0.0	0.002	0.0	802.453	0.0	50.000
	5200.000	228.765	0.049	0.005	0.0	514.310	288.143	50.000
C	6300.000	228.834	0.0	0.119	0.0	559.508	0.0	1100.000
	6300.000	228.936	0.102	0.172	0.0	317.909	241.599	1100.000
V	8400.000	231.091	0.0	2.257	0.0	451.224	0.0	2100.000
	8400.000	232.176	1.085	3.240	0.0	170.852	280.372	2100.000
A	10500.000	239.687	0.0	8.595	0.0	537.669	0.0	4200.000
	10500.000	240.689	1.003	8.513	0.0	263.613	274.056	4200.000
	12100.000	243.305	0.0	3.618	0.0	415.090	0.0	1600.000
	12100.000	244.183	0.878	3.493	0.0	98.571	316.520	1600.000
B	13700.000	250.432	0.0	7.127	0.0	299.472	0.0	3200.000
	13700.000	251.284	0.851	7.101	0.0	171.690	127.782	3200.000
	14400.000	251.092	0.0	0.660	0.0	248.344	0.0	700.000
	14400.000	251.785	0.692	0.501	0.0	86.071	162.273	700.000
B	15100.000	256.185	0.0	5.093	0.0	109.773	0.0	1400.000
	15100.000	257.021	0.836	5.236	0.0	49.999	59.774	1400.000
D	15614.000	261.400	0.0	5.216	0.0	219.303	0.0	514.000
	15614.000	261.938	0.538	4.917	0.0	49.999	169.304	514.000

1	15664.000	340.000	262.721	0.0	1.321	0.0	7.994	0.0	50.000	1
2	15664.000	340.000	263.335	0.614	1.397	0.0	8.000	-0.006	50.000	2
3	15750.000	340.000	262.723	0.0	0.002	0.0	7.994	0.0	86.000	3
4	15750.000	340.000	263.722	0.999	0.387	0.0	8.000	-0.006	86.000	4
5	D 15800.000	340.000	264.840	0.0	2.117	0.0	297.636	0.0	50.000	5
6	15800.000	340.000	265.064	0.224	1.342	0.0	166.817	130.819	50.000	6
7	E 16449.000	500.000	264.996	0.0	0.156	0.0	220.456	0.0	649.000	7
8	16449.000	500.000	265.170	0.174	0.106	0.0	81.815	138.641	649.000	8
9	16499.000	500.000	267.776	0.1	2.779	0.0	6.000	0.0	50.000	9
10	16499.000	500.000	267.775	-0.001	2.605	0.0	6.000	0.0	50.000	10
11	16550.000	500.000	271.053	0.0	3.277	0.0	6.000	0.0	51.000	11
12	16550.000	500.000	271.052	-0.001	3.277	0.0	6.000	0.0	51.000	12
13	G 16700.000	500.000	272.447	0.0	1.394	0.0	298.184	0.0	150.000	13
14	16700.000	500.000	272.460	0.013	1.408	0.0	150.027	148.157	150.000	14
15	H 17700.000	1250.000	272.577	0.0	0.131	0.0	462.879	0.0	1000.000	15
16	17700.000	1250.000	272.750	0.173	0.291	0.0	141.023	321.855	1000.000	16
17	I 18567.000	1030.000	278.150	0.0	5.573	0.0	227.830	0.0	867.000	17
18	18567.000	1030.000	278.456	0.306	5.706	0.0	226.999	0.831	867.000	18
19	18617.000	1030.000	279.932	0.0	1.782	0.0	352.899	0.0	50.000	19
20	18617.000	1030.000	279.930	-0.001	1.474	0.0	70.130	282.769	50.000	20
21	18650.000	1030.000	280.879	0.0	0.947	0.0	377.884	0.0	33.000	21
22	18650.000	1030.000	280.877	-0.001	0.947	0.0	84.254	293.630	33.000	22
23	J 18700.000	1030.000	280.919	0.0	0.040	0.0	401.159	0.0	50.000	23
24	18700.000	1030.000	281.075	0.156	0.198	0.0	100.741	300.418	50.000	24
25	20000.000	260.000	288.318	0.0	7.399	0.0	81.634	0.0	1300.000	25
26	20000.000	260.000	289.311	0.993	8.236	0.0	9.001	72.633	1300.000	26

35	DATA FOR LAST CROSS SECTION					35	
36	PROFILE	TYPE	ENC	TARGET	TOP WIDTH	TOP WIDTH	36
37					AREA-ACRES	AREA-DIFF	37
38							38
39	1			0.0	176.411	0.0	39
40	2			4.000	77.093	-99.318	40
41							41
42							42
43							43
44							44
45							45
46							46
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48							48
49							49
50							50
51							51
52							52
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54							54
55							55
56							56
57							57