THIS RUN EXECUTED 11/11/81 7:48:47

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************

T1      YANCEY CO NC FEMA STUDY          AYLES1                                  5
T2      10 YR FLOOD                      GD HCDQ113                             10
T3      AYLES CREEK                      FLOOD PROFILES                         15

J1  ICHECK     INQ    NINV    IDIR    STRT  METRIC   HVINS      Q      WSEL    FQ
         0.      2.      0.      0. 0.00884      0.    0.0       0.    0.0     0.0      20

J2  NPROF   IPLOT   PRFVS    XSECV   XSECH      FN   ALLDC     IBW   CHNIM ITRACE
         0.      0.    -1.      0.      0.    0.0     0.0       0.      0.      0.      25

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

      150.00     0.0  160.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0      30

   QT      5.   1045.   1805.   2220.   3425.   2220.       0.      0.      0.      0.      35
   NC  0.070   0.070   0.045     0.1     0.5                                                40

   X1   0.03     22.    614.    644.      0.      0.      0.     0.0     0.0      0.      45
   GR 2466.5    500.  2465.0    520.  2463.4    534.  2459.6    543.  2459.8    551.      50
   GR 2460.5    554.  2455.0    562.  2455.9    568.  2455.8    590.  2480.0    590.      55
   GR 2480.0    610.  2455.5    610.  2455.5    614.  2447.6    614.  2447.0    623.      60
   GR 2447.6    632.  2451.0    640.  2452.0    644.  2455.2    644.  2454.8    655.      65
   GR 2454.9    675.  2480.0    675.     0.0      0.     0.0      0.     0.0      0.      70

   X1   0.03      0.      0.      0.     40.     40.     40.     0.0     0.0      0.      75
   X3     10.     0.0     0.0      0.     0.0      0.     0.0  2455.0  2454.9               80
   SB   1.25    1.60    3.00      0.   24.00    0.90  150.00     0.0  2447.0  2447.0      85

   X1   0.03      0.      0.      0.     32.     32.     32.     0.0     0.0      0.      90
   XZ      0.     0.0      1.  2453.5  2455.4     0.0      0.     0.0     0.0      0.      95
   X3     10.     0.0     0.0      0.     0.0      0.     0.0  2455.5  2455.4               100
   BT   16.0   500.0  2466.5     0.0   520.0  2465.0     0.0   534.0  2463.4     0.0      105
   BT  543.0  2459.6     0.0   551.0  2459.8     0.0   554.0  2460.5     0.0   562.0      110
   BT 2455.0     0.0   568.0  2455.9     0.0   590.0  2455.8     0.0   590.0  2480.0      115
   BT    0.0   610.0  2480.0     0.0   610.0  2455.5     0.0   614.0  2455.5     0.0      120
   BT  655.0  2455.4     0.0   675.0  2455.4     0.0   675.0  2480.0     0.0     0.0      125

   X1   0.03     25.    614.    644.     10.     10.     10.     0.0     0.0      0.      130
   GR 2466.5    500.  2465.0    520.  2463.4    534.  2459.6    543.  2459.8    551.      135
   GR 2460.5    554.  2455.0    562.  2455.9    568.  2455.8    590.  2480.0    590.      140
   GR 2480.0    610.  2455.5    610.  2455.5    614.  2449.0    614.  2448.4    623.      145
   GR 2449.1    632.  2452.6    640.  2453.5    644.  2455.2    644.  2454.8    655.      150
   GR 2454.9    675.  2455.5    700.  2455.7    725.  2456.6    741.  2469.9    773.      155
```

B01

```
QT      5.    1035.    1790.    2200.    3395.    2200.       0.       0.       0.       0.  160
NC  0.100   0.070    0.045      0.0      0.0                                                   165

X1   0.08     20.     364.     400.     200.     200.     200.      0.0      0.0       0.  170
GR 2473.3    100.   2465.4    119.   2465.2    132.   2463.7    183.   2459.1    208.  175
GR 2457.1    253.   2456.2    364.   2452.5    369.   2451.7    375.   2452.5    382.  180
GR 2452.7    392.   2452.7    398.   2454.7    400.   2457.0    419.   2455.7    440.  185
GR 2457.4    453.   2457.5    472.   2456.4    476.   2460.0    512.   2463.7    523.  190

X1   0.08     20.     364.     400.      80.      80.      80.      0.0      0.0       0.  195
GR 2473.3    100.   2465.4    119.   2465.2    132.   2463.7    183.   2459.1    208.  200
GR 2457.1    253.   2456.2    364.   2452.5    369.   2451.7    375.   2452.5    382.  205
GR 2452.7    392.   2452.7    398.   2454.7    400.   2457.0    419.   2455.7    440.  210
GR 2457.4    453.   2457.5    472.   2456.4    476.   2460.0    512.   2463.7    523.  215
SB   1.25    1.60     3.00       0.   17.00     0.30    90.00      0.0   2451.7   2451.7  220

X1   0.08       0.       0.       0.      10.      10.      10.      0.0      0.0       0.  225
X2     0.     0.0        1.   2457.1   2457.7      0.0       0.      0.0      0.0       0.  230
BT   12.0    100.0   2473.3      0.0    119.0   2465.4      0.0    132.0   2465.2      0.0  235
BT  183.0   2463.7      0.0    208.0   2459.1      0.0    240.0   2457.7      0.0    355.0  240
BT 2459.4      0.0    385.0   2459.5      0.0    400.0   2459.5      0.0    503.0   2459.2  245
BT    0.0    512.0   2460.0      0.0    523.0   2463.7      0.0      0.0      0.0       0.  250
NC  0.140   0.140    0.045      0.0      0.0                                                   255

X1   0.08     20.     364.     400.      20.      20.      20.      0.0     2.30       0.  260
GR 2473.3    100.   2465.4    119.   2465.2    132.   2463.7    183.   2459.1    208.  265
GR 2457.1    253.   2456.2    364.   2452.5    369.   2451.7    375.   2452.5    382.  270
GR 2452.7    392.   2452.7    398.   2454.7    400.   2457.0    419.   2455.7    440.  275
GR 2457.4    453.   2457.5    472.   2456.4    476.   2460.0    512.   2463.7    523.  280
QT      5.    1025.    1770.    2175.    3350.    2175.       0.       0.       0.       0.  285
NC  0.090   0.090    0.055      0.0      0.8                                                   290

X1   0.15     21.     505.     543.     300.     300.     300.      0.0    -0.70       0.  295
GR 2479.5    100.   2467.9    146.   2467.4    175.   2466.9    218.   2463.8    417.  300
GR 2463.8    442.   2463.3    455.   2462.9    480.   2462.5    505.   2457.9    530.  305
GR 2457.9    535.   2459.3    538.   2462.3    543.   2463.5    588.   2466.1    602.  310
GR 2465.9    610.   2469.6    621.   2471.0    648.   2470.0    668.   2473.7    700.  315
GR 2480.0    736.      0.0       0.      0.0       0.      0.0       0.      0.0       0.  320
NC   0.0      0.0      0.0       0.      0.5                                                   325

X1   0.16       0.       0.       0.      60.      60.      60.      0.0     0.70       0.  330
X3     10.     0.0      0.0       0.      0.0       0.      0.0   2463.3   2463.7           335
SB   1.25     1.60     3.00       0.   22.00     0.30   100.00      0.0   2457.9   2457.9  340

X1   0.16       0.       0.       0.      31.      31.      31.      0.0      0.0       0.  345
X2     0.     0.0        1.   2462.5   2463.8      0.0       0.      0.0      0.0       0.  350
X3     10.     0.0      0.0       0.      0.0       0.      0.0   2463.8   2464.2           355
BT   18.0    100.0   2479.5      0.0    146.0   2467.9      0.0    175.0   2467.4      0.0  360
BT  218.0   2466.9      0.0    417.0   2463.8      0.0    442.0   2463.8      0.0    516.0  365
BT 2464.3      0.0    516.0   2465.7      0.0    543.0   2465.5      0.0    543.0   2464.2  370
BT    0.0    595.0   2464.8      0.0    602.0   2466.1      0.0    610.0   2465.9      0.0  375
BT  621.0   2469.6      0.0    648.0   2471.0      0.0    668.0   2470.0      0.0    700.0  380
BT 2473.7      0.0    736.0   2480.0      0.0      0.0      0.0      0.0      0.0       0.  385
```

C01

NC	0.100	0.090	0.045	0.0	0.0						390
X1	0.16	21.	505.	543.	15.	15.	15.	0.0	0.0	0.	395
GR	2479.5	100.	2467.9	146.	2467.4	175.	2466.9	218.	2463.8	417.	400
GR	2463.8	442.	2463.3	455.	2462.9	480.	2462.5	505.	2458.6	527.	405
GR	2457.9	535.	2459.3	538.	2462.3	543.	2463.5	588.	2466.1	602.	410
GR	2465.9	610.	2469.6	621.	2471.0	648.	2470.0	668.	2473.7	700.	415
GR	2480.0	736.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	420
QT	5.	1005.	1740.	2135.	3290.	2135.	0.	0.	0.	0.	425
NC	0.100	0.130	0.050	0.0	0.8						430
X1	0.26	14.	60.	92.	495.	495.	495.	0.0	-0.30	0.	435
GR	2494.1	0.	2471.2	45.	2468.7	60.	2466.8	71.	2466.3	81.	440
GR	2466.9	85.	2467.7	92.	2471.1	123.	2475.3	143.	2476.8	147.	445
GR	2476.8	153.	2475.3	156.	2490.9	176.	2491.0	198.	0.0	0.	450
X1	0.27	0.	0.	0.	40.	40.	40.	0.0	0.30	0.	455
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2472.8	2471.7		460
SB	1.25	1.60	3.00	0.	21.00	0.10	115.00	0.0	2466.3	2466.3	465
X1	0.27	0.	0.	0.	10.	10.	10.	0.0	0.0	0.	470
X2	0.	0.0	1.	2471.8	2472.2	0.0	0.	0.0	0.0	0.	475
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2473.3	2472.2		480
BT	13.0	0.0	2494.1	0.0	40.0	2474.0	0.0	61.0	2473.1	0.0	485
BT	61.0	2473.5	0.0	93.0	2472.8	0.0	93.0	2472.2	0.0	133.0	490
BT	2473.3	0.0	143.0	2475.3	0.0	147.0	2476.8	0.0	153.0	2476.8	495
BT	0.0	156.0	2475.3	0.0	176.0	2490.9	0.0	198.0	2491.0	0.0	500
NC	0.150	0.150	0.055	0.0	0.0						505
X1	0.28	0.	0.	0.	10.	10.	10.	0.0	3.70	0.	510
QT	5.	980.	1695.	2080.	3205.	2080.	0.	0.	0.	0.	515
NC	0.150	0.150	0.050	0.0	0.0						520
X1	0.42	16.	160.	194.	750.	750.	750.	0.0	-2.00	0.	525
GR	2509.5	100.	2505.0	110.	2502.3	123.	2496.4	136.	2496.0	150.	530
GR	2495.5	160.	2489.3	173.	2489.5	180.	2489.5	183.	2493.2	194.	535
GR	2493.2	252.	2495.1	283.	2505.3	303.	2505.9	330.	2505.4	335.	540
GR	2510.0	358.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	545
X1	0.43	0.	0.	0.	60.	60.	60.	0.0	2.00	0.	550
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2496.8	2494.7		555
SB	1.25	1.60	3.00	0.	20.00	0.01	108.00	0.0	2489.3	2489.3	560
X1	0.43	0.	0.	0.	10.	10.	10.	0.0	0.0	0.	565
X2	0.	0.0	1.	2494.7	2495.2	0.0	0.	0.0	0.0	0.	570
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2497.3	2495.2		575
BT	9.0	100.0	2509.5	0.0	110.0	2505.0	0.0	123.0	2502.3	0.0	580
BT	133.0	2497.9	0.0	284.0	2495.2	0.0	303.0	2505.3	0.0	330.0	585
BT	2505.9	0.0	335.0	2505.4	0.0	358.0	2510.0	0.0	0.0	0.0	590
NC	0.150	0.100	0.050	0.0	0.0						595

D01

D01

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X1   0.43     18.    160.    252.     15.     15.     15.    0.0     0.0      0.    600
GR 2512.0    100.   2507.5   110.   2504.8   123.   2498.9   136.   2498.5   150.   605
GR 2498.0    160.   2491.8   173.   2492.0   180.   2492.0   183.   2495.7   194.   610
GR 2491.8    205.   2491.6   228.   2495.7   252.   2497.6   283.   2507.8   303.   615
GR 2508.4    330.   2507.9   335.   2512.5   358.      0.0     0.      0.0      0.   620
QT      5.    975.   1680.   2060.   3175.   2060.       0.     0.       0.      0.   625
NC  0.150   0.100   0.055     0.0     0.8                                            630

X1   0.48     14.     40.    100.    145.    145.    145.    0.0     0.0      0.    635
GR 2517.8      0.   2504.3    30.   2500.3    40.   2493.0    53.   2492.7    58.   640
GR 2492.8     60.   2492.7    70.   2492.3    76.   2493.0    78.   2497.0   100.   645
GR 2500.0    116.   2500.0   142.   2504.7   247.   2514.2   265.      0.0      0.   650
NC   0.0      0.0     0.0     0.0     0.5                                            655

X1   0.48     13.     60.    78.     80.     80.     80.    0.0     0.0      0.    660
X3     10.     0.0     0.0     0.     0.0     0.     0.0 2499.0  2499.0              665
GR 2517.8      0.   2504.3    30.   2500.3    40.   2493.0    53.   2492.7    58.   670
GR 2492.8     60.   2492.7    70.   2492.3    76.   2493.0    78.   2500.0   116.   675
GR 2500.0    142.   2504.7   247.   2514.2   265.      0.0     0.      0.0      0.   680
SB   1.25    1.60    3.00      0.    18.00    0.90  115.00    0.0  2492.3   2492.3   685

X1   0.48      0.      0.      0.     10.     10.     10.    0.0     0.0      0.    690
X2     0.    0.0      1.  2499.0  2499.8     0.0      0.    0.0     0.0      0.    695
X3     10.     0.0     0.0     0.     0.0     0.     0.0 2499.8  2501.0              700
BT    8.0     0.0  2517.8     0.0    30.0  2504.3     0.0   40.0  2500.3     0.0   705
BT   41.0  2499.8     0.0    50.0  2500.0     0.0    80.0  2501.0     0.0   248.0  710
BT 2505.0     0.0   265.0  2514.2     0.0     0.0     0.0    0.0     0.0      0.0   715

X1   0.48     14.     40.    100.     20.     20.     20.    0.0    3.20      0.    720
GR 2517.8      0.   2504.3    30.   2500.3    40.   2493.0    53.   2492.7    58.   725
GR 2492.8     60.   2492.7    70.   2492.3    76.   2493.0    78.   2497.0   100.   730
GR 2500.0    116.   2500.0   142.   2504.7   247.   2514.2   265.      0.0      0.   735
QT      5.    960.   1650.   2025.   3120.   2025.       0.     0.       0.      0.   740
NC  0.160   0.160   0.055     0.0     0.8                                            745

X1   0.57     11.    201.    245.    440.    440.    440.    0.0   -0.30      0.    750
GR 2521.6    100.   2510.6   154.   2509.5   178.   2507.1   201.   2502.3   216.   755
GR 2502.6    227.   2502.3   230.   2503.0   236.   2507.5   245.   2517.0   263.   760
GR 2522.6    276.      0.0     0.      0.0     0.      0.0     0.      0.0      0.   765
NC   0.0      0.0     0.0     0.0     0.5                                            770

X1   0.58      0.      0.      0.     80.     80.     80.    0.0    0.30      0.    775
X3     10.     0.0     0.0     0.     0.0     0.     0.0 2511.4  2511.5              780
SB   1.25    1.60    3.00      0.    10.00    3.10  155.00    1.78  2502.3   2502.3   785

X1   0.58      0.      0.      0.     10.     10.     10.    0.0     0.0      0.    790
X2     0.    0.0      1.  2509.9  2511.9     0.0      0.    0.0     0.0      0.    795
X3     10.     0.0     0.0     0.     0.0     0.     0.0 2511.9  2512.0              800
BT    6.0   100.0  2521.6     0.0   145.0  2512.4     0.0  180.0  2511.9     0.0   805
BT  253.0  2512.0     0.0   263.0  2517.0     0.0   276.0  2522.6     0.0      0.0   810

X1   0.58      0.      0.      0.     20.     20.     20.    0.0    3.00      0.    815
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E01

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X1   0.58      0.      0.      0.     20.     20.     20.     0.0    5.00      0.    815
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EO1

```
QT       5.    940.   1620.   1985.   3055.   1985.      0.      0.      0.      0.  820
NC   0.150   0.150   0.060     0.0     0.8                                           825

X1    0.69     18.    250.    276.    550.    550.    550.     0.0     0.0      0.  830
GR 2537.0    100.   2523.1   137.   2519.3   185.   2519.4   190.   2519.0   195.  835
GR 2518.8    200.   2519.4   250.   2514.1   255.   2513.7   260.   2513.1   266.  840
GR 2517.5    276.   2529.4   292.   2529.1   295.   2531.2   320.   2530.2   323.  845
GR 2532.3    337.   2535.7   339.   2537.1   350.      0.0     0.     0.0      0.  850

X1    0.70     18.    250.    276.     40.     40.     40.     0.0     0.0      0.  855
GR 2539.5    100.   2525.6   137.   2520.1   205.   2521.4   235.   2521.4   240.  860
GR 2521.9    244.   2521.9   250.   2516.6   255.   2516.2   260.   2515.6   266.  865
GR 2520.0    276.   2531.9   292.   2531.6   295.   2533.7   320.   2532.7   323.  870
GR 2535.8    337.   2538.2   339.   2539.6   350.      0.0     0.     0.0      0.  875
SB    1.25    1.60    3.00      0.    6.00    0.01   45.00     0.0  2515.6   2515.6  880

X1    0.70      0.      0.      0.     30.     30.     30.     0.0     0.0      0.  885
X2      0.    0.0      1.  2523.1  2520.1     0.0      0.     0.0     0.0      0.  890
BT    15.0   100.0  2539.5     0.0   137.0  2525.6     0.0   205.0  2520.1     0.0  895
BT   235.0  2521.4     0.0   240.0  2521.4     0.0   254.0  2523.2     0.0   257.0  900
BT  2524.0     0.0   288.0  2529.3     0.0   292.0  2531.9     0.0   295.0  2531.6  905
BT     0.0   320.0  2533.7     0.0   323.0  2532.7     0.0   337.0  2535.8     0.0  910
BT   339.0  2538.2     0.0   350.0  2539.6     0.0     0.0     0.0     0.0     0.0  915
QT       5.    935.   1610.   1980.   3045.   1980.      0.      0.      0.      0.  920
NC   0.130   0.130   0.045     0.0     0.0                                           925

X1    0.72     18.     89.    121.     40.     40.     40.     0.0     0.0      0.  930
X3      10.    0.0      0.      0.     0.0      0.     0.0  2521.6  2522.1          935
GR 2540.3     34.   2524.5     68.   2523.1     75.   2523.0     86.   2523.5     89.  940
GR 2516.8     98.   2516.8    100.   2516.6    105.   2516.9    113.   2518.6    115.  945
GR 2522.7    121.   2523.8    137.   2523.6    143.   2534.4    155.   2535.3    160.  950
GR 2535.0    180.   2534.2    182.   2540.2    186.      0.0     0.     0.0      0.  955
SB    1.25    1.60    3.00      0.    15.00    0.10   55.00     0.0  2516.6   2516.6  960

X1    0.72      0.      0.      0.     10.     10.     10.     0.0     0.0      0.  965
X2      0.    0.0      1.  2520.3  2522.1     0.0      0.     0.0     0.0      0.  970
X3      10.    0.0      0.      0.     0.0      0.     0.0  2522.1  2522.6          975
BT    14.0    34.0  2540.3     0.0    68.0  2524.5     0.0    75.0  2523.1     0.0  980
BT    86.0  2523.0     0.0    89.0  2523.5     0.0    90.0  2522.1     0.0   121.0  985
BT  2522.7     0.0   137.0  2523.8     0.0   143.0  2523.6     0.0   155.0  2534.4  990
BT     0.0   160.0  2535.3     0.0   180.0  2535.0     0.0   182.0  2534.2     0.0  995
BT   186.0  2540.2     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0 1000
NC   0.130   0.150   0.045     0.0     0.0                                          1005

X1    0.72     16.     89.    121.     10.     10.     10.     0.0     0.0      0. 1010
GR 2540.3     34.   2524.5     68.   2523.1     75.   2523.0     86.   2523.5     89. 1015
GR 2518.5     91.   2518.2    103.   2518.6    115.   2522.7    121.   2523.8    137. 1020
GR 2523.6    143.   2534.4    155.   2535.3    160.   2535.0    180.   2534.2    182. 1025
GR 2540.2    186.      0.0     0.      0.0      0.     0.0     0.      0.0      0.  1030
QT       5.    920.   1585.   1945.   2995.   1945.      0.      0.      0.      0. 1035
NC   0.150   0.150   0.055     0.0     0.8                                          1040

X1    0.80     11.     93.    135.    490.    490.    490.     0.0    1.00      0. 1045
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FO1

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GR 2550.7     0.  2535.9    11.  2531.2    53.  2529.8    76.  2529.2    93.  1050
GR 2524.1   101.  2523.5   110.  2522.8   120.  2522.5   124.  2529.5   135.  1055
GR 2545.8   163.     0.0     0.     0.0     0.     0.0     0.     0.0     0.  1060
NC   0.0     0.0     0.0     0.0     0.5                                       1065

X1   0.81    11.    93.    135.    60.    60.    60.     0.0     0.0     0.  1070
GR 2550.7     0.  2535.9    11.  2531.2    53.  2529.8    76.  2529.2    93.  1075
GR 2524.1   101.  2523.5   110.  2522.8   120.  2522.5   124.  2529.5   135.  1080
GR 2545.8   163.     0.0     0.     0.0     0.     0.0     0.     0.0     0.  1085
SB   1.25    1.60    3.00     0.   10.00    0.30  60.00     0.0  2522.5  2522.5 1090

X1   0.81     0.      0.      0.    10.    10.    10.     0.0     0.0     0.  1095
X2    0.     0.0      1.  2528.7  2531.8   0.0     0.     0.0     0.0     0.  1100
BT    6.0     0.0  2550.7     0.0    11.0 2535.9     0.0    46.0  2532.0     0.0 1105
BT  110.0  2532.1     0.0   139.0  2531.8     0.0   163.0  2545.8     0.0     0.0 1110
NC  0.110   0.090   0.045     0.0     0.0                                       1115

X1   0.81    11.    93.    135.    15.    15.    15.     0.0     2.30    0.  1120
GR 2550.7     0.  2535.9    11.  2531.2    53.  2529.8    76.  2529.2    93.  1125
GR 2524.1   101.  2523.5   110.  2522.8   120.  2522.5   124.  2529.5   135.  1130
GR 2545.8   163.     0.0     0.     0.0     0.     0.0     0.     0.0     0.  1135
QT     5.   905.  1555.  1910.  2935.  1910.     0.      0.      0.      0.  1140
NC  0.110   0.120   0.050     0.0     0.8                                       1145

X1   0.91    22.   248.   288.   415.   415.   415.     0.0     0.0     0.  1150
GR 2553.5     0.  2546.3    27.  2543.5    63.  2540.9    71.  2541.4    76.  1155
GR 2541.3    81.  2540.2    86.  2539.6   100.  2537.3   108.  2536.5   208.  1160
GR 2537.2   248.  2531.3   263.  2531.3   278.  2536.4   288.  2539.0   360.  1165
GR 2538.7   367.  2544.2   382.  2545.6   400.  2547.5   409.  2547.3   427.  1170
GR 2546.5   432.  2553.4   448.     0.0     0.     0.0     0.     0.0     0.  1175
NC   0.0     0.0     0.0     0.0     0.5                                       1180

X1   0.92     0.      0.      0.    40.    40.    40.     0.0     0.0     0.  1185
X3    10.     0.0     0.0     0.     0.0     0.     0.0  2536.0  2535.9         1190
SB   1.25    1.60    3.00     0.   14.00    0.30  55.00     0.0  2531.3  2531.3 1195

X1   0.92     0.      0.      0.    12.    12.    12.     0.0     0.0     0.  1200
X2    0.     0.0      1.  2535.3  2536.5   0.0     0.     0.0     0.0     0.  1205
X3    10.     0.0     0.0     0.     0.0     0.     0.0  2536.5  2536.4         1210
BT   23.0     0.0  2553.5     0.0    27.0 2546.3     0.0    63.0  2543.5     0.0 1215
BT   71.0  2540.9     0.0    76.0  2541.4     0.0    81.0  2541.3     0.0    86.0 1220
BT 2540.2     0.0   100.0  2539.6     0.0   108.0  2537.3     0.0   208.0  2536.5 1225
BT    0.0   248.0  2537.2     0.0   251.0  2536.3     0.0   268.0  2536.4     0.0 1230
BT  287.0  2536.0     0.0   288.0  2536.4     0.0   347.0  2538.5     0.0   374.0 1235
BT 2540.9     0.0   382.0  2544.2     0.0   400.0  2545.6     0.0   409.0  2547.5 1240
BT    0.0   427.0  2547.3     0.0   432.0  2546.5     0.0   448.0  2553.4     0.0 1245
NC  0.090   0.090   0.045     0.0     0.0                                       1250

X1   0.92    25.   248.   288.    10.    10.    10.     0.0     0.0     0.  1255
GR 2553.5     0.  2546.3    27.  2543.5    63.  2540.9    71.  2541.4    76.  1260
GR 2541.3    81.  2540.2    86.  2539.6   100.  2537.3   108.  2536.5   208.  1265
GR 2537.2   248.  2533.5   258.  2534.6   261.  2532.9   269.  2532.6   276.  1270
GR 2533.4   282.  2536.4   288.  2539.0   360.  2538.7   367.  2544.2   382.  1275
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GR 2545.6   400.  2547.5   409.  2547.3   427.  2546.5   432.  2553.4   448.  1280
QT      5.   850.  1465.  1795.  2750.  1795.     0.     0.     0.     0.  1285
NC  0.080 0.080  0.045   0.0    0.0                                          1290

X1   1.25    20.   412.   440.  1760.  1760.  1760.   0.0  -6.60    0.  1295
GR 2581.8     0. 2570.9    32.  2571.1    36.  2571.1    42.  2570.2    49.  1300
GR 2567.7    82. 2565.3   182.  2565.5   295.  2566.1   402.  2566.1   412.  1305
GR 2561.0   419. 2560.4   421.  2560.5   425.  2560.2   431.  2561.0   435.  1310
GR 2566.5   440. 2566.5   475.  2571.8   481.  2574.6   581.  2581.9   712.  1315
QT      5.   845.  1455.  1785.  2735.  1785.     0.     0.     0.     0.  1320

X1   1.28     0.     0.     0.   150.   150.   150.   0.0   6.60    0.  1325
QT      5.   795.  1365.  1675.  2565.  1675.     0.     0.     0.     0.  1330
NC  0.150 0.090  0.045   0.0    0.0                                          1335

X1   1.59    14.    55.   100.  1690.  1690.  1690.   0.0   0.0     0.  1340
GR 2609.3    32. 2598.7    50.  2597.0    50.  2594.5    55.  2586.5    69.  1345
GR 2584.8    87. 2593.7   100.  2596.3   183.  2595.6   190.  2595.7   283.  1350
GR 2597.5   385. 2601.2   462.  2603.9   562.  2609.4   663.     0.0     0.  1355

X1   1.59     0.     0.     0.    40.    40.    40.   0.0   0.0     0.  1360
X3     10.   0.0    0.0    0.   0.0     0.   0.0  2594.0 2594.0         1365
SB   1.25  1.60   3.00     0.  35.00  0.30 260.00   0.0  2584.8 2584.8  1370

X1   1.59     0.     0.     0.    12.    12.    12.   0.0   0.0     0.  1375
X2     0.   0.0     1. 2592.3 2594.5   0.0     0.   0.0   0.0     0.  1380
X3     10.   0.0    0.0    0.   0.0     0.   0.0  2594.5 2594.5         1385
BT   11.0  32.0 2609.3   0.0  50.0 2598.7   0.0  50.0 2597.0   0.0  1390
BT   56.0 2593.5   0.0 183.0 2596.3   0.0 190.0 2595.6   0.0 283.0  1395
BT 2595.7   0.0 385.0 2597.5   0.0 462.0 2601.2   0.0 562.0 2603.9  1400
BT    0.0 663.0 2609.4   0.0   0.0   0.0   0.0   0.0   0.0   0.0  1405

X1   1.60    15.    55.   100.   10.    10.    10.   0.0   0.0     0.  1410
GR 2609.3    32. 2598.7    50.  2597.0    50.  2594.5    55.  2590.1    63.  1415
GR 2588.5    80. 2588.0    85.  2593.7   100.  2596.3   183.  2595.6   190.  1420
GR 2595.7   283. 2597.5   385.  2601.2   462.  2603.9   562.  2609.4   663.  1425
QT      5.   750.  1285.  1575.  2405.  1575.     0.     0.     0.     0.  1430
NC  0.150 0.150  0.050   0.0    0.0                                          1435

X1   1.87    23.   278.   324.  1450.  1450.  1450.   0.0   0.0     0.  1440
GR 2641.5     0. 2633.8    15.  2628.0    24.  2627.3    29.  2627.3    36.  1445
GR 2627.3    40. 2627.3    56.  2627.3   105.  2626.2   248.  2627.8   278.  1450
GR 2622.9   283. 2622.3   292.  2621.5   295.  2622.0   300.  2626.9   324.  1455
GR 2627.6   357. 2631.2   378.  2634.0   435.  2635.3   441.  2636.0   450.  1460
GR 2636.2   483. 2640.7   551.  2642.9   556.     0.0     0.   0.0     0.  1465

X1   1.88    25.   285.   306.    80.    80.    80.   0.0   0.0     0.  1470
GR 2645.6     0. 2637.9    15.  2632.1    24.  2631.4    29.  2631.4    36.  1475
GR 2631.4    40. 2631.4    56.  2631.4   105.  2630.3   248.  2631.9   278.  1480
GR 2627.0   283. 2626.9   285.  2626.4   292.  2625.6   295.  2626.1   300.  1485
GR 2627.2   306. 2631.0   324.  2631.7   357.  2635.3   378.  2638.1   435.  1490
GR 2639.4   441. 2640.1   450.  2640.3   483.  2644.8   551.  2647.0   556.  1495
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SB   1.25    1.60    3.00      0.    21.00    0.01   80.00     0.0  2625.6  2625.6  1500

X1   1.88      0.      0.      0.      16.     16.     16.     0.0     0.0      0.  1505
X2     0.     0.0      1.  2629.4  2631.5     0.0      0.     0.0     0.0     0.0  1510
BT   15.0     0.0  2645.6     0.0    15.0  2637.9     0.0    19.0  2635.5     0.0  1515
BT  286.0  2632.4     0.0   325.0  2631.6     0.0   325.0  2631.8     0.0   348.0  1520
BT 2631.5     0.0   357.0  2631.7     0.0   378.0  2635.3     0.0   435.0  2638.1  1525
BT    0.0   441.0  2639.4     0.0   450.0  2640.1     0.0   483.0  2640.3     0.0  1530
BT  551.0  2644.8     0.0   556.0  2647.0     0.0     0.0     0.0     0.0     0.0  1535
NC  0.080   0.080   0.045     0.0     0.0                                          1540

X1   1.88     25.    278.    324.     10.     10.     10.     0.0     0.0      0.  1545
GR 2645.6      0.  2637.9     15.  2632.1     24.  2631.4     29.  2631.4     36.  1550
GR 2631.4     40.  2631.4     56.  2631.4    105.  2630.3    248.  2631.9    278.  1555
GR 2627.0    283.  2626.9    285.  2626.4    292.  2625.6    295.  2626.1    300.  1560
GR 2627.2    306.  2631.0    324.  2631.7    357.  2635.3    378.  2638.1    435.  1565
GR 2639.4    441.  2640.1    450.  2640.3    483.  2644.8    551.  2647.0    556.  1570
QT     5.    745.  1280.   1565.  2395.   1565.      0.      0.      0.      0.  1575
NC  0.100   0.100   0.055     0.0     0.8                                          1580

X1   1.90     30.    605.    644.     35.     35.     35.     0.0     0.0      0.  1585
X5     -1.    0.0    0.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0  1590
GR 2650.0      0.  2639.5     11.  2638.6     15.  2637.0     51.  2637.8     58.  1595
GR 2636.7    115.  2637.3    195.  2635.0    240.  2635.0    256.  2635.0    262.  1600
GR 2635.0    345.  2635.0    384.  2635.0    410.  2633.9    429.  2633.9    440.  1605
GR 2633.6    443.  2633.4    451.  2632.5    519.  2633.5    528.  2633.5    545.  1610
GR 2633.7    560.  2632.0    580.  2632.5    605.  2626.1    622.  2626.1    628.  1615
GR 2633.0    644.  2635.0    652.  2642.0    768.  2642.0    777.  2649.5    795.  1620
NC   0.0      0.0   0.045     0.0     0.5                                          1625

X1   1.90      0.      0.      0.      10.     10.     10.     0.0     0.0      0.  1630
SB   1.25    1.60    3.00      0.    20.00    0.20  115.00     0.0  2626.1  2626.1  1635

X1   1.90      0.      0.      0.      32.     32.     32.     0.0     0.0      0.  1640
X2     0.     0.0      1.  2631.9  2633.6     0.0      0.     0.0     0.0     0.0  1645
BT   12.0     0.0  2650.0     0.0     4.0  2646.3     0.0   515.0  2634.1     0.0  1650
BT  615.0  2633.6     0.0   615.0  2635.0     0.0   640.0  2635.0     0.0   640.0  1655
BT 2633.8     0.0   648.0  2633.9     0.0   652.0  2635.0     0.0   768.0  2642.0  1660
BT    0.0   777.0  2642.0     0.0   795.0  2649.5     0.0     0.0     0.0     0.0  1665
NC  0.130   0.080   0.050     0.0     0.0                                          1670

X1   1.90     32.    605.    644.     10.     10.     10.     0.0     0.0      0.  1675
GR 2650.0      0.  2639,5     11.  2638.6     15.  2637.0     51.  2637.8     58.  1680
GR 2636.7    115.  2637.3    195.  2635.0    240.  2635.0    256.  2635.0    262.  1685
GR 2635.0    345.  2635.0    384.  2635.0    410.  2633.9    429.  2633.9    440.  1690
GR 2633.6    443.  2633.4    451.  2632.5    519.  2633.5    528.  2633.5    545.  1695
GR 2633.7    560.  2632.0    580.  2632.5    605.  2628.7    614.  2628.3    620.  1700
GR 2628.4    625.  2628.3    633.  2633.0    644.  2635.0    652.  2642.0    768.  1705
GR 2642.0    777.  2649.5    795.     0.0      0.     0.0      0.     0.0      0.  1710
QT     5.    705.  1200.   1470.  2240.   1470.      0.      0.      0.      0.  1715
NC  0.130   0.150   0.045     0.0     0.0                                          1720

X1   2.17     13.    121.    178.   1370.   1370.   1370.     0.0     0.0      0.  1725
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GR 2690.0     1. 2671.3     1. 2671.3    40. 2671.3   115. 2671.3   121.  1730
GR 2662.6   150. 2662.6   158. 2663.0   161. 2674.4   178. 2677.8   275.  1735
GR 2679.3   338. 2679.4   390. 2680.6   434.    0.0     0.    0.0     0.  1740

X1   2.18     0.     0.     0.    60.    60.    60.   0.0    1.50     0.  1745
SB   1.25    1.60   3.00     0.  20.00   0.90 105.00   0.0  2664.1 2664.1  1750

X1   2.18     0.     0.     0.    12.    12.    12.   0.0     0.0     0.  1755
X2     0.    0.0     1. 2669.6 2671.0   0.0     0.   0.0     0.0     0.  1760
BT   12.0    1.0 2690.0    0.0   1.0 2672.8    0.0  40.0  2672.8    0.0  1765
BT  115.0 2672.8    0.0  121.0 2672.8    0.0  128.0 2671.0     0.0  173.0  1770
BT 2672.0    0.0  178.0 2675.9    0.0  275.0 2679.3   0.0   338.0 2680.8  1775
BT    0.0  390.0 2680.9    0.0  434.0 2682.1    0.0   0.0     0.0    0.0  1780
NC 0.130  0.100  0.045    0.0    0.0                                      1785

X1   2.18     0.     0.     0.    15.    15.    15.   0.0     0.0     0.  1790
QT      5.  700.  1195.  1460.  2225.  1460.     0.    0.      0.      0.  1795
NC 0.150  0.120  0.055    0.0    0.8                                      1800

X1   2.21    14.    63.    90.    35.    35.    35.   0.0     0.0     0.  1805
GR 2688.0    25. 2671.3    55. 2670.4    63. 2667.6    72. 2667.8    77.  1810
GR 2667.7    82. 2670.3    90. 2674.0   135. 2674.6   148. 2676.9   260.  1815
GR 2676.8   268. 2677.5   282. 2677.3   342. 2695.5   420.    0.0     0.  1820
NC   0.0   0.0    0.0     0.0    0.5                                      1825

X1   2.21     0.     0.     0.    80.    80.    80.   0.0     0.0     0.  1830
X3     10.   0.0    0.0     0.   0.0     0.   0.0  2675.0  2675.8          1835
SB   1.25    1.60   3.00     0.  25.00   0.70 148.00   0.0  2667.6 2667.6  1840

X1   2.21     0.     0.     0.    39.    39.    39.   0.0     0.0     0.  1845
X2     0.    0.0     1. 2673.7 2675.5   0.0     0.   0.0     0.0     0.  1850
X3     10.   0.0    0.0     0.   0.0     0.   0.0  2675.5  2676.3          1855
BT    8.0   25.0 2688.0    0.0  48.0 2675.5    0.0  59.0  2675.9    0.0  1860
BT   59.0 2677.5    0.0  100.0 2678.0    0.0  100.0 2676.3     0.0  352.0  1865
BT 2679.5    0.0  420.0 2695.5    0.0    0.0    0.0   0.0     0.0    0.0  1870
NC 0.150  0.150  0.050    0.0    0.0                                      1875

X1   2.21     0.     0.     0.    20.    20.    20.   0.0    2.00     0.  1880
QT      5.  685.  1170.  1430.  2180.  1430.     0.    0.      0.      0.  1885
NC 0.150  0.130  0.050    0.0    0.0                                      1890

X1   2.29    19.    54.    90.   380.   380.   380.   0.0     0.0     0.  1895
GR 2698.0     0. 2680.6    40. 2680.8    54. 2678.0    65. 2677.5    70.  1900
GR 2677.7    75. 2678.0    77. 2683.0    90. 2687.1   100. 2685.2   185.  1905
GR 2685.3   200. 2686.7   290. 2686.1   318. 2686.5   370. 2686.2   393.  1910
GR 2687.7   400. 2687.8   415. 2687.3   420. 2698.2   506.    0.0     0.  1915
EJ                                                                       1920
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J01

J01

*PROF 1

CCHV= 0.100 CEHV= 0.500
*SECNO .030
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

AYLES CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.03	1045.	0.	1045.	0.	0.87	0	30.	
2453.05	0.0	0.	140.	0.	0.50	0	2455.50	
6.05	0.0	0.0	7.48	0.0	0.0	2453.92	2455.20	
0.008835	0.0	0.070	0.045	0.070	0.0	-0.00	614.00	
	2447.00	0.	0.	0.	15.	15.	644.00	0.

*SECNO .030

*** GR CARDS REPEATED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2455.00 ELREA= 2454.90

0.03	1045.	0.	1045.	0.	0.72	2	30.	
2453.52	0.0	0.	154.	0.	-0.15	0	2455.50	
6.52	0.0	0.0	6.79	0.0	0.30	2454.24	2455.20	
0.006617	0.044	0.070	0.045	0.070	0.02	-0.00	614.00	
	2447.00	40.	40.	40.	15.	15.	644.00	0.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	24.00	0.90	150.00	0.0

ELCHU	ELCHD
2447.00	2447.00

*SECNO .030

*** GR CARDS REPEATED
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2454.73	2454.32	0.12	0.	1045.	150.	150.	2453.50

ELTRD
2455.40

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2455.50 ELREA= 2455.40

0.03	1045.	0.	1045.	0.	0.56	2	30.
2454.16	0.0	0.	173.	0.	-0.15	0	2455.50
7.16	0.0	0.0	6.03	0.0	0.49	2454.73	2455.20
0.004653	0.044	0.070	0.045	0.070	0.0	-0.00	614.00

K01

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              2447.00      32.       32.       32.       15.       15.    644.00        0.

   *SECNO .030

   3301 HV CHANGED MORE THAN HVINS

        0.03     1045.        0.     1045.        0.      1.13         2       30.
     2453.96       0.0        0.      123.        0.      0.56         0   2455.50
        5.56       0.0       0.0      8.51       0.0      0.07   2455.08   2455.20
    0.013100     0.043     0.070     0.045     0.070      0.28     -0.00    614.00
               2448.40       10.       10.       10.       15.       15.    644.00        0.

   *SECNO .080

   3265 DIVIDED FLOW

       AYLES CREEK                   10 YR FLOOD         11/11/81
      MILE       Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
      ELEV       CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
      DEPTH      WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
      SLOPE      WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
                 ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST      VOL

        0.08     1035.        2.     1000.       33.      0.83         6      106.
     2456.49   2455.69        5.      135.       21.     -0.30        11   2456.20
        4.79       0.0      0.40      7.41      1.61      2.20   2457.31   2454.70
    0.009360     0.044     0.100     0.045     0.070      0.03     -0.00    328.74
               2451.70      200.      200.      200.       53.       95.    476.86        1.

   *SECNO .080

   3265 DIVIDED FLOW

        0.08     1035.       64.      874.       98.      0.35         2      226.
     2457.43       0.0       88.      169.       71.     -0.47         0   2456.20
        5.73       0.0      0.73      5.18      1.37      0.42   2457.78   2454.70
    0.003386     0.044     0.100     0.045     0.070      0.05     -0.00    245.65
               2451.70       80.       80.       80.      136.      104.    486.27        1.

   SPECIAL BRIDGE

   SB     HK      XKOR      COFQ     RDLEN       BWC       BWP     BAREA       SS
        1.25      1.60      3.00       0.0     17.00      0.30     90.00      0.0
      ELCHU      ELCHD
     2451.70   2451.70

   *SECNO .080

   *** GR CAR"S REPEATED
   PRESSURE AND WEIR FLOW

       EGPRS     EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
     2460.71   2457.79      0.02      269.      762.       90.       90.   2457.10

       ELTRD
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L01

L01

2457.70

0.08	1035.	201.	615.	219.	0.07	2	296.	
2459.14	0.0	323.	230.	233.	-0.28	0	2456.20	
7.44	0.0	0.62	2.67	0.94	1.42	2459.21	2454.70	
0.000596	0.044	0.100	0.045	0.070	0.0	-0.00	207.80	
	2451.70	10.	10.	10.	174.	121.	503.36	2.

*SECNO .080

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.08	1035.	1.	1017.	16.	0.88	4	103.	
2458.76	2457.97	5.	134.	20.	0.81	11	2458.50	
4.76	0.0	0.28	7.57	0.82	0.03	2459.64	2457.00	
0.009821	0.044	0.140	0.045	0.140	0.40	-0.00	330.74	
	2454.00	20.	20.	20.	51.	95.	476.70	2.

CCHV= 0.100 CEHV= 0.800
*SECNO .150

0.15	1025.	21.	983.	21.	0.87	7	119.	
2462.53	2462.16	17.	129.	16.	-0.00	8	2461.80	
5.33	0.0	1.25	7.65	1.28	3.76	2463.40	2461.60	
0.016632	0.049	0.090	0.055	0.090	0.00	-0.00	459.23	
	2457.20	300.	300.	300.	65.	54.	577.96	3.

CCHV= 0.100 CEHV= 0.500
*SECNO .160

*** GR CARDS REPEATED

AYLES CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2463.30 ELREA= 2463.70

0.16	1025.	48.	977.	0.	0.71	2	95.	
2463.55	0.0	34.	141.	0.	-0.16	0	2462.50	
5.65	0.0	1.42	6.93	0.0	0.85	2464.27	2462.30	
0.012104	0.049	0.090	0.055	0.090	0.02	-0.00	448.30	
	2457.90	60.	60.	60.	76.	19.	543.00	3.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	22.00	0.30	100.00	0.0
	ELCHU	ELCHD						

M01

2457.90 2457.90

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  2457.90   2457.90

*SECNO .160

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

    EGPRS      EGLWC         H3      QWEIR       QPR      BAREA      TAREA      ELLC
  2466.16    2464.40       0.05        316.       710.       100.       100.   2462.50

    ELTRD
  2463.80


     0.16       1025.       154.       767.       104.       0.22          2       228.
  2464.59        0.0        138.       180.        79.      -0.50          0   2462.50
     6.69        0.0        1.12       4.26       1.31       0.54    2464.80    2462.30
 0.003288      0.049       0.090      0.055      0.090        0.0      -0.00     366.28
             2457.90          31.        31.        31.       158.        70.    593.87         3.


*SECNO .160
     0.16       1025.       125.       806.        94.       0.26          2       229.
  2464.61        0.0        141.       177.        80.       0.04          0   2462.50
     6.71        0.0        0.89       4.54       1.17       0.04    2464.87    2462.30
 0.002556      0.049       0.100      0.045      0.090       0.02      -0.00     364.95
             2457.90          15.        15.        15.       159.        70.    593.98         3.


CCHV=   0.100 CEHV=   0.800
*SECNO .260

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                    10 YR FLOOD          11/11/81
    MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
    SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     0.26       1005.        13.       934.        58.       1.28         20        64.
  2469.93    2469.93          7.        99.        29.       1.03         11    2468.40
     3.93        0.0        1.85       9.42       2.00       2.80    2471.21    2467.40
 0.022496      0.049       0.100      0.050      0.130       0.82      -0.00      50.82
             2466.00         495.       495.       495.       25.        39.    115.06         6.


*SECNO .270

*** GR CARDS REPEATED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2472.80 ELREA=     2471.70

     0.27       1005.         0.      1005.         0.       1.12          0        32.
  2470.82        0.0          0.       118.         0.      -0.16          0    2468.70
     4.52        0.0         0.0       8.49        0.0       0.71    2471.94    2467.70
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0.014441	0.049	0.100	0.050	0.130	0.02	-0.00	60.00	
	2466.30	40.	40.	40.	16.	16.	92.00	7.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.00	0.10	115.00	0.0

ELCHU	ELCHD
2466.30	2466.30

*SECNO .270

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2472.72	2471.96	0.04	6.	990.	115.	115.	2471.80

ELTRD
2472.20

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2473.30 ELREA= 2472.20

0.27	1005.	0.	879.	126.	0.39	2	69.
2472.28	0.0	0.	165.	93.	-0.73	0	2468.70
5.98	0.0	0.0	5.33	1.36	0.72	2472.67	2467.70
0.003663	0.049	0.100	0.050	0.130	0.0	-0.00	60.00
	2466.30	10.	10.	10.	16.	53.	128.62 7.

*SECNO .280

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

```
     0.28     1005.        9.       940.        55.       1.32        20        64.
  2473.91  2473.91         7.        99.        29.       0.93        14   2472.40
     3.91      0.0       1.37       9.53       1.93       0.08   2475.24   2471.40
 0.028052    0.049      0.150      0.055      0.150       0.75     -0.00     50.92
           2470.00        10.        10.        10.        25.       39.    114.92        7.

*SECNO .420
    AYLES CREEK                   10 YR FLOOD          11/11/81
   MILE      Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV      CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH     WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE     WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
             ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     0.42      980.        0.       898.        82.       1.07         6       105.
  2492.18  2492.18         0.       103.        64.      -0.25        11   2493.50
     4.88      0.0        0.0       8.68       1.27      16.97   2493.25   2491.20
 0.018541    0.050      0.150      0.050      0.150       0.02     -0.00    162.78
           2487.30       750.       750.       750.        14.       91.    267.91        9.

*SECNO .430

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                   10 YR FLOOD          11/11/81
   MILE      Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV      CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH     WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE     WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
             ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2496.80 ELREA=     2494.70

     0.43      980.        0.       980.        0.        1.60         2        31.
  2493.96  2493.96         0.        97.        0.        0.52        11   2495.50
     4.66      0.0        0.0      10.14       0.0        1.33   2495.55   2493.20
 0.027103    0.050      0.150      0.050      0.150       0.42     -0.00    163.24
           2489.30        60.        60.        60.        14.       17.    194.00        9.


SPECIAL BRIDGE

SB     HK        XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS
     1.25       1.60       3.00        0.0      20.00       0.01     108.00      0.0
   ELCHU     ELCHD
  2489.30  2489.30

*SECNO .430

*** GR CARDS REPEATED
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3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2496.00	2495.55	0.01	24.	953.	108.	108.	2494.70

ELTRD
2495.20

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2497.30 ELREA= 2495.20

0.43	980.	0.	778.	202.	0.34	2	124.	
2495.55	0.0	0.	149.	181.	-1.25	0	2495.50	
6.25	0.0	0.0	5.24	1.12	0.34	2495.89	2493.20	
0.004694	0.050	0.150	0.050	0.150	0.0	-0.00	160.00	
	2489.30	10.	10.	10.	17.	107.	283.89	9.

*SECNO .430

AYLES CREEK			10 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.43	980.	0.	980.	0.	0.26	2	87.	
2495.71	0.0	0.	238.	0.	-0.08	0	2498.00	
4.11	0.0	0.0	4.12	0.0	0.07	2495.97	2495.70	
0.005251	0.050	0.150	0.050	0.100	0.01	-0.00	164.80	
	2491.60	15.	15.	15.	41.	46.	252.17	10.

CCHV= 0.100 CEHV= 0.800
*SECNO .480

0.48	975.	0.	975.	0.	0.62	2	53.	
2496.79	0.0	0.	155.	0.	0.35	0	2500.30	
4.49	0.0	0.0	6.31	0.0	1.15	2497.41	2497.00	
0.013437	0.050	0.150	0.055	0.100	0.28	-0.00	46.25	
	2492.30	145.	145.	145.	24.	29.	98.85	10.

CCHV= 0.100 CEHV= 0.500
*SECNO .480

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2499.00 ELREA= 2499.00

0.48	975.	0.	975.	0.	1.97	2	18.	
2497.46	0.0	0.	86.	0.	1.36	0	2492.80	
5.16	0.0	0.0	11.27	0.0	1.35	2499.43	2493.00	
0.021686	0.050	0.150	0.055	0.100	0.68	-0.00	60.00	
	2492.30	80.	80.	80.	9.	9.	78.00	10.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2496.07 ,NOT 2497.46
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	18.00	0.90	115.00	0.0

ELCHU	ELCHD
2492.30	2492.30

*SECNO .480

*** GR CARDS REPEATED
CLASS B LOW FLOW

3420 BRIDGE W.S.= 2496.95 BRIDGE VELOCITY=, 12.25
CALCULATED CHANNEL AREA=, 80.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2499.25	2499.64	0.0	0.	975.	115.	115.	2499.00

ELTRD
2499.80

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2499.80 ELREA= 2501.00

0.48	975.	0.	975.	0.	1.54	0	18.
2498.10	0.0	0.	98.	0.	-0.44	0	2492.80
5.80	0.0	0.0	9.95	0.0	0.20	2499.64	2493.00
0.014318	0.050	0.150	0.055	0.100	0.0	-0.00	60.00
	2492.30	10.	10.	10.	9.	9.	78.00	10.

*SECNO .480
AYLES CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.48	975.	0.	975.	0.	1.21	20	46.	
2499.09	2499.09	0.	110.	0.	-0.32	14	2503.50	
3.59	0.0	0.0	8.84	0.0	0.42	2500.31	2500.20	
0.034583	0.050	0.150	0.055	0.100	0.03	-0.00	47.85	
	2495.50	20.	20.	20.	22.	24.	93.91	11.

CCHV= 0.100 CEHV= 0.800
*SECNO .570

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 10 YR FLOOD 11/11/81

E02

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.57	960.	0.	960.	0.	0.57	5	47.	
2507.11	0.0	0.	158.	0.	-0.64	0	2506.80	
5.11	0.0	0.26	6.07	0.0	7.31	2507.68	2507.20	
0.009658	0.051	0.160	0.055	0.160	0.06	-0.00	198.06	
	2502.00	440.	440.	440.	25.	22.	244.81	12.

CCHV= 0.100 CEHV= 0.500
*SECNO .580

*** GR CARDS REPEATED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2511.40 ELREA= 2511.50

0.58	960.	0.	960.	0.	0.45	2	44.	
2507.87	0.0	0.	178.	0.	-0.12	0	2507.10	
5.57	0.0	0.0	5.38	0.0	0.63	2508.32	2507.50	
0.006479	0.051	0.160	0.055	0.160	0.01	-0.00	201.00	
	2502.30	80.	80.	80.	22.	22.	245.00	12.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2506.26 ,NOT 2507.87
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	10.00	3.10	155.00	1.78

ELCHU	ELCHD
2502.30	2502.30

*SECNO .580

*** GR CARDS REPEATED
CLASS B LOW FLOW

3420 BRIDGE W.S.= 2507.77 BRIDGE VELOCITY=, 10.54
CALCULATED CHANNEL AREA=, 91.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
0.0	2509.41	0.0	0.	960.	155.	155.	2509.90

ELTRD
2511.90

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2511.90 ELREA= 2512.00

0.58	960.	0.	960.	0.	0.26	0	44.	
2509.15	0.0	0.	235.	0.	-0.19	0	2507.10	
6.85	0.0	0.0	4.09	0.0	1.09	2509.41	2507.50	
0.002595	0.051	0.160	0.055	0.160	0.0	-0.00	201.00	
	2502.30	10.	10.	10.	22.	22.	245.00	12.

*SECNO .580

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			10 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.58	960.	0.	960.	0.	1.37	20	38.	
2509.06	2509.06	0.	102.	0.	1.11	11	2510.10	
3.76	0.0	0.0	9.38	0.0	0.13	2510.42	2510.50	
0.033561	0.051	0.160	0.055	0.160	0.55	-0.00	204.26	
	2505.30	20.	20.	20.	19.	19.	242.11	12.

CCHV= 0.100 CEHV= 0.800

*SECNO .690

3301 HV CHANGED MORE THAN HVINS

0.69	940.	36.	900.	3.	0.74	5	100.	
2519.78	0.0	45.	128.	4.	-0.63	0	2519.40	
6.68	0.0	0.80	7.05	1.00	10.04	2520.52	2517.50	
0.011347	0.052	0.150	0.060	0.150	0.06	-0.00	178.90	
	2513.10	550.	550.	550.	84.	16.	279.07	14.

*SECNO .700

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			10 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
85 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.70	940.	11.	929.	0.	1.57	2	54.	
2520.89	2520.89	11.	92.	1.	0.83	14	2521.90	
5.29	0.0	0.98	10.10	0.92	0.73	2522.45	2520.00	
0.033876	0.052	0.150	0.060	0.150	0.66	-0.00	195.27	
	2515.60	40.	40.	40.	68.	14.	277.19	14.

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SPECIAL BRIDGE

SB      HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA      SS
        1.25      1.60      3.00       0.0       6.00      0.01      45.00     0.0
     ELCHU     ELCHD
   2515.60   2515.60

*SECNO .700

*** GR CARDS REPEATED
6840,FLOW IS BY WEIR AND LOW FLOW

3301 HV CHANGED MORE THAN HVINS

3420 BRIDGE W.S.=    2520.89 BRIDGE VELOCITY=,     11.77
     CALCULATED CHANNEL AREA=,      32.
      EGPRS      EGLWC        H3      QWEIR       QPR      BAREA      TAREA       ELLC
    2523.10    2523.04      0.00       566.      373.       45.        45.    2523.10

      ELTRD
    2520.10

       0.70        940.       117.       819.        4.      0.51          3       105.
    2522.53        0.0        103.       134.        4.     -1.06          0    2521.90
       6.93        0.0        1.14       6.10      0.89      0.59    2523.04    2520.00
   0.007950      0.052       0.150      0.060     0.150       0.0      -0.00     174.90
               2515.60          30.        30.       30.        88.        16.    279.41        14.


*SECNO .720
       0.72        935.         0.       935.        0.      0.72          2        32.
    2522.78        0.0          0.       138.        0.      0.21          0    2523.50
       6.18        0.0         0.0       6.79      0.01      0.29    2523.50    2522.70
   0.006798      0.052       0.130      0.045     0.130      0.17      -0.00     89.96
               2516.60          40.        40.       40.        15.        17.    122.23        14.


SPECIAL BRIDGE

SB      HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA      SS
        1.25      1.60      3.00       0.0       15.00     0.10      55.00     0.0
     ELCHU     ELCHD
   2516.60   2516.60

*SECNO .720

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

      EGPRS      EGLWC        H3      QWEIR       QPR      BAREA      TAREA       ELLC
    2529.96    2523.52      0.02       473.      463.       55.        55.    2520.30

      ELTRD
    2522.10


       0.72        935.        10.       915.        9.      0.39          2        74.
    2524.16        0.0         18.       181.       18.     -0.33          0    2523.50
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      7.56      0.0       0.59      5.05      0.52      1.05   2524.55   2522.70
  0.002713     0.052     0.130     0.045     0.130      0.0     -0.00     69.68
             2516.60      10.       10.       10.       35.       39.    143.63       15.

*SECNO .720
      0.72      935.       12.      913.       10.      0.45         2       74.
   2524.18      0.0       18.       167.       18.      0.07         0   2523.50
      5.98      0.0       0.69      5.47      0.53      0.03   2524.63   2522.70
  0.003643     0.052     0.130     0.045     0.150      0.05     -0.00     69.61
             2518.20      10.       10.       10.       35.       39.    143.64       15.

CCHV=   0.100 CEHV=    0.800
*SECNO .800

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                     10 YR FLOOD         11/11/81
    MILE       Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
    ELEV       CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
    DEPTH      WSELK     VLOB      VCH       VROB      HL        EG     LEFT/RIGHT
    SLOPE      WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
               ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST      VOL

      0.80      920.        0.      920.        0.      1.26         4       34.
   2527.85      0.0         0.      102.        0.      0.81         0   2530.20
      4.35      0.0       0.0       9.02      0.0       3.83   2529.11   2530.50
  0.028078     0.053     0.150     0.055     0.150      0.65     -0.00     96.69
             2523.50      490.      490.      490.       17.       17.    130.83       16.

CCHV=   0.100 CEHV=    0.500
*SECNO .810

3301 HV CHANGED MORE THAN HVINS

      0.81      920.        0.      920.        0.      0.33         2       47.
   2529.38      0.0         0.      199.        0.     -0.93         0   2529.20
      6.88      0.0       0.13      4.63      0.0       0.51   2529.72   2529.50
  0.004090     0.053     0.150     0.055     0.150      0.09     -0.00     87.70
             2522.50       60.       60.       60.       26.       21.    134.82       17.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2528.10 ,NOT   2529.38
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA       SS
      1.25      1.60      3.00      0.0       10.00      0.30     60.00      0.0
    ELCHU     ELCHD
   2522.50   2522.50

*SECNO .810

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW
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EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2535.23	2530.51	0.0	214.	707.	60.	60.	2528.70	
ELTRD								
2531.80								
0.81	920.	53.	864.	3.	0.09	2	101.	
2532.74	0.0	117.	340.	9.	-0.24	0	2529.20	
10.24	0.0	0.45	2.54	0.31	3.12	2532.83	2529.50	
0.000609	0.053	0.150	0.055	0.150	0.0	-0.00	39.25	
	2522.50	10.	10.	10.	75.	27.	140.56	17.
*SECNO .810								
0.81	920.	8.	912.	0.	0.22	2	70.	
2532.69	0.0	18.	241.	1.	0.13	0	2531.50	
7.89	0.0	0.43	3.79	0.33	0.01	2532.91	2531.80	
0.001428	0.053	0.110	0.045	0.090	0.06	-0.00	66.32	
	2524.80	15.	15.	15.	48.	23.	136.53	17.

CCHV= 0.100 CEHV= 0.800
*SECNO .910

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			10 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.91	905.	0.	905.	0.	1.45	20	33.	
2535.23	2535.23	0.	94.	0.	1.23	8	2537.20	
3.93	0.0	0.0	9.66	0.0	1.56	2536.68	2536.40	
0.027735	0.052	0.110	0.050	0.120	0.98	-0.00	253.01	
	2531.30	415.	415.	415.	15.	18.	285.70	18.

CCHV= 0.100 CEHV= 0.500
*SECNO .920

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			10 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

0.92	905.	1.	903.	0.	0.58	2	87.	
2536.71	0.0	4.	147.	1.	-0.86	0	2537.20	
5.41	0.0	0.27	6.14	0.32	0.53	2537.29	2536.40	
0.007764	0.052	0.110	0.050	0.120	0.09	-0.00	181.14	
	2531.30	40.	40.	40.	87.	29.	296.72	19.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2535.79 ,NOT 2536.71
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	14.00	0.30	55.00	0.0

ELCHU	ELCHD
2531.30	2531.30

*SECNO .920

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2543.44	2537.87	0.0	561.	347.	55.	55.	2535.30

ELTRD
2536.50

0.92	905.	31.	868.	6.	0.39	3	205.	
2537.31	0.0	60.	171.	12.	-0.20	0	2537.20	
6.01	0.0	0.52	5.09	0.50	0.40	2537.70	2536.40	
0.004562	0.052	0.110	0.050	0.120	0.0	-0.00	107.96	
	2531.30	12.	12.	12.	160.	45.	313.25	19.

*SECNO .920

0.92	905.	41.	855.	9.	0.66	4	195.	
2537.23	2536.47	49.	127.	10.	0.28	14	2537.20	
4.63	0.0	0.83	6.73	0.90	0.06	2537.90	2536.40	
0.009411	0.052	0.090	0.045	0.090	0.14	-0.00	116.00	
	2532.60	10.	10.	10.	152.	43.	311.15	19.

*SECNO 1.250

3301 HV CHANGED MORE THAN HVINS

1.25	850.	0.	850.	0.	1.35	8	25.	
2558.42	2558.04	0.	91.	0.	0.69	8	2559.50	
4.82	0.0	0.0	9.33	0.0	21.53	2559.77	2559.90	
0.016903	0.050	0.080	0.045	0.080	0.34	-0.00	413.48	
	2553.60	1760.	1760.	1760.	13.	13.	438.66	24.

*SECNO 1.280

*** GR CARDS REPEATED

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   AYLES CREEK              10 YR FLOOD           11/11/81
  MILE       Q         QLOB      QCH        QROB       HV         ITRIAL     TOPWID
  ELEV       CRIWS     ALOB      ACH        AROB       DHV        IDC        BANK ELEV
  DEPTH      WSELK     VLOB      VCH        VROB       HL         EG      LEFT/RIGHT
  SLOPE      WTN       XNL       XNCH       XNR        OLOSS      CORAR      SSTA
             ELMIN     XLOBL     XLCH       XLOBR      WSDL       WSDR       ENDST        VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.28      845.        0.       845.         0.       1.69         20        24.
 2564.61   2564.61        0.        81.         0.       0.34         12   2566.10
    4.41       0.0       0.0      10.43        0.0       2.95    2566.30    2566.50
 0.023257    0.050     0.080      0.045      0.080       0.17        0.0    414.04
           2560.20      150.       150.       150.        12.        12.    438.28        25.

*SECNO 1.590

3301 HV CHANGED MORE THAN HVINS

   AYLES CREEK              10 YR FLOOD           11/11/81
  MILE       Q         QLOB      QCH        QROB       HV         ITRIAL     TOPWID
  ELEV       CRIWS     ALOB      ACH        AROB       DHV        IDC        BANK ELEV
  DEPTH      WSELK     VLOB      VCH        VROB       HL         EG      LEFT/RIGHT
  SLOPE      WTN       XNL       XNCH       XNR        OLOSS      CORAR      SSTA
             ELMIN     XLOBL     XLCH       XLOBR      WSDL       WSDR       ENDST        VOL

    1.59      795.        0.       795.         0.       0.78          6        32.
 2590.11       0.0        0.       112.         0.      -0.91          0   2594.50
    5.31       0.0       0.0       7.09        0.0      24.49    2590.89    2593.70
 0.009677    0.049     0.150      0.045      0.090       0.09      -0.00     62.70
           2584.80     1690.      1690.      1690.        15.        17.     94.75        28.

*SECNO 1.590

*** GR CARDS REPEATED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2594.00 ELREA=     2594.00

    1.59      795.        0.       795.         0.       0.58          2        34.
 2590.63       0.0        0.       130.         0.      -0.20          0   2594.50
    5.83       0.0       0.0       6.13        0.0       0.31    2591.22    2593.70
 0.006426    0.049     0.150      0.045      0.090       0.02      -0.00     61.76
           2584.80       40.        40.        40.        16.        18.     95.52        28.


SPECIAL BRIDGE

SB     HK        XKOR      COFQ      RDLEN       BWC        BWP       BAREA       SS
     1.25        1.60      3.00       0.0       35.00       0.30     260.00       0.0
  ELCHU      ELCHD
 2584.80    2584.80

*SECNO 1.590

*** GR CARDS REPEATED
CLASS A LOW FLOW
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3420 BRIDGE W.S.=   2590.63 BRIDGE VELOCITY=,      3.93
     CALCULATED CHANNEL AREA=,      202.
    EGPRS      EGLWC         H3       QWEIR        QPR      BAREA      TAREA       ELLC
      0.0    2591.23       0.02          0.      795.      260.       260.    2592.30

   ELTRD
  2594.50


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2594.50 ELREA=     2594.50

      1.59       795.         0.       795.         0.       0.58          0       34.
   2590.65         0.0         0.       130.         0.      -0.01          0  2594.50
      5.85         0.0        0.0       6.10        0.0       0.01    2591.23  2593.70
 0.006336       0.049       0.150      0.045       0.090       0.0      -0.00    61.73
              2584.80          12.        12.         12.        16.        18.    95.55        28.

*SECNO 1.600

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                    10 YR FLOOD          11/11/81
   MILE        Q          QLOB        QCH         QROB        HV          ITRIAL      TOPWID
   ELEV        CRIWS      ALOB        ACH         AROB        DHV         IDC         BANK ELEV
   DEPTH       WSELK      VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
   SLOPE       WTN        XNL         XNCH        XNR         OLOSS       CORAR       SSTA
               ELMIN      XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST        VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      1.60       795.         0.       795.         0.       1.25         20       36.
   2591.98    2591.98         0.        88.         0.       0.68         19  2594.50
      3.98         0.0        0.0       8.99        0.0       0.11    2593.24  2593.70
 0.023367       0.049       0.150      0.045       0.090       0.34      -0.00    59.57
              2588.00          10.        10.         10.        18.        18.    95.48        28.


*SECNO 1.870
      1.87       750.         0.       750.         0.       0.99          6       38.
   2625.62         0.0         0.        94.         0.      -0.26          0  2627.80
      4.12         0.0        0.0       8.00        0.0      33.35    2626.61  2626.90
 0.022622       0.049       0.150      0.050       0.150       0.03      -0.00   280.22
              2621.50        1450.      1450.       1450.        21.        17.   317.75        31.


*SECNO 1.880

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                    10 YR FLOOD          11/11/81
   MILE        Q          QLOB        QCH         QROB        HV          ITRIAL      TOPWID
   ELEV        CRIWS      ALOB        ACH         AROB        DHV         IDC         BANK ELEV
   DEPTH       WSELK      VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
   SLOPE       WTN        XNL         XNCH        XNR         OLOSS       CORAR       SSTA
               ELMIN      XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST        VOL
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3686 20 TRIALS ATTEMPTED WSEL,CWSEL
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3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      1.88      750.       22.      703.       25.      1.51       20       37.
   2629.66   2629.66        9.       69.       14.      0.51        5  2626.90
      4.06       0.0      2.39     10.16      1.75      1.87  2631.17  2627.20
 0.024209     0.049     0.150     0.050     0.150      0.26    -0.00   280.28
              2625.60       80.       80.       80.       15.       22.   317.66       32.


SPECIAL BRIDGE

SB     HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA      SS
      1.25       1.60      3.00       0.0      21.00      0.01      80.00      0.0
    ELCHU      ELCHD
  2625.60    2625.60

*SECNO 1.880

*** GR CARDS REPEATED

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

     EGPRS      EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
   2631.84    2631.17      0.01        7.      740.      80.       80.    2629.40

     ELTRD
   2631.50


*** NOTE: QWEIR IS GREATER THAN 0 AND ELEV IS LESS THAN ELTRD ***

      1.88      750.       56.      647.       47.      0.53        3       199.
   2631.25       0.0       86.      103.       40.     -0.97        0  2626.90
      5.65       0.0      0.66      6.30      1.17      0.62  2631.79  2627.20
 0.005498     0.049     0.150     0.050     0.150       0.0    -0.00   123.94
              2625.60       16.       16.       16.      172.      40.   335.99       32.


*SECNO 1.880

3265 DIVIDED FLOW

      1.88      750.      110.      635.        5.      0.17        2       326.
   2631.69       0.0      162.      179.       11.     -0.37        0  2631.90
      6.09       0.0      0.68      3.54      0.41      0.03  2631.85  2631.00
 0.001997     0.049     0.080     0.045     0.080      0.04    -0.00    26.88
              2625.60       10.       10.       10.      274.      56.   356.85       32.


CCHV=   0.100 CEHV=   0.800
*SECNO 1.900

3301 HV CHANGED MORE THAN HVINS
```

1.90	745.	0.	745.	0.	0.68	2	34.	
2631.73	0.0	0.	113.	0.	0.51	0	2632.50	
5.63	0.0	0.0	6.61	0.0	0.14	2632.41	2633.00	
0.013171	0.049	0.100	0.055	0.100	0.41	-0.00	607.04	
	2626.10	35.	35.	35.	17.	17.	641.06	32.

CCHV= 0.100 CEHV= 0.500
*SECNO 1.900

*** GR CARDS REPEATED

1.90	745.	0.	745.	0.	0.61	2	35.	
2631.90	0.0	0.	119.	0.	-0.07	0	2632.50	
5.80	0.0	0.0	6.28	0.0	0.10	2632.51	2633.00	
0.007680	0.049	0.100	0.045	0.100	0.01	-0.00	606.58	
	2626.10	10.	10.	10.	18.	17.	641.46	32.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	20.00	0.20	115.00	0.0

ELCHU	ELCHD
2626.10	2626.10

*SECNO 1.900

*** GR CARDS REPEATED

3265 DIVIDED FLOW

AYLES CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2632.94	2632.53	0.03	0.	745.	115.	115.	2631.90

ELTRD
2633.60

1.90	745.	4.	741.	0.	0.43	2	71.	
2632.52	0.0	9.	141.	0.	-0.19	0	2632.50	
6.42	0.0	0.43	5.25	0.0	0.43	2632.94	2633.00	
0.004755	0.049	0.100	0.045	0.100	0.0	-0.00	517.12	
	2626.10	32.	32.	32.	107.	18.	642.90	32.

*SECNO 1.900

3265 DIVIDED FLOW

1.90	745.	3.	742.	0.	0.64	2	67.	
2632.48	0.0	7.	115.	0.	0.22	0	2632.50	
4.18	0.0	0.47	6.45	0.0	0.07	2633.12	2633.00	
0.011282	0.049	0.130	0.050	0.080	0.11	-0.00	574.34	
	2628.30	10.	10.	10.	50.	18.	642.78	32.

*SECNO 2.170

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			10 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.17	705.	0.	705.	0.	1.33	8	29.	
2666.48	2666.48	0.	76.	0.	0.69	11	2671.30	
3.88	0.0	0.0	9.26	0.0	21.35	2667.81	2674.40	
0.023464	0.049	0.130	0.045	0.150	0.34	-0.00	137.08	
	2662.60	1370.	1370.	1370.	12.	17.	166.19	35.

*SECNO 2.180

*** GR CARDS REPEATED

AYLES CREEK			10 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.18	705.	0.	705.	0.	1.32	1	29.	
2667.99	2667.99	0.	76.	0.	-0.01	5	2672.80	
3.89	0.0	0.0	9.23	0.0	1.40	2669.31	2675.90	
0.023282	0.049	0.130	0.045	0.150	0.00	-0.00	137.05	
	2664.10	60.	60.	60.	12.	17.	166.20	35.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2666.96 ,NOT 2667.99
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	20.00	0.90	105.00	0.0

ELCHU	ELCHD
2664.10	2664.10

*SECNO 2.180

*** GR CARDS REPEATED

CLASS B LOW FLOW

3420 BRIDGE W.S.= 2667.59 BRIDGE VELOCITY= 10.59
CALCULATED CHANNEL AREA= 67.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
0.0	2669.38	0.0	0.	705.	105.	105.	2669.60

ELTRD
2671.00

2.18	705.	0.	705.	0.	0.98	0	31.	
2668.40	0.0	0.	89.	0.	-0.34	0	2672.80	
4.30	0.0	0.0	7.94	0.0	0.07	2669.38	2675.90	
0.015448	0.049	0.130	0.045	0.150	0.0	-0.00	135.68	
	2664.10	12.	12.	12.	14.	17.	166.81	35.

*SECNO 2.180

*** GR CARDS REPEATED
AYLES CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.18	705.	0.	705.	0.	0.70	2	34.	
2668.88	0.0	0.	105.	0.	-0.28	0	2672.80	
4.78	0.0	0.0	6.73	0.0	0.18	2669.59	2675.90	
0.009861	0.049	0.130	0.045	0.100	0.03	-0.00	134.04	
	2664.10	15.	15.	15.	15.	18.	167.55	35.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.210

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.21	700.	4.	686.	9.	1.22	20	48.	
2671.37	2671.37	4.	77.	7.	0.52	15	2670.40	
3.77	0.0	1.07	8.96	1.37	0.55	2672.59	2670.30	
0.028489	0.049	0.150	0.055	0.120	0.41	-0.00	54.88	
	2667.60	35.	35.	35.	22.	26.	102.96	35.

CCHV= 0.100 CEHV= 0.500
*SECNO 2.210

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2675.00 ELREA= 2675.80

2.21	700.	0.	700.	0.	0.51	2	27.	
2673.07	0.0	0.	123.	0.	-0.71	0	2670.40	
5.47	0.0	0.0	5.71	0.0	0.92	2673.58	2670.30	
0.006198	0.049	0.150	0.055	0.120	0.07	-0.00	63.00	
	2667.60	80.	80.	80.	14.	14.	90.00	36.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	25.00	0.70	148.00	0.0

ELCHU	ELCHD
2667.60	2667.60

*SECNO 2.210

*** GR CARDS REPEATED

CLASS A LOW FLOW

3420 BRIDGE W.S.= 2673.04 BRIDGE VELOCITY= 5.29
CALCULATED CHANNEL AREA= 132.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
0.0	2673.62	0.06	0.	700.	148.	148.	2673.70

ELTRD
2675.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2675.50 ELREA= 2676.30

2.21	700.	0.	700.	0.	0.49	0	27.	
2673.13	0.0	0.	124.	0.	-0.01	0	2670.40	
5.53	0.0	0.0	5.63	0.0	0.04	2673.62	2670.30	
0.005920	0.049	0.150	0.055	0.120	0.0	-0.00	63.00	
	2667.60	39.	39.	39.	14.	14.	90.00	36.

*SECNO 2.210

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.21	700.	4.	689.	7.	1.25	20	48.	
2673.36	2673.36	4.	76.	7.	0.75	14	2672.40	
3.76	0.0	0.97	9.02	1.00	0.21	2674.60	2672.30	
0.024008	0.049	0.150	0.050	0.150	0.38	-0.00	54.90	
	2669.60	20.	20.	20.	22.	26.	102.85	36.

*SECNO 2.290

AYLES CREEK 10 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.29	685.	17.	668.	0.	0.87	4	49.	
2681.62	0.0	14.	88.	0.	-0.37	0	2680.80	
4.12	0.0	1.21	7.59	0.0	7.85	2682.49	2683.00	
0.017911	0.049	0.150	0.050	0.130	0.04	-0.00	37.68	
	2677.50	380.	380.	380.	34.	14.	86.38	37.

F03

THIS RUN EXECUTED 11/11/81 7:48:50

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************

T1      YANCEY CO NC FEMA STUDY                                          1925
T2      50 YR FLOOD                                                      1930
T3      AYLES CREEK                                                      1935

J1  ICHECK     INQ    NINV    IDIR    STRT  METRIC   HVINS      Q      WSEL     FQ
          0.      3.      0.      0. 0.00884      0.    0.0      0.     0.0    0.0    1940

J2  NPROF    IPLOT    PRFVS    XSECV   XSECH      FN   ALLDC     IBW   CHNIM ITRACE
          2.      0.     -1.      0.      0.     0.0     0.0      0.      0.      0.    1945
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G03

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*PROF 2

CCHV=   0.100 CEHV=   0.500
*SECNO .030
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

    AYLES CREEK                         50 YR FLOOD         11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

     0.03      1805.        0.       1799.         6.      1.23          0        60.
  2455.13       0.0         0.        202.         7.      0.50          0    2455.50
     8.13       0.0       0.02        8.90       0.79      0.0     2456.36    2455.20
 0.008811       0.0      0.070       0.045      0.070      0.0       -0.00     561.81
             2447.00        0.          0.         0.       67.        46.     675.00         0.

*SECNO .030

*** GR CARDS REPEATED

3265 DIVIDED FLOW

     0.03      1805.        2.       1767.        36.      0.99          2        71.
  2455.69       0.0         3.        219.        25.     -0.24          0    2455.50
     8.69       0.0       0.75        8.07       1.45      0.30    2456.68    2455.20
 0.006589     0.044      0.070       0.045      0.070      0.02      -0.00     560.99
             2447.00       40.         40.        40.       68.        46.     675.00         0.


SPECIAL BRIDGE

SB     HK        XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS
     1.25        1.60       3.00        0.0      24.00       0.90     150.00       0.0
   ELCHU      ELCHD
  2447.00    2447.00

*SECNO .030

*** GR CARDS REPEATED

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

    EGPRS      EGLWC        H3       QWEIR        QPR      BAREA      TAREA       ELLC
  2459.29    2456.85      0.17        633.      1183.       150.       150.    2453.50

    ELTRD
  2455.40


     0.03      1805.       33.       1678.        94.      0.68          3        95.
```

2456.56	0.0	28.	245.	51.	-0.31	0	2455.50	
9.56	0.0	1.17	6.85	1.83	0.55	2457.24	2455.20	
0.004096	0.044	0.070	0.045	0.070	0.0	-0.00	559.74	
	2447.00	32.	32.	32.	69.	46.	675.00	0.

*SECNO .030

3265 DIVIDED FLOW

0.03	1805.	40.	1534.	231.	0.78	2	160.	
2456.55	0.0	28.	201.	115.	0.10	0	2455.50	
8.15	0.0	1.42	7.65	2.00	0.05	2457.34	2455.20	
0.006055	0.043	0.070	0.045	0.070	0.05	-0.00	559.74	
	2448.40	10.	10.	10.	69.	111.	740.19	0.

*SECNO .080

AYLES CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.08	1790.	191.	1360.	239.	0.64	3	256.	
2457.90	0.0	147.	186.	113.	-0.14	0	2456.20	
6.20	0.0	1.30	7.31	2.11	1.20	2458.55	2454.70	
0.005925	0.044	0.100	0.045	0.070	0.01	-0.00	234.84	
	2451.70	200.	200.	200.	147.	109.	491.07	2.

*SECNO .080

0.08	1790.	284.	1183.	323.	0.34	2	278.	
2458.57	0.0	237.	210.	176.	-0.30	0	2456.20	
6.87	0.0	1.20	5.64	1.84	0.33	2458.90	2454.70	
0.003001	0.044	0.100	0.045	0.070	0.03	-0.00	219.95	
	2451.70	80.	80.	80.	162.	116.	497.69	3.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2458.00 ,NOT 2458.57
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	17.00	0.30	90.00	0.0
	ELCHU	ELCHD						
	2451.70	2451.70						

*SECNO .080

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2468.39	2460.19	0.0	1098.	696.	90.	90.	2457.10

ELTRD

```
  2457.70

    0.08      1790.      421.       933.      436.       0.12         2      308.
 2459.94       0.0       450.       259.      319.      -0.22         0   2456.20
    8.24       0.0       0.94       3.60      1.37       1.15   2460.05   2454.70
0.000924     0.044      0.100      0.045     0.070        0.0     -0.00    203.44
           2451.70       10.        10.       10.       179.      129.    511.38         3.

*SECNO .080

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                      50 YR FLOOD         11/11/81
   MILE        Q        QLOB        QCH       QROB       HV       ITRIAL     TOPWID
   ELEV        CRIWS    ALOB        ACH       AROB       DHV      IDC        BANK ELEV
   DEPTH       WSELK    VLOB        VCH       VROB       HL       EG       LEFT/RIGHT
   SLOPE       WTN      XNL         XNCH      XNR        OLOSS    CORAR      SSTA
               ELMIN    XLOBL       XLCH      XLOBR      WSDL     WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    0.08      1790.       95.      1598.       97.       1.20         5      243.
 2459.81   2459.81        97.       172.       78.       1.09        20   2458.50
    5.81       0.0       0.98       9.31      1.25       0.04   2461.01   2457.00
0.010692     0.044      0.140      0.045     0.140       0.54     -0.00    243.84
           2454.00       20.        20.       20.       138.      105.    487.07         4.

CCHV=   0.100 CEHV=   0.800
*SECNO .150
    0.15      1770.      226.      1382.      162.       0.79         4      214.
 2463.70   2463.48       111.       172.       69.      -0.41         8   2461.80
    6.50       0.0       2.03       8.01      2.35       3.44   2464.49   2461.60
0.012345     0.049      0.090      0.055     0.090       0.04     -0.00    379.27
           2457.20      300.       300.      300.       145.       69.    592.78         6.

CCHV=   0.100 CEHV=   0.500
*SECNO .160

*** GR CARDS REPEATED
    AYLES CREEK                      50 YR FLOOD         11/11/81
   MILE        Q        QLOB        QCH       QROB       HV       ITRIAL     TOPWID
   ELEV        CRIWS    ALOB        ACH       AROB       DHV      IDC        BANK ELEV
   DEPTH       WSELK    VLOB        VCH       VROB       HL       EG       LEFT/RIGHT
   SLOPE       WTN      XNL         XNCH      XNR        OLOSS    CORAR      SSTA
               ELMIN    XLOBL       XLCH      XLOBR      WSDL     WSDR       ENDST       VOL

    0.16      1770.      245.      1354.      171.       0.72         2      220.
 2464.48       0.0       123.       176.       74.      -0.07         0   2462.50
    6.58       0.0       1.98       7.69      2.31       0.70   2465.20   2462.30
0.011067     0.049      0.090      0.055     0.090       0.01     -0.00    373.14
           2457.90       60.        60.       60.       151.       69.    593.29         7.


SPECIAL BRIDGE
```

J03

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	22.00	0.30	100.00	0.0

ELCHU	ELCHD
2457.90	2457.90

*SECNO .160

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2472.26	2465.24	0.04	1104.	676.	100.	100.	2462.50

ELTRD
2463.80

0.16	1770.	401.	1143.	226.	0.32	2	277.	
2465.30	0.0	253.	207.	117.	-0.40	0	2462.50	
7.40	0.0	1.58	5.51	1.93	0.42	2465.62	2462.30	
0.004574	0.049	0.090	0.055	0.090	0.0	-0.00	320.44	
	2457.90	31.	31.	31.	204.	74.	597.71	7.

*SECNO .160

0.16	1770.	331.	1233.	206.	0.41	2	278.	
2465.32	0.0	256.	204.	118.	0.08	0	2462.50	
7.42	0.0	1.29	6.04	1.75	0.06	2465.72	2462.30	
0.003746	0.049	0.100	0.045	0.090	0.04	-0.00	319.68	
	2457.90	15.	15.	15.	204.	74.	597.78	7.

CCHV= 0.100 CEHV= 0.800
*SECNO .260

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.26	1740.	63.	1510.	167.	1.59	12	81.	
2471.20	2471.20	23.	140.	66.	1.18	19	2468.40	
5.20	0.0	2.69	10.80	2.54	3.52	2472.79	2467.40	
0.018690	0.049	0.100	0.050	0.130	0.94	-0.00	44.41	
	2466.00	495.	495.	495.	32.	49.	124.91	12.

*SECNO .270

*** GR CARDS REPEATED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2472.80 ELREA= 2471.70

0.27	1740.	0.	1526.	214.	1.22	2	68.

K03

2472.19	0.0	0.	162.	90.	-0.37	0	2468.70	
5.89	0.0	0.0	9.41	2.39	0.58	2473.41	2467.70	
0.011628	0.049	0.100	0.050	0.130	0.04	-0.00	60.00	
	2466.30	40.	40.	40.	16.	52.	128.24	12.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2471.94 ,NOT 2472.19
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.00	0.10	115.00	0.0

ELCHU	ELCHD
2466.30	2466.30

*SECNO .270

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2477.88	2473.99	0.0	593.	1151.	115.	115.	2471.80

ELTRD
2472.20

0.27	1740.	143.	1318.	280.	0.40	2	99.	
2474.28	0.0	74.	229.	176.	-0.81	0	2468.70	
7.98	0.0	1.92	5.76	1.59	1.27	2474.68	2467.70	
0.002753	0.049	0.100	0.050	0.130	0.0	-0.00	38.94	
	2466.30	10.	10.	10.	37.	62.	138.16	12.

*SECNO .280

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

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3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     0.28     1740.        47.      1531.      162.       1.64        20       81.
  2475.21  2475.21         24.       140.       66.       1.24        14  2472.40
     5.21      0.0        2.00      10.92      2.45       0.06   2476.85  2471.40
 0.023010    0.049       0.150      0.055     0.150       0.99       0.0    44.38
           2470.00         10.        10.       10.        32.       49.   124.97      12.


*SECNO .420
    AYLES CREEK                     50 YR FLOOD         11/11/81
   MILE      Q           QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV      CRIWS       ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH     WSELK       VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE     WTN         XNL        XNCH       XNR        OLOSS      CORAR      SSTA
             ELMIN       XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     0.42     1695.         0.      1385.      310.       1.28         5      123.
  2493.26  2493.26          0.       139.      154.      -0.36         8  2493.50
     5.96      0.0         0.0       9.99      2.01      15.38   2494.54  2491.20
 0.018350    0.050       0.150      0.050     0.150       0.04     -0.00   160.50
           2487.30        750.       750.      750.        16.      106.   283.32      17.


*SECNO .430

*** GR CARDS REPEATED
    AYLES CREEK                     50 YR FLOOD         11/11/81
   MILE      Q           QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV      CRIWS       ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH     WSELK       VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE     WTN         XNL        XNCH       XNR        OLOSS      CORAR      SSTA
             ELMIN       XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2496.80 ELREA=     2494.70

     0.43     1695.         0.      1390.      305.       1.31         2      123.
  2495.23  2495.23          0.       138.      151.       0.03         5  2495.50
     5.93      0.0         0.0      10.10      2.02       1.12   2496.54  2493.20
 0.018879    0.050       0.150      0.050     0.150       0.02     -0.00   160.56
           2489.30         60.        60.       60.        16.      106.   283.26      17.


SPECIAL BRIDGE

SB    HK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS
     1.25       1.60       3.00        0.0      20.00       0.01     108.00       0.0
   ELCHU      ELCHD
  2489.30    2489.30

*SECNO .430

*** GR CARDS REPEATED
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3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2501.35	2496.54	0.00	615.	1080.	108.	108.	2494.70

ELTRD
2495.20

0.43	1695.	24.	1181.	490.	0.35	2	154.	
2497.37	0.0	34.	210.	347.	-0.96	0	2495.50	
8.07	0.0	0.71	5.62	1.41	1.18	2497.72	2493.20	
0.003399	0.050	0.150	0.050	0.150	0.0	-0.00	133.87	
	2489.30	10.	10.	10.	43.	110.	287.45	17.

*SECNO .430

AYLES CREEK			50 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.43	1695.	0.	1675.	20.	0.27	2	120.	
2497.50	0.0	0.	397.	26.	-0.08	0	2498.00	
5.90	0.0	0.0	4.22	0.75	0.05	2497.77	2495.70	
0.002953	0.050	0.150	0.050	0.100	0.01	-0.00	161.06	
	2491.60	15.	15.	15.	45.	75.	281.31	17.

CCHV= 0.100 CEHV= 0.800
*SECNO .480

3301 HV CHANGED MORE THAN HVINS

0.48	1680.	0.	1676.	4.	0.83	2	62.	
2498.14	0.0	0.	229.	3.	0.56	0	2500.30	
5.84	0.0	0.0	7.33	1.10	0.76	2498.98	2497.00	
0.011798	0.050	0.150	0.055	0.100	0.45	-0.00	43.84	
	2492.30	145.	145.	145.	26.	36.	106.10	18.

CCHV= 0.100 CEHV= 0.500
*SECNO .480

AYLES CREEK			50 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.48	1680.	221.	1133.	326.	1.06	4	69.	
2499.06	2499.06	76.	115.	100.	0.23	19	2492.80	
6.76	0.0	2.89	9.83	3.26	0.92	2500.12	2493.00	
0.011228	0.050	0.150	0.055	0.100	0.11	-0.00	42.20	

2492.30	80.	80.	80.	27.	42.	110.91	19.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2497.72 ,NOT 2499.06
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	18.00	0.90	115.00	0.0

ELCHU	ELCHD
2492.30	2492.30

*SECNO .480

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2504.36	2501.69	0.0	380.	1289.	115.	115.	2499.00

ELTRD
2499.80

0.48	1680.	220.	938.	522.	0.30	2	148.	
2501.89	0.0	135.	166.	294.	-0.76	0	2492.80	
9.59	0.0	1.63	5.65	1.78	2.06	2502.18	2493.00	
0.002277	0.050	0.150	0.055	0.100	0.0	-0.00	36.03	
	2492.30	10.	10.	10.	33.	115.	184.17	19.

*SECNO .480

0.48	1680.	0.	1672.	8.	0.67	2	65.	
2501.78	0.0	0.	253.	7.	0.38	0	2503.50	
6.28	0.0	0.0	6.60	1.16	0.08	2502.45	2500.20	
0.008527	0.050	0.150	0.055	0.100	0.19	-0.00	43.07	
	2495.50	20.	20.	20.	27.	38.	108.42	19.

CCHV= 0.100 CEHV= 0.800
*SECNO .570

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			50 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.57	1650.	1.	1649.	0.	1.47	4	50.	
2507.37	0.0	2.	169.	0.	0.80	0	2506.80	
5.37	0.0	0.60	9.73	0.01	5.75	2508.84	2507.20	
0.022741	0.051	0.160	0.055	0.160	0.64	-0.00	195.58	

2502.00	440.	440.	440.	27.	22.	245.31	21.

CCHV= 0.100 CEHV= 0.500
*SECNO .580

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2511.40 ELREA= 2511.50

0.58	1650.	0.	1650.	0.	0.77	2	44.	
2509.12	0.0	0.	234.	0.	-0.70	0	2507.10	
6.82	0.0	0.0	7.06	0.0	0.99	2509.90	2507.50	
0.007804	0.051	0.160	0.055	0.160	0.07	-0.00	201.00	
	2502.30	80.	80.	80.	22.	22.	245.00	22.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2507.67 ,NOT 2509.12
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	10.00	3.10	155.00	1.78

ELCHU	ELCHD
2502.30	2502.30

*SECNO .580

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2511.94	2511.48	0.0	0.	1644.	155.	155.	2509.90

ELTRD
2511.90

*** NOTE: QWEIR IS GREATER THAN 0 AND ELEV IS LESS THAN ELTRD ***

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2511.90 ELREA= 2512.00

0.58	1650.	0.	1650.	0.	0.36	3	44.	
2511.55	0.0	0.	340.	0.	-0.41	0	2507.10	
9.25	0.0	0.0	4.85	0.0	2.02	2511.92	2507.50	
0.002222	0.051	0.160	0.055	0.160	0.0	-0.00	201.00	
	2502.30	10.	10.	10.	22.	22.	245.00	22.

*SECNO .580

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.58	1650.	5.	1644.	0.	1.08	2	57.	
2511.29	0.0	7.	197.	1.	0.71	0	2510.10	
5.99	0.0	0.77	8.35	0.54	0.09	2512.37	2510.50	
0.013672	0.051	0.160	0.055	0.160	0.36	-0.00	189.56	
	2505.30	20.	20.	20.	33.	24.	246.50	22.

CCHV= 0.100 CEHV= 0.800
*SECNO .690

0.69	1620.	142.	1469.	9.	1.49	10	108.	
2520.36	2520.29	89.	143.	6.	0.41	12	2519.40	
7.26	0.0	1.61	10.28	1.57	9.16	2521.86	2517.50	
0.020809	0.052	0.150	0.060	0.150	0.33	-0.00	171.56	
	2513.10	550.	550.	550.	91.	17.	279.85	25.

*SECNO .700

AYLES CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.70	1620.	198.	1416.	7.	1.53	2	104.	
2522.50	2522.50	101.	133.	4.	0.04	11	2521.90	
6.90	0.0	1.96	10.61	1.55	0.90	2524.04	2520.00	
0.024257	0.052	0.150	0.060	0.150	0.03	-0.00	175.30	
	2515.60	40.	40.	40.	88.	16.	279.36	25.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	6.00	0.01	45.00	0.0

ELCHU	ELCHD
2515.60	2515.60

*SECNO .700

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2524.28	2524.20	0.00	1240.	380.	45.	45.	2523.10

ELTRD
2520.10

0.70	1620.	311.	1298.	11.	0.85	3	117.
2523.42	0.0	175.	158.	8.	-0.68	0	2521.90
7.82	0.0	1.77	8.24	1.33	0.24	2524.28	2520.00

0.011730	0.052	0.150	0.060	0.150	0.0	-0.00	163.84	
	2515.60	30.	30.	30.	99.	18.	280.61	25.

*SECNO .720

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.72	1610.	9.	1595.	6.	1.38	4	70.	
2523.76	2522.64	10.	169.	9.	0.52	14	2523.50	
7.16	0.0	0.87	9.46	0.74	0.44	2525.14	2522.70	
0.010521	0.052	0.130	0.045	0.130	0.42	-0.00	71.69	
	2516.60	40.	40.	40.	33.	38.	143.18	25.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2523.24 ,NOT 2523.76
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.10	55.00	0.0

ELCHU	ELCHD
2516.60	2516.60

*SECNO .720

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2545.05	2525.78	0.0	1113.	502.	55.	55.	2520.30

ELTRD
2522.10

0.72	1610.	41.	1527.	41.	0.78	3	78.	
2525.05	0.0	36.	210.	38.	-0.59	0	2523.50	
8.45	0.0	1.13	7.28	1.09	0.69	2525.83	2522.70	
0.004657	0.052	0.130	0.045	0.130	0.0	-0.00	66.82	
	2516.60	10.	10.	10.	38.	40.	144.61	25.

*SECNO .720

0.72	1610.	48.	1520.	42.	0.89	2	78.	
2525.08	0.0	37.	196.	39.	0.10	0	2523.50	
6.88	0.0	1.29	7.77	1.08	0.05	2525.97	2522.70	
0.005934	0.052	0.130	0.045	0.150	0.08	-0.00	66.75	
	2518.20	10.	10.	10.	38.	40.	144.64	26.

CCHV= 0.100 CEHV= 0.800

CCHV= 0.100 CEHV= 0.500


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*SECNO .800
    AYLES CREEK                    50 YR FLOOD          11/11/81
   MILE        Q          QLOB        QCH         QROB        HV          ITRIAL      TOPWID
   ELEV      CRIWS        ALOB        ACH         AROB        DHV           IDC       BANK ELEV
   DEPTH     WSELK        VLOB        VCH         VROB        HL            EG      LEFT/RIGHT
   SLOPE       WTN         XNL        XNCH        XNR         OLOSS       CORAR       SSTA
               ELMIN       XLOBL      XLCH        XLOBR       WSDL        WSDR        ENDST       VOL

     0.80      1585.         0.      1585.         0.        1.33           2         40.
  2529.72        0.0         0.       172.         0.        0.44           0    2530.20
     6.22        0.0         0.0      9.24         0.0       4.73     2531.05    2530.50
 0.018613        0.053       0.150    0.055        0.150     0.35       -0.00      93.75
             2523.50         490.     490.         490.      20.          20.     133.78       28.


CCHV=   0.100 CEHV=   0.500
*SECNO .810

3301 HV CHANGED MORE THAN HVINS

     0.81      1585.        30.      1554.         1.        0.50           2         83.
  2531.09        0.0         41.       270.         2.       -0.82           0    2529.20
     8.59        0.0         0.74     5.74         0.50      0.46     2531.59    2529.50
 0.004207        0.053       0.150    0.055        0.150     0.08       -0.00      54.75
             2522.50         60.      60.          60.       59.          24.     137.74       28.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2530.55 ,NOT   2531.09
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK          XKOR        COFQ        RDLEN       BWC         BWP         BAREA       SS
       1.25        1.60        3.00        0.0         10.00       0.30        60.00       0.0
    ELCHU       ELCHD
  2522.50     2522.50

*SECNO .810

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

     EGPRS       EGLWC         H3        QWEIR       QPR         BAREA       TAREA       ELLC
  2548.43     2534.18         0.0         927.        663.        60.         60.     2528.70

     ELTRD
  2531.80


     0.81      1585.        137.     1440.         8.        0.19           2        114.
  2533.93        0.0         187.      389.        17.       -0.31           0    2529.20
    11.43        0.0         0.73     3.70         0.50      2.53     2534.12    2529.50
 0.001072        0.053       0.150    0.055        0.150     0.0        -0.00      28.64
             2522.50         10.      10.          10.       85.          29.     142.60       28.


*SECNO .810
     0.81      1585.        51.      1532.         3.        0.42           2         88.
  2533.83        0.0         59.       289.        4.        0.23           0    2531.50
```

9.03	0.0	0.86	5.30	0.71	0.02	2534.26	2531.80	
0.002196	0.053	0.110	0.045	0.090	0.11	-0.00	50.01	
	2524.80	15.	15.	15.	64.	24.	138.49	29.

CCHV= 0.100 CEHV= 0.800
*SECNO .910

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			50 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.91	1555.	4.	1550.	1.	1.66	5	100.	
2536.78	2536.78	7.	150.	2.	1.24	14	2537.20	
5.48	0.0	0.54	10.36	0.60	2.08	2538.44	2536.40	
0.021759	0.052	0.110	0.050	0.120	0.99	-0.00	173.24	
	2531.30	415.	415.	415.	95.	30.	298.47	31.

CCHV= 0.100 CEHV= 0.500
*SECNO .920

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			50 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.92	1555.	267.	1239.	49.	0.41	4	242.	
2538.48	0.0	226.	217.	60.	-1.26	0	2537.20	
7.18	0.0	1.18	5.70	0.82	0.32	2538.89	2536.40	
0.004147	0.052	0.110	0.050	0.120	0.13	-0.00	103.90	
	2531.30	40.	40.	40.	164.	78.	345.60	31.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2537.74 ,NOT 2538.48
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	PDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	14.00	0.30	55.00	0.0
ELCHU	ELCHD							
2531.30	2531.30							

```
*SECNO .920

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2538.89 HIGHER THAN COMPUTED ENERGY OF 2538.77
PRESSURE AND WEIR FLOW

    EGPRS     EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
  2558.34   2540.29       0.0     1366.      188.       55.       55.   2535.30

    ELTRD
  2536.50

     0.92     1555.      269.     1237.       50.      0.40         2      242.
  2538.48       0.0      227.      218.       61.     -0.00         0   2537.20
     7.18       0.0      1.18      5.68      0.82       0.0   2538.89   2536.40
 0.004104     0.052     0.110     0.050     0.120       0.0     -0.00    103.86
            2531.30       12.       12.       12.      164.       78.    345.92        32.

*SECNO .920
     0.92     1555.      376.     1102.       76.      0.43         0      243.
  2538.52       0.0      232.      179.       63.      0.03         0   2537.20
     5.92       0.0      1.62      6.17      1.22      0.05   2538.95   2536.40
 0.005028     0.052     0.090     0.045     0.090      0.01     -0.00    103.74
            2532.60       10.       10.       10.      164.       79.    346.85        32.

*SECNO 1.250
    AYLES CREEK                    50 YR FLOOD         11/11/81
   MILE       Q        QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV       CRIWS    ALOB      ACH       AROB      DHV       IDC       BANK ELEV
   DEPTH      WSELK    VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
   SLOPE      WTN      XNL       XNCH      XNR       OLOSS     CORAR     SSTA
              ELMIN    XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.25     1465.      424.     1040.        1.      0.69        13      346.
  2559.98   2559.98      256.      133.        3.      0.26         8   2559.50
     6.38       0.0      1.66      7.82      0.32     11.22   2560.67   2559.90
 0.008501     0.050     0.080     0.045     0.080      0.13     -0.00    128.73
            2553.60     1760.     1760.     1760.      297.       49.    475.09        49.

*SECNO 1.280

*** GR CARDS REPEATED
    AYLES CREEK                    50 YR FLOOD         11/11/81
   MILE       Q        QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV       CRIWS    ALOB      ACH       AROB      DHV       IDC       BANK ELEV
   DEPTH      WSELK    VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
   SLOPE      WTN      XNL       XNCH      XNR       OLOSS     CORAR     SSTA
              ELMIN    XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST       VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.28     1455.      426.     1028.        1.      0.67        20      347.
```

2566.59	2566.59	259.	133.	3.	-0.02	5	2566.10	
6.39	0.0	1.65	7.72	0.34	1.26	2567.25	2566.50	
0.008241	0.050	0.080	0.045	0.080	0.00	-0.00	128.26	
	2560.20	150.	150.	150.	298.	49.	475.10	50.

*SECNO 1.590

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			50 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.59	1365.	0.	1365.	0.	1.89	13	33.	
2590.46	2590.46	0.	124.	0.	1.22	11	2594.50	
5.66	0.0	0.0	11.03	0.0	20.95	2592.35	2593.70	
0.021544	0.049	0.150	0.045	0.090	0.61	-0.00	62.07	
	2584.80	1690.	1690.	1690.	15.	18.	95.27	61.

*SECNO 1.590

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2594.00 ELREA= 2594.00

1.59	1365.	0.	1365.	0.	0.89	3	38.	
2592.03	0.0	0.	180.	0.	-0.99	0	2594.50	
7.23	0.0	0.0	7.59	0.0	0.48	2592.93	2593.70	
0.007603	0.049	0.150	0.045	0.090	0.10	-0.00	59.32	
	2584.80	40.	40.	40.	18.	20.	97.56	61.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	35.00	0.30	260.00	0.0
ELCHU	ELCHD							
2584.80	2584.80							

*SECNO 1.590

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.= 2592.02 BRIDGE VELOCITY= 5.45
CALCULATED CHANNEL AREA= 251.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2592.72	2592.95	0.04	0.	1365.	260.	260.	2592.30

```
  ELTRD
2594.50


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2594.50 ELREA=     2594.50

     1.59      1365.         0.      1365.         0.       0.88         0        38.
  2592.07       0.0          0.       181.         0.      -0.01         0    2594.50
     7.27       0.0         0.0       7.53        0.0       0.02   2592.95    2593.70
 0.007434      0.049       0.150     0.045      0.090       0.0      -0.00      59.25
             2584.80        12.        12.        12.        18.       20.      97.62         61.

*SECNO 1.600

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                  50 YR FLOOD          11/11/81
   MILE         Q         QLOB       QCH        QROB        HV         ITRIAL     TOPWID
   ELEV         CRIWS     ALOB       ACH        AROB        DHV        IDC        BANK ELEV
   DEPTH        WSELK     VLOB       VCH        VROB        HL         EG      LEFT/RIGHT
   SLOPE        WTN       XNL        XNCH       XNR         OLOSS      CORAR      SSTA
                ELMIN     XLOBL      XLCH       XLOBR       WSDL       WSDR       ENDST       VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.60      1365.         0.      1365.         0.       1.65        20        41.
  2593.13    2593.13         0.       133.         0.       0.77        19    2594.50
     5.13       0.0         0.0      10.30        0.0       0.12   2594.78    2593.70
 0.021574      0.049       0.150     0.045      0.090       0.38     -0.00      57.49
             2588.00        10.        10.        10.        20.       21.      98.50         61.

*SECNO 1.870

3265 DIVIDED FLOW

    AYLES CREEK                  50 YR FLOOD          11/11/81
   MILE         Q         QLOB       QCH        QROB        HV         ITRIAL     TOPWID
   ELEV         CRIWS     ALOB       ACH        AROB        DHV        IDC        BANK ELEV
   DEPTH        WSELK     VLOB       VCH        VROB        HL         EG      LEFT/RIGHT
   SLOPE        WTN       XNL        XNCH       XNR         OLOSS      CORAR      SSTA
                ELMIN     XLOBL      XLCH       XLOBR       WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.87      1285.        12.      1273.         0.       1.30         4       122.
  2626.72    2626.72        20.       139.         0.      -0.35         5    2627.80
     5.22       0.0         0.60      9.18        0.0      31.64   2628.02    2626.90
 0.022094      0.049       0.150     0.050      0.150       0.03     -0.00     179.96
             2621.50      1450.      1450.      1450.       121.       22.     323.14         66.

*SECNO 1.880

3265 DIVIDED FLOW

    AYLES CREEK                  50 YR FLOOD          11/11/81
```

J04

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.88	1285.	202.	987.	96.	0.89	20	330.	
2631.82	2631.82	214.	114.	64.	-0.41	11	2626.90	
6.22	0.0	0.94	8.62	1.50	1.07	2632.71	2627.20	
0.008907	0.049	0.150	0.050	0.150	0.04	-0.00	26.03	
	2625.60	80.	80.	80.	269.	62.	357.68	66.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.00	0.01	80.00	0.0

ELCHU	ELCHD
2625.60	2625.60

*SECNO 1.880

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2638.23	2632.71	0.00	623.	664.	80.	80.	2629.40

ELTRD
2631.50

1.88	1285.	470.	683.	132.	0.18	2	345.	
2633.35	0.0	614.	147.	150.	-0.71	0	2626.90	
7.75	0.0	0.77	4.66	0.88	0.82	2633.53	2627.20	
0.001868	0.049	0.150	0.050	0.150	0.0	-0.00	22.07	
	2625.60	16.	16.	16.	273.	71.	366.61	66.

*SECNO 1.880

1.88	1285.	538.	686.	60.	0.06	2	346.	
2633.49	0.0	618.	262.	80.	-0.12	0	2631.90	
7.89	0.0	0.87	2.62	0.76	0.01	2633.55	2631.00	
0.000667	0.049	0.080	0.045	0.080	0.01	-0.00	21.84	
	2625.60	10.	10.	10.	279.	66.	367.44	67.

CCHV= 0.100 CEHV= 0.800
*SECNO 1.900
WATER EL=X5 CARD= 2633.490

3265 DIVIDED FLOW

K04

1.90	1280.	101.	1179.	0.	0.62	0	164.	
2633.49	0.0	85.	179.	0.	0.80	0	2632.50	
7.39	0.0	1.18	6.60	0.53	0.06	2634.11	2633.00	
0.008542	0.049	0.100	0.055	0.100	0.45	-0.00	447.42	
	2626.10	35.	35.	35.	177.	21.	645.96	67.

CCHV= 0.100 CEHV= 0.500
*SECNO 1.900

*** GR CARDS REPEATED

3265 DIVIDED FLOW

1.90	1280.	94.	1186.	0.	0.62	2	190.	
2633.57	0.0	96.	181.	1.	-0.01	0	2632.50	
7.47	0.0	0.98	6.53	0.47	0.07	2634.18	2633.00	
0.005490	0.049	0.100	0.045	0.100	0.00	-0.00	444.50	
	2626.10	10.	10.	10.	180.	22.	646.25	67.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	20.00	0.20	115.00	0.0

ELCHU	ELCHD
2626.10	2626.10

*SECNO 1.900

*** GR CARDS REPEATED

AYLES CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2636.64	2634.19	0.02	422.	865.	115.	115.	2631.90

ELTRD
2633.60

1.90	1280.	282.	995.	3.	0.23	2	237.	
2634.74	0.0	304.	227.	6.	-0.38	0	2632.50	
8.64	0.0	0.93	4.37	0.57	0.79	2634.97	2633.00	
0.001821	0.049	0.100	0.045	0.100	0.0	-0.00	414.46	
	2626.10	32.	32.	32.	210.	26.	650.97	67.

*SECNO 1.900

1.90	1280.	284.	990.	6.	0.29	2	236.	
2634.73	0.0	303.	203.	6.	0.06	0	2632.50	
6.43	0.0	0.94	4.89	0.93	0.02	2635.02	2633.00	
0.003185	0.049	0.130	0.050	0.080	0.03	-0.00	414.58	

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          2628.30       10.       10.       10.      210.       26.    650.94       68.


 *SECNO 2.170

 3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                 50 YR FLOOD           11/11/81
   MILE      Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV      CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
   DEPTH     WSELK     VLOB      VCH       VROB      HL        EG     LEFT/RIGHT
   SLOPE     WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
             ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST       VOL

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      2.17     1200.        0.     1200.        0.      1.69        20       35.
   2667.69   2667.69        0.      115.        0.      1.40        15   2671.30
      5.09       0.0       0.0     10.42       0.0      8.91   2669.38   2674.40
  0.022062     0.049     0.130     0.045     0.150      0.70     -0.00    133.02
             2662.60     1370.     1370.     1370.       16.       19.    168.00       77.


 *SECNO 2.180

 *** GR CARDS REPEATED
    AYLES CREEK                 50 YR FLOOD           11/11/81
   MILE      Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV      CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
   DEPTH     WSELK     VLOB      VCH       VROB      HL        EG     LEFT/RIGHT
   SLOPE     WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
             ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST       VOL

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
      2.18     1200.        0.     1200.        0.      1.66         0       35.
   2669.22   2669.22        0.      116.        0.     -0.02         5   2672.80
      5.12       0.0       0.0     10.35       0.0      1.31   2670.88   2675.90
  0.021671     0.049     0.130     0.045     0.150      0.00     -0.00    132.95
             2664.10       60.       60.       60.       17.       19.    168.03       78.


 SPECIAL BRIDGE

 5227 DOWNSTREAM ELEV IS   2668.18 ,NOT   2669.22
 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

 SB     HK        XKOR      COFQ      RDLEN      BWC       BWP       BAREA       SS
      1.25      1.60      3.00       0.0     20.00      0.90    105.00       0.0
    ELCHU     ELCHD
   2664.10   2664.10

 *SECNO 2.180

 *** GR CARDS REPEATED

 3301 HV CHANGED MORE THAN HVINS
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PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2672.46	2671.17	0.0	68.	1131.	105.	105.	2669.60

ELTRD
2671.00

2.18	1200.	0.	1200.	0.	0.49	2	47.	
2671.61	0.0	0.	214.	0.	-1.18	0	2672.80	
7.51	0.0	0.0	5.61	0.0	1.22	2672.10	2675.90	
0.004140	0.049	0.130	0.045	0.150	0.0	-0.00	124.94	
	2664.10	12.	12.	12.	25.	22.	171.61	78.

*SECNO 2.180

*** GR CARDS REPEATED

AYLES CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.18	1200.	0.	1200.	0.	0.47	2	47.	
2671.69	0.0	0.	217.	0.	-0.01	0	2672.80	
7.59	0.0	0.0	5.52	0.0	0.06	2672.16	2675.90	
0.003974	0.049	0.130	0.045	0.100	0.00	-0.00	124.71	
	2664.10	15.	15.	15.	25.	22.	171.72	78.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.210

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 50 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.21	1195.	30.	1105.	60.	1.52	3	64.	
2672.51	2672.51	15.	107.	30.	1.05	14	2670.40	
4.91	0.0	2.04	10.29	2.04	0.28	2674.03	2670.30	
0.023949	0.049	0.150	0.055	0.120	0.84	-0.00	52.83	
	2667.60	35.	35.	35.	24.	40.	116.83	78.

CCHV= 0.100 CEHV= 0.500
*SECNO 2.210

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

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3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2675.00 ELREA=     2675.80

     2.21     1195.        0.     1195.        0.      0.94         2       27.
  2674.22      0.0         0.      154.        0.     -0.58         0  2670.40
     6.62      0.0        0.0      7.78        0.      1.07   2675.16  2670.30
 0.008503     0.049      0.150     0.055      0.120     0.06     -0.00    63.00
             2667.60       80.       80.        80.      14.        14.    90.00       78.


SPECIAL BRIDGE

SB      HK          XKOR        COFQ        RDLEN       BWC         BWP        BAREA       SS
        1.25        1.60        3.00        0.0         25.00       0.70       148.00      0.0
     ELCHU       ELCHD
  2667.60     2667.60

*SECNO 2.210

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

     EGPRS       EGLWC          H3       QWEIR         QPR       BAREA       TAREA        ELLC
  2675.84     2675.25        0.14          2.        1195.        148.        148.     2673.70

     ELTRD
  2675.50

*** NOTE: QWEIR IS GREATER THAN 0 AND ELEV IS LESS THAN ELTRD ***

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2675.50 ELREA=     2676.30

     2.21     1195.        0.     1195.        0.      0.70         4       27.
  2675.14      0.0         0.      178.        0.     -0.24         0  2670.40
     7.54      0.0        0.0      6.70        0.      0.68   2675.83  2670.30
 0.005156     0.049      0.150     0.055      0.120     0.0      -0.00    63.00
             2667.60       39.       39.        39.      14.        14.    90.00       78.


*SECNO 2.210

*** GR CARDS REPEATED
     2.21     1195.       36.     1095.       64.      1.13         2       72.
  2675.07      0.0        21.      123.       47.      0.44         0  2672.40
     5.47      0.0       1.75     8.91        1.37     0.15   2676.21  2672.30
 0.012435     0.049      0.150     0.050      0.150     0.22     -0.00    51.81
             2669.60       20.       20.        20.      25.        47.   123.76       78.


*SECNO 2.290
   AYLES CREEK                          50 YR FLOOD              11/11/81
   MILE        Q           QLOB        QCH         QROB        HV          ITRIAL      TOPWID
   ELEV        CRIWS       ALOB        ACH         AROB        DHV         IDC         BANK ELEV
   DEPTH       WSELK       VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
   SLOPE       WTN         XNL         XNCH        XNR         OLOSS       CORAR       SSTA
               ELMIN       XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST       VOL
```

B05

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.29	1170.	53.	1117.	0.	1.48	12	52.	
2682.32	2682.32	26.	112.	0.	0.34	15	2680.80	
4.82	0.0	2.03	9.98	0.0	6.40	2683.80	2683.00	
0.024315	0.049	0.150	0.050	0.130	0.17	-0.00	36.04	
	2677.50	380.	380.	380.	36.	16.	88.24	80.

C05

C05

THIS RUN EXECUTED 11/11/81 7:48:52

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************

T1      YANCEY CO NC FEMA STUDY                                          1950
T2      100 YR FLOOD                                                     1955
T3      AYLES CREEK                                                      1960

J1  ICHECK     INQ    NINV    IDIR    STRT  METRIC   HVINS      Q      WSEL    FQ
         0.      4.      0.      0. 0.00884      0.     0.0      0.     0.0     0.0    1965

J2  NPROF   IPLOT   PRFVS   XSECV   XSECH      FN   ALLDC     IBW   CHNIM ITRACE
         3.      0.    -1.      0.      0.     0.0     0.0      0.      0.      0.    1970
```

D05

*PROF 3

CCHV= 0.100 CEHV= 0.500
*SECNO .030
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	KL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.03	2220.	6.	2152.	62.	1.37	0	94.	
2455.91	2453.90	6.	226.	31.	0.50	11	2455.50	
8.91	0.0	0.95	9.54	1.97	0.0	2457.29	2455.20	
0.008849	0.0	0.070	0.045	0.070	0.0	0.0	560.67	
	2447.00	0.	0.	0.	68.	46.	675.00	0.

*SECNO .030

*** GR CARDS REPEATED

3265 DIVIDED FLOW

0.03	2220.	45.	2055.	121.	1.00	2	95.	
2456.61	0.0	30.	247.	53.	-0.37	0	2455.50	
9.61	0.0	1.47	8.33	2.27	0.29	2457.61	2455.20	
0.005985	0.044	0.070	0.045	0.070	0.04	-0.00	559.65	
	2447.00	40.	40.	40.	69.	46.	675.00	0.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	24.00	0.90	150.00	0.0
	ELCHU	ELCHD						
	2447.00	2447.00						

*SECNO .030

*** GR CARDS REPEATED

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2462.05	2457.77	0.16	1095.	1131.	150.	150.	2453.50

ELTRD
2455.40

0.03	2220.	91.	1958.	171.	0.75	3	96.

E05

2457.27	0.0	53.	266.	74.	-0.25	0	2455.50	
10.27	0.0	1.71	7.35	2.33	0.41	2458.02	2455.20	
0.004207	0.044	0.070	0.045	0.070	0.0	-0.00	558.69	
	2447.00	32.	32.	32.	70.	46.	675.00	1.

*SECNO .030

3265 DIVIDED FLOW

0.03	2220.	115.	1613.	492.	0.58	2	165.	
2457.50	0.0	61.	229.	208.	-0.17	0	2455.50	
9.10	0.0	1.88	7.04	2.36	0.04	2458.08	2455.20	
0.004305	0.043	0.070	0.045	0.070	0.02	-0.00	558.36	
	2448.40	10.	10.	10.	71.	114.	743.17	1.

*SECNO .080
AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.08	2200.	329.	1492.	379.	0.58	2	274.	
2458.44	0.0	219.	205.	163.	-0.01	0	2456.20	
6.74	0.0	1.50	7.27	2.32	0.94	2459.02	2454.70	
0.005143	0.044	0.100	0.045	0.070	0.00	-0.00	222.85	
	2451.70	200.	200.	200.	159.	114.	496.40	3.

*SECNO .080

0.08	2200.	410.	1339.	450.	0.35	2	292.	
2459.00	0.0	302.	225.	219.	-0.22	0	2456.20	
7.30	0.0	1.36	5.94	2.05	0.31	2459.35	2454.70	
0.003028	0.044	0.100	0.045	0.070	0.02	-0.00	210.18	
	2451.70	80.	80.	80.	172.	120.	502.03	4.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2458.93 ,NOT 2459.00
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	17.00	0.30	90.00	0.0
	ELCHU	ELCHD						
	2451.70	2451.70						

*SECNO .080

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2473.84	2461.41	0.0	1537.	664.	90.	90.	2457.10

ELTRD

```
 2457.70

    0.08     2200.      541.     1102.      557.      0.15         2      311.
 2460.20      0.0       493.      269.      349.     -0.21         0   2456.20
    8.51      0.0       1.10      4.10      1.60      1.00   2460.35   2454.70
 0.001142     0.044     0.100     0.045     0.070     0.0      -0.00    201.99
          2451.70       10.       10.       10.      180.      131.    512.61        5.

*SECNO .080

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                   100 YR FLOOD        11/11/81
   MILE       Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV       CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
   DEPTH      WSELK     VLOB      VCH       VROB      HL        EG     LEFT/RIGHT
   SLOPE      WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
              ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST       VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    0.08     2200.      192.     1840.      167.      1.26        20      258.
 2460.25  2460.25       152.      188.      117.      1.11        19   2458.50
    6.25      0.0       1.26      9.81      1.43      0.05   2461.50   2457.00
 0.010567     0.044     0.140     0.045     0.140     0.56     -0.00    233.93
          2454.00       20.       20.       20.      148.      109.    491.48        5.

CCHV=   0.100 CEHV=   0.800
*SECNO .150
    0.15     2175.      378.     1556.      241.      0.78         2      242.
 2464.10      0.0       169.      188.       90.     -0.47         0   2461.80
    6.90      0.0       2.24      8.26      2.67      3.33   2464.88   2461.60
 0.011677     0.049     0.090     0.055     0.090     0.05     -0.00    352.54
          2457.20      300.      300.      300.      171.       71.    595.02        8.

CCHV=   0.100 CEHV=   0.500
*SECNO .160

*** GR CARDS REPEATED
    AYLES CREEK                   100 YR FLOOD        11/11/81
   MILE       Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV       CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
   DEPTH      WSELK     VLOB      VCH       VROB      HL        EG     LEFT/RIGHT
   SLOPE      WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
              ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST       VOL

    0.16     2175.      376.     1558.      241.      0.79         2      242.
 2464.80      0.0       168.      188.       90.      0.01         0   2462.50
    6.90      0.0       2.24      8.29      2.67      0.70   2465.59   2462.30
 0.011778     0.049     0.090     0.055     0.090     0.00     -0.00    353.03
          2457.90       60.       60.       60.      171.       71.    594.98        9.

SPECIAL BRIDGE
```

5227 DOWNSTREAM ELEV IS 2464.01 ,NOT 2464.80
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	22.00	0.30	100.00	0.0

ELCHU	ELCHD
2457.90	2457.90

*SECNO .160

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2476.55	2466.38	0.0	1505.	671.	100.	100.	2462.50

ELTRD
2463.80

0.16	2175.	539.	1346.	290.	0.40	3	292.	
2465.52	0.0	294.	215.	129.	-0.39	0	2462.50	
7.62	0.0	1.83	6.25	2.25	0.33	2465.91	2462.30	
0.005588	0.049	0.090	0.055	0.090	0.0	-0.00	304.76	
	2457.90	31.	31.	31.	217.	75.	598.86	9.

*SECNO .160

0.16	2175.	448.	1461.	266.	0.51	2	294.	
2465.54	0.0	298.	213.	130.	0.11	0	2462.50	
7.64	0.0	1.50	6.87	2.05	0.08	2466.04	2462.30	
0.004592	0.049	0.100	0.045	0.090	0.05	-0.00	305.42	
	2457.90	15.	15.	15.	219.	75.	598.97	9.

CCHV= 0.100 CEHV= 0.800
*SECNO .260

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.26	2135.	100.	1798.	237.	1.77	9	84.	
2471.69	2471.69	31.	155.	82.	1.26	19	2468.40	
5.69	0.0	3.19	11.57	2.88	4.03	2473.46	2467.40	
0.010607	0.049	0.100	0.050	0.130	1.01	-0.00	43.45	
	2466.00	495.	495.	495.	33.	51.	127.24	14.

*SECNO .270

*** GR CARDS REPEATED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2472.80 ELREA= 2471.70

0.27	2135.	0.	1846.	289.	1.51	2	70.	
2472.60	0.0	0.	175.	105.	-0.26	0	2468.70	
6.30	0.0	0.0	10.54	2.75	0.62	2474.11	2467.70	
0.013166	0.049	0.100	0.050	0.130	0.03	-0.00	60.00	
	2466.30	40.	40.	40.	16.	54.	130.18	15.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.00	0.10	115.00	0.0

ELCHU	ELCHD
2466.30	2466.30

*SECNO .270

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2481.17	2474.16	0.05	946.	1190.	115.	115.	2471.80

ELTRD
2472.20

0.27	2135.	186.	1589.	360.	0.50	2	102.	
2474.76	0.0	85.	244.	198.	-1.00	0	2468.70	
8.46	0.0	2.20	6.50	1.82	1.15	2475.26	2467.70	
0.003222	0.049	0.100	0.050	0.130	0.0	-0.00	38.00	
	2466.30	10.	10.	10.	38.	64.	140.45	15.

*SECNO .280

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

```
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      0.28    2135.        76.     1827.      232.       1.82         20       84.
   2475.73 2475.73        32.      157.       83.       1.32         14   2472.40
      5.73     0.0       2.37     11.66      2.78       0.07    2477.55   2471.40
  0.022668    0.049     0.150     0.055     0.150       1.06      -0.00     43.37
           2470.00        10.       10.       10.        33.        51.    127.41        15.


*SECNO .420
    AYLES CREEK                   100 YR FLOOD        11/11/81
   MILE        Q         QLOB      QCH        QROB       HV         ITRIAL     TOPWID
   ELEV        CRIWS     ALOB      ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH       WSELK     VLOB      VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE       WTN       XNL       XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN     XLOBL     XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      0.42    2080.         0.     1645.      435.       1.48          5      126.
   2493.61 2493.61         0.      150.      185.      -0.34          8   2493.50
      6.31     0.0       0.21     10.93      2.35      16.01    2495.10   2491.20
  0.020096    0.050     0.150     0.050     0.150       0.03       0.0     157.78
           2487.30       750.      750.      750.        19.       107.    284.00        20.


*SECNO .430

*** GR CARDS REPEATED
    AYLES CREEK                   100 YR FLOOD        11/11/81
   MILE        Q         QLOB      QCH        QROB       HV         ITRIAL     TOPWID
   ELEV        CRIWS     ALOB      ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH       WSELK     VLOB      VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE       WTN       XNL       XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN     XLOBL     XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2496.80 ELREA=     2494.70

      0.43    2080.         0.     1644.      436.       1.48          2      124.
   2495.62 2495.62         0.      151.      186.      -0.00          5   2495.50
      6.32     0.0        0.0     10.91      2.35       1.20    2497.10   2493.20
  0.020007    0.050     0.150     0.050     0.150       0.00       0.0     160.00
           2489.30        60.       60.       60.        17.       107.    284.01        21.


SPECIAL BRIDGE

SB     HK       XKOR      COFQ      RDLEN       BWC       BWP       BAREA       SS
      1.25      1.60      3.00       0.0      20.00      0.01      108.00       0.0
   ELCHU     ELCHD
   2489.30   2489.30

*SECNO .430

*** GR CARDS REPEATED
```

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2504.83	2497.10	0.01	984.	1099.	108.	108.	2494.70

ELTRD
2495.20

0.43	2080.	39.	1416.	624.	0.44	2	155.	
2497.75	0.0	44.	224.	383.	-1.04	0	2495.50	
8.45	0.0	0.89	6.34	1.63	1.10	2498.19	2493.20	
0.003986	0.050	0.150	0.050	0.150	0.0	-0.00	133.00	
	2489.30	10.	10.	10.	44.	111.	288.21	21.

*SECNO .430

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.43	2080.	0.	2041.	39.	0.33	1	123.	
2497.92	0.0	0.	436.	40.	-0.10	0	2498.00	
6.32	0.0	0.0	4.68	0.99	0.05	2498.25	2495.70	
0.003243	0.050	0.150	0.050	0.100	0.01	-0.00	160.15	
	2491.60	15.	15.	15.	46.	78.	283.64	21.

CCHV= 0.100 CEHV= 0.800
*SECNO .480

3301 HV CHANGED MORE THAN HVINS

0.48	2060.	0.	2050.	10.	1.00	2	66.	
2498.61	0.0	0.	255.	7.	0.66	0	2500.30	
6.31	0.0	0.0	8.03	1.42	0.82	2499.61	2497.00	
0.012527	0.050	0.150	0.055	0.100	0.53	-0.00	43.01	
	2492.30	145.	145.	145.	27.	39.	108.59	22.

CCHV= 0.100 CEHV= 0.500
*SECNO .480

0.48	2060.	273.	1366.	421.	1.34	2	72.	
2499.47	0.0	84.	123.	114.	0.35	0	2492.80	
7.17	0.0	3.25	11.14	3.70	1.03	2500.81	2493.00	
0.013274	0.050	0.150	0.055	0.100	0.17	-0.00	41.48	
	2492.30	80.	80.	80.	28.	44.	113.13	23.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2498.51 ,NOT 2499.47
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

K05

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	18.00	0.90	115.00	0.0

ELCHU	ELCHD
2492.30	2492.30

*SECNO .480

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2507.44	2503.19	0.0	717.	1344.	115.	115.	2499.00

ELTRD
2499.80

0.48	2060.	266.	1090.	704.	0.33	2	164.	
2502.53	0.0	151.	178.	366.	-1.01	0	2492.80	
10.23	0.0	1.77	6.13	1.92	2.05	2502.86	2493.00	
0.002454	0.050	0.150	0.055	0.100	0.0	-0.00	34.43	
	2492.30	10.	10.	10.	35.	130.	198.52	23.

*SECNO .480

0.48	2060.	0.	2042.	18.	0.77	2	70.	
2502.39	0.0	0.	289.	13.	0.43	0	2503.50	
6.89	0.0	0.0	7.07	1.44	0.08	2503.16	2500.20	
0.008451	0.050	0.150	0.055	0.100	0.22	-0.00	41.97	
	2495.50	20.	20.	20.	28.	42.	111.71	23.

CCHV= 0.100 CEHV= 0.800
*SECNO .570

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.57	2025.	5.	2019.	0.	1.71	6	56.	
2507.88	2507.55	6.	192.	0.	0.94	15	2506.80	
5.88	0.0	0.92	10.50	0.63	5.68	2509.59	2507.20	
0.022327	0.051	0.160	0.055	0.160	0.75	-0.00	190.58	
	2502.00	440.	440.	440.	32.	23.	246.30	26.

CCHV= 0.100 CEHV= 0.500
*SECNO .580

*** GR CARDS REPEATED

L05

LO5

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2511.40 ELREA= 2511.50

0.58	2025.	0.	2025.	0.	0.93	2	44.	
2509.74	0.0	0.	261.	0.	-0.77	0	2507.10	
7.44	0.0	0.0	7.76	0.0	1.01	2510.68	2507.50	
0.008114	0.051	0.160	0.055	0.160	0.08	-0.00	201.00	
	2502.30	80.	80.	80.	22.	22.	245.00	26.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2508.31 ,NOT 2509.74
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	10.00	3.10	155.00	1.78

ELCHU	ELCHD
2502.30	2502.30

*SECNO .580

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2513.98	2512.84	0.0	279.	1750.	155.	155.	2509.90

ELTRD
2511.90

0.58	2025.	152.	1856.	17.	0.33	2	110.	
2512.58	0.0	169.	386.	24.	-0.60	0	2507.10	
10.28	0.0	0.90	4.81	0.69	2.23	2512.91	2507.50	
0.001856	0.051	0.160	0.055	0.160	0.0	-0.00	144.28	
	2502.30	10.	10.	10.	79.	32.	254.63	26.

*SECNO .580

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.58	2025.	23.	1999.	2.	1.06	2	68.	
2512.29	0.0	23.	241.	3.	0.73	0	2510.10	
6.99	0.0	1.00	8.30	0.81	0.07	2513.35	2510.50	
0.010324	0.051	0.160	0.055	0.160	0.36	-0.00	179.98	
	2505.30	20.	20.	20.	43.	25.	248.40	26.

CCHV= 0.100 CEHV= 0.800
*SECNO .690

MO5

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.69	1985.	256.	1715.	13.	1.64	9	115.	
2520.85	2520.85	128.	156.	8.	0.58	8	2519.40	
7.75	0.0	1.99	11.03	1.76	7.88	2522.49	2517.50	
0.021368	0.052	0.150	0.060	0.150	0.47	-0.00	165.39	
	2513.10	550.	550.	550.	98.	18.	280.51	30.

*SECNO .700

AYLES CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.70	1985.	321.	1653.	11.	1.66	2	111.	
2523.01	2523.01	140.	147.	6.	0.02	11	2521.90	
7.41	0.0	2.29	11.27	1.75	0.91	2524.67	2520.00	
0.024157	0.052	0.150	0.060	0.150	0.01	-0.00	169.03	
	2515.60	40.	40.	40.	94.	17.	280.05	30.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	6.00	0.01	45.00	0.0
ELCHU		ELCHD						
2515.60		2515.60						

*SECNO .700

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2524.81	2524.70	0.00	1606.	383.	45.	45.	2523.10

ELTRD
2520.10

0.70	1985.	421.	1549.	14.	1.08	4	121.

```
    2523.73      0.0       202.      165.        9.     -0.58         0   2521.90
       8.13      0.0       2.09      9.37      1.55      0.14   2524.81    2520.00
   0.014203    0.052      0.150     0.060     0.150       0.0     -0.00    160.11
             2515.60        30.       30.       30.      103.       18.    281.02       30.

 *SECNO .720

 3301 HV CHANGED MORE THAN HVINS

       0.72    1980.        21.     1941.       18.      1.77         4       74.
    2524.12  2523.59        17.      180.       17.      0.69        11   2523.50
       7.52      0.0       1.23     10.77      1.09      0.53   2525.89    2522.70
   0.012478    0.052      0.130     0.045     0.130      0.55     -0.00     69.87
             2516.60        40.       40.       40.       35.       39.    143.58       31.


 SPECIAL BRIDGE

 SB    HK       XKOR       COFQ     RDLEN       BWC       BWP     BAREA        SS
       1.25     1.60       3.00       0.0     15.00      0.10     55.00       0.0
   ELCHU     ELCHD
    2516.60  2516.60

 *SECNO .720

 *** GR CARDS REPEATED

 3301 HV CHANGED MORE THAN HVINS

 PRESSURE AND WEIR FLOW

      EGPRS    EGLWC         H3     QWEIR       QPR     BAREA     TAREA      ELLC
    2556.32  2525.98       0.09     1455.      526.       55.       55.   2520.30

      ELTRD
    2522.10


       0.72    1980.        61.     1857.       62.      1.04         3       79.
    2525.35      0.0        43.      220.       45.     -0.72         0   2523.50
       8.75      0.0       1.41      8.45      1.37      0.51   2526.40    2522.70
   0.005906    0.052      0.130     0.045     0.130       0.0     -0.00     66.15
             2516.60        10.       10.       10.       39.       40.    144.95       31.


 *SECNO .720
       0.72    1980.        71.     1847.       62.      1.17         2       79.
    2525.39      0.0        44.      206.       46.      0.13         0   2523.50
       7.19      0.0       1.59      8.98      1.34      0.07   2526.56    2522.70
   0.007416    0.052      0.130     0.045     0.150      0.10     -0.00     66.08
             2518.20        10.       10.       10.       39.       40.    144.99       31.

 CCHV=    0.100 CEHV=    0.800
 *SECNO .800
     AYLES CREEK                      100 YR FLOOD         11/11/81
    MILE       Q          QLOB      QCH        QROB      HV         ITRIAL      TOPWID
    ELEV       CRIWS      ALOB      ACH        AROB      DHV        IDC         BANK ELEV
```

DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.80	1945.	1.	1944.	0.	1.39	2	52.	
2530.55	0.0	2.	205.	0.	0.22	0	2530.20	
7.05	0.0	0.39	9.48	0.01	5.20	2531.94	2530.50	
0.016553	0.053	0.150	0.055	0.150	0.18	-0.00	83.40	
	2523.50	490.	490.	490.	31.	21.	135.07	33.

CCHV= 0.100 CEHV= 0.500
*SECNO .810

3301 HV CHANGED MORE THAN HVINS

0.81	1945.	73.	1869.	3.	0.56	2	92.	
2531.90	0.0	75.	305.	5.	-0.83	0	2529.20	
9.40	0.0	0.97	6.14	0.65	0.44	2532.46	2529.50	
0.004098	0.053	0.150	0.055	0.150	0.08	-0.00	46.70	
	2522.50	60.	60.	60.	67.	25.	139.13	34.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2531.73 ,NOT 2531.90
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	10.00	0.30	60.00	0.0

ELCHU	ELCHD
2522.50	2522.50

*SECNO .810

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2558.01	2535.87	0.0	1316.	630.	60.	60.	2528.70

ELTRD
2531.80

0.81	1945.	189.	1744.	12.	0.25	2	119.	
2534.38	0.0	218.	409.	20.	-0.31	0	2529.20	
11.88	0.0	0.87	4.27	0.60	2.18	2534.64	2529.50	
0.001339	0.053	0.150	0.055	0.150	0.0	-0.00	24.55	
	2522.50	10.	10.	10.	89.	29.	143.39	34.

*SECNO .810

0.81	1945.	84.	1856.	5.	0.54	2	93.	
2534.27	0.0	78.	307.	5.	0.29	0	2531.50	
9.47	0.0	1.07	6.04	0.88	0.03	2534.81	2531.80	
0.002631	0.053	0.110	0.045	0.090	0.14	-0.00	46.15	
	2524.80	15.	15.	15.	68.	25.	139.24	34.

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CCHV=   0.100 CEHV=   0.800
*SECNO .910

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                        100 YR FLOOD          11/11/81
  MILE        Q         QLOB       QCH        QROB       HV         ITRIAL     TOPWID
  ELEV        CRIWS     ALOB       ACH        AROB       DHV        IDC        BANK ELEV
  DEPTH       WSELK     VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
  SLOPE       WTN       XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN     XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     0.91     1910.      176.      1705.        29.       1.12          4       220.
  2537.78   2537.78      126.       190.        27.       0.58         15    2537.20
     6.48       0.0      1.40       8.99       1.08       2.03    2538.91    2536.40
 0.012414     0.052     0.110      0.050      0.120       0.47      -0.00     106.32
            2531.30      415.       415.       415.       162.        58.     326.28       38.

CCHV=   0.100 CEHV=   0.500
*SECNO .920

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                        100 YR FLOOD          11/11/81
  MILE        Q         QLOB       QCH        QROB       HV         ITRIAL     TOPWID
  ELEV        CRIWS     ALOB       ACH        AROB       DHV        IDC        BANK ELEV
  DEPTH       WSELK     VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
  SLOPE       WTN       XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN     XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

     0.92     1910.      381.      1454.        75.       0.48          3       253.
  2538.78       0.0      269.       229.        78.      -0.64          0    2537.20
     7.48       0.0      1.42       6.34       0.96       0.29    2539.26    2536.40
 0.004782     0.052     0.110      0.050      0.120       0.06      -0.00     102.87
            2531.30       40.        40.        40.       165.        99.     367.21       38.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2538.69 ,NOT   2538.78
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK        XKOR       COFQ      RDLEN       BWC        BWP        BAREA      SS
     1.25        1.60       3.00       0.0       14.00       0.30       55.00      0.0
  ELCHU       ELCHD
  2531.30     2531.30

*SECNO .920

*** GR CARDS REPEATED
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6870 D.S. ENERGY OF 2539.26 HIGHER THAN COMPUTED ENERGY OF 2539.10

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2568.74	2541.63	0.0	1711.	199.	55.	55.	2535.30	
ELTRD								
2536.50								
0.92	1910.	384.	1449.	76.	0.47	2	254.	
2538.79	0.0	271.	230.	80.	-0.01	0	2537.20	
7.49	0.0	1.42	6.30	0.96	0.0	2539.26	2536.40	
0.004705	0.052	0.110	0.050	0.120	0.0	-0.00	102.80	
	2531.30	12.	12.	12.	165.	99.	367.26	38.

*SECNO .920

3265 DIVIDED FLOW

0.92	1910.	521.	1276.	113.	0.48	0	256.	
2538.84	0.0	277.	191.	82.	0.00	0	2537.20	
6.24	0.0	1.88	6.68	1.38	0.05	2539.31	2536.40	
0.005388	0.052	0.090	0.045	0.090	0.00	-0.00	102.66	
	2532.60	10.	10.	10.	165.	99.	367.37	38.

*SECNO 1.250

AYLES CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.25	1795.	612.	1176.	8.	0.75	13	355.	
2560.18	2560.18	312.	138.	10.	0.27	8	2559.50	
6.58	0.0	1.96	8.49	0.77	12.23	2560.93	2559.90	
0.009482	0.050	0.080	0.045	0.080	0.14	-0.00	120.47	
	2553.60	1760.	1760.	1760.	306.	49.	475.31	59.

*SECNO 1.280

*** GR CARDS REPEATED

AYLES CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

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3720 CRITICAL DEPTH ASSUMED
     1.28      1785.       634.      1141.        10.       0.68         20       357.
  2566.84   2566.84       331.       140.        12.      -0.08          5    2566.10
     6.64       0.0       1.92       8.14       0.83       1.35    2567.52    2566.50
 0.008567     0.050      0.080      0.045      0.080       0.01      -0.00     117.91
            2560.20       150.       150.       150.       308.        49.     475.38         60.

*SECNO 1.590

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                    100 YR FLOOD           11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.59      1675.         0.      1675.         0.       2.09         14        35.
  2591.06   2591.06          0.       144.         0.       1.41         11    2594.50
     6.26       0.0        0.0      11.60        0.0      21.30    2593.15    2593.70
 0.021089     0.049      0.150      0.045      0.090       0.71      -0.00      61.01
            2584.80      1690.      1690.      1690.        16.        19.      96.15         73.

*SECNO 1.590

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2594.00 ELREA=     2594.00

     1.59      1675.         0.      1675.         0.       1.02          3        40.
  2592.73       0.0          0.       207.         0.      -1.07          0    2594.50
     7.93       0.0        0.0       8.09        0.0       0.48    2593.74    2593.70
 0.007764     0.049      0.150      0.045      0.090       0.11      -0.00      58.11
            2584.80        40.        40.        40.        19.        21.      98.57         73.

SPECIAL BRIDGE

SB    HK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS
     1.25       1.60       3.00        0.0      35.00       0.30     260.00       0.0
   ELCHU      ELCHD
  2584.80    2584.80

*SECNO 1.590

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.=   2592.71 BRIDGE VELOCITY=,       6.10
     CALCULATED CHANNEL AREA=,        275.
    EGPRS      EGLWC         H3      QWEIR        QPR      BAREA      TAREA       ELLC
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 2593.76   2593.77     0.04         0.      1675.      260.       260.   2592.30

   ELTRD
 2594.50


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2594.50 ELREA=     2594.50

    1.59     1675.        0.       1675.        0.      1.00          0       41.
 2592.77      0.0         0.        209.        0.     -0.02          0   2594.50
    7.97      0.0        0.0        8.02       0.0      0.02    2593.77   2593.70
0.007571     0.049      0.150      0.045     0.090      0.0       -0.00     58.03
           2584.80       12.        12.        12.       19.        21.     98.64        73.

*SECNO 1.600

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                    100 YR FLOOD          11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.60     1675.        0.       1675.        0.      1.84         20       43.
 2593.64   2593.64        0.        154.        0.      0.84         19   2594.50
    5.64      0.0        0.0       10.88       0.0      0.12    2595.48   2593.70
0.021226     0.049      0.150      0.045     0.090      0.42      -0.00     56.56
           2588.00       10.        10.        10.       21.        22.     99.84        73.

*SECNO 1.870

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                    100 YR FLOOD          11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.87     1575.       134.      1436.        5.      0.95          4      322.
 2627.54   2627.54       148.       175.       10.     -0.89          8   2627.80
    6.04      0.0       0.91        8.18      0.54     24.46    2628.49   2626.90
0.013556     0.049      0.150      0.050     0.150      0.09      -0.00     27.29
           2621.50      1450.      1450.      1450.      274.        53.    354.13        81.
```

G06

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*SECNO 1.880
   AYLES CREEK                    100 YR FLOOD          11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK EL FV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST        VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      1.88      1575.       331.      1115.       129.      0.94         20       336.
   2632.13   2632.13        294.       121.        81.     -0.01          8   2626.90
      6.53       0.0        1.12       9.22       1.60      0.90    2633.07   2627.20
  0.009464     0.049       0.150      0.050      0.150      0.00        0.0     23.96
              2625.60        80.        80.        80.       272.        64.    359.48        82.


SPECIAL BRIDGE

SB     HK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS
       1.25       1.60       3.00       0.0        21.00      0.01       80.00      0.0
    ELCHU      ELCHD
  2625.60    2625.60

*SECNO 1.880

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

     EGPRS      EGLWC         H3       QWEIR        QPR      BAREA      TAREA       ELLC
   2641.76    2633.07       0.00        904.       671.       80.        80.     2629.40

     ELTRD
   2631.50


      1.88      1575.       620.       787.       168.      0.21          2       347.
   2633.66       0.0        698.       153.       170.     -0.73          0   2626.90
      8.06       0.0        0.89       5.13       0.99      0.81    2633.87   2627.20
  0.002140     0.049       0.150      0.050      0.150      0.0       -0.00     21.57
              2625.60        16.        16.        16.       274.        73.    368.46        82.


*SECNO 1.880
      1.88      1575.       701.       792.        82.      0.07          2       348.
   2633.83       0.0        705.       278.        95.     -0.14          0   2631.90
      8.23       0.0        0.99       2.85       0.86      0.01    2633.90   2631.00
  0.000733     0.049       0.080      0.045      0.080      0.01      -0.00     21.32
              2625.60        10.        10.        10.       280.        68.    369.42        82.


CCHV=   0.100 CEHV=   0.800
*SECNO 1.900

3301 HV CHANGED MORE THAN HVINS
```

H06

1.90	1565.	181.	1383.	1.	0.74	4	206.	
2633.76	2632.92	127.	189.	1.	0.67	14	2632.50	
7.66	0.0	1.43	7.31	0.75	0.06	2634.50	2633.00	
0.009727	0.049	0.100	0.055	0.100	0.53	-0.00	441.42	
	2626.10	35.	35.	35.	183.	23.	647.03	83.

CCHV= 0.100 CEHV= 0.500
*SECNO 1.900

*** GR CARDS REPEATED

1.90	1565.	167.	1397.	1.	0.74	2	207.	
2633.84	0.0	140.	192.	1.	-0.00	0	2632.50	
7.74	0.0	1.19	7.27	0.65	0.08	2634.57	2633.00	
0.006300	0.049	0.100	0.045	0.100	0.00	-0.00	440.63	
	2626.10	10.	10.	10.	184.	23.	647.35	83.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	20.00	0.20	115.00	0.0

ELCHU	ELCHD
2626.10	2626.10

*SECNO 1.900

*** GR CARDS REPEATED

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2638.44	2634.60	0.03	678.	889.	115.	115.	2631.90

ELTRD
2633.60

1.90	1565.	398.	1162.	6.	0.28	2	414.	
2635.05	0.0	373.	240.	8.	-0.46	0	2632.50	
8.95	0.0	1.07	4.85	0.69	0.75	2635.32	2633.00	
0.002089	0.049	0.100	0.045	0.100	0.0	-0.00	239.01	
	2626.10	32.	32.	32.	385.	28.	652.84	83.

*SECNO 1.900

1.90	1565.	398.	1157.	9.	0.34	2	414.	
2635.04	0.0	370.	215.	8.	0.06	0	2632.50	
6.74	0.0	1.08	5.39	1.12	0.03	2635.38	2633.00	
0.003593	0.049	0.130	0.050	0.080	0.03	-0.00	239.16	
	2628.30	10.	10.	10.	385.	28.	652.71	83.

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*SECNO 2.170

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                   100 YR FLOOD        11/11/81
   MILE       Q         QLOB      QCH        QROB      HV        ITRIAL     TOPWID
   ELEV       CRIWS     ALOB      ACH        AROB      DHV       IDC        BANK ELEV
   DEPTH      WSELK     VLOB      VCH        VROB      HL        EG      LEFT/RIGHT
   SLOPE      WTN       XNL       XNCH       XNR       OLOSS     CORAR      SSTA
              ELMIN     XLOBL     XLCH       XLOBR     WSDL      WSDR       ENDST      VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     2.17     1470.        0.     1470.        0.      1.83        20        38.
  2668.25  2668.25         0.      135.        0.      1.49        15   2671.30
     5.65      0.0        0.0     10.86       0.0      9.65   2670.08   2674.40
 0.021356    0.049      0.130     0.045     0.150      0.75     -0.00    131.16
           2662.60      1370.     1370.     1370.       18.       19.    168.83       95.

*SECNO 2.180

*** GR CARDS REPEATED
    AYLES CREEK                   100 YR FLOOD        11/11/81
   MILE       Q         QLOB      QCH        QROB      HV        ITRIAL     TOPWID
   ELEV       CRIWS     ALOB      ACH        AROB      DHV       IDC        BANK ELEV
   DEPTH      WSELK     VLOB      VCH        VROB      HL        EG      LEFT/RIGHT
   SLOPE      WTN       XNL       XNCH       XNR       OLOSS     CORAR      SSTA
              ELMIN     XLOBL     XLCH       XLOBR     WSDL      WSDR       ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     2.18     1470.        0.     1470.        0.      1.82         1        38.
  2669.77  2669.77         0.      136.        0.     -0.01         5   2672.80
     5.67      0.0        0.0     10.81       0.0      1.27   2671.58   2675.90
 0.021127    0.049      0.130     0.045     0.150      0.00     -0.00    131.11
           2664.10        60.       60.       60.       18.       19.    168.85       95.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2668.77 ,NOT   2669.77
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK        XKOR      COFQ      RDLEN      BWC       BWP       BAREA      SS
     1.25       1.60      3.00       0.0      20.00      0.90     105.00     0.0
   ELCHU     ELCHD
  2664.10   2664.10

*SECNO 2.180

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW
```

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2674.64	2672.93	0.0	276.	1187.	105.	105.	2669.60

ELTRD
2671.00

2.18	1470.	0.	1470.	0.	0.52	2	51.	
2672.42	0.0	0.	253.	0.	-1.29	0	2672.80	
8.32	0.0	0.0	5.81	0.0	1.36	2672.94	2675.90	
0.003961	0.049	0.130	0.045	0.150	0.0	-0.00	122.26	
	2664.10	12.	12.	12.	27.	23.	172.81	95.

*SECNO 2.180

*** GR CARDS REPEATED

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.18	1470.	0.	1470.	0.	0.51	2	51.	
2672.49	0.0	0.	257.	0.	-0.01	0	2672.80	
8.39	0.0	0.0	5.73	0.0	0.06	2673.00	2675.90	
0.003813	0.049	0.130	0.045	0.100	0.00	-0.00	122.03	
	2664.10	15.	15.	15.	27.	23.	172.92	95.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.210

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.21	1460.	46.	1313.	101.	1.66	2	71.	
2673.00	2673.00	20.	121.	44.	1.15	14	2670.40	
5.40	0.0	2.32	10.88	2.29	0.27	2674.66	2670.30	
0.022977	0.049	0.150	0.055	0.120	0.92	-0.00	51.95	
	2667.60	35.	35.	35.	25.	46.	122.78	95.

CCHV= 0.100 CEHV= 0.500
*SECNO 2.210

*** GR CARDS REPEATED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2675.00 ELREA= 2675.80

2.21	1460.	0.	1460.	0.	1.21	2	27.

K06

2674.65	0.0	0.	165.	0.	-0.45	0	2670.40	
7.05	0.0	0.0	8.83	0.0	1.16	2675.86	2670.30	
0.009941	0.049	0.150	0.055	0.120	0.05	-0.00	63.00	
	2667.60	80.	80.	80.	14.	14.	90.00	96.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	25.00	0.70	148.00	0.0

ELCHU	ELCHD
2667.60	2667.60

*SECNO 2.210

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2677.07	2675.99	0.20	64.	1394.	148.	148.	2673.70

ELTRD
2675.50

2.21	1460.	82.	1005.	373.	0.23	2	201.	
2676.62	0.0	72.	219.	331.	-0.98	0	2670.40	
9.02	0.0	1.15	4.60	1.13	0.99	2676.85	2670.30	
0.001857	0.049	0.150	0.055	0.120	0.0	-0.00	45.44	
	2667.60	39.	39.	39.	31.	170.	246.44	96.

*SECNO 2.210

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

2.21	1460.	63.	1254.	143.	0.84	2	94.	
2676.38	0.0	37.	158.	102.	0.61	0	2672.40	
6.78	0.0	1.71	7.93	1.40	0.06	2677.22	2672.30	
0.007034	0.049	0.150	0.050	0.150	0.31	-0.00	49.46	
	2669.60	20.	20.	20.	27.	67.	143.29	96.

*SECNO 2.290

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

L06

L06

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.29	1430.	81.	1349.	0.	1.63	20	54.	
2682.79	2682.79	35.	128.	0.	0.78	15	2680.80	
5.29	0.0	2.34	10.52	0.0	4.45	2684.42	2683.00	
0.023713	0.049	0.150	0.050	-0.130	0.39	-0.00	34.97	
	2677.50	380.	380.	380.	37.	17.	89.45	98.

M06

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                                                    THIS RUN EXECUTED 11/11/81   7:48:54

**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************

T1      YANCEY CO NC FEMA STUDY                                          1975
T2      500 YR FLOOD                                                     1980
T3      AYLES CREEK                                                      1985

J1  ICHECK     INQ    NINV    IDIR    STRT  METRIC   HVINS      Q      WSEL    FQ

          0.      5.      0.      0. 0.00884      0.    0.0       0.     0.0     0.0    1990

J2  NPROF   IPLOT   PRFVS   XSECV   XSECH      FN   ALLDC     IBW   CHNIM ITRACE

         15.     0.     -1.     0.      0.    0.0     0.0      0.      0.      0.    1995
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*PROF 4

CCHV=   0.100 CEHV=   0.500
*SECNO .030
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

    AYLES CREEK                          500 YR FLOOD        11/11/81
   MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV        CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH       WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE       WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

     0.03      3425.       166.      2969.       290.       1.61          0        97.
  2457.51        0.0        62.       274.        81.       0.50          0    2455.50
    10.51        0.0       2.70      10.85       3.59       0.0     2459.12    2455.20
 0.008866        0.0      0.070      0.045      0.070       0.0       -0.00     558.35
             2447.00         0.         0.         0.        71.         46.    675.00          0.

*SECNO .030

*** GR CARDS REPEATED

3265 DIVIDED FLOW

     0.03      3425.       245.      2816.       364.       1.18          3        98.
  2458.27        0.0        89.       296.       104.      -0.43          0    2455.50
    11.27        0.0       2.76       9.50       3.48       0.29    2459.45    2455.20
 0.006111      0.044      0.070      0.045      0.070       0.04      -0.00     557.24
             2447.00        40.        40.        40.        72.        46.    675.00          0.


SPECIAL BRIDGE

SB    HK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA        SS
     1.25        1.60       3.00        0.0       24.00       0.90      150.00       0.0
   ELCHU      ELCHD
  2447.00    2447.00

*SECNO .030

*** GR CARDS REPEATED

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

    EGPRS      EGLWC         H3      QWEIR        QPR      BAREA      TAREA       ELLC
  2471.22    2459.64       0.19      2294.      1134.       150.       150.    2453.50

    ELTRD
  2455.40

     0.03      3425.       285.      2742.       398.       1.01          3        98.
```

2458.68	0.0	104.	309.	117.	-0.17	0	2455.50	
11.68	0.0	2.73	8.88	3.40	0.24	2459.69	2455.20	
0.005055	0.044	0.070	0.045	0.070	0.0	-0.00	556.64	
	2447.00	32.	32.	32.	72.	46.	675.00	1.

*SECNO .030

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.03	3425.	306.	1965.	1154.	0.48	3	172.	
2459.30	0.0	128.	283.	390.	-0.53	0	2455.50	
10.90	0.0	2.40	6.95	2.96	0.04	2459.78	2455.20	
0.003158	0.043	0.070	0.045	0.070	0.05	-0.00	555.75	
	2448.40	10.	10.	10.	73.	118.	747.49	1.

*SECNO .080
AYLES CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.08	3395.	812.	1746.	837.	0.39	2	309.	
2460.03	0.0	464.	262.	329.	-0.09	0	2456.20	
8.33	0.0	1.75	6.65	2.54	0.63	2460.42	2454.70	
0.003103	0.044	0.100	0.045	0.070	0.01	-0.00	202.95	
	2451.70	200.	200.	200.	179.	130.	512.09	5.

*SECNO .080

0.08	3395.	850.	1672.	873.	0.32	2	312.	
2460.33	0.0	512.	273.	363.	-0.07	0	2456.20	
8.63	0.0	1.66	6.12	2.41	0.22	2460.65	2454.70	
0.002491	0.044	0.100	0.045	0.070	0.01	-0.00	201.34	
	2451.70	80.	80.	80.	181.	131.	512.97	7.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	17.00	0.30	90.00	0.0
ELCHU	ELCHD							
2451.70	2451.70							

*SECNO .080

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPKS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2495.68	2460.66	0.01	2878.	523.	90.	90.	2457.10

ELTRD

2457.70

0.08	3395.	916.	1543.	935.	0.22	2	317.	
2460.94	0.0	614.	295.	433.	-0.10	0	2456.20	
9.24	0.0	1.49	5.23	2.16	0.52	2461.16	2454.70	
0.001636	0.044	0.100	0.045	0.070	0.0	-0.00	197.99	
	2451.70	10.	10.	10.	184.	133.	514.80	8.

*SECNO .080

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.08	3395.	521.	2471.	403.	1.40	20	290.	
2461.23	2461.23	291.	223.	212.	1.18	16	2458.50	
7.23	0.0	1.79	11.09	1.90	0.07	2462.63	2457.00	
0.010706	0.044	0.140	0.045	0.140	0.59	-0.00	211.80	
	2454.00	20.	20.	20.	170.	119.	501.31	8.

CCHV= 0.100 CEHV= 0.800
*SECNO .150

3301 HV CHANGED MORE THAN HVINS

0.15	3350.	917.	1967.	466.	0.74	3	311.	
2465.09	0.0	351.	226.	144.	-0.66	0	2461.80	
7.89	0.0	2.61	8.71	3.23	3.13	2465.83	2461.60	
0.010196	0.049	0.090	0.055	0.090	0.07	-0.00	289.22	
	2457.20	300.	300.	300.	235.	76.	600.33	13.

CCHV= 0.100 CEHV= 0.500
*SECNO .160

*** GR CARDS REPEATED

AYLES CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

0.16	3350.	891.	1998.	460.	0.80	1	305.	
2465.70	0.0	333.	223.	140.	0.05	0	2462.50	
7.80	0.0	2.67	8.98	3.30	0.64	2466.50	2462.30	
0.011023	0.049	0.090	0.055	0.090	0.03	-0.00	294.50	
	2457.90	60.	60.	60.	229.	76.	599.89	14.

```
SPECIAL BRIDGE

SB      HK          XKOR        COFQ        RDLEN       BWC         BWP         BAREA       SS
        1.25        1.60        3.00        0.0         22.00       0.30        100.00      0.0
     ELCHU       ELCHD
   2457.90     2457.90

*SECNO .160

*** GR CARDS REPEATED

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

      EGPRS       EGLWC          H3       QWEIR         QPR       BAREA       TAREA        ELLC
    2493.58     2466.54        0.05        2733.         618.        100.        100.     2462.50

      ELTRD
    2463.80


       0.16        3350.        996.        1873.        482.        0.59           3        336.
    2466.05         0.0        410.         236.        160.       -0.20           0     2462.50
       8.15         0.0        2.43         7.94        3.01        0.15     2466.65     2462.30
   0.007985       0.049       0.090       0.055       0.090         0.0       -0.00      272.14
               2457.90          31.          31.         31.         252.         86.      610.47        14.


*SECNO .160

3265 DIVIDED FLOW

       0.16        3350.        834.        2069.        447.        0.79           2        337.
    2466.06         0.0        413.         233.        161.        0.20           0     2462.50
       8.16         0.0        2.02         8.89        2.78        0.11     2466.85     2462.30
   0.006821       0.049       0.100       0.045       0.090        0.10       -0.00      271.57
               2457.90          15.          15.         15.         252.         86.      610.49        15.


CCHV=   0.100 CEHV=   0.800
*SECNO .260

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                    500 YR FLOOD          11/11/81
    MILE        Q           QLOB        QCH         QROB        HV          ITRIAL      TOPWID
    ELEV        CRIWS       ALOB        ACH         AROB        DHV         IDC         BANK ELEV
    DEPTH       WSELK       VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
    SLOPE       WTN         XNL         XNCH        XNR         OLOSS       CORAR       SSTA
                ELMIN       XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
       0.26        3290.        223.        2603.        464.        2.24           3         92.
    2472.92     2472.92          53.         195.        129.        1.45          15     2468.40
       6.92         0.0        4.21        13.36        3.59        5.19     2475.16     2467.40
   0.018385       0.049       0.100       0.050       0.130        1.16       -0.00       41.03
```

	2466.00	495.	495.	495.	35.	57.	133.09	21.

*SECNO .270

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.27	3290.	273.	2483.	534.	1.39	4	100.	
2474.37	0.0	76.	232.	180.	-0.85	0	2468.70	
8.07	0.0	3.58	10.72	2.97	0.51	2475.76	2467.70	
0.009394	0.049	0.100	0.050	0.130	0.09	-0.00	38.77	
	2466.30	40.	40.	40.	37.	63.	138.57	22.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.00	0.10	115.00	0.0

ELCHU	ELCHD
2466.30	2466.30

*SECNO .270

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST

VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2494.70	2475.79	0.04	2154.	1138.	115.	115.	2471.80

ELTRD
2472.20

0.27	3290.	327.	2344.	619.	0.78	3	112.	
2476.02	0.0	114.	285.	264.	-0.61	0	2468.70	
9.72	0.0	2.87	8.24	2.35	1.05	2476.80	2467.70	
0.004214	0.049	0.100	0.050	0.130	0.0	-0.00	35.52	
	2466.30	10.	10.	10.	40.	81.	156.93	22.

*SECNO .280

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			500 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.28	3290.	170.	2662.	458.	2.33	20	93.	
2476.99	2476.99	54.	197.	132.	1.55	19	2472.40	
6.99	0.0	3.14	13.51	3.47	0.08	2479.31	2471.40	
0.022407	0.049	0.150	0.055	0.150	1.24	-0.00	40.90	
	2470.00	10.	10.	10.	35.	57.	133.42	22.

*SECNO .420

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			500 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.42	3205.	18.	2339.	848.	1.82	5	151.	
2494.66	2494.66	16.	186.	281.	-0.50	8	2493.50	
7.36	0.0	1.11	12.56	3.01	15.86	2496.49	2491.20	
0.019952	0.050	0.150	0.050	0.150	0.05	-0.00	135.42	
	2487.30	750.	750.	750.	42.	109.	286.07	30.

*SECNO .430

*** GR CARDS REPEATED

AYLES CREEK			500 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.43	3205.	24.	2311.	870.	1.66	2	151.	
2496.84	2496.84	20.	192.	297.	-0.17	5	2495.50	
7.54	0.0	1.19	12.03	2.93	1.12	2498.49	2493.20	
0.017581	0.050	0.150	0.050	0.150	0.02	-0.00	135.04	
	2489.30	60.	60.	60.	42.	109.	286.40	30.

SPECIAL BRIDGE

```
SB     HK         XKOR       COFQ      RDLEN       BWC        BWP      BAREA        SS
     1.25         1.60       3.00      0.0        20.00       0.01    108.00       0.0
   ELCHU       ELCHD
  2489.30     2489.30

*SECNO .430

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

    EGPRS      EGLWC         H3      QWEIR        QPR      BAREA      TAREA       ELLC
  2518.72    2498.50       0.01      2142.      1076.       108.       108.    2494.70

    ELTRD
  2495.20


     0.43      3205.        92.      2093.      1020.       0.73          3       159.
  2498.57        0.0        67.       251.       461.      -0.93          0    2495.50
     9.27        0.0       1.38       8.33       2.22       0.81    2499.30    2493.20
 0.005899      0.050      0.150      0.050      0.150        0.0      -0.00     131.21
             2489.30        10.        10.        10.        46.       113.     289.81        30.

*SECNO .430
    AYLES CREEK                          500 YR FLOOD         11/11/81
   MILE      Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV      CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH     WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE     WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
             ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

     0.43      3205.         3.      3090.       112.       0.52          2       148.
  2498.87        0.0         9.       523.        70.      -0.21          0    2498.00
     7.27        0.0       0.39       5.91       1.59       0.07    2499.39    2495.70
 0.004070      0.050      0.150      0.050      0.100       0.02      -0.00     137.04
             2491.60        15.        15.        15.        69.        79.     285.49        31.

CCHV=    0.100 CEHV=    0.800
*SECNO .480

3301 HV CHANGED MORE THAN HVINS

     0.48      3175.         0.      3133.        42.       1.49          2        73.
  2499.69        0.0         0.       318.        19.       0.97          0    2500.30
     7.39        0.0        0.0       9.86       2.18       1.01    2501.18    2497.00
 0.014810      0.050      0.150      0.055      0.100       0.77      -0.00      41.09
             2492.30       145.       145.       145.        29.        44.     114.34        32.

CCHV=    0.100 CEHV=    0.500
*SECNO .480
     0.48      3175.       422.      1952.       801.       1.82          4       119.
  2500.73    2500.45       109.       145.       186.       0.33         12    2492.80
     8.43        0.0       3.88      13.42       4.31       1.21    2502.55    2493.00
```

0.015371	0.050	0.150	0.055	0.100	0.17	-0.00	38.92	
	2492.30	80.	80.	80.	30.	89.	158.39	33.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2500.59 ,NOT 2500.73
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	18.00	0.90	115.00	0.0

ELCHU	ELCHD
2492.30	2492.30

*SECNO .480

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2519.67	2506.86	0.0	1826.	1364.	115.	115.	2499.00

ELTRD
2499.80

0.48	3175.	398.	1515.	1262.	0.47	2	195.	
2503.75	0.0	184.	200.	531.	-1.35	0	2492.80	
11.45	0.0	2.16	7.58	2.37	1.67	2504.22	2493.00	
0.003209	0.050	0.150	0.055	0.100	0.0	-0.00	31.35	
	2492.30	10.	10.	10.	38.	157.	225.97	33.

*SECNO .480

3301 HV CHANGED MORE THAN HVINS

0.48	3175.	0.	3104.	71.	1.16	2	109.	
2503.51	0.0	0.	355.	39.	0.69	0	2503.50	
8.01	0.0	0.0	8.74	1.84	0.11	2504.67	2500.20	
0.010303	0.050	0.150	0.055	0.100	0.35	-0.00	39.96	
	2495.50	20.	20.	20.	30.	79.	149.10	33.

CCHV= 0.100 CEHV= 0.800
*SECNO .570

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

```
      0.57     3120.       50.     3064.        6.      2.16         5       75.
   2509.37  2508.98       32.      258.        4.      1.00        11  2506.80
      7.37      0.0     1.58     11.90     1.26      6.05  2511.53   2507.20
  0.019420    0.051    0.160     0.055    0.160      0.80    -0.00   174.29
              2502.00      440.      440.      440.      49.      26.   249.11        37.


CCHV=   0.100 CEHV=   0.500
*SECNO .580

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2511.40 ELREA=     2511.50

      0.58     3120.        0.     3120.        0.      1.43         3       44.
   2511.21      0.0        0.      325.        0.     -0.73         0  2507.10
      8.91      0.0       0.0      9.60       0.0      1.04  2512.64   2507.50
  0.009264    0.051    0.160     0.055    0.160      0.07    -0.00   201.00
              2502.30       80.       80.       80.      22.      22.   245.00        37.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2509.87 ,NOT   2511.21
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK        XKOR       COFQ      RDLEN       BWC       BWP     BAREA       SS
       1.25      1.60       3.00        0.0     10.00      3.10    155.00     1.78
    ELCHU     ELCHD
  2502.30   2502.30

*SECNO .580

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

     EGPRS     EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
   2521.27   2515.33       0.0      1334.     1788.      155.      155.   2509.90

     ELTRD
   2511.90


      0.58     3120.       321.     2762.       37.      0.53         2       120.
   2513.98      0.0        254.      448.       40.     -0.90         0  2507.10
     11.68      0.0        1.27      6.17      0.94      1.88  2514.51   2507.50
  0.002501    0.051    0.160     0.055    0.160      0.0     -0.00   137.37
              2502.30       10.       10.       10.      86.      34.   257.29        38.


*SECNO .580

*** GR CARDS REPEATED
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3301 HV CHANGED MORE THAN HVINS

      0.58     3120.       99.     3010.       11.      1.53         2       97.
   2513.58      0.0        65.      298.        9.      1.01         0   2510.10
      8.28      0.0       1.52     10.11      1.23      0.09   2515.11   2510.50
  0.011551     0.051     0.160     0.055     0.160      0.50     -0.00    154.34
             2505.30       20.       20.       20.       69.       28.    250.84        38.

CCHV=   0.100 CEHV=   0.800
*SECNO .690
    AYLES CREEK                     500 YR FLOOD       11/11/81
   MILE      Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV      CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
   DEPTH     WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
   SLOPE     WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
             ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      0.69     3055.      665.     2360.       31.      1.94         5      132.
   2522.06   2522.06      239.      187.       14.      0.41         8   2519.40
      8.96      0.0       2.78     12.63      2.19      8.51   2524.00   2517.50
  0.021945     0.052     0.150     0.060     0.150      0.33     -0.00    150.18
             2513.10      550.      550.      550.      113.       19.    282.13        43.


*SECNO .700
    AYLES CREEK                     500 YR FLOOD       11/11/81
   MILE      Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
   ELEV      CRIWS     ALOB      ACH       A! OB     DHV       IDC       BANK ELEV
   DEPTH     WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
   SLOPE     WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
             ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      0.70     3055.      739.     2290.       26.      1.96         2      128.
   2524.21   2524.21      247.      178.       12.      0.02        11   2521.90
      8.61      0.0       2.99     12.87      2.19      0.92   2526.18   2520.00
  0.024347     0.052     0.150     0.060     0.150      0.02     -0.00    154.16
             2515.60       40.       40.       40.      109.       19.    281.66        43.


SPECIAL BRIDGE

SB    HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA       SS
      1.25      1.60      3.00      0.0       6.00      0.01     45.00      0.0
   ELCHU     ELCHD
   2515.60   2515.60

*SECNO .700

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2526.18 HIGHER THAN COMPUTED ENERGY OF 2526.04
PRESSURE AND WEIR FLOW

    EGPRS     EGLWC       H3     QWEIR       QPR     BAREA     TAREA      ELLC
```

2526.04	2525.90	0.00	2671.	386.	45.	45.	2523.10	

ELTRD
2520.10

0.70	3055.	772.	2255.	28.	1.78	5	130.	
2524.40	0.0	265.	183.	13.	-0.19	0	2521.90	
8.80	0.0	2.91	12.33	2.12	0.0	2526.18	2520.00	
0.021534	0.052	0.150	0.060	0.150	0.0	-0.00	151.80	
	2515.60	30.	30.	30.	111.	19.	281.92	44.

*SECNO .720

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.72	3045.	89.	2865.	90.	2.56	2	79.	
2525.27	2525.27	41.	217.	43.	0.78	5	2523.50	
8.67	0.0	2.16	13.22	2.09	0.71	2527.82	2522.70	
0.014695	0.052	0.130	0.045	0.130	0.62	-0.00	66.35	
	2516.60	40.	40.	40.	39.	40.	144.85	44.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.10	55.00	0.0

ELCHU	ELCHD
2516.60	2516.60

*SECNO .720

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2601.42	2527.98	0.15	2484.	562.	55.	55.	2520.30

ELTRD
2522.10

0.72	3045.	113.	2815.	116.	2.12	5	80.	
2525.75	0.0	53.	232.	55.	-0.44	0	2523.50	
9.15	0.0	2.16	12.13	2.12	0.04	2527.86	2522.70	
0.011287	0.052	0.130	0.045	0.130	0.0	-0.00	65.31	
	2516.60	10.	10.	10.	40.	40.	145.39	44.

```
*SECNO .720
     0.72    3045.      132.     2796.      117.      2.32         4       80.
  2525.83  2525.64       54.      220.       57.      0.20        15   2523.50
     7.63      0.0      2.42     12.73      2.06      0.12   2528.15   2522.70
 0.013642    0.052     0.130     0.045     0.150      0.16     -0.00     65.14
           2518.20       10.       10.       10.       40.       40.    145.48        44.

CCHV=   0.100 CEHV=    0.800
*SECNO .800

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                  500 YR FLOOD         11/11/81
   MILE      Q         QLOB      QCH       QROB       HV        ITRIAL    TOPWID
   ELEV      CRIWS     ALOB      ACH       AROB       DHV       IDC        BANK ELEV
   DEPTH     WSELK     VLOB      VCH       VROB       HL        EG      LEFT/RIGHT
   SLOPE     WTN       XNL       XNCH      XNR        OLOSS     CORAR      SSTA
             ELMIN     XLOBL     XLCH      XLOBR      WSDL      WSDR       ENDST       VOL

     0.80    2995.       99.     2892.        4.      1.43         2       90.
  2532.72      0.0       67.      297.        4.     -0.89         0   2530.20
     9.22      0.0      1.48      9.75      1.00      5.91   2534.14   2530.50
 0.010705    0.053     0.150     0.055     0.150      0.09     -0.00     48.37
           2523.50      490.      490.      490.       66.       25.    138.81        48.

CCHV=   0.100 CEHV=    0.500
*SECNO .810

3301 HV CHANGED MORE THAN HVINS

     0.81    2995.      256.     2724.       16.      0.70         2      113.
  2533.88      0.0      184.      388.       16.     -0.73         0   2529.20
    11.38      0.0      1.39      7.03      0.95      0.36   2534.58   2529.50
 0.003900    0.053     0.150     0.055     0.150      0.07     -0.00     29.05
           2522.50       60.       60.       60.       85.       29.    142.52        49.


SPECIAL BRIDGE

SB    HK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA      SS
     1.25      1.60      3.00       0.0     10.00      0.30     60.00      0.0
   ELCHU     ELCHD
  2522.50  2522.50

*SECNO .810

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

    EGPRS    EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
  2595.78  2534.64      0.07     2463.      546.       60.       60.   2528.70

    ELTRD
  2531.80


     0.81    2995.      365.     2603.       26.      0.44         2      131.
```

2535.49	0.0	299.	455.	31.	-0.26	0	2529.20	
12.99	0.0	1.22	5.72	0.85	1.36	2535.94	2529.50	
0.002082	0.053	0.150	0.055	0.150	0.0	-0.00	14.63	
	2522.50	10.	10.	10.	99.	31.	145.30	49.

*SECNO .810

0.81	2995.	213.	2768.	14.	0.90	2	104.	
2535.31	0.0	132.	351.	11.	0.45	0	2531.50	
10.51	0.0	1.62	7.89	1.34	0.04	2536.20	2531.80	
0.003753	0.053	0.110	0.045	0.090	0.23	-0.00	36.84	
	2524.80	15.	15.	15.	77.	27.	141.03	49.

CCHV= 0.100 CEHV= 0.80

*SECNO .910

AYLES CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.91	2935.	556.	2273.	107.	1.24	4	247.	
2538.66	2538.66	252.	225.	71.	0.35	16	2537.20	
7.36	0.0	2.20	10.11	1.50	2.58	2539.91	2536.40	
0.012497	0.052	0.110	0.050	0.120	0.28	-0.00	103.26	
	2531.30	415.	415.	415.	165.	83.	350.66	54.

CCHV= 0.100 CEHV= 0.500

*SECNO .920

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.92	2935.	780.	1944.	211.	0.56	3	272.	
2539.72	0.0	406.	267.	152.	-0.68	0	2537.20	
8.42	0.0	1.92	7.29	1.39	0.31	2540.28	2536.40	
0.005170	0.052	0.110	0.050	0.120	0.07	-0.00	97.40	
	2531.30	40.	40.	40.	171.	102.	369.76	55.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	14.00	0.30	55.00	0.0
ELCHU	ELCHD							
2531.30	2531.30							

*SECNO .920

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2540.28 HIGHER THAN COMPUTED ENERGY OF 2540.08
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2610.47	2540.32	0.04	2726.	209.	55.	55.	2535.30	
ELTRD								
2536.50								
0.92	2935.	782.	1941.	212.	0.56	3	273.	
2539.72	0.0	408.	267.	153.	-0.00	0	2537.20	
8.42	0.0	1.92	7.26	1.39	0.0	2540.28	2536.40	
0.005122	0.052	0.110	0.050	0.120	0.0	-0.00	97.12	
	2531.30	12.	12.	12.	171.	102.	369.79	55.

*SECNO .920

0.92	2935.	951.	1639.	305.	0.46	2	277.	
2539.88	0.0	432.	233.	166.	-0.10	0	2537.20	
7.28	0.0	2.30	7.04	1.84	0.05	2540.34	2536.40	
0.004597	0.052	0.090	0.045	0.090	0.01	-0.00	93.48	
	2532.60	10.	10.	10.	175.	102.	370.22	55.

*SECNO 1.250

AYLES CREEK			500 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.25	2750.	1262.	1435.	52.	0.74	20	381.	
2560.78	2560.78	498.	156.	31.	0.27	6	2559.50	
7.19	0.0	2.54	9.23	1.67	11.17	2561.52	2559.90	
0.009596	0.050	0.080	0.045	0.080	0.14	-0.00	95.12	
	2553.60	1760.	1760.	1760.	331.	50.	476.00	86.

*SECNO 1.280

*** GR CARDS REPEATED

AYLES CREEK			500 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.28	2735.	1237.	1449.	49.	0.77	20	379.	
2567.34	2567.34	484.	154.	30.	0.03	6	2566.10	
7.14	0.0	2.56	9.39	1.65	1.47	2568.11	2566.50	
0.010039	0.050	0.080	0.045	0.080	0.02	-0.00	96.93	
	2560.20	150.	150.	150.	329.	50.	475.95	88.

*SECNO 1.590

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.59	2565.	0.	2565.	0.	2.55	15	40.	
2592.55	2592.55	0.	200.	0.	1.78	8	2594.50	
7.75	0.0	0.0	12.81	0.0	22.97	2595.10	2593.70	
0.019950	0.049	0.150	0.045	0.090	0.89	-0.00	58.41	
	2584.80	1690.	1690.	1690.	19.	21.	98.32	105.

*SECNO 1.590

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

1.59	2565.	0.	2560.	5.	1.31	4	67.	
2594.39	0.0	0.	279.	8.	-1.24	0	2594.50	
9.59	0.0	0.0	9.19	0.72	0.47	2595.70	2593.70	
0.007788	0.049	0.150	0.045	0.090	0.12	-0.00	55.20	
	2584.80	40.	40.	40.	22.	44.	121.93	105.

SPECIAL BRIDGE

SB	HK	XHOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.00	3.00	0.0	35.00	0.30	260.00	0.0

ELCHU	ELCHD
2584.80	2584.80

*SECNO 1.590

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2596.80	2595.74	0.06	504.	2050.	260.	260.	2592.30

ELTRD
2594.50

1.59	2565.	0.	2548.	17.	1.14	3	81.	
2594.79	0.0	0.	297.	19.	-0.17	0	2594.50	
9.99	0.0	0.01	8.58	0.88	0.24	2595.93	2593.70	
0.006273	0.049	0.150	0.045	0.090	0.0	-0.00	54.41	
	2584.80	12.	12.	12.	23.	58.	135.01	105.

*SECNO 1.600

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			500 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.60	2565.	0.	2521.	44.	2.10	20	88.	
2595.01	2595.01	0.	215.	27.	0.96	19	2594.50	
7.01	0.0	0.48	11.73	1.61	0.10	2597.11	2593.70	
0.016747	0.049	0.150	0.045	0.090	0.48	-0.00	53.98	
	2588.00	10.	10.	10.	24.	64.	141.78	105.

*SECNO 1.870

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			500 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.87	2405.	496.	1864.	44.	0.92	14	338.	
2628.37	2628.37	357.	214.	39.	-1.18	6	2627.80	
6.87	0.0	1.39	8.73	1.14	20.52	2629.29	2626.90	
0.011999	0.049	0.150	0.050	0.150	0.12	-0.00	23.43	
	2621.50	1450.	1450.	1450.	278.	60.	361.48	119.

*SECNO 1.880

AYLES CREEK			500 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.88	2405.	729.	1449.	227.	1.10	20	340.

2632.77	2632.77	462.	134.	116.	0.18	8	2626.90	
7.17	0.0	1.58	10.78	1.95	0.93	2633.87	2627.20	
0.011231	0.049	0.150	0.050	0.150	0.09	-0.00	22.96	
	2625.60	80.	80.	80.	273.	68.	363.23	121.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.00	0.01	80.00	0.0

ELCHU	ELCHD
2625.60	2625.60

*SECNO 1.880

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2655.22	2633.87	0.00	1718.	688.	80.	80.	2629.40

ELTRD
2631.50

1.88	2405.	1052.	1079.	274.	0.30	2	352.	
2634.30	0.0	867.	167.	211.	-0.80	0	2626.90	
8.70	0.0	1.21	6.47	1.30	0.73	2634.60	2627.20	
0.003040	0.049	0.150	0.050	0.150	0.0	-0.00	20.58	
	2625.60	16.	16.	16.	275.	77.	372.19	121.

*SECNO 1.880

1.88	2405.	1170.	1088.	148.	0.10	2	353.	
2634.54	0.0	889.	310.	129.	-0.20	0	2631.90	
8.94	0.0	1.32	3.51	1.15	0.02	2634.64	2631.00	
0.000952	0.049	0.080	0.045	0.080	0.02	-0.00	20.21	
	2625.60	10.	10.	10.	281.	73.	373.57	121.

CCHV= 0.100 CEHV= 0.800
*SECNO 1.900

3301 HV CHANGED MORE THAN HVINS

1.90	2395.	523.	1866.	5.	0.91	2	230.	
2634.46	0.0	251.	216.	4.	0.81	0	2632.50	
8.36	0.0	2.09	8.62	1.25	0.08	2635.37	2633.00	
0.011295	0.049	0.100	0.055	0.100	0.65	-0.00	419.35	
	2626.10	35.	35.	35.	205.	25.	649.83	122.

CCHV= 0.100 CEHV= 0.500
*SECNO 1.900

*** GR CARDS REPEATED

1.90	2395.	464.	1926.	5.	0.98	0	232.	
2634.52	0.0	262.	219.	5.	0.06	0	2632.50	
8.42	0.0	1.77	8.81	1.07	0.09	2635.50	2633.00	
0.007773	0.049	0.100	0.045	0.100	0.03	-0.00	418.32	
	2626.10	10.	10.	10.	206.	26.	650.07	122.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	20.00	0.20	115.00	0.0

ELCHU	ELCHD
2626.10	2626.10

*SECNO 1.900

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2645.29	2635.54	0.04	1486.	922.	115.	115.	2631.90

ELTRD
2633.60

1.90	2395.	826.	1552.	17.	0.35	2	440.	
2635.77	0.0	643.	268.	19.	-0.63	0	2632.50	
9.67	0.0	1.28	5.79	0.91	0.62	2636.11	2633.00	
0.002569	0.049	0.100	0.045	0.100	0.0	-0.00	224.82	
	2626.10	32.	32.	32.	400.	40.	664.86	123.

*SECNO 1.900

1.90	2395.	813.	1554.	28.	0.42	2	440.	
2635.76	0.0	638.	243.	19.	0.08	0	2632.50	
7.46	0.0	1.27	6.40	1.46	0.03	2636.18	2633.00	
0.004301	0.049	0.130	0.050	0.080	0.04	-0.00	225.08	
	2628.30	10.	10.	10.	399.	40.	664.64	123.

*SECNO 2.170

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT

SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.17	2240.	0.	2240.	0.	2.18	20	44.	
2669.56	2669.56	0.	189.	0.	1.76	11	2671.30	
6.96	0.0	0.0	11.86	0.0	10.77	2671.74	2674.40	
0.020189	0.049	0.130	0.045	0.150	0.88	-0.00	126.79	
	2662.60	1370.	1370.	1370.	23.	21.	170.79	140.

*SECNO 2.180

*** GR CARDS REPEATED

AYLES CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.18	2240.	0.	2240.	0.	2.18	2	44.	
2671.07	2671.07	0.	189.	0.	-0.00	5	2672.80	
6.97	0.0	0.0	11.85	0.0	1.21	2673.25	2675.90	
0.020148	0.049	0.130	0.045	0.150	0.00	-0.00	126.78	
	2664.10	60.	60.	60.	23.	21.	170.79	140.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2670.28 ,NOT 2671.07
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	20.00	0.90	105.00	0.0

ELCHU	ELCHD
2664.10	2664.10

*SECNO 2.180

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2682.37	2675.56	0.0	1107.	1147.	105.	105.	2669.60

ELTRD
2671.00

2.18	2240.	17.	2223.	0.	0.91	3	173.
2673.12	0.0	39.	290.	0.	-1.27	0	2672.80

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       9.02      0.0       0.42      7.67      0.0       0.78    2674.03   2675.90
   0.006150      0.049     0.130     0.045     0.150     0.0       -0.00      1.00
              2664.10       12.       12.       12.      149.        24.    173.86       140.

 *SECNO 2.180

 *** GR CARDS REPEATED
     AYLES CREEK                         500 YR FLOOD        11/11/81
    MILE         Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
    ELEV         CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
    DEPTH        WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
    SLOPE        WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
                 ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST       VOL

       2.18     2240.       30.     2210.        0.      0.84         2      173.
    2673.28      0.0        58.      298.        0.     -0.07         0   2672.80
       9.18      0.0       0.52      7.41      0.0       0.09    2674.12   2675.90
   0.005563      0.049     0.130     0.045     0.100     0.01      -0.00      1.00
              2664.10       15.       15.       15.      149.        25.    174.10       140.

 CCHV=   0.100 CEHV=   0.800
 *SECNO 2.210

 3301 HV CHANGED MORE THAN HVINS

     AYLES CREEK                         500 YR FLOOD        11/11/81
    MILE         Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
    ELEV         CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
    DEPTH        WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
    SLOPE        WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
                 ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST       VOL

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
       2.21     2225.      100.     1849.      276.      1.85         2       91.
    2674.28   2674.28       35.      155.       97.      1.01        19   2670.40
       6.68      0.0       2.81     11.90      2.85      0.33    2676.13   2670.30
   0.019594      0.049     0.150     0.055     0.120     0.81      -0.00     49.64
              2667.60       35.       35.       35.       27.        65.    141.14       141.

 CCHV=   0.100 CEHV=   0.500
 *SECNO 2.210

 *** GR CARDS REPEATED

 3301 HV CHANGED MORE THAN HVINS

       2.21     2225.      124.     1569.      532.      0.62         2      188.
    2676.35      0.0        67.      211.      291.     -1.23         0   2670.40
       8.75      0.0       1.85      7.42      1.83      0.71    2676.97   2670.30
   0.005057      0.049     0.150     0.055     0.120     0.12      -0.00     45.92
              2667.60       80.       80.       80.       31.       157.    233.51       142.


 SPECIAL BRIDGE
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SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	25.00	0.70	148.00	0.0

ELCHU	ELCHD
2667.60	2667.60

*SECNO 2.210

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2681.96	2677.03	0.06	854.	1374.	148.	148.	2673.70

ELTRD
2675.50

2.21	2225.	126.	1276.	822.	0.22	2	304.	
2678.27	0.0	103.	263.	691.	-0.40	0	2670.40	
10.67	0.0	1.22	4.85	1.19	1.52	2678.49	2670.30	
0.001614	0.049	0.150	0.055	0.120	0.0	-0.00	42.48	
	2667.60	39.	39.	39.	34.	270.	346.16	142.

*SECNO 2.210

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

2.21	2225.	118.	1731.	376.	0.90	2	169.	
2677.98	0.0	61.	201.	242.	0.68	0	2672.40	
8.38	0.0	1.94	8.59	1.55	0.06	2678.89	2672.30	
0.005976	0.049	0.150	0.050	0.150	0.34	-0.00	46.58	
	2669.60	20.	20.	20.	30.	139.	215.60	143.

*SECNO 2.290

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 500 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.29	2180.	165.	2014.	1.	2.12	20	60.	
2683.85	2683.85	56.	166.	1.	1.22	19	2680.80	
6.35	0.0	2.94	12.12	0.93	3.94	2685.97	2683.00	
0.022712	0.049	0.150	0.050	0.130	0.61	-0.00	32.53	
	2677.50	380.	380.	380.	39.	20.	92.07	146.

THIS RUN EXECUTED 11/11/81 7:48:57

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST/

AYLES CREEK

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	0.030	0.	0.0	0.0	2447.0	1045.0	2453.05	0.0	2453.92	88.35	7.48	139.72	111.18
	0.030	0.	0.0	0.0	2447.0	1805.0	2455.13	0.0	2456.36	88.11	8.90	209.23	192.29
	0.030	0.	0.0	0.0	2447.0	2220.0	2455.91	2453.90	2457.28	88.49	9.54	263.49	235.99
	0.030	0.	0.0	0.0	2447.0	3425.0	2457.51	0.0	2459.12	88.66	10.85	415.94	363.75
	0.030	40.	0.0	0.0	2447.0	1045.0	2453.52	0.0	2454.24	66.17	6.79	153.91	128.46
	0.030	40.	0.0	0.0	2447.0	1805.0	2455.69	0.0	2456.68	65.89	8.07	246.32	222.36
	0.030	40.	0.0	0.0	2447.0	2220.0	2456.61	0.0	2457.61	59.85	8.33	330.33	286.97
	0.030	40.	0.0	0.0	2447.0	3425.0	2458.27	0.0	2459.45	61.11	9.50	489.69	438.12
	0.030	32.	2455.4	2453.5	2447.0	1045.0	2454.16	0.0	2454.73	46.53	6.03	173.34	153.19
	0.030	32.	2455.4	2453.5	2447.0	1805.0	2456.56	0.0	2457.24	40.96	6.85	324.34	282.05
	0.030	32.	2455.4	2453.5	2447.0	2220.0	2457.27	0.0	2458.02	42.07	7.35	393.17	342.26
	0.030	32.	2455.4	2453.5	2447.0	3425.0	2458.68	0.0	2459.69	50.55	8.88	530.17	481.72
	0.030	10.	0.0	0.0	2448.4	1045.0	2453.96	0.0	2455.08	131.00	8.51	122.73	91.30
	0.030	10.	0.0	0.0	2448.4	1805.0	2456.55	0.0	2457.34	60.55	7.65	344.19	231.96
	0.030	10.	0.0	0.0	2448.4	2220.0	2457.50	0.0	2458.08	43.05	7.04	498.71	338.33
	0.030	10.	0.0	0.0	2448.4	3425.0	2459.30	0.0	2459.78	31.58	6.95	800.79	609.43
	0.080	200.	0.0	0.0	2451.7	1035.0	2456.49	2455.69	2457.31	93.60	7.41	160.55	106.98
	0.080	200.	0.0	0.0	2451.7	1790.0	2457.90	0.0	2458.55	59.25	7.31	446.44	232.55
	0.080	200.	0.0	0.0	2451.7	2200.0	2458.44	0.0	2459.02	51.43	7.27	587.61	306.76
	0.080	200.	0.0	0.0	2451.7	3395.0	2460.03	0.0	2460.42	31.03	6.65	1055.86	609.49
	0.080	80.	0.0	0.0	2451.7	1035.0	2457.43	0.0	2457.78	33.86	5.18	327.62	177.86
	0.080	80.	0.0	0.0	2451.7	1790.0	2458.57	0.0	2458.90	30.01	5.64	623.17	326.77
	0.080	80.	0.0	0.0	2451.7	2200.0	2459.00	0.0	2459.35	30.28	5.94	746.76	399.83
	0.080	80.	0.0	0.0	2451.7	3395.0	2460.33	0.0	2460.65	24.91	6.12	1148.13	680.29
	0.080	10.	2457.7	2457.1	2451.7	1035.0	2459.14	0.0	2459.21	5.96	2.67	785.91	424.11
*	0.080	10.	2457.7	2457.1	2451.7	1790.0	2459.94	0.0	2460.05	9.24	3.60	1028.01	589.00
*	0.080	10.	2457.7	2457.1	2451.7	2200.0	2460.20	0.0	2460.35	11.42	4.10	1110.62	651.10
	0.080	10.	2457.7	2457.1	2451.7	3395.0	2460.94	0.0	2461.16	16.36	5.23	1341.95	839.46
	0.080	20.	0.0	0.0	2454.0	1035.0	2458.76	2457.97	2459.64	98.21	7.57	158.94	104.44
*	0.080	20.	0.0	0.0	2454.0	1790.0	2459.81	2459.81	2461.01	106.92	9.31	346.56	173.11
*	0.080	20.	0.0	0.0	2454.0	2200.0	2460.25	2460.25	2461.50	105.67	9.81	456.87	214.01
*	0.080	20.	0.0	0.0	2454.0	3395.0	2461.23	2461.23	2462.63	107.06	11.09	725.87	328.12

J08

K08

K08

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	0.150	300.	0.0	0.0	2457.2	1025.0	2462.53	2462.16	2463.40	166.32	7.65	161.75	79.48
	0.150	300.	0.0	0.0	2457.2	1770.0	2463.70	2463.48	2464.49	123.45	8.01	352.77	159.30
	0.150	300.	0.0	0.0	2457.2	2175.0	2464.10	0.0	2464.88	116.77	8.26	447.69	201.27
	0.150	300.	0.0	0.0	2457.2	3350.0	2465.09	0.0	2465.83	101.96	8.71	720.89	331.76
	0.160	60.	0.0	0.0	2457.9	1025.0	2463.55	0.0	2464.27	121.04	6.93	174.69	93.17
	0.160	60.	0.0	0.0	2457.9	1770.0	2464.48	0.0	2465.20	110.67	7.69	373.46	168.25
	0.160	60.	0.0	0.0	2457.9	2175.0	2464.80	0.0	2465.59	117.78	8.29	445.87	200.41
	0.160	60.	0.0	0.0	2457.9	3350.0	2465.70	0.0	2466.50	110.23	8.98	695.52	319.08
	0.160	31.	2463.8	2462.5	2457.9	1025.0	2464.59	0.0	2464.80	32.88	4.26	397.42	178.75
	0.160	31.	2463.8	2462.5	2457.9	1770.0	2465.30	0.0	2465.62	45.74	5.51	577.69	261.71
*	0.160	31.	2463.8	2462.5	2457.9	2175.0	2465.52	0.0	2465.91	55.88	6.25	638.26	290.95
	0.160	31.	2463.8	2462.5	2457.9	3350.0	2466.05	0.0	2466.65	79.85	7.94	806.48	374.88
	0.160	15.	0.0	0.0	2457.9	1025.0	2464.61	0.0	2464.87	25.56	4.54	398.52	202.73
	0.160	15.	0.0	0.0	2457.9	1770.0	2465.32	0.0	2465.72	37.46	6.04	577.47	289.21
	0.160	15.	0.0	0.0	2457.9	2175.0	2465.54	0.0	2466.04	45.92	6.87	640.92	320.96
	0.160	15.	0.0	0.0	2457.9	3350.0	2466.06	0.0	2466.85	68.21	8.89	806.01	405.61
*	0.260	495.	0.0	0.0	2466.0	1005.0	2469.93	2469.93	2471.21	224.96	9.42	135.33	67.01
*	0.260	495.	0.0	0.0	2466.0	1740.0	2471.20	2471.20	2472.79	186.90	10.80	228.79	127.27
*	0.260	495.	0.0	0.0	2466.0	2135.0	2471.69	2471.69	2473.46	186.07	11.57	268.94	156.52
*	0.260	495.	0.0	0.0	2466.0	3290.0	2472.92	2472.92	2475.16	183.85	13.36	376.99	242.64
	0.270	40.	0.0	0.0	2466.3	1005.0	2470.82	0.0	2471.94	144.41	8.49	118.32	83.63
	0.270	40.	0.0	0.0	2466.3	1740.0	2472.19	0.0	2473.41	116.28	9.41	251.97	161.36
	0.270	40.	0.0	0.0	2466.3	2135.0	2472.60	0.0	2474.11	131.66	10.54	280.13	186.07
	0.270	40.	0.0	0.0	2466.3	3290.0	2474.37	0.0	2475.76	93.94	10.72	487.40	339.44
	0.270	10.	2472.2	2471.8	2466.3	1005.0	2472.28	0.0	2472.67	36.63	5.33	257.39	166.05
*	0.270	10.	2472.2	2471.8	2466.3	1740.0	2474.28	0.0	2474.68	27.53	5.76	478.76	331.61
	0.270	10.	2472.2	2471.8	2466.3	2135.0	2474.76	0.0	2475.26	32.22	6.50	527.20	376.10
	0.270	10.	2472.2	2471.8	2466.3	3290.0	2476.02	0.0	2476.80	42.14	8.24	662.14	506.80
*	0.280	10.	0.0	0.0	2470.0	1005.0	2473.91	2473.91	2475.24	280.52	9.53	134.33	60.00
*	0.280	10.	0.0	0.0	2470.0	1740.0	2475.21	2475.21	2476.85	230.10	10.92	229.79	114.71
*	0.280	10.	0.0	0.0	2470.0	2135.0	2475.73	2475.73	2477.55	226.68	11.66	272.00	141.80
*	0.280	10.	0.0	0.0	2470.0	3290.0	2476.99	2476.99	2479.31	224.07	13.51	383.30	219.79
*	0.420	750.	0.0	0.0	2487.3	980.0	2492.18	2492.18	2493.25	185.41	8.68	167.85	71.97
*	0.420	750.	0.0	0.0	2487.3	1695.0	2493.26	2493.26	2494.54	183.50	9.99	292.77	125.13
*	0.420	750.	0.0	0.0	2487.3	2080.0	2493.61	2493.61	2495.10	200.96	10.93	336.07	146.73
*	0.420	750.	0.0	0.0	2487.3	3205.0	2494.66	2494.66	2496.49	199.52	12.56	483.41	226.90
*	0.430	60.	0.0	0.0	2489.3	980.0	2493.96	2493.96	2495.55	271.03	10.14	96.68	59.53
*	0.430	60.	0.0	0.0	2489.3	1695.0	2495.23	2495.23	2496.54	188.79	10.10	289.00	123.36
*	0.430	60.	0.0	0.0	2489.3	2080.0	2495.62	2495.62	2497.10	200.07	10.91	336.55	147.05
*	0.430	60.	0.0	0.0	2489.3	3205.0	2496.84	2496.84	2498.49	175.81	12.03	509.29	241.72
	0.430	10.	2495.2	2494.7	2489.3	980.0	2495.55	0.0	2495.89	46.94	5.24	329.16	143.05
	0.430	10.	2495.2	2494.7	2489.3	1695.0	2497.36	0.0	2497.72	33.99	5.62	590.52	290.74
	0.430	10.	2495.2	2494.7	2489.3	2080.0	2497.75	0.0	2498.19	39.86	6.34	650.83	329.46
	0.430	10.	2495.2	2494.7	2489.3	3205.0	2498.57	0.0	2499.30	58.99	8.33	778.42	417.29

L08

L08

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	0.430	15.	0.0	0.0	2491.6	980.0	2495.71	0.0	2495.97	52.51	4.12	237.66	135.23
	0.430	15.	0.0	0.0	2491.6	1695.0	2497.50	0.0	2497.77	29.53	4.22	423.09	311.91
	0.430	15.	0.0	0.0	2491.6	2080.0	2497.92	0.0	2498.25	32.43	4.68	475.83	365.27
	0.430	15.	0.0	0.0	2491.6	3205.0	2498.87	0.0	2499.39	40.70	5.91	601.92	502.39
	0.480	145.	0.0	0.0	2492.3	975.0	2496.79	0.0	2497.41	134.37	6.31	154.57	84.11
	0.480	145.	0.0	0.0	2492.3	1680.0	2498.14	0.0	2498.98	117.98	7.33	232.29	154.67
	0.480	145.	0.0	0.0	2492.3	2060.0	2498.61	0.0	2499.61	125.27	8.03	262.17	184.05
	0.480	145.	0.0	0.0	2492.3	3175.0	2499.69	0.0	2501.18	148.10	9.86	336.98	260.89
	0.480	80.	0.0	0.0	2492.3	975.0	2497.46	0.0	2499.43	216.86	11.27	86.48	66.21
*	0.480	80.	0.0	0.0	2492.3	1680.0	2499.06	2499.06	2500.12	112.28	9.83	291.55	158.54
	0.480	80.	0.0	0.0	2492.3	2060.0	2499.47	0.0	2500.81	132.74	11.14	320.21	178.80
	0.480	80.	0.0	0.0	2492.3	3175.0	2500.73	2500.45	2502.55	153.71	13.42	440.12	256.09
*	0.480	10.	2499.8	2499.0	2492.3	975.0	2498.10	0.0	2499.64	143.18	9.95	97.95	81.48
*	0.480	10.	2499.8	2499.0	2492.3	1680.0	2501.89	0.0	2502.18	22.77	5.65	594.51	352.06
*	0.480	10.	2499.8	2499.0	2492.3	2060.0	2502.53	0.0	2502.86	24.54	6.13	694.84	415.87
*	0.480	10.	2499.8	2499.0	2492.3	3175.0	2503.75	0.0	2504.22	32.09	7.58	915.19	560.49
*	0.480	20.	0.0	0.0	2495.5	975.0	2499.09	2499.09	2500.31	345.83	8.84	110.25	52.43
	0.480	20.	0.0	0.0	2495.5	1680.0	2501.78	0.0	2502.45	85.27	6.60	260.03	181.93
	0.480	20.	0.0	0.0	2495.5	2060.0	2502.39	0.0	2503.16	84.51	7.07	301.66	224.09
	0.480	20.	0.0	0.0	2495.5	3175.0	2503.51	0.0	2504.67	103.03	8.74	393.64	312.80
	0.570	440.	0.0	0.0	2502.0	960.0	2507.11	0.0	2507.68	96.58	6.07	158.46	97.69
	0.570	440.	0.0	0.0	2502.0	1650.0	2507.36	0.0	2508.84	227.41	9.73	170.96	109.41
	0.570	440.	0.0	0.0	2502.0	2025.0	2507.88	2507.55	2509.59	223.27	10.50	198.47	135.52
	0.570	440.	0.0	0.0	2502.0	3120.0	2509.37	2508.98	2511.53	194.20	11.90	293.88	223.89
	0.580	80.	0.0	0.0	2502.3	960.0	2507.87	0.0	2508.32	64.79	5.38	178.45	119.26
	0.580	80.	0.0	0.0	2502.3	1650.0	2509.12	0.0	2509.90	78.04	7.06	233.56	186.78
	0.580	80.	0.0	0.0	2502.3	2025.0	2509.74	0.0	2510.68	81.14	7.76	261.03	224.80
	0.580	80.	0.0	0.0	2502.3	3120.0	2511.21	0.0	2512.64	92.64	9.60	325.14	324.16
*	0.580	10.	2511.9	2509.9	2502.3	960.0	2509.15	0.0	2509.41	25.95	4.09	234.82	188.46
*	0.580	10.	2511.9	2509.9	2502.3	1650.0	2511.55	0.0	2511.92	22.22	4.85	340.46	350.03
*	0.580	10.	2511.9	2509.9	2502.3	2025.0	2512.58	0.0	2512.91	18.56	4.81	578.95	470.08
*	0.580	10.	2511.9	2509.9	2502.3	3120.0	2513.98	0.0	2514.51	25.01	6.17	741.05	623.83
*	0.580	20.	0.0	0.0	2505.3	960.0	2509.06	2509.06	2510.42	335.61	9.38	102.33	52.40
	0.580	20.	0.0	0.0	2505.3	1650.0	2511.29	0.0	2512.37	136.72	8.35	204.44	141.11
	0.580	20.	0.0	0.0	2505.3	2025.0	2512.29	0.0	2513.35	103.24	8.30	267.11	199.30
	0.580	20.	0.0	0.0	2505.3	3120.0	2513.57	0.0	2515.11	115.51	10.11	372.24	290.30
	0.690	550.	0.0	0.0	2513.1	940.0	2519.78	0.0	2520.52	113.47	7.05	176.37	88.24
	0.690	550.	0.0	0.0	2513.1	1620.0	2520.36	2520.29	2521.86	208.09	10.28	236.99	112.30
*	0.690	550.	0.0	0.0	2513.1	1985.0	2520.85	2520.85	2522.49	213.68	11.03	291.53	135.79
*	0.690	550.	0.0	0.0	2513.1	3055.0	2522.06	2522.06	2524.00	219.45	12.63	440.26	206.23
*	0.700	40.	0.0	0.0	2515.6	940.0	2520.89	2520.89	2522.45	338.76	10.10	103.47	51.07
*	0.700	40.	0.0	0.0	2515.6	1620.0	2522.50	2522.50	2524.04	242.57	10.61	238.48	104.01
*	0.700	40.	0.0	0.0	2515.6	1985.0	2523.01	2523.01	2524.67	241.57	11.27	293.03	127.71
*	0.700	40.	0.0	0.0	2515.6	3055.0	2524.21	2524.21	2526.18	243.47	12.87	436.48	195.79

M08

MOB

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	0.700	30.	2520.1	2523.1	2515.6	940.0	2522.53	0.0	2523.04	79.50	6.10	241.83	105.43
	0.700	30.	2520.1	2523.1	2515.6	1620.0	2523.42	0.0	2524.28	117.30	8.24	340.87	149.58
	0.700	30.	2520.1	2523.1	2515.6	1985.0	2523.73	0.0	2524.81	142.03	9.37	376.75	166.56
	0.700	30.	2520.1	2523.1	2515.6	3055.0	2524.40	0.0	2526.18	215.34	12.33	461.16	208.18
	0.720	40.	0.0	0.0	2516.6	935.0	2522.78	0.0	2523.50	67.98	6.79	137.69	113.40
	0.720	40.	0.0	0.0	2516.6	1610.0	2523.76	2522.64	2525.14	105.21	9.46	187.67	156.96
	0.720	40.	0.0	0.0	2516.6	1980.0	2524.12	2523.59	2525.89	124.78	10.77	214.01	177.25
*	0.720	40.	0.0	0.0	2516.6	3045.0	2525.27	2525.27	2527.82	146.95	13.22	301.35	251.19
	0.720	10.	2522.1	2520.3	2516.6	935.0	2524.16	0.0	2524.55	27.13	5.05	216.86	179.50
*	0.720	10.	2522.1	2520.3	2516.6	1610.0	2525.05	0.0	2525.83	46.57	7.28	284.29	235.93
	0.720	10.	2522.1	2520.3	2516.6	1980.0	2525.35	0.0	2526.40	59.06	8.45	308.45	257.64
	0.720	10.	2522.1	2520.3	2516.6	3045.0	2525.75	0.0	2527.86	112.87	12.13	339.52	206.61
	0.720	10.	0.0	0.0	2518.2	935.0	2524.18	0.0	2524.63	36.43	5.47	202.82	154.90
	0.720	10.	0.0	0.0	2518.2	1610.0	2525.08	0.0	2525.97	59.34	7.77	271.57	208.99
	0.720	10.	0.0	0.0	2518.2	1980.0	2525.39	0.0	2526.56	74.16	8.98	296.21	229.92
	0.720	10.	0.0	0.0	2518.2	3045.0	2525.83	2525.64	2528.15	136.42	12.73	331.02	260.70
	0.800	490.	0.0	0.0	2523.5	920.0	2527.85	0.0	2529.11	280.78	9.02	101.99	54.90
	0.800	490.	0.0	0.0	2523.5	1585.0	2529.72	0.0	2531.05	186.13	9.24	171.57	116.18
	0.800	490.	0.0	0.0	2523.5	1945.0	2530.55	0.0	2531.94	165.53	9.48	206.80	151.18
	0.800	490.	0.0	0.0	2523.5	2995.0	2532.71	0.0	2534.14	107.05	9.75	367.88	289.47
	0.810	60.	0.0	0.0	2522.5	920.0	2529.38	0.0	2529.72	40.90	4.63	199.31	143.85
	0.810	60.	0.0	0.0	2522.5	1585.0	2531.09	0.0	2531.59	42.07	5.74	313.52	244.38
	0.810	60.	0.0	0.0	2522.5	1945.0	2531.90	0.0	2532.46	40.98	6.14	384.99	303.84
	0.810	60.	0.0	0.0	2522.5	2995.0	2533.88	0.0	2534.58	39.00	7.03	588.35	479.59
*	0.810	10.	2531.8	2528.7	2522.5	920.0	2532.74	0.0	2532.83	6.09	2.54	465.75	372.66
*	0.810	10.	2531.8	2528.7	2522.5	1585.0	2533.93	0.0	2534.12	10.72	3.70	593.56	484.21
*	0.810	10.	2531.8	2528.7	2522.5	1945.0	2534.38	0.0	2534.64	13.39	4.27	646.80	531.47
	0.810	10.	2531.8	2528.7	2522.5	2995.0	2535.49	0.0	2535.94	20.82	5.72	785.37	656.41
	0.810	15.	0.0	0.0	2524.8	920.0	2532.69	0.0	2532.91	14.28	3.79	259.55	243.47
	0.810	15.	0.0	0.0	2524.8	1585.0	2533.83	0.0	2534.26	21.96	5.30	351.41	338.20
	0.810	15.	0.0	0.0	2524.8	1945.0	2534.27	0.0	2534.81	26.31	6.04	390.72	379.17
	0.810	15.	0.0	0.0	2524.8	2995.0	2535.31	0.0	2536.20	37.53	7.89	493.47	488.89
*	0.910	415.	0.0	0.0	2531.3	905.0	2535.23	2535.23	2536.68	277.35	9.66	93.70	54.34
*	0.910	415.	0.0	0.0	2531.3	1555.0	2536.78	2536.78	2538.44	217.59	10.36	158.67	105.42
*	0.910	415.	0.0	0.0	2531.3	1910.0	2537.78	2537.78	2538.91	124.14	8.99	342.15	171.43
*	0.910	415.	0.0	0.0	2531.3	2935.0	2538.66	2538.66	2539.91	124.97	10.11	547.90	252.54
	0.920	40.	0.0	0.0	2531.3	905.0	2536.71	0.0	2537.29	77.64	6.14	152.77	102.71
	0.920	40.	0.0	0.0	2531.3	1555.0	2538.48	0.0	2538.89	41.47	5.70	503.22	241.46
	0.920	40.	0.0	0.0	2531.3	1910.0	2538.78	0.0	2539.26	47.82	6.34	576.25	276.19
	0.920	40.	0.0	0.0	2531.3	2935.0	2539.72	0.0	2540.28	51.70	7.29	825.04	408.20
*	0.920	12.	2536.5	2535.3	2531.3	905.0	2537.31	0.0	2537.70	45.62	5.09	242.05	133.98
*	0.920	12.	2536.5	2535.3	2531.3	1555.0	2538.48	0.0	2538.89	41.04	5.68	505.97	242.74
*	0.920	12.	2536.5	2535.3	2531.3	1910.0	2538.79	0.0	2539.26	47.05	6.30	580.94	278.44
	0.920	12.	2536.5	2535.3	2531.3	2935.0	2539.72	0.0	2540.28	51.22	7.86	828.32	410.10

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	0.920	10.	0.0	0.0	2532.6	905.0	2537.23	2536.47	2537.90	94.11	6.73	186.26	93.29
	0.920	10.	0.0	0.0	2532.6	1555.0	2538.52	0.0	2538.95	50.28	6.17	473.66	219.31
	0.920	10.	0.0	0.0	2532.6	1910.0	2538.84	0.0	2539.31	53.88	6.68	550.57	260.21
	0.920	10.	0.0	0.0	2532.6	2935.0	2539.88	0.0	2540.34	45.97	7.04	830.61	432.89
	1.250	1760.	0.0	0.0	2553.6	850.0	2558.42	2558.04	2559.77	169.03	9.33	91.10	65.38
*	1.250	1760.	0.0	0.0	2553.6	1465.0	2559.98	2559.98	2560.67	85.01	7.82	391.25	158.89
*	1.250	1760.	0.0	0.0	2553.6	1795.0	2560.18	2560.18	2560.93	94.82	8.49	460.74	184.33
*	1.250	1760.	0.0	0.0	2553.6	2750.0	2560.78	2560.78	2561.52	95.96	9.23	684.52	280.73
*	1.280	150.	0.0	0.0	2560.2	845.0	2564.61	2564.61	2566.30	232.57	10.43	81.03	55.41
*	1.280	150.	0.0	0.0	2560.2	1455.0	2566.59	2566.59	2567.25	82.41	7.72	395.29	160.28
*	1.280	150.	0.0	0.0	2560.2	1785.0	2566.84	2566.84	2567.52	85.67	8.14	482.69	192.85
*	1.280	150.	0.0	0.0	2560.2	2735.0	2567.34	2567.34	2568.11	100.39	9.39	668.06	272.97
	1.590	1690.	0.0	0.0	2584.8	795.0	2590.11	0.0	2590.89	96.77	7.09	112.06	80.81
*	1.590	1690.	0.0	0.0	2584.8	1365.0	2590.46	2590.46	2592.35	215.44	11.03	123.80	93.00
*	1.590	1690.	0.0	0.0	2584.8	1675.0	2591.06	2591.06	2593.15	210.89	11.60	144.37	115.34
*	1.590	1690.	0.0	0.0	2584.8	2565.0	2592.55	2592.55	2595.10	199.50	12.81	200.25	181.60
	1.590	40.	0.0	0.0	2584.8	795.0	2590.63	0.0	2591.22	64.26	6.13	129.60	99.17
	1.590	40.	0.0	0.0	2584.8	1365.0	2592.03	0.0	2592.93	76.03	7.59	179.84	156.54
	1.590	40.	0.0	0.0	2584.8	1675.0	2592.73	0.0	2593.74	77.64	8.09	207.00	190.09
	1.590	40.	0.0	0.0	2584.8	2565.0	2594.39	0.0	2595.70	77.88	9.19	286.04	290.65
	1.590	12.	2594.5	2592.3	2584.8	795.0	2590.65	0.0	2591.23	63.36	6.10	130.26	99.88
	1.590	12.	2594.5	2592.3	2584.8	1365.0	2592.07	0.0	2592.95	74.34	7.53	181.31	158.32
	1.590	12.	2594.5	2592.3	2584.8	1675.0	2592.77	0.0	2593.77	75.71	8.02	208.90	192.50
	1.590	12.	2594.5	2592.3	2584.8	2565.0	2594.79	0.0	2595.93	62.73	8.58	316.21	323.85
*	1.600	10.	0.0	0.0	2588.0	795.0	2591.98	2591.98	2593.24	233.67	8.99	88.45	52.01
*	1.600	10.	0.0	0.0	2588.0	1365.0	2593.13	2593.13	2594.78	215.74	10.30	132.53	92.93
*	1.600	10.	0.0	0.0	2588.0	1675.0	2593.64	2593.64	2595.48	212.26	10.88	154.02	114.97
*	1.600	10.	0.0	0.0	2588.0	2565.0	2595.01	2595.01	2597.11	167.47	11.73	242.57	198.21
	1.870	1450.	0.0	0.0	2621.5	750.0	2625.62	0.0	2626.61	226.22	8.00	93.75	49.87
*	1.870	1450.	0.0	0.0	2621.5	1285.0	2626.72	2626.72	2628.02	220.94	9.18	159.00	86.45
*	1.870	1450.	0.0	0.0	2621.5	1575.0	2627.54	2627.54	2628.49	135.56	8.18	333.32	135.28
*	1.870	1450.	0.0	0.0	2621.5	2405.0	2628.37	2628.37	2629.29	119.99	8.73	609.69	219.55
*	1.880	80.	0.0	0.0	2625.6	750.0	2629.66	2629.66	2631.17	242.09	10.16	92.61	48.20
*	1.880	80.	0.0	0.0	2625.6	1285.0	2631.82	2631.82	2632.71	89.07	8.62	392.55	136.15
*	1.880	80.	0.0	0.0	2625.6	1575.0	2632.13	2632.13	2633.07	94.64	9.22	495.65	161.90
*	1.880	80.	0.0	0.0	2625.6	2405.0	2632.77	2632.77	2633.87	112.31	10.78	712.78	226.94
	1.880	16.	2631.5	2629.4	2625.6	750.0	2631.25	0.0	2631.79	54.98	6.30	228.78	101.15
	1.880	16.	2631.5	2629.4	2625.6	1285.0	2633.35	0.0	2633.53	18.68	4.66	910.97	297.33
	1.880	16.	2631.5	2629.4	2625.6	1575.0	2633.66	0.0	2633.87	21.40	5.13	1020.93	340.45
	1.880	16.	2631.5	2629.4	2625.6	2405.0	2634.30	0.0	2634.60	30.40	6.47	1244.38	436.20
	1.880	10.	0.0	0.0	2625.6	750.0	2631.69	0.0	2631.85	19.97	3.54	353.38	167.83
	1.880	10.	0.0	0.0	2625.6	1285.0	2633.49	0.0	2633.55	6.67	2.62	959.97	497.42
	1.880	10.	0.0	0.0	2625.6	1575.0	2633.83	0.0	2633.90	7.33	2.85	1077.80	581.92
	1.880	10.	0.0	0.0	2625.6	2405.0	2634.54	0.0	2634.64	9.52	3.51	1327.67	779.31

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	1.900	35.	0.0	0.0	2626.1	745.0	2631.73	0.0	2632.41	131.71	6.61	112.69	64.92
*	1.900	35.	0.0	0.0	2626.1	1280.0	2633.49	0.0	2634.11	85.42	6.60	264.48	138.50
	1.900	35.	0.0	0.0	2626.1	1565.0	2633.76	2632.92	2634.50	97.27	7.31	316.99	158.68
	1.900	35.	0.0	0.0	2626.1	2395.0	2634.46	0.0	2635.37	112.95	8.62	471.63	225.35
	1.900	10.	0.0	0.0	2626.1	745.0	2631.90	0.0	2632.51	76.80	6.28	118.66	85.01
	1.900	10.	0.0	0.0	2626.1	1280.0	2633.57	0.0	2634.18	54.90	6.53	277.83	172.76
	1.900	10.	0.0	0.0	2626.1	1565.0	2633.84	0.0	2634.57	63.00	7.27	333.08	197.16
	1.900	10.	0.0	0.0	2626.1	2395.0	2634.52	0.0	2635.50	77.73	8.81	485.48	271.65
	1.900	32.	2633.6	2631.9	2626.1	745.0	2632.52	0.0	2632.94	47.55	5.25	149.81	108.04
	1.900	32.	2633.6	2631.9	2626.1	1280.0	2634.74	0.0	2634.97	18.21	4.37	537.81	299.97
	1.900	32.	2633.6	2631.9	2626.1	1565.0	2635.05	0.0	2635.32	20.89	4.85	620.59	342.40
	1.900	32.	2633.6	2631.9	2626.1	2395.0	2635.77	0.0	2636.11	25.69	5.79	930.26	472.49
	1.900	10.	0.0	0.0	2628.3	745.0	2632.48	0.0	2633.12	112.82	6.45	122.13	70.14
	1.900	10.	0.0	0.0	2628.3	1280.0	2634.73	0.0	2635.02	31.85	4.89	511.53	226.80
	1.900	10.	0.0	0.0	2628.3	1565.0	2635.04	0.0	2635.38	35.93	5.39	592.79	261.10
	1.900	10.	0.0	0.0	2628.3	2395.0	2635.76	0.0	2636.18	43.01	6.40	899.63	365.19
*	2.170	1370.	0.0	0.0	2662.6	705.0	2666.48	2666.48	2667.81	234.64	9.26	76.16	46.02
*	2.170	1370.	0.0	0.0	2662.6	1200.0	2667.69	2667.69	2669.38	220.62	10.42	115.15	80.79
*	2.170	1370.	0.0	0.0	2662.6	1470.0	2668.25	2668.25	2670.08	213.56	10.86	135.40	100.59
*	2.170	1370.	0.0	0.0	2662.6	2240.0	2669.56	2669.56	2671.74	201.89	11.86	188.93	157.65
*	2.180	60.	0.0	0.0	2664.1	705.0	2667.99	2667.99	2669.31	232.82	9.23	76.38	46.20
*	2.180	60.	0.0	0.0	2664.1	1200.0	2669.22	2669.22	2670.88	216.71	10.35	115.91	81.51
*	2.180	60.	0.0	0.0	2664.1	1470.0	2669.77	2669.77	2671.58	211.27	10.81	135.94	101.13
*	2.180	60.	0.0	0.0	2664.1	2240.0	2671.07	2671.07	2673.25	201.48	11.85	189.07	157.81
*	2.180	12.	2671.0	2669.6	2664.1	705.0	2668.40	0.0	2669.38	154.48	7.94	88.76	56.72
*	2.180	12.	2671.0	2669.6	2664.1	1200.0	2671.61	0.0	2672.10	41.40	5.61	214.09	186.51
*	2.180	12.	2671.0	2669.6	2664.1	1470.0	2672.42	0.0	2672.94	39.61	5.81	253.15	233.58
*	2.180	12.	2671.0	2669.6	2664.1	2240.0	2673.12	0.0	2674.03	61.50	7.67	328.74	285.64
	2.180	15.	0.0	0.0	2664.1	705.0	2668.88	0.0	2669.59	98.61	6.73	104.69	71.00
	2.180	15.	0.0	0.0	2664.1	1200.0	2671.69	0.0	2672.16	39.74	5.52	217.37	190.36
	2.180	15.	0.0	0.0	2664.1	1470.0	2672.49	0.0	2673.00	38.13	5.73	256.77	238.07
	2.180	15.	0.0	0.0	2664.1	2240.0	2673.28	0.0	2674.12	55.63	7.41	355.94	300.31
*	2.210	35.	0.0	0.0	2667.6	700.0	2671.37	2671.37	2672.59	284.89	8.96	87.65	41.47
*	2.210	35.	0.0	0.0	2667.6	1195.0	2672.51	2672.51	2674.03	239.49	10.29	151.59	77.22
*	2.210	35.	0.0	0.0	2667.6	1460.0	2673.00	2673.00	2674.66	229.77	10.88	184.60	96.32
*	2.210	35.	0.0	0.0	2667.6	2225.0	2674.28	2674.28	2676.13	195.94	11.90	287.83	158.95
	2.210	80.	0.0	0.0	2667.6	700.0	2673.07	0.0	2673.58	61.98	5.71	122.53	88.91
	2.210	80.	0.0	0.0	2667.6	1195.0	2674.22	0.0	2675.16	85.03	7.78	153.61	129.59
	2.210	80.	0.0	0.0	2667.6	1460.0	2674.65	0.0	2675.86	99.41	8.83	165.29	146.43
	2.210	80.	0.0	0.0	2667.6	2225.0	2676.35	0.0	2676.97	50.57	7.42	569.67	312.88
	2.210	39.	2675.5	2673.7	2667.6	700.0	2673.13	0.0	2673.62	59.20	5.63	124.23	90.98
	2.210	39.	2675.5	2673.7	2667.6	1195.0	2675.14	0.0	2675.83	51.56	6.70	178.48	166.42
	2.210	39.	2675.5	2673.7	2667.6	1460.0	2676.62	0.0	2676.85	18.57	4.60	621.30	338.81
	2.210	39.	2675.5	2673.7	2667.6	2225.0	2678.27	0.0	2678.49	16.14	4.85	1057.24	553.83

C09

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
*	2.210	20.	0.0	0.0	2669.6	700.0	2673.36	2673.36	2674.60	240.08	9.02	87.22	45.18
	2.210	20.	0.0	0.0	2669.6	1195.0	2675.07	0.0	2676.21	124.35	8.91	190.32	107.16
	2.210	20.	0.0	0.0	2669.6	1460.0	2676.38	0.0	2677.22	70.34	7.93	297.05	174.09
	2.210	20.	0.0	0.0	2669.6	2225.0	2677.98	0.0	2678.89	59.76	8.59	504.06	287.82
	2.290	380.	0.0	0.0	2677.5	685.0	2681.62	0.0	2682.49	179.11	7.59	101.99	51.18
*	2.290	380.	0.0	0.0	2677.5	1170.0	2682.32	2682.32	2683.80	243.15	9.98	138.14	75.03
*	2.290	380.	0.0	0.0	2677.5	1430.0	2682.79	2682.79	2684.42	237.13	10.52	162.91	92.86
*	2.290	380.	0.0	0.0	2677.5	2180.0	2683.85	2683.85	2685.97	227.12	12.12	223.26	144.65

AYLES CREEK

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	0.030	1045.	2453.0	0.0	0.0	0.0	30.00	0.0
	0.030	1805.	2455.1	2.1	0.0	0.0	60.08	0.0
	0.030	2220.	2455.9	0.8	0.0	0.0	94.33	0.0
	0.030	3425.	2457.5	1.6	0.0	0.0	96.65	0.0
	0.030	1045.	2453.5	0.0	0.5	0.0	30.00	40.00
	0.030	1805.	2455.7	2.2	0.6	0.0	70.64	40.00
	0.030	2220.	2456.6	0.9	0.7	0.0	95.35	40.00
	0.030	3425.	2458.3	1.7	0.8	0.0	97.76	40.00
	0.030	1045.	2454.2	0.0	0.6	0.0	30.00	32.00
	0.030	1805.	2456.6	2.4	0.9	0.0	95.26	32.00
	0.030	2220.	2457.3	0.7	0.7	0.0	96.31	32.00
	0.030	3425.	2458.7	1.4	0.4	0.0	98.36	32.00
	0.030	1045.	2454.0	0.0	-0.2	0.0	30.00	10.00
	0.030	1805.	2456.6	2.6	-0.0	0.0	160.45	10.00
	0.030	2220.	2457.5	0.9	0.2	0.0	164.81	10.00
	0.030	3425.	2459.3	1.8	0.6	0.0	171.74	10.00
	0.080	1035.	2456.5	0.0	2.5	0.0	105.89	200.00
	0.080	1790.	2457.9	1.4	1.3	0.0	256.23	200.00
	0.080	2200.	2458.4	0.5	0.9	0.0	273.55	200.00
	0.080	3395.	2460.0	1.6	0.7	0.0	309.13	200.00
	0.080	1035.	2457.4	0.0	0.9	0.0	226.45	80.00
	0.080	1790.	2458.6	1.1	0.7	0.0	277.74	80.00
	0.080	2200.	2459.0	0.4	0.6	0.0	291.84	80.00
	0.080	3395.	2460.3	1.3	0.3	0.0	311.63	80.00
	0.080	1035.	2459.1	0.0	1.7	0.0	295.56	10.00
*	0.080	1790.	2459.9	0.8	1.4	0.0	307.94	10.00
*	0.080	2200.	2460.2	0.3	1.2	0.0	310.62	10.00
	0.080	3395.	2460.9	0.7	0.6	0.0	316.82	10.00
	0.080	1035.	2458.8	0.0	-0.4	0.0	103.16	20.00
*	0.080	1790.	2459.8	1.0	-0.1	0.0	243.24	20.00
*	0.080	2200.	2460.2	0.4	0.0	0.0	257.55	20.00
*	0.080	3395.	2461.2	1.0	0.3	0.0	289.51	20.00
	0.150	1025.	2462.5	0.0	3.8	0.0	118.73	300.00
	0.150	1770.	2463.7	1.2	3.9	0.0	213.51	300.00
	0.150	2175.	2464.1	0.4	3.8	0.0	242.48	300.00
	0.150	3350.	2465.1	1.0	3.9	0.0	311.12	300.00
	0.160	1025.	2463.6	0.0	1.0	0.0	94.70	60.00
	0.160	1770.	2464.5	0.9	0.8	0.0	220.16	60.00
	0.160	2175.	2464.8	0.3	0.7	0.0	241.95	60.00
	0.160	3350.	2465.7	0.9	0.6	0.0	305.39	60.00
	0.160	1025.	2464.6	0.0	1.0	0.0	227.59	31.00
	0.160	1770.	2465.3	0.7	0.8	0.0	277.27	31.00

E09

*	0.160	2175.	2465.5	0.2	0.7	0.0	292.10	31.00
	0.160	3350.	2466.1	0.5	0.4	0.0	336.35	31.00

F09

F09

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	0.160	1025.	2464.6	0.0	0.0	0.0	229.03	15.00
	0.160	1770.	2465.3	0.7	0.0	0.0	278.10	15.00
	0.160	2175.	2465.5	0.2	0.0	0.0	293.55	15.00
	0.160	3350.	2466.1	0.5	0.0	0.0	337.34	15.00
*	0.260	1005.	2469.9	0.0	5.3	0.0	64.24	495.00
*	0.260	1740.	2471.2	1.3	5.9	0.0	80.51	495.00
*	0.260	2135.	2471.7	0.5	6.2	0.0	83.80	495.00
*	0.260	3290.	2472.9	1.2	6.9	0.0	92.06	495.00
	0.270	1005.	2470.8	0.0	0.9	0.0	32.00	40.00
	0.270	1740.	2472.2	1.4	1.0	0.0	68.24	40.00
	0.270	2135.	2472.6	0.4	0.9	0.0	70.18	40.00
	0.270	3290.	2474.4	1.8	1.5	0.0	99.80	40.00
	0.270	1005.	2472.3	0.0	1.5	0.0	68.62	10.00
*	0.270	1740.	2474.3	2.0	2.1	0.0	99.22	10.00
	0.270	2135.	2474.8	0.5	2.2	0.0	102.45	10.00
	0.270	3290.	2476.0	1.3	1.7	0.0	111.80	10.00
*	0.280	1005.	2473.9	0.0	1.6	0.0	64.00	10.00
*	0.280	1740.	2475.2	1.3	0.9	0.0	80.59	10.00
*	0.280	2135.	2475.7	0.5	1.0	0.0	84.04	10.00
*	0.280	3290.	2477.0	1.3	1.0	0.0	92.52	10.00
*	0.420	980.	2492.2	0.0	18.3	0.0	105.13	750.00
*	0.420	1695.	2493.3	1.1	18.0	0.0	122.82	750.00
*	0.420	2080.	2493.6	0.3	17.9	0.0	126.22	750.00
*	0.420	3205.	2494.7	1.1	17.7	0.0	150.65	750.00
*	0.430	980.	2494.0	0.0	1.8	0.0	30.76	60.00
*	0.430	1695.	2495.2	1.3	2.0	0.0	122.69	60.00
*	0.430	2080.	2495.6	0.4	2.0	0.0	124.01	60.00
*	0.430	3205.	2496.8	1.2	2.2	0.0	151.36	60.00
	0.430	980.	2495.5	0.0	1.6	0.0	123.89	10.00
	0.430	1695.	2497.4	1.8	2.1	0.0	153.58	10.00
	0.430	2080.	2497.8	0.4	2.1	0.0	155.21	10.00
	0.430	3205.	2498.6	0.8	1.7	0.0	158.60	10.00
	0.430	980.	2495.7	0.0	0.2	0.0	87.37	15.00
	0.430	1695.	2497.5	1.8	0.1	0.0	120.26	15.00
	0.430	2080.	2497.9	0.4	0.2	0.0	123.49	15.00
	0.430	3205.	2498.9	0.9	0.3	0.0	148.45	15.00
	0.480	975.	2496.8	0.0	1.1	0.0	52.60	145.00
	0.480	1680.	2498.1	1.4	0.6	0.0	62.26	145.00
	0.480	2060.	2498.6	0.5	0.7	0.0	65.59	145.00
	0.480	3175.	2499.7	1.1	0.8	0.0	73.25	145.00
	0.480	975.	2497.5	0.0	0.7	0.0	18.00	80.00
*	0.480	1680.	2499.1	1.6	0.9	0.0	68.70	80.00
	0.480	2060.	2499.5	0.4	0.9	0.0	71.65	80.00
	0.480	3175.	2500.7	1.3	1.0	0.0	119.47	80.00

G09

G09

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	0.480	975.	2498.1	0.0	0.6	0.0	18.00	10.00
*	0.480	1680.	2501.9	3.8	2.8	0.0	148.13	10.00
*	0.480	2060.	2502.5	0.6	3.1	0.0	164.09	10.00
*	0.480	3175.	2503.8	1.2	3.0	0.0	194.61	10.00
*	0.480	975.	2499.1	0.0	1.0	0.0	46.06	20.00
	0.480	1680.	2501.8	2.7	-0.1	0.0	65.35	20.00
	0.480	2060.	2502.4	0.6	-0.1	0.0	69.74	20.00
	0.480	3175.	2503.5	1.1	-0.2	0.0	109.15	20.00
	0.570	960.	2507.1	0.0	8.0	0.0	46.75	440.00
	0.570	1650.	2507.4	0.3	5.6	0.0	49.74	440.00
	0.570	2025.	2507.9	0.5	5.5	0.0	55.73	440.00
	0.570	3120.	2509.4	1.5	5.9	0.0	74.82	440.00
	0.580	960.	2507.9	0.0	0.8	0.0	44.00	80.00
	0.580	1650.	2509.1	1.3	1.8	0.0	44.00	80.00
	0.580	2025.	2509.7	0.6	1.9	0.0	44.00	80.00
	0.580	3120.	2511.2	1.5	1.8	0.0	44.00	80.00
*	0.580	960.	2509.2	0.0	1.3	0.0	44.00	10.00
*	0.580	1650.	2511.6	2.4	2.4	0.0	44.00	10.00
*	0.580	2025.	2512.6	1.0	2.8	0.0	110.35	10.00
*	0.580	3120.	2514.0	1.4	2.8	0.0	119.93	10.00
*	0.580	960.	2509.1	0.0	-0.1	0.0	37.85	20.00
	0.580	1650.	2511.3	2.2	-0.3	0.0	56.94	20.00
	0.580	2025.	2512.3	1.0	-0.3	0.0	68.42	20.00
	0.580	3120.	2513.6	1.3	-0.4	0.0	96.50	20.00
	0.690	940.	2519.8	0.0	10.7	0.0	100.17	550.00
	0.690	1620.	2520.4	0.6	9.1	0.0	108.29	550.00
*	0.690	1985.	2520.9	0.5	8.6	0.0	115.12	550.00
*	0.690	3055.	2522.1	1.2	8.5	0.0	131.94	550.00
*	0.700	940.	2520.9	0.0	1.1	0.0	54.13	40.00
*	0.700	1620.	2522.5	1.6	2.1	0.0	104.07	40.00
*	0.700	1985.	2523.0	0.5	2.2	0.0	111.02	40.00
*	0.700	3055.	2524.2	1.2	2.2	0.0	127.50	40.00
	0.700	940.	2522.5	0.0	1.6	0.0	104.51	30.00
	0.700	1620.	2523.4	0.9	0.9	0.0	116.77	30.00
	0.700	1985.	2523.7	0.3	0.7	0.0	120.91	30.00
	0.700	3055.	2524.4	0.7	0.2	0.0	130.12	30.00
	0.720	935.	2522.8	0.0	0.3	0.0	32.27	40.00
	0.720	1610.	2523.8	1.0	0.3	0.0	69.80	40.00
	0.720	1980.	2524.1	0.4	0.4	0.0	73.71	40.00
*	0.720	3045.	2525.3	1.1	0.9	0.0	78.50	40.00
	0.720	935.	2524.2	0.0	1.4	0.0	73.95	10.00
*	0.720	1610.	2525.0	0.9	1.3	0.0	77.79	10.00
	0.720	1980.	2525.4	0.3	1.2	0.0	78.80	10.00
	0.720	3045.	2525.7	0.4	0.5	0.0	80.08	10.00

H09

H09

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	0.720	935.	2524.2	0.0	0.0	0.0	74.03	10.00
	0.720	1610.	2525.1	0.9	0.0	0.0	77.89	10.00
	0.720	1980.	2525.4	0.3	0.0	0.0	78.92	10.00
	0.720	3045.	2525.8	0.4	0.1	0.0	80.34	10.00
	0.800	920.	2527.8	0.0	3.7	0.0	34.14	490.00
	0.800	1585.	2529.7	1.9	4.6	0.0	40.03	490.00
	0.800	1945.	2530.5	0.8	5.2	0.0	51.66	490.00
	0.800	2995.	2532.7	2.2	6.9	0.0	90.44	490.00
	0.810	920.	2529.4	0.0	1.5	0.0	47.12	60.00
	0.810	1585.	2531.1	1.7	1.4	0.0	82.99	60.00
	0.810	1945.	2531.9	0.8	1.4	0.0	92.44	60.00
	0.810	2995.	2533.9	2.0	1.2	0.0	113.48	60.00
*	0.810	920.	2532.7	0.0	3.4	0.0	101.32	10.00
*	0.810	1585.	2533.9	1.2	2.8	0.0	113.97	10.00
*	0.810	1945.	2534.4	0.5	2.5	0.0	118.84	10.00
	0.810	2995.	2535.5	1.1	1.6	0.0	130.67	10.00
	0.810	920.	2532.7	0.0	-0.1	0.0	70.21	15.00
	0.810	1585.	2533.8	1.1	-0.1	0.0	88.48	15.00
	0.810	1945.	2534.3	0.4	-0.1	0.0	93.09	15.00
	0.810	2995.	2535.3	1.0	-0.2	0.0	104.19	15.00
*	0.910	905.	2535.2	0.0	2.5	0.0	32.69	415.00
*	0.910	1555.	2536.8	1.5	2.9	0.0	100.05	415.00
*	0.910	1910.	2537.8	1.0	3.5	0.0	219.96	415.00
*	0.910	2935.	2538.7	0.9	3.4	0.0	247.40	415.00
	0.920	905.	2536.7	0.0	1.5	0.0	86.62	40.00
	0.920	1555.	2538.5	1.8	1.7	0.0	241.71	40.00
	0.920	1910.	2538.8	0.3	1.0	0.0	252.93	40.00
	0.920	2935.	2539.7	0.9	1.1	0.0	272.36	40.00
*	0.920	905.	2537.3	0.0	0.6	0.0	205.29	12.00
*	0.920	1555.	2538.5	1.2	0.0	0.0	242.06	12.00
*	0.920	1910.	2538.8	0.3	0.0	0.0	253.97	12.00
	0.920	2935.	2539.7	0.9	0.0	0.0	272.67	12.00
	0.920	905.	2537.2	0.0	-0.1	0.0	195.15	10.00
	0.920	1555.	2538.5	1.3	0.0	0.0	243.11	10.00
	0.920	1910.	2538.8	0.3	0.0	0.0	256.27	10.00
	0.920	2935.	2539.9	1.0	0.2	0.0	276.73	10.00
	1.250	850.	2558.4	0.0	21.2	0.0	25.17	1760.00
*	1.250	1465.	2560.0	1.6	21.5	0.0	346.35	1760.00
*	1.250	1795.	2560.2	0.2	21.3	0.0	354.84	1760.00
*	1.250	2750.	2560.8	0.6	20.9	0.0	380.88	1760.00
*	1.280	845.	2564.6	0.0	6.2	0.0	24.24	150.00
*	1.280	1455.	2566.6	2.0	6.6	0.0	346.85	150.00
*	1.280	1785.	2566.8	0.2	6.7	0.0	357.47	150.00
*	1.280	2735.	2567.3	0.5	6.6	0.0	379.02	150.00

I09

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1.590	795.	2590.1	0.0	25.5	0.0	32.05	1690.00
*	1.590	1365.	2590.5	0.4	23.9	0.0	33.20	1690.00
*	1.590	1675.	2591.1	0.6	24.2	0.0	35.14	1690.00
*	1.590	2565.	2592.6	1.5	25.2	0.0	39.92	1690.00
	1.590	795.	2590.6	0.0	0.5	0.0	33.76	40.00
	1.590	1365.	2592.0	1.4	1.6	0.0	38.24	40.00
	1.590	1675.	2592.7	0.7	1.7	0.0	40.46	40.00
	1.590	2565.	2594.4	1.7	1.8	0.0	66.73	40.00
	1.590	795.	2590.7	0.0	0.0	0.0	33.82	12.00
	1.590	1365.	2592.1	1.4	0.0	0.0	38.36	12.00
	1.590	1675.	2592.8	0.7	0.0	0.0	40.61	12.00
	1.590	2565.	2594.8	2.0	0.4	0.0	80.60	12.00
*	1.600	795.	2592.0	0.0	1.3	0.0	35.91	10.00
*	1.600	1365.	2593.1	1.1	1.1	0.0	41.01	10.00
*	1.600	1675.	2593.6	0.5	0.9	0.0	43.28	10.00
*	1.600	2565.	2595.0	1.4	0.2	0.0	87.80	10.00
	1.870	750.	2625.6	0.0	33.6	0.0	37.53	1450.00
*	1.870	1285.	2626.7	1.1	33.6	0.0	121.89	1450.00
*	1.870	1575.	2627.5	0.8	33.9	0.0	321.69	1450.00
*	1.870	2405.	2628.4	0.8	33.4	0.0	338.05	1450.00
*	1.880	750.	2629.7	0.0	4.0	0.0	37.38	80.00
*	1.880	1285.	2631.8	2.2	5.1	0.0	329.99	80.00
*	1.880	1575.	2632.1	0.3	4.6	0.0	335.52	80.00
*	1.880	2405.	2632.8	0.6	4.4	0.0	340.27	80.00
	1.880	750.	2631.3	0.0	1.6	0.0	199.28	16.00
	1.880	1285.	2633.3	2.1	1.5	0.0	344.54	16.00
	1.880	1575.	2633.7	0.3	1.5	0.0	346.89	16.00
	1.880	2405.	2634.3	0.6	1.5	0.0	351.61	16.00
	1.880	750.	2631.7	0.0	0.4	0.0	325.96	10.00
	1.880	1285.	2633.5	1.8	0.1	0.0	345.59	10.00
	1.880	1575.	2633.8	0.3	0.2	0.0	348.10	10.00
	1.880	2405.	2634.5	0.7	0.2	0.0	353.36	10.00
	1.900	745.	2631.7	0.0	0.0	0.0	34.01	35.00
*	1.900	1280.	2633.5	1.8	0.0	0.0	163.97	35.00
	1.900	1565.	2633.8	0.3	-0.1	0.0	205.62	35.00
	1.900	2395.	2634.5	0.7	-0.1	0.0	230.48	35.00
	1.900	745.	2631.9	0.0	0.2	0.0	34.88	10.00
	1.900	1280.	2633.6	1.7	0.1	0.0	189.81	10.00
	1.900	1565.	2633.8	0.3	0.1	0.0	206.71	10.00
	1.900	2395.	2634.5	0.7	0.1	0.0	231.75	10.00
	1.900	745.	2632.5	0.0	0.6	0.0	71.18	32.00
	1.900	1280.	2634.7	2.2	1.2	0.0	236.51	32.00
	1.900	1565.	2635.0	0.3	1.2	0.0	413.84	32.00
	1.900	2395.	2635.8	0.7	1.2	0.0	440.04	32.00

J09

J09

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1.900	745.	2632.5	0.0	-0.0	0.0	67.43	10.00
	1.900	1280.	2634.7	2.3	-0.0	0.0	236.36	10.00
	1.900	1565.	2635.0	0.3	-0.0	0.0	413.56	10.00
	1.900	2395.	2635.8	0.7	-0.0	0.0	439.55	10.00
*	2.170	705.	2666.5	0.0	34.0	0.0	29.11	1370.00
*	2.170	1200.	2667.7	1.2	33.0	0.0	34.98	1370.00
*	2.170	1470.	2668.3	0.6	33.2	0.0	37.67	1370.00
*	2.170	2240.	2669.6	1.3	33.8	0.0	43.99	1370.00
*	2.180	705.	2668.0	0.0	1.5	0.0	29.15	60.00
*	2.180	1200.	2669.2	1.2	1.5	0.0	35.09	60.00
*	2.180	1470.	2669.8	0.5	1.5	0.0	37.74	60.00
*	2.180	2240.	2671.1	1.3	1.5	0.0	44.01	60.00
*	2.180	705.	2668.4	0.0	0.4	0.0	31.13	12.00
*	2.180	1200.	2671.6	3.2	2.4	0.0	46.67	12.00
*	2.180	1470.	2672.4	0.8	2.7	0.0	50.55	12.00
*	2.180	2240.	2673.1	0.7	2.1	0.0	172.86	12.00
	2.180	705.	2668.9	0.0	0.5	0.0	33.51	15.00
	2.180	1200.	2671.7	2.8	0.1	0.0	47.01	15.00
	2.180	1470.	2672.5	0.8	0.1	0.0	50.89	15.00
	2.180	2240.	2673.3	0.8	0.2	0.0	173.10	15.00
*	2.210	700.	2671.4	0.0	2.5	0.0	48.07	35.00
*	2.210	1195.	2672.5	1.1	0.8	0.0	64.00	35.00
*	2.210	1460.	2673.0	0.5	0.5	0.0	70.83	35.00
*	2.210	2225.	2674.3	1.3	1.0	0.0	91.50	35.00
	2.210	700.	2673.1	0.0	1.7	0.0	27.00	80.00
	2.210	1195.	2674.2	1.1	1.7	0.0	27.00	80.00
	2.210	1460.	2674.6	0.4	1.7	0.0	27.00	80.00
	2.210	2225.	2676.3	1.7	2.1	0.0	187.59	80.00
	2.210	700.	2673.1	0.0	0.1	0.0	27.00	39.00
	2.210	1195.	2675.1	2.0	0.9	0.0	27.00	39.00
	2.210	1460.	2676.6	1.5	2.0	0.0	201.00	39.00
	2.210	2225.	2678.3	1.6	1.9	0.0	303.69	39.00
*	2.210	700.	2673.4	0.0	0.2	0.0	47.95	20.00
	2.210	1195.	2675.1	1.7	-0.1	0.0	71.95	20.00
	2.210	1460.	2676.4	1.3	-0.2	0.0	93.83	20.00
	2.210	2225.	2678.0	1.6	-0.3	0.0	169.03	20.00
	2.290	685.	2681.6	0.0	8.3	0.0	48.70	380.00
*	2.290	1170.	2682.3	0.7	7.3	0.0	52.21	380.00
*	2.290	1430.	2682.8	0.5	6.4	0.0	54.48	380.00
*	2.290	2180.	2683.8	1.1	5.9	0.0	59.53	380.00

SUMMARY OF ERRORS

CAUTION SECNO= 0.080 PROFILE= 2 HYDRAULIC JUMP D.S.
CAUTION SECNO= 0.080 PROFILE= 3 HYDRAULIC JUMP D.S.

K09

K09

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 CAUTION  SECNO=    0.080  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.080  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.080  PROFILE= 3
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    0.080  PROFILE= 3
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    0.080  PROFILE= 4  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.080  PROFILE= 4
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    0.080  PROFILE= 4
  20 TRIALS ATTEMPTED TO BALANCE WSEL

 CAUTION  SECNO=    0.160  PROFILE= 3  HYDRAULIC JUMP D.S.

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 CAUTION  SECNO=    0.260  PROFILE= 1
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 CAUTION  SECNO=    0.260  PROFILE= 1
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 CAUTION  SECNO=    0.260  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.260  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.260  PROFILE= 4  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    0.270  PROFILE= 2  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    0.280  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.280  PROFILE= 1
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 CAUTION  SECNO=    0.280  PROFILE= 1
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 CAUTION  SECNO=    0.280  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.280  PROFILE= 2
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 CAUTION  SECNO=    0.280  PROFILE= 2
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 CAUTION  SECNO=    0.280  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.280  PROFILE= 3
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 CAUTION  SECNO=    0.280  PROFILE= 3
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 CAUTION  SECNO=    0.280  PROFILE= 4  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.280  PROFILE= 4
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 CAUTION  SECNO=    0.280  PROFILE= 4
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 CAUTION  SECNO=    0.420  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.420  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.420  PROFILE= 4  CRITICAL DEPTH ASSUMED

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 CAUTION  SECNO=    0.430  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.430  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.430  PROFILE= 4  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    0.480  PROFILE= 2  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    0.480  PROFILE= 1  HYDRAULIC JUMP D.S.
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L09

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 CAUTION  SECNO=    0.480  PROFILE= 3  HYDRAULIC JUMP D.S.
 CAUTION  SECNO=    0.480  PROFILE= 4  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    0.480  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.480  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    0.480  PROFILE= 1
  20 TRIALS ATTEMPTED TO BALANCE WSEL

 CAUTION  SECNO=    0.580  PROFILE= 1  HYDRAULIC JUMP D.S.
 CAUTION  SECNO=    0.580  PROFILE= 2  HYDRAULIC JUMP D.S.
 CAUTION  SECNO=    0.580  PROFILE= 3  HYDRAULIC JUMP D.S.
 CAUTION  SECNO=    0.580  PROFILE= 4  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    0.580  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.580  PROFILE= 1
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 CAUTION  SECNO=    0.580  PROFILE= 1
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 CAUTION  SECNO=    0.690  PROFILE= 4  CRITICAL DEPTH ASSUMED

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 CAUTION  SECNO=    0.700  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.700  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.700  PROFILE= 4  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    0.720  PROFILE= 4  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    0.720  PROFILE= 2  HYDRAULIC JUMP D.S.

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 CAUTION  SECNO=    0.810  PROFILE= 2  HYDRAULIC JUMP D.S.
 CAUTION  SECNO=    0.810  PROFILE= 3  HYDRAULIC JUMP D.S.

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 CAUTION  SECNO=    0.910  PROFILE= 3  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.910  PROFILE= 4  CRITICAL DEPTH ASSUMED

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 CAUTION  SECNO=    0.920  PROFILE= 2  HYDRAULIC JUMP D.S.
 CAUTION  SECNO=    0.920  PROFILE= 3  HYDRAULIC JUMP D.S.

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 CAUTION  SECNO=    1.250  PROFILE= 3  CRITICAL DEPTH ASSUMED
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 CAUTION  SECNO=    1.250  PROFILE= 4
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 CAUTION  SECNO=    1.280  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.280  PROFILE= 1
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 PROBABLE MINIMUM SPECIFIC ENERGY
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 PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION  SECNO=    1.280  PROFILE= 2
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.280  PROFILE= 2
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    1.280  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.280  PROFILE= 3
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.280  PROFILE= 3
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    1.280  PROFILE= 4  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.280  PROFILE= 4
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.280  PROFILE= 4
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CAUTION  SECNO=    1.590  PROFILE= 2  CRITICAL DEPTH ASSUMED
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CAUTION  SECNO=    1.590  PROFILE= 4  CRITICAL DEPTH ASSUMED

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CAUTION  SECNO=    1.600  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.600  PROFILE= 2
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CAUTION  SECNO=    1.600  PROFILE= 2
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CAUTION  SECNO=    1.600  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.600  PROFILE= 3
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.600  PROFILE= 3
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CAUTION  SECNO=    1.600  PROFILE= 4  CRITICAL DEPTH ASSUMED
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CAUTION  SECNO=    1.600  PROFILE= 4
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=    1.870  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.870  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.870  PROFILE= 4  CRITICAL DEPTH ASSUMED

CAUTION  SECNO=    1.880  PROFILE= 1  CRITICAL DEPTH ASSUMED
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CAUTION  SECNO=    1.880  PROFILE= 1
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CAUTION  SECNO=    1.880  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.880  PROFILE= 2
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.880  PROFILE= 2
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    1.880  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.880  PROFILE= 3
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 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.880  PROFILE= 3
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    1.880  PROFILE= 4  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.880  PROFILE= 4
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.880  PROFILE= 4
 20 TRIALS ATTEMPTED TO BALANCE WSEL

NOTE     SECNO=    1.900  PROFILE= 2  WSEL BASED ON X5 CARD

CAUTION  SECNO=    2.170  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.170  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.170  PROFILE= 2
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    2.170  PROFILE= 2
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    2.170  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.170  PROFILE= 3
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    2.170  PROFILE= 3
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    2.170  PROFILE= 4  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.170  PROFILE= 4
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    2.170  PROFILE= 4
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=    2.180  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.180  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.180  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.180  PROFILE= 4  CRITICAL DEPTH ASSUMED

CAUTION  SECNO=    2.180  PROFILE= 1  HYDRAULIC JUMP D.S.
CAUTION  SECNO=    2.180  PROFILE= 2  HYDRAULIC JUMP D.S.
CAUTION  SECNO=    2.180  PROFILE= 3  HYDRAULIC JUMP D.S.
CAUTION  SECNO=    2.180  PROFILE= 4  HYDRAULIC JUMP D.S.

CAUTION  SECNO=    2.210  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.210  PROFILE= 1
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CAUTION  SECNO=    2.210  PROFILE= 1
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    2.210  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.210  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.210  PROFILE= 4  CRITICAL DEPTH ASSUMED

CAUTION  SECNO=    2.210  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.210  PROFILE= 1
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    2.210  PROFILE= 1
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=    2.290  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.290  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    2.290  PROFILE= 3
 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    2.290  PROFILE= 3
 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=    2.290  PROFILE= 4  CRITICAL DEPTH ASSUMED
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B10

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 CAUTION  SECNO=     2.290  PROFILE= 4
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=     2.290  PROFILE= 4
  20 TRIALS ATTEMPTED TO BALANCE WSEL
```

C10

AYLES CREEK

YANCEY CO NC FEMA STUDY

	500 YR FLOOD		100 YR FLOOD		50 YR FLOOD		10 YR FLOOD	
MILE	Q	ELEV	Q	ELEV	Q	ELEV	Q	ELEV
0.030	3425.	2457.5	2220.	2455.9	1805.	2455.1	1045.	2453.0
0.030	3425.	2459.3	2220.	2457.5	1805.	2456.6	1045.	2454.0
0.080	3395.	2460.0	2200.	2458.4	1790.	2457.9	1035.	2456.5
0.080	3395.	2461.2	2200.	2460.2	1790.	2459.8	1035.	2458.8
0.150	3350.	2465.1	2175.	2464.1	1770.	2463.7	1025.	2462.5
0.160	3350.	2465.7	2175.	2464.8	1770.	2464.5	1025.	2463.6
0.160	3350.	2466.1	2175.	2465.5	1770.	2465.3	1025.	2464.6
0.260	3290.	2472.9	2135.	2471.7	1740.	2471.2	1005.	2469.9
0.270	3290.	2474.4	2135.	2472.6	1740.	2472.2	1005.	2470.8
0.270	3290.	2476.0	2135.	2474.8	1740.	2474.3	1005.	2472.3
0.280	3290.	2477.0	2135.	2475.7	1740.	2475.2	1005.	2473.9
0.420	3205.	2494.7	2080.	2493.6	1695.	2493.3	980.	2492.2
0.430	3205.	2496.8	2080.	2495.6	1695.	2495.2	980.	2494.0
0.430	3205.	2498.9	2080.	2497.9	1695.	2497.5	980.	2495.7
0.480	3175.	2499.7	2060.	2498.6	1680.	2498.1	975.	2496.8
0.480	3175.	2503.5	2060.	2502.4	1680.	2501.8	975.	2499.1
0.570	3120.	2509.4	2025.	2507.9	1650.	2507.4	960.	2507.1
0.580	3120.	2511.2	2025.	2509.7	1650.	2509.1	960.	2507.9
0.580	3120.	2513.6	2025.	2512.3	1650.	2511.3	960.	2509.1
0.690	3055.	2522.1	1985.	2520.9	1620.	2520.4	940.	2519.8
0.700	3055.	2524.2	1985.	2523.0	1620.	2522.5	940.	2520.9
0.700	3055.	2524.4	1985.	2523.7	1620.	2523.4	940.	2522.5
0.720	3045.	2525.3	1980.	2524.1	1610.	2523.8	935.	2522.8
0.720	3045.	2525.8	1980.	2525.4	1610.	2525.1	935.	2524.2
0.800	2995.	2532.7	1945.	2530.5	1585.	2529.7	920.	2527.8
0.810	2995.	2533.9	1945.	2531.9	1585.	2531.1	920.	2529.4

D10

0.810	2995.	2535.3	1945.	2534.3	1585.	2533.8	920.	2532.7
0.910	2935.	2538.7	1910.	2537.8	1555.	2536.8	905.	2535.2
0.920	2935.	2539.7	1910.	2538.8	1555.	2538.5	905.	2536.7
0.920	2935.	2539.9	1910.	2538.8	1555.	2538.5	905.	2537.2
1.250	2750.	2560.8	1795.	2560.2	1465.	2560.0	850.	2558.4
1.280	2735.	2567.3	1785.	2566.8	1455.	2566.6	845.	2564.6
1.590	2565.	2592.6	1675.	2591.1	1365.	2590.5	795.	2590.1
1.590	2565.	2594.8	1675.	2592.8	1365.	2592.1	795.	2590.7
1.600	2565.	2595.0	1675.	2593.6	1365.	2593.1	795.	2592.0
1.870	2405.	2628.4	1575.	2627.5	1285.	2626.7	750.	2625.6
1.880	2405.	2632.8	1575.	2632.1	1285.	2631.8	750.	2629.7
1.880	2405.	2634.5	1575.	2633.8	1285.	2633.5	750.	2631.7
1.900	2395.	2634.5	1565.	2633.8	1280.	2633.5	745.	2631.7
1.900	2395.	2635.8	1565.	2635.0	1280.	2634.7	745.	2632.5
2.170	2240.	2669.6	1470.	2668.3	1200.	2667.7	705.	2666.5
2.180	2240.	2671.1	1470.	2669.8	1200.	2669.2	705.	2668.0
2.180	2240.	2673.3	1470.	2672.5	1200.	2671.7	705.	2668.9
2.210	2225.	2674.3	1460.	2673.0	1195.	2672.5	700.	2671.4
2.210	2225.	2678.0	1460.	2676.4	1195.	2675.1	700.	2673.4
2.290	2180.	2683.8	1430.	2682.8	1170.	2682.3	685.	2681.6

THIS RUN EXECUTED 11/11/81 7:49:00

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
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T1      YANCEY CO NC FEMA STUDY          RAM 1-30-81 AYLESF1                          5
T2      100 YR FLOOD                     GD HCDQ113                                   10
T3      AYLES CREEK                      100 YR FLOODWAY                              15

J1  ICHECK    INQ    NINV    IDIR    STRT  METRIC   HVINS      Q      WSEL     FQ
          0.     4.      0.      0. 0.00884      0.     0.0       0.    0.0     0.0      20

J2  NPROF   IPLOT   PRFVS   XSECV   XSECH      FN   ALLDC     IBW  CHNIM ITRACE
          0.      0.     -1.      0.      0.    0.0     0.0      0.     0.      0.      25

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

       110.00    0.0  200.00     0.0     0.0     0.0     0.0     0.0     0.0     0.0      30

   QT      5.  1045.  1805.  2220.  3425.  2220.      0.      0.      0.      0.      35
   NC  0.070  0.070  0.045    0.1    0.5                                                 40
   ET      0.   0.0    0.0    0.0    0.0    7.11  610.00  665.00     0.0     0.0      45


   X1   0.03    22.   614.   644.     0.     0.      0.     0.0     0.0      0.      50
   GR 2466.5   500.  2465.0  520.  2463.4   534.  2459.6   543.  2459.8   551.      55
   GR 2460.5   554.  2455.0  562.  2455.9   568.  2455.8   590.  2480.0   590.      60
   GR 2480.0   610.  2455.5  610.  2455.5   614.  2447.6   614.  2447.0   623.      65
   GR 2447.6   632.  2451.0  640.  2452.0   644.  2455.2   644.  2454.8   655.      70
   GR 2454.9   675.  2480.0  675.     0.0     0.     0.0     0.     0.0     0.      75
   ET      0.   0.0    0.0    0.0    0.0    7.11  610.00  665.00     0.0     0.      80


   X1   0.03     0.     0.     0.    40.    40.    40.     0.0     0.0     0.      85
   X3     10.    0.0    0.0    0.     0.0     0.     0.0  2455.0  2454.9             90
   SB   1.25    1.60   3.00     0.   24.00   0.90  150.00    0.0  2447.0  2447.0     95
   ET      0.   0.0    0.0    0.0    0.0    7.11  610.00  665.00     0.0     0.0     100


   X1   0.03     0.     0.     0.    32.    32.    32.     0.0     0.0     0.      105
   X2      0.    0.0    1.  2453.5  2455.4   0.0     0.     0.0     0.0     0.      110
   X3     10.    0.0    0.0    0.     0.0     0.     0.0  2455.5  2455.4             115
   BT   16.0   500.0  2466.5   0.0   520.0  2465.0    0.0   534.0  2463.4    0.0     120
   BT  543.0  2459.6    0.0  551.0  2459.8    0.0   554.0  2460.5    0.0   562.0     125
   BT 2455.0     0.0  568.0 2455.9     0.0  590.0  2455.8     0.0  590.0  2480.0     130
   BT    0.0   610.0  2480.0   0.0   610.0  2455.5    0.0   614.0  2455.5    0.0     135
   BT  655.0  2455.4    0.0  675.0  2455.4    0.0   675.0  2480.0    0.0     0.0     140
   ET      0.   0.0    0.0    0.0    0.0    7.11  610.00  665.00     0.0     0.0     145


   X1   0.03    23.   614.   644.    10.    10.    10.     0.0     0.0     0.      150
   GR 2466.5   500.  2465.0  520.  2463.4   534.  2459.6   543.  2459.8   551.      155
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GR 2466.5 500. [illegible] 520. 2465.4 [illegible] [illegible] [illegible] [illegible]

B01

GR	2460.5	554.	2455.0	562.	2455.9	568.	2455.8	590.	2480.0	590.	160
GR	2480.0	610.	2455.5	610.	2455.5	614.	2449.0	614.	2448.4	623.	165
GR	2449.1	632.	2452.6	640.	2453.5	644.	2455.2	644.	2454.8	655.	170
GR	2454.9	675.	2455.5	700.	2455.7	725.	2456.6	741.	2469.9	773.	175
QT	5.	1035.	1790.	2200.	3395.	2200.	0.	0.	0.	0.	180
NC	0.100	0.070	0.045	0.0	0.0						185
ET	0.	0.0	0.0	0.0	0.0	7.11	325.00	475.00	0.0	0.0	190
X1	0.08	20.	364.	400.	200.	200.	200.	0.0	0.0	0.	195
GR	2473.3	100.	2465.4	119.	2465.2	132.	2463.7	183.	2459.1	208.	200
GR	2457.1	253.	2456.2	364.	2452.5	369.	2451.7	375.	2452.5	382.	205
GR	2452.7	392.	2452.7	398.	2454.7	400.	2457.0	419.	2455.7	440.	210
GR	2457.4	453.	2457.5	472.	2456.4	476.	2460.0	512.	2463.7	523.	215
ET	0.	0.0	0.0	0.0	0.0	7.11	325.00	475.00	0.0	0.0	220
X1	0.08	20.	364.	400.	80.	80.	80.	0.0	0.0	0.	225
GR	2473.3	100.	2465.4	119.	2465.2	132.	2463.7	183.	2459.1	208.	230
GR	2457.1	253.	2456.2	364.	2452.5	369.	2451.7	375.	2452.5	382.	235
GR	2452.7	392.	2452.7	398.	2454.7	400.	2457.0	419.	2455.7	440.	240
GR	2457.4	453.	2457.5	472.	2456.4	476.	2460.0	512.	2463.7	523.	245
SB	1.25	1.60	3.00	0.	17.00	0.30	90.00	0.0	2451.7	2451.7	250
ET	0.	0.0	0.0	0.0	0.0	7.11	325.00	475.00	0.0	0.0	255
X1	0.08	0.	0.	0.	10.	10.	10.	0.0	0.0	0.	260
X2	0.	0.0	1.	2457.1	2457.7	0.0	0.	0.0	0.0	0.	265
BT	12.0	100.0	2473.3	0.0	119.0	2465.4	0.0	132.0	2465.2	0.0	270
BT	183.0	2463.7	0.0	208.0	2459.1	0.0	240.0	2457.7	0.0	355.0	275
BT	2459.4	0.0	385.0	2459.5	0.0	400.0	2459.5	0.0	503.0	2459.2	280
BT	0.0	512.0	2460.0	0.0	523.0	2463.7	0.0	0.0	0.0	0.0	285
NC	0.140	0.140	0.045	0.0	0.0						290
ET	0.	0.0	0.0	0.0	0.0	7.11	325.00	475.00	0.0	0.0	295
X1	0.08	20.	364.	400.	20.	20.	20.	0.0	2.30	0.	300
GR	2473.3	100.	2465.4	119.	2465.2	132.	2463.7	183.	2459.1	208.	305
GR	2457.1	253.	2456.2	364.	2452.5	369.	2451.7	375.	2452.5	382.	310
GR	2452.7	392.	2452.7	398.	2454.7	400.	2457.0	419.	2455.7	440.	315
GR	2457.4	453.	2457.5	472.	2456.4	476.	2460.0	512.	2463.7	523.	320
QT	5.	1025.	1770.	2175.	3350.	2175.	0.	0.	0.	0.	325
NC	0.090	0.090	0.055	0.0	0.8						330
ET	0.	0.0	0.0	0.0	0.0	7.11	425.00	575.00	0.0	0.0	335
X1	0.15	21.	505.	543.	300.	300.	300.	0.0	-0.70	0.	340
GR	2479.5	100.	2467.9	146.	2467.4	175.	2466.9	218.	2463.8	417.	345
GR	2463.8	442.	2463.3	455.	2462.9	480.	2462.5	505.	2457.9	530.	350
GR	2457.9	535.	2459.3	538.	2462.3	543.	2463.5	588.	2466.1	602.	355
GR	2465.9	610.	2469.6	621.	2471.0	648.	2470.0	668.	2473.7	700.	360
GR	2480.0	736.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	365
NC	0.0	0.0	0.0	0.0	0.5						370
ET	0.	0.0	0.0	0.0	0.0	7.11	425.00	575.00	0.0	0.0	375
X1	0.16	0.	0.	0.	60.	60.	60.	0.0	0.70	0.	380
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2463.3	2463.7		385
SB	1.25	1.60	3.00	0.	22.00	0.30	100.00	0.0	2457.9	2457.9	390
ET	0.	0.0	0.0	0.0	0.0	7.11	425.00	575.00	0.0	0.0	395

C01

C01

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X1   0.16     0.      0.      0.     31.     31.     31.    0.0     0.0      0.    400
X2     0.    0.0      1.   2462.5  2463.8   0.0      0.    0.0     0.0      0.    405
X3    10.    0.0     0.0      0.     0.0     0.      0.0  2463.8  2464.2           410
BT    18.0  100.0  2479.5    0.0   146.0  2467.9     0.0   175.0  2467.4    0.0    415
BT   218.0 2466.9    0.0   417.0  2463.8   0.0     442.0 2463.8    0.0    516.0  420
BT  2464.3    0.0   516.0  2465.7    0.0   543.0  2465.5    0.0   543.0  2464.2  425
BT     0.0  595.0  2464.8    0.0   602.0  2466.1     0.0   610.0  2465.9    0.0    430
BT   621.0 2469.6    0.0   648.0  2471.0   0.0     668.0 2470.0    0.0    700.0  435
BT  2473.7    0.0   736.0  2480.0    0.0   0.0       0.0    0.0     0.0      0.    440
NC   0.100  0.090   0.045    0.0     0.0                                          445
ET     0.    0.0     0.0      0.0     0.0   7.11   425.00 575.00    0.0      0.    450

X1   0.16     21.    505.    543.    15.     15.     15.    0.0     0.0      0.    455
GR  2479.5    100.  2467.9   146.  2467.4   175.   2466.9   218.  2463.8   417.   460
GR  2463.8    442.  2463.3   455.  2462.9   480.   2462.5   505.  2458.6   527.   465
GR  2457.9    535.  2459.3   538.  2462.3   543.   2463.5   588.  2466.1   602.   470
GR  2465.9    610.  2469.6   621.  2471.0   648.   2470.0   668.  2473.7   700.   475
GR  2480.0    736.    0.0      0.     0.0     0.      0.0     0.     0.0      0.    480
QT       5.  1005.   1740.   2135.  3290.  2135.       0.     0.      0.       0.  485
NC   0.100  0.130   0.050    0.0     0.8                                          490
ET     0.    0.0     0.0      0.0     0.0   7.11    50.00 110.00    0.0      0.    495

X1   0.26     14.     60.     92.    495.    495.    495.    0.0    -0.30     0.    500
GR  2494.1      0.  2471.2    45.  2468.7    60.   2466.8    71.  2466.3    81.   505
GR  2466.9     85.  2467.7    92.  2471.1   123.   2475.3   143.  2476.8   147.   510
GR  2476.8    153.  2475.3   156.  2490.9   176.   2491.0   198.    0.0      0.    515
ET     0.    0.0     0.0      0.0     0.0   7.11    50.00 110.00    0.0      0.    520

X1   0.27     0.      0.      0.     40.     40.     40.    0.0     0.30     0.    525
X3    10.    0.0     0.0      0.     0.0     0.      0.0  2472.8  2471.7           530
SB    1.25   1.60    3.00     0.    21.00    0.10  115.00    0.0   2466.3  2466.3  535
ET     0.    0.0     0.0      0.0     0.0   7.11    50.00 110.00    0.0      0.    540

X1   0.27     0.      0.      0.     10.     10.     10.    0.0     0.0      0.    545
X2     0.    0.0      1.   2471.8  2472.2   0.0      0.    0.0     0.0      0.    550
X3    10.    0.0     0.0      0.     0.0     0.      0.0  2473.3  2472.2           555
BT    13.0    0.0  2494.1    0.0    40.0  2474.0     0.0    61.0  2473.1    0.0    560
BT    61.0 2473.5    0.0    93.0  2472.8   0.0      93.0  2472.2    0.0    133.0  565
BT  2473.3    0.0   143.0  2475.3    0.0   147.0   2476.8    0.0   153.0  2476.8  570
BT     0.0  156.0  2475.3    0.0   176.0  2490.9     0.0   198.0  2491.0    0.0    575
NC   0.150  0.150   0.055    0.0     0.0                                          580
ET     0.    0.0     0.0      0.0     0.0   7.11    50.00 110.00    0.0      0.    585

X1   0.28     0.      0.      0.     10.     10.     10.    0.0     3.70     0.    590
QT       5.  980.   1695.   2080.  3205.  2080.       0.     0.      0.       0.  595
NC   0.150  0.150   0.050    0.0     0.0                                          600
ET     0.    0.0     0.0      0.0     0.0   7.11   160.00 255.00    0.0      0.    605

X1   0.42    16.     160.    194.    750.    750.    750.    0.0    -2.00     0.    610
GR  2509.5   100.  2505.0   110.  2502.3   123.   2496.4   136.  2496.0   150.   615
GR  2495.5   160.  2489.3   173.  2489.5   180.   2489.5   183.  2493.2   194.   620
GR  2493.2   252.  2495.1   283.  2505.3   303.   2505.9   330.  2505.4   335.   625
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D01

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GR 2510.0   358.    0.0     0.    0.0     0.    0.0     0.    0.0     0.   630
ET     0.   0.0     0.0   0.0     0.0   7.11  160.00  255.00  0.0     0.0  635

X1    0.43    0.      0.      0.    60.     60.    60.     0.0   2.00    0.   640
X3      10.   0.0     0.0     0.    0.0     0.     0.0  2496.8 2494.7        645
SB    1.25    1.60    3.00    0.    20.00   0.01 108.00    0.0  2489.3 2489.3 650
ET       0.   0.0     0.0   0.0     0.0   7.11  160.00  255.00  0.0     0.0  655

X1    0.43    0.      0.      0.    10.     10.    10.     0.0   0.0     0.   660
X2       0.   0.0     1.   2494.7 2495.2   0.0     0.    0.0     0.0     0.   665
X3      10.   0.0     0.0     0.    0.0     0.     0.0  2497.3 2495.2        670
BT     9.0   100.0 2509.5     0.0   110.0 2505.0    0.0   123.0 2502.3    0.0  675
BT   133.0  2497.9    0.0   284.0 2495.2   0.0    303.0 2505.3    0.0   330.0 680
BT  2505.9    0.0   335.0  2505.4    0.0  358.0  2510.0    0.0     0.0     0.0 685
NC   0.150   0.100   0.050     0.0   0.0                                      690
ET       0.   0.0     0.0   0.0     0.0   7.11  160.00  255.00  0.0     0.0  695

X1    0.43     18.   160.    252.    15.     15.    15.     0.0   0.0     0.   700
GR  2512.0    100.  2507.5   110.  2504.8   123.  2498.9   136.  2498.5   150. 705
GR  2498.0    160.  2491.8   173.  2492.0   180.  2492.0   183.  2495.7   194. 710
GR  2491.8    205.  2491.6   228.  2495.7   252.  2497.6   283.  2507.8   303. 715
GR  2508.4    330.  2507.9   335.  2512.5   358.     0.0     0.     0.0     0.  720
QT       5.   975.  1680.   2060.  3175.  2060.      0.      0.      0.      0.  725
NC   0.150   0.100   0.055     0.0   0.8                                      730
ET       0.   0.0     0.0   0.0     0.0   7.11   40.00  100.00  0.0     0.0  735

X1    0.48     14.    40.    100.    145.    145.   145.     0.0   0.0     0.   740
GR  2517.8      0.  2504.3    30.  2500.3    40.  2493.0    53.  2492.7    58. 745
GR  2492.8     60.  2492.7    70.  2492.3    76.  2493.0    78.  2497.0   100. 750
GR  2500.0    116.  2500.0   142.  2504.7   247.  2514.2   265.     0.0     0.  755
NC   0.0      0.0     0.0     0.0   0.5                                      760
ET       0.   0.0     0.0   0.0     0.0   7.11   40.00  100.00  0.0     0.0  765

X1    0.48     13.    60.     78.    80.     80.    80.     0.0   0.0     0.   770
X3      10.   0.0     0.0     0.    0.0     0.     0.0  2499.0 2499.0        775
GR  2517.8      0.  2504.3    30.  2500.3    40.  2493.0    53.  2492.7    58. 780
GR  2492.8     60.  2492.7    70.  2492.3    76.  2493.0    78.  2500.0   116. 785
GR  2500.0    142.  2504.7   247.  2514.2   265.     0.0     0.     0.0     0.  790
SB    1.25    1.60    3.00    0.    18.00   0.90 115.00     0.0  2492.3 2492.3 795
ET       0.   0.0     0.0   0.0     0.0   7.11   40.00  100.00  0.0     0.0  800

X1    0.48     0.      0.      0.    10.     10.    10.     0.0   0.0     0.   805
X2       0.   0.0     1.   2499.0 2499.8   0.0     0.    0.0     0.0     0.   810
X3      10.   0.0     0.0     0.    0.0     0.     0.0  2499.8 2501.0        815
BT     8.0     0.0 2517.8     0.0   30.0  2504.3    0.0    40.0 2500.3    0.0  820
BT    41.0  2499.8    0.0    50.0 2500.0   0.0     80.0 2501.0     0.0   248.0 825
BT  2505.0     0.0   265.0  2514.2    0.0   0.0     0.0     0.0     0.0     0.0 830
ET       0.   0.0     0.0   0.0     0.0   7.11   40.00  100.00  0.0     0.0  835

X1    0.48     14.    40.    100.    20.     20.    20.     0.0   3.20    0.   840
GR  2517.8      0.  2504.3    30.  2500.3    40.  2493.0    53.  2492.7    58. 845
GR  2492.8     60.  2492.7    70.  2492.3    76.  2493.0    78.  2497.0   100. 850
GR  2500.0    11.   2500.0   142.  2504.7   247.  2514.2   265.     0.0     0.  855
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E01

E01

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QT      5.    960.   1650.   2025.   3120.   2025.      0.      0.      0.      0.    860
NC  0.160   0.160   0.055     0.0     0.8                                              865
ET      0.    0.0     0.0     0.0     0.0    7.11  200.00  245.00     0.0     0.0    870

X1   0.57     11.    201.    245.    440.    440.    440.     0.0   -0.30      0.    875
GR 2521.6    100.  2510.6    154.  2509.5    178.  2507.1    201.  2502.3    216.    880
GR 2502.6    227.  2502.3    230.  2503.0    236.  2507.5    245.  2517.0    263.    885
GR 2522.6    276.     0.0      0.     0.0      0.     0.0      0.     0.0      0.    890
NC   0.0     0.0     0.0     0.0     0.5                                              895
ET     0.    0.0     0.0     0.0     0.0    7.11  200.00  245.00     0.0     0.0    900

X1   0.58      0.      0.      0.     80.     80.     80.     0.0    0.30      0.    905
X3     10.     0.0     0.0      0.     0.0      0.     0.0  2511.4  2511.5           910
SB   1.25    1.60    3.00      0.   10.00    3.10  155.00    1.78  2502.3  2502.3    915
ET     0.    0.0     0.0     0.0     0.0    7.11  200.00  245.00     0.0     0.0    920

X1   0.58      0.      0.      0.     10.     10.     10.     0.0     0.0      0.    925
X2     0.    0.0      1.  2509.9  2511.9     0.0      0.     0.0     0.0      0.    930
X3     10.     0.0     0.0      0.     0.0      0.     0.0  2511.9  2512.0           935
BT    6.0   100.0  2521.6     0.0   145.0  2512.4     0.0   180.0  2511.9     0.0    940
BT  253.0  2512.0     0.0   263.0  2517.0     0.0   276.0  2522.6     0.0     0.0    945
ET     0.    0.0     0.0     0.0     0.0    7.11  200.00  245.00     0.0     0.0    950

X1   0.58      0.      0.      0.     20.     20.     20.     0.0    3.00      0.    955
QT      5.    940.   1620.   1985.   3055.   1985.      0.      0.      0.      0.    960
NC  0.150   0.150   0.060     0.0     0.8                                              965
ET     0.    0.0     0.0     0.0     0.0    7.11  190.00  280.00     0.0     0.0    970

X1   0.69     18.    250.    276.    550.    550.    550.     0.0     0.0      0.    975
GR 2537.0    100.  2523.1    137.  2519.3    185.  2519.4    190.  2519.0    195.    980
GR 2518.8    200.  2519.4    250.  2514.1    255.  2513.7    260.  2513.1    266.    985
GR 2517.5    276.  2529.4    292.  2529.1    295.  2531.2    320.  2530.2    323.    990
GR 2532.3    337.  2535.7    339.  2537.1    350.     0.0      0.     0.0      0.    995
ET     0.    0.0     0.0     0.0     0.0    7.11  190.00  280.00     0.0     0.0   1000

X1   0.70     18.    250.    276.     40.     40.     40.     0.0     0.0      0.   1005
GR 2539.5    100.  2525.6    137.  2520.1    205.  2521.4    235.  2521.4    240.   1010
GR 2521.9    244.  2521.9    250.  2516.6    255.  2516.2    260.  2515.6    266.   1015
GR 2520.0    276.  2531.9    292.  2531.6    295.  2533.7    320.  2532.7    323.   1020
GR 2535.8    337.  2538.2    339.  2539.6    350.     0.0      0.     0.0      0.   1025
SB   1.25    1.00    3.00      0.    6.00   0.01    45.00     0.0  2515.6  2515.6   1030
ET     0.    0.0     0.0     0.0     0.0    7.11  190.00  280.00     0.0     0.0   1035

X1   0.70      0.      0.      0.     30.     30.     30.     0.0     0.0      0.   1040
X2     0.    0.0      1.  2523.1  2520.1     0.0      0.     0.0     0.0      0.   1045
BT    15.0   100.0  2539.5     0.0   137.0  2525.6     0.0   205.0  2520.1     0.0   1050
BT  235.0  2521.4     0.0   240.0  2521.4     0.0   254.0  2523.2     0.0   257.0   1055
BT 2524.0     0.0   288.0  2529.3     0.0   292.0  2531.9     0.0   295.0  2531.6   1060
BT    0.0   320.0  2533.7     0.0   323.0  2532.7     0.0   337.0  2535.8     0.0   1065
BT  339.0  2538.2     0.0   350.0  2539.6     0.0     0.0     0.0     0.0     0.0   1070
QT      5.    935.   1610.   1980.   3045.   1980.      0.      0.      0.      0.   1075
NC  0.130   0.130   0.045     0.0     0.0                                              1080
ET     0.    0.0     0.0     0.0     0.0    7.11   75.00  135.00     0.0     0.0   1085
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F01

F01

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X1   0.72     18.     89.    121.     40.     40.     40.    0.0     0.0      0.   1090
X3     10.    0.0     0.0     0.     0.0      0.     0.0 2521.6  2522.1           1095
GR 2540.3     34.  2524.5     68.  2523.1     75.  2523.0    86.  2523.5     89.  1100
GR 2516.8     98.  2516.8    100.  2516.6    105.  2516.9   113.  2518.6    115.  1105
GR 2522.7    121.  2523.8    137.  2523.6    143.  2534.4   155.  2535.3    160.  1110
GR 2535.0    180.  2534.2    182.  2540.2    186.     0.0     0.     0.0      0.  1115
SB   1.25    1.60    3.00     0.    15.00   0.10   55.00    0.0  2516.6  2516.6  1120
ET     0.     0.0     0.0     0.0     0.0    7.11   75.00 135.00    0.0      0.  1125

X1   0.72       0.      0.      0.     10.     10.     10.    0.0     0.0      0.  1130
X2     0.     0.0      1.  2520.3  2522.1    0.0      0.    0.0     0.0      0.  1135
X3     10.    0.0     0.0     0.     0.0      0.     0.0 2522.1  2522.6           1140
BT   14.0    34.0  2540.3     0.0    68.0  2524.5     0.0   75.0  2523.1     0.0  1145
BT   86.0  2523.0     0.0    89.0  2523.5     0.0    90.0 2522.1     0.0   121.0  1150
BT 2522.7     0.0   137.0  2523.8     0.0   143.0  2523.6    0.0   155.0  2534.4  1155
BT    0.0   160.0  2535.3     0.0   180.0  2535.0     0.0  182.0  2534.2     0.0  1160
BT  186.0  2540.2     0.0     0.0     0.0     0.0     0.0    0.0     0.0     0.0  1165
NC  0.130   0.150   0.045     0.0     0.0                                         1170
ET     0.     0.0     0.0     0.0     0.0    7.11   75.00 135.00    0.0      0.  1175

X1   0.72     16.     89.    121.     10.     10.     10.    0.0     0.0      0.  1180
GR 2540.3     34.  2524.5     68.  2523.1     75.  2523.0    86.  2523.5     89.  1185
GR 2518.5     91.  2518.2    103.  2518.6    115.  2522.7   121.  2523.8    137.  1190
GR 2523.6    143.  2534.4    155.  2535.3    160.  2535.0   180.  2534.2    182.  1195
GR 2540.2    186.     0.0     0.     0.0      0.     0.0     0.    0.0      0.  1200
QT     5.    920.  1585.   1945.  2995.   1945.      0.      0.     0.      0.  1205
NC  0.150   0.150   0.055     0.0     0.8                                         1210
ET     0.     0.0     0.0     0.0     0.0    7.11   65.00 135.00    0.0      0.  1215

X1   0.80     11.     93.    135.    490.    490.    490.    0.0    1.00      0.  1220
GR 2550.7      0.  2535.9     11.  2531.2     53.  2529.8    76.  2529.2     93.  1225
GR 2524.1    101.  2523.5    110.  2522.8    120.  2522.5   124.  2529.5    135.  1230
GR 2545.8    163.     0.0     0.     0.0      0.     0.0     0.    0.0      0.  1235
NC   0.0     0.0     0.0     0.0     0.5                                         1240
ET     0.     0.0     0.0     0.0     0.0    7.11   65.00 135.00    0.0      0.  1245

X1   0.81     11.     93.    135.     60.     60.     60.    0.0     0.0      0.  1250
GR 2550.7      0.  2535.9     11.  2531.2     53.  2529.8    76.  2529.2     93.  1255
GR 2524.1    101.  2523.5    110.  2522.8    120.  2522.5   124.  2529.5    135.  1260
GR 2545.8    163.     0.0     0.     0.0      0.     0.0     0.    0.0      0.  1265
SB   1.25    1.60    3.00     0.    10.00   0.30   60.00    0.0  2522.5  2522.5  1270
ET     0.     0.0     0.0     0.0     0.0    7.11   65.00 135.00    0.0      0.  1275

X1   0.81       0.      0.      0.     10.     10.     10.    0.0     0.0      0.  1280
X2     0.     0.0      1.  2528.7  2531.8    0.0      0.    0.0     0.0      0.  1285
BT     6.0    0.0  2550.7     0.0    11.0  2535.9     0.0   46.0  2532.0     0.0  1290
BT   110.0  2532.1     0.0   139.0  2531.8     0.0   163.0 2545.8     0.0      0.  1295
NC  0.110   0.090   0.045     0.0     0.0                                         1300
ET     0.     0.0     0.0     0.0     0.0    7.11   65.00 135.00    0.0      0.  1305

X1   0.81     11.     93.    135.     15.     15.     15.    0.0    2.30      0.  1310
GR 2550.7      0.  2535.9     11.  2531.2     53.  2529.8    76.  2529.2     93.  1315
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G01

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                                                                                 1320
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GR 2550.7      0.  2535.9     11.  2531.2     53.  2529.8     76.  2529.2     93.  1315
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G01

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GR 2524.1    101.  2523.5    110.  2522.8    120.  2522.5    124.  2529.5    135.  1320
GR 2545.8    163.     0.0      0.     0.0      0.     0.0      0.     0.0      0.  1325
QT       5.   905.  1555.   1910.  2935.   1910.      0.      0.      0.      0.  1330
NC   0.110  0.120  0.050     0.0    0.8                                            1335
ET       0.   0.0    0.0     0.0    0.0     7.11  230.00  300.00     0.0     0.0  1340

X1    0.91     22.   248.    288.   415.    415.    415.     0.0     0.0      0.  1345
GR 2553.5      0.  2546.3     27.  2543.5     63.  2540.9     71.  2541.4     76.  1350
GR 2541.3     81.  2540.2     86.  2539.6    100.  2537.3    108.  2536.5    208.  1355
GR 2537.2    248.  2531.3    263.  2531.3    278.  2536.4    288.  2539.0    360.  1360
GR 2538.7    367.  2544.2    382.  2545.6    400.  2547.5    409.  2547.3    427.  1365
GR 2546.5    432.  2553.4    448.     0.0      0.     0.0      0.     0.0      0.  1370
NC   0.0      0.0    0.0     0.0    0.5                                            1375
ET       0.   0.0    0.0     0.0    0.0     7.11  230.00  300.00     0.0     0.0  1380

X1    0.92      0.     0.      0.    40.     40.     40.     0.0     0.0      0.  1385
X3      10.    0.0    0.0     0.    0.0      0.     0.0  2536.0  2535.9           1390
SB    1.25    1.60   3.00      0.   14.00   0.30   55.00     0.0  2531.3  2531.3  1395
ET       0.   0.0    0.0     0.0    0.0     7.11  230.00  300.00     0.0     0.0  1400

X1    0.92      0.     0.      0.    12.     12.     12.     0.0     0.0      0.  1405
X2       0.    0.0    1.   2535.3  2536.5   0.0      0.     0.0     0.0      0.  1410
X3      10.    0.0    0.0     0.    0.0      0.     0.0  2536.5  2536.4           1415
BT    23.0     0.0  2553.5    0.0   27.0   2546.3    0.0   63.0  2543.5    0.0   1420
BT    71.0  2540.9    0.0    76.0  2541.4    0.0    81.0  2541.3    0.0   86.0   1425
BT  2540.2     0.0  100.0   2539.6    0.0  108.0   2537.3    0.0  208.0  2536.5  1430
BT     0.0   248.0  2537.2    0.0   251.0  2536.3    0.0   268.0  2536.4    0.0   1435
BT   287.0  2536.0    0.0    288.0  2536.4    0.0    347.0  2538.5    0.0   374.0  1440
BT  2540.9     0.0  382.0   2544.2    0.0  400.0   2545.6    0.0  409.0  2547.5  1445
BT     0.0   427.0  2547.3    0.0   432.0  2546.5    0.0   448.0  2553.4    0.0   1450
NC   0.090  0.090  0.045     0.0    0.0                                            1455
ET       0.   0.0    0.0     0.0    0.0     7.11  230.00  300.00     0.0     0.0  1460

X1    0.92     25.   248.    288.   10.     10.     10.     0.0     0.0      0.  1465
GR 2553.5      0.  2546.3     27.  2543.5     63.  2540.9     71.  2541.4     76.  1470
GR 2541.3     81.  2540.2     86.  2539.6    100.  2537.3    108.  2536.5    208.  1475
GR 2537.2    248.  2533.5    258.  2534.6    261.  2532.9    269.  2532.6    276.  1480
GR 2533.4    282.  2536.4    288.  2539.0    360.  2538.7    367.  2544.2    382.  1485
GR 2545.6    400.  2547.5    409.  2547.3    427.  2546.5    432.  2553.4    448.  1490
QT       5.   850.  1465.   1795.  2750.   1795.      0.      0.      0.      0.  1495
NC   0.080  0.080  0.045     0.0    0.0                                            1500
ET       0.   0.0    0.0     0.0    0.0     7.11  410.00  450.00     0.0     0.0  1505

X1    1.25     20.   412.    440.  1760.   1760.   1760.     0.0   -6.60      0.  1510
GR 2581.8      0.  2570.9     32.  2571.1     36.  2571.1     42.  2570.2     49.  1515
GR 2567.7     82.  2565.3    182.  2565.5    295.  2566.1    402.  2566.1    412.  1520
GR 2561.0    419.  2560.4    421.  2560.5    425.  2560.2    431.  2561.0    435.  1525
GR 2566.5    440.  2566.5    475.  2571.8    481.  2574.6    581.  2581.9    712.  1530
QT       5.   845.  1455.   1785.  2735.   1785.      0.      0.      0.      0.  1535
ET       0.   0.0    0.0     0.0    0.0     7.11  410.00  450.00     0.0     0.0  1540

X1    1.28      0.     0.      0.   150.    150.    150.     0.0    6.60      0.  1545
QT       5.   795.  1365.   1675.  2565.   1675.      0.      0.      0.      0.  1550
NC   0.150  0.090  0.045     0.0    0.0                                            1555
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NC	0.150	0.090	0.045	0.0	0.0						1555

H01

ET	0.	0.0	0.0	0.0	0.0	7.11	55.00	100.00	0.0	0.0	1560
X1	1.59	14.	55.	100.	1690.	1690.	1690.	0.0	0.0	0.	1565
GR	2609.3	32.	2598.7	50.	2597.0	50.	2594.5	55.	2586.5	69.	1570
GR	2584.8	87.	2593.7	100.	2596.3	183.	2595.6	190.	2595.7	283.	1575
GR	2597.5	385.	2601.2	462.	2603.9	562.	2609.4	663.	0.0	0.	1580
ET	0.	0.0	0.0	0.0	0.0	7.11	55.00	100.00	0.0	0.0	1585
X1	1.59	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	1590
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2594.0	2594.0		1595
SB	1.25	1.60	3.00	0.	35.00	0.30	260.00	0.0	2584.8	2584.8	1600
ET	0.	0.0	0.0	0.0	0.0	7.11	55.00	100.00	0.0	0.0	1605
X1	1.59	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	1610
X2	0.	0.0	1.	2592.3	2594.5	0.0	0.	0.0	0.0	0.	1615
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2594.5	2594.5		1620
BT	11.0	32.0	2609.3	0.0	50.0	2598.7	0.0	50.0	2597.0	0.0	1625
BT	56.0	2593.5	0.0	183.0	2596.3	0.0	190.0	2595.6	0.0	283.0	1630
BT	2595.7	0.0	385.0	2597.5	0.0	462.0	2601.2	0.0	562.0	2603.9	1635
BT	0.0	663.0	2609.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1640
ET	0.	0.0	0.0	0.0	0.0	7.11	55.00	100.00	0.0	0.0	1645
X1	1.60	15.	55.	100.	10.	10.	10.	0.0	0.0	0.	1650
GR	2609.3	32.	2598.7	50.	2597.0	50.	2594.5	55.	2590.1	63.	1655
GR	2588.5	80.	2588.0	85.	2593.7	100.	2596.3	183.	2595.6	190.	1660
GR	2595.7	283.	2597.5	385.	2601.2	462.	2603.9	562.	2609.4	663.	1665
QT	5.	750.	1285.	1575.	2405.	1575.	0.	0.	0.	0.	1670
NC	0.150	0.150	0.050	0.0	0.0						1675
ET	0.	0.0	0.0	0.0	0.0	7.11	275.00	325.00	0.0	0.0	1680
X1	1.87	23.	278.	324.	1450.	1450.	1450.	0.0	0.0	0.	1685
GR	2641.5	0.	2633.8	15.	2628.0	24.	2627.3	29.	2627.3	36.	1690
GR	2627.3	40.	2627.3	56.	2627.3	105.	2626.2	248.	2627.8	278.	1695
GR	2622.9	283.	2622.3	292.	2621.5	295.	2622.0	300.	2626.9	324.	1700
GR	2627.6	357.	2631.2	378.	2634.0	435.	2635.3	441.	2636.0	450.	1705
GR	2636.2	483.	2640.7	551.	2642.9	556.	0.0	0.	0.0	0.	1710
ET	0.	0.0	0.0	0.0	0.0	7.11	275.00	325.00	0.0	0.0	1715
X1	1.88	25.	285.	306.	80.	80.	80.	0.0	0.0	0.	1720
GR	2645.6	0.	2637.9	15.	2632.1	24.	2631.4	29.	2631.4	36.	1725
GR	2631.4	40.	2631.4	56.	2631.4	105.	2630.3	248.	2631.9	278.	1730
GR	2627.0	283.	2626.9	285.	2626.4	292.	2625.6	295.	2626.1	300.	1735
GR	2627.2	306.	2631.0	324.	2631.7	357.	2635.3	378.	2638.1	435.	1740
GR	2639.4	441.	2640.1	450.	2640.3	483.	2644.8	551.	2647.0	556.	1745
SB	1.25	1.60	3.00	0.	21.00	0.01	80.00	0.0	2625.6	2625.6	1750
ET	0.	0.0	0.0	0.0	0.0	7.11	275.00	325.00	0.0	0.0	1755
X1	1.88	0.	0.	0.	16.	16.	16.	0.0	0.0	0.	1760
X2	0.	0.0	1.	2629.4	2631.5	0.0	0.	0.0	0.0	0.	1765
BT	15.0	0.0	2645.6	0.0	15.0	2637.9	0.0	19.0	2635.5	0.0	1770
BT	286.0	2632.4	0.0	325.0	2631.6	0.0	325.0	2631.8	0.0	348.0	1775
BT	2631.5	0.0	357.0	2631.7	0.0	378.0	2635.3	0.0	435.0	2638.1	1780
BT	0.0	441.0	2639.4	0.0	450.0	2640.1	0.0	483.0	2640.3	0.0	1785

```
BT   15.0     0.0  2645.6     0.0    15.0  2637.9     0.0    19.0  2633.3     0.0  1770
BT  286.0  2632.4     0.0   325.0  2631.6     0.0   325.0  2631.8     0.0   348.0  1775
BT 2631.5     0.0   357.0  2631.7     0.0   378.0  2635.3     0.0   435.0  2638.1  1780
BT    0.0   441.0  2639.4     0.0   450.0  2640.1     0.0   483.0  2640.3     0.0  1785
```

I01

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BT  551.0  2644.8     0.0   556.0  2647.0     0.0     0.0     0.0     0.0     0.0  1790
NC  0.080  0.080   0.045     0.0     0.0                                           1795
ET     0.    0.0     0.0     0.0     0.0    7.11  275.00  325.00     0.0     0.0  1800

X1   1.68     25.   278.    324.     10.     10.     10.     0.0     0.0      0.  1805
GR 2645.6      0.  2637.9     15.  2632.1     24.  2631.4     29.  2631.4     36.  1810
GR 2631.4     40.  2631.4     56.  2631.4    105.  2630.3    248.  2631.9    278.  1815
GR 2627.0    283.  2626.9    285.  2626.4    292.  2625.6    295.  2626.1    300.  1820
GR 2627.2    306.  2631.0    324.  2631.7    357.  2635.3    378.  2638.1    435.  1825
GR 2639.4    441.  2640.1    450.  2640.3    483.  2644.8    551.  2647.0    556.  1830
QT      5.   745.   1280.   1565.   2395.   1565.      0.      0.      0.      0.  1835
NC  0.100  0.100   0.055     0.0     0.8                                           1840
ET     0.    0.0     0.0     0.0     0.0    7.11  575.00  645.00     0.0     0.0  1845

X1   1.90     30.   605.    644.     35.     35.     35.     0.0     0.0      0.  1850
X5     -1.    0.0     0.00    0.0     0.0     0.0     0.0     0.0     0.0     0.0  1855
GR 2650.0      0.  2639.5     11.  2638.6     15.  2637.0     51.  2637.8     58.  1860
GR 2636.7    115.  2637.3    195.  2635.0    240.  2635.0    256.  2635.0    262.  1865
GR 2635.0    345.  2635.0    384.  2635.0    410.  2633.9    429.  2633.9    440.  1870
GR 2633.6    443.  2633.4    451.  2632.5    519.  2633.5    528.  2633.5    545.  1875
GR 2633.7    560.  2632.0    580.  2632.5    605.  2626.1    622.  2626.1    628.  1880
GR 2633.0    644.  2635.0    652.  2642.0    768.  2642.0    777.  2649.5    795.  1885
NC   0.0      0.0     0.045     0.0     0.5                                       1890
ET     0.    0.0     0.0     0.0     0.0    7.11  575.00  645.00     0.0     0.0  1895

X1   1.90      0.     0.      0.     10.     10.     10.     0.0     0.0      0.  1900
SB   1.25    1.60    3.00     0.     20.00   0.20  115.00    0.0  2626.1  2626.1  1905
ET     0.    0.0     0.0     0.0     0.0    7.11  575.00  645.00     0.0     0.0  1910

X1   1.90      0.     0.      0.     32.     32.     32.     0.0     0.0      0.  1915
X2     0.    0.0     1.   2631.9  2633.6     0.0     0.      0.0     0.0      0.  1920
BT    12.0     0.0  2650.0     0.0     4.0  2646.3     0.0   515.0  2634.1     0.0  1925
BT   615.0  2633.6     0.0   615.0  2635.0     0.0   640.0  2635.0     0.0   640.0  1930
BT  2633.8     0.0   648.0  2633.9     0.0   652.0  2635.0     0.0   768.0  2642.0  1935
BT     0.0   777.0  2642.0     0.0   795.0  2649.5     0.0     0.0     0.0     0.0  1940
NC  0.130  0.080   0.050     0.0     0.0                                           1945
ET     0.    0.0     0.0     0.0     0.0    7.11  575.00  645.00     0.0     0.0  1950

X1   1.90     32.   605.    644.     10.     10.     10.     0.0     0.0      0.  1955
GR 2650.0      0.  2639.5     11.  2638.6     15.  2637.0     51.  2637.8     58.  1960
GR 2636.7    115.  2637.3    195.  2635.0    240.  2635.0    256.  2635.0    262.  1965
GR 2635.0    345.  2635.0    384.  2635.0    410.  2633.9    429.  2633.9    440.  1970
GR 2633.6    443.  2633.4    451.  2632.5    519.  2633.5    528.  2633.5    545.  1975
GR 2633.7    560.  2632.0    580.  2632.5    605.  2628.7    614.  2628.3    620.  1980
GR 2628.4    625.  2628.3    633.  2633.0    644.  2635.0    652.  2642.0    768.  1985
GR 2642.0    777.  2649.5    795.     0.0      0.     0.0      0.     0.0      0.  1990
QT      5.   705.   1200.   1470.   2240.   1470.      0.      0.      0.      0.  1995
NC  0.130  0.150   0.045     0.0     0.0                                           2000
ET     0.    0.0     0.0     0.0     0.0    7.11  120.00  180.00     0.0     0.0  2005

X1   2.17     13.   121.    178.   1370.   1370.   1370.     0.0     0.0      0.  2010
GR 2690.0      1.  2671.3     1.   2671.3    40.  2671.3    115.  2671.3    121.  2015
GR 2662.6    150.  2662.6    158.  2663.0    161.  2674.4    178.  2677.8    275.  2020
GR 2679.3    338.  2679.4    390.  2680.6    434.     0.0      0.     0.0      0.  2025
```

X1	2.17	13.	121.	178.	1370.	1370.	1370.	0.0	0.0	0.	2010
GR	2690.0	1.	2671.3	1.	2671.3	40.	2671.3	115.	2671.3	121.	2015
GR	2662.6	150.	2662.6	158.	2663.0	161.	2674.4	178.	2677.8	275.	2020
GR	2679.3	338.	2679.4	390.	2680.6	434.	0.0	0.	0.0	0.	2025

J01

ET	0.	0.0	0.0	0.0	0.0	7.11	120.00	180.00	0.0	0.0	2030
X1	2.18	0.	0.	0.	60.	60.	60.	0.0	1.50	0.	2035
SB	1.25	1.60	3.00	0.	20.00	0.90	105.00	0.0	2664.1	2664.1	2040
ET	0.	0.0	0.0	0.0	0.0	7.11	120.00	180.00	0.0	0.0	2045
X1	2.18	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	2050
X2	0.	0.0	1.	2669.6	2671.0	0.0	0.	0.0	0.0	0.	2055
BT	12.0	1.0	2690.0	0.0	1.0	2672.8	0.0	40.0	2672.8	0.0	2060
BT	115.0	2672.8	0.0	121.0	2672.8	0.0	128.0	2671.0	0.0	173.0	2065
BT	2672.0	0.0	178.0	2675.9	0.0	275.0	2679.3	0.0	338.0	2680.8	2070
BT	0.0	390.0	2680.9	0.0	434.0	2682.1	0.0	0.0	0.0	0.0	2075
NC	0.130	0.100	0.045	0.0	0.0						2080
ET	0.	0.0	0.0	0.0	0.0	7.11	120.00	180.00	0.0	0.0	2085
X1	2.18	0.	0.	0.	15.	15.	15.	0.0	0.0	0.	2090
QT	5.	700.	1195.	1460.	2225.	1460.	0.	0.	0.	0.	2095
NC	0.150	0.120	0.055	0.0	0.8						2100
ET	0.	0.0	0.0	0.0	0.0	7.11	60.00	90.00	0.0	0.0	2105
X1	2.21	14.	63.	90.	35.	35.	35.	0.0	0.0	0.	2110
GR	2688.0	25.	2671.3	55.	2670.4	63.	2667.6	72.	2667.8	77.	2115
GR	2667.7	82.	2670.3	90.	2674.0	135.	2674.6	148.	2676.9	260.	2120
GR	2676.8	268.	2677.5	282.	2677.3	342.	2695.5	420.	0.0	0.	2125
NC	0.0	0.0	0.0	0.0	0.5						2130
ET	0.	0.0	0.0	0.0	0.0	7.11	60.00	90.00	0.0	0.0	2135
X1	2.21	0.	0.	0.	80.	80.	80.	0.0	0.0	0.	2140
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2675.0	2675.8		2145
SB	1.25	1.60	3.00	0.	25.00	0.70	148.00	0.0	2667.6	2667.6	2150
ET	0.	0.0	0.0	0.0	0.0	7.11	60.00	90.00	0.0	0.0	2155
X1	2.21	0.	0.	0.	39.	39.	39.	0.0	0.0	0.	2160
X2	0.	0.0	1.	2673.7	2675.5	0.0	0.	0.0	0.0	0.	2165
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2675.5	2676.3		2170
BT	8.0	25.0	2688.0	0.0	48.0	2675.5	0.0	59.0	2675.9	0.0	2175
BT	59.0	2677.5	0.0	100.0	2678.0	0.0	100.0	2676.3	0.0	352.0	2180
BT	2679.5	0.0	420.0	2695.5	0.0	0.0	0.0	0.0	0.0	0.0	2185
NC	0.150	0.150	0.050	0.0	0.0						2190
ET	0.	0.0	0.0	0.0	0.0	7.11	60.00	90.00	0.0	0.0	2195
X1	2.21	0.	0.	0.	20.	20.	20.	0.0	2.00	0.	2200
QT	5.	685.	1170.	1430.	2180.	1430.	0.	0.	0.	0.	2205
NC	0.150	0.130	0.050	0.0	0.0						2210
ET	0.	0.0	0.0	0.0	0.0	7.11	50.00	90.00	0.0	0.0	2215
X1	2.29	19.	54.	90.	380.	380.	380.	0.0	0.0	0.	2220
GR	2698.0	0.	2680.6	40.	2680.8	54.	2678.0	65.	2677.5	70.	2225
GR	2677.7	75.	2678.0	77.	2683.0	90.	2687.1	100.	2685.2	185.	2230
GR	2685.3	200.	2686.7	290.	2686.1	318.	2686.5	370.	2686.2	393.	2235
GR	2687.7	400.	2687.8	415.	2687.3	420.	2698.2	506.	0.0	0.	2240
EJ											2245

*PROF 1

CCHV= 0.100 CEHV= 0.500
*SECNO .030
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

AYLES CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.03	2220.	6.	2152.	62.	1.37	0	94.	
2455.91	2453.90	6.	226.	31.	0.50	11	2455.50	
8.91	0.0	0.95	9.54	1.97	0.0	2457.29	2455.20	
0.008849	0.0	0.070	0.045	0.070	0.0	0.0	560.67	
	2447.00	0.	0.	0.	68.	46.	575.00	0.

*SECNO .030

*** GR CARDS REPEATED

3265 DIVIDED FLOW

0.03	2220.	45.	2055.	121.	1.00	2	95.	
2456.61	0.0	30.	247.	53.	-0.37	0	2455.50	
9.61	0.0	1.47	8.33	2.27	0.29	2457.61	2455.20	
0.005985	0.044	0.070	0.045	0.070	0.04	-0.00	559.65	
	2447.00	40.	40.	40.	69.	46.	675.00	0.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BHP	BAREA	SS
	1.25	1.60	3.00	0.0	24.00	0.90	150.00	0.0
ELCHU	ELCHD							
2447.00	2447.00							

*SECNO .030

*** GR CARDS REPEATED

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2462.05	2457.77	0.16	1095.	1131.	150.	150.	2453.50

ELTRD
2455.40

0.03	2220.	91.	1958.	171.	0.75	3	96.

2457.27	0.0	53.	266.	74.	-0.25	0	2455.50

2457.27	0.0	53.	266.	74.	-0.25	0	2455.50	
10.27	0.0	1.71	7.35	2.33	0.41	2458.02	2455.20	
0.004207	0.044	0.070	0.045	0.070	0.0	-0.00	558.69	
	2447.00	32.	32.	32.	70.	46.	675.00	1.

*SECNO .030

3265 DIVIDED FLOW

0.03	2220.	115.	1613.	492.	0.58	2	165.	
2457.50	0.0	61.	229.	208.	-0.17	0	2455.50	
9.10	0.0	1.88	7.04	2.36	0.04	2458.08	2455.20	
0.004305	0.043	0.070	0.045	0.070	0.02	-0.00	558.36	
	2448.40	10.	10.	10.	71.	114.	743.17	1.

*SECNO .080

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.08	2200.	329.	1492.	379.	0.58	2	274.	
2458.44	0.0	219.	205.	163.	-0.01	0	2456.20	
6.74	0.0	1.50	7.27	2.32	0.94	2459.02	2454.70	
0.005143	0.044	0.100	0.045	0.070	0.00	-0.00	222.85	
	2451.70	200.	200.	200.	159.	114.	496.40	3.

*SECNO .080

0.08	2200.	410.	1339.	450.	0.35	2	292.	
2459.00	0.0	302.	225.	219.	-0.22	0	2456.20	
7.30	0.0	1.36	5.94	2.05	0.31	2459.35	2454.70	
0.003028	0.044	0.100	0.045	0.070	0.02	-0.00	210.18	
	2451.70	80.	80.	80.	172.	120.	502.03	4.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2458.93 ,NOT 2459.00
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	17.00	0.30	90.00	0.0
	ELCHU	ELCHD						
	2451.70	2451.70						

*SECNO .080

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2473.84	2461.41	0.0	1537.	664.	90.	90.	2457.10

ELTRD

2457.70

M01

```
 2457.70


    0.08     2200.      541.     1102.      557.      0.15         2     311.
 2460.20      0.0       493.      269.      349.     -0.21         0  2456.20
    8.51      0.0       1.10      4.10      1.60      1.00   2460.35  2454.70
0.001142     0.044     0.100     0.045     0.070      0.0      -0.00   201.99
           2451.70       10.       10.       10.      180.      131.   512.61        5.


*SECNO .080

3301 HV CHANGED MORE THAN HVINS

   AYLES CREEK                    100 YR FLOOD        11/11/81
  MILE      Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
  ELEV      CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
  DEPTH     WSELK     VLOB      VCH       VROB      HL        EG     LEFT/RIGHT
  SLOPE     WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
            ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST       VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    0.08     2200.      192.     1840.      167.      1.26        20     258.
 2460.25   2460.25      152.      188.      117.      1.11        19  2458.50
    6.25      0.0       1.26      9.81      1.43      0.05   2461.50  2457.00
0.010567     0.044     0.140     0.045     0.140      0.56     -0.00   233.93
           2454.00       20.       20.       20.      148.      109.   491.48        5.


CCHV=    0.100 CEHV=    0.800
*SECNO .150
    0.15     2175.      378.     1556.      241.      0.78         2     242.
 2464.10      0.0       169.      188.       90.     -0.47         0  2461.80
    6.90      0.0       2.24      8.26      2.67      3.33   2464.88  2461.60
0.011677     0.049     0.090     0.055     0.090      0.05     -0.00   352.54
           2457.20      300.      300.      300.      171.       71.   595.02        8.


CCHV=    0.100 CEHV=    0.500
*SECNO .160

*** GR CARDS REPEATED
   AYLES CREEK                    100 YR FLOOD        11/11/81
  MILE      Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
  ELEV      CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
  DEPTH     WSELK     VLOB      VCH       VROB      HL        EG     LEFT/RIGHT
  SLOPE     WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
            ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST       VOL

    0.16     2175.      376.     1558.      241.      0.79         2     242.
 2464.80      0.0       168.      188.       90.      0.01         0  2462.50
    6.90      0.0       2.24      8.29      2.67      0.70   2465.59  2462.30
0.011778     0.049     0.090     0.055     0.090      0.00     -0.00   353.03
           2457.90       60.       60.       60.      171.       71.   594.98        9.


SPECIAL BRIDGE
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5227 DOWNSTREAM ELEV IS   2464.01 ,NOT   2464.80
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA       SS
     1.25        1.60      3.00        0.0     22.00      0.30     100.00      0.0
   ELCHU     ELCHD
 2457.90   2457.90

*SECNO .160

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

     EGPRS      EGLWC         H3      QWEIR       QPR     BAREA     TAREA      ELLC
   2476.55    2466.38        0.0      1505.       671.      100.      100.   2462.50

     ELTRD
   2463.80


      0.16       2175.      539.      1346.      290.      0.40         3       292.
   2465.52        0.0       294.       215.      129.     -0.39         0   2462.50
      7.62        0.0       1.83       6.25      2.25      0.33   2465.91    2462.30
  0.005588      0.049      0.090      0.055     0.090       0.0     -0.00    306.76
              2457.90         31.        31.       31.      217.       75.    598.86        9.


*SECNO .160
      0.18       2175.      448.      1461.      266.      0.51         2       294.
   2465.54        0.0       298.       213.      130.      0.11         0   2462.50
      7.64        0.0       1.50       6.87      2.05      0.08   2466.04    2462.30
  0.004592      0.049      0.100      0.045     0.090      0.05     -0.00    305.42
              2457.90         15.        15.       15.      219.       75.    598.97        9.


CCHV=   0.100 CEHV=   0.800
*SECNO .260

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                    100 YR FLOOD          11/11/81
    MILE        Q          QLOB        QCH         QROB        HV         ITRIAL      TOPWID
    ELEV        CRIWS      ALOB        ACH         AROB        DHV        IDC         BANK ELEV
    DEPTH       WSELK      VLOB        VCH         VROB        HL         EG       LEFT/RIGHT
    SLOPE       WTN        XNL         XNCH        XNR         OLOSS      CORAR       SSTA
                ELMIN      XLOBL       XLCH        XLOBR       WSDL       WSDR        ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      0.26       2135.      100.      1798.      237.      1.77         9        84.
   2471.69    2471.69         31.       155.       82.      1.26        19    2468.40
      5.69        0.0       3.19      11.57      2.88      4.03   2473.46    2467.40
  0.018607      0.049      0.100      0.050     0.130      1.01     -0.00      43.45
              2466.00         495.       495.      495.       33.        5.    127.24       14.


*SECNO .270

*** GR CARDS REPEATED
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*** GR CARDS REPEATED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2472.80 ELREA= 2471.70

0.27	2135.	0.	1846.	289.	1.51	2	70.	
2472.60	0.0	0.	175.	105.	-0.26	0	2468.70	
6.30	0.0	0.0	10.54	2.75	0.62	2474.11	2467.70	
0.013166	0.049	0.100	0.050	0.130	0.03	-0.00	60.00	
	2466.30	40.	40.	40.	16.	54.	130.18	15.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.00	0.10	115.00	0.0

ELCHU	ELCHD
2466.30	2466.30

*SECNO .270

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2481.17	2474.16	0.05	946.	1190.	115.	115.	2471.80

ELTRD
2472.20

0.27	2135.	186.	1589.	360.	0.50	2	102.	
2474.76	0.0	85.	244.	198.	-1.00	0	2468.70	
8.46	0.0	2.20	6.50	1.82	1.15	2475.26	2467.70	
0.003222	0.049	0.100	0.050	0.130	0.0	-0.00	38.00	
	2466.30	10.	10.	10.	38.	64.	140.45	15.

*SECNO .280

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

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3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    0.28     2135.       76.      1827.      232.      1.82        20       84.
 2475.73  2475.73        32.       157.       83.      1.32        14   2472.40
    5.73      0.0       2.37      11.66      2.78      0.07   2477.55   2471.40
0.022668    0.049      0.150      0.055     0.150      1.06     -0.00     43.37
          2470.00        10.        10.       10.       33.       51.    127.41       15.

*SECNO .420
    AYLES CREEK                 100 YR FLOOD        11/11/81
   MILE       Q         QLOB       QCH        QROB       HV        ITRIAL     TOPWID
   ELEV       CRIWS     ALOB       ACH        AROB       DHV       IDC        BANK ELEV
   DEPTH      WSELK     VLOB       VCH        VROB       HL        EG      LEFT/RIGHT
   SLOPE      WTN       XNL        XNCH       XNR        OLOSS     CORAR      SSTA
              ELMIN     XLOBL      XLCH       XLOBR      WSDL      WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    0.42     2080.        0.      1645.      435.      1.48         5      126.
 2493.61  2493.61         0.       150.      185.     -0.34         8   2493.50
    6.31      0.0       0.21      10.93      2.35     16.01   2495.10   2491.20
0.020096    0.050      0.150      0.050     0.150      0.03       0.0    157.78
          2487.30       750.       750.      750.       19.      107.    284.00       20.

*SECNO .430

*** GR CARDS REPEATED
    AYLES CREEK                 100 YR FLOOD        11/11/81
   MILE       Q         QLOB       QCH        QROB       HV        ITRIAL     TOPWID
   ELEV       CRIWS     ALOB       ACH        AROB       DHV       IDC        BANK ELEV
   DEPTH      WSELK     VLOB       VCH        VROB       HL        EG      LEFT/RIGHT
   SLOPE      WTN       XNL        XNCH       XNR        OLOSS     CORAR      SSTA
              ELMIN     XLOBL      XLCH       XLOBR      WSDL      WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2496.80 ELREA=     2494.70

    0.43     2080.        0.      1644.      436.      1.48         2      124.
 2495.62  2495.62         0.       151.      186.     -0.00         5   2495.50
    6.32      0.0        0.0      10.91      2.35      1.20   2497.10   2493.20
0.020007    0.050      0.150      0.050     0.150      0.00       0.0    160.00
          2489.30        60.        60.       60.       17.      107.    284.01       21.

SPECIAL BRIDGE

SB    HK         XKOR       COFQ       RDLEN      BWC        BWP       BAREA       SS
    1.25         1.60       3.00        0.0      20.00       0.01     108.00       0.0
   ELCHU      ELCHD
 2489.30    2489.30

*SECNO .430

*** GR CARDS REPEATED
```

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2504.83	2497.10	0.01	984.	1099.	108.	108.	2494.70

ELTRD
2495.20

0.43	2080.	39.	1416.	624.	0.44	2	155.	
2497.75	0.0	44.	224.	383.	-1.04	0	2495.50	
8.45	0.0	0.89	6.34	1.63	1.10	2498.19	2493.20	
0.003986	0.050	0.150	0.050	0.150	0.0	-0.00	133.00	
	2489.30	10.	10.	10.	44.	111.	288.21	21.

*SECNO .430

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.43	2080.	0.	2041.	39.	0.33	1	123.	
2497.92	0.0	0.	436.	40.	-0.10	0	2498.00	
6.32	0.0	0.0	4.68	0.99	0.05	2498.25	2495.70	
0.003243	0.050	0.150	0.050	0.100	0.01	-0.00	160.15	
	2491.60	15.	15.	15.	46.	78.	283.64	21.

CCHV= 0.100 CEHV= 0.800
*SECNO .480

3301 HV CHANGED MORE THAN HVINS

0.48	2060.	0.	2050.	10.	1.00	2	66.	
2498.61	0.0	0.	255.	7.	0.66	0	2500.30	
6.31	0.0	0.0	8.03	1.42	0.82	2499.61	2497.00	
0.012527	0.050	0.150	0.055	0.100	0.53	-0.00	43.01	
	2492.30	145.	145.	145.	27.	39.	108.59	22.

CCHV= 0.100 CEHV= 0.500
*SECNO .480

0.48	2060.	273.	1366.	421.	1.34	2	72.	
2499.47	0.0	84.	123.	114.	0.35	0	2492.80	
7.17	0.0	3.25	11.14	3.70	1.03	2500.81	2493.00	
0.013274	0.050	0.150	0.055	0.100	0.17	-0.00	41.48	
	2492.30	80.	80.	80.	28.	44.	113.13	23.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2498.51 ,NOT 2499.47
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

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SB      HK          XKOR        COFQ        RDLEN       BWC         BWP         BAREA       SS
        1.25        1.60        3.00        0.0         18.00       0.90        115.00      0.0
     ELCHU       ELCHD
   2492.30     2492.30

*SECNO .480

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

      EGPRS       EGLWC          H3       QWEIR         QPR       BAREA       TAREA        ELLC
    2507.44     2503.19         0.0        717.       1344.        115.        115.     2499.00

      ELTRD
    2499.80


       0.48        2060.        266.       1090.        704.        0.33           2        164.
    2502.53         0.0         151.        178.        366.       -1.01           0     2492.80
      10.23         0.0         1.77        6.13        1.92        2.05     2502.86     2493.00
   0.002454       0.050        0.150       0.055       0.100         0.0       -0.00       34.43
               2492.30          10.         10.         10.          35.        130.      198.52        23.


*SECNO .480
       0.48        2060.          0.        2042.         18.        0.77           2        70.
    2502.39         0.0           0.         289.         13.        0.43           0     2503.50
       6.89         0.0          0.0         7.07        1.44        0.08     2503.16     2500.20
   0.008451       0.050        0.150       0.055       0.100        0.22       -0.00       41.97
               2495.50          20.         20.         20.          28.          42.      111.71        23.


CCHV=   0.100 CEHV=   0.800
*SECNO .570

3301 HV CHANGED MORE THAN HVINS

     AYLES CREEK                    100 YR FLOOD          11/11/81
    MILE        Q          QLOB        QCH         QROB        HV          ITRIAL      TOPWID
    ELEV        CRIWS      ALOB        ACH         AROB        DHV         IDC         BANK ELEV
    DEPTH       WSELK      VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
    SLOPE       WTN        XNL         XNCH        XNR         OLOSS       CORAR       SSTA
                ELMIN      XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST       VOL

       0.57        2025.          5.        2019.          0.        1.71           6        56.
    2507.88     2507.55          6.         192.          0.        0.94          15     2506.80
       5.88         0.0         0.92        10.50        0.63        5.68     2509.59     2507.20
   0.022327       0.051        0.160       0.055       0.160        0.75       -0.00      190.58
               2502.00          440.        440.        440.          32.          23.      246.30        26.


CCHV=   0.100 CEHV=   0.500
*SECNO .580

*** GR CARDS REPEATED
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3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2511.40 ELREA= 2511.50

0.58	2025.	0.	2025.	0.	0.93	2	44.	
2509.74	0.0	0.	261.	0.	-0.77	0	2507.10	
7.44	0.0	0.0	7.76	0.0	1.01	2510.68	2507.50	
0.008114	0.051	0.160	0.055	0.160	0.08	-0.00	201.00	
	2502.30	80.	80.	80.	22.	22.	245.00	26.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2508.31 ,NOT 2509.74
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	10.00	3.10	155.00	1.78

ELCHU	ELCHD
2502.30	2502.30

*SECNO .580

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2513.98	2512.84	0.0	279.	1750.	155.	155.	2509.90

ELTRD
2511.90

0.58	2025.	152.	1856.	17.	0.33	2	110.	
2512.58	0.0	169.	386.	24.	-0.60	0	2507.10	
10.28	0.0	0.90	4.81	0.69	2.23	2512.91	2507.50	
0.001856	0.051	0.160	0.055	0.160	0.0	-0.00	144.28	
	2502.30	10.	10.	10.	79.	32.	254.63	26.

*SECNO .580

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.58	2025.	23.	1999.	2.	1.06	2	68.	
2512.29	0.0	23.	241.	3.	0.73	0	2510.10	
6.99	0.0	1.00	8.30	0.81	0.07	2513.35	2510.50	
0.010324	0.051	0.160	0.055	0.160	0.36	-0.00	179.98	
	2505.30	20.	20.	20.	43.	25.	248.40	26.

CCHV= 0.100 CEHV= 0.800
*SECNO .690

*SECNO .690

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.69	1985.	256.	1715.	13.	1.64	9	115.	
2520.85	2520.85	128.	156.	8.	0.58	8	2519.40	
7.75	0.0	1.99	11.03	1.76	7.88	2522.49	2517.50	
0.021368	0.052	0.150	0.060	0.150	0.47	-0.00	165.39	
	2513.10	550.	550.	550.	98.	18.	280.51	30.

*SECNO .700

AYLES CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.70	1985.	321.	1653.	11.	1.66	2	111.	
2523.01	2523.01	140.	147.	6.	0.02	11	2521.90	
7.41	0.0	2.29	11.27	1.75	0.91	2524.67	2520.00	
0.024157	0.052	0.150	0.060	0.150	0.01	-0.00	169.03	
	2515.60	40.	40.	40.	94.	17.	280.05	30.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	6.00	0.01	45.00	0.0
ELCHU	ELCHD							
2515.60	2515.60							

*SECNO .700

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2524.81	2524.70	0.00	1606.	383.	45.	45.	2523.10
ELTRD							
2520.10							
0.70	1985.	421.	1549.	14.	1.08	4	121.

0.70	1985.	421.	1549.	14.	1.06	4	121.	

HO2

2523.73	0.0	202.	165.	9.	-0.58	0	2521.90	
8.13	0.0	2.09	9.37	1.55	0.14	2524.81	2520.00	
0.014203	0.052	0.150	0.060	0.150	0.0	-0.00	160.11	
	2515.60	30.	30.	30.	103.	18.	281.02	30.

*SECNO .720

3301 HV CHANGED MORE THAN HVINS

0.72	1980.	21.	1941.	18.	1.77	4	74.	
2524.12	2523.59	17.	180.	17.	0.69	11	2523.50	
7.52	0.0	1.23	10.77	1.09	0.53	2525.89	2522.70	
0.012478	0.052	0.130	0.045	0.130	0.55	-0.00	69.87	
	2516.60	40.	40.	40.	35.	39.	143.58	31.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.10	55.00	0.0

ELCHU	ELCHD
2516.60	2516.60

*SECNO .720

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2556.32	2525.98	0.09	1455.	526.	55.	55.	2520.30

ELTRD
2522.10

0.72	1980.	61.	1857.	62.	1.04	3	79.	
2525.35	0.0	43.	220.	45.	-0.72	0	2523.50	
8.75	0.0	1.41	8.45	1.37	0.51	2526.40	2522.70	
0.005906	0.052	0.130	0.045	0.130	0.0	-0.00	66.15	
	2516.60	10.	10.	10.	39.	40.	144.95	31.

*SECNO .720

0.72	1980.	71.	1847.	62.	1.17	2	79.	
2525.39	0.0	44.	206.	46.	0.13	0	2523.50	
7.19	0.0	1.59	8.98	1.34	0.07	2526.56	2522.70	
0.007416	0.052	0.130	0.045	0.150	0.10	-0.00	66.08	
	2518.20	10.	10.	10.	39.	40.	144.99	31.

CCHV= 0.100 CEHV= 0.800

*SECNO .800

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV

*SECNO .800

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV

I02

DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.80	1945.	1.	1944.	0.	1.39	2	52.	
2530.55	0.0	2.	205.	0.	0.22	0	2530.20	
7.05	0.0	0.39	9.48	0.01	5.20	2531.94	2530.50	
0.016553	0.053	0.150	0.055	0.150	0.18	-0.00	83.40	
	2523.50	490.	490.	490.	31.	21.	135.07	33.

CCHV= 0.100 CEHV= 0.500

*SECNO .810

3301 HV CHANGED MORE THAN HVINS

0.81	1945.	73.	1869.	3.	0.56	2	92.	
2531.90	0.0	75.	305.	5.	-0.83	0	2529.20	
9.40	0.0	0.97	6.14	0.65	0.44	2532.46	2529.50	
0.004098	0.053	0.150	0.055	0.150	0.08	-0.00	46.70	
	2522.50	60.	60.	60.	67.	25.	139.13	34.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2531.73 ,NOT 2531.90
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	10.00	0.30	60.00	0.0

ELCHU	ELCHD
2522.50	2522.50

*SECNO .810

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2558.01	2535.87	0.0	1316.	630.	60.	60.	2528.70

ELTRD
2531.80

0.81	1945.	189.	1744.	12.	0.25	2	119.	
2534.38	0.0	218.	409.	20.	-0.31	0	2529.20	
11.88	0.0	0.87	4.27	0.60	2.18	2534.64	2529.50	
0.001339	0.053	0.150	0.055	0.150	0.0	-0.00	24.55	
	2522.50	10.	10.	10.	89.	29.	143.39	34.

*SECNO .810

0.81	1945.	84.	1856.	5.	0.54	2	93.	
2534.27	0.0	78.	307.	5.	0.29	0	2531.50	
9.47	0.0	1.07	6.04	0.88	0.03	2534.81	2531.80	
0.002631	0.053	0.110	0.045	0.090	0.14	-0.00	46.15	
	2524.80	15.	15.	15.	68.	25.	139.24	34.

9.47	0.0	1.07	6.04	0.88	0.03	2534.81	2531.80	
0.002631	0.053	0.110	0.045	0.090	0.14	-0.00	46.15	
	2524.80	15.	15.	15.	68.	25.	139.24	34.

CCHV= 0.100 CEHV= 0.800
*SECNO .910

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.91	1910.	176.	1705.	29.	1.12	4	220.	
2537.78	2537.78	126.	190.	27.	0.58	15	2537.20	
6.48	0.0	1.40	8.99	1.08	2.03	2538.91	2536.40	
0.012414	0.052	0.110	0.050	0.120	0.47	-0.00	106.32	
	2531.30	415.	415.	415.	162.	58.	326.28	38.

CCHV= 0.100 CEHV= 0.500
*SECNO .920

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.92	1910.	381.	1454.	75.	0.48	3	253.	
2538.78	0.0	269.	229.	78.	-0.64	0	2537.20	
7.48	0.0	1.42	6.34	0.96	0.29	2539.26	2536.40	
0.004782	0.052	0.110	0.050	0.120	0.06	-0.00	102.87	
	2531.30	40.	40.	40.	165.	99.	367.21	38.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2538.69 ,NOT 2538.78
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	14.00	0.30	55.00	0.0
ELCHU	ELCHD							
2531.30	2531.30							

*SECNO .920

*** GR CARDS REPEATED

6870 D.S. ENERGY OF 2539.26 HIGHER THAN COMPUTED ENERGY OF 2539.10

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
2568.74	2541.63	0.0	1711.	199.	55.	55.	2535.30	
ELTRD								
2536.50								
0.92	1910.	384.	1449.	76.	0.47	2	254.	
2538.79	0.0	271.	230.	80.	-0.01	0	2537.20	
7.49	0.0	1.42	6.30	0.96	0.0	2539.26	2536.40	
0.004705	0.052	0.110	0.050	0.120	0.0	-0.00	102.80	
	2531.30	12.	12.	12.	165.	99.	367.26	38.

*SECNO .920

3265 DIVIDED FLOW

0.92	1910.	521.	1276.	113.	0.48	0	256.	
2538.84	0.0	277.	191.	82.	0.00	0	2537.20	
6.24	0.0	1.88	6.68	1.38	0.05	2539.31	2536.40	
0.005388	0.052	0.090	0.045	0.090	0.00	-0.00	102.66	
	2532.60	10.	10.	10.	165.	99.	367.37	38.

*SECNO 1.250

AYLES CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.25	1795.	612.	1176.	8.	0.75	13	355.	
2560.18	2560.18	312.	138.	10.	0.27	8	2559.50	
6.58	0.0	1.96	8.49	0.77	12.23	2560.93	2559.90	
0.009482	0.050	0.080	0.045	0.080	0.14	-0.00	120.47	
	2553.60	1760.	1760.	1760.	306.	49.	475.31	59.

*SECNO 1.280

*** GR CARDS REPEATED

AYLES CREEK			100 YR FLOOD		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

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3720 CRITICAL DEPTH ASSUMED
     1.28      1785.       634.      1141.       10.      0.68        20       357.
  2566.84   2566.84       331.       140.       12.     -0.09         5   2566.10
     6.64       0.0       1.92       8.14      0.83      1.35   2567.52   2566.50
 0.008567     0.050      0.080      0.045     0.080      0.01     -0.00    117.91
             2560.20       150.       150.      150.       308.      49.    475.38        60.

*SECNO 1.590

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                    100 YR FLOOD          11/11/81
    MILE        Q          QLOB        QCH         QROB        HV          ITRIAL      TOPWID
    ELEV        CRIWS      ALOB        ACH         AROB        DHV         IDC         BANK ELEV
    DEPTH       WSELK      VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
    SLOPE       WTN        XNL         XNCH        XNR         OLOSS       CORAR       SSTA
                ELMIN      XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.59      1675.         0.      1675.        0.      2.09        14        35.
  2591.06   2591.06         0.       144.        0.      1.41        11   2594.50
     6.26       0.0        0.0      11.60       0.0     21.30   2593.15   2593.70
 0.021089     0.049      0.150      0.045     0.090      0.71     -0.00     61.01
             2584.80       1690.      1690.      1690.       16.      19.     96.15        73.


*SECNO 1.590

*SECNO 1.590

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2594.00 ELREA=     2594.00

     1.59      1675.         0.      1675.        0.      1.02         3        40.
  2592.73       0.0          0.       207.        0.     -1.07         0   2594.50
     7.93       0.0        0.0        8.09       0.0      0.48   2593.74   2593.70
 0.007764     0.049      0.150      0.045     0.090      0.11     -0.00     58.11
             2584.80        40.        40.       40.       19.      21.     98.57        73.


SPECIAL BRIDGE

SB     HK         XKOR       COFQ       RDLEN      BWC        BWP      BAREA      SS
     1.25         1.60       3.00         0.0     35.00       0.30    260.00       0.0
   ELCHU      ELCHD
  2584.80    2584.80

*SECNO 1.590

*** GR CARDS REPEATED
CLASS A LOW FLOW

3420 BRIDGE W.S.=   2592.71 BRIDGE VELOCITY=,      6.10
     CALCULATED CHANNEL AREA=,      275.
    EGPRS      EGLWC          H3      QWEIR       QPR      BAREA      TAREA      ELLC
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  2593.76   2593.77       0.04          0.      1675.       260.       260.   2592.30
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 2593.76   2593.77      0.04        0.     1675.      260.      260.   2592.30

   ELTRD
 2594.50


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2594.50 ELREA=     2594.50

    1.59     1675.        0.     1675.        0.      1.00         0      41.
 2592.77      0.0         0.      209.        0.     -0.02         0   2594.50
    7.97      0.0        0.0      8.02       0.0      0.02   2593.77   2593.70
0.007571     0.049      0.150     0.045     0.090      0.0     -0.00     58.03
           2584.80         12.       12.       12.       19.       21.     98.64       73.


*SECNO 1.600

3301 HV CHANGED MORE THAN HVINS

   AYLES CREEK                    100 YR FLOOD         11/11/81
  MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
  ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
  DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
  SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
             ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.60     1675.        0.     1675.        0.      1.84         20      43.
 2593.64   2593.64        0.      154.        0.      0.84         19   2594.50
    5.64      0.0         0.0     10.88       0.0      0.12   2595.48   2593.70
0.021226     0.049      0.150     0.045     0.090      0.42     -0.00     56.56
           2588.00         10.       10.       10.       21.       22.     99.84       73.


*SECNO 1.870

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

   AYLES CREEK                    100 YR FLOOD         11/11/81
  MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
  ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
  DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
  SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
             ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.87     1575.      134.     1436.        5.      0.95          4     322.
 2627.54   2627.54      148.      175.       10.     -0.89          8   2627.80
    6.04      0.0         0.91     8.18       0.54    24.46   2628.49   2626.90
0.013556     0.049      0.150     0.050     0.150      0.09     -0.00     27.29
           2621.50        1450.     1450.     1450.      274.       53.     354.13       81.
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*SECNO 1.880

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELFV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.88	1575.	331.	1115.	129.	0.94	20	336.	
2632.13	2632.13	294.	121.	81.	-0.01	8	2626.90	
6.53	0.0	1.12	9.22	1.60	0.90	2633.07	2627.20	
0.009464	0.049	0.150	0.050	0.150	0.00	0.0	23.96	
	2625.60	80.	80.	80.	272.	64.	359.48	82.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.00	0.01	80.00	0.0

ELCHU	ELCHD
2625.60	2625.60

*SECNO 1.880

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2641.76	2633.07	0.00	904.	671.	80.	80.	2629.40

ELTRD
2631.50

1.88	1575.	620.	787.	168.	0.21	2	347.	
2633.66	0.0	698.	153.	170.	-0.73	0	2626.90	
8.06	0.0	0.89	5.13	0.99	0.81	2633.87	2627.20	
0.002140	0.049	0.150	0.050	0.150	0.0	-0.00	21.57	
	2625.60	16.	16.	16.	274.	73.	368.46	82.

*SECNO 1.880

1.88	1575.	701.	792.	82.	0.07	2	348.	
2633.83	0.0	705.	278.	95.	-0.14	0	2631.90	
8.23	0.0	0.99	2.85	0.86	0.01	2633.90	2631.00	
0.000733	0.049	0.080	0.045	0.080	0.01	-0.00	21.32	
	2625.60	10.	10.	10.	280.	68.	369.42	82.

CCHV= 0.100 CEHV= 0.800
*SECNO 1.900

3301 HV CHANGED MORE THAN HVINS

1.90	1565.	181.	1383.	1.	0.74	4	206.	
2633.76	2632.92	127.	189.	1.	0.67	14	2632.50	
7.66	0.0	1.43	7.31	0.75	0.06	2634.50	2633.00	
0.009727	0.049	0.100	0.055	0.100	0.53	-0.00	441.42	
	2626.10	35.	35.	35.	183.	23.	647.03	83.

CCHV= 0.100 CEHV= 0.500
*SECNO 1.900

*** GR CARDS REPEATED

1.90	1565.	167.	1397.	1.	0.74	2	207.	
2633.84	0.0	140.	192.	1.	-0.00	0	2632.50	
7.74	0.0	1.19	7.27	0.65	0.08	2634.57	2633.00	
0.006300	0.049	0.100	0.045	0.100	0.00	-0.00	440.63	
	2626.10	10.	10.	10.	184.	23.	647.35	83.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	20.00	0.20	115.00	0.0

ELCHU	ELCHD
2626.10	2626.10

*SECNO 1.900

*** GR CARDS REPEATED

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	QLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2638.44	2634.60	0.03	678.	889.	115.	115.	2631.90

ELTRD
2633.60

1.90	1565.	398.	1162.	6.	0.28	2	414.	
2635.05	0.0	373.	240.	8.	-0.46	0	2632.50	
8.95	0.0	1.07	4.85	0.69	0.75	2635.32	2633.00	
0.002089	0.049	0.100	0.045	0.100	0.0	-0.00	239.01	
	2626.10	32.	32.	32.	385.	28.	652.84	83.

*SECNO 1.900

1.90	1565.	398.	1157.	9.	0.34	2	414.	
2635.04	0.0	370.	215.	8.	0.06	0	2632.50	
6.74	0.0	1.08	5.39	1.12	0.03	2635.38	2633.00	
0.003593	0.049	0.130	0.050	0.080	0.03	-0.00	239.16	
	2628.30	10.	10.	10.	385.	28.	652.71	83.

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*SECNO 2.170

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                          100 YR FLOOD         11/11/81
   MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV        CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH       WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE       WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      2.17      1470.         0.      1470.         0.       1.83         20        38.
   2668.25   2668.25         0.       135.         0.       1.49         15   2671.30
      5.65       0.0        0.0      10.86        0.0       9.65    2670.08   2674.40
  0.021356     0.049      0.130      0.045      0.150       0.75      -0.00    131.16
             2662.60      1370.      1370.      1370.        18.        19.    168.83        95.


*SECNO 2.180

*** GR CARDS REPEATED
    AYLES CREEK                          100 YR FLOOD         11/11/81
   MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV        CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH       WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE       WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST      VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      2.18      1470.         0.      1470.         0.       1.82          1        38.
   2669.77   2669.77         0.       136.         0.      -0.01          5   2672.80
      5.67       0.0        0.0      10.81        0.0       1.27    2671.58   2675.90
  0.021127     0.049      0.130      0.045      0.150       0.00      -0.00    131.11
             2664.10        60.        60.        60.        18.        19.    168.85        95.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2668.77 ,NOT   2669.77
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK        XKOR       COFQ      RDLEN       BWC        BWP      BAREA       SS
      1.25       1.60       3.00        0.0      20.00       0.90     105.00      0.0
   ELCHU      ELCHD
   2664.10    2664.10

*SECNO 2.180

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW
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EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2674.64	2672.93	0.0	276.	1187.	105.	105.	2669.60

ELTRD
2671.00

2.18	1470.	0.	1470.	0.	0.52	2	51.	
2672.42	0.0	0.	253.	0.	-1.29	0	2672.80	
8.32	0.0	0.0	5.81	0.0	1.36	2672.94	2675.90	
0.003961	0.049	0.130	0.045	0.150	0.0	-0.00	122.26	
	2664.10	12.	12.	12.	27.	23.	172.81	95.

*SECNO 2.180

*** GR CARDS REPEATED

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.18	1470.	0.	1470.	0.	0.51	2	51.	
2672.49	0.0	0.	257.	0.	-0.01	0	2672.80	
8.39	0.0	0.0	5.73	0.0	0.06	2673.00	2675.90	
0.003813	0.049	0.130	0.045	0.100	0.00	-0.00	122.03	
	2664.10	15.	15.	15.	27.	23.	172.92	95.

CCHV= 0.100 CEHV= 0.800
*SECNO 2.210

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.21	1460.	46.	1313.	101.	1.66	2	71.	
2673.00	2673.00	20.	121.	44.	1.15	14	2670.40	
5.40	0.0	2.32	10.88	2.29	0.27	2674.66	2670.30	
0.022977	0.049	0.150	0.055	0.120	0.92	-0.00	51.95	
	2667.60	35.	35.	35.	25.	46.	122.78	95.

CCHV= 0.100 CEHV= 0.500
*SECNO 2.210

*** GR CARDS REPEATED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2675.00 ELREA= 2675.80

2.21	1460.	0.	1460.	0.	1.21	2	27.

2674.65	0.0	0.	165.	0.	-0.45	0	2670.40	
7.05	0.0	0.0	8.83	0.0	1.16	2675.86	2670.30	
0.009941	0.049	0.150	0.055	0.120	0.05	-0.00	63.00	
	2667.60	80.	80.	80.	14.	14.	90.00	96.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	25.00	0.70	148.00	0.0

ELCHU	ELCHD
2667.60	2667.60

*SECNO 2.210

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2677.07	2675.99	0.20	64.	1394.	148.	148.	2673.70

ELTRD
2675.50

2.21	1460.	82.	1005.	373.	0.23	2	201.	
2676.62	0.0	72.	219.	331.	-0.98	0	2670.40	
9.02	0.0	1.15	4.60	1.13	0.99	2676.85	2670.30	
0.001857	0.049	0.150	0.055	0.120	0.0	-0.00	45.44	
	2667.60	39.	39.	39.	31.	170.	246.44	96.

*SECNO 2.210

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

2.21	1460.	63.	1254.	143.	0.84	2	94.	
2676.38	0.0	37.	158.	102.	0.61	0	2672.40	
6.78	0.0	1.71	7.93	1.40	0.06	2677.22	2672.30	
0.007034	0.049	0.150	0.050	0.150	0.31	-0.00	49.46	
	2669.60	20.	20.	20.	27.	67.	143.29	96.

*SECNO 2.290

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 100 YR FLOOD 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

```
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     2.29      1430.       81.      1349.       0.      1.63       20       54.
  2682.79   2682.79       35.       128.       0.      0.78       15  2680.80
     5.29       0.0      2.34      10.52      0.0      4.45  2684.42  2683.00
0.023713     0.049     0.150     0.050     0.130      0.39    -0.00    34.97
           2677.50       380.      380.       380.      37.       17.    89.45      98.
```

THIS RUN EXECUTED 11/11/81 7:49:02

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
**************************************************

T1      YANCEY CO NC FEMA STUDY                                          2250
T2      100 YR FLOODWAY                                                  2255
T3      AYLES CREEK                                                      2260

J1  ICHECK     INQ    NINV    IDIR    STRT  METRIC    HVINS      Q       WSEL     FQ

          0.      6.      0.      0. 0.0           0.    0.0       0. 2456.91    0.0    2265

J2  NPROF   IPLOT   PRFVS    XSECV   XSECH       FN   ALLDC     IBW   CHNIM ITRACE

         15.     0.     -1.      0.      0.    0.0     0.0      0.      0.      0.    2270
```

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*PROF 2

CCHV=   0.100 CEHV=    0.500
*SECNO .030
    AYLES CREEK                      100 YR FLOODWAY      11/11/81
   MILE         Q          QLOB      QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS        ALOB      ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK        VLOB      VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE      WTN          XNL       XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN        XLOBL     XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

3470 ENCROACHMENT STATIONS=    610.0      665.0  TYPE=      1   TARGET=       55.000
     0.03      2220.         9.      2111.        99.       1.01          0        55.
  2456.91       0.0          6.       256.        42.       0.50          0    2455.50
     9.91    2455.91       1.64       8.26       2.37       0.0     2457.92    2455.20
 0.005629       0.0       0.070      0.045      0.070       0.0       -0.00     610.00
             2447.00         0.         0.         0.        19.        36.     665.00         0.

*SECNO .030

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=    610.0      665.0  TYPE=      1   TARGET=       55.000
     0.03      2220.        12.      2091.       117.       0.92          2        55.
  2457.23       0.0          7.       265.        48.      -0.10          0    2455.50
    10.23    2456.61       1.68       7.89       2.42       0.21    2458.14    2455.20
 0.004890      0.044      0.070      0.045      0.070       0.01      -0.00     610.00
             2447.00        40.        40.        40.        19.        36.     665.00         0.


SPECIAL BRIDGE

SB     HK       XKOR       COFQ      RDLEN        BWC        BWP      BAREA        SS
     1.25       1.60       3.00        0.0      24.00       0.90     150.00       0.0
   ELCHU      ELCHD
  2447.00    2447.00

*SECNO .030
     3700.   BRIDGE STENCL=    610.00    STENCR=     665.00

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

    EGPRS      EGLWC         H3      QWEIR        QPR      BAREA      TAREA       ELLC
  2462.67    2458.27       0.13      1007.      1216.       150.       150.    2453.50

    ELTRD
  2455.40


3470 ENCROACHMENT STATIONS=    610.0      665.0  TYPE=      1   TARGET=       55.000
     0.03      2220.        18.      2035.       167.       0.69          2        55.
  2458.17       0.0         11.       294.        68.      -0.22          0    2455.50
    11.17    2457.27       1.67       6.93       2.45       0.72    2458.86    2455.20
 0.003293      0.044      0.070      0.045      0.070       0.0       -0.00     610.00
```

```
  2458.17      0.0        11.       294.       68.       -0.22         0    2455.50
    11.17   2457.27      1.67      6.93      2.45       0.72   2458.86    2455.20
 0.003293     0.044     0.070     0.045     0.070       0.0      -0.00    610.00
```



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          2447.00       32.       32.       32.        19.       36.    665.00         1.

*SECNO .030

3470 ENCROACHMENT STATIONS=     610.0     665.0  TYPE=      1  TARGET=      55.000
     0.03     2220.       21.      1998.      201.      0.93         2       55.
  2458.09      0.0        10.       247.       67.      0.24         0    2455.50
     9.69   2457.50      2.06      8.10      3.01      0.04   2459.02    2455.20
 0.005162     0.043     0.070     0.045     0.070      0.12     -0.00    610.00
          2448.40       10.       10.       10.        19.       36.    665.00         1.

*SECNO .080

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                  100 YR FLOODWAY      11/11/81
   MILE        Q        QLOB      QCH       QROB       HV        ITRIAL     TOPWID
   ELEV      CRIWS      ALOB      ACH       AROB       DHV       IDC        BANK ELEV
   DEPTH     WSELK      VLOB      VCH       VROB       HL        EG       LEFT/RIGHT
   SLOPE     WTN        XNL       XNCH      XNR        OLOSS     CORAR      SSTA
             ELMIN      XLOBL     XLCH      XLOBR      WSDL      WSDR       ENDST       VOL

3470 ENCROACHMENT STATIONS=     325.0     475.0  TYPE=      1  TARGET=     150.000
     0.08     2200.      197.      1493.      510.      0.43         2      150.
  2459.42      0.0       120.       241.      214.     -0.50         0    2456.20
     7.72   2458.44      1.65      6.20      2.38      0.78   2459.85    2454.70
 0.003028     0.044     0.100     0.045     0.070      0.05     -0.00    325.00
          2451.70      200.      200.      200.        57.       93.    475.00         3.

*SECNO .080

3470 ENCROACHMENT STATIONS=     325.0     475.0  TYPE=      1  TARGET=     150.000
     0.08     2200.      206.      1455.      539.      0.37         2      150.
  2459.70      0.0       130.       251.      235.     -0.06         0    2456.20
     8.00   2459.00      1.58      5.80      2.29      0.22   2460.07    2454.70
 0.002508     0.044     0.100     0.045     0.070      0.01     -0.00    325.00
          2451.70       80.       80.       80.        57.       93.    475.00         4.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2458.93 ,NOT   2459.70
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB      HK        XKOR      COFQ      RDLEN      BWC        BWP      BAREA       SS
        1.25      1.60      3.00      0.0      17.00       0.30     90.00       0.0
   ELCHU     ELCHD
  2451.70   2451.70

*SECNO .080
     3700.   BRIDGE STENCL=    325.00    STENCR=    475.00

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW
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*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW
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                                                    J03

     EGPRS      EGLWC         H3      QWEIR       QPR      BAREA      TAREA      ELLC
   2474.55    2461.42        0.0       1429.      772.        90.        90.   2457.10

     ELTRD
   2457.70


 3470 ENCROACHMENT STATIONS=      325.0     475.0  TYPE=      1  TARGET=     150.000
       0.08       2200.          244.       1289.      668.      0.18          2      150.
    2461.36        0.0           195.        310.      359.     -0.19          0   2456.20
       9.66    2460.20          1.25        4.15      1.86      1.46    2461.53   2454.70
   0.000968       0.044         0.100       0.045     0.070       0.0      -0.00   325.00
                2451.70            10.         10.       10.        57.        93.   475.00         4.

 *SECNO .080

 3301 HV CHANGED MORE THAN HVINS

 3470 ENCROACHMENT STATIONS=      325.0     475.0  TYPE=      1  TARGET=     150.000
       0.08       2200.          136.       1825.      240.      0.93          2      150.
    2461.02        0.0            92.        216.      162.      0.75          0   2458.50
       7.02    2460.25          1.47        8.47      1.48      0.04    2461.95   2457.00
   0.006530       0.044         0.140       0.045     0.140      0.38      -0.00   325.00
                2454.00            20.         20.       20.        57.        93.   475.00         4.

 CCHV=    0.100 CEHV=    0.800
 *SECNO .150

 3470 ENCROACHMENT STATIONS=      425.0     575.0  TYPE=      1  TARGET=     150.000
       0.15       2175.          305.       1688.      183.      1.08          3      150.
    2463.89        0.0           112.        180.       60.      0.16          0   2461.80
       6.69    2464.10          2.73        9.36      3.06      2.90    2464.98   2461.60
   0.015903       0.049         0.090       0.055     0.090      0.12      -0.00   425.00
                2457.20            300.        300.      300.        99.        51.   575.00         7.


 CCHV=    0.100 CEHV=    0.500
 *SECNO .160

 *** GR CARDS REPEATED
     AYLES CREEK                    100 YR FLOODWAY       11/11/81
    MILE        Q          QLOB        QCH         QROB        HV          ITRIAL      TOPWID
    ELEV        CRIWS      ALOB        ACH         AROB        DHV         IDC         BANK ELEV
    DEPTH       WSELK      VLOB        VCH         VROB        HL          EG       LEFT/RIGHT
    SLOPE       WTN        XNL         XNCH        XNR         OLOSS       CORAR       SSTA
                ELMIN      XLOBL       XLCH        XLOBR       WSDL        WSDR        ENDST       VOL


 3470 ENCROACHMENT STATIONS=      425.0     575.0  TYPE=      1  TARGET=     150.000
       0.16       2175.          375.       1592.      208.      0.78          3      150.
    2465.00        0.0           144.        196.       73.     -0.30          0   2462.50
       7.10    2464.80          2.60        8.14      2.85      0.78    2465.78   2462.30
   0.010762       0.049         0.090       0.055     0.090      0.03      -0.00   425.00
                2457.90            60.         60.       60.        99.        51.   575.00         8.
```

K03

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2464.01 ,NOT 2465.00
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	22.00	0.30	100.00	0.0

ELCHU	ELCHD
2457.90	2457.90

*SECNO .160
3700. BRIDGE STENCL= 425.00 STENCR= 575.00

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2476.75	2466.37	0.0	1411.	775.	100.	100.	2462.50

ELTRD
2463.80

3470 ENCROACHMENT STATIONS= 425.0 575.0 TYPE= 1 TARGET= 150.000

0.16	2175.	520.	1403.	252.	0.38	2	150.	
2466.12	0.0	234.	238.	109.	-0.41	0	2462.50	
8.22	2465.52	2.22	5.89	2.31	0.71	2466.49	2462.30	
0.004327	0.049	0.090	0.055	0.090	0.0	-0.00	425.00	
	2457.90	31.	31.	31.	99.	51.	575.00	8.

*SECNO .160

3470 ENCROACHMENT STATIONS= 425.0 575.0 TYPE= 1 TARGET= 150.000

0.16	2175.	426.	1520.	229.	0.47	2	150.	
2466.13	0.0	235.	235.	109.	0.10	0	2462.50	
8.23	2465.54	1.82	6.47	2.10	0.06	2466.60	2462.30	
0.003563	0.049	0.100	0.045	0.090	0.05	-0.00	425.00	
	2457.90	15.	15.	15.	99.	51.	575.00	8.

CCHV= 0.100 CEHV= 0.800
*SECNO .260

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 100 YR FLOODWAY 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 50.0 110.0 TYPE= 1 TARGET= 60.000

0.26	2135.	81.	1862.	192.	2.07	10	60.

L03

2471.56	2471.56	23.	151.	57.	1.60	19	2468.40

2471.56	2471.56	23.	151.	57.	1.60	19	2468.40	
5.56	2471.69	3.49	12.31	3.37	3.55	2473.63	2467.40	
0.021870	0.049	0.100	0.050	0.130	1.28	-0.00	50.00	
	2466.00	495.	495.	495.	26.	34.	110.00	13.

*SECNO .270

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS= 50.0 110.0 TYPE= 1 TARGET= 60.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2472.80 ELREA= 2471.70

0.27	2135.	0.	1917.	218.	1.61	3	50.	
2472.74	0.0	0.	179.	73.	-0.47	0	2468.70	
6.44	2472.60	0.0	10.68	2.99	0.67	2474.35	2467.70	
0.013111	0.049	0.100	0.050	0.130	0.05	-0.00	60.00	
	2466.30	40.	40.	40.	16.	34.	110.00	13.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.00	0.10	115.00	0.0

ELCHU	ELCHD
2466.30	2466.30

*SECNO .270
3700. BRIDGE STENCL= 50.00 STENCR= 110.00

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 100 YR FLOODWAY 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2481.30	2474.41	0.06	861.	1278.	115.	115.	2471.80

ELTRD
2472.20

3470 ENCROACHMENT STATIONS= 50.0 110.0 TYPE= 1 TARGET= 60.000

0.27	2135.	119.	1789.	227.	0.64	2	60.	
2475.17	0.0	56.	257.	117.	-0.97	0	2468.70	
8.87	2474.76	2.11	6.95	1.94	1.46	2475.81	2467.70	
0.003428	0.049	0.100	0.050	0.130	0.0	-0.00	50.00	
	2466.30	10.	10.	10.	26.	34.	110.00	13.

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*SECNO .280

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                  100 YR FLOODWAY      11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=      50.0     110.0  TYPE=      1  TARGET=      60.000
     0.28     2135.       61.     1887.      187.      2.13         3        60.
  2475.59  2475.59       24.      152.       58.      1.49        14   2472.40
     5.59  2475.73     2.56     12.39     3.24      0.07   2477.72   2471.40
 0.026582     0.049    0.150     0.055    0.150      1.19     -0.00     50.00
          2470.00       10.       10.       10.       26.       34.    110.00       13.


*SECNO .420

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     160.0     255.0  TYPE=      1  TARGET=      95.000
     0.42     2080.        0.     1695.      385.      1.58         8        95.
  2493.67  2493.63        0.      153.      151.     -0.54         8   2493.50
     6.37  2493.61       0.0     11.12     2.56      17.48   2495.25   2491.20
 0.020543     0.050    0.150     0.050    0.150      0.05     -0.00     160.00
          2487.30       750.      750.      750.       17.       78.    255.00       18.


*SECNO .430

*** GR CARDS REPEATED
    AYLES CREEK                  100 YR FLOODWAY      11/11/81
   MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
   SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     160.0     255.0  TYPE=      1  TARGET=      95.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=     2496.80 ELREA=     2494.70

     0.43     2080.        0.     1706.      374.      1.69         0        95.
  2495.57  2495.57        0.      149.      144.      0.11         5   2495.50
     6.27  2495.62       0.0     11.45     2.59      1.29   2497.26   2493.20
 0.022367     0.050    0.150     0.050    0.150      0.09     -0.00     160.00
          2489.30        60.       60.       60.       17.       78.    255.00       18.
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SPECIAL BRIDGE

SB    HK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS
    1.25       1.60      3.00       0.0     20.00      0.01    108.00      0.0
   ELCHU     ELCHD
 2489.30   2489.30

*SECNO .430
     3700.   BRIDGE STENCL=    160.00    STENCR=    255.00

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

   EGPRS     EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
 2504.78   2497.26      0.01      887.     1212.      108.      108.   2494.70

   ELTRD
 2495.20


3470 ENCROACHMENT STATIONS=     160.0     255.0  TYPE=     1  TARGET=     95.000
    0.43     2080.        0.     1526.      554.      0.48         2       95.
 2498.22       0.0        0.      239.      306.     -1.21         0   2495.50
    8.92   2497.75       0.0      6.37      1.81      1.44   2498.70   2493.20
0.004054     0.050     0.150     0.050     0.150       0.0     -0.00    160.00
           2489.30       10.       10.       10.       17.       78.    255.00         18.


*SECNO .430
   AYLES CREEK                        100 YR FLOODWAY     11/11/81
  MILE     Q         QLOB      QCH       QROB      HV        ITRIAL    TOPWID
  ELEV     CRIWS     ALOB      ACH       AROB      DHV       IDC       BANK ELEV
  DEPTH    WSELK     VLOB      VCH       VROB      HL        EG      LEFT/RIGHT
  SLOPE    WTN       XNL       XNCH      XNR       OLOSS     CORAR     SSTA
           ELMIN     XLOBL     XLCH      XLOBR     WSDL      WSDR      ENDST       VOL

3470 ENCROACHMENT STATIONS=     160.0     255.0  TYPE=     1  TARGET=     95.000
    0.43     2080.        0.     2073.        7.      0.28         2       95.
 2498.48       0.0        0.      487.        8.     -0.20         0   2498.00
    6.88   2497.92       0.0      4.25      0.92      0.05   2498.76   2495.70
0.002333     0.050     0.150     0.050     0.100      0.02     -0.00    160.00
           2491.60       15.       15.       15.       46.       49.    255.00         18.

CCHV=   0.100 CEHV=   0.800
*SECNO .480

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=      40.0     100.0  TYPE=     1  TARGET=     60.000
    0.48     2060.        0.     2060.        0.      0.86         2       58.
 2498.99       0.0        0.      277.        0.      0.58         0   2500.30
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      6.69   2498.61      0.0       7.45       0.0       0.62   2499.85  100000.00
 0.010275      0.050    0.150      0.055     0.100       0.46     -0.00     42.34
               2492.30     145.       145.       145.       28.       30.    100.00        20.


 CCHV=   0.100 CEHV=   0.500
 *SECNO .480

 3470 ENCROACHMENT STATIONS=       40.0      100.0  TYPE=      1  TARGET=      60.000
       0.48     2060.      275.      1361.       425.       1.27         2        59.
    2499.67      0.0        88.       126.       102.       0.41         0   2492.80
       7.37   2499.47      3.14      10.78      4.16       0.89   2500.94   2493.00
  0.011974      0.050    0.150      0.055     0.100       0.20     -0.00     41.12
               2492.30      80.       80.        80.       28.       31.    100.00        20.


 SPECIAL BRIDGE

 5227 DOWNSTREAM ELEV IS   2498.51 ,NOT   2499.67
 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

 SB     HK         XKOR       COFQ       RDLEN      BWC        BWP      BAREA      SS
        1.25       1.60       3.00       0.0        18.00      0.90     115.00     0.0
     ELCHU      ELCHD
    2492.30    2492.30

 *SECNO .480
      3700.   BRIDGE STENCL=      40.00    STENCR=     100.00

 *** GR CARDS REPEATED

 3301 HV CHANGED MORE THAN HVINS

 PRESSURE AND WEIR FLOW

      EGPRS      EGLWC        H3       QWEIR       QPR       BAREA      TAREA      ELLC
    2507.64    2503.11       0.0        707.      1355.       115.       115.    2499.00

      ELTRD
    2499.80


 3470 ENCROACHMENT STATIONS=       40.0      100.0  TYPE=      1  TARGET=      60.000
       0.48     2060.      300.      1289.       471.       0.54         2        60.
    2502.57      0.0        145.      179.       166.      -0.72         0   2492.80
      10.27   2502.53      2.06       7.22      2.84       2.18   2503.11   2493.00
  0.003381      0.050    0.150      0.055     0.100       0.0      -0.00     40.00
               2492.30      10.       10.        10.       29.       31.    100.00        20.


 *SECNO .480

 3470 ENCROACHMENT STATIONS=       40.0      100.0  TYPE=      1  TARGET=      60.000
       0.48     2060.        0.      2060.        0.       0.74         2        58.
    2502.57      0.0         0.       299.        0.       0.19         0   2503.50
       7.07   2502.39       0.0       6.88       0.0       0.10   2503.31  100003.19
  0.008104      0.050    0.150      0.055     0.100       0.10     -0.00     41.65
               2495.50      20.       20.        20.       28.       30.    100.00        21.
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CCHV=   0.100 CEHV=    0.800
*SECNO .570

3301 HV CHANGED MORE THAN HVINS

        AYLES CREEK                      100 YR FLOODWAY      11/11/81
      MILE       Q          QLOB       QCH        QROB       HV         ITRIAL      TOPWID
      ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC         BANK ELEV
      DEPTH      WSELK      VLOB       VCH        VROB       HL         EG        LEFT/RIGHT
      SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR       SSTA
                 ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR        ENDST       VOL

3470 ENCROACHMENT STATIONS=       200.0      245.0  TYPE=      1   TARGET=       45.000
       0.57       2025.         1.       2024.         0.       1.70          4         45.
    2507.92        0.0          1.        194.         0.       0.96          0     2506.80
       5.92    2507.88        0.91       10.45        0.0       5.54    2509.61    99999.69
   0.022381      0.051       0.160       0.055      0.160       0.77      -0.00      200.00
               2502.00        440.        440.       440.        23.        22.      245.00        23.

CCHV=   0.100 CEHV=    0.500
*SECNO .580

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=       200.0      245.0  TYPE=      1   TARGET=       45.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=      2511.40 ELREA=      2511.50

       0.58       2025.         0.       2025.         0.       0.91          2         44.
    2509.81        0.0          0.        264.         0.      -0.78          0     2507.10
       7.51    2509.74         0.0        7.67        0.0       1.03    2510.72   100000.00
   0.008352      0.051       0.160       0.055      0.160       0.08      -0.00      201.00
               2502.30         80.         80.        80.        22.        22.      245.00        23.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    2508.31 ,NOT    2509.81
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK         XKOR       COFQ       RDLEN       BWC        BWP        BAREA        SS
       1.25       1.60       3.00        0.0       10.00       3.10      155.00       1.78
     ELCHU      ELCHD
    2502.30    2502.30

*SECNO .580
       3700.    BRIDGE STENCL=     200.00    STENCR=     245.00

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW
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    EGPRS     EGLWC          H3     QWEIR       QPR     BAREA     TAREA      ELLC
  2514.05   2512.82         0.0      197.     1823.      155.      155.   2509.90

    ELTRD
  2511.90


 3470 ENCROACHMENT STATIONS=      200.0      245.0  TYPE=      1  TARGET=       45.000
     0.58     2025.          2.     2023.        0.      0.40         2       45.
  2512.84      0.0           6.      397.        0.     -0.51         0   2507.10
    10.54   2512.58        0.40      5.09       0.0      2.52   2513.24 100000.00
 0.002314     0.051       0.160     0.055     0.160       0.0     -0.00    200.00
            2502.30         10.        10.       10.       23.       22.    245.00       24.

 *SECNO .580

 *** GR CARDS REPEATED

 3301 HV CHANGED MORE THAN HVINS


 3470 ENCROACHMENT STATIONS=      200.0      245.0  TYPE=      1  TARGET=       45.000
     0.58     2025.          2.     2023.        0.      0.97         2       45.
  2512.64      0.0           2.      256.        0.      0.56         0   2510.10
     7.34   2512.29        0.72      7.89       0.0      0.08   2513.61 100000.00
 0.009134     0.051       0.160     0.055     0.160      0.28     -0.00    200.00
            2505.30         20.        20.       20.       23.       22.    245.00       24.

 CCHV=   0.100 CEHV=   0.800
 *SECNO .690

 3301 HV CHANGED MORE THAN HVINS

     AYLES CREEK                       100 YR FLOODWAY       11/11/81
    MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
    SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=      190.0      280.0  TYPE=      1  TARGET=       90.000
     0.69     1985.        213.     1759.       13.      1.82         9       90.
  2520.76   2520.76        100.      153.        7.      0.85         8   2519.40
     7.66   2520.85        2.12     11.47      1.86      7.60   2522.58   2517.50
 0.023590     0.052       0.150     0.060     0.150      0.68     -0.00    190.00
            2513.10        550.      550.      550.       73.       17.    280.00       27.

 *SECNO .700
     AYLES CREEK                       100 YR FLOODWAY       11/11/81
    MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
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SLOPE	WTN	XNL	XNCH	XNR	QLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 190.0 280.0 TYPE= 1 TARGET= 90.000

0.70	1985.	300.	1675.	10.	1.76	2	90.	
2522.95	2522.95	119.	145.	6.	-0.06	11	2521.90	
7.35	2523.01	2.52	11.54	1.78	0.98	2524.71	2520.00	
0.025626	0.052	0.150	0.060	0.150	0.01	0.0	190.00	
	2515.60	40.	40.	40.	73.	17.	279.97	27.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	6.00	0.01	45.00	0.0

ELCHU	ELCHD
2515.60	2513.60

*SECNO .700
3700. BRIDGE STENCL= 190.00 STENCR= 280.00

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2525.17	2525.03	0.00	1562.	425.	45.	45.	2523.10

ELTRD
2520.10

3470 ENCROACHMENT STATIONS= 190.0 280.0 TYPE= 1 TARGET= 90.000

0.70	1985.	439.	1529.	17.	0.88	3	90.	
2524.29	0.0	200.	180.	11.	-0.88	0	2521.90	
8.69	2523.73	2.20	8.49	1.49	0.46	2525.17	2520.00	
0.010424	0.052	0.150	0.060	0.150	0.0	-0.00	190.00	
	2515.60	30.	30.	30.	73.	17.	280.00	27.

*SECNO .720

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 75.0 135.0 TYPE= 1 TARGET= 60.000

0.72	1980.	28.	1926.	26.	1.48	2	60.	
2524.57	0.0	21.	194.	19.	0.60	0	2523.50	
7.97	2524.12	1.35	9.91	1.33	0.40	2526.05	2522.70	
0.009536	0.052	0.130	0.045	0.130	0.48	-0.00	75.00	
	2516.60	40.	40.	40.	30.	30.	135.00	28.

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SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2524.22  ,NOT   2524.57
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     NK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA      SS
       1.25      1.60      3.00       0.0      15.00      0.10      55.00     0.0
    ELCHU     ELCHD
  2516.60   2516.60

*SECNO .720
     3700.  BRIDGE STENCL=     75.00    STENCR=    135.00

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

 PRESSURE AND WEIR FLOW

      EGPRS     EGLWC        H3      QWEIR       QPR      BAREA      TAREA      ELLC
    2556.77   2527.04       0.0       1456.      525.       55.        55.   2520.30

      ELTRD
    2522.10



 3470 ENCROACHMENT STATIONS=       75.0     135.0  TYPE=      1  TARGET=      60.000
       0.72      1980.       55.      1873.       53.      0.91         3        60.
    2525.93       0.0        40.       238.       38.     -0.57         0   2523.50
       9.33   2525.35       1.37       7.87       1.38     0.78   2526.84   2522.70
   0.004606     0.052      0.130      0.045      0.130      0.0     -0.00     75.00
               2516.60       10.        10.        10.       30.        30.   135.00        28.


 *SECNO .720

 3470 ENCROACHMENT STATIONS=       75.0     135.0  TYPE=      1  TARGET=      60.000
       0.72      1980.       62.      1866.       52.      1.02         2        60.
    2525.95       0.0        40.       224.       39.      0.11         0   2523.50
       7.75   2525.39       1.54       8.34       1.34     0.05   2526.98   2522.70
   0.005725     0.052      0.130      0.045      0.150     0.09     -0.00     75.00
               2518.20       10.        10.        10.       30.        30.   135.00        28.


 CCHV=   0.100 CEHV=   0.800
 *SECNO .800
     AYLES CREEK                    100 YR FLOODWAY      11/11/81
    MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC       BANK ELEV
    DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
    SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR     SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR      ENDST        VOL


 3470 ENCROACHMENT STATIONS=       65.0     135.0  TYPE=      1  TARGET=      70.000
       0.80      1945.        0.      1945.        0.      1.46         2        48.
    2530.42       0.0         1.       200.        0.      0.44         0   2530.20
       6.92   2530.55       0.31       9.71       0.0      4.55   2531.88  100001.00
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0.017048      0.053      0.150      0.055      0.150      0.35      -0.00      86.66
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 0.017848     0.053     0.150     0.055     0.150      0.35     -0.00     86.66
             2523.50       490.      490.      490.       27.       21.    134.88        31.

CCHV=  0.100 CEHV=  0.500
*SECNO .810

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=       65.0     135.0  TYPE=      1  TARGET=      70.000
      0.81      1945.       65.      1880.        0.      0.58         2        70.
   2531.87       0.0        60.       303.        0.     -0.89         0   2529.20
      9.37   2531.90      1.09       6.20       0.0      0.48   2532.45  100000.00
  0.004494     0.053     0.150     0.055     0.150      0.09     -0.00     65.00
             2522.50       60.       60.       60.       49.       21.    135.00        31.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2531.73 ,NOT   2531.87
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

 SB      HK        XKOR      COFQ      RDLEN       BWC       BWP     BAREA       SS
       1.25        1.60      3.00        0.0     10.00      0.30     60.00      0.0
     ELCHU     ELCHD
   2522.50   2522.50

*SECNO .810
     3700.   BRIDGE STENCL=     65.00    STENCR=    135.00

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

     EGPRS     EGLWC        H3     QWEIR       QPR     BAREA     TAREA      ELLC
   2557.98   2535.89       0.0      1241.      705.       60.       60.   2528.70

     ELTRD
   2531.80


3470 ENCROACHMENT STATIONS=       65.0     135.0  TYPE=      1  TARGET=      70.000
      0.81      1945.      151.      1794.        0.      0.24         2        70.
   2535.06       0.0       149.       437.        0.     -0.33         0   2529.20
     12.56   2534.38      1.02       4.10       0.0      2.85   2535.30  100000.00
  0.001321     0.053     0.150     0.055     0.150       0.0     -0.00     65.00
             2522.50       10.       10.       10.       49.       21.    135.00        31.


*SECNO .810

3470 ENCROACHMENT STATIONS=       65.0     135.0  TYPE=      1  TARGET=      70.000
      0.81      1945.      101.      1844.        0.      0.44         2        70.
   2534.98       0.0        82.       337.        0.      0.20         0   2531.50
     10.18   2534.27      1.23       5.47       0.0      0.02   2535.42  100002.25
  0.002083     0.053     0.110     0.045     0.090       0.10     -0.00     65.00
             2524.80       15.       15.       15.       49.       21.    135.00        31.
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CCHV=   0.100 CEHV=   0.800
*SECNO .910

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                  100 YR FLOODWAY      11/11/81
   MILE       Q          QLOB      QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB      ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB      VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE      WTN        XNL       XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL     XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     230.0     300.0  TYPE=      1  TARGET=      70.000
     0.91     1910.        4.     1893.       12.      1.88         3        70.
  2537.33  2537.33        5.      172.        9.      1.43        14   2537.20
     6.03  2537.78     0.85     11.04      1.41      1.99   2539.21    2536.40
 0.021364    0.052    0.110     0.050     0.120      1.15     -0.00     230.00
           2531.30     415.      415.      415.        38.        32.   300.00       34.


CCHV=   0.100 CEHV=   0.500
*SECNO .920

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                  100 YR FLOODWAY      11/11/81
   MILE       Q          QLOB      QCH        QROB       HV         ITRIAL     TOPWID
   ELEV       CRIWS      ALOB      ACH        AROB       DHV        IDC        BANK ELEV
   DEPTH      WSELK      VLOB      VCH        VROB       HL         EG       LEFT/RIGHT
   SLOPE      WTN        XNL       XNCH       XNR        OLOSS      CORAR      SSTA
              ELMIN      XLOBL     XLCH       XLOBR      WSDL       WSDR       ENDST       VOL


3470 ENCROACHMENT STATIONS=     230.0     300.0  TYPE=      1  TARGET=      70.000
     0.92     1910.       52.     1815.       43.      0.90         3        70.
  2538.86     0.0         33.      233.       27.     -0.98         0   2537.20
     7.56  2538.78     1.58      7.80      1.61      0.46   2539.76    2536.40
 0.007102    0.052    0.110     0.050     0.120      0.10     -0.00     230.00
           2531.30      40.       40.       40.        38.        32.   300.00       34.


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   2538.69 ,NOT   2538.86
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB     HK         XKOR       COFQ       RDLEN      BWC        BWP      BAREA      SS
     1.25       1.60       3.00        0.0      14.00       0.30      55.00      0.0
   ELCHU      ELCHD
  2531.30    2531.30

*SECNO .920
     3700.   BRIDGE STENCL=    230.00    STENCR=    300.00
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*SECNO .920
3700. BRIDGE STENCL= 230.00 STENCR= 300.00

*** GR CARDS REPEATED
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2568.82	2542.05	0.0	1485.	426.	55.	55.	2535.30

ELTRD
2536.50

3470 ENCROACHMENT STATIONS=			230.0	300.0	TYPE= 1	TARGET=	70.000	
0.92	1910.	74.	1780.	56.	0.65	3	70.	
2539.70	0.0	48.	266.	37.	-0.25	0	2537.20	
8.40	2538.79	1.55	6.68	1.50	0.59	2540.35	2536.40	
0.004348	0.052	0.110	0.050	0.120	0.0	-0.00	230.00	
	2531.30	12.	12.	12.	38.	32.	300.00	35.

*SECNO .920

3470 ENCROACHMENT STATIONS=			230.0	300.0	TYPE= 1	TARGET=	70.000	
0.92	1910.	102.	1724.	84.	0.84	2	70.	
2539.66	0.0	47.	224.	37.	0.19	0	2537.20	
7.06	2538.84	2.17	7.69	2.29	0.05	2540.50	2536.40	
0.005782	0.052	0.090	0.045	0.090	0.09	-0.00	230.00	
	2532.60	10.	10.	10.	38.	32.	300.00	35.

*SECNO 1.250

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			100 YR FLOODWAY		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=			410.0	450.0	TYPE= 1	TARGET=	40.000	
1.25	1795.	3.	1783.	8.	2.33	13	40.	
2560.42	2560.42	2.	145.	5.	1.49	8	2559.50	
6.82	2560.18	1.86	12.28	1.58	16.49	2562.74	2559.90	
0.018617	0.050	0.080	0.045	0.080	0.75	-0.00	410.00	
	2553.60	1760.	1760.	1760.	16.	24.	450.00	44.

*SECNO 1.280

*** GR CARDS REPEATED

AYLES CREEK			100 YR FLOODWAY		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	

ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA

	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 410.0 450.0 TYPE= 1 TARGET= 40.000

1.28	1785.	3.	1774.	7.	2.34	20	40.	
2566.98	2566.98	2.	144.	5.	0.01	5	2566.10	
6.78	2566.84	1.84	12.31	1.52	2.81	2569.32	2566.50	
0.018898	0.050	0.080	0.045	0.080	0.01	0.0	410.00	
	2560.20	150.	150.	150.	16.	24.	450.00	44.

*SECNO 1.590

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 100 YR FLOODWAY 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3470 ENCROACHMENT STATIONS= 55.0 100.0 TYPE= 1 TARGET= 45.000

1.59	1675.	0.	1675.	0.	1.30	4	39.	
2592.12	0.0	0.	183.	0.	-1.04	0	2594.50	
7.32	2591.06	0.0	9.15	0.0	23.99	2593.42	100000.00	
0.010885	0.049	0.150	0.045	0.090	0.10	-0.00	59.17	
	2584.80	1690.	1690.	1690.	18.	20.	97.69	51.

*SECNO 1.590

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS= 55.0 100.0 TYPE= 1 TARGET= 45.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2594.00 ELREA= 2594.00

1.59	1675.	0.	1675.	0.	0.98	2	41.	
2592.83	0.0	0.	211.	0.	-0.32	0	2594.50	
8.03	2592.73	0.0	7.93	0.0	0.35	2593.80	100000.00	
0.007335	0.049	0.150	0.045	0.090	0.03	-0.00	57.93	
	2584.80	40.	40.	40.	20.	21.	98.72	51.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	35.00	0.30	260.00	0.0
ELCHU	ELCHD							
2584.80	2584.80							

*SECNO 1.590
3700. BRIDGE STENCL= 55.00 STENCR= 100.00

*** GR CARDS REPEATED
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2593.86	2593.83	0.04	0.	1675.	260.	260.	2592.30

ELTRD
2594.50

3470 ENCROACHMENT STATIONS= 55.0 100.0 TYPE= 1 TARGET= 45.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2594.50 ELREA= 2594.50

1.59	1675.	0.	1675.	0.	0.94	3	41.	
2592.91	0.0	0.	215.	0.	-0.03	0	2594.50	
8.11	2592.77	0.0	7.79	0.0	0.06	2593.86	100000.00	
0.006999	0.049	0.150	0.045	0.090	0.0	-0.00	57.77	
	2584.80	12.	12.	12.	20.	21.	98.85	51.

*SECNO 1.600

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK			100 YR FLOODWAY		11/11/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 55.0 100.0 TYPE= 1 TARGET= 45.000

1.60	1675.	0.	1675.	0.	1.82	20	43.	
2593.65	2593.65	0.	155.	0.	0.88	19	2594.50	
5.65	2593.64	0.0	10.84	0.0	0.11	2595.48	100000.00	
0.021023	0.049	0.150	0.045	0.090	0.44	-0.00	56.54	
	2588.00	10.	10.	10.	21.	22.	99.87	51.

*SECNO 1.870

3470 ENCROACHMENT STATIONS= 275.0 325.0 TYPE= 1 TARGET= 50.000

1.87	1575.	0.	1575.	0.	1.64	7	46.	
2627.05	2627.01	0.	153.	0.	-0.18	8	2627.80	
5.55	2627.54	0.0	10.28	0.39	33.20	2628.69	2626.90	
0.025170	0.049	0.150	0.050	0.150	0.02	-0.00	278.77	
	2621.50	1450.	1450.	1450.	22.	24.	325.00	56.

*SECNO 1.880

3301 HV CHANGED MORE THAN HVINS

AYLES CREEK 100 YR FLOODWAY 11/11/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID

```
    MILE        Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV        CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH       WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
    SLOPE       WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
                ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST        VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=      275.0      325.0  TYPE=       1  TARGET=       50.000
       1.88       1575.         58.       1398.        119.       2.18          20          47.
    2631.67    2631.67          21.        111.         47.       0.54           8       2626.90
       6.07    2632.13         2.84       12.55        2.54       1.77     2633.85       2627.20
  0.019587       0.049        0.150       0.050       0.150       0.27       -0.00       278.24
                2625.60         80.        80.          80.        17.          29.       325.00        57.


SPECIAL BRIDGE

SB      HK         XKOR       COFQ       RDLEN       BWC        BWP       BAREA       SS
        1.25       1.60       3.00        0.0        21.00       0.01       80.00       0.0
     ELCHU      ELCHD
   2625.60    2625.60

*SECNO 1.880
     3700.   BRIDGE STENCL=     275.00    STENCR=     325.00

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

     EGPRS      EGLWC         H3       QWEIR       QPR       BAREA      TAREA      ELLC
   2641.30    2633.86       0.01        680.       903.        80.        80.    2629.40

     ELTRD
   2631.50


3470 ENCROACHMENT STATIONS=      275.0      325.0  TYPE=       1  TARGET=       50.000
       1.88       1575.         77.       1319.        179.       0.90           3          50.
    2633.93        0.0          43.        159.         90.      -1.28           0       2626.90
       8.33    2633.66         1.81        8.30        1.99       0.99     2634.84       2627.20
  0.005329       0.049        0.150       0.050       0.150       0.0        -0.00       275.00
                2625.60         16.        16.          16.        21.          29.       325.00        57.

*SECNO 1.880

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=      275.0      325.0  TYPE=       1  TARGET=       50.000
       1.88       1575.          8.       1564.          2.       0.39           2          50.
    2634.52        0.0           8.        310.          4.      -0.51           0       2631.90
       8.92    2633.83         1.04        5.05        0.70       0.03     2634.92       2631.00
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  0.001982       0.049        0.060       0.045       0.080       0.05       -0.00       275.00
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 0.001982      0.049     0.080     0.045     0.080      0.05     -0.00    275.00
              2625.60       10.       10.       10.       26.       24.    325.00        57.


CCHV=   0.100 CEHV=   0.800
*SECNO 1.900

3470 ENCROACHMENT STATIONS=      575.0     645.0  TYPE=      1  TARGET=      70.000
     1.90      1565.      139.     1425.       1.      0.59         2         70.
  2634.60       0.0       71.      222.       1.      0.19         0    2632.50
     8.50   2633.76      1.97      6.42     0.84      0.11   2635.19    2633.00
 0.006060      0.049     0.100     0.055     0.100     0.16     -0.00     575.00
              2626.10       35.       35.       35.       50.       20.    645.00        57.


CCHV=   0.100 CEHV=   0.500
*SECNO 1.900

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=      575.0     645.0  TYPE=      1  TARGET=      70.000
     1.90      1565.      118.     1446.       1.      0.60         0         70.
  2634.64       0.0       72.      223.       2.      0.02         0    2632.50
     8.54   2633.84      1.64      6.47     0.69      0.05   2635.24    2633.00
 0.004086      0.049     0.100     0.045     0.100     0.01     -0.00     575.00
              2626.10       10.       10.       10.       50.       20.    645.00        57.


SPECIAL BRIDGE

SB      HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA       SS
      1.25        1.60      3.00        0.0    20.00      0.20     115.00       0.0
    ELCHU      ELCHD
  2626.10    2626.10

*SECNO 1.900
     3700.   BRIDGE STENCL=     575.00    STENCR=     645.00

*** GR CARDS REPEATED
     AYLES CREEK                    100 YR FLOODWAY      11/11/81
    MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
    SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

PRESSURE AND WEIR FLOW

     EGPRS      EGLWC         H3      QWEIR       QPR      BAREA      TAREA       ELLC
  2639.24    2635.26       0.02       640.      926.       115.       115.    2631.90

     ELTRD
  2633.60


3470 ENCROACHMENT STATIONS=      575.0     645.0  TYPE=      1  TARGET=      70.000
     1.90      1565.      162.     1401.       2.      0.37         2         70.
  2635.88       0.0       109.      272.       3.     -0.23         0    2632.50
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     9.78   2635.05      1.49      5.16      0.55      1.01   2636.25   2633.00
 0.001995     0.049     0.100     0.045     0.100       0.0     -0.00    575.00
             2626.10       32.       32.       32.       50.       20.    645.00       57.


*SECNO 1.900

3470 ENCROACHMENT STATIONS=     575.0     645.0  TYPE=       1  TARGET=      70.000
     1.90      1565.      160.      1403.         2.      0.45         2      70.
  2635.86       0.0      108.       246.         3.      0.08         0   2632.50
     7.56   2635.04      1.48      5.69      0.88      0.03   2636.31   2633.00
 0.003327     0.049     0.130     0.050     0.030      0.04     -0.00    575.00
             2628.30       10.       10.       10.       50.       20.    645.00       57.


*SECNO 2.170

3301 HV CHANGED MORE THAN HVINS

    AYLES CREEK                  100 YR FLOODWAY      11/11/81
    MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
    SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     120.0     180.0  TYPE=       1  TARGET=      60.000
     2.17      1470.         0.      1470.         0.      1.83        20      38.
  2668.25   2668.25          0.       136.         0.      1.37        15   2671.30
     5.65   2668.25        0.0      10.85        0.0      9.12   2670.08   2674.40
 0.021302     0.049     0.130     0.045     0.150      0.69     -0.00    131.15
             2662.60      1370.     1370.     1370.       18.       19.    168.84       65.


*SECNO 2.180

*** GR CARDS REPEATED
    AYLES CREEK                  100 YR FLOODWAY      11/11/81
    MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH      WSELK      VLOB       VCH        VROB       HL         EG      LEFT/RIGHT
    SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     120.0     180.0  TYPE=       1  TARGET=      60.000
     2.18      1470.         0.      1470.         0.      1.83         1      38.
  2669.75   2669.75          0.       135.         0.      0.00         5   2672.80
     5.65   2669.77        0.0      10.85        0.0      1.28   2671.58   2675.90
 0.021334     0.049     0.130     0.045     0.150      0.00     -0.00    131.16
             2664.10       60.       60.       60.       18.       19.    168.83       65.
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 SPECIAL BRIDGE

 5227 DOWNSTREAM ELEV IS   2668.77 ,NOT   2669.75
 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

 SB     HK        XKOR      COFQ      RDLEN      BWC       BWP      BAREA      SS
       1.25      1.60      3.00       0.0      20.00      0.90     105.00     0.0
     ELCHU     ELCHD
   2664.10   2664.10

 *SECNO 2.180
      3700.   BRIDGE STENCL=    120.00    STENCR=    180.00

 *** GR CARDS REPEATED

 3301 HV CHANGED MORE THAN HVINS

 PRESSURE AND WEIR FLOW

      EGPRS     EGLWC       H3      QWEIR       QPR     BAREA      TAREA      ELLC
    2674.62   2672.94      0.0       268.      1197.      105.       105.   2669.60

      ELTRD
    2671.00


 3470 ENCROACHMENT STATIONS=     120.0     180.0  TYPE=      1  TARGET=      60.000
       2.18      1470.        0.      1470.        0.      0.51         2        51.
    2672.47       0.0         0.       256.        0.     -1.32         0   2672.80
       8.37   2672.42        0.0       5.75       0.0      1.40   2672.98   2675.90
   0.003850     0.049       0.130      0.045      0.150      0.0     -0.00    122.09
                2664.10       12.        12.        12.       27.       23.    172.89        65.

 *SECNO 2.180

 *** GR CARDS REPEATED
     AYLES CREEK                    100 YR FLOODWAY      11/11/81
    MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH      WSELK      VLOB       VCH        VROB       HL         EG       LEFT/RIGHT
    SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL


 3470 ENCROACHMENT STATIONS=     120.0     180.0  TYPE=      1  TARGET=      60.000
       2.18      1470.        0.      1470.        0.      0.50         2        51.
    2672.54       0.0         0.       259.        0.     -0.01         0   2672.80
       8.44   2672.49        0.0       5.67       0.0      0.06   2673.04   2675.90
   0.003720     0.049       0.130      0.045      0.100      0.00     -0.00    121.87
                2664.10       15.        15.        15.       28.       23.    172.99        66.


 CCHV=   0.100 CEHV=   0.800
 *SECNO 2.210

 3301 HV CHANGED MORE THAN HVINS

     AYLES CREEK                    100 YR FLOODWAY      11/11/81
```

C05

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 60.0 90.0 TYPE= 1 TARGET= 30.000

2.21	1460.	16.	1444.	0.	2.22	2	30.	
2672.97	2672.97	7.	120.	0.	1.72	14	2670.40	
5.37	2673.00	2.19	12.03	0.0	0.29	2675.20	100000.00	
0.031930	0.049	0.150	0.055	0.120	1.38	-0.00	60.00	
	2667.60	35.	35.	35.	17.	13.	90.00	66.

CCHV= 0.100 CEHV= 0.500
*SECNO 2.210

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 60.0 90.0 TYPE= 1 TARGET= 30.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 2675.00 ELREA= 2675.80

2.21	1460.	20.	1440.	0.	0.88	2	30.	
2675.56	0.0	15.	190.	0.	-1.34	0	2670.40	
7.96	2674.65	1.34	7.59	0.0	1.11	2676.44	100000.00	
0.007685	0.049	0.150	0.055	0.120	0.13	-0.00	60.00	
	2667.60	80.	80.	80.	17.	13.	90.00	66.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	25.00	0.70	148.00	0.0

ELCHU	ELCHD
2667.60	2667.60

*SECNO 2.210
3700. BRIDGE STENCL= 60.00 STENCR= 90.00

*** GR CARDS REPEATED
ERROR ELTRD.LT.MIN ROAD ELEV, ELTRD SET EQUAL TO MIN ROAD ELEV
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2677.97	2676.55	0.11	10.	1445.	148.	148.	2673.70

ELTRD
2677.51

*** NOTE: QWEIR IS GREATER THAN 0 AND ELEV IS LESS THAN ELTRD ***

D05

```
3470 ENCROACHMENT STATIONS=      60.0      90.0  TYPE=      1  TARGET=      30.000
     2.21      1460.       21.      1439.        0.      0.56         2        30.
  2677.37       0.0        20.       239.        0.     -0.33         0   2670.40
     9.77   2676.62       1.01       6.03       0.0      1.49   2677.92 100000.00
 0.003835     0.049      0.150      0.055     0.120       0.0     -0.00     60.00
             2667.60         39.        39.        39.        17.        13.     90.00        66.


*SECNO 2.210

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=      60.0      90.0  TYPE=      1  TARGET=      30.000
     2.21      1460.       18.      1442.        0.      0.96         2        30.
  2677.27       0.0        14.       182.        0.      0.41         0   2672.40
     7.67   2676.38       1.28       7.92       0.0      0.10   2678.23 100000.00
 0.007240     0.049      0.150      0.050     0.150       0.20     -0.00     60.00
             2669.60         20.        20.        20.        17.        13.     90.00        66.


*SECNO 2.290

3301 HV CHANGED MORE THAN HVINS

     AYLES CREEK                 100 YR FLOODWAY      11/11/81
    MILE       Q          QLOB       QCH        QROB       HV         ITRIAL     TOPWID
    ELEV       CRIWS      ALOB       ACH        AROB       DHV        IDC        BANK ELEV
    DEPTH      WSELK      VLOB       VCH        VROB       HL         EG         LEFT/RIGHT
    SLOPE      WTN        XNL        XNCH       XNR        OLOSS      CORAR      SSTA
               ELMIN      XLOBL      XLCH       XLOBR      WSDL       WSDR       ENDST       VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=      50.0      90.0  TYPE=      1  TARGET=      40.000
     2.29      1430.       16.      1414.        0.      1.82        11        40.
  2682.84   2682.84         8.       130.        0.      0.86        19   2680.80
     5.34   2682.79       1.92      10.89       0.0      4.63   2684.66 100000.00
 0.025084     0.049      0.150      0.050     0.130       0.43     -0.00     50.00
             2677.50        380.       380.       380.        22.        18.     89.57        68.
```

THIS RUN EXECUTED 11/11/81 7:49:04

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
  ERROR CORR -  01,02,03
  MODIFICATION -  50,51,52,53,54
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER
INDICATES MESSAGE IN SUMMARY OF ERRORS LIST/

AYLES CREEK

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
	0.030	2455.[illegible]	0.0	2457.28	94.	0.	0.	0.	614.	644.	6.	2152.	62.
	0.030	2456.9[illegible]	1.00	2457.92	55.	55.	610.	665.	614.	644.	9.	2111.	99.
	0.030	2456.61	0.0	2457.61	95.	0.	0.	0.	614.	644.	45.	2055.	121.
	0.030	2457.23	0.62	2458.14	55.	55.	610.	665.	614.	644.	12.	2091.	117.
	0.030	2457.27	0.0	2458.02	96.	0.	0.	0.	614.	644.	91.	1958.	171.
	0.030	2458.17	0.89	2458.86	55.	55.	610.	665.	614.	644.	18.	2035.	167.
	0.030	2457.50	0.0	2458.08	165.	0.	0.	0.	614.	644.	115.	1613.	492.
	0.030	2458.09	0.59	2459.02	55.	55.	610.	665.	614.	644.	21.	1998.	201.
	0.080	2458.44	0.0	2459.02	274.	0.	0.	0.	364.	400.	329.	1492.	379.
	0.080	2459.42	0.97	2459.85	150.	150.	325.	475.	364.	400.	197.	1493.	510.
	0.080	2459.00	0.0	2459.35	292.	0.	0.	0.	364.	400.	410.	1339.	450.
	0.080	2459.70	0.70	2460.07	150.	150.	325.	475.	364.	400.	206.	1455.	539.
*	0.080	2460.20	0.0	2460.35	311.	0.	0.	0.	364.	400.	541.	1102.	557.
*	0.080	2461.35	1.15	2461.53	150.	150.	325.	475.	364.	400.	244.	1289.	668.
*	0.080	2460.25	0.0	2461.50	258.	0.	0.	0.	364.	400.	192.	1840.	167.
	0.080	2461.02	0.77	2461.95	150.	150.	325.	475.	364.	400.	136.	1825.	240.
	0.150	2464.10	0.0	2464.88	242.	0.	0.	0.	505.	543.	378.	1556.	241.
	0.150	2463.89	-0.20	2464.98	150.	150.	425.	575.	505.	543.	305.	1688.	183.
	0.160	2464.80	0.0	2465.59	242.	0.	0.	0.	505.	543.	376.	1558.	241.
	0.160	2465.00	0.20	2465.78	150.	150.	425.	575.	505.	543.	375.	1592.	208.
*	0.160	2465.52	0.0	2465.91	292.	0.	0.	0.	505.	543.	539.	1346.	290.
*	0.160	2466.12	0.60	2466.49	150.	150.	425.	575.	505.	543.	520.	1403.	252.
	0.160	2465.54	0.0	2466.04	294.	0.	0.	0.	505.	543.	448.	1461.	266.
	0.160	2466.13	0.59	2466.60	150.	150.	425.	575.	505.	543.	426.	1520.	229.
*	0.260	2471.69	0.0	2473.46	84.	0.	0.	0.	60.	92.	100.	1798.	237.
*	0.260	2471.56	-0.13	2473.63	60.	60.	50.	110.	60.	92.	81.	1862.	192.

FO5

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
	0.270	2472.60	0.0	2474.11	70.	0.	0.	0.	60.	92.	0.	1846.	289.
	0.270	2472.74	0.14	2474.35	50.	60.	50.	110.	60.	92.	0.	1917.	218.
	0.270	2474.76	0.0	2475.26	102.	0.	0.	0.	60.	92.	186.	1589.	360.
	0.270	2475.17	0.41	2475.81	60.	60.	50.	110.	60.	92.	119.	1789.	227.
*	0.280	2475.73	0.0	2477.55	84.	0.	0.	0.	60.	92.	76.	1827.	232.
*	0.280	2475.59	-0.14	2477.72	60.	60.	50.	110.	60.	92.	61.	1887.	187.
*	0.420	2493.61	0.0	2495.10	126.	0.	0.	0.	160.	194.	0.	1645.	435.
	0.420	2493.67	0.06	2495.25	95.	95.	160.	255.	160.	194.	0.	1695.	385.
*	0.430	2495.62	0.0	2497.10	124.	0.	0.	0.	160.	194.	0.	1644.	436.
*	0.430	2495.57	-0.05	2497.26	95.	95.	160.	255.	160.	194.	0.	1706.	374.
	0.430	2497.75	0.0	2498.19	155.	0.	0.	0.	160.	194.	39.	1416.	624.
	0.430	2498.22	0.47	2498.70	95.	95.	160.	255.	160.	194.	0.	1526.	554.
	0.430	2497.92	0.0	2498.25	123.	0.	0.	0.	160.	252.	0.	2041.	39.
	0.430	2498.48	0.56	2498.76	95.	95.	160.	255.	160.	252.	0.	2073.	7.
	0.480	2498.61	0.0	2499.61	66.	0.	0.	0.	40.	100.	0.	2050.	10.
	0.480	2498.99	0.37	2499.85	58.	60.	40.	100.	40.	100.	0.	2060.	0.
	0.480	2499.47	0.0	2500.81	72.	0.	0.	0.	60.	78.	273.	1366.	421.
	0.480	2499.67	0.20	2500.94	59.	60.	40.	100.	60.	78.	275.	1361.	425.
*	0.480	2502.53	0.0	2502.86	164.	0.	0.	0.	60.	78.	266.	1090.	704.
*	0.480	2502.57	0.04	2503.11	60.	60.	40.	100.	60.	78.	300.	1289.	471.
	0.480	2502.39	0.0	2503.16	70.	0.	0.	0.	40.	100.	0.	2042.	18.
	0.480	2502.57	0.18	2503.31	58.	60.	40.	100.	40.	100.	0.	2060.	0.
	0.570	2507.88	0.0	2509.59	56.	0.	0.	0.	201.	245.	5.	2019.	0.
	0.570	2507.92	0.04	2509.61	45.	45.	200.	245.	201.	245.	1.	2024.	0.
	0.580	2509.74	0.0	2510.68	44.	0.	0.	0.	201.	245.	0.	2025.	0.
	0.580	2509.81	0.06	2510.72	44.	45.	200.	245.	201.	245.	0.	2025.	0.
*	0.580	2512.58	0.0	2512.91	110.	0.	0.	0.	201.	245.	152.	1856.	17.
*	0.580	2512.84	0.26	2513.24	45.	45.	200.	245.	201.	245.	2.	2023.	0.
	0.580	2512.29	0.0	2513.35	68.	0.	0.	0.	201.	245.	23.	1999.	2.
	0.580	2512.64	0.35	2513.61	45.	45.	200.	245.	201.	245.	2.	2023.	0.
*	0.690	2520.85	0.0	2522.49	115.	0.	0.	0.	250.	276.	256.	1715.	13.
*	0.690	2520.76	-0.09	2522.58	90.	90.	190.	280.	250.	276.	213.	1759.	13.
*	0.700	2523.01	0.0	2524.67	111.	0.	0.	0.	250.	276.	321.	1653.	11.
*	0.700	2522.95	-0.06	2524.71	90.	90.	190.	280.	250.	276.	300.	1675.	10.
	0.700	2523.73	0.0	2524.81	121.	0.	0.	0.	250.	276.	421.	1549.	14.
	0.700	2524.29	0.56	2525.17	90.	90.	190.	280.	250.	276.	439.	1529.	17.
	0.720	2524.12	0.0	2525.89	74.	0.	0.	0.	89.	121.	21.	1941.	18.
	0.720	2524.57	0.45	2526.05	60.	60.	75.	135.	89.	121.	28.	1926.	26.

G05

G05

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
	0.720	2525.35	0.0	2526.40	79.	0.	0.	0.	89.	121.	61.	1857.	62.
*	0.720	2525.93	0.57	2526.84	60.	60.	75.	135.	89.	121.	55.	1873.	53.
	0.720	2525.39	0.0	2526.56	79.	0.	0.	0.	89.	121.	71.	1847.	62.
	0.720	2525.95	0.56	2526.98	60.	60.	75.	135.	89.	121.	62.	1866.	52.
	0.800	2530.55	0.0	2531.94	52.	0.	0.	0.	93.	135.	1.	1944.	0.
	0.800	2530.42	-0.13	2531.88	48.	70.	65.	135.	93.	135.	0.	1945.	0.
	0.810	2531.90	0.0	2532.46	92.	0.	0.	0.	93.	135.	73.	1869.	3.
	0.810	2531.87	-0.03	2532.45	70.	70.	65.	135.	93.	135.	65.	1880.	0.
*	0.810	2534.38	0.0	2534.64	119.	0.	0.	0.	93.	135.	189.	1744.	12.
*	0.810	2535.06	0.67	2535.30	70.	70.	65.	135.	93.	135.	151.	1794.	0.
	0.810	2534.27	0.0	2534.81	93.	0.	0.	0.	93.	135.	84.	1856.	5.
	0.810	2534.98	0.72	2535.42	70.	70.	65.	135.	93.	135.	101.	1844.	0.
*	0.910	2537.78	0.0	2538.91	220.	0.	0.	0.	248.	288.	176.	1705.	29.
*	0.910	2537.33	-0.45	2539.21	70.	70.	230.	300.	248.	288.	4.	1893.	12.
	0.920	2538.78	0.0	2539.26	253.	0.	0.	0.	248.	288.	381.	1454.	75.
	0.920	2538.86	0.08	2539.76	70.	70.	230.	300.	248.	288.	52.	1815.	43.
*	0.920	2538.79	0.0	2539.26	254.	0.	0.	0.	248.	288.	384.	1449.	76.
*	0.920	2539.70	0.92	2540.35	70.	70.	230.	300.	248.	288.	74.	1780.	56.
	0.920	2538.84	0.0	2539.31	256.	0.	0.	0.	248.	288.	521.	1276.	113.
	0.920	2539.66	0.82	2540.50	70.	70.	230.	300.	248.	288.	102.	1724.	84.
*	1.250	2560.18	0.0	2560.93	355.	0.	0.	0.	412.	440.	612.	1176.	8.
*	1.250	2560.42	0.24	2562.74	40.	40.	410.	450.	412.	440.	3.	1783.	8.
*	1.280	2566.84	0.0	2567.52	357.	0.	0.	0.	412.	440.	634.	1141.	10.
*	1.280	2566.98	0.14	2569.32	40.	40.	410.	450.	412.	440.	3.	1774.	7.
*	1.590	2591.06	0.0	2593.15	35.	0.	0.	0.	55.	100.	0.	1675.	0.
	1.590	2592.12	1.05	2593.42	39.	45.	55.	100.	55.	100.	0.	1675.	0.
	1.590	2592.73	0.0	2593.74	40.	0.	0.	0.	55.	100.	0.	1675.	0.
	1.590	2592.83	0.10	2593.80	41.	45.	55.	100.	55.	100.	0.	1675.	0.
	1.590	2592.77	0.0	2593.77	41.	0.	0.	0.	55.	100.	0.	1675.	0.
	1.590	2592.91	0.15	2593.86	41.	45.	55.	100.	55.	100.	0.	1675.	0.
*	1.600	2593.64	0.0	2595.48	43.	0.	0.	0.	55.	100.	0.	1675.	0.
*	1.600	2593.65	0.01	2595.48	43.	45.	55.	100.	55.	100.	0.	1675.	0.
*	1.870	2627.54	0.0	2628.49	322.	0.	0.	0.	278.	324.	134.	1436.	5.
	1.870	2627.05	-0.49	2628.69	46.	50.	275.	325.	278.	324.	0.	1575.	0.
*	1.880	2632.13	0.0	2633.07	336.	0.	0.	0.	285.	306.	331.	1115.	129.
*	1.880	2631.67	-0.46	2633.85	47.	50.	275.	325.	285.	306.	58.	1398.	119.
	1.880	2633.66	0.0	2633.87	347.	0.	0.	0.	285.	306.	620.	787.	168.
	1.880	2633.93	0.27	2634.84	50.	50.	275.	325.	285.	306.	77.	1319.	179.

H05

H05

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
	1.880	2633.83	0.0	2633.90	348.	0.	0.	0.	278.	324.	701.	792.	82.
	1.880	2634.52	0.70	2634.92	50.	50.	275.	325.	278.	324.	8.	1564.	2.
	1.900	2633.76	0.0	2634.50	206.	0.	0.	0.	605.	644.	181.	1383.	1.
	1.900	2634.60	0.84	2635.19	70.	70.	575.	645.	605.	644.	139.	1425.	1.
	1.900	2633.84	0.0	2634.57	207.	0.	0.	0.	605.	644.	167.	1397.	1.
	1.900	2634.64	0.80	2635.24	70.	70.	575.	645.	605.	644.	118.	1446.	1.
	1.900	2635.05	0.0	2635.32	414.	0.	0.	0.	605.	644.	398.	1162.	6.
	1.900	2635.88	0.83	2636.25	70.	70.	575.	645.	605.	644.	162.	1401.	2.
	1.900	2635.04	0.0	2635.38	414.	0.	0.	0.	605.	644.	398.	1157.	9.
	1.900	2635.86	0.82	2636.31	70.	70.	575.	645.	605.	644.	160.	1403.	2.
*	2.170	2668.25	0.0	2670.08	38.	0.	0.	0.	121.	178.	0.	1470.	0.
*	2.170	2668.25	0.00	2670.08	38.	60.	120.	180.	121.	178.	0.	1470.	0.
*	2.180	2669.77	0.0	2671.58	38.	0.	0.	0.	121.	178.	0.	1470.	0.
*	2.180	2669.75	-0.01	2671.58	38.	60.	120.	180.	121.	178.	0.	1470.	0.
*	2.180	2672.42	0.0	2672.94	51.	0.	0.	0.	121.	178.	0.	1470.	0.
*	2.180	2672.47	0.05	2672.98	51.	60.	120.	180.	121.	178.	0.	1470.	0.
	2.180	2672.49	0.0	2673.00	51.	0.	0.	0.	121.	178.	0.	1470.	0.
	2.180	2672.54	0.05	2673.04	51.	60.	120.	180.	121.	178.	0.	1470.	0.
*	2.210	2673.00	0.0	2674.66	71.	0.	0.	0.	63.	90.	46.	1313.	101.
*	2.210	2672.97	-0.02	2675.20	30.	30.	60.	90.	63.	90.	16.	1444.	0.
	2.210	2674.65	0.0	2675.86	27.	0.	0.	0.	63.	90.	0.	1460.	0.
	2.210	2675.56	0.91	2676.44	30.	30.	60.	90.	63.	90.	20.	1440.	0.
	2.210	2676.62	0.0	2676.85	201.	0.	0.	0.	63.	90.	82.	1005.	373.
	2.210	2677.37	0.75	2677.92	30.	30.	60.	90.	63.	90.	21.	1439.	0.
	2.210	2676.38	0.0	2677.22	94.	0.	0.	0.	63.	90.	63.	1254.	143.
	2.210	2677.27	0.89	2678.23	30.	30.	60.	90.	63.	90.	18.	1442.	0.
*	2.290	2682.79	0.0	2684.42	54.	0.	0.	0.	54.	90.	81.	1349.	0.
*	2.290	2682.84	0.05	2684.66	40.	40.	50.	90.	54.	90.	16.	1414.	0.

SUMMARY OF ERRORS

CAUTION SECNO= 0.080 PROFILE= 1 HYDRAULIC JUMP D.S.
CAUTION SECNO= 0.080 PROFILE= 2 HYDRAULIC JUMP D.S.

CAUTION SECNO= 0.080 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.080 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 0.080 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.160 PROFILE= 1 HYDRAULIC JUMP D.S.

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 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    0.160  PROFILE= 1  HYDRAULIC JUMP D.S.
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 CAUTION  SECNO=    0.160  PROFILE= 2  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    0.260  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.260  PROFILE= 2  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    0.280  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.280  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    0.280  PROFILE= 1
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    0.280  PROFILE= 2  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    0.420  PROFILE= 1  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    0.430  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.430  PROFILE= 2  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    0.480  PROFILE= 1  HYDRAULIC JUMP D.S.
 CAUTION  SECNO=    0.480  PROFILE= 2  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    0.580  PROFILE= 1  HYDRAULIC JUMP D.S.
 CAUTION  SECNO=    0.580  PROFILE= 2  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    0.690  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.690  PROFILE= 2  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    0.700  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.700  PROFILE= 2  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    0.720  PROFILE= 2  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    0.810  PROFILE= 1  HYDRAULIC JUMP D.S.
 CAUTION  SECNO=    0.810  PROFILE= 2  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    0.910  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    0.910  PROFILE= 2  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    0.920  PROFILE= 1  HYDRAULIC JUMP D.S.
 CAUTION  SECNO=    0.920  PROFILE= 2  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    1.250  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.250  PROFILE= 2  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    1.280  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.280  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    1.280  PROFILE= 1
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    1.280  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.280  PROFILE= 2
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    1.280  PROFILE= 2
  20 TRIALS ATTEMPTED TO BALANCE WSEL

 CAUTION  SECNO=    1.590  PROFILE= 1  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    1.600  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.600  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    1.600  PROFILE= 1
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 CAUTION  SECNO=    1.600  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    1.600  PROFILE= 1
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  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    1.600  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.600  PROFILE= 2
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    1.600  PROFILE= 2
  20 TRIALS ATTEMPTED TO BALANCE WSEL

 CAUTION  SECNO=    1.870  PROFILE= 1  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    1.880  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.880  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    1.880  PROFILE= 1
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    1.880  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    1.880  PROFILE= 2
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    1.880  PROFILE= 2
  20 TRIALS ATTEMPTED TO BALANCE WSEL

 CAUTION  SECNO=    2.170  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.170  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    2.170  PROFILE= 1
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    2.170  PROFILE= 2  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.170  PROFILE= 2
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    2.170  PROFILE= 2
  20 TRIALS ATTEMPTED TO BALANCE WSEL

 CAUTION  SECNO=    2.180  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.180  PROFILE= 2  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    2.180  PROFILE= 1  HYDRAULIC JUMP D.S.
 CAUTION  SECNO=    2.180  PROFILE= 2  HYDRAULIC JUMP D.S.

 CAUTION  SECNO=    2.210  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.210  PROFILE= 2  CRITICAL DEPTH ASSUMED

 CAUTION  SECNO=    2.290  PROFILE= 1  CRITICAL DEPTH ASSUMED
 CAUTION  SECNO=    2.290  PROFILE= 1
  PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION  SECNO=    2.290  PROFILE= 1
  20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION  SECNO=    2.290  PROFILE= 2  CRITICAL DEPTH ASSUMED
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FLOODWAY DATA, AYLES CREEK
PROFILE NO. 2

STATION	FLOODWAY WIDTH (FT)	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
0.030	55.	303.	7.3	2456.9	2455.9	1.0
0.030	55.	320.	6.9	2457.2	2456.6	0.6
0.030	55.	373.	6.0	2458.2	2457.3	0.9
0.030	55.	324.	6.9	2458.1	2457.5	0.6
0.080	150.	575.	3.8	2459.4	2458.4	1.0
0.080	150.	617.	3.6	2459.7	2459.0	0.7
0.080	150.	864.	2.5	2461.4	2460.2	1.2
0.080	150.	470.	4.7	2461.0	2460.2	0.8
0.150	150.	352.	6.2	2464.1	2464.1	0.0
0.160	150.	413.	5.3	2465.0	2464.8	0.2
0.160	150.	581.	3.7	2466.1	2465.5	0.6
0.160	150.	578.	3.8	2466.1	2465.5	0.6
0.260	60.	232.	9.2	2471.7	2471.7	0.0
0.270	60.	252.	8.5	2472.7	2472.6	0.1
0.270	60.	431.	5.0	2475.2	2474.8	0.4
0.280	60.	234.	9.1	2475.7	2475.7	0.0
0.420	95.	303.	6.9	2493.7	2493.6	0.1
0.430	95.	293.	7.1	2495.6	2495.6	0.0
0.430	95.	546.	3.8	2498.2	2497.8	0.4
0.430	95.	495.	4.2	2498.5	2497.9	0.6
0.480	60.	277.	7.4	2499.0	2498.6	0.4
0.480	60.	316.	6.5	2499.7	2499.5	0.2
0.480	60.	490.	4.2	2502.6	2502.5	0.1
0.480	60.	299.	6.9	2502.6	2502.4	0.2
0.570	45.	195.	10.4	2507.9	2507.9	0.0
0.580	45.	264.	7.7	2509.8	2509.7	0.1
0.580	45.	403.	5.0	2512.8	2512.6	0.2
0.580	45.	259.	7.8	2512.6	2512.3	0.3
0.690	90.	261.	7.6	2520.9	2520.9	0.0
0.700	90.	270.	7.3	2523.0	2523.0	0.0
0.700	90.	391.	5.1	2524.3	2523.7	0.6
0.720	60.	235.	8.4	2524.6	2524.1	0.5
0.720	60.	316.	6.3	2525.9	2525.4	0.5
0.720	60.	303.	6.5	2526.0	2525.4	0.6
0.800	70.	201.	9.7	2530.5	2530.5	0.0
0.810	70.	363.	5.4	2531.9	2531.9	0.0
0.810	70.	586.	3.3	2535.1	2534.4	0.7
0.810	70.	419.	4.6	2535.0	2534.3	0.7
0.910	70.	185.	10.3	2537.8	2537.8	0.0
0.920	70.	292.	6.5	2538.9	2538.8	0.1
0.920	70.	351.	5.4	2539.7	2538.8	0.9
0.920	70.	308.	6.2	2539.7	2538.8	0.9
1.250	40.	152.	11.8	2560.4	2560.2	0.2
1.280	40.	151.	11.8	2567.0	2566.8	0.2
1.590	45.	183.	9.1	2592.1	2591.1	1.0
1.590	45.	211.	7.9	2592.8	2592.7	0.1
1.590	45.	215.	7.8	2592.9	2592.8	0.1
1.600	45.	155.	10.8	2593.7	2593.6	0.1
1.870	50.	153.	10.3	2627.5	2627.5	0.0
1.880	50.	179.	8.8	2632.1	2632.1	0.0

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1.880	50.	292.	5.4	2633.9	2633.7	0.2
1.880	50.	321.	4.9	2634.5	2633.8	0.7
1.900	70.	294.	5.3	2634.6	2633.8	0.8
1.900	70.	297.	5.3	2634.6	2633.8	0.8
1.900	70.	384.	4.1	2635.9	2635.0	0.9
1.900	70.	358.	4.4	2635.9	2635.0	0.9
2.170	60.	136.	10.8	2668.3	2668.3	0.0
2.180	60.	135.	10.9	2669.8	2669.8	0.0
2.180	60.	256.	5.7	2672.5	2672.4	0.1
2.180	60.	259.	5.7	2672.5	2672.5	0.0
2.210	30.	127.	11.5	2673.0	2673.0	0.0
2.210	30.	205.	7.1	2675.6	2674.6	1.0
2.210	30.	259.	5.6	2677.4	2676.6	0.8
2.210	30.	196.	7.4	2677.3	2676.4	0.9
2.290	40.	138.	10.4	2682.8	2682.8	0.0

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