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

EU

GRANTS

CREEK

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
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C
 I1 LANDIS-ROWAN CO. BASIN A-E STREAM 1-4L GRANT'S CREEK
 I2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 I3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	2.	0.	0.	0.005000	0.0	0.0	0.	731.000	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	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

ERROR STATEMENT APPLIES TO SECTION

MADE IN U. S. A.

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J1	ICHECK	INQ	HINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.005000	0.0	0.0	0.	733.700	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CKIWS	VCH	SSTA	ENDST	AREA	DIFWSP
A	87060.000	87060.00	0.0	0.0	1456.00	729.00	738.74	0.0	3.69	123.98	372.89	588.40	0.0
	87060.000	87060.00	0.0	0.0	2695.00	729.00	740.07	0.0	4.15	120.98	443.38	966.04	1.33
	88010.000	50.00	0.0	0.0	1456.00	729.00	738.99	0.0	3.34	123.41	379.66	650.54	0.0
	88010.000	50.00	0.0	0.0	2695.00	729.00	740.32	0.0	3.81	120.41	444.32	1047.21	1.33
	88060.000	50.00	0.0	0.0	1456.00	729.00	738.93	0.0	4.89	270.00	406.69	309.80	0.0
	88060.000	50.00	0.0	0.0	2695.00	729.00	740.04	0.0	7.44	239.61	450.11	493.25	1.12
	88092.000	32.00	739.40	737.80	1456.00	729.00	739.15	0.0	4.74	270.00	415.32	338.01	0.0
	88092.000	32.00	739.40	737.80	2695.00	729.00	740.09	0.0	7.37	237.55	451.82	502.65	0.94
	88142.000	50.00	0.0	0.0	1456.00	729.40	739.55	0.0	1.10	53.93	440.65	1756.68	0.0
	88142.000	50.00	0.0	0.0	2695.00	729.40	740.97	0.0	1.47	48.10	445.26	2311.91	1.42
B	88192.000	50.00	0.0	0.0	1456.00	729.70	739.57	0.0	1.19	55.08	439.73	1648.01	0.0
	88192.000	50.00	0.0	0.0	2695.00	729.70	740.99	0.0	1.55	49.23	444.37	2203.53	1.43
*C	89400.000	1208.00	0.0	0.0	1379.00	736.50	742.90	742.90	12.80	1270.94	1293.13	107.72	0.0
	89400.000	1208.00	0.0	0.0	2556.00	736.50	745.29	745.29	8.68	1199.06	1499.68	485.64	2.40
D	91480.000	2080.00	0.0	0.0	1329.00	749.80	759.59	754.80	2.19	1430.14	1561.83	612.50	0.0
	91480.000	2080.00	0.0	0.0	2453.00	749.80	761.04	0.0	3.04	1376.24	1656.10	908.34	1.45
	91530.000	50.00	0.0	0.0	1329.00	750.00	759.69	0.0	2.25	1433.65	1561.68	600.22	0.0
	91530.000	50.00	0.0	0.0	2453.00	750.00	761.19	0.0	3.07	1378.10	1652.75	894.40	1.50
	91555.000	25.00	0.0	0.0	1329.00	750.50	759.66	0.0	3.65	1500.00	1592.40	493.82	0.0
	91555.000	25.00	0.0	0.0	2453.00	750.50	761.12	0.0	5.27	1500.00	1700.64	662.19	1.45
	91581.000	26.00	760.60	759.10	1329.00	750.50	760.22	0.0	3.33	1500.00	1596.95	546.89	0.0
	91581.000	26.00	760.60	759.10	2453.00	750.50	761.96	0.0	4.46	1449.13	1733.20	865.23	1.74
	91606.000	25.00	0.0	0.0	1329.00	750.20	760.32	0.0	2.06	1417.85	1578.67	659.94	0.0
	91606.000	25.00	0.0	0.0	2453.00	750.20	762.11	0.0	2.63	1351.30	1700.44	1120.32	1.80
E	91656.000	50.00	0.0	0.0	1329.00	750.40	760.41	0.0	2.10	1422.04	1570.11	642.55	0.0
	91656.000	50.00	0.0	0.0	2453.00	750.40	762.21	0.0	2.69	1355.08	1694.19	1085.15	1.81

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
*F 93280.000	1624.00	0.0	0.0	456.00	771.20	774.68	774.68	9.00	1355.03	1378.64	53.22	0.0
*F 93280.000	1624.00	0.0	0.0	1003.00	771.20	776.47	776.47	10.70	1344.43	1379.57	105.95	1.80
93330.000	50.00	0.0	0.0	456.00	771.70	777.17	0.0	4.58	1343.26	1379.68	113.09	0.0
93330.000	50.00	0.0	0.0	1003.00	771.70	779.13	0.0	5.24	1331.71	1441.58	265.73	1.95
93380.000	50.00	0.0	0.0	456.00	772.20	777.41	0.0	5.40	1352.00	1369.00	84.38	0.0
93380.000	50.00	0.0	0.0	1003.00	772.20	779.00	0.0	9.01	1352.00	1369.00	111.36	1.58
93408.000	28.00	781.00	779.40	456.00	772.20	777.41	0.0	5.40	1352.00	1369.00	84.39	0.0
93408.000	28.00	781.00	779.40	1003.00	772.20	779.72	0.0	8.12	1352.00	1369.00	123.54	2.30
93458.000	50.00	0.0	0.0	456.00	772.70	777.92	0.0	4.94	1344.72	1379.55	104.24	0.0
93458.000	50.00	0.0	0.0	1003.00	772.70	780.99	0.0	3.91	1326.65	1461.08	370.57	3.07
G 93508.000	50.00	0.0	0.0	456.00	773.20	778.74	0.0	4.49	1342.85	1379.71	115.60	0.0
93508.000	50.00	0.0	0.0	1003.00	773.20	781.28	0.0	4.20	1327.88	1456.33	343.09	2.54
93558.000	2050.00	0.0	0.0	394.00	787.40	791.52	0.0	4.64	1099.87	1131.36	84.91	0.0
A 95558.000	2050.00	0.0	0.0	842.00	787.40	792.72	0.0	6.75	1092.77	1134.31	128.30	1.20
*B 96808.000	1250.00	0.0	0.0	394.00	803.90	807.23	807.23	7.41	1231.68	1306.58	86.74	0.0
96808.000	1250.00	0.0	0.0	841.00	803.90	808.16	808.16	8.96	1210.19	1312.55	169.26	0.93
C 97208.000	400.00	0.0	0.0	240.00	805.00	809.10	0.0	3.45	1329.90	1381.16	102.10	0.0
97208.000	400.00	0.0	0.0	555.00	805.00	810.32	0.0	5.15	1318.15	1385.84	174.49	1.22
97258.000	50.00	0.0	0.0	240.00	805.10	809.16	0.0	3.50	1330.29	1381.00	100.02	0.0
97258.000	50.00	0.0	0.0	555.00	805.10	810.41	0.0	5.16	1318.23	1385.81	173.95	1.25
97308.000	50.00	0.0	0.0	240.00	805.30	809.20	0.0	4.22	1336.43	1380.88	71.62	0.0
97308.000	50.00	0.0	0.0	555.00	805.30	810.53	0.0	5.00	1323.40	1386.89	143.18	1.33
97374.000	66.00	817.70	808.30	240.00	805.30	816.04	0.0	0.40	1259.13	1425.81	742.18	0.0
97374.000	66.00	817.70	808.30	555.00	805.30	818.88	0.0	0.53	1223.20	1461.29	1316.72	2.84
97424.000	50.00	0.0	0.0	240.00	806.70	816.04	0.0	0.78	1272.90	1404.26	563.28	0.0
97424.000	50.00	0.0	0.0	555.00	806.70	818.88	0.0	1.05	1236.99	1439.72	1037.21	2.84
D 97474.000	50.00	0.0	0.0	240.00	808.10	816.04	0.0	1.08	1290.61	1395.93	399.27	0.0
97474.000	50.00	0.0	0.0	555.00	808.10	818.87	0.0	1.35	1254.70	1422.23	778.14	2.84
*E 98274.000	800.00	0.0	0.0	171.00	824.40	826.76	826.76	6.88	1257.62	1274.90	24.84	0.0
98274.000	800.00	0.0	0.0	411.00	824.40	828.10	828.10	7.81	1232.18	1282.37	61.02	1.34

SUMMARY OF ERRORS

CAUTION SECNO=89400.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=89400.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=89400.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=89400.000 PROFILE= 1 SLOPE TOO STEEP
CAUTION SECNO=89400.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=89400.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=89400.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=93280.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=93280.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=93280.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=93280.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=93280.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=93280.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=96808.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=96808.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=96808.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=96808.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=96808.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=96808.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=98274.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=98274.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=98274.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=98274.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=98274.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=98274.000 PROFILE= 2 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		
		10'	2'	0.2'
87060.000	0.	738.7	740.1	0.0
88010.000	50.	735.3	736.6	120.3
88060.000	100.	*****	*****	*****
88092.000	132.	0.2	1.1	*****
88142.000	182.	739.6	741.0	0.0
88192.000	232.	*****	*****	*****
89400.000	1440.	336.2	338.6	-96.9
91480.000	3520.	20.2	21.6	-1.6
91530.000	3570.	754.9	756.4	265.3
91555.000	3595.	*****	*****	*****
91581.000	3621.	20.7	22.4	*****
91606.000	3646.	760.3	762.1	0.0
91656.000	3696.	*****	*****	*****
93280.000	5320.	334.9	336.7	*****
93330.000	5370.	777.2	779.1	0.0
93380.000	5420.	764.6	766.2	*****
93408.000	5448.	*****	*****	*****
93458.000	5498.	18.3	21.4	-4.8
93508.000	5548.	778.7	781.3	0.0
95558.000	7598.	*****	*****	*****
96808.000	8848.	*****	*****	*****
97208.000	9248.	809.1	810.3	0.0
97258.000	9298.	805.5	806.8	*****
97308.000	9348.	*****	*****	*****
97374.000	9414.	55.8	58.7	*****
97424.000	9464.	816.0	818.9	0.0
97474.000	9514.	*****	*****	*****
98274.000	10314.	*****	*****	*****

WEIGHTED AVG FOR REACH **** * * * *

FHF FOR THE REACH = 200 WITH 0.0% OF THE REACH WITHIN 3.0 FEET.
 ZONE FOR THE REACH = A30

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA			WTD. AVG.	FHF	PERCENT WITHIN
		10'	1'	DIFF.			
1	0.					SEC. 87060.000	
	100.	739.0	3.7	735.3	735.3	005	100.
	50.					SEC. 88010.000	
	100.					SEC. 88060.000	
	132.					SEC. 88092.000	

2	182.	200.	739.6	262.1	477.5	606.4	SEC.	88142.000	0.
3	232.	300.	739.7	960.5	-220.9	330.6	SEC.	88192.000	0.
4	400.	400.	739.9	1353.5	-613.6	94.6	SEC.	005	0.
5	500.	500.	740.2	1266.6	-526.5	-29.6	SEC.	005	0.
6	600.	700.	740.4	1179.8	-439.3	-97.9	SEC.	005	0.
7	700.	800.	740.7	1092.9	-352.2	*****	SEC.	005	0.
8	800.	900.	741.0	1006.0	-265.1	*****	SEC.	005	0.
9	900.	1000.	741.3	919.2	-177.9	*****	SEC.	005	0.
10	1000.	1100.	741.5	832.3	-90.8	*****	SEC.	005	0.
11	1100.	1200.	741.8	745.5	-3.6	*****	SEC.	005	0.
12	1200.	1300.	742.1	658.6	83.5	-94.1	SEC.	005	0.
13	1300.	1400.	742.4	571.7	170.6	-68.9	SEC.	005	0.
14	1400.	1440.	742.6	484.9	257.8	SEC.	89400.000	0.	
15	1500.	1500.	743.1	428.9	314.2	-43.4	SEC.	200	0.
16	1500.	1500.	743.8	424.3	319.5	-20.7	SEC.	200	0.
17	1700.	1700.	744.6	440.3	304.3	-1.6	SEC.	015	0.
18	1800.	1800.	745.4	456.3	289.1	14.6	SEC.	005	0.
19	1900.	1900.	746.2	472.3	273.9	28.2	SEC.	005	0.
20	2000.	2000.	747.0	488.3	258.7	39.7	SEC.	005	0.
21	2100.	2100.	747.8	504.3	243.5	49.4	SEC.	005	0.
22	2200.	2200.	748.6	520.3	228.3	57.6	SEC.	005	0.
23	2300.	2300.	749.4	536.3	213.1	64.3	SEC.	005	0.
24	2400.	2400.	750.2	552.3	197.9	69.9	SEC.	005	0.
25	2500.	2500.	751.0	568.2	182.8	74.4	SEC.	005	0.
26	2600.	2600.	751.8	584.2	167.6	78.0	SEC.	005	0.
27	2700.	2700.	752.6	600.2	152.4	80.7	SEC.	005	0.
28	2800.	2800.	753.4	616.2	137.2	82.8	SEC.	005	0.
29	2900.	2900.	754.2	632.2	122.0	84.1	SEC.	005	0.
30	3000.	3000.	755.0	648.2	106.8	84.9	SEC.	005	0.
31	3100.	3100.	755.8	664.2	91.6	85.1	SEC.	005	0.
32	3200.	3200.	756.6	680.2	76.4	84.8	SEC.	005	0.
33	3300.	3300.	757.4	696.2	61.2	84.1	SEC.	005	0.
34	3400.	3400.	758.2	712.2	46.0	83.0	SEC.	005	0.
35	3500.	3500.	759.0	728.2	30.8	81.5	SEC.	005	0.
36	3520.	3570.	759.7	*****	*****	*****	SEC.	91480.000	0.
37	3600.	3621.	760.4	1454.7	-694.3	*****	SEC.	91581.000	0.
38	3696.	3646.	760.9	1422.2	-661.3	*****	SEC.	91606.000	0.
39	3700.	3696.	761.8	1359.6	-597.9	*****	SEC.	91656.000	0.
40	4000.	4000.	762.6	1297.1	-534.4	*****	SEC.	005	0.
41	4100.	4100.	763.5	1234.5	-471.0	*****	SEC.	005	0.
42	4200.	4200.	764.4	1171.9	-407.5	*****	SEC.	005	0.
43	4300.	4300.	765.3	1109.3	-344.0	*****	SEC.	005	0.
44	4400.	4400.	766.2	1046.7	-280.6	*****	SEC.	005	0.
45	4500.	4500.	767.0	984.2	-217.1	*****	SEC.	005	0.
46	4600.	4600.	767.9	921.6	-153.7	*****	SEC.	005	0.
47	4700.	4700.	768.8	859.0	-90.2	*****	SEC.	005	0.
48	4800.	4800.	769.7	796.4	-26.8	*****	SEC.	005	0.
49	4900.	4900.	770.5	733.8	36.7	*****	SEC.	005	0.
50	5000.	5000.	771.4	671.3	100.2	*****	SEC.	005	0.
51	5100.	5100.	772.3	608.7	163.6	*****	SEC.	005	0.
52	5200.	5200.	773.2	546.1	227.1	*****	SEC.	005	0.
53	5300.	5320.	774.1	483.5	290.5	*****	SEC.	005	0.
54	5400.	5420.	777.2	3.8	773.4	*****	SEC.	93280.000	0.
	5448.	5448.				*****	SEC.	93330.000	0.
						*****	SEC.	93408.000	0.

	5498.				SEC. 93458.000		
55	5500.	777.9	744.4	33.5	*****	200	0.
	5548.				SEC. 93508.000		
56	5600.	778.5	581.5	397.1	*****	200	0.
57	5700.	779.4	66.1	713.3	*****	200	0.
58	5800.	780.0	131.0	649.0	*****	200	0.
59	5900.	780.6	195.8	584.8	*****	200	0.
60	6000.	781.2	260.6	520.6	*****	200	0.
61	6100.	781.9	525.4	456.4	*****	200	0.
62	6200.	782.5	590.3	392.2	*****	200	0.
63	6300.	783.1	455.1	328.0	*****	200	0.
64	6400.	783.7	519.9	263.8	*****	200	0.
65	6500.	784.4	584.8	199.6	*****	200	0.
66	6600.	785.0	649.6	135.4	*****	200	0.
67	6700.	785.6	714.4	71.2	*****	200	0.
68	6800.	786.2	779.2	7.0	*****	200	0.
69	6900.	786.9	844.1	-57.2	*****	200	0.
70	7000.	787.5	908.9	-121.4	*****	200	0.
71	7100.	788.1	973.7	-185.6	*****	200	0.
72	7200.	788.7	1038.6	-249.8	*****	200	0.
73	7300.	789.4	1103.4	-314.0	*****	200	0.
74	7400.	790.0	1168.2	-378.2	*****	200	0.
75	7500.	790.6	1233.1	-442.5	*****	200	0.
	7598.				SEC. 95558.000		
76	7600.	791.2	1297.4	-506.2	*****	200	0.
77	7700.	792.2	1338.7	-546.5	*****	200	0.
78	7800.	793.4	1357.3	-563.9	*****	200	0.
79	7900.	794.7	1375.9	-581.2	*****	200	0.
80	8000.	795.9	1394.5	-598.6	*****	200	0.
81	8100.	797.2	1413.1	-615.9	*****	200	0.
82	8200.	798.5	1431.8	-633.3	*****	200	0.
83	8300.	799.7	1450.4	-650.7	*****	200	0.
84	8400.	801.0	1469.0	-668.0	*****	200	0.
85	8500.	802.2	1487.6	-685.4	*****	200	0.
86	8600.	803.5	1506.2	-702.7	*****	200	0.
87	8700.	804.7	1524.8	-720.1	*****	200	0.
88	8800.	806.0	1543.4	-737.4	*****	200	0.
	8848.				SEC. 96808.000		
89	8900.	807.0	1455.7	-648.7	*****	200	0.
90	9000.	807.7	1163.5	-355.7	*****	200	0.
91	9100.	808.2	773.0	35.1	*****	200	0.
92	9200.	808.6	582.6	426.0	*****	200	0.
	9248.				SEC. 97208.000		
	9298.				SEC. 97258.000		
93	9300.	809.2	1835.2	*****	*****	200	0.
	9348.				SEC. 97308.000		
94	9400.	811.9	*****	*****	*****	200	0.
	9414.				SEC. 97374.000		
	9464.				SEC. 97424.000		
95	9500.	816.0	478.4	337.6	*****	200	0.
	9514.				SEC. 97474.000		
96	9600.	816.6	1156.4	-359.7	*****	200	0.
97	9700.	817.9	1371.4	-553.6	*****	200	0.
98	9800.	819.2	1402.7	-583.5	*****	200	0.
99	9900.	820.5	1433.9	-613.3	*****	200	0.
100	10000.	821.9	1465.1	-643.2	*****	200	0.
101	10100.	823.2	1496.3	-673.1	*****	200	0.
102	10200.	824.6	1527.5	-702.9	*****	200	0.
103	10300.	825.9	1558.7	-732.8	*****	200	0.
	10314.				SEC. 98274.000		

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 1 103
A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.