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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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 T1 LANDIS-ROWAN CO. BASIN E-A STRM 2-1L BEAVER CREEK  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-1.	2.	0.	0.	0.006000	0.0	0.0	0.	650.000	0.0
J2	MPROP	IPLOT	PREVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.0000	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
J5	LPRNT	NUMSEC	*****REQUESTED SECTION NUMBERS*****							
	-10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	1125.000	1875.000	2225.000	3050.000	2225.000	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	875.000	16.000	1434.000	1465.000	875.000	875.000	875.000	0.0	0.0	0.0
GR	660.200	1000.000	658.700	1100.000	659.300	1150.000	653.900	1200.000	651.900	1300.000
GR	549.500	1400.000	651.100	1434.000	647.200	1441.000	647.000	1449.000	645.000	1457.000
GR	650.400	1465.000	651.200	1500.000	656.600	1600.000	662.400	1700.000	667.000	1800.000
GR	568.100	1827.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	925.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	975.000	15.000	1400.000	1440.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	665.300	1000.000	662.400	1100.000	658.500	1200.000	656.000	1300.000	655.500	1400.000
GR	645.200	1400.000	645.500	1410.000	646.700	1431.000	649.300	1433.000	649.800	1440.000
GR	655.500	1440.000	655.900	1500.000	658.300	1600.000	662.400	1700.000	668.000	1800.000
SB	0.900	1.500	2.500	0.0	40.000	0.010	256.000	0.0	0.0	0.0
	RDNO	NCSR	1230	MXLCEL	653.0	ROELV	655.5			
X1	993.000	0.0	0.0	0.0	18.000	18.000	18.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	653.000	655.500	0.0	0.0	0.0	0.0	0.0

BT	10.000	1000.000	665.300	0.0	1100.000	662.400	0.0	1200.000	658.500	0.0
BT	1300.000	656.000	0.0	1400.000	655.500	653.000	1440.000	655.500	652.900	1500.000
BT	659.900	0.0	1600.000	658.300	0.0	1700.000	662.400	0.0	1800.000	668.000
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	1043.000	16.000	1434.000	1465.000	50.000	50.000	50.000	0.0	0.400	0.0
GR	660.200	1000.000	658.700	1100.000	659.300	1150.000	653.900	1200.000	647.900	1300.000
GR	649.500	1400.000	651.100	1434.000	647.200	1441.000	647.000	1449.000	645.000	1457.000
GR	650.400	1465.000	651.200	1500.000	656.600	1600.000	662.400	1700.000	667.000	1300.000
GR	668.100	1827.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	1093.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200	0.0
QT	5.000	1050.000	1725.000	2100.000	2800.000	2100.000	0.0	0.0	0.0	0.0

X1	3565.000	16.000	1228.000	1255.000	2472.000	2472.000	2472.000	0.0	0.0	0.0
GR	677.000	1000.000	668.300	1100.000	661.300	1178.000	661.000	1200.000	661.900	1228.000
GR	656.500	1232.000	656.600	1239.000	657.100	1250.000	661.300	1255.000	662.500	1300.000
GR	661.600	1400.000	661.300	1500.000	661.700	1516.000	667.900	1536.000	672.300	1600.000
GR	673.300	1615.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	800.000	1350.000	1630.000	2250.000	1630.000	0.0	0.0	0.0	0.0

X1	6615.000	9.000	1164.000	1202.000	3050.000	3050.000	3050.000	0.0	-2.800	0.0
GR	714.300	1000.000	703.200	1100.000	699.200	1164.000	696.800	1177.000	695.000	1187.000
GR	696.800	1197.000	697.600	1202.000	709.600	1300.000	714.300	1345.000	0.0	0.0

X1	6665.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.600	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	6705.000	14.000	1200.000	1230.000	40.000	40.000	40.000	0.0	0.0	0.0
GR	720.800	1000.000	711.800	1100.000	704.200	1150.000	705.800	1200.000	797.200	1200.000
GR	696.000	1209.000	695.200	1212.000	693.900	1220.000	694.200	1230.000	705.800	1230.000
GR	708.000	1300.000	713.200	1400.000	718.600	1500.000	720.800	1524.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	30.000	0.010	251.000	0.0	0.0	0.0

RDNQ NCS2 1322      MXLCEL 703.2      RDELV 705.8

X1	6725.000	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	703.200	705.800	0.0	0.0	0.0	0.0	0.0
BT	9.000	1000.000	720.800	0.0	1100.000	711.800	0.0	1150.000	704.200	0.0
BT	1200.000	705.800	703.200	1230.000	705.800	703.200	1300.000	708.000	0.0	1400.000
BT	713.200	0.0	1500.000	718.600	0.0	1524.000	720.800	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	6765.000	9.000	1164.000	1202.000	40.000	40.000	40.000	0.0	0.0	0.0
GR	714.300	1000.000	703.200	1100.000	699.200	1164.000	696.800	1177.000	695.000	1187.000
GR	696.800	1197.000	697.600	1202.000	709.600	1300.000	714.300	1345.000	0.0	0.0

X1	6815.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.400	0.0
QT	5.000	680.000	1120.000	1425.000	1980.000	1425.000	0.0	0.0	0.0	0.0

X1	9970.000	13.000	1254.000	1273.000	3155.000	3155.000	3155.000	0.0	0.0	0.0
GR	742.300	1000.000	733.900	1100.000	729.100	1200.000	728.900	1230.000	725.300	1250.000
GR	724.500	1254.000	722.300	1256.000	722.400	1261.000	722.400	1267.000	728.000	1273.000
GR	727.200	1300.000	730.000	1331.000	740.000	1556.000	0.0	0.0	0.0	0.0
QT	5.000	450.000	780.000	970.000	1370.000	970.000	0.0	0.0	0.0	0.0



SB 0.900 1.500 2.500 0.0 13.000 0.010 84.000 0.0 0.0 0.0

ROND BEAVER STRFET MXLCEL 778.5 RDELV 782.5

X1	15530.000	0.0	0.0	0.0	60.000	60.000	60.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	778.500	782.500	0.0	0.0	0.0	0.0	0.0
BT	19.000	1000.000	792.900	0.0	1100.000	785.300	0.0	1200.000	782.700	0.0
BT	1249.500	782.500	771.900	1249.000	782.500	773.700	1250.000	792.500	775.500	1251.000
BT	782.500	776.800	1252.000	782.500	777.600	1253.000	782.500	778.000	1255.000	782.500
BT	778.500	1257.000	782.500	778.200	1258.000	782.500	777.800	1259.000	782.500	777.200
BT	1260.000	782.500	776.200	1261.000	782.500	773.800	1261.500	782.500	770.500	1300.000
BT	783.200	0.0	1400.000	789.100	0.0	1459.000	792.900	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
VC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	15580.000	10.000	1117.000	1144.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	794.300	1000.000	779.900	1100.000	778.900	1117.000	776.300	1119.000	776.100	1125.000
GR	776.500	1134.000	779.200	1144.000	781.800	1200.000	788.500	1300.000	794.300	1329.000

X1	15630.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.400	0.0
BT	5.000	240.000	450.000	560.000	650.000	550.000	0.0	0.0	0.0	0.0

X1	15710.000	11.000	1108.000	1126.000	80.000	80.000	80.000	0.0	0.0	0.0
GR	800.700	1000.000	786.000	1100.000	783.600	1108.000	779.600	1115.000	779.700	1112.000
GR	779.900	1122.000	778.500	1126.000	780.700	1200.000	783.300	1300.000	787.900	1400.000
GR	800.700	1469.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	15760.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	2.300	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	15810.000	14.000	1375.000	1386.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	805.900	1000.000	801.800	1100.000	797.500	1200.000	792.700	1300.000	790.900	1375.000
GR	785.700	1375.000	785.000	1380.000	784.400	1386.000	790.900	1386.000	790.900	1400.000
GR	791.900	1500.000	792.500	1600.000	795.200	1700.000	800.300	1800.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	11.000	0.010	51.000	0.0	0.0	0.0

ROND CHAPEL STRFET MXLCEL 789.6 RDELV 790.9

X1	15843.000	0.0	0.0	0.0	33.000	33.000	33.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	789.600	790.900	0.0	0.0	0.0	0.0	0.0
BT	11.000	1000.000	805.900	0.0	1100.000	801.800	0.0	1200.000	797.500	0.0
BT	1300.000	792.700	0.0	1375.000	790.900	789.600	1386.000	790.900	789.600	1400.000
BT	791.000	0.0	1500.000	791.900	0.0	1600.000	792.500	0.0	1700.000	795.200
BT	0.0	1600.000	800.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	15893.000	11.000	1108.000	1126.000	50.000	50.000	50.000	0.0	5.500	0.0
GR	800.700	1000.000	786.000	1100.000	783.600	1108.000	779.600	1115.000	779.700	1112.000
GR	779.900	1122.000	778.500	1126.000	780.700	1200.000	783.300	1300.000	787.900	1400.000
GR	800.700	1469.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	15943.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.800	0.0
BT	5.000	129.000	255.000	330.000	520.000	330.000	0.0	0.0	0.0	0.0

X1	17043.000	12.000	1220.000	1240.000	1100.000	1100.000	1100.000	0.0	0.0	0.0
GR	825.100	1000.000	814.900	1100.000	807.900	1200.000	806.600	1220.000	800.800	1229.000











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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

200 5 14 4

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

C45 C45

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
875.000	875.00	0.0	0.0	1125.00	645.00	650.26	0.0	6.47	1260.67	1464.79	296.78	0.0
875.000	875.00	0.0	0.0	1875.00	645.00	650.98	0.0	7.19	1248.68	1490.35	447.46	0.72
875.000	875.00	0.0	0.0	2225.00	645.00	651.24	0.0	7.52	1244.39	1500.68	511.47	0.26
875.000	875.00	0.0	0.0	3050.00	645.00	651.76	0.0	8.21	1235.72	1510.31	649.51	0.52
925.000	50.00	0.0	0.0	1125.00	645.10	650.63	0.0	5.49	1256.13	1470.79	349.00	0.0
925.000	50.00	0.0	0.0	1875.00	645.10	651.34	0.0	6.32	1244.25	1500.83	513.52	0.71
925.000	50.00	0.0	0.0	2225.00	645.10	651.61	0.0	6.65	1239.85	1505.72	582.58	0.26
925.000	50.00	0.0	0.0	3050.00	645.10	652.14	0.0	7.35	1231.04	1515.50	727.92	0.53
975.000	50.00	0.0	0.0	1125.00	645.20	650.52	0.0	7.18	1400.00	1440.00	156.71	0.0
* 975.000	50.00	0.0	0.0	1875.00	645.20	650.67	650.67	11.55	1400.00	1440.00	162.36	0.15
* 975.000	50.00	0.0	0.0	2225.00	645.20	651.16	651.16	12.23	1400.00	1440.00	182.00	0.49
* 975.000	50.00	0.0	0.0	3050.00	645.20	652.24	652.24	13.55	1400.00	1440.00	225.11	1.08
993.000	18.00	655.50	653.00	1125.00	645.20	650.52	0.0	7.19	1400.00	1440.00	156.52	0.0
993.000	18.00	655.50	653.00	1875.00	645.20	650.67	0.0	11.54	1400.00	1440.00	162.51	0.15
993.000	18.00	655.50	653.00	2225.00	645.20	651.17	0.0	12.21	1400.00	1440.00	182.17	0.49
993.000	18.00	655.50	653.00	3050.00	645.20	653.75	0.0	10.68	1400.00	1440.00	285.67	2.59
1043.000	50.00	0.0	0.0	1125.00	645.40	651.42	0.0	4.23	1248.03	1492.03	456.72	0.0
1043.000	50.00	0.0	0.0	1875.00	645.40	652.96	0.0	3.74	1222.26	1525.27	882.79	1.55
1043.000	50.00	0.0	0.0	2225.00	645.40	653.72	0.0	3.50	1209.55	1539.39	1124.13	0.75
1043.000	50.00	0.0	0.0	3050.00	645.40	655.68	0.0	2.93	1187.16	1575.68	1830.84	1.97
1093.000	50.00	0.0	0.0	1125.00	645.60	651.51	0.0	4.47	1249.81	1487.37	431.39	0.0
1093.000	50.00	0.0	0.0	1875.00	645.60	653.01	0.0	3.95	1224.88	1522.35	835.48	1.50
1093.000	50.00	0.0	0.0	2225.00	645.60	653.75	0.0	3.69	1212.54	1536.06	1065.37	0.74
1093.000	50.00	0.0	0.0	3050.00	645.60	655.70	0.0	3.05	1188.91	1572.18	1758.04	1.95
* 3565.000	2472.00	0.0	0.0	1050.00	656.50	662.08	662.08	7.13	1169.32	1517.22	260.00	0.0
* 3565.000	2472.00	0.0	0.0	1725.00	656.50	662.73	662.73	7.70	1162.05	1519.33	476.98	0.65
* 3565.000	2472.00	0.0	0.0	2100.00	656.50	662.85	662.85	8.67	1160.68	1519.72	520.78	0.12
* 3565.000	2472.00	0.0	0.0	2800.00	656.50	663.16	663.16	9.63	1157.27	1520.71	631.47	0.31
* 6615.000	3050.00	0.0	0.0	800.00	692.20	696.36	696.36	8.58	1164.20	1214.77	100.19	0.0
* 6615.000	3050.00	0.0	0.0	1350.00	692.20	697.38	697.38	9.68	1148.30	1223.08	163.80	1.02
* 6615.000	3050.00	0.0	0.0	1630.00	692.20	697.81	697.81	10.09	1141.36	1226.63	198.53	0.43
* 6615.000	3050.00	0.0	0.0	2250.00	692.20	698.65	698.65	10.78	1127.96	1233.46	278.39	0.84

SECHO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
6665.000	50.00	0.0	0.0	800.00	692.80	697.10	696.98	8.04	1162.26	1215.96	107.76	0.0
* 6665.000	50.00	6.0	0.0	1350.00	692.80	697.99	697.99	9.65	1148.13	1223.17	164.62	0.89
* 6665.000	50.00	0.0	0.0	1630.00	692.80	698.42	698.42	10.06	1141.20	1226.70	199.35	0.43
* 6665.000	50.00	0.0	0.0	2250.00	692.80	699.22	699.22	10.87	1128.44	1233.22	275.25	0.80
* 6705.000	40.00	0.0	0.0	800.00	693.90	698.02	698.02	10.68	1208.82	1230.00	74.92	0.0
* 6705.000	40.00	0.0	0.0	1350.00	693.90	699.48	699.48	12.74	1208.69	1230.00	105.99	1.46
* 6705.000	40.00	0.0	0.0	1630.00	693.90	700.16	700.16	13.53	1208.63	1230.00	120.45	0.68
* 6705.000	40.00	0.0	0.0	2250.00	693.90	701.51	701.51	15.06	1208.51	1230.00	149.44	1.35
6725.000	20.00	705.80	703.20	800.00	693.90	698.03	0.0	10.66	1208.82	1230.00	75.02	0.0
6725.000	20.00	705.80	703.20	1350.00	693.90	699.49	0.0	12.72	1208.69	1230.00	106.14	1.46
6725.000	20.00	705.80	703.20	1630.00	693.90	700.17	0.0	13.51	1208.63	1230.00	120.62	0.68
6725.000	20.00	705.80	703.20	2250.00	693.90	701.52	0.0	15.03	1208.51	1230.00	149.66	1.35
6765.000	40.00	0.0	0.0	800.00	695.00	699.60	0.0	7.13	1157.58	1218.34	124.50	0.0
6765.000	40.00	0.0	0.0	1350.00	695.00	702.00	0.0	5.56	1119.26	1237.90	339.30	2.40
6765.000	40.00	0.0	0.0	1630.00	695.00	703.07	0.0	5.11	1102.03	1246.70	481.14	1.08
6765.000	40.00	0.0	0.0	2250.00	695.00	705.24	0.0	4.37	1081.64	1264.37	836.34	2.16
6815.000	50.00	0.0	0.0	800.00	695.40	699.95	0.0	7.24	1158.23	1218.01	122.04	0.0
6815.000	50.00	0.0	0.0	1350.00	695.40	702.04	0.0	6.13	1124.97	1234.99	298.54	2.09
6815.000	50.00	0.0	0.0	1630.00	695.40	703.09	0.0	5.62	1108.25	1243.52	426.68	1.05
6815.000	50.00	0.0	0.0	2250.00	695.40	705.24	0.0	4.72	1085.21	1261.14	765.28	2.15
9970.000	3155.00	0.0	0.0	680.00	722.30	726.87	726.70	9.40	1241.26	1271.79	81.87	0.0
* 9970.000	3155.00	0.0	0.0	1180.00	722.30	728.39	728.39	10.07	1232.82	1313.19	165.06	1.52
* 9970.000	3155.00	0.0	0.0	1425.00	722.30	728.94	728.94	10.14	1223.44	1319.30	212.07	0.55
* 9970.000	3155.00	0.0	0.0	1980.00	722.30	729.77	729.77	10.58	1185.97	1328.49	317.78	0.83
LIMIT OF DETAILED STUDY STA. 9970												
14045.000	4075.00	0.0	0.0	450.00	752.40	757.73	0.0	6.50	1304.60	1332.31	72.81	0.0
14045.000	4075.00	0.0	0.0	780.00	752.40	758.80	0.0	8.36	1303.50	1345.53	110.03	1.07
14045.000	4075.00	0.0	0.0	970.00	752.40	759.12	758.75	9.51	1303.17	1349.54	124.37	0.32
14045.000	4075.00	0.0	0.0	1370.00	752.40	759.84	759.83	11.07	1302.44	1358.37	160.83	0.71
14095.000	50.00	0.0	0.0	450.00	753.20	757.83	0.0	7.95	1305.33	1323.65	56.71	0.0
14095.000	50.00	0.0	0.0	780.00	753.20	758.78	758.78	10.50	1304.35	1335.42	80.18	0.96
* 14095.000	50.00	0.0	0.0	970.00	753.20	759.55	759.55	10.54	1303.55	1344.94	108.03	0.77
* 14095.000	50.00	0.0	0.0	1370.00	753.20	760.64	760.64	11.07	1302.44	1358.37	160.83	1.09
14145.000	50.00	0.0	0.0	450.00	753.90	758.07	0.0	8.40	1680.48	1696.72	55.99	0.0
14145.000	50.00	0.0	0.0	780.00	753.90	759.18	759.18	11.03	1679.40	1706.64	78.60	1.11
* 14145.000	50.00	0.0	0.0	970.00	753.90	760.08	760.08	10.81	1678.52	1717.84	108.73	0.91
* 14145.000	50.00	0.0	0.0	1370.00	753.90	761.20	761.20	11.24	1677.44	1731.64	160.82	1.11
* 14340.000	195.00	779.10	764.90	450.00	758.90	762.64	0.0	9.46	1680.90	1696.37	49.18	0.0
* 14340.000	195.00	779.10	764.90	780.00	758.90	764.40	764.18	10.42	1679.19	1709.37	84.94	1.76
* 14340.000	195.00	779.10	764.90	970.00	758.90	765.10	765.08	10.76	1678.50	1718.07	109.44	0.70
* 14340.000	195.00	779.10	764.90	1370.00	758.90	769.39	0.0	4.94	1665.73	1771.22	405.36	4.29
14390.000	50.00	0.0	0.0	450.00	758.50	763.65	0.0	6.85	1304.80	1329.95	67.76	0.0
14390.000	50.00	0.0	0.0	780.00	758.50	765.60	0.0	6.90	1302.78	1354.19	142.73	1.95
14390.000	50.00	0.0	0.0	970.00	758.50	766.30	0.0	7.14	1302.07	1362.76	181.49	0.69
14390.000	50.00	0.0	0.0	1370.00	758.50	769.42	0.0	4.82	1285.10	1400.62	444.29	3.12

13960

14095

14045

14340

14390

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
14440.000	50.00	0.0	0.0	450.00	758.20	764.17	0.0	5.44	1303.95	1340.19	93.14	0.0
14440.000	50.00	0.0	0.0	780.00	758.20	766.01	0.0	5.71	1302.05	1363.01	182.72	1.84
14440.000	50.00	0.0	0.0	970.00	758.20	766.69	0.0	5.95	1301.34	1371.49	227.66	0.69
14440.000	50.00	0.0	0.0	1370.00	758.20	769.52	0.0	4.39	1279.78	1402.74	491.92	2.82
14740.000	300.00	0.0	0.0	440.00	759.00	765.09	0.0	5.04	1315.37	1336.71	87.26	0.0
14740.000	300.00	0.0	0.0	760.00	759.00	766.73	0.0	6.07	1297.10	1338.13	125.24	1.64
14740.000	300.00	0.0	0.0	930.00	759.00	767.38	0.0	6.42	1232.26	1341.00	169.60	0.65
14740.000	300.00	0.0	0.0	1320.00	759.00	769.79	0.0	4.11	1156.39	1351.70	563.60	2.41
* 15370.000	630.00	0.0	0.0	410.00	766.70	770.40	770.40	7.91	1000.76	1028.55	51.83	0.0
* 15370.000	630.00	0.0	0.0	720.00	766.70	771.28	771.28	9.35	1000.20	1029.76	77.01	0.88
* 15370.000	630.00	0.0	0.0	875.00	766.70	771.71	771.71	9.73	999.25	1030.35	89.97	0.43
* 15370.000	630.00	0.0	0.0	1240.00	766.70	772.63	772.63	10.17	993.12	1031.61	121.93	0.92
15420.000	50.00	0.0	0.0	410.00	767.30	771.35	0.0	6.65	1000.54	1029.03	61.61	0.0
15420.000	50.00	0.0	0.0	720.00	767.30	772.28	0.0	8.08	999.42	1030.32	89.16	0.93
15420.000	50.00	0.0	0.0	875.00	767.30	772.71	0.0	8.51	996.63	1030.89	102.80	0.43
15420.000	50.00	0.0	0.0	1240.00	767.30	773.58	0.0	9.15	990.84	1032.08	135.57	0.87
* 15470.000	50.00	0.0	0.0	410.00	769.50	773.16	773.16	8.29	1245.51	1277.49	56.56	0.0
* 15470.000	50.00	0.0	0.0	720.00	769.50	774.00	774.00	9.74	1243.50	1278.65	84.91	0.84
* 15470.000	50.00	0.0	0.0	875.00	769.50	774.36	774.36	10.29	1242.66	1279.14	97.67	0.36
* 15470.000	50.00	0.0	0.0	1240.00	769.50	775.11	775.11	11.27	1240.87	1280.18	126.28	0.76
* 15530.000	60.00	782.50	778.50	410.00	769.50	773.16	0.0	8.27	1245.50	1277.50	56.67	0.0
* 15530.000	60.00	782.50	778.50	720.00	769.50	774.24	0.0	8.86	1242.94	1278.98	93.30	1.08
15530.000	60.00	782.50	778.50	875.00	769.50	774.36	0.0	10.27	1242.65	1279.15	97.87	0.13
15530.000	60.00	782.50	778.50	1240.00	769.50	775.12	0.0	11.25	1240.85	1280.19	126.56	0.76
* 15580.000	50.00	0.0	0.0	410.00	776.10	778.85	778.85	8.23	1117.03	1141.14	49.84	0.0
* 15580.000	50.00	0.0	0.0	720.00	776.10	780.02	780.02	8.72	1099.15	1150.24	91.35	1.17
* 15580.000	50.00	0.0	0.0	875.00	776.10	780.45	780.45	8.93	1096.18	1162.22	116.40	0.43
* 15580.000	50.00	0.0	0.0	1240.00	776.10	781.21	781.21	9.47	1090.87	1183.63	177.11	0.76
* 15630.000	50.00	0.0	0.0	410.00	777.50	780.26	780.26	8.22	1117.03	1141.14	49.88	0.0
* 15630.000	50.00	0.0	0.0	720.00	777.50	781.43	781.43	8.71	1099.12	1150.34	91.54	1.17
* 15630.000	50.00	0.0	0.0	875.00	777.50	781.85	781.85	8.92	1096.16	1162.29	116.58	0.43
* 15630.000	50.00	0.0	0.0	1240.00	777.50	782.62	782.62	9.44	1090.81	1183.87	177.93	0.77
15710.000	80.00	0.0	0.0	240.00	778.50	781.63	0.0	1.75	1111.45	1235.70	193.20	0.0
15710.000	80.00	0.0	0.0	450.00	778.50	782.81	0.0	1.79	1109.40	1280.80	366.53	1.18
15710.000	80.00	0.0	0.0	560.00	778.50	783.24	0.0	1.86	1108.64	1297.38	444.13	0.43
15710.000	80.00	0.0	0.0	850.00	778.50	784.04	0.0	2.10	1106.57	1315.85	603.07	0.80
* 15760.000	50.00	0.0	0.0	240.00	780.80	782.38	782.38	5.68	1114.16	1179.18	48.18	0.0
* 15760.000	50.00	0.0	0.0	450.00	780.80	782.80	782.80	7.71	1113.43	1193.19	78.33	0.42
* 15760.000	50.00	0.0	0.0	560.00	780.80	783.03	783.03	8.01	1113.03	1201.07	97.63	0.23
15760.000	50.00	0.0	0.0	850.00	780.80	783.88	0.0	6.38	1111.53	1233.97	187.64	0.85
* 15810.000	50.00	0.0	0.0	240.00	784.40	787.44	787.44	8.94	1375.00	1386.00	26.84	0.0
* 15810.000	50.00	0.0	0.0	450.00	784.40	788.71	788.71	11.01	1375.00	1386.00	40.88	1.28
* 15810.000	50.00	0.0	0.0	560.00	784.40	789.30	789.30	11.84	1375.00	1386.00	47.31	0.59
* 15810.000	50.00	0.0	0.0	850.00	784.40	792.18	792.18	7.55	1321.51	1547.25	216.44	2.89

100.00 CORP. LIMIT LANDS

14440

14740

15470

15530

15580

15630

15710

15760

15810

SECNO	YLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
15843.000	33.00	790.90	789.60	240.00	784.40	787.44	0.0	8.91	1375.00	1386.00	26.94	0.0
15843.000	33.00	790.90	789.60	450.00	784.40	788.73	0.0	10.97	1375.00	1386.00	41.03	1.28
15843.000	33.00	790.90	789.60	560.00	784.40	788.95	0.0	12.85	1375.00	1386.00	43.59	0.23
15843.000	33.00	790.90	789.60	850.00	784.40	792.41	0.0	6.40	1311.79	1586.11	274.77	3.46
15893.000	50.00	0.0	0.0	240.00	784.00	788.81	0.0	0.77	1108.51	1300.21	458.97	0.0
15893.000	50.00	0.0	0.0	450.00	784.00	790.78	0.0	0.78	1102.39	1343.10	885.14	1.97
15893.000	50.00	0.0	0.0	560.00	784.00	791.77	0.0	0.78	1098.14	1364.65	1136.18	0.99
15893.000	50.00	0.0	0.0	850.00	784.00	792.86	0.0	0.95	1090.74	1388.31	1443.14	1.09
15943.000	50.00	0.0	0.0	240.00	784.80	788.81	0.0	1.09	1109.90	1269.72	318.81	0.0
15943.000	50.00	0.0	0.0	450.00	784.80	790.78	0.0	0.97	1105.05	1325.75	701.01	1.97
15943.000	50.00	0.0	0.0	560.00	784.80	791.77	0.0	0.93	1101.75	1347.29	931.97	0.99
15943.000	50.00	0.0	0.0	850.00	784.80	792.86	0.0	1.11	1096.17	1370.93	1214.41	1.09
17043.000	1100.00	0.0	0.0	129.00	800.60	803.53	803.53	7.43	1224.76	1235.11	17.35	0.0
17043.000	1100.00	0.0	0.0	255.00	800.60	804.59	804.59	8.51	1223.12	1236.65	29.96	1.06
17043.000	1100.00	0.0	0.0	330.00	800.60	805.07	805.07	8.98	1222.38	1237.34	36.74	0.48
17043.000	1100.00	0.0	0.0	520.00	800.60	806.04	806.04	9.87	1220.87	1238.75	52.70	0.97

*LANDS LIMITS*

SUMMARY OF ERRORS

- CAUTION SECNO= 975.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 975.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 975.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 975.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 975.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 975.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 975.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 975.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 975.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL
  
- CAUTION SECNO= 3565.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 3565.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 3565.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 3565.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 3565.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 3565.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 3565.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 3565.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 3565.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 3565.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 3565.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL
  
- CAUTION SECNO= 6615.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 6615.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 6615.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 6615.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 6615.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 6615.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 6615.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 6615.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 6615.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 6615.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION	SECNO=	PROFILE=	CRITICAL DEPTH ASSUMED
CAUTION	6665.000	2	CRITICAL DEPTH ASSUMED
CAUTION	6665.000	2	MINIMUM SPECIFIC ENERGY
CAUTION	6665.000	3	CRITICAL DEPTH ASSUMED
CAUTION	6665.000	3	MINIMUM SPECIFIC ENERGY
CAUTION	6665.000	4	CRITICAL DEPTH ASSUMED
CAUTION	6665.000	4	MINIMUM SPECIFIC ENERGY
CAUTION	6705.000	1	CRITICAL DEPTH ASSUMED
CAUTION	6705.000	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	6705.000	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	6705.000	2	CRITICAL DEPTH ASSUMED
CAUTION	6705.000	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	6705.000	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	6705.000	3	CRITICAL DEPTH ASSUMED
CAUTION	6705.000	3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	6705.000	3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	6705.000	4	CRITICAL DEPTH ASSUMED
CAUTION	6705.000	4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	6705.000	4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	9970.000	2	CRITICAL DEPTH ASSUMED
CAUTION	9970.000	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	9970.000	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	9970.000	3	CRITICAL DEPTH ASSUMED
CAUTION	9970.000	3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	9970.000	3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	9970.000	4	CRITICAL DEPTH ASSUMED
CAUTION	9970.000	4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	9970.000	4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	14095.000	2	CRITICAL DEPTH ASSUMED
CAUTION	14095.000	2	MINIMUM SPECIFIC ENERGY
CAUTION	14095.000	3	CRITICAL DEPTH ASSUMED
CAUTION	14095.000	3	MINIMUM SPECIFIC ENERGY
CAUTION	14095.000	4	CRITICAL DEPTH ASSUMED
CAUTION	14095.000	4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	14095.000	4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	14145.000	2	CRITICAL DEPTH ASSUMED
CAUTION	14145.000	2	MINIMUM SPECIFIC ENERGY
CAUTION	14145.000	3	CRITICAL DEPTH ASSUMED
CAUTION	14145.000	3	MINIMUM SPECIFIC ENERGY
CAUTION	14145.000	4	CRITICAL DEPTH ASSUMED
CAUTION	14145.000	4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	14145.000	4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	14340.000	1	WSEL ASSUMED BASED ON MIN DIFF
CAUTION	14340.000	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	14340.000	2	WSEL ASSUMED BASED ON MIN DIFF
CAUTION	14340.000	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	14340.000	2	HYDRAULIC JUMP D.S.
CAUTION	14340.000	3	WSEL ASSUMED BASED ON MIN DIFF
CAUTION	14340.000	3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	14340.000	3	HYDRAULIC JUMP D.S.
CAUTION	14340.000	4	HYDRAULIC JUMP D.S.
CAUTION	15370.000	1	CRITICAL DEPTH ASSUMED
CAUTION	15370.000	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	15370.000	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	15370.000	2	CRITICAL DEPTH ASSUMED
CAUTION	15370.000	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	15370.000	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	15370.000	3	CRITICAL DEPTH ASSUMED
CAUTION	15370.000	3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	15370.000	3	20 TRIALS ATTEMPTED TO BALANCE WSEL



CAUTION SECNO=15810.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=17043.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=17043.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=17043.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=17043.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=17043.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=17043.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=17043.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=17043.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=17043.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=17043.000 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=17043.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=17043.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL



FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10r	2c	0.2c
875.000	0.	-1.0	-0.3	0.5
925.000	50.	-1.0	-0.3	0.5
975.000	100.	-0.6	-0.5	1.1
993.000	118.	-0.6	-0.5	2.6
1043.000	168.	-2.2	-0.8	2.0
1093.000	218.	-2.2	-0.7	1.9
3565.000	2690.	-0.6	-0.1	0.3
6615.000	5740.	-1.5	-0.4	0.8
6665.000	5790.	-1.3	-0.4	0.8
6705.000	5830.	-2.1	-0.7	1.4
6725.000	5850.	-2.1	-0.7	1.4
6765.000	5890.	-3.5	-1.1	2.2
6815.000	5940.	-3.1	-1.1	2.2
9970.000	9095.	-2.1	-0.6	0.8
14045.000	13170.	-1.4	-0.3	0.7
14095.000	13220.	-1.7	-0.8	1.1
14145.000	13270.	-2.0	-0.9	1.1
14340.000	13465.	-2.5	-0.7	4.3
14390.000	13515.	-2.6	-0.7	3.1
14440.000	13565.	-2.5	-0.7	2.8
14740.000	13865.	-2.3	-0.6	2.4
15370.000	14495.	-1.3	-0.4	0.2
15420.000	14545.	-1.4	-0.4	0.9
15470.000	14595.	-1.2	-0.4	0.8
15530.000	14655.	-1.2	-0.1	0.8
15580.000	14705.	-1.5	-0.4	0.8
15630.000	14755.	-1.6	-0.4	0.8
15710.000	14835.	-1.6	-0.4	0.8
15760.000	14885.	-0.6	-0.2	0.9
15810.000	14935.	-1.9	-0.6	2.9
15843.000	14968.	-1.5	-0.2	3.5
15893.000	15018.	-3.0	-1.0	1.1
15943.000	15068.	-3.0	-1.0	1.1
17043.000	16168.	-1.5	-0.5	1.0
WEIGHTED AVG FOR REACH		-1.0	-0.5	1.1

FHF FOR THE REACH = 0.20 WITH 56.3% OF THE REACH WITHIN 0.5 FEET ZONE FOR THE REACH = A 4

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC TOTAL AVG ELEVATION DATA WTD. PERCENT

NO.	LENGTH	10C	1L	DIFF.	AVG.	FHF	WITHIN
1	100.	650.6	651.6	-1.0	-1.0	SEC. 010	675.000
2	200.	651.4	653.7	-2.3	-1.6	SEC. 015	100.
3	300.	651.7	653.9	-2.2	-1.8	SEC. 020	1093.000
4	400.	652.1	654.2	-2.1	-1.9	SEC. 020	67.
5	500.	652.5	654.6	-2.1	-1.9	SEC. 020	75.
6	600.	652.9	655.0	-2.1	-1.9	SEC. 020	80.
7	700.	653.4	655.3	-1.9	-2.0	SEC. 020	83.
8	800.	653.8	655.7	-1.9	-2.0	SEC. 020	86.
9	900.	654.2	656.1	-1.9	-2.0	SEC. 020	88.
10	1000.	654.6	656.4	-1.8	-1.9	SEC. 020	89.
11	1100.	655.1	656.8	-1.7	-1.9	SEC. 020	90.
12	1200.	655.5	657.2	-1.7	-1.9	SEC. 020	91.
13	1300.	655.9	657.5	-1.6	-1.9	SEC. 020	92.
14	1400.	656.4	657.9	-1.5	-1.9	SEC. 020	92.
15	1500.	656.8	658.3	-1.5	-1.8	SEC. 020	93.
16	1600.	657.2	658.7	-1.5	-1.8	SEC. 020	93.
17	1700.	657.6	659.0	-1.4	-1.8	SEC. 020	94.
18	1800.	658.1	659.4	-1.3	-1.8	SEC. 020	94.
19	1900.	658.5	659.8	-1.3	-1.7	SEC. 015	89.
20	2000.	658.9	660.1	-1.2	-1.7	SEC. 015	89.
21	2100.	659.3	660.5	-1.2	-1.7	SEC. 015	85.
22	2200.	659.8	660.9	-1.1	-1.7	SEC. 015	85.
23	2300.	660.2	661.2	-1.0	-1.6	SEC. 015	81.
24	2400.	660.6	661.6	-1.0	-1.6	SEC. 015	73.
25	2500.	661.1	662.0	-0.9	-1.6	SEC. 015	74.
26	2600.	661.5	662.3	-0.8	-1.5	SEC. 015	71.
27	2700.	661.9	662.7	-0.8	-1.5	SEC. 015	68.
28	2800.	662.3	663.1	-0.8	-1.5	SEC. 015	64.
29	2900.	662.7	663.5	-0.8	-1.5	SEC. 015	63.
30	3000.	663.1	664.0	-0.9	-1.5	SEC. 015	68.
31	3100.	663.5	664.7	-1.2	-1.5	SEC. 015	68.
32	3200.	664.0	665.4	-1.4	-1.5	SEC. 015	68.
33	3300.	664.5	666.1	-1.6	-1.5	SEC. 015	72.
34	3400.	665.0	666.8	-1.8	-1.5	SEC. 015	73.
35	3500.	665.5	667.5	-2.0	-1.5	SEC. 015	73.
36	3600.	666.0	668.2	-2.2	-1.5	SEC. 015	73.
37	3700.	666.5	668.9	-2.4	-1.5	SEC. 015	73.
38	3800.	667.0	669.6	-2.6	-1.5	SEC. 015	73.
39	3900.	667.5	670.3	-2.8	-1.5	SEC. 015	73.
40	4000.	668.0	671.0	-3.0	-1.5	SEC. 015	73.
41	4100.	668.5	671.7	-3.2	-1.5	SEC. 015	73.
42	4200.	669.0	672.4	-3.4	-1.5	SEC. 015	73.
43	4300.	669.5	673.1	-3.6	-1.5	SEC. 015	73.
44	4400.	670.0	673.8	-3.8	-1.5	SEC. 015	73.
45	4500.	670.5	674.5	-4.0	-1.5	SEC. 015	73.
46	4600.	671.0	675.2	-4.2	-1.5	SEC. 015	73.
47	4700.	671.5	675.9	-4.4	-1.5	SEC. 015	73.
48	4800.	672.0	676.6	-4.6	-1.5	SEC. 015	73.
49	4900.	672.5	677.3	-4.8	-1.5	SEC. 015	73.
50	5000.	673.0	678.0	-5.0	-1.5	SEC. 015	73.
51	5100.	673.5	678.7	-5.2	-1.5	SEC. 015	73.
52	5200.	674.0	679.4	-5.4	-1.5	SEC. 015	73.
53	5300.	674.5	680.1	-5.6	-1.5	SEC. 015	73.
54	5400.	675.0	680.8	-5.8	-1.5	SEC. 015	73.
55	5500.	675.5	681.5	-6.0	-1.5	SEC. 015	73.
56	5600.	676.0	682.2	-6.2	-1.5	SEC. 015	73.
57	5700.	676.5	682.9	-6.4	-1.5	SEC. 015	73.



117	11700.	746.2	747.9	-1.6	-1.6	020	49.
118	11800.	747.0	748.6	-1.6	-1.6	020	49.
119	11900.	747.7	749.3	-1.6	-1.8	020	50.
120	12000.	748.5	750.1	-1.6	-1.8	020	50.
121	12100.	749.3	750.8	-1.6	-1.8	020	51.
122	12200.	750.0	751.6	-1.6	-1.8	020	52.
123	12300.	750.8	752.3	-1.5	-1.8	020	52.
124	12400.	751.5	753.1	-1.5	-1.8	020	52.
125	12500.	752.3	753.8	-1.5	-1.8	020	52.
126	12600.	753.0	754.5	-1.5	-1.8	020	52.
127	12700.	753.8	755.3	-1.5	-1.8	020	53.
128	12800.	754.6	756.0	-1.5	-1.8	020	53.
129	12900.	755.3	756.8	-1.4	-1.8	020	53.
130	13000.	756.1	757.5	-1.4	-1.8	020	54.
131	13100.	756.8	758.2	-1.4	-1.8	020	54.
	13170.					SEC. 14045,000	
132	13200.	757.5	759.0	-1.5	-1.8	020	55.
	13220.					SEC. 14095,000	
	13270.					SEC. 14145,000	
133	13300.	758.4	760.5	-2.0	-1.8	020	55.
134	13400.	759.9	762.1	-2.2	-1.8	020	54.
	13465.					SEC. 14340,000	
135	13500.	762.2	764.7	-2.5	-1.8	020	55.
	13515.					SEC. 14390,000	
	13565.					SEC. 14440,000	
136	13600.	764.2	766.7	-2.5	-1.8	020	54.
137	13700.	764.4	766.9	-2.5	-1.8	020	55.
138	13800.	764.7	767.1	-2.4	-1.8	020	54.
	13865.					SEC. 14740,000	
139	13900.	765.1	767.4	-2.3	-1.8	020	54.
140	14000.	765.8	768.0	-2.2	-1.8	020	54.
141	14100.	766.7	768.4	-2.0	-1.8	020	55.
142	14200.	767.5	769.3	-1.8	-1.8	020	55.
143	14300.	768.3	770.0	-1.7	-1.8	020	55.
144	14400.	769.2	770.7	-1.5	-1.8	020	56.
	14495.					SEC. 15370,000	
145	14500.	770.1	771.4	-1.4	-1.8	020	57.
	14545.					SEC. 15420,000	
	14595.					SEC. 15470,000	
146	14600.	773.2	774.4	-1.2	-1.8	020	56.
	14655.					SEC. 15530,000	
147	14700.	775.7	777.1	-1.4	-1.8	020	56.
	14705.					SEC. 15580,000	
	14755.					SEC. 15630,000	
148	14800.	780.6	782.2	-1.6	-1.8	020	57.
	14835.					SEC. 15710,000	
	14885.					SEC. 15760,000	
149	14900.	783.1	784.0	-0.9	-1.8	020	56.
	14935.					SEC. 15810,000	
	14968.					SEC. 15843,000	
150	15000.	787.9	789.9	-2.0	-1.8	020	56.
	15018.					SEC. 15893,000	
	15060.					SEC. 15943,000	
151	15100.	789.0	792.0	-2.9	-1.8	020	56.
152	15200.	789.9	792.8	-2.9	-1.8	020	55.
153	15300.	791.2	794.0	-2.7	-1.8	020	55.
154	15400.	792.6	795.2	-2.6	-1.8	020	55.
155	15500.	793.9	796.8	-2.5	-1.8	020	54.
156	15600.	795.3	797.6	-2.3	-1.8	020	54.
157	15700.	796.6	798.8	-2.2	-1.8	020	54.
158	15800.	797.9	800.0	-2.1	-1.8	020	54.
159	15900.	799.3	801.2	-1.9	-1.8	020	54.
160	16000.	800.6	802.4	-1.8	-1.8	020	54.
161	16100.	802.0	803.6	-1.7	-1.8	020	55.
	16168.					SEC. 17043,000	

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS  
INPUT 20N WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END  
OF EACH REACH BY INC NO. FOR EXAMPLE 202 58 161  
A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

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

EU

# FLOODWAY

1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901

ROWAN CO.  
BASIN A  
STREAM 2-1L  
BEAVER CREEK \*\*\*

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123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901

PROGRAMMER=MAK ACCOUNT=RTI.A25.P0307A

JOB TURN-AROUND JOB PARAMETERS TIME USED INCLUDES MISC. JOB VALUES

	DATE	TIME	SPECIFIED	USED	NO.	EQUIVALENT		
ENTERED	6/03/77	10:45:27.6	TIME	2:00.0	0:20.3	CPU	0:08.5	LINES IN 200
EXECUTED	6/03/77	11:17:02.8	PAGES	200	35	UR EXCPS	1991	0:08.0 LINES OUT 1720
RETURNED	6/06/77	14:22:24.3	CARDS	0	0	DISK EXCPS	292	0:09.8 MEMORY TIME 10160 K-SEC
JOB ENTERED ON	FRIDAY		PLOTS	0	0	TAPE READ-WRITE	0:00.0	PRIORITY 01
						TAPE FILE SEARCH	0:00.0	APPROX. COST \$6.93

## JOB CONSOLE LOG

N 11.12.21 JOB 10 -- RMAK04 -- JCL INTERPRETED, IUCC CPU #2  
N 11.17.00 JOB 10 -- RMAK04 -- BEGINNING EXEC - INIT 3 - CLAS  
L 11.17.02 JOB 10 ++++S=153,T=02,J=RMAK04 11:17:02 MAK  
N 11.17.19 JOB 10 END EXECUTION.

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

C  
 1 LANDIS-ROWAN CO. BASIN E-A STRM 2-1L BEAVER CREEK  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	IRG	NINR	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-1.	4.	0.	0.	0.0	0.0	0.0	0.	651.240	0.0
J2	MPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	0.0	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	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
BT	5.000	1125.000	1875.000	2225.000	3050.000	2225.000	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	875.000	16.000	1434.000	1465.000	875.000	875.000	875.000	0.0	0.0	0.0
GR	660.200	1000.000	658.700	1100.000	659.300	1150.000	653.900	1200.000	647.900	1300.000
GR	649.500	1400.000	651.100	1434.000	647.200	1441.000	647.000	1449.000	645.000	1457.000
GR	650.400	1465.000	651.200	1500.000	656.600	1600.000	662.400	1700.000	667.000	1800.000
GR	668.100	1827.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-5.400	0.0	0.0	0.0	0.0
X1	925.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	975.000	15.000	1400.000	1440.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	665.300	1000.000	662.400	1100.000	658.500	1200.000	656.000	1300.000	655.500	1400.000
GR	645.200	1400.000	645.500	1410.000	646.700	1431.000	649.300	1433.000	649.800	1440.000
GR	655.500	1440.000	655.900	1500.000	658.300	1600.000	662.400	1700.000	668.000	1800.000
SB	0.900	1.500	2.500	0.0	40.000	0.010	256.000	0.0	0.0	0.0
X1	993.000	0.0	0.0	0.0	18.000	18.000	18.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	653.000	655.500	0.0	0.0	0.0	0.0	0.0
BT	10.000	1000.000	665.300	0.0	1100.000	662.400	0.0	1200.000	658.500	0.0
BT	1300.000	656.000	0.0	1400.000	655.500	653.000	1440.000	655.500	652.900	1500.000
BT	659.900	0.0	1600.000	658.300	0.0	1700.000	662.400	0.0	1800.000	668.000
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	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	1043.000	16.000	1434.000	1465.000	50.000	50.000	50.000	0.0	0.400	0.0
GR	660.200	1000.000	658.700	1100.000	659.300	1150.000	653.900	1200.000	647.900	1300.000
GR	649.500	1400.000	651.100	1434.000	647.200	1441.000	647.000	1449.000	645.000	1457.000
GR	650.400	1465.000	651.200	1500.000	656.600	1600.000	662.400	1700.000	667.000	1800.000
GR	668.100	1827.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	1093.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200	0.0
BT	5.000	1050.000	1725.000	2100.000	2800.000	2100.000	0.0	0.0	0.0	0.0

X1	3565.000	16.000	1228.000	1255.000	2472.000	2472.000	2472.000	0.0	0.0	0.0
GR	677.000	1000.000	668.300	1100.000	661.300	1178.000	661.000	1200.000	661.900	1228.000
GR	656.500	1232.000	656.600	1239.000	657.100	1250.000	661.300	1255.000	662.500	1300.000
GR	661.600	1400.000	661.300	1500.000	661.700	1516.000	667.900	1536.000	672.300	1600.000
GR	673.300	1615.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	800.000	1350.000	1630.000	2250.000	1630.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1142.000	1226.000	0.0	0.0

X1	6615.000	9.000	1164.000	1202.000	3050.000	3050.000	3050.000	0.0	-2.800	0.0
GR	714.300	1000.000	703.200	1100.000	699.200	1164.000	696.800	1177.000	695.000	1187.000
GR	696.800	1197.000	697.600	1202.000	709.600	1300.000	714.300	1345.000	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	6665.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.600	0.0
NC	0.050	0.050	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1142.000	1226.000	0.0	0.0

X1	6705.000	14.000	1200.000	1230.000	40.000	40.000	40.000	0.0	0.0	0.0
GR	720.800	1000.000	711.800	1100.000	704.200	1150.000	705.800	1200.000	797.200	1200.000
GR	656.000	1209.000	695.200	1212.000	693.900	1220.000	694.200	1230.000	705.800	1230.000
GR	708.000	1300.000	713.200	1400.000	718.600	1500.000	720.800	1524.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	30.000	0.010	251.000	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	6725.000	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	703.200	705.800	0.0	0.0	0.0	0.0	0.0
BT	9.000	1000.000	720.800	0.0	1100.000	711.800	0.0	1150.000	704.200	0.0
BT	1200.000	705.800	703.200	1230.000	705.800	703.200	1300.000	708.000	0.0	1400.000
BT	713.200	0.0	1500.000	718.600	0.0	1524.000	720.800	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1160.000	1200.000	0.0	0.0

X1	6765.000	9.000	1164.000	1202.000	40.000	40.000	40.000	0.0	0.0	0.0
GR	714.300	1000.000	703.200	1100.000	699.200	1164.000	696.800	1177.000	695.000	1187.000
GR	696.800	1197.000	697.600	1202.000	709.600	1300.000	714.300	1345.000	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1160.000	1200.000	0.0	0.0

X1	6815.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.400	0.0
QT	5.000	680.000	1180.000	1425.000	1980.000	1425.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1250.000	1290.000	0.0	0.0

X1	9970.000	13.000	1254.000	1273.000	3155.000	3155.000	3155.000	0.0	0.0	0.0
GR	742.300	1000.000	733.900	1100.000	729.100	1200.000	720.900	1230.000	725.300	1250.000
GR	724.500	1254.000	722.300	1256.000	722.400	1261.000	722.400	1267.000	728.000	1273.000
GR	727.200	1300.000	730.000	1331.000	740.000	1556.000	0.0	0.0	0.0	0.0
QT	5.000	450.000	750.000	970.000	1370.000	970.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-2.400	0.0	0.0	0.0	0.0

X1	14045.000	10.000	1300.000	1322.000	4075.000	4075.000	4075.000	0.0	-5.800	0.0
GR	785.000	1000.000	779.500	1100.000	775.500	1200.000	768.000	1300.000	758.300	1310.000
GR	758.200	1314.000	758.300	1318.000	762.700	1322.000	769.000	1400.000	785.000	1485.000

X1	14095.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.800	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	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	14145.000	19.000	1682.500	1695.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	793.500	1000.000	788.000	1100.000	786.400	1200.000	782.800	1300.000	780.600	1375.000
GR	775.200	1475.000	771.200	1575.000	763.700	1675.000	756.000	1682.500	753.900	1682.500
GR	753.900	1695.000	756.000	1695.000	758.400	1697.000	754.700	1775.000	780.700	1860.000
GR	782.500	1900.000	786.000	2000.000	790.000	2100.000	793.500	2180.000	0.0	0.0
SB	1.250	1.500	2.500	0.0	12.500	0.500	72.000	0.0	0.0	0.0

X1	14340.000	19.000	1682.500	1695.000	195.000	195.000	195.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	764.900	779.100	0.0	0.0	0.0	0.0	0.0
GR	800.700	1000.000	785.000	1100.000	786.400	1200.000	782.800	1300.000	780.600	1375.000

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BT	15.000	1000.000	773.500	0.0	1100.000	788.000	0.0	1200.000	786.400	0.0
BT	1300.000	782.800	0.0	1400.000	760.600	0.0	1500.000	779.600	0.0	1600.000
BT	779.100	0.0	1682.500	779.200	764.900	1695.000	779.200	764.900	1700.000	779.200
BT	0.0	1800.000	779.100	0.0	1900.000	782.500	0.0	2000.000	786.000	0.0
BT	2100.000	790.000	0.0	2180.000	793.500	0.0	0.0	0.0	0.0	0.0
GR	793.500	1000.000	788.000	1100.000	786.400	1200.000	782.800	1300.000	780.600	1400.000
GR	779.700	1490.000	776.200	1575.000	768.700	1675.000	761.000	1682.500	758.900	1682.500
GR	758.900	1695.000	761.000	1695.000	763.400	1697.000	769.700	1775.000	780.200	1832.000
GR	782.500	1900.000	786.000	2000.000	790.000	2100.000	793.500	2180.000	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1305.000	1360.000	0.0	0.0

X1	14390.000	10.000	1300.000	1322.000	50.000	50.000	50.000	0.0	0.300	0.0
GR	785.000	1000.000	779.500	1100.000	775.500	1200.000	768.000	1300.000	758.300	1310.000
GR	758.200	1314.000	758.300	1318.000	762.700	1322.000	769.000	1400.000	785.000	1485.000
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	14440.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	-0.300	0.0
BT	5.000	440.000	760.000	930.000	1320.000	930.000	0.0	0.0	0.0	0.0

X1	14740.000	11.000	1312.000	1338.000	300.000	300.000	300.000	0.0	0.0	0.0
GR	782.600	1000.000	772.500	1100.000	767.700	1200.000	766.700	1300.000	767.400	1312.000
GR	759.200	1324.000	759.000	1328.000	759.200	1332.000	766.700	1338.000	780.700	1400.000
GR	782.600	1410.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BT	5.000	410.000	720.000	875.000	1240.000	875.000	0.0	0.0	0.0	0.0

X1	15370.000	13.000	980.000	1035.000	630.000	630.000	630.000	0.0	-0.600	0.0
GR	785.900	900.000	777.400	980.000	773.700	990.000	772.200	1000.000	767.500	1003.000
GR	767.300	1006.000	767.800	1008.000	769.800	1018.000	770.600	1028.000	775.700	1035.000
GR	779.100	1100.000	781.700	1200.000	785.200	1300.000	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	15420.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.600	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	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	15470.000	16.000	1248.500	1261.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	792.900	1000.000	785.300	1100.000	782.700	1200.000	779.600	1229.000	775.900	1239.000
GR	771.900	1248.500	770.900	1248.500	770.500	1255.000	769.500	1261.500	770.500	1261.500
GR	772.000	1267.000	772.800	1277.000	777.900	1284.000	781.300	1349.000	789.100	1400.000
GR	792.900	1459.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	13.000	0.010	84.000	0.0	0.0	0.0

X1	15530.000	0.0	0.0	0.0	60.000	60.000	60.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	778.500	782.500	0.0	0.0	0.0	0.0	0.0
BT	19.000	1000.000	792.900	0.0	1100.000	785.300	0.0	1200.000	782.700	0.0
BT	1248.500	782.500	771.900	1249.000	782.500	773.700	1250.000	782.500	775.500	1251.000
BT	782.500	776.800	1252.000	782.500	777.600	1253.000	782.500	778.000	1255.000	782.500
BT	778.500	1257.000	782.500	778.200	1258.000	782.500	777.800	1259.000	782.500	777.200
BT	1260.000	782.500	776.200	1261.000	782.500	773.800	1261.500	782.500	770.500	1300.000
BT	782.200	0.0	1400.000	789.100	0.0	1459.000	792.900	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1100.000	1160.000	0.0	0.0

X1	15580.000	10.000	1117.000	1144.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	794.300	1000.000	779.900	1100.000	778.900	1117.000	776.300	1119.000	776.100	1125.000
GR	776.500	1134.000	779.200	1144.000	781.800	1200.000	788.500	1300.000	794.300	1329.000
ET	5.000	0.0	0.0	0.0	0.0	7.100	1100.000	1160.000	0.0	0.0

X1	15630.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.400	0.0
BT	5.000	240.000	450.000	560.000	850.000	560.000	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	15710.000	11.000	1108.000	1126.000	80.000	80.000	80.000	0.0	0.0	0.0
GR	400.700	1000.000	786.000	1100.000	783.600	1108.000	779.600	1115.000	779.700	1118.000

GR	779,900	1122,000	778,500	1126,000	780,700	1200,000	783,300	1300,000	787,900	1400,000
GR	800,700	1469,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	15760,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	2,300	0.0
NC	0,060	0,060	0,040	0,100	0,300	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	15810,000	14,000	1375,000	1386,000	50,000	50,000	50,000	0.0	0.0	0.0
GR	805,900	1000,000	801,800	1100,000	797,500	1200,000	792,700	1300,000	790,900	1375,000
GR	785,700	1375,000	785,000	1380,000	784,400	1386,000	790,900	1386,000	790,900	1400,000
GR	791,900	1500,000	792,500	1600,000	795,200	1700,000	800,300	1800,000	0.0	0.0
SB	0,900	1,500	2,500	0.0	11,000	0,010	51,000	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	15843,000	0.0	0.0	0.0	33,000	33,000	33,000	0.0	0.0	0.0
X2	0.0	0.0	1,000	789,600	790,900	0.0	0.0	0.0	0.0	0.0
BT	11,000	1000,000	805,900	0.0	1100,000	801,800	0.0	1200,000	797,500	0.0
BT	1300,000	792,700	0.0	1375,000	790,900	789,600	1386,000	790,900	789,600	1400,000
BT	791,000	0.0	1500,000	791,900	0.0	1600,000	792,500	0.0	1700,000	795,200
BT	0.0	1800,000	800,300	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0,055	0,055	0,035	0,100	0,300	0.0	0.0	0.0	0.0	0.0
ET	5,000	0.0	0.0	0.0	0.0	7,100	1100,000	1135,000	0.0	0.0

X1	15893,000	11,000	1108,000	1126,000	50,000	50,000	50,000	0.0	5,500	0.0
GR	800,700	1000,000	786,000	1100,000	783,600	1108,000	779,600	1115,000	779,700	1118,000
GR	779,900	1122,000	778,500	1126,000	780,700	1200,000	783,300	1300,000	787,900	1400,000
GR	800,700	1469,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	5,000	0.0	0.0	0.0	0.0	7,100	1105,000	1340,000	0.0	0.0

X1	15943,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	0,800	0.0
BT	5,000	129,000	255,000	330,000	520,000	730,000	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	17043,000	12,000	1220,000	1240,000	1100,000	1100,000	1100,000	0.0	0.0	0.0
GR	825,100	1000,000	814,900	1100,000	807,900	1200,000	806,600	1220,000	800,800	1229,000
GR	800,600	1230,000	800,700	1231,000	806,900	1240,000	812,300	1300,000	815,600	1400,000
GR	819,900	1500,000	822,500	1540,000	0.0	0.0	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

MADE IN U.S.A.

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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 LANDIS-ROWAN CO. BASIN E-A STRM 2-1L BEAVER CREEK  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOODWAY

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS 0 WSEL EQ  
 -10. 6. 0. 0. 0.0 0.0 0.0 0. 652.240 0.0  
 J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE  
 15.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

CCHV= 0.100 CEHV= 0.300  
 2800 NAT Q1= 288.81 WSEL= 651.24 ENC Q1= 288.81 WSEL= 652.24 RATIO= 0.0  
 NAT Q1= 510. RATIOS LOB,CH,ROB= 0.6295 0.3330 0.0375 WSEL= 652.24

SECNO	DEPTH	WSEL	CRWS	WSELK	EG	HV	HL	DLOSS	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	COPAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 1361.8 1478.5 TYPE= 4 TARGET= 0.433  
 875.00 7.24 652.24 0.0 651.24 653.10 0.94 0.0 0.0 651.10  
 2225. 766. 1388. 71. 182. 149. 23. 0. 0. 650.40  
 0.0 4.20 9.31 3.13 0.055 0.035 0.055 0.0 645.00 1361.84  
 0.006666 875. 875. 875. 0 0 1 0.0 116.66 1478.50

2800 NAT Q1= 341.57 WSEL= 651.61 ENC Q1= 341.57 WSEL= 652.11 RATIO= 0.0  
 NAT Q1= 452. RATIOS LOB,CH,ROB= 0.6239 0.3455 0.0306 WSEL= 652.11

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 1322.3 1488.4 TYPE= 4 TARGET= 0.245  
 925.00 8.05 653.15 0.0 651.61 653.40 0.26 0.16 0.07 651.20  
 2225. 1175. 936. 114. 417. 174. 56. 1. 0. 650.50  
 0.00 2.82 5.38 2.05 0.055 0.035 0.055 0.034 645.10 1322.30  
 0.001818 50. 50. 50. 3 0 1 0.0 166.11 1488.41

CCHV= 0.100 CEHV= 0.300

IHC209I IBCCM - PROGRAM INTERRUPT (P) - DIVIDE CHECK OLD PSW IS FFB5000F420BA27C , REGISTER CONTAINED 0000000000000000

TRACEBACK ROUTINE CALLED FROM ISM REG. 14 REG. 15 REG. 0 REG. 1

MAIN 00011E1A 010833C0 F000000A 000FF7F8

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	TO	EG	TOPWID	STENCL	STENCR	VCH	
A	875.00	875.00	0.0	0.0	645.00	2225.00	651.24	288.81	651.70	256.42	0.0	0.0	7.51
	875.00	875.00	0.0	0.0	645.00	2225.00	652.24	272.07	653.18	116.66	1361.84	1478.50	9.31
	925.00	50.00	0.0	0.0	645.10	2225.00	651.61	341.57	651.96	265.91	0.0	0.0	6.65
	925.00	50.00	0.0	0.0	645.10	2225.00	653.15	522.62	653.40	166.11	1322.30	1488.41	5.38
NCSR 1238	975.00	50.00	0.0	0.0	645.20	2225.00	651.16	162.93	653.48	40.00	0.0	0.0	12.23
	975.00	50.00	0.0	0.0	645.20	2225.00	652.54	243.95	653.91	40.00	1400.00	1440.00	9.39
	993.00	10.00	0.0	0.0	645.20	2225.00	651.17	163.16	653.48	40.00	0.0	0.0	12.21
	993.00	10.00	0.0	0.0	645.20	2225.00	652.54	244.25	653.91	40.00	1400.00	1440.00	9.38
	1043.00	50.00	0.0	0.0	645.40	2225.00	653.72	828.63	653.80	329.85	0.0	0.0	3.50
	1043.00	50.00	0.0	0.0	645.40	2225.00	653.96	631.58	654.15	169.71	1324.36	1494.07	4.72
B	1093.00	50.00	0.0	0.0	645.60	2225.00	653.75	770.10	653.85	323.52	0.0	0.0	3.69
	1093.00	50.00	0.0	0.0	645.60	2225.00	654.00	582.24	654.23	165.35	1327.43	1492.78	5.03
C	3565.00	2472.00	0.0	0.0	656.50	2100.00	662.85	283.34	663.58	359.04	0.0	0.0	8.67
	3565.00	2472.00	0.0	0.0	656.50	2100.00	663.62	253.71	665.09	96.41	1215.90	1312.31	10.60
D	6615.00	3050.00	0.0	0.0	692.20	1630.00	697.81	165.97	699.25	85.27	0.0	0.0	10.09
	6615.00	3050.00	0.0	0.0	692.20	1630.00	697.89	173.11	699.24	84.00	1142.00	1226.00	9.81
	6665.00	50.00	0.0	0.0	692.80	1630.00	698.42	166.76	699.85	85.50	0.0	0.0	10.06
	6665.00	50.00	0.0	0.0	692.80	1630.00	698.39	144.69	700.37	38.00	1164.00	1202.00	11.27
NCSR 1322	6705.00	40.00	0.0	0.0	693.90	1630.00	700.16	109.77	703.00	21.37	0.0	0.0	13.53
	6705.00	40.00	0.0	0.0	693.90	1630.00	701.08	102.33	704.35	17.45	1142.00	1226.00	14.50
	6725.00	20.00	705.80	703.20	693.90	1630.00	700.17	109.99	703.00	21.37	0.0	0.0	13.51
	6725.00	20.00	705.80	703.20	693.90	1630.00	701.17	138.56	704.35	21.46	0.0	0.0	11.48
E	6765.00	40.00	0.0	0.0	695.00	1630.00	703.07	456.31	703.39	144.67	0.0	0.0	5.11
	6765.00	40.00	0.0	0.0	695.00	1630.00	704.12	391.14	704.65	40.00	1160.00	1200.00	5.91
	6815.00	50.00	0.0	0.0	695.40	1630.00	703.09	397.92	703.48	135.27	0.0	0.0	5.62
	6815.00	50.00	0.0	0.0	695.40	1630.00	704.18	362.41	704.76	40.00	1160.00	1200.00	6.21
F	9970.00	3155.00	0.0	0.0	722.30	1425.00	728.94	169.09	730.19	95.86	0.0	0.0	10.14
	9970.00	3155.00	0.0	0.0	722.30	1425.00	728.95	144.90	730.23	40.00	1250.00	1290.00	11.84
LIMIT OF DETAILED STUDY 0910	14045.00	4075.00	0.0	0.0	752.40	970.00	759.12	109.05	760.42	46.37	0.0	0.0	9.51
	14045.00	4075.00	0.0	0.0	752.40	970.00	759.90	134.94	760.88	27.45	1300.00	1329.83	8.22
	14095.00	50.00	0.0	0.0	753.20	970.00	759.53	94.32	761.18	41.15	0.0	0.0	10.59
	14095.00	50.00	0.0	0.0	753.20	970.00	759.64	92.04	761.51	18.54	1300.00	1322.00	10.97
	14145.00	50.00	0.0	0.0	753.90	970.00	760.08	148.21	761.69	39.33	0.0	0.0	10.81
	14145.00	50.00	0.0	0.0	753.90	970.00	759.60	97.76	762.48	12.50	1682.50	1695.00	13.62
	14340.00	195.00	779.10	764.90	758.90	970.00	763.21	155.64	766.69	41.06	0.0	0.0	10.43

MADE IN U.S.A.

14340.00 195.00 779.10 764.90 758.90 970.00 766.21 225.91 766.99 54.40 0.0 0.0 7.93

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
14390.00	50.00	0.0	0.0	750.50	970.00	766.27	158.04	766.96	60.42	0.0	0.0	7.17
14390.00	50.00	0.0	0.0	758.50	970.00	766.51	168.35	767.13	55.00	1305.00	1360.00	6.91
<del>14440.00</del>	50.00	0.0	0.0	750.20	970.00	766.68	200.01	767.13	69.95	0.0	0.0	5.97
<del>14440.00</del>	50.00	0.0	0.0	758.20	970.00	766.54	159.37	767.36	23.26	1300.00	1324.77	7.41
14740.00	300.00	0.0	0.0	759.00	930.00	767.37	165.06	768.00	107.27	0.0	0.0	6.43
14740.00	300.00	0.0	0.0	759.00	930.00	767.74	179.16	768.33	26.00	1312.00	1338.00	6.15
15370.00	630.00	0.0	0.0	766.70	875.00	771.71	72.28	773.18	31.10	0.0	0.0	9.73
15370.00	630.00	0.0	0.0	766.70	875.00	771.73	72.92	773.18	31.27	980.00	1035.00	9.66
15420.00	50.00	0.0	0.0	767.30	875.00	772.71	85.01	773.83	34.27	0.0	0.0	8.51
15420.00	50.00	0.0	0.0	767.30	875.00	772.70	85.16	773.83	34.31	980.00	1035.00	8.50
15470.00	50.00	0.0	0.0	769.50	875.00	774.36	115.67	775.72	36.49	0.0	0.0	10.28
15470.00	50.00	0.0	0.0	769.50	875.00	775.05	108.45	777.32	16.18	1247.23	1263.33	12.18
15530.00	60.00	782.50	778.50	769.50	875.00	774.37	115.02	775.72	36.51	0.0	0.0	10.26
15530.00	60.00	782.50	778.50	769.50	875.00	775.37	187.29	777.32	40.26	0.0	0.0	7.37
15580.00	50.00	0.0	0.0	776.10	875.00	780.45	89.87	781.61	66.04	0.0	0.0	8.93
15580.00	50.00	0.0	0.0	776.10	875.00	780.45	89.67	781.62	60.00	1100.00	1160.00	8.95
15630.00	50.00	0.0	0.0	777.50	875.00	781.85	90.01	783.01	66.14	0.0	0.0	8.92
15630.00	50.00	0.0	0.0	777.50	875.00	781.85	89.90	783.02	60.00	1100.00	1160.00	8.93
15710.00	80.00	0.0	0.0	778.50	560.00	783.24	254.53	783.27	188.73	0.0	0.0	1.86
15710.00	80.00	0.0	0.0	778.50	560.00	783.27	187.68	783.34	70.23	1106.92	1178.81	2.54
15760.00	50.00	0.0	0.0	780.80	560.00	783.03	30.63	783.58	88.04	0.0	0.0	8.01
15760.00	50.00	0.0	0.0	780.80	560.00	783.85	36.48	785.03	28.11	1108.50	1139.69	9.21
15810.00	50.00	0.0	0.0	784.40	560.00	789.30	31.66	791.47	11.00	0.0	0.0	11.84
15810.00	50.00	0.0	0.0	784.40	560.00	789.29	31.62	791.47	11.00	1375.00	1386.00	11.85
15843.00	33.00	0.0	0.0	784.40	560.00	789.95	28.27	791.52	11.00	0.0	0.0	12.85
15843.00	33.00	0.0	0.0	784.40	560.00	789.30	31.72	791.47	11.00	1375.00	1386.00	11.82
15893.00	50.00	0.0	0.0	784.00	560.00	791.77	955.37	791.78	266.50	0.0	0.0	0.78
15893.00	50.00	0.0	0.0	784.00	560.00	791.62	208.45	791.78	35.00	1100.00	1135.00	3.50
15943.00	50.00	0.0	0.0	784.80	560.00	791.77	725.32	791.78	245.54	0.0	0.0	0.93
15943.00	50.00	0.0	0.0	784.80	560.00	791.80	732.58	791.80	235.00	1105.00	1340.00	0.92
17043.00	1100.00	0.0	0.0	800.60	330.00	805.07	25.48	806.32	14.96	0.0	0.0	8.98
17043.00	1100.00	0.0	0.0	800.60	330.00	805.06	25.46	806.32	14.95	1220.00	1240.00	8.99

1490 Jandos Corp. Limited

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH @	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
875.000	2225.000	651.240	0.0	0.0	0.0	256.418	0.0	875.000
875.000	2225.000	652.240	1.000	0.0	0.0	116.659	139.759	875.000
925.000	2225.000	651.608	0.0	0.369	0.0	265.909	0.0	50.000
925.000	2225.000	653.147	1.538	0.907	0.0	166.111	99.798	50.000
975.000	2225.000	651.161	0.0	-0.448	0.0	40.000	0.0	50.000
975.000	2225.000	652.538	1.377	-0.609	0.0	40.000	0.0	50.000

MADE IN U.S.A.

993.000	2225.000	651,165	0.0	0.004	0.0	40,000	0.0	18,000
993.000	2225.000	652,542	1,377	0.004	0.0	40,000	0.0	18,000
1043.000	2225.000	653,717	0.0	2,552	0.0	329,848	0.0	50,000
1043.000	2225.000	653,958	0,241	1,417	0.0	169,708	160,140	50,000
1093.000	2225.000	653,749	0.0	0,031	0.0	323,518	0.0	50,000
1093.000	2225.000	654,004	0,256	0,046	0.0	155,354	158,164	50,000
3565.000	2100.000	662,853	0.0	9,104	0.0	359,038	0.0	2472,000
3565.000	2100.000	663,619	0,766	9,615	0.0	96,409	262,629	2472,000
6615.000	1630.000	697,814	0.0	34,961	0.0	85,270	0.0	3050,000
6615.000	1630.000	697,892	0,078	34,273	0.0	83,999	1,271	3050,000
6665.000	1630.000	698,424	0.0	0,609	0.0	85,500	0.0	50,000
6665.000	1630.000	698,395	-0,029	0,503	0.0	38,001	47,499	50,000
6705.000	1630.000	700,160	0.0	1,737	0.0	21,370	0.0	40,000
6705.000	1630.000	701,083	0,923	2,688	0.0	17,451	3,919	40,000
6725.000	1630.000	700,168	0.0	0,007	0.0	21,371	0.0	20,000
6725.000	1630.000	701,167	0,999	0,084	0.0	21,460	-0,089	20,000
6765.000	1630.000	703,073	0.0	2,905	0.0	144,673	0.0	40,000
6765.000	1630.000	704,121	1,048	2,954	0.0	39,999	104,674	40,000
6815.000	1630.000	703,093	0.0	0,020	0.0	155,270	0.0	50,000
6815.000	1630.000	704,176	1,083	0,055	0.0	39,999	95,271	50,000
9970.000	1425.000	728,943	0.0	25,850	0.0	95,859	0.0	3155,000
9970.000	1425.000	728,953	0,010	24,777	0.0	39,999	55,860	3155,000
14045.000	970.000	759,124	0.0	30,181	0.0	46,375	0.0	4075,000
14045.000	970.000	759,896	0,772	30,943	0.0	27,449	18,926	4075,000
14095.000	970.000	759,534	0.0	0,410	0.0	41,152	0.0	50,000
14095.000	970.000	759,641	0,107	-0,255	0.0	18,540	22,612	50,000
14145.000	970.000	760,084	0.0	0,549	0.0	39,335	0.0	50,000
14145.000	970.000	759,597	-0,486	-0,044	0.0	12,501	26,834	50,000
14340.000	970.000	765,213	0.0	5,129	0.0	41,063	0.0	195,000
14340.000	970.000	766,212	0,999	6,615	0.0	54,405	-13,342	195,000
14390.000	970.000	766,274	0.0	1,061	0.0	60,420	0.0	50,000
14390.000	970.000	766,506	0,233	0,294	0.0	54,999	5,421	50,000
14440.000	970.000	766,678	0.0	0,404	0.0	69,934	0.0	50,000
14440.000	970.000	766,536	-0,142	0,030	0.0	23,263	46,671	50,000
14740.000	930.000	767,367	0.0	0,689	0.0	107,265	0.0	300,000
14740.000	930.000	767,744	0,378	1,208	0.0	22,001	81,264	300,000
15370.000	875.000	771,711	0.0	4,344	0.0	31,095	0.0	630,000
15370.000	875.000	771,732	0,021	3,988	0.0	31,268	-0,172	630,000
15420.000	875.000	772,710	0.0	0,999	0.0	34,271	0.0	50,000
15420.000	875.000	772,705	-0,005	0,973	0.0	34,306	-0,035	50,000
15470.000	875.000	774,361	0.0	1,651	0.0	36,492	0.0	50,000
15470.000	875.000	775,047	0,686	2,343	0.0	16,102	20,390	50,000
15530.000	875.000	774,367	0.0	0,006	0.0	36,513	0.0	60,000
15530.000	875.000	775,366	0,999	0,319	0.0	40,257	-3,744	60,000

MADE IN U. S. A.

15580.000	875.000	780.450	0.0	6.083	0.0	66.041	0.0	50,000
15580.000	875.000	780.447	-0.003	5.081	0.0	59.999	6.042	50,000
15630.000	875.000	781.852	0.0	1.403	0.0	66.135	0.0	50,000
15630.000	875.000	781.852	-0.001	1.404	0.0	59.999	6.136	50,000
15710.000	560.000	783.239	0.0	1.387	0.0	188.731	0.0	80,000
15710.000	560.000	783.268	0.029	1.416	0.0	70.229	118.502	80,000
15760.000	560.000	783.027	0.0	-0.213	0.0	88.044	0.0	50,000
15760.000	560.000	783.854	0.827	0.586	0.0	28.112	59.932	50,000
15810.000	560.000	789.296	0.0	6.269	0.0	11.000	0.0	50,000
15810.000	560.000	789.292	-0.004	6.239	0.0	11.000	0.0	50,000
15843.000	560.000	788.953	0.0	-0.343	0.0	11.000	0.0	33,000
15843.000	560.000	789.302	0.349	0.009	0.0	11.000	0.0	33,000
15893.000	560.000	791.774	0.0	2.821	0.0	266.495	0.0	50,000
15893.000	560.000	791.616	-0.158	2.314	0.0	34.999	231.496	50,000
15943.000	560.000	791.774	0.0	0.301	0.0	245.538	0.0	50,000
15943.000	560.000	791.797	0.023	0.181	0.0	234.999	10.539	50,000
17043.000	330.000	805.065	0.0	13.291	0.0	14.958	0.0	1100,000
17043.000	330.000	805.064	-0.002	13.267	0.0	14.953	0.005	1100,000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	57.902	0.0
2	4.000	0.0	25.245	-32.657

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