
 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

C
 T1 ROWAN CO. BASIN B DUTCH BUFFALO CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 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.	679.000	0.0
J2	NPROF	IPLT	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									
	39.000	39.000	40.000	41.000	43.000	42.000	1.000	2.000	26.000	53.000
	54.000	25.000	50.000	0.0	201.000	0.0	0.0	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
GT	5.000	1740.000	2910.000	3400.000	4240.000	3400.000	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	108200.000	44.000	700.000	759.000	108200.000	108200.000	108200.000	0.0	0.0	0.0
GR	710.300	34.000	695.800	69.000	692.300	98.000	689.200	159.000	683.700	312.000
GR	681.800	334.000	683.700	348.000	683.200	388.000	683.200	395.000	683.300	438.000
GP	682.300	440.000	683.300	442.000	683.300	500.000	682.800	610.000	682.200	615.000
GP	682.200	618.000	682.800	640.000	684.000	690.000	685.600	700.000	680.800	708.000

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

38.000 39.000 40.000 41.000 43.000 42.000 1.000 2.000 26.000 53.000

54.000 25.000 50.000 0.0 201.000 0.0 0.0 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	1740.000	2910.000	3400.000	4240.000	3400.000	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	108200.000	44.000	700.000	759.000	108200.000	108200.000	108200.000	0.0	0.0	0.0
GR	710.300	34.000	695.800	69.000	692.300	98.000	689.200	159.000	683.700	312.000
GR	681.800	334.000	683.700	348.000	683.200	388.000	683.200	395.000	683.300	438.000
GR	682.300	440.000	683.300	442.000	683.300	500.000	682.800	610.000	682.200	615.000
GR	683.200	619.000	682.800	640.000	684.000	690.000	685.600	700.000	680.800	708.000
GR	681.300	713.000	674.700	718.000	673.600	718.000	673.700	724.000	673.400	730.000
GR	673.700	739.000	674.700	740.000	680.700	740.000	681.500	754.000	685.300	759.000
GR	685.000	761.000	684.100	763.000	682.800	681.800	683.300	878.000	683.300	936.000
GR	682.600	994.000	683.200	1049.000	681.200	1052.000	681.300	1056.000	683.000	1065.000
GR	687.300	1113.000	691.200	1170.000	695.000	1200.000	705.000	1280.000	0.0	0.0

X1	109000.000	13.000	1400.000	1460.000	800.000	800.000	800.000	0.0	0.0	0.0
GR	692.900	1000.000	689.800	1100.000	686.900	1200.000	685.900	1300.000	687.100	1400.000
GR	677.300	1426.000	676.700	1439.000	676.900	1443.000	683.300	1448.000	687.100	1460.000
GR	685.300	1500.000	685.700	1600.000	685.700	1700.000	0.0	0.0	0.0	0.0
QT	5.000	1600.000	2700.000	3200.000	4010.000	3200.000	0.0	0.0	0.0	0.0

X1	111000.000	13.000	1400.000	1431.000	2000.000	2000.000	2000.000	0.0	0.0	0.0
GR	695.600	1000.000	693.000	1100.000	690.800	1200.000	689.400	1300.000	689.600	1400.000
GR	683.000	1413.000	682.400	1421.000	683.000	1429.000	690.300	1431.000	688.600	1500.000
GR	683.500	1600.000	691.400	1678.000	695.100	1715.000	0.0	0.0	0.0	0.0
QT	5.000	1570.000	2650.000	3150.000	3970.000	3150.000	0.0	0.0	0.0	0.0

X1	112465.000	13.000	1400.000	1433.000	1465.000	1465.000	1465.000	0.0	0.0	0.0
GR	705.500	1000.000	700.000	1100.000	695.500	1200.000	693.000	1300.000	693.100	1400.000
GR	685.900	1411.000	685.800	1419.000	685.900	1427.000	692.800	1433.000	692.100	1500.000
GR	694.000	1600.000	696.700	1700.000	699.400	1800.000	0.0	0.0	0.0	0.0

X1	112565.000	18.000	1400.000	1440.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	703.000	1000.000	699.700	1100.000	697.200	1200.000	693.700	1300.000	694.800	1387.000
GR	681.400	1387.000	685.500	1400.000	686.700	1400.000	687.100	1407.000	684.700	1422.000

GR	633.000	1413.000	682.400	1421.000	683.000	1429.000	689.400	1300.000	689.600	1400.000
GR	683.500	1600.000	691.400	1678.000	695.100	1715.000	690.300	1431.000	688.600	1500.000
QT	5.000	1570.000	2650.000	3150.000	3970.000	3150.000	0.0	0.0	0.0	0.0
							0.0	0.0	0.0	0.0

X1	112465.000	13.000	1400.000	1433.000	1465.000	1465.000	1465.000	0.0	0.0	0.0
GR	705.500	1000.000	700.000	1100.000	695.500	1200.000	693.000	1300.000	693.100	1400.000
GR	685.900	1411.000	685.800	1419.000	685.900	1427.000	692.800	1433.000	692.100	1500.000
GR	694.000	1600.000	696.700	1700.000	699.400	1800.000	0.0	0.0	0.0	0.0

X1	112565.000	18.000	1400.000	1440.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	703.000	1000.000	699.700	1100.000	697.200	1200.000	693.700	1300.000	694.800	1387.000
GR	691.400	1397.000	695.500	1400.000	688.700	1400.000	687.100	1407.000	686.700	1422.000
GR	686.900	1437.000	688.900	1440.000	695.300	1440.000	693.100	1450.000	692.600	1500.000
GR	695.100	1600.000	698.000	1700.000	700.800	1800.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	40.000	0.010	243.900	0.0	0.0	0.0

RDND NCSR 1221 MXLCEL 693.3 RDELV 695.5

X1	112586.000	0.0	0.0	0.0	21.000	21.000	21.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	693.300	695.200	0.0	0.0	0.0	0.0	0.0
BT	11.000	1000.000	703.000	0.0	1100.000	699.700	0.0	0.0	0.0	0.0
BT	1300.000	695.600	0.0	1400.000	95.500	693.300	1422.000	1200.000	697.200	0.0
BT	695.300	693.100	1500.000	695.200	0.0	1600.000	696.100	695.400	693.200	1440.000
BT	0.0	1800.000	700.800	0.0	0.0	0.0	0.0	0.0	1700.000	698.000
							0.0	0.0	0.0	0.0

X1	112686.000	13.000	1400.000	1433.000	100.000	100.000	100.000	0.0	1.800	0.0
GR	705.500	1000.000	700.000	1100.000	695.500	1200.000	693.000	1300.000	693.100	1400.000
GR	685.900	1411.000	685.800	1419.000	685.900	1427.000	692.800	1433.000	692.100	1500.000
GR	694.000	1600.000	696.700	1700.000	699.400	1800.000	0.0	0.0	0.0	0.0
QT	5.000	1500.000	2560.000	3010.000	3810.000	3010.000	0.0	0.0	0.0	0.0

X1	115000.000	12.000	1400.000	1430.000	2314.000	2314.000	2314.000	0.0	0.0	0.0
GR	706.800	1000.000	703.900	1100.000	702.400	1200.000	701.000	1300.000	698.600	1400.000
GR	694.200	1406.000	693.900	1415.000	694.200	1424.000	699.800	1430.000	699.600	1500.000
GR	701.000	1600.000	708.300	1700.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	116000.000	13.000	200.000	218.000	1000.000	1000.000	1000.000	0.0	0.0	0.0
GR	724.800	1.000	713.300	1.100	708.700	76.000	708.000	86.000	705.900	120.000
GR	704.400	160.000	701.700	200.000	698.800	206.000	698.800	214.000	701.000	218.000
GR	702.300	266.000	703.400	377.000	725.000	414.000	0.0	0.0	0.0	0.0
QT	5.000	580.000	1100.000	1340.000	1930.000	1340.000	0.0	0.0	0.0	0.0

X1 117450.000 13.000 1300.000 1370.000

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

10 YEAR FLOOD WATER SURF
 SUMMARY PRINTOUT

no 0' relative

	SECCO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
	108200.000	108200.00	n.0	0.0	1740.00	673.40	683.71	0.0	4.41	311.61	1072.97	725.30	0.0
A	108200.000	108200.00	n.0	0.0	2910.00	673.40	684.45	0.0	4.67	291.07	1081.21	1280.54	0.74
	108200.000	108200.00	n.0	0.0	3400.00	673.40	684.70	0.0	4.73	446.284.12730	1084.00354	1476.12	0.25
	108200.000	108200.00	n.0	0.0	4240.00	673.40	685.07	0.0	4.85	456.273.96	1088.08358	1767.79	0.37
	109000.000	800.00	n.0	0.0	1740.00	676.70	686.67	0.0	4.40	1222.82	1700.00	622.42	0.0
B	109000.000	800.00	n.0	0.0	2910.00	676.70	687.55	0.0	4.99	1177.44	1700.00	1058.25	0.88
	109000.000	800.00	n.0	0.0	3400.00	676.70	687.82	0.0	5.21	1168.17	1700.00	1199.96	0.27
	109000.000	800.00	n.0	0.0	4240.00	676.70	688.24	0.0	5.53	1153.85	1700.00	1423.76	0.42
	111000.000	2000.00	n.0	0.0	1600.00	682.40	690.54	0.0	2.36	1218.46	1669.52	1108.30	0.0
C	111000.000	2000.00	n.0	0.0	2700.00	682.40	691.70	0.0	2.73	1159.02	1681.02	1675.71	1.16
	111000.000	2000.00	n.0	0.0	3200.00	682.40	692.09	0.0	2.87	1141.31	1684.91	1883.39	0.39
	111000.000	2000.00	n.0	0.0	4010.00	682.40	692.66	0.0	3.07	1115.43	1690.61	2201.89	0.57
	112465.000	1465.00	n.0	0.0	1570.00	685.80	693.58	0.0	6.71	1276.78	1577.93	387.27	0.0
	112465.000	1465.00	n.0	0.0	2650.00	685.80	694.73	0.0	6.57	1230.47	1627.35	793.74	1.16
D	112465.000	1465.00	n.0	0.0	3150.00	685.80	695.15	0.0	6.53	1213.88	1642.71	964.98	0.42
	112465.000	1465.00	n.0	0.0	3970.00	685.80	695.78	0.0	6.52	1188.73	1642.71	1188.73	0.42

C	111000.000	2000.00	n.0	0.0	1600.00	682.40	690.34	0.0	2.36	1216.46	1669.52	1108.30	0.0
	111000.000	2000.00	n.0	0.0	2700.00	682.40	691.70	0.0	2.73	1159.02	1681.02	1675.71	1.16
	111000.000	2000.00	n.0	0.0	3200.00	682.40	692.09	0.0	2.87	1141.31	1680.91	1803.39	0.39
	111000.000	2000.00	n.0	0.0	4010.00	682.40	692.66	0.0	3.07	1115.43	1690.61	2201.89	0.57
D	112465.000	1465.00	n.0	0.0	1570.00	685.80	693.58	0.0	6.71	1276.78	1577.93	387.27	0.0
	112465.000	1465.00	n.0	0.0	2650.00	685.80	694.73	0.0	6.57	1230.47	1627.35	793.74	1.16
	112465.000	1465.00	n.0	0.0	3150.00	685.80	695.15	0.0	6.53	1213.88	1642.71	964.98	0.42
	112465.000	1465.00	n.0	0.0	3970.00	685.80	695.74	0.0	6.52	1194.79	1664.24	1226.80	0.58
	112565.000	100.00	n.0	0.0	1570.00	686.70	694.41	0.0	4.70	1279.53	1551.90	465.94	0.0
	112565.000	100.00	n.0	0.0	2650.00	686.70	695.30	0.0	6.02	1254.16	1577.27	722.06	0.89
	112565.000	100.00	n.0	0.0	3150.00	686.70	695.67	0.0	6.36	1243.75	1587.68	843.53	0.36
	112565.000	100.00	n.0	0.0	3970.00	686.70	696.20	0.0	6.77	1228.66	1605.11	1033.34	0.53
	112586.000	21.00	695.20	693.30	1570.00	686.70	695.20	0.0	3.69	1257.14	1574.29	688.69	0.0
	112586.000	21.00	695.20	693.30	2650.00	686.70	696.37	0.0	4.27	1223.65	1614.34	1100.63	1.17
	112586.000	21.00	695.20	693.30	3150.00	686.70	696.70	0.0	4.58	1214.23	1631.69	1233.85	0.38
	112586.000	21.00	695.20	693.30	3970.00	686.70	697.16	0.0	5.03	1201.12	1655.83	1433.93	0.46
E	112686.000	100.00	n.0	0.0	1570.00	687.60	695.20	693.40	7.28	1284.04	1568.38	334.13	0.0
	112686.000	100.00	n.0	0.0	2650.00	687.60	696.57	0.0	6.46	1228.93	1628.77	809.02	1.38
	112686.000	100.00	n.0	0.0	3150.00	687.60	696.94	0.0	6.55	1214.15	1642.45	962.03	0.37
	112686.000	100.00	n.0	0.0	3970.00	687.60	697.45	0.0	6.73	1196.55	1661.32	1189.93	0.51
F	115000.000	2314.00	n.0	0.0	1500.00	693.90	702.46	0.0	3.08	1196.15	1619.97	985.43	0.0
	115000.000	2314.00	n.0	0.0	2560.00	693.90	703.36	0.0	3.70	1135.96	1632.33	1400.82	0.90
	115000.000	2314.00	n.0	0.0	3010.00	693.90	703.72	0.0	3.85	1112.08	1637.24	1583.75	0.36
	115000.000	2314.00	n.0	0.0	3810.00	693.90	704.26	0.0	4.08	1087.43	1644.72	1880.16	0.55

	SECNO	XLCH	ELTRD	FLLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
G	116000.000	1000.00	n.0	0.0	1500.00	698.80	704.73	0.0	5.50	151.08	379.29	521.36	0.0
	116000.000	1000.00	n.0	0.0	2560.00	698.80	705.88	0.0	5.89	120.55	381.25	801.20	1.15
	116000.000	1000.00	n.0	0.0	3010.00	698.80	706.26	0.0	6.09	114.21	381.89	901.18	0.38
	116000.000	1000.00	n.0	0.0	3810.00	698.80	706.85	0.0	6.44	104.61	382.91	1063.14	0.59
H	117450.000	1450.00	n.0	0.0	580.00	701.40	709.45	0.0	2.35	1195.80	1458.11	435.54	0.0
	117450.000	1450.00	n.0	0.0	1100.00	701.40	710.49	0.0	2.85	1178.13	1479.38	729.29	1.04
	117450.000	1450.00	n.0	0.0	1340.00	701.40	710.87	0.0	3.00	1171.64	1487.20	847.36	0.38
	117450.000	1450.00	n.0	0.0	1930.00	701.40	711.56	0.0	3.39	1159.82	1501.11	1076.57	0.69

G	116000.000	1000.00	n.o	0.0	1500.00	698.80	704.73	0.0	5.50	151.08	379.29	921.36	0.0
	116000.000	1000.00	n.o	0.0	2560.00	698.80	705.88	0.0	5.89	120.55	381.25	801.20	1.19
	116000.000	1000.00	n.o	0.0	3010.00	698.80	706.26	0.0	6.09	114.21	381.89	901.18	0.38
	116000.000	1000.00	n.o	0.0	3810.00	698.80	706.85	0.0	6.44	104.61	382.91	1063.14	0.59
H	117450.000	1450.00	n.o	0.0	580.00	701.40	709.45	0.0	2.35	1195.80	1458.11	435.54	0.0
	117450.000	1450.00	n.o	0.0	1100.00	701.40	710.49	0.0	2.85	1178.13	1479.38	729.29	1.04
	117450.000	1450.00	n.o	0.0	1340.00	701.40	710.87	0.0	3.00	1171.64	1487.20	847.36	0.38
	117450.000	1450.00	n.o	0.0	1930.00	701.40	711.56	0.0	3.39	1159.82	1501.11	1076.57	0.69
I	* 120640.000	3190.00	n.o	0.0	317.00	721.90	725.00	725.00	8.56	1285.61	1302.14	37.03	0.0
	* 120640.000	3190.00	n.o	0.0	670.00	721.90	726.54	726.54	10.25	1283.02	1303.41	65.38	1.54
	* 120640.000	3190.00	n.o	0.0	850.00	721.90	727.17	727.17	10.80	1281.96	1303.93	78.73	0.63
	* 120640.000	3190.00	n.o	0.0	1300.00	721.90	728.40	728.40	12.08	1279.89	1304.94	107.65	1.23
	120740.000	100.00	n.o	0.0	317.00	723.70	727.81	0.0	5.17	1286.00	1302.00	61.32	0.0
	120740.000	100.00	n.o	0.0	670.00	723.70	729.85	0.0	7.14	1286.00	1302.00	93.84	2.04
	120740.000	100.00	n.o	0.0	850.00	723.70	730.64	728.41	7.83	1279.99	1433.40	121.74	0.79
	120740.000	100.00	n.o	0.0	1300.00	723.70	732.22	0.0	6.69	1238.40	1471.79	356.02	1.50
	120761.000	21.00	731.60	730.90	317.00	723.70	727.81	0.0	5.17	1286.00	1302.00	61.32	0.0
	120761.000	21.00	731.60	730.90	670.00	723.70	729.85	0.0	7.13	1286.00	1302.00	93.97	2.04
	120761.000	21.00	731.60	730.90	850.00	723.70	731.44	0.0	6.16	1259.09	1452.69	206.66	1.50
	120761.000	21.00	731.60	730.90	1300.00	723.70	733.04	0.0	4.45	1217.11	1491.44	562.71	1.61
J	120861.000	100.00	n.o	0.0	317.00	725.50	729.19	0.0	6.72	1284.62	1302.63	47.18	0.0
	120861.000	100.00	n.o	0.0	670.00	725.50	731.42	0.0	7.16	1280.86	1304.46	93.56	2.23
	120861.000	100.00	n.o	0.0	850.00	725.50	732.38	0.0	7.25	1279.25	1305.25	117.28	0.96
	* 120861.000	100.00	n.o	0.0	1300.00	725.50	733.25	733.25	8.20	1277.78	1519.70	230.44	0.87

SUMMARY OF ERRORS

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