

//SY:01 00 *

C

C 5

C 993 RDNO NCSR 1238 MXLCEL 653.0 RDELV 655.5

C 6785 RDNO NCSR 1322 MXLCEL 703.2 RDELV 705.8

C 14349 RDNO NC 29 BY-PASS MXLCEL 764.9 RDELV 779.2

C 15539 RDNO BEAVER STREET MXLCEL 770.5 RDELV 782.5

C 15843 RDNO CHAPEL STREET MXLCEL 789.6 RDELV 790.9

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 -1 2 0.006 650.0

J2 0 -1

J3 38 39 40 41 43 42 1 2 26 53

J3 54 25 50 0 201

J5 -10

NC 0.055 0.055 0.035 0.1 0.3

QT 5 1125 1075 2225 3050 2225

ET 5 0 0 0 0 -10.4

SX1 875 16 1434 1465 875 875 875

GR 660.2 1000 650.7 1100 659.3 1150 653.9 1200 647.9 1300

GR 649.5 1400 651.1 1434 647.2 1441 647.0 1449 645.0 1457

GR 650.4 1465 651.2 1500 656.6 1600 662.4 1700 667.0 1800

GR 668.1 1827

X1 925 0 0 0 50 50 50 +0.1

IC 0.060 0.060 0.040 0.1 0.3

X1 975 13 1400 1440 50 50 50

GR 655.3 1000 662.4 1100 659.5 1200 656.0 1300 655.5 1400

GR 645.2 1400 645.5 1410 646.7 1431 649.3 1433 649.8 1440

GP	655.5	1440	655.9	1500	659.3	1600	662.4	1700	668.0	1800
SB	0.9	1.5	2.5		40	0.01	256			
X1	993	0	0	0	18	18	18			
X2			1	653.0	655.5					
BT	10	1000	665.3	0	1100	662.4	0	1200	658.5	0
BT	1300	656.0	0	1400	655.5	653.0	1440	655.5	652.9	1500
BT	659.9	0	1600	658.3	0	1700	662.4	0	1800	668.0
BT	0									
NC	0.055	0.055	0.035	0.1	0.3					
X1	1043	16	1434	1465	50	50	50		+0.4	
GR	660.2	1000	658.7	1100	659.3	1150	653.9	1200	647.9	1300
GR	649.5	1400	651.1	1434	647.2	1441	647.0	1449	645.0	1457
GR	650.4	1465	651.2	1500	656.6	1600	662.4	1700	667.0	1800
GR	668.1	1927								
X1	1093	0	0	0	50	50	50		+0.2	
BT	5	1050	1725	2100	2800	2100				
X1	3565	16	1228	1255	2472	2472	2472			
GR	677.0	1000	669.3	1100	661.3	1178	661.0	1200	661.9	1228
GR	656.5	1232	656.6	1239	657.1	1250	661.3	1255	662.5	1300
GR	661.6	1400	661.3	1500	661.7	1516	667.9	1536	672.3	1600
GR	673.3	1615								
BT	5	800	1350	1630	2250	1630				
X1	6615	9	1164	1202	3050	3050	3050		-2.8	
GR	714.3	1000	703.2	1100	699.2	1164	696.4	1177	695.0	1187
GR	696.3	1197	697.6	1202	703.6	1300	714.3	1345		
X1	6665	0	0	0	50	50	50		+0.6	
NC	0.040	0.060	0.040	0.1	0.3					
X1	6705	14	1200	1230	40	40	40			
GR	720.9	1000	711.6	1100	704.2	1150	705.3	1200	797.2	1200

GR 696.0	1209	695.2	1212	693.9	1220	694.2	1230	705.8	1230
SR 708.0	1300	713.2	1400	718.6	1500	720.8	1524		
SB 0.9	1.5	2.5		30	0.01	251			
X1 6725	0	0	0	20	20	20			
X2		1	703.2	705.9					
BT 9	1000	720.8	0	1100	711.6	0	1150	704.2	0
BT 1200	705.8	703.2	1230	705.8	703.2	1300	708.0	0	1400
BT 713.2	0	1500	718.6	0	1524	720.8	0		
NC 0.055	0.055	0.035	0.1	0.3					
X1 6765	9	1164	1202	40	40	40			
GR 714.3	1000	703.2	1100	699.2	1164	696.8	1177	695.0	1167
GR 696.8	1197	697.6	1202	709.6	1300	714.3	1345		
X1 6815	0	0	0	50	50	50		+0.4	
QT 5	680	1180	1425	1980	1425				
X1 9970	13	1254	1273	3155	3155	3155			
GR 742.3	1000	733.9	1100	729.1	1200	720.9	1230	725.3	1250
GR 724.5	1254	722.3	1256	722.4	1261	722.4	1267	720.0	1273
GR 727.2	1300	730.0	1331	740.0	1556				
QT 5	450	780	970	1370	970				
X1 14045	10	1300	1322	4075	4075	4075		-5.8	
GR 705.0	1000	779.5	1100	775.5	1200	768.0	1300	758.3	1310
GR 758.2	1314	758.3	1318	762.7	1322	769.0	1400	785.0	1485
X1 14095	0	0	0	50	50	50		+0.8	
NC 0.025	0.025	0.025	0.1	0.3					
X1 14145	19	1682.5	1695	50	50	50			
GR 793.5	1000	786.0	1100	786.4	1200	782.3	1300	780.6	1375
GR 775.2	1475	771.2	1675	763.7	1675	756.0	1682.5	753.9	1682.5
GR 753.9	1695	756.0	1695	758.4	1697	764.7	1775	780.7	1860
GR 782.5	1000	784.0	2000	799.0	2100	793.5	2180		

SB	1.25	1.5	2.5	0	12.5	0.5	72			
X1	14340	19	1682.5	1695	195	195	195			
X2			1	764.9	779.1					
BT	15	1000	793.5		1100	788.0		1200	786.4	
BT	1300	782.8		1400	780.6		1500	779.6		1600
BT	779.1		1682.5	779.2	764.9	1695	779.2	764.9	1700	779.2
BT		1800	779.1		1900	782.5		2000	786.0	
BT	2100	790.0		2180	793.5					
GR	793.5	1600	788.0	1100	786.4	1200	782.8	1300	780.6	1400
GR	779.7	1490	776.2	1575	768.7	1675	761.0	1682.5	758.9	1682.5
GR	758.9	1695	761.0	1655	763.4	1697	769.7	1775	780.2	1832
GR	782.5	1900	785.0	2000	790.0	2100	793.5	2180		
NC	0.055	0.055	0.035	0.1	0.3					
X1	14390	10	1300	1322	50	50	50		+0.3	
GR	785.0	1000	779.5	1100	775.5	1200	768.0	1300	758.3	1310
GR	758.2	1314	758.3	1318	762.7	1322	769.0	1400	785.0	1485
X1	14440	0	0	0	50	50	50		-0.3	
QT	5	440	760	930	1320	930				
X1	14740	11	1312	1338	300	300	300			
GR	782.6	1900	772.5	1100	767.7	1200	766.7	1300	767.4	1312
GR	759.2	1324	759.0	1328	759.2	1332	766.7	1338	780.7	1400
GR	782.6	1410								
QT	5	410	720	875	1240	875				
X1	15370	14	780	1035	630	630	630		-0.6	
GR	785.9	900	777.4	980	773.7	990	772.2	1000	767.5	1003
GR	767.3	1006	767.8	1003	769.8	1018	770.6	1028	775.7	1035
GR	779.1	1100	781.7	1200	785.2	1300				
X1	15420)	0	0	50	50	50		+0.6	
NC	0.025	0.025	0.025	0.1	0.3					

X1 15470	15	1249.5	1261.5	50	50	50			
GR 792.9	1000	785.3	1100	782.7	1200	779.6	1229	775.9	1239
GR 771.9	1248.5	770.9	1248.5	770.5	1255	769.5	1261.5	770.5	1261.5
GR 772.0	1267	772.8	1277	777.9	1284	781.3	1349	789.1	1400
GR 792.9	1459								
SB 0.9	1.5	2.5	0	13	0.01	84			
X1 15530	0	0	0	60	66	60			
X2		1	778.5	782.5					
BT 19	1000	792.9		1100	785.3		1200	782.7	
BT 1248.5	782.5	771.9	1249	782.5	773.7	1250	782.5	775.5	1251
BT 782.5	776.8	1252	782.5	777.6	1253	782.5	778.0	1255	782.5
BT 778.5	1257	782.5	776.2	1258	782.5	777.8	1259	782.5	777.2
BT 1260	782.5	776.2	1261	782.5	773.8	1261.5	782.5	770.5	1300
BT 783.2		1400	789.1		1459	792.9			
NC 0.055	0.055	0.035	0.1	0.3					
NC 0.055	0.055	0.035	0.1	0.3					
X1 15580	10	1117	1144	50	50	50			
GR 794.3	1000	779.9	1100	778.9	1117	776.3	1119	776.1	1125
GR 776.5	1134	779.8	1144	781.8	1200	788.5	1300	794.3	1329
X1 15630	0	0	0	50	50	50		+1.4	
BT 5	240	450	560	850	960				
X1 15710	11	1106	1126	80	80	80			
GR 800.7	1000	786.0	1100	783.6	1108	779.6	1115	779.7	1118
GR 779.9	1122	778.5	1126	780.7	1200	783.3	1300	787.9	1400
GR 800.7	1469								
X1 15760	0	0	0	50	50	50		+2.3	
NC 0.060	0.060	0.040	0.1	0.3					
X1 15810	14	1375	1386	50	50	50			
GR 790.9	1000	781.8	1100	797.5	1200	792.7	1300	790.9	1375

GR	785.7	1375	785.0	1380	784.4	1386	790.9	1386	790.9	1400
GR	791.9	1500	792.5	1600	795.2	1700	800.3	1800		
SB	0.9	1.5	2.5	0	11	0.01	51			
X1	15843	0	0	0	33	33	33			
X2			1	789.6	790.9					
BT	11	1000	805.9		1100	801.8		1200	797.5	
BT	1300	792.7		1375	790.9	789.6	1386	790.9	789.6	1400
BT	791.0		1500	791.9		1600	792.5		1700	795.2
BT		1000	800.3							
NC	0.055	0.055	0.035	0.1	0.3					
X1	15893	11	1108	1126	50	50	50		+5.5	
GR	800.7	1000	786.0	1100	783.6	1108	779.6	1115	779.7	1118
GR	779.9	1122	778.5	1126	780.7	1200	783.3	1300	787.9	1400
GR	800.7	1469								
X1	15943	0	0	0	50	50	50		+0.8	
QT	5	129	255	330	520	330				
X1	17043	12	1220	1240	1100	1100	1100			
GR	825.1	1000	814.9	1100	807.9	1200	806.6	1220	800.8	1229
GR	800.6	1230	800.7	1231	806.9	1240	812.3	1300	815.6	1400
GR	819.9	1500	822.5	1540						

EJ

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 50 YEAR FLOOD WATER SURFACE PROFILE

J1 -10 3 0.006 651.0

J2 2 -1

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 FLOOD WATER SURFACE PROFILE

J1 -10 4 0.006 653.0

J2 3 -1

T1 LANDIS-ROWAN CO. BASIN C-A STRM 2-1L BEAVER CREEK

T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918

T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1 -10 5 0.006 654.0

J2 15 -1

ER

ER

/*EOF

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//SYSIN=DD *

C

C 1

C RONO MILLS DRIVE MXLCEL 810.8 RDELV 823.2

T1 LANDIS-ROWAN CO. BASIN F-A STREAM 2L CORRELL CREEK

T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918

T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 -10 0 0.033 787.1

J2 0 -1

J3 38 39 40 41 43 42 1 2 26 53

J3 54 25 50 0 201

J5 -10

J6 0.055 0.055 0.035 0.1 0.3

J7 130 261 330 542 349

ET	5	0	0	0	0	-10.4				
X1	375	9	1124	1153	375	375	375			
GR	801.3	1000	791.6	1100	787.3	1124	782.4	1127	782.3	1130
GR	782.1	1133	790.9	1153	795.9	1200	801.3	1228		
DT	5	128	260	336	531	336				
X1	1475	6	1084	1090	1100	1100	1100		-7.3	
GR	827.7	1000	812.8	1084	811.7	1086	813.0	1090	813.6	1100
GR	827.7	1167								
X1	1525	0	0	0	50	50	50		+1.7	
NC	0.025	0.025	0.025	0.1	0.3					
X1	1575	16	1398.5	1401.5	50	50	50			
GR	834.9	1000	833.6	1100	829.9	1200	824.6	1300	823.8	1314
GR	809.3	1398.5	808.2	1399	807.8	1400	808.2	1401	809.3	1401.5
GR	809.7	1414	823.8	1481	826.9	1500	828.4	1600	828.9	1700
GR	834.9	1790								
SB	0.9	1.5	2.5	0	3	0.01	7			
X1	1617	0	0	0	42	42	42			
X2			1	810.8	823.2					
BT	13	1000	834.9		1100	833.6		1200	829.9	
BT	1300	824.6		1398.5	823.2	809.3	1399	823.2	810.4	1400
BT	823.2	810.8	1401	823.2	810.4	1401.5	823.2	809.3	1500	826.9
BT		1600	828.4		1700	828.9		1790	834.9	
NC	0.055	0.055	0.035	0.1	0.3					
X1	1667	6	1084	1090	50	50	50			
GR	827.7	1000	812.8	1084	811.7	1086	813.0	1090	813.6	1100
GR	827.7	1167								
X1	1717	0	0	0	50	50	50		+3.9	

EJ

LAUDIS-ROWAN CO. BASIN F-A STREAM 2L CORRELL CREEK

T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918

T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1 -10 4 0.033 790.1

J2 15 -1

EJ

ER

/*EOF

//RMAK3X JOB RTI.A25.P03078,KEZIAH,M=1,T=2,P=100,PTY=0

//*PROCLIB=RTI.MG.PROCLIB

//SYSIN DD:*

C

C 5

C 2210 RDNO NCSR 1238 MXLCEL 688.3 RDELV 690.2

C 5990 RDNO NCSR 1221 MXLCEL 726.9 RDELV 728.8

C 8134 RDNO NCSR 1243 MXLCEL 740.2 RDELV 742.3

C 9290 RDNO NC 29 BY-PASS MXLCEL 754.9 RDELV 764.9

C 12140 RDNO TOWN STREET MXLCEL 790.9 RDELV 801.1

T1 LANDIS-ROWAN CO. BASIN D-E STREAM 5-3L TOWN CREEK

T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918

T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 -10 2 0.013 661.5

J2 0 -1

J3 38 39 40 41 43 42 1 2 26 53

J4 54 25 50 0 201

J5 -10

NC 0.050 0.050 0.030 0.1 0.3

X1	2350	0	0	0	100	100	100		+1.3	
QT	5	470	860	1070	1550	1070				
X1	5064	15	1385	1407	3504	3504	3504		-0.8	
GR	739.2	1000	733.4	1100	727.9	1200	725.5	1300	726.9	1385
GR	718.4	1395	718.3	1400	718.5	1405	720.6	1407	721.0	1414
GR	726.3	1420	727.1	1500	731.0	1600	737.2	1700	741.4	1800
X1	5914	0	0	0	50	50	50		+0.2	
NC	0.060	0.060	0.040	0.1	0.3					
X1	5964	17	1360	1385	50	50	50			
GR	743.3	1000	738.2	1100	733.1	1200	729.5	1300	728.8	1360
GR	720.3	1360	718.5	1360	717.9	1373	718.1	1378	719.4	1379
GR	720.7	1385	728.5	1385	728.4	1400	730.1	1500	734.9	1600
GR	740.3	1700	743.3	1750						
SB	0.9	1.5	2.5	0	25	0.01	194			
X1	5990	0	0	0	26	26	26			
X2			1	726.9	728.4					
BT	11	1000	743.3		1100	738.2		1200	733.1	
BT	1300	729.5		1360	728.8	726.9	1385	728.5	726.6	1400
BT	728.4		1500	730.1		1600	734.9		1700	740.3
BT		1753	743.3							
NC	0.050	0.050	0.030	0.1	0.3					
X1	6040	15	1385	1407	50	50	50		-0.2	
GR	739.2	1000	733.4	1100	727.9	1200	725.5	1300	726.9	1385
GR	718.4	1395	718.3	1400	718.5	1405	720.6	1407	721.0	1414
GR	726.3	1420	727.1	1500	731.0	1600	737.2	1700	741.4	1800
X1	6090	0	0	0	50	50	50		+0.2	
BT	5	370	680	860	1270	860				
X1	7965	13	1475	1493	1375	1875	1875		-0.5	
GR	753.2	1000	748.3	1100	741.9	1200	739.9	1300	737.1	1400

GR	737.7	1476	732.0	1482	732.0	1484	732.0	1466	737.9	1493
GR	737.9	1500	742.0	1600	753.2	1630				
X1	8065	0	0	0	100	100	100		+0.8	
MC	0.025	0.025	0.025	0.1	0.3					
X1	8090	19	1473	1481	25	25	25			
GR	754.0	1000	748.5	1093	742.1	1193	740.1	1293	737.3	1393
GR	737.9	1462	735.2	1473	733.6	1474	732.8	1475	732.2	1477
GR	732.6	1472	733.6	1480	736.2	1481	738.1	1486	738.1	1493
GR	742.2	1593	744.5	1660	749.3	1700	751.8	1800		
SB	0.9	1.5	2.5	0	8	0.01	50			
X1	8134	0	0	0	44	44	44			
X2			1	740.2	741.9					
BT	16	1000	754.0		1100	748.8		1200	745.2	
BT	1320	743.0		1400	741.9		1473	742.3	736.2	1474
BT	742.3	738.8	1475	742.3	739.6	1477	742.3	740.2	1479	742.3
BT	739.6	1480	742.3	738.6	1481	742.3	736.2	1500	742.6	
BT	1600	744.5		1700	749.3		1800	751.8		
MC	0.050	0.050	0.030	0.1	0.3					
X1	8159	13	1476	1493	25	25	25		+0.4	
GR	753.2	1000	748.3	1100	741.9	1200	739.9	1300	737.1	1400
GR	737.7	1476	732.0	1482	732.0	1484	732.0	1486	737.9	1493
GR	737.9	1500	742.0	1600	753.2	1630				
X1	8259	0	0	0	100	100	100		+0.8	
QT	5	295	560	700	1050	700				
X1	8984	11	1195	1210	725	725	725			
GR	761.5	1000	755.1	1100	749.5	1140	749.6	1195	744.2	1197
GR	743.7	1202	744.3	1200	750.1	1210	757.7	1300	767.1	1400
GR	770.3	1430								
X1	9084	0	0	0	100	100	100		+2.1	

NC	0.025	0.025	0.025	0.1	0.3					
X1	9134	23	2046	2054	50	50	50			
GR	775.0	1000	771.8	1100	768.6	1200	766.1	1300	764.5	1400
GR	764.2	1500	763.7	1600	763.5	1700	763.4	1800	763.5	1865
GR	758.3	1948	752.7	1988	752.8	2043	747.4	2046	746.9	2046
GR	746.9	2054	747.5	2054	753.3	2058	760.9	2148	770.0	2243
GR	771.9	2300	775.0	2400	780.0	2500				
SB	0.9	1.5	2.5	0	0	0.01	40			
X1	9290	23	2046	2054	156	156	156			
X2			1	754.9	763.4					
BT	18	1000	775.0		1100	771.8		1200	768.6	
BT	1300	766.1		1400	764.5		1500	764.2		1600
BT	763.7		1700	763.5		1800	763.4		1900	763.6
BT		2000	764.3		2046	764.9	754.9	2054	765.0	754.9
BT	2100	766.1		2200	768.8		2300	771.9		2400
BT	776.0		2500	780.0						
GR	775.0	1000	771.8	1100	768.6	1200	766.1	1300	764.5	1400
GR	764.2	1500	763.7	1600	763.5	1700	763.4	1800	763.6	1900
GR	761.3	1948	755.7	1988	755.8	2043	750.4	2046	749.9	2046
GR	749.9	2054	750.5	2054	756.3	2058	763.9	2148	760.8	2200
GR	771.9	2300	775.0	2400	780.0	2500				
NC	0.059	0.059	0.030	0.1	0.3					
X1	9340	11	1195	1210	50	50	50		+7.3	
GR	761.5	1000	755.1	1100	749.5	1140	749.6	1195	744.2	1197
GR	743.7	1202	744.3	1204	750.1	1210	757.7	1300	767.1	1400
GR	770.3	1430								
X1	9440	0	0	0	100	100	100		+2.1	
BT	5	223	425	540	820	540				
X1	11140	10	1170	1178	1700	1700	1760			

GR	788.9	1000	781.8	1100	777.3	1170	771.7	1172	772.1	1174
GR	772.2	1176	774.2	1178	775.2	1190	783.0	1200	788.9	1240
BT	5	156	300	385	590	385				
X1	11985	0	1070	1085	845	845	845		-0.7	
GR	807.1	1000	790.7	1070	784.3	1075	784.1	1078	784.3	1080
GR	789.9	1085	789.9	1100	807.1	1200				
X1	12035	0	0	0	50	50	50		+0.7	
NC	0.025	0.025	0.025	0.1	0.3					
X1	12085	0.14	1113.5	1116.5	50	50	50			
GR	813.5	1000	809.0	1050	794.5	1107	789.4	1113.5	788.3	1114
GR	787.9	1115	788.3	1116	789.4	1116.5	793.7	1122	793.7	1137
GR	801.1	1182	801.1	1200	809.8	1300	813.5	1355		
SE	0.9	1.5	2.5	0	3	0.01	7			
X1	12140	0	0	0	55	55	55			
X2			1	790.9	801.1					
BT	10	1000	813.5		1100	802.2		1113.5	801.1	789.4
BT	1114	801.1	790.5	1115	801.1	790.9	1115	801.1	790.5	1116.5
BT	801.1	789.4	1200	801.1		1300	809.3		1355	813.5
BT										
NC	0.050	0.050	0.030	0.1	0.3					
X1	12190	0	1070	1085	50	50	50		+9.0	
GR	807.1	1000	790.7	1070	784.3	1075	784.1	1078	784.3	1080
GR	789.9	1085	789.9	1100	807.1	1200				
X1	12240	0	0	0	50	50	50		+3.8	

ED

F1 LANDIS-ROGAN CO. BASIN A-E STREAM 5-3L TOWN CREEK
 F2 FLOODPLAIN STUDY AT ROGAN & DAVIDSON COUNTIES H-G JOB NO. 6918
 F3 100 YEAR FLOOD WATER SURFACE PROFILE

D -10 0 0.013 664.5

J2 15 -1

EJ

ER

/*EOF

//RMAK5X JOB RTI.A25.P03078,KEZIAN,M=1,T=2,P=100,PTY=0

//*PROCLIB=RTI.MG.PROCLIB

//SYSIN,DD*

C

C 1

C 1250 RDNO RYDER AVENUE MXLCEL 826.1 RDELV 834.9

T1 LANDIS-ROWAN CO. BASIN A-E STREAM SL MILL CREEK

T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918

T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 -10 2 0.011 813.8

J2 0 -1

J3 38 39 40 41 43 42 1 2 26 55

J3 54 25 50 0 201

J5 -10

NC 0.055 0.055 0.035 0.1 0.3

NT 5 137 270 347 545 347

ET 5 0 0 0 0 -10.4

X1 200 11 1170 1186 200 200 200

GR 826.3 1000 815.5 1100 811.4 1170 809.2 1174 808.8 1177

GR 809.2 1150 811.7 1186 811.6 1200 810.8 1240 825.0 1300

GR 526.3 1312

X1 545 12 1118 1160 745 745 745 -0.3

GR 837.7	1000	832.9	1100	833.0	1118	815.4	1133	814.0	1143
GR 815.2	1152	821.7	1160	820.5	1200	820.7	1240	829.0	1270
GR 832.4	1300	837.7	1345						
X1 995	0	0	0	50	50	50		+0.3	
UC 0.025	0.025	0.025	0.1	0.3					
X1 1045	20	1392	1398	50	50	50			
GR 849.7	1000	845	1100	840.6	1200	836.9	1300	835.4	1370
GR 819.4	1392	817.2	1393	816.6	1394	816.4	1395	816.6	1396
GR 817.2	1397	819.4	1398	824.1	1412	822.9	1452	823.1	1492
GR 831.4	1522	830.8	1552	839.6	1600	844.5	1700	849.7	1790
SB 0.9	1.5	2.5		5.9	0.010	33			
X1 1205	16	1393	1399.6	160	160	160			
X2		1	826.1	834.9					
BT 11	1000	849.7		1100	845.0		1200	840.6	
BT 1300	836.9		1393	834.9	826.1	1398.6	834.9	826.1	1400
BT 834.9		1500	835.7		1600	839.6		1700	844.5
BT	1790	849.7							
GR 849.7	1000	845.0	1100	840.6	1200	836.9	1300	835.3	1373
GR 821.6	1385	821.0	1393	820.2	1393	820.2	1398.6	821.0	1398.6
GR 821.4	1404	827.9	1412	825.7	1452	826.9	1492	835.2	1522
GR 837.2	1540	839.6	1600	844.5	1700	849.7	1790		
UC 0.055	0.055	0.055	0.1	0.3					
X1 1255	12	1116	1160	50	50	50		+8.6	
GR 837.7	1000	832.9	1100	833.0	1118	815.4	1133	814.0	1143
GR 815.2	1152	821.7	1160	820.5	1200	820.7	1240	829.0	1270
GR 832.4	1300	837.7	1345						
X1 1305	0	0	0	50	50	50		+2.4	

EJ

T1 LANBIS-POWAM CO. BASIN A-F STREAM 5L MILL CREEK

T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918

T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1 -10 4 0.011 815.3

J2 15 -1

EJ

ER

// EOF

//

// XEQ STOP

20 6921 1382 531 MK

FIS DAVIDSON-ROWAN COUNTIES

// EOU

 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
 12 FLOODPLAIN STUDY AT ROWAN & DAVIUSON COUNTIES M-G JOB NO. 6918
 13 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-1.	4.	0.	0.	0.0	0.0	0.0	0.	651.240	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	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
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	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	995.000	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	653.500	0.0
BT	1400.000	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
LT	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	1045.000	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	1095.000	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
AC	0.0	0.0	1.000	164.700	119.100	0.0	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	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
EI	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	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
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
BY	9.000	1000.000	720.800	0.0	1100.000	711.800	0.0	1150.000	704.200	0.0
BY	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	6755.000	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	9770.000	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	570.000	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	773.500	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	764.700	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

BT	15.000	1000.000	793.500	0.0	1100.000	788.000	0.0	1200.000	786.400	0.0
BT	1300.000	782.800	0.0	1400.000	780.600	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
QT	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
QT	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	1240.500	782.500	771.900	1249.000	782.500	773.700	1250.000	782.500	775.500	1251.000
BY	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
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	779.800	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
QT	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	800.700	1000.000	786.000	1100.000	783.600	1108.000	779.600	1115.000	779.700	1118.000

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NEW PAK

NEW PAK

NEW PAK

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
QT	5.000	129.000	255.000	330.000	520.000	330.000	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.

UDRM
KHAM

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

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	Q	WSEL	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	652.240	0.0
J2	NPROF	IPL0T	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	LOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOP	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3470 ENCROACHMENT STATIONS= 1361.8 1478.5 TYPE= 4 TARGET= 0.433
 875.00 7.24 652.24 0.0 551.24 653.18 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
 0.006688 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
 0.001913 50. 50. 50. 3 0 1 0.0 166.11 1488.41

CCHV= 0.100 CEHV= 0.300

IHC209I IBCOM - PROGRAM INTERRUPT (P) - DIVIDE CHECK OLD PSW IS 'FFB5000F420BA27C'. REGISTER CONTAINED 0000000000000000

TRACERACK ROUTINE CALLED FROM ISN REG. 14 REG. 15 REG. 0 REG. 1

MAIN 00011E1A 010833C0 FD000008 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	TQ	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	18.00	0.0	0.0	645.20	2225.00	651.17	163.16	653.48	40.00	0.0	0.0	12.21
	993.00	18.00	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	166.75	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
	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
E	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	730.93	40.00	1250.00	1290.00	11.84
G	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	765.21	155.64	766.69	41.06	0.0	0.0	10.43

LIMIT OF DETAILED STUDY 1470

13950
14045
14045

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	758.50	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
14440.00	50.00	0.0	0.0	758.20	970.00	766.68	200.01	767.13	69.93	0.0	0.0	5.97
14440.00	50.00	0.0	0.0	758.20	970.00	766.54	159.57	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	1330.00	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	16.10	1247.23	1263.33	12.18
15530.00	60.00	782.50	778.50	769.50	875.00	774.37	116.02	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	254.93	783.27	188.73	0.0	0.0	1.86
15710.00	80.00	0.0	0.0	778.50	550.00	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	1108.00	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	788.95	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	956.37	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	725.52	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

10490 *London Corp. Limits*

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH R	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	165.354	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	135.270	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	26.934	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	26.001	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

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	5.439	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	0.001	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

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

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

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

C
 T1 LANDIS-ROWAN CO. BASIN E-A STRM 2-1L BEAVER CREEK
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-S JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR
	-1.	2.	0.	0.	0.006000	0.0	0.0	0.	650.000	0.0
J2	NPROF	IPL0T	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									
	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	*****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	647.900	1300.000
GP	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	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	1400.000	655.000	1500.000	650.300	1600.000	662.400	1700.000	667.000	1800.000

X1	925.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0
IC	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

RDNQ NCSR 1238 MXLCEL 653.0 RDELV 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	605.300	0.0	1100.000	662.400	0.0	1200.000	658.500	0.0
BT	1300.000	656.200	0.0	1400.000	655.500	653.000	1440.000	655.500	652.900	1500.000
BT	659.900	0.0	1400.000	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
SR	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
BT	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	1167.000
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
IC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0

GR	696.800	1197.000	697.000	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
HC	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
GF	708.000	1300.000	713.200	1400.000	718.600	1500.000	720.800	1524.000	0.0	0.0
SP	0.900	1.500	2.500	0.0	30.000	0.010	251.000	0.0	0.0	0.0

ROND NCSR 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
HC	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

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
HC	0.025	0.025	0.025	0.100	0.300	0.0	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
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	14095.000	19.000	1682.500	1695.000	50.000	50.000	50.000	1400.000	785.000	1485.000
X1	14095.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.000	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	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	764.700	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

RDN0 NC 29 BY-PASS MXLCEL 764.9

RDELV 779.2

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
BT	15.000	1000.000	793.500	0.0	1100.000	788.000	0.0	1200.000	786.400	0.0
BT	1300.000	782.800	0.0	1400.000	780.600	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	753.900	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

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

X1	14440.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	-0.300	0.0
QT	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
QT	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

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	767.900	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

X1	15420.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.600	0.0
VC	0.025	0.025	0.025	0.100	0.300	0.0	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
SR	0.900	1.500	2.500	0.0	13.000	0.010	84.000	0.0	0.0	0.0

RDNQ BEAVER STREET 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	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	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	779.800	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
QT	5.000	240.000	450.000	560.000	850.000	560.000	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	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	0.300	0.0
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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	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

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	1300.000	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

RDNn 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	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

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

X1	15943.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.800	0.0
QT	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
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

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

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	OIFWSP
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	1238.72	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

045 045

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	1127.95	1233.46	278.39	0.84

SECNO	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	0.0	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	359.30	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	836.54	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	426.60	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
9770.000	3155.00	0.0	0.0	680.00	722.30	726.87	726.70	9.40	1241.26	1271.79	41.47	0.0

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 etc. 2970												
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	6.86	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

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
14045.000	50.00	0.0	0.0	450.00	758.20	760.17	0.0	5.00	1304.60	1332.31		

13345
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J

K

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	50.00	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

10000 CORP. LIMIT LANDS

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

C
 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	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	2.	0.	0.	0.006000	0.0	0.0	0.	650.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHN1M	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									
	38.000	39.000	40.000	41.000	43.000	42.000	1.000	2.000	25.000	53.000
	54.000	25.000	50.000	0.0	201.000	0.0	0.0	0.0	0.0	0.0
J5	LPRNT	NW/SEC	*****REQUESTED SECTION NUMBERS*****							
	-10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MADE IN U.S.A.

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

T1 LANLIS-ROWAN CO. BASIN E-A STRG 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	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	EQ
	110	4	0	0	0.006000	0.0	0.0	0	653.000	0.0
J2	IPROE	IPLOT	PREVS	XSECV	XSECH	FW	ALLDC	IBW	CHNLM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MADE IN U.S.A.

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

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

1 YEAR FLOOD WATER SURF.

SUMMARY PRINTOUT

	SECTNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
A	875.000	375.00	0.0	0.0	1125.00	645.00	650.26	0.0	6.47	1260.67	1464.79	296.78	0.0
	875.000	375.00	0.0	0.0	2225.00	645.00	651.24	0.0	7.52	1244.39	1500.68	511.47	0.98
	925.000	50.00	0.0	0.0	1125.00	645.10	650.63	0.0	5.42	1256.13	1470.79	349.00	0.0
	925.000	50.00	0.0	0.0	2225.00	645.10	651.61	0.0	6.65	1239.85	1505.72	582.58	0.98
	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	2225.00	645.20	651.16	651.16	12.23	1400.00	1440.00	182.00	0.64
	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	2225.00	645.20	651.17	0.0	12.21	1400.00	1440.00	182.17	0.64
	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	2225.00	645.40	653.72	0.0	3.50	1209.55	1539.39	1124.13	2.30
B	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	2225.00	645.60	653.75	0.0	3.69	1212.54	1536.06	1065.37	2.24
*C	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	2100.00	656.50	662.85	662.85	8.67	1160.63	1519.72	520.78	0.78
*D	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	1630.00	692.20	697.81	697.81	10.09	1141.36	1226.63	198.53	1.45
	6655.000	50.00	0.0	0.0	800.00	692.60	697.10	696.98	8.04	1162.25	1215.96	107.76	0.0
*	6655.000	50.00	0.0	0.0	1630.00	692.60	698.42	698.42	10.06	1141.20	1226.70	199.35	1.32
*	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	1630.00	693.90	700.16	700.16	13.53	1208.63	1230.00	120.45	2.14
	6725.000	20.00	705.80	703.20	800.00	693.90	698.83	0.0	10.66	1208.82	1230.00	75.02	0.0
	6725.000	20.00	705.80	703.20	1630.00	693.90	700.17	0.0	13.51	1208.63	1230.00	120.62	2.14
	6765.000	40.00	0.0	0.0	800.00	695.00	699.60	0.0	7.13	1157.53	1218.34	124.50	0.0
	6765.000	40.00	0.0	0.0	1630.00	695.00	703.07	0.0	5.11	1102.03	1246.70	481.14	3.47
E	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	1630.00	695.40	703.09	0.0	5.62	1108.25	1243.52	426.68	3.14

SFCNO	XLCH	ELTRD	ELLC	Q	ELMIN	CRSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
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
* F 9970.000	3155.00	0.0	0.0	1425.00	722.30	728.94	728.94	10.14	1223.44	1319.70	212.07	2.07
14000 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
14000 14045.000	4075.00	0.0	0.0	970.00	752.40	759.12	758.75	9.51	1303.17	1349.54	124.37	1.39
14000 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
14000 14095.000	50.00	0.0	0.0	970.00	753.20	759.55	759.55	10.54	1303.55	1344.94	108.03	1.72
14050 14145.000	50.00	0.0	0.0	450.00	753.90	758.07	0.0	8.40	1680.40	1696.72	55.99	0.0
14050 14145.000	50.00	0.0	0.0	970.00	753.90	760.08	760.08	10.81	1678.52	1717.84	108.73	2.01
14245 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
14245 14340.000	195.00	779.10	764.90	970.00	758.90	765.10	765.08	10.76	1678.50	1718.07	109.44	2.46
14245 14390.000	50.00	0.0	0.0	450.00	758.50	763.65	0.0	6.86	1304.80	1329.95	67.76	0.0
14245 14390.000	50.00	0.0	0.0	970.00	758.50	766.30	0.0	7.14	1302.07	1362.76	181.49	2.65
14345 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
14345 14440.000	50.00	0.0	0.0	970.00	758.20	766.69	0.0	5.95	1301.34	1371.49	227.66	2.53
I 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	930.00	759.00	767.38	0.0	6.42	1232.26	1341.00	169.60	2.28
* 14900 = CORP LIMITS LANDIS												
* 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
* A 15370.000	630.00	0.0	0.0	875.00	766.70	771.71	771.71	9.73	999.25	1030.35	89.97	1.31
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	875.00	767.30	772.71	0.0	8.51	996.63	1030.89	102.80	1.36
* 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	875.00	769.50	774.36	774.36	10.29	1242.66	1279.14	97.67	1.20
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	875.00	769.50	774.36	0.0	10.27	1242.65	1279.15	97.87	1.20
* 15530.000	50.00	0.0	0.0	410.00	776.10	776.85	776.85	8.23	1117.03	1141.14	49.84	0.0
* 15530.000	50.00	0.0	0.0	875.00	776.10	780.45	780.45	8.93	1096.14	1162.22	116.40	1.60
* 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	875.00	777.50	781.85	781.85	8.92	1096.14	1162.29	116.58	1.60
15710.000	50.00	0.0	0.0	240.00	773.50	781.63	0.0	1.75	1111.45	1235.70	193.20	0.0
15710.000	50.00	0.0	0.0	560.00	773.50	783.24	0.0	1.86	1108.64	1297.38	444.13	1.61
* 15760.000	50.00	0.0	0.0	240.00	780.00	782.38	782.38	5.68	1114.16	1179.18	48.18	0.0
* 15760.000	50.00	0.0	0.0	560.00	780.00	783.03	783.03	8.01	1113.03	1201.07	97.63	0.65
* 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	560.00	784.40	789.30	789.30	11.84	1375.00	1386.00	47.31	1.86
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	560.00	784.40	788.95	0.0	12.65	1375.00	1386.00	43.59	1.51
15893.000	50.00	0.0	0.0	240.00	784.00	788.01	0.0	0.77	1108.51	1300.21	458.97	0.0
15893.000	50.00	0.0	0.0	560.00	784.00	791.77	0.0	0.78	1093.14	1364.65	1136.18	2.97

MADE IN U.S.A.

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	GSTA	ENDST	AREA	DIFWSP
D 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	560.00	784.80	791.77	0.0	0.93	1101.75	1347.29	931.97	2.96
* 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	330.00	800.60	805.07	805.07	8.98	1222.38	1237.34	36.74	1.53

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= 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= 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 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 6665.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 6665.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 6705.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 6705.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 6705.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 6705.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 6705.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 6705.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 9970.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 9970.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 9970.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=14095.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO=14095.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=14145.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO=14145.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=14340.000 PROFILE= 1 WSEL ASSUMED BASED ON MIN DIFF
 CAUTION SECNO=14340.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO=14340.000 PROFILE= 2 WSEL ASSUMED BASED ON MIN DIFF
 CAUTION SECNO=14340.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO=14340.000 PROFILE= 2 HYDRAULIC JUMP D.S.

CAUTION SECNO=15370.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO=15370.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO=15370.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO=15370.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO=15370.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY

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