

RICHARDSON
CREEK
TRIBUTARY

HEC2 RELEASE DATED NOV 76 UPDATED JULY 1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53

RICHARDSON CREEK TRIBUTARY
 PROFILE

T1 CITY OF MONROE, NC SEPT. 1980
 T2 10 YEAR FLOOD
 T3 QUARRY TRIBUTARY

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	0.	2.	0.	0.	0.040000	0.0	0.0	0.	475.630	0.0

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

J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	150.000	201.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

J5	LPRNT	NUMSEC	*****REQUESTED SECTION NUMBERS*****							
	-10.000	-10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.180	0.180	0.070	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	1010.000	1827.000	2043.000	2287.000	2043.000	0.0	0.0	0.0	0.0

X1	300.000	26.000	345.000	415.000	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
GR	500.000	100.000	490.000	115.000	488.000	150.000	486.000	210.000	484.000	315.000
GR	482.000	345.000	480.000	355.000	476.000	360.000	470.000	362.000	470.000	378.000
GR	476.000	380.000	482.000	410.000	484.000	415.000	484.000	445.000	482.000	490.000
GR	480.000	500.000	480.000	535.000	482.000	560.000	486.000	580.000	488.000	685.000
GR	490.000	715.000	492.000	755.000	494.000	835.000	496.000	875.000	498.000	935.000
GR	500.000	965.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	500.000	28.000	200.000	240.000	200.000	200.000	200.000	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	510.000	100.000	508.000	130.000	506.000	150.000	504.000	165.000	502.000	195.000
GR	500.000	200.000	492.000	202.000	486.400	203.000	486.400	219.000	492.000	220.000
GR	496.000	230.000	505.000	240.000	496.000	250.000	494.000	255.000	488.000	290.000
GR	488.000	330.000	480.000	340.000	467.600	365.000	467.700	550.000	474.000	575.000
GR	490.000	645.000	496.000	660.000	497.000	670.000	498.000	700.000	500.000	735.000
GR	506.000	020.000	508.000	905.000	510.000	915.000	0.0	0.0	0.0	0.0

X1	600.000	0.0	0.0	0.0	100.000	100.000	100.000	0.0	5.400	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.120	0.120	0.070	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	980.000	21.000	200.000	242.000	380.000	380.000	380.000	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	520.000	100.000	514.000	180.000	510.000	200.000	502.000	205.000	495.400	210.000
GR	495.400	220.000	502.000	225.000	510.000	230.000	512.000	237.000	515.000	242.000
GR	512.000	247.000	510.000	250.000	470.000	290.000	468.000	295.000	467.700	305.000
GR	467.700	735.000	468.000	740.000	470.000	745.000	500.000	775.000	508.000	825.000

MOORE BUSINESS FORMS

GR	520.000	865.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.060	0.180	0.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	1560.000	21.000	170.000	210.000	580.000	580.000	580.000	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	520.000	100.000	518.000	125.000	516.000	140.000	510.000	170.000	506.000	175.000
GR	498.000	180.000	498.000	190.000	506.000	195.000	514.000	200.000	519.000	210.000
GR	514.000	215.000	510.000	230.000	500.000	245.000	470.000	265.000	468.000	270.000
GR	467.700	275.000	467.700	630.000	468.000	635.000	470.000	640.000	500.000	670.000
GR	520.000	725.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1010.000	1840.000	2330.000	3880.000	2330.000	0.0	0.0	0.0	0.0
NC	0.0	0.0	0.0	0.300	0.500	0.0	0.0	0.0	0.0	0.0
NH	4.000	0.060	190.100	0.070	220.000	0.070	510.000	10.000	820.000	0.0

X1	1690.000	26.000	190.100	220.000	130.000	130.000	130.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	510.000	510.000	0.0
GR	520.000	100.000	518.000	125.000	516.000	160.000	512.000	180.000	511.000	190.000
GR	509.200	190.100	509.200	191.500	507.900	194.000	500.000	199.000	498.300	204.000
GR	499.300	210.000	507.800	218.000	507.900	219.000	509.100	219.100	509.100	220.000
GR	510.800	220.100	512.000	222.000	520.000	232.000	520.000	282.000	514.000	302.000
GR	514.390	330.000	515.160	510.000	516.000	705.000	516.000	735.000	518.000	770.000
GR	520.000	820.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	1.250	1.560	3.000	0.0	9.000	0.001	185.700	0.920	499.000	499.000

X1	1710.000	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	509.150	510.800	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	510.800	510.800	0.0
BT	18.000	100.000	520.000	0.0	125.000	518.000	0.0	160.000	516.000	0.0
BT	180.000	512.000	0.0	190.000	511.000	0.0	190.100	511.900	509.200	220.000
BT	511.700	509.100	220.100	510.800	0.0	222.000	512.000	0.0	232.000	520.000
BT	0.0	282.000	520.000	0.0	302.000	514.000	0.0	330.000	514.390	0.0
BT	510.000	515.160	0.0	705.000	516.000	0.0	735.000	516.000	0.0	770.000
BT	518.000	0.0	820.000	520.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.050	0.070	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	1940.000	17.000	220.000	345.000	230.000	230.000	230.000	0.0	0.0	0.0
GR	530.000	100.000	524.000	145.000	520.000	170.000	516.000	180.000	514.000	185.000
GR	510.000	205.000	504.200	220.000	500.100	220.100	497.100	245.000	496.000	255.000
GR	495.300	305.000	497.800	335.000	500.200	344.900	504.200	345.000	510.000	390.000
GR	514.000	410.000	530.000	515.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.180	0.180	0.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	2290.000	19.000	445.000	485.000	350.000	350.000	350.000	0.0	0.0	0.0
GR	530.000	100.000	528.000	120.000	524.000	195.000	522.000	230.000	516.000	315.000
GR	514.000	335.000	512.000	370.000	510.000	390.000	508.000	430.000	506.000	445.000
GR	499.200	460.000	499.200	470.000	505.000	485.000	506.000	605.000	508.000	620.000
GR	510.000	630.000	516.000	645.000	520.000	670.000	530.000	700.000	0.0	0.0

X1	2820.000	16.000	310.000	340.000	530.000	530.000	530.000	0.0	0.0	0.0
GR	530.000	100.000	528.000	110.000	526.000	115.000	522.000	145.000	520.000	165.000
GR	518.000	180.000	516.000	205.000	512.000	235.000	508.000	310.000	501.400	320.000
GR	501.400	330.000	508.000	340.000	510.000	341.000	520.000	355.000	526.000	375.000
GR	530.000	400.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	3150.000	12.000	132.000	162.000	330.000	330.000	330.000	0.0	0.0	0.0
GR	530.000	70.000	520.000	110.000	518.000	118.000	516.000	122.000	514.000	132.000
GR	508.180	142.000	508.180	152.000	514.000	162.000	516.000	182.000	518.000	220.000
GR	520.000	240.000	526.000	285.000	0.0	0.0	0.0	0.0	0.0	0.0

MOORE BUSINESS FORMS, INC. PRINTED IN USA

X1	3360.000	17.000	275.000	305.000	210.000	210.000	210.000	0.0	0.0	0.0
GR	540.000	100.000	536.000	145.000	534.000	160.000	530.000	210.000	518.000	275.000
GR	512.500	280.000	512.500	290.000	518.000	305.000	520.000	330.000	522.000	345.000
GR	524.000	355.000	526.000	375.000	530.000	395.000	534.000	420.000	536.000	435.000
GR	538.000	460.000	540.000	475.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.050	0.120	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	3935.000	15.000	275.000	310.000	575.000	575.000	575.000	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	550.000	100.000	544.000	165.000	542.000	180.000	538.000	225.000	536.000	245.000
GR	530.000	275.000	523.900	282.000	523.900	289.000	530.000	300.000	542.000	310.000
GR	530.000	320.000	528.000	325.000	528.000	525.000	530.000	535.000	550.000	555.000
NC	0.050	0.050	0.100	0.300	0.500	0.0	0.0	0.0	0.0	0.0

X1	4260.000	19.000	339.100	356.000	325.000	325.000	325.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	538.500	538.500	0.0
GR	556.500	100.000	554.800	160.000	550.500	200.000	540.800	287.000	540.300	300.000
GR	539.080	339.000	537.500	339.100	537.500	340.000	533.380	340.100	533.780	347.000
GR	534.380	354.000	537.500	354.100	537.500	356.000	539.080	356.100	539.200	370.000
GR	547.000	385.000	547.000	570.000	549.500	600.000	555.500	700.000	0.0	0.0
SB	1.250	1.560	2.600	0.0	14.000	0.001	51.380	0.0	533.830	533.830

X1	4280.000	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	537.500	539.030	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	539.080	539.080	0.0
BT	14.000	100.000	556.500	0.0	160.000	554.800	0.0	200.000	550.500	0.0
BT	287.000	540.800	0.0	300.000	540.300	0.0	339.000	539.080	0.0	339.100
BT	539.380	537.500	356.000	539.880	537.500	356.100	539.080	0.0	370.000	539.200
BT	0.0	385.000	547.000	0.0	570.000	547.000	0.0	600.000	549.500	0.0
BT	700.000	555.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	4400.000	28.000	712.000	728.000	120.000	120.000	120.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	539.300	539.300	0.0
GR	560.000	100.000	556.000	330.000	554.000	410.000	552.000	475.000	550.000	515.000
GR	548.000	540.000	546.000	580.000	544.000	620.000	542.000	635.000	540.000	660.000
GR	540.000	711.900	538.500	712.000	538.500	713.000	535.200	714.000	535.000	720.000
GR	535.000	726.000	538.500	726.100	538.500	728.000	540.000	728.100	540.000	805.000
GR	542.000	820.000	544.000	845.000	546.000	875.000	552.000	935.000	554.000	1050.000
GK	556.000	1065.000	558.000	105.000	560.000	1130.000	0.0	0.0	0.0	0.0
SB	1.250	1.560	2.700	0.0	11.500	0.001	43.100	0.230	535.000	535.000

X1	4440.000	0.0	0.0	0.0	40.000	40.000	40.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	538.500	540.000	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	540.000	540.000	0.0
BT	15.000	515.000	550.000	0.0	540.000	548.000	0.0	580.000	546.000	0.0
BT	620.000	544.000	0.0	635.000	542.000	0.0	660.000	540.000	0.0	711.900
BT	540.000	0.0	712.000	540.700	538.500	728.000	540.700	538.500	728.100	540.000
BT	0.0	805.000	540.000	0.0	820.000	542.000	0.0	845.000	544.000	0.0
BT	875.000	546.000	0.0	935.000	552.000	0.0	0.0	0.0	0.0	0.0

X1	4530.000	29.000	750.000	769.700	90.000	90.000	90.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	539.000	539.000	0.0
GR	560.000	100.000	558.000	210.000	556.000	330.000	554.000	410.000	552.000	475.000
GR	550.000	515.000	548.000	540.000	546.000	580.000	544.000	640.000	542.000	720.000
GR	541.100	749.900	538.600	750.000	538.600	751.000	536.000	752.000	535.800	760.000
GR	535.700	767.500	538.600	768.700	538.600	769.700	540.900	769.800	542.000	915.000
GR	544.000	995.000	546.000	1070.000	548.000	1110.000	550.000	1140.000	552.000	1280.000
GR	554.000	1295.000	556.000	1325.000	558.000	1400.000	560.000	1450.000	0.0	0.0
SB	1.250	1.560	2.700	0.0	15.000	0.001	46.020	0.520	535.800	535.800

MOORE BUSINESS FORMS

X1	3360.000	17.000	275.000	305.000	210.000	210.000	210.000	0.0	0.0	0.0
GR	540.000	100.000	536.000	145.000	534.000	160.000	530.000	210.000	518.000	275.000
GR	512.500	280.000	512.500	290.000	518.000	305.000	520.000	330.000	522.000	345.000
GR	524.000	355.000	526.000	375.000	530.000	395.000	534.000	420.000	536.000	435.000
GR	538.000	460.000	540.000	475.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.050	0.120	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	3935.000	15.000	275.000	310.000	575.000	575.000	575.000	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	550.000	100.000	544.000	165.000	542.000	180.000	538.000	225.000	536.000	245.000
GR	530.000	275.000	523.900	282.000	523.900	289.000	530.000	300.000	542.000	310.000
GR	530.000	320.000	528.000	325.000	528.000	525.000	530.000	535.000	550.000	555.000
NC	0.050	0.050	0.100	0.300	0.500	0.0	0.0	0.0	0.0	0.0

X1	4260.000	19.000	339.100	356.000	325.000	325.000	325.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	538.500	538.500	0.0
GR	556.500	100.000	554.800	160.000	550.500	200.000	540.800	287.000	540.300	300.000
GR	539.080	339.000	537.500	339.100	537.500	340.000	533.380	340.100	533.780	347.000
GR	534.380	354.000	537.500	354.100	537.500	356.000	539.080	356.100	539.200	370.000
GR	547.000	385.000	547.000	570.000	549.500	600.000	555.500	700.000	0.0	0.0
SB	1.250	1.560	2.600	0.0	14.000	0.001	51.380	0.0	533.830	533.830

X1	4280.000	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	537.500	539.030	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	539.080	539.080	0.0
BT	14.000	100.000	556.500	0.0	160.000	554.800	0.0	200.000	550.500	0.0
BT	287.000	540.800	0.0	300.000	540.300	0.0	339.000	539.080	0.0	339.100
BT	539.380	537.500	356.000	539.880	537.500	356.100	539.080	0.0	370.000	539.200
BT	0.0	385.000	547.000	0.0	570.000	547.000	0.0	600.000	549.500	0.0
BT	700.000	555.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	4400.000	28.000	712.000	728.000	120.000	120.000	120.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	539.300	539.300	0.0
GR	560.000	100.000	556.000	330.000	554.000	410.000	552.000	475.000	550.000	515.000
GR	548.000	540.000	546.000	580.000	544.000	620.000	542.000	635.000	540.000	660.000
GR	540.000	711.900	538.500	712.000	538.500	713.000	535.200	714.000	535.000	720.000
GR	535.000	726.000	538.500	726.100	538.500	728.000	540.000	728.100	540.000	805.000
GR	542.000	820.000	544.000	845.000	546.000	875.000	552.000	935.000	554.000	1050.000
GR	556.000	1065.000	558.000	1105.000	560.000	1130.000	0.0	0.0	0.0	0.0
SB	1.250	1.560	2.700	0.0	11.500	0.001	43.100	0.230	535.000	535.000

X1	4440.000	0.0	0.0	0.0	40.000	40.000	40.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	538.500	540.000	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	540.000	540.000	0.0
BT	15.000	515.000	550.000	0.0	540.000	548.000	0.0	580.000	546.000	0.0
BT	620.000	544.000	0.0	635.000	542.000	0.0	660.000	540.000	0.0	711.900
BT	540.000	0.0	712.000	540.700	538.500	728.000	540.700	538.500	728.100	540.000
BT	0.0	805.000	540.000	0.0	820.000	542.000	0.0	845.000	544.000	0.0
BT	875.000	546.000	0.0	935.000	552.000	0.0	0.0	0.0	0.0	0.0

X1	4530.000	29.000	750.000	769.700	90.000	90.000	90.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	539.000	539.000	0.0
GR	560.000	100.000	558.000	210.000	556.000	330.000	554.000	410.000	552.000	475.000
GR	550.000	515.000	548.000	540.000	546.000	580.000	544.000	640.000	542.000	720.000
GR	541.100	749.900	538.600	750.000	538.600	751.000	536.000	752.000	535.800	760.000
GR	535.700	767.500	538.600	768.700	538.600	769.700	540.900	769.800	542.000	915.000
GR	544.000	995.000	546.000	1070.000	548.000	1110.000	550.000	1140.000	552.000	1280.000
GR	554.000	1295.000	556.000	1325.000	558.000	1400.000	560.000	1450.000	0.0	0.0
SB	1.250	1.560	2.700	0.0	15.000	0.001	46.020	0.520	535.800	535.800

PRINTED IN USA
MOORE BUSINESS FORMS

X1	4570.000	0.0	0.0	0.0	40.000	40.000	40.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	538.600	540.900	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	540.900	540.900	0.0
BT	14.000	515.000	550.000	0.0	540.000	548.000	0.0	580.000	546.000	0.0
BT	640.000	544.000	0.0	720.000	542.000	0.0	749.900	541.100	0.0	750.000
BT	541.100	538.600	769.700	540.900	538.600	769.800	540.900	0.0	915.000	542.000
BT	0.0	995.000	544.000	0.0	1070.000	546.000	0.0	1110.000	548.000	0.0
BT	1140.000	550.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.0	0.0	0.0	0.100	0.300	0.0	0.0	0.0	0.0	0.0
NH	4.000	10.000	405.000	0.090	515.000	0.050	540.000	0.040	860.000	0.0

X1	4895.000	20.000	515.000	540.000	325.000	325.000	325.000	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	560.000	100.000	558.000	130.000	550.000	210.000	548.000	235.000	546.000	245.000
GR	542.000	255.000	542.000	395.000	544.000	405.000	544.000	415.000	542.000	515.000
GR	540.000	520.000	537.000	528.000	537.000	534.000	540.000	540.000	542.000	555.000
GR	544.000	575.000	546.000	590.000	548.000	700.000	550.000	835.000	560.000	860.000
NH	4.000	10.000	400.000	0.090	525.000	0.070	545.000	0.090	790.000	0.0

X1	5020.000	13.000	525.000	545.000	125.000	125.000	125.000	0.0	0.0	0.0
GR	560.000	100.000	550.000	200.000	548.670	400.000	548.000	500.000	546.000	520.000
GR	545.000	525.000	541.000	532.000	541.000	538.000	545.000	545.000	546.000	550.000
GR	548.000	570.000	550.000	700.000	560.000	790.000	0.0	0.0	0.0	0.0
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

THIS RUN EXECUTED 02/19/81 14:30:56

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53

T1 CITY OF MONROE, NC
 T2 50 YEAR FLOOD
 T3 QUARRY TRIBUTARY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	3.	0.	0.	0.040000	0.0	0.0	0.	478.380	0.0

J2	NPROF	IPLDT	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

THIS RUN EXECUTED 02/19/81 14:30:59

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CURR - 01,02,03
 MODIFICATION - 50,51,52,53

MOORE BUSINESS FORMS INC. 7 27

CITY OF MONROE, NC
 100 YEAR FLOOD
 QUARRY TRIBUTARY

J1 ICHECK INQ NINV IDIR SIRT METRIC HVINS Q WSEL FQ
 0. 4. 0. 0. 0.040000 0.0 0.0 0. 478.890 0.0

J2 NPROF IPLDT PRFVS 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

THIS RUN EXECUTED 02/19/81 14:31:02

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53

T1 CITY OF MONROE, NC
 T2 500 YEAR FLOOD
 T3 QUARRY TRIBUTARY

J1 ICHECK INQ NINV IDIR SIRT METRIC HVINS Q WSEL FQ
 0. 5. 0. 0. 0.040000 0.0 0.0 0. 479.320 0.0

J2 NPROF IPLDT 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

THIS RUN EXECUTED 02/19/81 14:31:06

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

QUARRY TRIBUTARY

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
300.000	0.0	0.0	0.0	470.00	1010.00	475.63	0.0	477.19	403.31	10.04	100.64	50.29
300.000	0.0	0.0	0.0	470.00	1827.00	478.38	0.0	480.11	403.64	10.54	173.30	90.94
300.000	0.0	0.0	0.0	470.00	2043.00	478.89	0.0	480.65	396.48	10.65	191.90	102.60
300.000	0.0	0.0	0.0	470.00	2287.00	479.32	0.0	481.18	405.02	10.95	208.84	113.64
* 500.000	200.00	0.0	0.0	486.40	1010.00	491.27	491.27	493.62	718.51	12.29	82.19	37.68

MOORE BUSINESS FORMS

CITY OF MONROE, NC
 100 YEAR FLOOD
 QUARRY TRIBUTARY

J1 ICHECK INQ NINV IDIR SIRT METRIC HVINS Q WSEL FQ
 0. 4. 0. 0. 0.040000 0.0 0.0 0. 478.890 0.0

J2 NPROF IPLDT PRFVS 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

THIS RUN EXECUTED 02/19/81 14:31:02

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53

T1 CITY OF MONROE, NC
 T2 500 YEAR FLOOD
 T3 QUARRY TRIBUTARY

J1 ICHECK INQ NINV IDIR SIRT METRIC HVINS Q WSEL FQ
 0. 5. 0. 0. 0.040000 0.0 0.0 0. 479.320 0.0

J2 NPROF IPLDT 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

THIS RUN EXECUTED 02/19/81 14:31:06

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

QUARRY TRIBUTARY

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
300.000	0.0	0.0	0.0	470.00	1010.00	475.63	0.0	477.19	403.31	10.04	100.64	50.29
300.000	0.0	0.0	0.0	470.00	1827.00	478.38	0.0	480.11	403.64	10.54	173.30	90.94
300.000	0.0	0.0	0.0	470.00	2043.00	478.89	0.0	480.65	396.48	10.65	191.90	102.60
300.000	0.0	0.0	0.0	470.00	2287.00	479.32	0.0	481.18	405.02	10.95	208.84	113.64
* 500.000	200.00	0.0	0.0	486.40	1010.00	491.27	491.27	493.62	718.51	12.29	82.19	37.68

MOORE BUSINESS FORMS PRINTED IN USA

SECNO	XLCH	ELTRD	FULLC	ELMIN	Q	CWSEL	CRIMS	EG	10K*S	VCH	AREA	.01K
500.000	200.00	0.0	0.0	486.40	2043.00	494.42	494.42	497.43	669.44	13.92	146.77	78.96
500.000	200.00	0.0	0.0	486.40	2287.00	495.00	495.00	498.11	657.35	14.15	161.61	89.20
600.000	100.00	0.0	0.0	491.80	1010.00	497.58	0.0	499.21	437.83	10.26	98.43	48.27
600.000	100.00	0.0	0.0	491.80	1827.00	500.23	0.0	502.33	450.19	11.62	157.18	86.11
600.000	100.00	0.0	0.0	491.80	2043.00	500.75	0.0	502.97	454.15	11.95	171.03	95.87
600.000	100.00	0.0	0.0	491.80	2287.00	501.29	0.0	503.63	458.22	12.29	186.15	106.84
980.000	380.00	0.0	0.0	495.40	1010.00	505.28	0.0	505.82	90.40	5.90	171.25	106.23
980.000	380.00	0.0	0.0	495.40	1827.00	508.63	0.0	509.40	98.28	7.06	258.94	184.29
980.000	380.00	0.0	0.0	495.40	2043.00	509.34	0.0	510.17	100.44	7.31	279.44	203.85
980.000	380.00	0.0	0.0	495.40	2287.00	510.09	0.0	510.98	103.06	7.58	301.79	225.28
1560.000	580.00	0.0	0.0	498.00	1010.00	510.01	0.0	510.35	67.75	4.69	215.15	122.70
1560.000	580.00	0.0	0.0	467.70	1827.00	513.52	0.0	513.97	63.83	5.51	346.60	228.67
1560.000	580.00	0.0	0.0	467.70	2043.00	514.27	0.0	514.73	62.44	5.61	383.94	258.54
1560.000	580.00	0.0	0.0	467.70	2287.00	515.08	0.0	515.54	60.95	5.66	427.91	292.94
1690.000	130.00	0.0	0.0	498.30	1010.00	510.73	0.0	511.03	39.33	4.33	233.26	161.05
1690.000	130.00	0.0	0.0	498.30	1840.00	514.19	0.0	514.58	34.04	5.15	385.69	315.38
1690.000	130.00	0.0	0.0	498.30	2330.00	514.90	0.0	515.39	40.89	5.88	476.64	364.38
1690.000	130.00	0.0	0.0	498.30	3880.00	515.76	0.0	516.57	68.84	7.99	748.46	467.65
1710.000	20.00	510.80	509.15	498.30	1010.00	511.18	0.0	511.44	32.65	4.10	246.99	176.75
1710.000	20.00	510.80	509.15	498.30	1840.00	514.55	0.0	514.90	29.64	4.91	418.41	337.97
1710.000	20.00	510.80	509.15	498.30	2330.00	515.08	0.0	515.53	37.33	5.67	519.73	381.33
1710.000	20.00	510.80	509.15	498.30	3880.00	515.76	0.0	516.57	68.68	7.98	749.98	468.19
1940.000	230.00	0.0	0.0	495.30	1010.00	511.47	0.0	511.47	0.06	0.53	2106.23	4068.25
1940.000	230.00	0.0	0.0	495.30	1840.00	514.94	0.0	514.95	0.09	0.75	2858.73	6050.13
1940.000	230.00	0.0	0.0	495.30	2330.00	515.58	0.0	515.59	0.13	0.91	3009.83	6465.32
1940.000	230.00	0.0	0.0	495.30	3880.00	516.64	0.0	516.67	0.29	1.41	3270.58	7193.59
2290.000	350.00	0.0	0.0	499.20	1010.00	511.46	0.0	511.48	3.15	1.46	1381.97	568.90
2290.000	350.00	0.0	0.0	499.20	1840.00	514.94	0.0	514.96	2.60	1.62	2383.71	1142.11
2290.000	350.00	0.0	0.0	499.20	2330.00	515.58	0.0	515.61	3.36	1.90	2589.08	1271.84
2290.000	350.00	0.0	0.0	499.20	3880.00	516.65	0.0	516.71	6.63	2.80	2946.44	1506.83
2820.000	530.00	0.0	0.0	501.40	1010.00	511.72	0.0	511.92	29.90	3.78	377.75	184.71
2820.000	530.00	0.0	0.0	501.40	1840.00	515.12	0.0	515.31	20.84	3.98	790.63	403.08
2820.000	530.00	0.0	0.0	501.40	2330.00	515.81	0.0	516.05	25.67	4.59	887.05	459.91
2820.000	530.00	0.0	0.0	501.40	3880.00	517.10	0.0	517.56	44.85	6.49	1081.90	579.35
3150.000	330.00	0.0	0.0	508.18	1010.00	513.39	0.0	515.01	637.32	10.22	98.84	40.01
3150.000	330.00	0.0	0.0	508.18	1840.00	515.87	0.0	517.53	350.78	10.45	198.62	98.24
3150.000	330.00	0.0	0.0	508.18	2330.00	516.78	0.0	518.58	323.35	11.06	259.42	129.57
3150.000	330.00	0.0	0.0	508.18	3880.00	519.01	0.0	521.02	271.55	12.30	478.97	235.45
3360.000	210.00	0.0	0.0	512.50	1010.00	519.74	0.0	520.30	130.09	6.08	189.59	88.55
3360.000	210.00	0.0	0.0	512.50	1840.00	521.40	0.0	522.30	154.57	7.92	310.74	148.00
3360.000	210.00	0.0	0.0	512.50	2330.00	522.24	0.0	523.26	157.65	8.61	385.38	185.57
3360.000	210.00	0.0	0.0	512.50	3880.00	524.20	0.0	525.57	172.82	10.45	590.01	295.14
3935.000	575.00	0.0	0.0	523.90	1010.00	531.31	0.0	532.15	370.03	7.55	135.64	52.51
3935.000	575.00	0.0	0.0	523.90	1840.00	533.53	0.0	534.60	312.34	8.39	222.30	104.11
3935.000	575.00	0.0	0.0	523.90	2330.00	534.41	0.0	535.61	306.70	8.82	264.71	133.04
3935.000	575.00	0.0	0.0	523.90	3880.00	536.55	0.0	538.14	281.67	9.53	386.97	231.19
4260.000	325.00	0.0	0.0	533.38	1010.00	540.82	0.0	541.32	215.66	5.94	181.95	68.78
4260.000	325.00	0.0	0.0	533.38	1840.00	541.90	0.0	542.58	192.78	6.23	281.51	132.52
4260.000	325.00	0.0	0.0	533.38	2330.00	542.44	0.0	543.21	178.49	6.28	335.60	174.40

4280.000	20.00	539.03	537.50	533.38	1010.00	541.58	0.0	541.83	83.46	3.98	250.42	110.56
4280.000	20.00	539.03	537.50	533.38	1840.00	542.83	0.0	543.21	77.05	4.26	377.48	209.62
4280.000	20.00	539.03	537.50	533.38	2330.00	543.42	0.0	543.87	74.79	4.39	443.50	269.43
4280.000	20.00	539.03	537.50	533.38	3880.00	545.01	0.0	545.62	67.63	4.66	639.01	471.81
4400.000	120.00	0.0	0.0	535.00	1010.00	542.28	0.0	542.36	22.55	1.99	449.95	212.71
4400.000	120.00	0.0	0.0	535.00	1840.00	543.57	0.0	543.68	17.36	1.97	712.47	441.56
4400.000	120.00	0.0	0.0	535.00	2330.00	544.20	0.0	544.32	15.95	1.99	852.32	583.37
4400.000	120.00	0.0	0.0	535.00	3880.00	545.91	0.0	546.06	12.70	2.01	1301.64	1088.58
4440.000	40.00	540.00	538.50	535.00	1010.00	542.38	0.0	542.46	19.65	1.88	469.57	227.87
4440.000	40.00	540.00	538.50	535.00	1840.00	543.71	0.0	543.81	15.21	1.87	743.48	471.86
4440.000	40.00	540.00	538.50	535.00	2330.00	544.37	0.0	544.48	13.87	1.88	892.09	625.64
4440.000	40.00	540.00	538.50	535.00	3880.00	546.11	0.0	546.25	11.17	1.91	1361.45	1160.93
4530.000	90.00	0.0	0.0	535.70	1010.00	542.64	0.0	542.78	63.11	3.62	347.36	127.14
4530.000	90.00	0.0	0.0	535.70	1840.00	543.89	0.0	544.00	28.28	2.73	718.90	345.98
4530.000	90.00	0.0	0.0	535.70	2330.00	544.54	0.0	544.63	19.77	2.41	956.63	523.97
4530.000	90.00	0.0	0.0	535.70	3880.00	546.28	0.0	546.36	9.81	1.93	1739.11	1238.98
4570.000	40.00	540.90	538.60	535.70	1010.00	542.81	0.0	542.92	45.61	3.13	391.71	149.56
4570.000	40.00	540.90	538.60	535.70	1840.00	544.01	0.0	544.10	24.14	2.55	760.91	374.52
4570.000	40.00	540.90	538.60	535.70	2330.00	544.66	0.0	544.75	17.04	2.26	1006.70	564.37
4570.000	40.00	540.90	538.60	535.70	3880.00	546.42	0.0	546.49	8.70	1.83	1811.65	1315.37

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
4895.000	325.00	0.0	0.0	537.00	1010.00	543.95	0.0	544.28	34.78	5.11	576.62	171.26
4895.000	325.00	0.0	0.0	537.00	1840.00	544.80	0.0	545.30	47.90	6.63	858.83	265.85
4895.000	325.00	0.0	0.0	537.00	2330.00	545.22	0.0	545.79	52.41	7.25	999.25	321.84
4895.000	325.00	0.0	0.0	537.00	3880.00	546.60	0.0	547.22	49.53	8.00	1482.77	551.33
* 5020.000	125.00	0.0	0.0	541.00	1010.00	547.01	547.01	548.48	338.50	10.11	117.31	54.90
* 5020.000	125.00	0.0	0.0	541.00	1840.00	549.03	549.03	549.94	172.76	9.20	361.66	139.99
* 5020.000	125.00	0.0	0.0	541.00	2330.00	549.37	549.37	550.34	188.86	9.95	474.15	169.54
* 5020.000	125.00	0.0	0.0	541.00	3880.00	550.28	550.28	551.21	196.41	11.02	889.03	276.85

QUARRY TRIBUTARY

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DTFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
300.000	1010.00	475.63	0.0	0.0	0.0	19.75	0.0
300.000	1827.00	478.38	2.75	0.0	0.0	34.87	0.0
300.000	2043.00	478.89	0.51	0.0	0.0	38.06	0.0
300.000	2287.00	479.32	0.43	0.0	0.0	40.75	0.0
* 500.000	1010.00	491.27	0.0	15.64	0.0	17.74	200.00
* 500.000	1827.00	493.86	2.59	15.48	0.0	23.11	200.00
* 500.000	2043.00	494.42	0.56	15.53	0.0	24.65	200.00
* 500.000	2287.00	495.00	0.58	15.68	0.0	26.25	200.00
600.000	1010.00	497.58	0.0	6.30	0.0	18.49	100.00
600.000	1827.00	500.23	2.65	6.37	0.0	25.78	100.00
600.000	2043.00	500.75	0.52	6.33	0.0	27.22	100.00
600.000	2287.00	501.29	0.53	6.29	0.0	28.71	100.00
980.000	1010.00	505.28	0.0	7.70	0.0	24.10	380.00

MOORE PIGALLE'S FORMS

980.000	1827.00	508.63	3.35	8.40	0.0	28.28	380.00
980.000	2043.00	509.34	0.71	8.59	0.0	29.17	380.00
980.000	2287.00	510.09	0.75	8.80	0.0	30.78	380.00

1560.000	1010.00	510.01	0.0	4.73	0.0	27.53	580.00
1560.000	1827.00	513.52	3.51	4.89	0.0	47.29	580.00
1560.000	2043.00	514.27	0.75	4.93	0.0	51.91	580.00
1560.000	2287.00	515.08	0.81	4.99	0.0	57.54	580.00

1690.000	1010.00	510.73	0.0	0.72	0.0	30.08	130.00
1690.000	1840.00	514.19	3.45	0.67	0.0	69.82	130.00
1690.000	2330.00	514.90	0.71	0.63	0.0	209.86	130.00
1690.000	3880.00	515.76	0.86	0.68	0.0	419.07	130.00

1710.000	1010.00	511.18	0.0	0.45	0.0	32.52	20.00
1710.000	1840.00	514.55	3.37	0.36	0.0	125.31	20.00
1710.000	2330.00	515.08	0.53	0.19	0.0	254.98	20.00
1710.000	3880.00	515.76	0.68	0.00	0.0	419.95	20.00

1940.000	1010.00	511.47	0.0	0.29	0.0	199.68	230.00
1940.000	1840.00	514.94	3.47	0.39	0.0	233.49	230.00
1940.000	2330.00	515.58	0.64	0.50	0.0	239.29	230.00
1940.000	3880.00	516.64	1.07	0.88	0.0	248.97	230.00

2290.000	1010.00	511.46	0.0	-0.00	0.0	258.29	350.00
2290.000	1840.00	514.94	3.47	-0.00	0.0	316.71	350.00
2290.000	2330.00	515.58	0.64	0.00	0.0	324.71	350.00
2290.000	3880.00	516.65	1.07	0.00	0.0	343.28	350.00

2820.000	1010.00	511.72	0.0	0.25	0.0	103.08	530.00
2820.000	1840.00	515.12	3.40	0.18	0.0	136.57	530.00
2820.000	2330.00	515.81	0.69	0.23	0.0	142.72	530.00
2820.000	3880.00	517.10	1.29	0.45	0.0	159.73	530.00

3150.000	1010.00	513.39	0.0	1.67	0.0	27.92	330.00
3150.000	1840.00	515.87	2.48	0.75	0.0	58.02	330.00
3150.000	2330.00	516.78	0.91	0.97	0.0	76.33	330.00
3150.000	3880.00	519.01	2.24	1.91	0.0	116.19	330.00

SECNO	Q	CWSEL	DIFWSP	DIFW5X	DIFKWS	TOPWID	XLCH
3360.000	1010.00	519.74	0.0	6.35	0.0	61.25	210.00
3360.000	1840.00	521.40	1.66	5.54	0.0	83.93	210.00
3360.000	2330.00	522.24	0.83	5.46	0.0	94.14	210.00
3360.000	3880.00	524.20	1.96	5.18	0.0	115.54	210.00

3935.000	1010.00	531.31	0.0	11.57	0.0	32.69	575.00
3935.000	1840.00	533.53	2.22	12.13	0.0	45.60	575.00
3935.000	2330.00	534.41	0.88	12.17	0.0	50.74	575.00
3935.000	3880.00	536.55	2.14	12.35	0.0	65.91	575.00

4260.000	1010.00	540.82	0.0	9.51	0.0	86.36	325.00
4260.000	1840.00	541.90	1.08	8.37	0.0	98.12	325.00
4260.000	2330.00	542.44	0.54	8.03	0.0	103.95	325.00
4260.000	3880.00	543.83	1.39	7.29	0.0	119.16	325.00

4280.000	1010.00	541.58	0.0	0.76	0.0	94.60	20.00
* 4280.000	1840.00	542.83	1.25	0.93	0.0	108.25	20.00
4280.000	2330.00	543.42	0.59	0.98	0.0	114.70	20.00
4280.000	3880.00	545.01	1.59	1.18	0.0	131.96	20.00

4400.000	1010.00	542.28	0.0	0.70	0.0	190.60	120.00
4400.000	1840.00	543.57	1.29	0.74	0.0	216.40	120.00
4400.000	2330.00	544.20	0.63	0.78	0.0	231.89	120.00

MOORE BUSINESS FORMS, INC. PRINTED IN U.S.A.

4400.000	3880.00	545.91	1.71	0.90	0.0	291.93	120.00
4440.000	1010.00	542.38	0.0	0.11	0.0	192.65	40.00
4440.000	1840.00	543.71	1.33	0.14	0.0	219.25	40.00
4440.000	2330.00	544.37	0.65	0.16	0.0	237.81	40.00
4440.000	3880.00	546.11	1.75	0.20	0.0	298.45	40.00
4530.000	1010.00	542.64	0.0	0.26	0.0	246.00	90.00
4530.000	1840.00	543.89	1.25	0.18	0.0	346.36	90.00
4530.000	2330.00	544.54	0.64	0.17	0.0	391.16	90.00
4530.000	3880.00	546.28	1.74	0.16	0.0	501.08	90.00
4570.000	1010.00	542.81	0.0	0.17	0.0	260.03	40.00
4570.000	1840.00	544.01	1.20	0.12	0.0	355.78	40.00
4570.000	2330.00	544.66	0.65	0.13	0.0	399.70	40.00
4570.000	3880.00	546.42	1.76	0.14	0.0	506.84	40.00
4895.000	1010.00	543.95	0.0	1.14	0.0	311.25	325.00
4895.000	1840.00	544.80	0.85	0.79	0.0	333.05	325.00
4895.000	2330.00	545.22	0.42	0.56	0.0	337.24	325.00
4895.000	3880.00	546.60	1.38	0.18	0.0	381.15	325.00
* 5020.000	1010.00	547.01	0.0	3.06	0.0	50.12	125.00
* 5020.000	1840.00	549.03	2.02	4.22	0.0	290.23	125.00
* 5020.000	2330.00	549.37	0.34	4.15	0.0	364.26	125.00
* 5020.000	3880.00	550.28	0.91	3.68	0.0	505.39	125.00

SUMMARY OF ERRORS

- CAUTION SECNO= 500.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 500.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 500.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 500.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 500.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 500.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 500.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 500.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 500.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 500.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

- CAUTION SECNO= 4280.000 PROFILE= 2 HYDRAULIC JUMP D.S.

- CAUTION SECNO= 5020.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 5020.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 5020.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 5020.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 5020.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 5020.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 5020.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 5020.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 5020.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 5020.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 5020.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 5020.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOOD INSURANCE ZONE DATA FOR QUARRY TRIBUTARY

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

PRINTED BY USA MOOSE ENGINEERING

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CORR = 01,02,03
 MODIFICATION = 50,51,52,53

RICHARDSON CREEK TRIBUTARY

T1 CITY OF MONROE, NC
 T2 100 YEAR NATURAL PROFILE
 T3 QUARRY TRIBUTARY

FLOODWAY

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION BETWEEN BASE FLOOD AND 10'	DIFFERENCE 2'	DIFFERENCE 0.2'	WSEL	FO
300.000	0.	-3.26	-0.51	0.43	478.890	0.0
500.000	200.	-3.15	-0.56	0.58		
600.000	300.	-3.18	-0.52	0.53		
980.000	680.	-4.06	-0.71	0.75		
1560.000	1260.	-4.26	-0.75	0.81		
1690.000	1390.	-4.16	-0.71	0.86		
1710.000	1410.	-3.90	-0.53	0.68		
1940.000	1640.	-4.11	-0.64	1.07		
2290.000	1990.	-4.11	-0.64	1.07		
2820.000	2520.	-4.09	-0.69	1.29		
3150.000	2850.	-3.39	-0.91	2.24		
3360.000	3060.	-2.50	-0.83	1.96		
3935.000	3635.	-3.09	-0.88	2.14		
4260.000	3960.	-1.62	-0.54	1.39		
4280.000	3980.	-1.84	-0.59	1.59		
4400.000	4100.	-1.93	-0.63	1.71		
4440.000	4140.	-1.98	-0.65	1.75		
4530.000	4230.	-1.90	-0.64	1.74		
4570.000	4270.	-1.85	-0.65	1.76		
4895.000	4595.	-1.27	-0.42	1.38		
5020.000	4720.	-2.36	-0.34	0.91		
WEIGHTED AVG FOR REACH		-3.28	-0.68	1.30		

FHF FOR THE REACH = 035 WITH 83.9% OF THE REACH WITHIN 1.0 FEET ZONE FOR THE REACH = A 7

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CORR = 01,02,03
 MODIFICATION = 50,51,52,53

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53

RICHARDSON CREEK TRIBUTARY

T1 CITY OF MONRDE, NC
 T2 100 YEAR NATURAL PROFILE
 T3 QUARRY TRIBUTARY

FLOODWAY

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	R	WSEL	FQ
	0.	4.	0.	0.	0.0	0.0	0.0	0.	478.890	0.0

J2	NPROF	IPLUT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNTM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	110.000	200.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

J5	LPRNT	NUMSEC	*****REQUESTED SECTION NUMBERS*****							
	-10.000	-10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ET	0.0	0.0	0.0	0.0	0.0	0.0	10.400	0.0	0.0	0.0	0.0
NC	0.180	0.180	0.070	0.100	0.300	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1010.000	1827.000	2043.000	2287.000	2043.000	0.0	0.0	0.0	0.0	0.0

X1	300.000	26.000	345.000	415.000	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	0.0
GR	500.000	100.000	490.000	115.000	488.000	150.000	486.000	210.000	484.000	315.000	
GR	482.000	345.000	480.000	355.000	476.000	360.000	470.000	362.000	470.000	378.000	
GR	476.000	380.000	482.000	410.000	484.000	415.000	484.000	445.000	482.000	490.000	
GR	480.000	500.000	480.000	535.000	482.000	560.000	486.000	580.000	488.000	685.000	
GR	490.000	715.000	492.000	755.000	494.000	835.000	496.000	875.000	498.000	935.000	
GR	500.000	965.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

X1	500.000	28.000	200.000	240.000	200.000	200.000	200.000	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	510.000	100.000	508.000	130.000	506.000	150.000	504.000	165.000	502.000	195.000	
GR	500.000	200.000	492.000	202.000	486.400	203.000	486.400	219.000	492.000	220.000	
GR	496.000	230.000	505.000	240.000	496.000	250.000	494.000	255.000	488.000	290.000	
GR	488.000	330.000	480.000	340.000	467.600	365.000	467.700	550.000	474.000	575.000	
GR	490.000	645.000	496.000	660.000	497.000	670.000	498.000	700.000	500.000	735.000	
GR	506.000	820.000	508.000	905.000	510.000	915.000	0.0	0.0	0.0	0.0	

X1	600.000	0.0	0.0	0.0	100.000	100.000	100.000	0.0	5.400	0.0	
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NC	0.120	0.120	0.070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

X1	980.000	21.000	200.000	242.000	380.000	380.000	380.000	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	520.000	100.000	514.000	180.000	510.000	200.000	502.000	205.000	495.400	210.000	
GR	495.400	220.000	502.000	225.000	510.000	230.000	512.000	237.000	515.000	242.000	
GR	512.000	247.000	510.000	250.000	470.000	290.000	468.000	295.000	467.700	305.000	
GR	467.700	735.000	468.000	740.000	470.000	745.000	500.000	775.000	508.000	825.000	

ACORE BUSINESS FORMS, INC. PRINTED IN USA

GR	520.000	885.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	14.400	0.0	0.0	0.0	0.0
NC	0.060	0.180	0.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	1560.000	21.000	170.000	210.000	580.000	580.000	580.000	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	520.000	100.000	518.000	125.000	516.000	140.000	510.000	170.000	506.000	175.000
GR	498.000	180.000	498.000	190.000	506.000	195.000	514.000	200.000	519.000	210.000
GR	514.000	215.000	510.000	230.000	500.000	245.000	470.000	265.000	468.000	270.000
GR	467.700	275.000	467.700	630.000	468.000	635.000	470.000	640.000	500.000	670.000
GR	520.000	725.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1010.000	1840.000	2330.000	3880.000	2330.000	0.0	0.0	0.0	0.0
NC	0.0	0.0	0.0	0.300	0.500	0.0	0.0	0.0	0.0	0.0
NH	4.000	0.060	190.100	0.070	220.000	0.070	510.000	10.000	820.000	0.0

X1	1690.000	26.000	190.100	220.000	130.000	130.000	130.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	510.000	510.000	0.0
GR	520.000	100.000	518.000	125.000	516.000	160.000	512.000	180.000	511.000	190.000
GR	509.200	190.100	509.200	191.500	507.900	194.000	500.000	199.000	498.300	204.000
GR	499.300	210.000	507.800	218.000	507.900	219.000	509.100	219.100	509.100	220.000
GR	510.800	220.100	512.000	222.000	520.000	232.000	520.000	282.000	514.000	302.000
GR	514.390	330.000	515.160	510.000	516.000	705.000	516.000	735.000	518.000	770.000
GR	520.000	820.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	1.250	1.560	3.000	0.0	9.000	0.001	185.700	0.920	499.000	499.000

X1	1710.000	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	509.150	510.800	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	510.800	510.800	0.0
BT	18.000	100.000	520.000	0.0	125.000	518.000	0.0	160.000	516.000	0.0
BT	180.000	512.000	0.0	190.000	511.000	0.0	190.100	511.900	509.200	220.000
BT	511.700	509.100	220.100	510.800	0.0	222.000	512.000	0.0	232.000	520.000
BT	0.0	282.000	520.000	0.0	302.000	514.000	0.0	330.000	514.390	0.0
BT	510.000	515.160	0.0	705.000	516.000	0.0	735.000	516.000	0.0	770.000
BT	518.000	0.0	820.000	520.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.050	0.070	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	1940.000	17.000	220.000	345.000	230.000	230.000	230.000	0.0	0.0	0.0
GR	530.000	100.000	524.000	145.000	520.000	170.000	516.000	180.000	514.000	185.000
GR	510.000	205.000	504.200	220.000	500.100	220.100	497.100	245.000	496.000	255.000
GR	495.300	305.000	497.800	335.000	500.200	344.900	504.200	345.000	510.000	390.000
GR	514.000	410.000	530.000	515.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.180	0.180	0.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	2290.000	19.000	445.000	485.000	350.000	350.000	350.000	0.0	0.0	0.0
GR	530.000	100.000	528.000	120.000	524.000	195.000	522.000	230.000	516.000	315.000
GR	514.000	335.000	512.000	370.000	510.000	390.000	508.000	430.000	506.000	445.000
GR	499.200	460.000	499.200	470.000	505.000	485.000	506.000	605.000	508.000	620.000
GR	510.000	630.000	516.000	645.000	520.000	670.000	530.000	700.000	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	3.400	0.0	0.0	0.0	0.0

X1	2820.000	16.000	310.000	340.000	530.000	530.000	530.000	0.0	0.0	0.0
GR	530.000	100.000	528.000	110.000	526.000	115.000	522.000	145.000	520.000	165.000
GR	518.000	180.000	516.000	205.000	512.000	235.000	508.000	310.000	501.400	320.000
GR	501.400	330.000	508.000	340.000	510.000	341.000	520.000	355.000	526.000	375.000
GR	530.000	400.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	3150.000	12.000	132.000	162.000	330.000	330.000	330.000	0.0	0.0	0.0
GR	530.000	70.000	520.000	110.000	518.000	118.000	516.000	122.000	514.000	132.000
GR	508.180	142.000	508.180	152.000	514.000	162.000	516.000	182.000	518.000	220.000

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GR	520.000	885.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	14.400	0.0	0.0	0.0	0.0
NC	0.060	0.180	0.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	1560.000	21.000	170.000	210.000	580.000	580.000	580.000	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	520.000	100.000	518.000	125.000	516.000	140.000	510.000	170.000	506.000	175.000
GR	498.000	180.000	498.000	190.000	506.000	195.000	514.000	200.000	519.000	210.000
GR	514.000	215.000	510.000	230.000	500.000	245.000	470.000	265.000	468.000	270.000
GR	467.700	275.000	467.700	630.000	468.000	635.000	470.000	640.000	500.000	670.000
GR	520.000	725.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GT	5.000	1010.000	1840.000	2330.000	3880.000	2330.000	0.0	0.0	0.0	0.0
NC	0.0	0.0	0.0	0.300	0.500	0.0	0.0	0.0	0.0	0.0
NH	4.000	0.060	190.100	0.070	220.000	0.070	510.000	10.000	820.000	0.0

X1	1690.000	26.000	190.100	220.000	130.000	130.000	130.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	510.000	510.000	0.0
GR	520.000	100.000	518.000	125.000	516.000	160.000	512.000	180.000	511.000	190.000
GR	509.200	190.100	509.200	191.500	507.900	194.000	500.000	199.000	498.300	204.000
GR	499.300	210.000	507.800	218.000	507.900	219.000	509.100	219.100	509.100	220.000
GR	510.800	220.100	512.000	222.000	520.000	232.000	520.000	282.000	514.000	302.000
GR	514.390	330.000	515.160	510.000	516.000	705.000	516.000	735.000	518.000	770.000
GR	520.000	820.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	1.250	1.560	3.000	0.0	9.000	0.001	185.700	0.920	499.000	499.000

X1	1710.000	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	509.150	510.800	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	510.800	510.800	0.0
BT	18.000	100.000	520.000	0.0	125.000	518.000	0.0	160.000	516.000	0.0
BT	180.000	512.000	0.0	190.000	511.000	0.0	190.100	511.900	509.200	220.000
BT	511.700	509.100	220.100	510.800	0.0	222.000	512.000	0.0	232.000	520.000
BT	0.0	282.000	520.000	0.0	302.000	514.000	0.0	330.000	514.390	0.0
BT	510.000	515.160	0.0	705.000	516.000	0.0	735.000	516.000	0.0	770.000
BT	518.000	0.0	820.000	520.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.050	0.070	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	1940.000	17.000	220.000	345.000	230.000	230.000	230.000	0.0	0.0	0.0
GR	530.000	100.000	524.000	145.000	520.000	170.000	516.000	180.000	514.000	185.000
GR	510.000	205.000	504.200	220.000	500.100	220.100	497.100	245.000	496.000	255.000
GR	495.300	305.000	497.800	335.000	500.200	344.900	504.200	345.000	510.000	390.000
GR	514.000	410.000	530.000	515.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.180	0.180	0.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	2290.000	19.000	445.000	485.000	350.000	350.000	350.000	0.0	0.0	0.0
GR	530.000	100.000	528.000	120.000	524.000	195.000	522.000	230.000	516.000	315.000
GR	514.000	335.000	512.000	370.000	510.000	390.000	508.000	430.000	506.000	445.000
GR	499.200	460.000	499.200	470.000	505.000	485.000	506.000	605.000	508.000	620.000
GR	510.000	630.000	516.000	645.000	520.000	670.000	530.000	700.000	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	3.400	0.0	0.0	0.0	0.0

X1	2820.000	16.000	310.000	340.000	530.000	530.000	530.000	0.0	0.0	0.0
GR	530.000	100.000	528.000	110.000	526.000	115.000	522.000	145.000	520.000	165.000
GR	518.000	180.000	516.000	205.000	512.000	235.000	508.000	310.000	501.400	320.000
GR	501.400	330.000	508.000	340.000	510.000	341.000	520.000	355.000	526.000	375.000
GR	530.000	400.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	3150.000	12.000	132.000	162.000	330.000	330.000	330.000	0.0	0.0	0.0
GR	530.000	70.000	520.000	110.000	518.000	118.000	516.000	122.000	514.000	132.000
GR	508.180	142.000	508.180	152.000	514.000	162.000	516.000	182.000	518.000	220.000

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GR	520.000	240.000	526.000	285.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	5,400	0.0	0.0	0.0	0.0

X1	3360.000	17.000	275.000	305.000	210.000	210.000	210.000	0.0	0.0	0.0
GR	540.000	100.000	536.000	145.000	534.000	160.000	530.000	210.000	518.000	275.000
GR	512.500	280.000	512.500	290.000	518.000	305.000	520.000	330.000	522.000	345.000
GR	524.000	355.000	526.000	375.000	530.000	395.000	534.000	420.000	536.000	435.000
GR	538.000	460.000	540.000	475.000	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.050	0.120	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	3935.000	15.000	275.000	310.000	575.000	575.000	575.000	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	550.000	100.000	544.000	165.000	542.000	180.000	538.000	225.000	536.000	245.000
GR	530.000	275.000	523.900	282.000	523.900	289.000	530.000	300.000	542.000	310.000
GR	530.000	320.000	528.000	325.000	528.000	525.000	530.000	535.000	550.000	555.000
ET	0.0	0.0	0.0	0.0	0.0	10.400	0.0	0.0	0.0	0.0
NC	0.050	0.050	0.100	0.300	0.500	0.0	0.0	0.0	0.0	0.0

X1	4260.000	19.000	339.100	356.000	325.000	325.000	325.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	538.500	538.500	0.0
GR	556.500	100.000	554.800	160.000	550.500	200.000	540.800	287.000	540.300	300.000
GR	539.080	339.000	537.500	339.100	537.500	340.000	533.380	340.100	533.780	347.000
GR	534.380	354.000	537.500	354.100	537.500	356.000	539.080	356.100	539.200	370.000
GR	547.000	385.000	547.000	570.000	549.500	600.000	555.500	700.000	0.0	0.0
SB	1.250	1.560	2.600	0.0	14.000	0.001	51.380	0.0	533.830	533.830

X1	4280.000	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	537.500	539.030	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	539.080	539.080	0.0
BT	14.000	100.000	556.500	0.0	160.000	554.800	0.0	200.000	550.500	0.0
BT	287.000	540.800	0.0	300.000	540.300	0.0	339.000	539.080	0.0	339.100
BT	539.380	537.500	356.000	539.880	537.500	356.100	539.080	0.0	370.000	539.200
BT	0.0	385.000	547.000	0.0	570.000	547.000	0.0	600.000	549.500	0.0
BT	700.000	555.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	4400.000	28.000	712.000	728.000	120.000	120.000	120.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	539.300	539.300	0.0
GR	560.000	100.000	556.000	330.000	554.000	410.000	552.000	475.000	550.000	515.000
GR	548.000	540.000	546.000	580.000	544.000	620.000	542.000	635.000	540.000	660.000
GR	540.000	711.900	538.500	712.000	538.500	713.000	535.200	714.000	535.000	720.000
GR	535.000	726.000	538.500	726.100	538.500	728.000	540.000	728.100	540.000	805.000
GR	542.000	820.000	544.000	845.000	546.000	875.000	552.000	935.000	554.000	1050.000
GR	556.000	1065.000	558.000	1105.000	560.000	1130.000	0.0	0.0	0.0	0.0
SB	1.250	1.560	2.700	0.0	11.500	0.001	43.100	0.230	535.000	535.000

X1	4440.000	0.0	0.0	0.0	40.000	40.000	40.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	538.500	540.000	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	540.000	540.000	0.0
BT	15.000	515.000	550.000	0.0	540.000	548.000	0.0	580.000	546.000	0.0
BT	620.000	544.000	0.0	635.000	542.000	0.0	660.000	540.000	0.0	711.900
BT	540.000	0.0	712.000	540.700	538.500	728.000	540.700	538.500	728.100	540.000
BT	0.0	805.000	540.000	0.0	820.000	542.000	0.0	845.000	544.000	0.0
BT	875.000	546.000	0.0	935.000	552.000	0.0	0.0	0.0	0.0	0.0

X1	4530.000	29.000	750.000	769.700	90.000	90.000	90.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	539.000	539.000	0.0
GR	560.000	100.000	558.000	210.000	556.000	330.000	554.000	410.000	552.000	475.000
GR	550.000	515.000	548.000	540.000	546.000	580.000	544.000	640.000	542.000	720.000
GR	541.100	749.900	538.600	750.000	538.600	751.000	536.000	752.000	535.800	760.000

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GR	535.700	767.500	538.600	768.700	538.600	769.700	540.900	769.800	542.000	915.000
GR	544.000	995.000	546.000	1070.000	548.000	1110.000	550.000	1140.000	552.000	1280.000
GR	554.000	1295.000	556.000	1325.000	558.000	1400.000	560.000	1450.000	0.0	0.0
SB	1.250	1.560	2.700	0.0	15.000	0.001	46.020	0.520	535.800	535.800
X1	4570.000	0.0	0.0	0.0	40.000	40.000	40.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	538.600	540.900	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	540.900	540.900	0.0
BT	14.000	515.000	550.000	0.0	540.000	548.000	0.0	580.000	546.000	0.0
BT	640.000	544.000	0.0	720.000	542.000	0.0	749.900	541.100	0.0	750.000
BT	541.100	539.600	769.700	540.900	538.600	769.800	540.900	0.0	915.000	542.000
BT	0.0	995.000	544.000	0.0	1070.000	546.000	0.0	1110.000	548.000	0.0
BT	1140.000	550.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.0	0.0	0.0	0.100	0.300	0.0	0.0	0.0	0.0	0.0
NH	4.000	10.000	405.000	0.090	515.000	0.050	540.000	0.040	860.000	0.0
X1	4895.000	20.000	515.000	540.000	325.000	325.000	325.000	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	560.000	100.000	558.000	130.000	550.000	210.000	548.000	235.000	546.000	245.000
GR	542.000	255.000	542.000	395.000	544.000	405.000	544.000	415.000	542.000	515.000
GR	540.000	520.000	537.000	528.000	537.000	534.000	540.000	540.000	542.000	555.000
GR	544.000	575.000	546.000	590.000	548.000	700.000	550.000	835.000	560.000	860.000
ET	0.0	0.0	0.0	0.0	0.0	20.400	0.0	0.0	0.0	0.0
NH	4.000	10.000	400.000	0.090	525.000	0.070	545.000	0.090	790.000	0.0
X1	5020.000	13.000	525.000	545.000	125.000	125.000	125.000	0.0	0.0	0.0
GR	560.000	100.000	550.000	200.000	548.670	400.000	548.000	500.000	546.000	520.000
GR	545.000	525.000	541.000	532.000	541.000	538.000	545.000	545.000	546.000	550.000
GR	548.000	570.000	550.000	700.000	560.000	790.000	0.0	0.0	0.0	0.0
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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MOORE BUSINESS FORMS

HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
ERROR CORR - 01,02,03
MODIFICATION - 50,51,52,53

T1 CITY OF MONROE, NC
T2 100 YEAR FLOODWAY
T3 QUARRY TRIBUTARY

J1	ICHECK	INQ	NINV	IDYR	STRT	METRIC	HVINS	Q	WSEL	FO
	0.	6.	0.	0.	0.0	0.0	0.0	0.	478.890	0.0

J2	NPROF	IPLUT	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

MOORE BUSINESS FORMS, INC. PRINTED IN USA

 HEC2 RELEASE DATED NOV 76 UPDATED JULY 1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

QUARRY TRIBUTARY

SUMMARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
300.000	478.89	0.0	480.65	38.06	0.0	2043.00	0.0	0.0	0.0	345.00	415.00	0.0
300.000	478.89	0.0	480.65	38.06	0.0	2043.00	0.0	0.0	345.00	345.00	415.00	415.00
* 500.000	494.42	0.0	497.43	24.65	0.0	2043.00	0.0	0.0	0.0	200.00	240.00	0.0
* 500.000	494.42	0.0	497.43	24.65	0.0	2043.00	0.0	0.0	200.00	200.00	240.00	240.00
600.000	500.75	0.0	502.97	27.22	0.0	2043.00	0.0	0.0	0.0	200.00	240.00	0.0
600.000	500.75	0.0	502.97	27.22	0.0	2043.00	0.0	0.0	200.00	200.00	240.00	240.00
980.000	509.34	0.0	510.17	29.17	0.0	2043.00	0.0	0.0	0.0	200.00	242.00	0.0
980.000	509.34	0.00	510.17	29.17	0.0	2043.00	0.0	0.00	200.00	200.00	242.00	242.00
1560.000	514.27	0.0	514.73	51.91	146.32	1896.68	0.0	0.0	0.0	170.00	210.00	0.0
1560.000	514.68	0.41	515.20	31.35	0.0	2043.00	0.0	0.12	170.00	170.00	210.00	210.00
1690.000	514.90	0.0	515.39	209.86	163.55	2101.25	65.21	0.0	0.0	190.10	220.00	0.0
1690.000	515.52	0.62	516.11	29.90	0.0	2330.00	0.0	0.29	190.10	190.10	220.00	220.00
1710.000	515.08	0.0	515.53	254.98	174.24	2059.96	95.80	0.0	0.0	190.10	220.00	0.0
1710.000	515.70	0.62	516.28	29.90	0.0	2330.00	0.0	0.32	190.10	190.10	220.00	220.00
1940.000	515.58	0.0	515.59	239.29	72.00	2124.17	133.82	0.0	0.0	220.00	345.00	0.0
1940.000	516.34	0.76	516.35	125.00	0.0	2330.00	0.0	0.11	220.00	220.00	345.00	345.00
2290.000	515.58	0.0	515.61	324.71	285.89	1064.19	979.92	0.0	0.0	445.00	485.00	0.0
2290.000	516.33	0.76	516.38	176.19	124.66	1262.69	942.65	0.20	422.93	445.00	485.00	599.12
2820.000	515.81	0.0	516.05	142.72	623.43	1683.04	23.53	0.0	0.0	310.00	340.00	0.0
2820.000	516.66	0.85	516.86	97.27	678.10	1651.90	0.0	0.05	242.73	310.00	340.00	340.00
3150.000	516.78	0.0	518.58	76.33	38.67	2209.59	81.74	0.0	0.0	132.00	162.00	0.0
3150.000	517.77	0.99	519.37	30.00	0.0	2330.00	0.0	0.06	132.00	132.00	162.00	162.00
3360.000	522.24	0.0	523.26	94.14	82.23	2042.49	205.28	0.0	0.0	275.00	305.00	0.0
3360.000	522.95	0.71	524.11	36.69	0.0	2261.94	68.06	0.12	275.00	275.00	305.00	311.69
3935.000	534.41	0.0	535.61	50.74	423.84	1906.15	0.0	0.0	0.0	275.00	310.00	0.0
3935.000	535.32	0.91	536.52	34.07	202.07	2127.93	0.0	0.12	270.35	275.00	310.00	310.00

SECNO	WSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
4260.000	542.44	0.0	543.21	103.95	1027.77	846.60	455.63	0.0	0.0	339.10	356.00	0.0
4260.000	543.19	0.75	544.30	54.96	1187.70	1067.83	74.47	0.36	304.05	339.10	356.00	359.01
4280.000	543.42	0.0	543.87	114.70	1192.31	665.57	472.11	0.0	0.0	339.10	356.00	0.0
4280.000	544.17	0.75	544.83	63.79	1335.76	820.29	173.95	0.31	298.51	339.10	356.00	362.31
4400.000	544.20	0.0	544.32	231.89	902.42	267.69	1159.89	0.0	0.0	712.00	728.00	0.0
4400.000	545.19	0.99	545.35	131.20	816.35	322.73	1190.92	0.32	664.57	712.00	728.00	795.78
4440.000	544.37	0.0	544.48	237.81	907.31	258.05	1164.65	0.0	0.0	712.00	728.00	0.0
4440.000	545.35	0.99	545.50	134.12	825.80	309.69	1194.51	0.31	663.14	712.00	728.00	797.26
4530.000	544.54	0.0	544.63	391.16	463.22	392.39	1474.39	0.0	0.0	750.00	769.70	0.0
4530.000	545.50	0.96	545.66	154.04	112.75	478.20	1739.05	0.41	740.36	750.00	769.70	894.40
4570.000	544.66	0.0	544.75	399.70	476.33	373.64	1480.03	0.0	0.0	750.00	769.70	0.0
4570.000	545.62	0.96	545.77	160.06	146.24	453.41	1730.35	0.40	737.55	750.00	769.70	897.61
4895.000	545.22	0.0	545.79	337.24	480.77	1192.59	656.63	0.0	0.0	515.00	540.00	0.0
4895.000	546.07	0.84	546.92	68.67	315.23	1519.51	495.26	0.33	485.16	515.00	540.00	553.83
* 5020.000	549.37	0.0	550.34	364.26	537.91	1387.30	404.79	0.0	0.0	525.00	545.00	0.0
* 5020.000	549.55	0.18	552.77	27.36	193.37	2131.46	5.17	0.63	518.19	525.00	545.00	545.55

SUMMARY OF ERRORS

CAUTION SECNO= 500.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 500.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 500.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 500.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 500.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 500.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 5020.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 5020.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 5020.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 5020.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 5020.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 5020.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOODWAY DATA, QUARRY TRIBUTARY

PROFILE NO. 2

STATION	FLOODWAY			WATER SURFACE ELEVATION		
	WIDTH (FT)	SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
300.000	38.	192.	10.6	478.9	478.9	0.0
500.000	25.	147.	13.9	494.4	494.4	0.0
600.000	27.	171.	11.9	500.8	500.8	0.0
980.000	29.	279.	7.3	509.3	509.3	0.0
1560.000	31.	351.	5.8	514.7	514.3	0.4
1690.000	30.	376.	6.2	515.5	514.9	0.6
1710.000	30.	382.	6.1	515.7	515.1	0.6
1940.000	125.	2442.	1.0	516.4	515.6	0.8
2290.000	176.	2028.	1.1	516.4	515.6	0.8
2820.000	97.	854.	2.7	516.6	515.8	0.8
3150.000	30.	230.	10.1	517.8	516.8	1.0
3360.000	37.	290.	8.0	522.9	522.2	0.7
3935.000	34.	265.	8.8	535.3	534.4	0.9
4260.000	55.	285.	8.2	543.2	542.4	0.8
4280.000	64.	377.	6.2	544.2	543.4	0.8
4400.000	131.	748.	3.1	545.2	544.2	1.0
4440.000	134.	785.	3.0	545.4	544.4	1.0
4530.000	154.	737.	3.2	545.5	544.5	1.0
4570.000	160.	781.	3.0	545.7	544.7	1.0
4895.000	69.	369.	6.3	546.0	545.2	0.8
5020.000	27.	172.	13.5	549.6	549.4	0.2

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MODIFICATION - 50,51,52,53

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