APACHE WASH
FLOOD INSURANCE STUDY

EXHIBIT 1

PREPARED FOR
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY, ARIZONA

Contract FCD 89-66
JJA/DEA Job No. MARI0001

Prepared by:

JERRY R. JONES & ASSOCIATES, INC.
(A David Evans and Associates, Inc. Company)
2929 East Camelback Road
Suite 240
Phoenix, AZ 85016
(602) 956-9850

Engineers ▪ Planners ▪ Surveyors

Property of
Flood Control District of MC Library
Please Return to
2801 W. Durango
Phoenix, AZ 85009

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Michael G. Rhodes

Registered Professional Engineer (Civil)
CERTIFICATE NO.
17925
MICHAEL G.
RHODES
Date Signed 8/28/92
ARIZONA, U.S.A.

Engineers ▪ Planners ▪ Surveyors

TABLE OF CONTENTS

1. APACHE WASH

   A. APACHE WASH WEIR FLOW BETWEEN STA. 3.07 AND 3.32

   B. APACHE WASH WEIR FLOW BETWEEN STA. 4.05 AND 4.9

2. PARADISE WASH

3. PARADISE WASH - WEST BRANCH

4. RANIERI TANK WASH

5. DESERT HILLS WASH

6. DESERT HILLS WASH - WEST BRANCH

7. ~~JONATHAN~~ WASH Desert Lake Wash

8. MESQUITE TANK WASH

9. APACHE WASH HEC-1

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Registered Professional Engineer (Civil)
CERTIFICATE NO.
17925
MICHAEL G.
RHODES
Date Signed 8/28/92
ARIZONA, U. S. A.

THIS RUN EXECUTED 13JUL92 13:13:35

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.0;  February 1991
************************************


THIS IS AN ARCHIVAL RUN ALL DATA AND RESULTS ARE SAVED ON UNIT   96

AC
AC AERIAL MAPPING:  KENNEY AERIAL MAPPING CO. -- DATE  JULY-NOV. 1990
AC                  1130 W. FILLMORE PHX. AZ. 85007
AC                  PHONE (602) 258-6471   ELLIS HYDE
AC
AC SURVEY CONTROL:  McCUEN GPS INC. -- DATE  JUNE 1990
AC                  8948 W. CALLE LEJOS PEORIA AZ.
AC                  PHONE (602) 995-8445   GLEN McCUEN R.L.S.
AC
AC HYDROLOGY & FIS: JERRY R. JONES & ASSOC. -- DATE FEB 89-JUNE 91
AC                  2929 E. CAMELBACK ROAD
AC                  PHX. AZ. 85016
AC                  PHONE (602) 956-9850   ROGER BAELE P.E.
AC
AC                  APACHE WASH
AC
AC APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
AC FCD 89-66 -- FILENAME  APACHE.DAT    JJA NO. 290-018
T3 REV.  6-22-92  APACHE WASH -- 100 YEAR FLOW WITHOUT ENCROACHMENT

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        5        0        0      .005       0        0     17136    1657.1     0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0       -1        0        0        0       -1        0        0        15


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    115       150       200

NC     0.07      0.07     0.055      0.1        0.3
ET                3.1      9600     10190
        ************************************************************************
         PONDING FROM CAVE BUTTES RESERVOIR ELEVATION 1657.1; Q100=17,136 CFS
        ************************************************************************
X1     0.20        35    9967.74   10039.40      0.0       0.0       0.0       0.0       0.0       0.0
GR   1672.0   9106.00   1672.00    9106.59   1670.00   9164.69   1668.00   9201.55   1666.00   9225.67
GR   1664.0   9249.76   1662.00    9269.28   1660.00   9288.16   1658.00   9525.13   1658.00   9560.23
GR   1658.0   9606.89   1656.00    9642.09   1656.00   9673.50   1656.00   9827.21   1654.00   9904.07
GR   1652.0   9939.90   1650.00    9967.74   1648.00   9974.66   1646.00   9981.50   1646.00  10015.70
GR   1648.0  10020.38   1650.00   10025.00   1652.00  10029.82   1654.00  10034.56   1656.00  10039.40
```

[illegible]	1656.0	10066.58	1656.00	10160.82	1658.00	10176.86	1660.00	10191.81	1662.00	10208.08
GR	1664.0	10226.71	1666.00	10245.48	1668.00	10319.02	1670.00	10495.71	1670.00	10500.00
ET		3.1	9900	10300						
X1	0.33	22	9920	10090	350	700	650			
GR	1670	9558	1662	9645	1660	9722	1660	9820	1662	9900
GR	1660	9920	1654	9970	1652.2	9980	1652.2	10020	1654	10040
GR	1658	10090	1658	10135	1652.6	10150	1656	10170	1658	10220
GR	1660	10250	1662	10305	1664	10375	1664	10515	1666	10570
GR	1668	10720	1670	10775						
ET		3.1	9900	10368						
X1	0.43	23	9950	10035	505	440	500			
GR	1676	9580	1666	9730	1664	9900	1662	9940	1660	9950
GR	1656	9980	1655	9985	1655	10015	1656	10020	1660	10035
GR	1661.8	10050	1661.8	10120	1660	10190	1658	10240	1660	10270
GR	1662	10290	1662	10350	1660	10405	1660	10430	1662	10500
GR	1664	10535	1666	10620	1670	10715				
ET		3.1	9840	10340						
X1	0.54	35	9965.00	10027.02	800	400	640	0.0	0.0	0.0
GR	1684.0	9200.00	1676.00	9290.00	1674.00	9340.00	1672.00	9450.00	1670.00	9600.00
GR	1668.0	9840.00	1664.00	9875.00	1664.00	9965.00	1660.00	9974.34	1660.00	9974.39
GR	1660.0	9974.39	1660.00	10019.28	1660.00	10019.28	1660.00	10019.49	1662.00	10023.02
GR	1662.0	10023.02	1662.00	10023.25	1664.00	10027.02	1664.00	10027.05	1664.00	10027.06
GR	1666.0	10068.43	1666.00	10068.89	1666.00	10068.89	1666.00	10198.37	1666.00	10198.64
GR	1666.0	10255.88	1666.00	10256.31	1666.00	10278.10	1666.00	10360.71	1664.00	10418.56
GR	1664.0	10470.56	1666.00	10510.35	1668.00	10530.78	1670.00	10614.05	1674.00	10680.93
[illegible]		3.1	9662	10180						
X1	0.63	45	9967.27	10044.06	300	600	500	0.0	0.0	0.0
GR	1678.0	9000.00	1678.00	9021.82	1678.00	9023.80	1676.00	9089.33	1676.00	9089.53
GR	1674.0	9196.04	1672.00	9300.00	1672.00	9418.17	1672.00	9467.58	1672.00	9467.59
GR	1672.0	9467.59	1670.00	9524.47	1670.00	9524.47	1670.00	9524.59	1670.00	9629.26
GR	1670.0	9630.41	1670.00	9661.89	1670.00	9662.28	1668.00	9798.92	1668.00	9798.92
GR	1668.0	9852.54	1668.00	9856.43	1668.00	9967.22	1668.00	9967.27	1666.00	9971.89
GR	1666.0	9971.91	1664.00	9976.44	1664.00	9976.56	1664.00	10025.48	1664.00	10025.48
GR	1666.0	10033.05	1666.00	10033.09	1668.00	10044.06	1668.00	10044.68	1668.00	10128.35
GR	1668.0	10128.42	1668.00	10151.63	1668.00	10151.63	1670.00	10172	1670.00	10172
GR	1672.0	10188	1672.00	10188	1674.00	10267.84	1676.00	10318.63	1678.00	10393.26
ET		3.1	9730	10150						
X1	0.71	40	9973.94	10070.56	370	440	400	0.0	0.0	0.0
GR	1680.0	9258.90	1678.00	9328.02	1676.00	9410.74	1674.00	9517.84	1672.00	9806.35
GR	1672.0	9806.66	1670.00	9929.72	1670.00	9930.71	1668.00	9973.93	1668.00	9973.94
GR	1666.0	9979.82	1666.00	9979.90	1664.00	9985.76	1664.00	9985.80	1664.00	10015.71
GR	1664.0	10015.90	1666.00	10024.34	1666.00	10024.46	1668.00	10029.59	1668.00	10030.23
GR	1668.0	10045.83	1668.00	10045.97	1666.00	10052.42	1666.00	10052.62	1666.00	10063.21
GR	1666.0	10063.30	1668.00	10070.56	1668.00	10070.63	1670.00	10089.81	1670.00	10092.70
GR	1672.0	10125.78	1672.00	10126.63	1674.00	10161.49	1674.00	10162.73	1676.00	10201.55
GR	1676.0	10201.61	1678.00	10269.53	1678.00	10269.53	1680.00	10438.22	1682.00	10523.85

NC	0.07	0.07	0.055	0.3	0.5					
ET		3.1	9750	10214						
X1	0.75	55	9943.82	10027.72	180	210	200	0.0	0.0	0.0
GR	1686.0	9238.04	1684.00	9283.63	1682.00	9320.34	1680.00	9357.26	1678.00	9398.37
GR	1676.0	9509.61	1674.00	9623.97	1674.00	9819.83	1674.00	9823.85	1674.00	9849.05
GR	1674.0	9850.71	1672.00	9883.74	1672.00	9884.15	1670.00	9943.61	1670.00	9943.82
GR	1668.0	9967.12	1668.00	9967.18	1666.00	9978.01	1666.00	9978.08	1666.00	10016.12
GR	1666.0	10016.17	1668.00	10021.87	1668.00	10021.92	1670.00	10027.72	1670.00	10027.72
GR	1670.0	10059.95	1670.00	10060.05	1670.00	10080.45	1670.00	10080.56	1672.00	10093.84
GR	1672.0	10094.00	1672.00	10119.59	1672.00	10119.71	1670.00	10128.45	1670.00	10128.50
GR	1670.0	10145.70	1670.00	10145.78	1672.00	10173.10	1672.00	10173.36	1674.00	10214.32
GR	1674.0	10214.60	1674.00	10324.36	1674.00	10324.59	1674.00	10391.18	1674.00	10391.21
GR	1676.0	10479.43	1676.00	10479.48	1678.00	10551.03	1678.00	10551.49	1678.00	10563.65
GR	1680.0	10630.55	1682.00	10673.09	1684.00	10746.72	1686.00	10847.23	1688.00	10966.86
NC	0.07	0.07	0.07							
ET		3.1	9885	10280						
X1	0.84	22	9975	10030	420	430	440			
GR	1686	9780	1676	9910	1672	9975	1670	9980	1670	10020
GR	1672	10030	1673.8	10080	1672	10110	1670	10125	1674	10150
GR	1674	10230	1678	10290	1678	10320	1676	10380	1676	10400
GR	1678	10460	1680	10590	1680	10890	1678	10950	1678	11015
GR	1680	11070	1690	11295						
NC	0.07	0.07	0.055	0.1	0.3					
ET		3.1	9931	10550						
X1	0.99	32	9969.66	10026.04	890	550	900	0.0	0.0	0.0
GR	1698.0	9881.43	1696.00	9890.45	1694.00	9898.75	1692.00	9906.88	1690.00	9914.24
GR	1688.0	9920.09	1686.00	9925.53	1684.00	9931.39	1682.00	9950.02	1680.00	9969.66
GR	1678.0	9976.28	1678.00	10018.49	1680.00	10026.04	1682.00	10147.08	1682.00	10189.70
GR	1680.0	10277.01	1678.00	10326.93	1678.00	10368.20	1678.00	10378.07	1678.00	10418.53
GR	1680.0	10542.32	1682.00	10746.79	1682.00	10764.47	1682.00	10897.04	1682.00	10898.28
GR	1682.0	10913.43	1682.00	10917.62	1684.00	11420.00	1684	11490	1682	11740
GR	1684	11790	1690	11900						
NC	0.07	0.07	0.045							
ET		3.1	9923	10430						
X1	1.09	25	9960.45	10039.10	500	440	500	0.0	0.0	0.0
GR	1702.0	9882.18	1700.00	9887.93	1698.00	9893.49	1696.00	9899.07	1694.00	9904.63
GR	1692.0	9910.19	1690.00	9915.80	1688.00	9921.37	1686.00	9926.88	1684.00	9934.74
GR	1682.0	9960.45	1680.00	9968.65	1680.00	10020.29	1682.00	10028.70	1682.00	10039.10
GR	1682.0	10089.72	1686.00	10150.00	1686.00	10190.20	1684.00	10355.69	1686.00	10580.15
GR	1686.0	10925.55	1686.00	10929.48	1687	11500	1688	11610	1700	11820
NC	0.07	0.07	0.06							
ET		3.1	9885	10375						
X1	1.18	28	9937.42	10028.94	500	350	500	0.0	0.0	0.0
GR	1712.0	9420.00	1712.00	9421.00	1710.00	9500.00	1708.00	9629.93	1706.00	9660.57
GR	1704.0	9689.28	1702.00	9717.55	1700.00	9746.16	1698.00	9771.65	1696.00	9802.81
GR	1694.0	9835.83	1692.00	9879.80	1690.00	9898.73	1688.00	9912.85	1686.00	9927.29
GR	1684.0	9937.42	1682.00	9947.19	1680.00	10003.85	1680.00	10019.17	1682.00	10024.04
GR	1684.0	10028.94	1686.00	10063.29	1688.00	10104.15	1690.00	10198.56	1690.00	10670.00
GR	1692	10870	1692	11415	1700	11570				

ET		3.1	9880	10290						
X1	1.27	23	9937.31	10031.28	450	500	460	0.0	0.0	0.0
GR	1710.0	9530.00	1708.00	9550.32	1706.00	9575.57	1704.00	9590.36	1702.00	9615.90
GR	1700.0	9622.20	1698.00	9681.06	1696.00	9761.67	1694.00	9801.63	1692.00	9834.16
GR	1690.0	9884.96	1688.00	9937.31	1686.00	9956.16	1684.00	9975.71	1684.00	9991.73
GR	1686.0	10031.28	1688.00	10120.68	1690.00	10200.23	1692.00	10280.00	1694.00	10410.00
GR	1696	10520	1698.00	10820.00	1700.00	10900.00				
NC	0.07	0.07	0.055	0.3	0.5					
ET		3.1	9560	10052						
X1	1.37	23	9932.08	10030.20	400	440	500	0.0	0.0	0.0
GR	1710.0	9284.44	1708.00	9305.13	1706.00	9325.72	1704.00	9350.78	1702.00	9383.08
GR	1700.0	9429.28	1698.00	9493.05	1696.00	9549.07	1694.00	9580.08	1692.00	9932.08
GR	1690.0	9963.31	1688.00	9977.40	1688.00	10014.54	1690.00	10022.33	1692.00	10030.20
GR	1694.0	10037.90	1696.00	10045.77	1698.00	10053.61	1700.00	10073.70	1702.00	10163.35
GR	1704.0	10234.68	1706.00	10286.70	1710.00	10540.00				
NC	0.07	0.07	0.055	0.1	0.3					
ET		3.1	9570	10060						
X1	1.47	31	9964.37	10032.41	490	520	500	0.0	0.0	0.0
GR	1714.0	9277.32	1712.00	9301.68	1710.00	9320.60	1708.00	9339.84	1706.00	9361.64
GR	1704.0	9397.25	1702.00	9462.33	1700.00	9530.85	1698.00	9560.22	1696.00	9579.82
GR	1694.0	9593.84	1694.00	9593.84	1694.00	9595.90	1698.00	9800.63	1696.00	9911.62
GR	1694.0	9964.37	1692.00	9971.85	1690.00	9980.99	1690.00	10017.81	1692.00	10025.12
GR	1694.0	10032.41	1696.00	10042.54	1698.00	10056.56	1700.00	10067.04	1702.00	10103.76
GR	1704.0	10130.30	1706.00	10164.24	1708.00	10204.16	1710.00	10282.99	1712.00	10346.85
GR	1716.0	10480.00								
ET		3.1	9610	10057						
X1	1.56	35	9951.37	10028.61	400	540	500	0.0	0.0	0.0
GR	1722.0	9195.00	1722.00	9200.60	1720.00	9240.99	1718.00	9274.78	1716.00	9306.60
GR	1714.0	9337.19	1712.00	9363.90	1710.00	9384.66	1708.00	9404.50	1706.00	9426.84
GR	1704.0	9453.43	1702.00	9496.71	1700.00	9564.46	1700.00	9664.24	1700.00	9690.11
GR	1698.0	9951.37	1696.00	9973.37	1694.00	9978.24	1692.00	9983.09	1692.00	10014.85
GR	1694.0	10019.26	1696.00	10023.72	1698.00	10028.61	1700.00	10033.88	1702.00	10039.18
GR	1704.0	10058.37	1706.00	10091.18	1708.00	10120.61	1710.00	10147.29	1712.00	10178.32
GR	1714.0	10210.86	1716.00	10248.86	1718.00	10309.79	1720.00	10367.94	1722.00	10445.00
ET		3.1	9610	10049						
X1	1.60	34	9959.73	10016.94	190	180	180	0.0	0.0	
GR	1722.0	9170.00	1722.00	9172.78	1720.00	9221.64	1718.00	9251.21	1716.00	9274.81
GR	1714.0	9313.58	1712.00	9342.85	1710.00	9365.07	1708.00	9388.01	1706.00	9416.18
GR	1704.0	9448.11	1702.00	9518.79	1700.00	9799.12	1698.00	9907.12	1696.00	9959.73
GR	1694.0	9980.66	1692.00	9995.90	1692.00	10008.90	1694.00	10012.95	1696.00	10016.94
GR	1698.0	10020.86	1700.00	10024.53	1702.00	10027.88	1704.00	10031.18	1706.00	10062.39
GR	1708.0	10086.53	1710.00	10106.20	1712.00	10125.71	1714.00	10149.92	1716.00	10182.13
GR	1718.0	10243.56	1720.00	10316.07	1722.00	10399.82	1724.00	10450.64		

NC	0.07	0.07	0.055	0.3	0.5					
ET		3.1	9860	10250						
X1	1.66	30	9952.11	10034.00	300	240	250	0.0	0.0	0.0
GR	1720.0	9490.00	1718.00	9522.70	1716.00	9556.29	1714.00	9593.85	1712.00	9648.34
GR	1710.0	9708.49	1708.00	9744.33	1706.00	9785.11	1704.00	9829.76	1702.00	9931.63
GR	1700.0	9952.11	1698.00	9967.65	1696.00	9993.88	1696.00	10014.03	1698.00	10029.43
GR	1700.0	10034.00	1700.00	10102.15	1698.00	10112.65	1698.00	10118.50	1698.00	10189.52
GR	1698.0	10197.65	1700.00	10205.31	1702.00	10212.95	1704.00	10237.12	1706.00	10277.66
GR	1708.0	10306.08	1710.00	10329.50	1712.00	10356.19	1714.00	10386.31	1716.00	10422.81
NC	0.07	0.07	0.055	0.1	0.3					
ET		3.1	9953	10321						
X1	1.75	37	9970.05	10072.31	480	520	500	0.0	0.0	0.0
GR	1728.0	9627.00	1728.00	9628.93	1726.00	9726.87	1724.00	9774.56	1722.00	9826.98
GR	1720.0	9867.70	1718.00	9898.97	1716.00	9915.66	1714.00	9930.46	1712.00	9944.78
GR	1710.0	9951.17	1708.00	9956.46	1706.00	9961.13	1704.00	9965.64	1702.00	9970.05
GR	1700.0	9974.47	1698.00	9978.76	1698.00	10016.76	1700.00	10034.19	1702.00	10072.31
GR	1704.0	10151.35	1706.00	10320.71	1708.00	10429.93	1710.00	10503.73	1712.00	10539.07
GR	1714.0	10573.70	1716.00	10610.99	1718.00	10636.96	1720.00	10663.36	1720.00	10663.46
GR	1722.0	10691.17	1722.00	10691.38	1724.00	10720.35	1724.00	10720.52	1726.00	10752.55
GR	1726.0	10752.96	1728.00	10784.42						
ET		3.1	9947	10410						
X1	1.81	38	9965.71	10060.69	300	240	300	0.0	0.0	0.0
GR	1732.0	9525.00	1732.00	9525.97	1732.00	9808.07	1730.00	9857.81	1728.00	9887.91
GR	1726.0	9906.35	1724.00	9911.82	1722.00	9917.19	1720.00	9922.73	1718.00	9928.27
GR	1716.0	9933.80	1714.00	9939.22	1712.00	9944.51	1710.00	9949.80	1708.00	9955.09
GR	1706.0	9960.39	1704.00	9965.71	1702.00	9971.05	1700.00	9975.68	1700.00	10013.24
GR	1702.0	10031.00	1704.00	10060.69	1706.00	10188.05	1706.00	10206.68	1704.00	10298.14
GR	1704.0	10327.71	1706.00	10350.59	1708.00	10431.76	1710.00	10457.85	1712.00	10486.49
GR	1714.0	10535.63	1714.00	10555.63	1716.00	10590.13	1716.00	10590.33	1718.00	10637.20
GR	1718.0	10637.39	1720.00	10678.15	1720.00	10683.54				
ET		3.1	9819	10400						
X1	1.85	41	9915.83	10064.87	210	150	190	0.0	0.0	0.0
GR	1734.0	9617.00	1734.00	9617.78	1734.00	9718.01	1732.00	9749.45	1730.00	9758.46
GR	1728.0	9765.23	1726.00	9771.66	1724.00	9778.24	1722.00	9784.96	1720.00	9791.47
GR	1718.0	9798.05	1716.00	9804.78	1714.00	9811.47	1712.00	9819.07	1710.00	9828.06
GR	1708.0	9836.36	1706.00	9915.83	1704.00	9954.99	1702.00	9975.55	1700.00	10002.05
GR	1700.0	10011.48	1702.00	10026.03	1704.00	10041.54	1706.00	10064.87	1708.00	10129.94
GR	1708.0	10187.04	1706.00	10294.81	1706.00	10368.04	1708.00	10414.01	1710.00	10424.61
GR	1710.0	10432.86	1712.00	10451.94	1712.00	10451.94	1714.00	10481.60	1714.00	10483.31
GR	1716.0	10525.65	1716.00	10530.36	1718.00	10599.55	1718.00	10599.74	1720.00	10653.56
GR	1720.0	10655.77								
ET		3.1	9771	10410						
X1	1.88	18	9975	10025	190	230	200			
GR	1730	9700	1708	9790	1708	9890	1706	9950	1704	9975
GR	1702.1	9990	1702.1	10010	1704	10025	1706	10040	1708	10060
GR	1710	10085	1710	10210	1708	10300	1706	10340	1706	10370
GR	1708	10390	1710	10455	1720	10545				

		3.1	9969	10760						
X1	2.00	19	9980	10050	550	230	490			
GR	1740	9840	1738	9905	1710	9980	1708.5	9985	1708.5	10020
GR	1709	10050	1708.5	10090	1710	10115	1712	10150	1713.8	10360
GR	1712	10535	1710	10590	1708.5	10610	1708.5	10675	1710	10700
GR	1712	10755	1714	10805	1716	10830	1724	10930		
ET		3.1	9970	10620						
X1	2.08	38	9971.03	10080.47	440	270	440	0.0	0.0	0.0
GR	1750.0	9610.00	1750.00	9610.35	1748.00	9714.70	1746.00	9778.99	1744.00	9816.50
GR	1742.0	9837.83	1740.00	9858.64	1738.00	9877.26	1736.00	9893.19	1734.00	9909.01
GR	1732.0	9925.37	1730.00	9931.07	1728.00	9939.15	1726.00	9947.24	1724.00	9955.00
GR	1722.0	9959.01	1720.00	9963.02	1718.00	9967.02	1716.00	9971.03	1714.00	9975.04
GR	1712.0	9979.05	1710.00	9983.30	1710.00	10015.86	1712.00	10024.93	1714.00	10034.40
GR	1716.0	10080.47	1717.00	10200.63	1716.00	10300	1714	10360	1712	10450
GR	1710	10490	1710	10510	1712	10545	1714	10580	1716	10700
GR	1718	10745	1720	10790	1730	10970				
ET		3.1	9834	10285						
X1	2.17	23	9948.16	10055.88	500	350	520	0.0	0.0	0.0
GR	1738.0	9675.45	1736.00	9692.00	1734.00	9708.55	1732.00	9724.80	1730.00	9741.11
GR	1728.0	9757.42	1726.00	9773.73	1724.00	9790.06	1722.00	9809.96	1720.00	9833.72
GR	1718.0	9861.48	1716.00	9889.63	1716.00	9892.16	1716.00	9948.16	1714.00	9962.44
GR	1714.0	10027.88	1716.00	10055.88	1716.00	10136.87	1716.00	10199.60	1718.00	10234.24
GR	1720.0	10416.55	1722.00	10468.74	1730.00	10735.00				
ET		3.1	9850	10155						
	2.24	30	9939.57	10055.42	380	390	380	0.0	0.0	0.0
	1742.0	9530.00	1742.00	9530.38	1740.00	9598.29	1738.00	9650.09	1736.00	9688.65
GR	1734.0	9709.55	1732.00	9728.83	1730.00	9751.11	1728.00	9767.21	1726.00	9781.96
GR	1724.0	9796.25	1722.00	9825.60	1720.00	9855.35	1718.00	9939.57	1716.00	9956.56
GR	1714.0	9973.56	1714.00	10001.06	1716.00	10029.46	1718.00	10055.42	1720.00	10148.55
GR	1722.0	10166.48	1724.00	10188.25	1726.00	10215.72	1728.00	10237.62	1730.00	10263.41
GR	1732.0	10296.98	1734.00	10331.79	1736.00	10370.07	1738.00	10406.21	1740.00	10456.13
ET		3.1	9830	10042						
X1	2.33	13	9945	10030	450	450	450			
GR	1732	9720	1730	9778	1728	9800	1724	9840	1722	9870
GR	1720	9890	1720	9945	1718	9960	1717	10000	1718	10028
GR	1720	10030	1730	10045	1740	10055				
ET		3.1	9800	10047						
X1	2.40	10	9980	10020	300	370	360			
GR	1740	9705	1734	9780	1732	9795	1730	9800	1724	9840
GR	1722	9890	1720	9940	1718	9980	1718	10020	1740	10065
NC	0.07	0.07	0.055	0.3	0.5					
ET		3.1	9940	10310						
X1	2.47	27	9962.26	10027.81	340	450	400	0.0	0.0	0.0
GR	1746.0	9708.00	1746.00	9709.00	1746.00	9709.82	1744.00	9786.76	1742.00	9841.66
GR	1740.0	9866.87	1738.00	9887.60	1736.00	9904.28	1734.00	9920.54	1732.00	9942.57
GR	1730.0	9947.49	1728.00	9952.41	1726.00	9957.33	1724.00	9962.26	1722.00	9967.18
GR	1720.0	9972.10	1720.00	9990.76	1722.00	10013.06	1724.00	10027.81	1726.00	10090.10

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GR    1726.0   10100.63   1724.00   10110.13   1726.00   10200.41   1728.00   10300.68   1730.00   10340.00
GR     1734     10360     1740.00   10400.00

NC     0.07      0.07      0.055      0.1       0.3
ET               3.1       9850      10385
X1     2.52       28      9957.59   10028.76    270       250       260       0.0       0.0       0.0
GR   1748.0    9565.00   1748.00    9565.18   1746.00   9622.44   1744.00   9653.84   1742.00   9708.63
GR   1740.0    9739.13   1738.00    9769.43   1736.00   9805.03   1734.00   9840.17   1732.00   9866.23
GR   1730.0    9876.33   1728.00    9886.43   1726.00   9957.59   1724.00   9963.27   1722.00   9970.23
GR   1722.0   10021.41   1724.00   10025.07   1726.00   10028.76   1728.00   10120.86  1728.00   10211.79
GR   1728.0   10215.37   1728.00   10279.41   1728.00   10316.87   1730.00   10363.84  1732.00   10395.26
GR   1734.0   10419.34   1736.00   10459.58   1738.00   10490.34

ET               3.1       9800      10450
        ***********************************************************************
              DOWNSTREAM PARADISE WASH CONFLUENCE
        ***********************************************************************
X1     2.60       20      9945      10030      390       450       430
GR     1750      9420     1742       9540      1740      9610      1738      9680      1736      9750
GR     1734      9780     1732       9820      1732      9935      1730      9945      1724      9960
GR     1724      9965     1726      10020      1728     10030      1730     10140      1732     10265
GR     1732     10335     1730      10370      1730     10390      1734     10440      1750     10625

QT      1       13541                          13541
NC    0.065     0.065     0.050      0.6       0.9
ET               3.1       9787      10080
X1     2.73       19     9971.87   10036.42    900       350       750       0.0       0.0       0.0
GR   1750.0    9594.08   1748.00    9634.40   1746.00   9671.35   1744.00   9703.58   1742.00   9729.78
GR   1740.0    9756.45   1738.00    9787.82   1736.00   9811.88   1734.00   9885.68   1732.00   9971.87
GR   1730.0    9979.06   1728.00    9986.23   1728.00   10019.94  1730.00   10029.07  1732.00   10036.42
GR   1734.0   10071.17   1736.00   10086.17   1738.00   10101.17   1748     10235

NH      5       .065      9710       .050      9765       .065      9950       .050     10055       .065
NH   10165
ET               3.1       9530      10050
        ***********************************************************************
           THIS IS THE START OF THE DESERT HILLS WASH AND COINCIDES WITH
           SECTION 0.04.     Q100=13,541 CFS
           FLOW IS FROM APACHE WASH AND DESERT HILLS WASH
        ***********************************************************************
X1     2.82       18      9710      9765       200       500       480
GR     1750      9250     1746      9355      1738      9455      1736      9550      1736      9710
GR     1732      9735     1731      9740      1732      9745      1736      9765      1736      9950
GR     1734      9980     1730      9990      1729     10000      1730     10010      1734     10025
GR     1736     10055     1740     10085      1750     10165

NH      5       .065    9522.91     .050      9620       .065      9820       .050   10040.34     .065
NH   10725
ET               3.1       9400     10040
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      ************************************************************************
         THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.13
      ************************************************************************
X1    2.87       26    9522.91    9620.00      240       500       275       0.0       0.0       0.0
GR   1748.0    9232.0   1748.00    9232.79   1746.00   9262.53   1744.00   9290.50   1742.00   9320.00
GR   1742.0   9320.56   1740.00    9357.22   1738.00   9522.91   1736.00   9568.00   1734.00   9575.76
GR   1734.0   9591.00   1738.00    9620.00   1738.00   9700.62   1738.00   9774.16   1736.00   9800.39
GR   1736.0    9820.0   1736.00    9921.67   1734.00   9984.19   1732.00   9991.20   1732.00  10016.07
GR   1734.0  10028.20   1736.00   10040.34   1738.00  10188.50   1742.00  10250.69   1740.00  10350.34
GR    1748     10725

ET              3.1      9530      10300
NH      5      .065      9645       .050      9685       .065      9965       .050     10140       .065
NH  11000
      ************************************************************************
         THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.19
      ************************************************************************
X1    2.90       25      9645      9685       175       150       190
GR    1750     9320      1746      9390      1744      9425      1740      9500      1738      9645
GR    1734     9655    1733.5      9665      1734      9675      1738      9685      1740      9765
GR    1740     9850      1738      9965      1734      9980      1733     10000      1734     10005
GR    1736    10020      1738     10140      1740     10190      1744     10275      1738     10410
GR    1740    10440      1740     10610      1742     10675      1744     10745      1748     11000

NC                                  0.6       0.9
ET              3.1      9350      10190
NH      5      .065      9410       .050      9465       .065      9880       .050     10100       .065
NH  11135
      ************************************************************************
         THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.22
      ************************************************************************
X1    2.92       25      9410      9465       150       250       140
GR    1750     9230      1744      9310      1742      9350      1740      9410      1736      9430
GR    1735     9440      1736      9450      1740      9465      1741      9600      1740      9880
GR    1738     9975      1736      9990      1734     10000      1736     10025      1738     10035
GR    1740    10100      1742     10130      1742     10160      1738     10170      1738     10200
GR    1740    10435      1742     10625      1742     10790      1746     10925      1750     11135

QT      1     7534                          7534
NH      5      .065      9000       .050      9065       .065      9365        20      9375        20
NH  10750
ET              3.1    8995.5      9365
      ************************************************************************
         THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.31
      ************************************************************************
X1    2.97       24      9000      9065       270       270       270
GR    1752     8920      1746      8990      1744      9000      1738      9020      1738      9045
GR    1740     9055      1742      9065      1742      9170      1744      9365      1744      9375
GR    1742     9750    1741.5      9800    1741.3      9910      1740      9984    1738.0   9986.95
GR  1736.0  9989.63    1736.0   9995.85   1738.00  10007.33   1740.00  10018.70    1740.0  10238.69
GR  1740.0 10248.88    1742.0  10511.29   1744.00  10690.41   1746.00  10750.00
```

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NC    0.065     0.065     0.050       0.6       0.9
QT        1      7534                          7534
ET                 3.1      9740     10150
      ***********************************************************************
          THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.40
          BEGINNING OF SPLIT FLOW REACH FROM APACHE WASH TO DESERT HILLS WASH
          Q100=7,328 CFS
      ***********************************************************************
X1     3.07        13   9979.95  10028.11       540       420       520
GR     1760      9360      1756      9505      1754      9575      1752      9610      1748      9640
GR     1746      9665   1746.00   9912.66   1744.00   9979.95   1742.00   9988.79   1742.00  10019.37
GR   1744.0  10028.11   1746.00  10080.68   1748.00  10180.41

QT        1      7534                          7534
NC    0.065     0.065     0.050       0.6       0.9
ET                 3.1      9600     10068
      ***********************************************************************
          FLOW SPILLS OVER INTO DESERT HILLS WASH AT THIS SECTION
          Q100=7,340 CFS
      ***********************************************************************
X1     3.13        22   9978.41  10027.88       200       300       280
GR   1762.0   9160.00   1762.00   9160.32   1760.00   9275.00   1758.00   9340.00   1756.00   9387.31
GR   1754.0   9419.28   1752.00   9442.64   1750.00   9467.83   1748.00   9512.79   1748.00   9587.44
GR   1748.0   9655.10   1748.00   9675.30   1748.00   9870.47   1746.00   9978.41   1744.00   9984.92
GR   1742.0   9996.99   1742.00  10009.71   1744.00  10016.22   1746.00  10022.13   1748.00  10027.88
GR   1750.0  10067.68   1750.20  10100.00

        1      7534                          7534
ET                 3.1      9780     10170
      ***********************************************************************
          FLOW SPILLS OVER INTO DESERT HILLS WASH AT THIS SECTION
          Q100=7,529 CFS
      ***********************************************************************
X1     3.21        17      9965     10130       250       350       310
GR     1762      9355      1760      9450      1758      9505      1756      9560      1754      9595
GR     1752      9630      1750      9660      1749      9680      1750      9710      1751      9900
GR     1750      9965      1746      9990      1746     10010      1748     10070      1750     10130
GR     1752     10315    1752.1     10390

QT        1      7534                          7534
ET                 3.1      9800     10175
      ***********************************************************************
          END OF SPLIT FLOW REACH FROM APACHE WASH TO DESERT HILLS WASH
          Q100=7,534 CFS
      ***********************************************************************
X1     3.32        29   9955.22  10020.21       510       560       560
GR   1768.0   9223.00   1768.00   9223.20   1768.00   9223.26   1766.00   9330.10   1766.00   9330.58
GR   1764.0   9432.55   1764.00   9432.56   1762.00   9497.22   1762.00   9497.51   1760.00   9543.64
GR   1760.0   9544.84   1758.00   9599.26   1758.00   9599.45   1756.00   9630.94   1756.00   9632.14
GR   1754.0   9725.16   1754.00   9801.22   1754.00   9955.22   1752.00   9974.26   1750.00   9981.64
GR   1750.0  10008.82   1754.00  10020.21   1754.00  10242.15   1756.00  10416.50    1756.7     10490
GR   1756.2     10560    1756.2     10725    1756.5     10790      1758  10929.84
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ET		3.1	9800	10140						
X1	3.4	0 17	9985	10030	490	430	470			
GR	1768	9215	1766	9310	1764	9415	1762	9460	1760	9500
GR	1758	9725	1758	9865	1756	9920	1756	9985	1752	10000
GR	1754	10020	1756	10030	1758	10060	1758	10215	1760	10465
GR	1760.2	10700	1761	10850						
ET		3.1	9900	10170						
X1	3.48	23	9985.39	10018.81	360	435	450			
GR	1772.0	9086.00	1772.00	9086.01	1770.00	9203.74	1768.00	9274.51	1766.00	9344.72
GR	1764.0	9447.35	1764.00	9468.21	1766.00	9537.17	1766.00	9593.47	1764.00	9620.29
GR	1762.0	9671.60	1762.00	9835.81	1762.00	9884.13	1762.00	9911.39	1762.00	9965.97
GR	1760.0	9985.39	1758.00	9988.60	1756.00	9991.90	1756.00	10009.76	1758.00	10018.81
GR	1760.0	10110.60	1762.00	10298.95	1764.00	10615.00				
NC	0.065	0.065	0.05							
ET		3.1	9900	10141						
X1	3.52	27	9981.96	10017.06	200	200	200			
GR	1774.0	9078.00	1774.00	9078.29	1772.00	9196.00	1770.00	9265.69	1768.00	9406.56
GR	1768.0	9445.44	1770.00	9517.35	1770.00	9599.57	1768.00	9628.79	1766.00	9669.22
GR	1764.0	9704.26	1764.00	9851.82	1764.00	9883.69	1762.00	9945.91	1762.00	9949.59
GR	1762.0	9950.69	1762.00	9977.47	1762.00	9977.93	1760.00	9981.96	1758.00	9986.06
GR	1756.0	10002.04	1756.00	10006.86	1758.00	10011.86	1760.00	10017.06	1762.00	10100.32
GR	1764.0	10273.56	1766.00	10646.59						
ET		3.1	9891	10160						
X1	3.60	17	9979.85	10013.99	400	450	420			
[illegible]	1778.0	9057.00	1778.00	9057.08	1776.00	9182.31	1774.00	9255.08	1772.00	9318.50
[illegible]	1770.0	9378.25	1768.00	9475.66	1766.00	9891.47	1764.00	9979.85	1762.00	9985.11
GR	1760.0	9990.28	1760.00	10010.06	1762.00	10013.99	1764.00	10085.33	1766.00	10161.24
GR	1768.0	10247.91	1770.00	10365.75						
ET		3.1	9900	10190						
X1	3.65	9	9970.00	10015.00	250	260	280			
GR	1780.0	9100.00	1768.00	9470.00	1770.00	9580.00	1770.00	9830.00	1764.00	9970.00
GR	1762.0	9990.0	1762.00	10010.00	1764.00	10015.00	1770.00	10370.00		
ET		3.1	9960	10220						
X1	3.75	21	9975	10020	500	500	500			
GR	1780.0	9400.00	1778	9515	1776	9590	1774	9655	1772	9710
GR	1772	9725	1774	9780	1774	9945	1772	9975	1770	9985
GR	1764	9999	1764	10010	1766	10015	1768	10020	1770	10150
GR	1772	10310	1772	10800	1770	10805	1770	10815	1772	10840
GR	1776	10885								
ET		3.1	9950	10226						
X1	3.78	25	9978.40	10060.68	170	170	170			
GR	1784.0	9135.00	1784.00	9135.46	1782.00	9354.53	1780.00	9529.40	1778.00	9609.76
GR	1776.0	9660.11	1774.10	9740.00	1774.00	9978.40	1770.00	9983.58	1768.00	9988.22
GR	1766.0	9992.92	1766.00	9993.96	1768.00	10017.34	1770.00	10036.94	1772.00	10060.68
GR	1772.0	10120.11	1770.00	10142.25	1768.00	10151.27	1768.00	10155.15	1770.00	10163.26
GR	1772.0	10225.58	1774.00	10348.04	1774.00	10455.07	1774.00	10545.54	1775.00	10650.82

```
QT      1     7213                        7213
ET            3.1      9950     10330
      ************************************************************************
        Q100=7,213 CFS
      ************************************************************************
X1    3.86       25   9980.73  10048.50       360       490       400
GR  1786.0  9243.00  1786.00   9243.80   1784.00   9498.14   1782.00   9623.72   1780.00   9728.15
GR  1778.0  9811.03  1776.00   9980.73   1774.00   9984.57   1772.00   9988.42   1770.00   9992.41
GR  1770.0 10006.32  1772.00  10015.17   1774.00  10048.50   1774.00  10083.77   1774.00  10108.20
GR  1776.0 10125.25  1778.00  10163.10   1778.00  10205.78   1776.00  10245.62   1774.00  10274.92
GR  1774.0 10300.77  1776.00  10341.24   1778.00  10373.74   1780.00  10496.80   1780.50  10680.54

ET            3.1      9877     10433
X1    3.96       23   9882.85  10057.49       490       460       520
GR  1790.0  9412.00  1790.00   9412.72   1788.00   9643.42   1786.00   9807.32   1784.00   9852.78
GR  1782.0  9882.85  1780.00   9912.96   1778.00   9952.91   1776.00   9978.94   1774.00   9989.34
GR  1774.0 10006.21  1776.00  10013.45   1778.00  10020.91   1780.00  10028.53   1782.00  10057.49
GR  1782.0 10179.95  1780.00  10409.79   1778.00  10418.05   1778.00  10422.60   1780.00  10433.36
GR  1782.0 10548.23  1784.00  10801.62   1786.00  10916.09

QT      1     5347                        5347
ET            3.1      9968     10270
      ************************************************************************
        BEGINNING OF EAST CHANNEL CAUSED BY FLOW SPLIT UPSTREAM OF
        CAREFREE HIGHWAY. TOTAL FLOW IN APACHE WASH Q100= 5347 CFS.
        TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1866 CFS.
      ************************************************************************
    4.05       11      9960     10025       400       285       500
GR   1794     9645      1792      9870      1790      9940      1788      9960      1780      9990
GR   1779    10000      1780     10015      1782     10025      1782     10200      1786     10270
GR 1786.8    10320

ET            3.1      9975     10293
X1    4.11       15   9978.48  10019.70       240       300       250
GR  1796.0  9581.80  1796.00   9581.86   1794.00   9856.27   1792.00   9954.62   1790.00   9972.66
GR  1788.0  9975.22  1786.00   9978.48   1784.00   9982.42   1782.00   9988.23   1782.00  10014.08
GR  1784.0 10019.70  1786.00  10107.80   1788.00  10273.40   1790.00  10355.58   1790.00  10489.42

ET            3.1      9780     10082
X1    4.22       14      9975     10030       280       260       280
GR   1796     9435      1794      9530      1792      9595      1790      9650      1788      9780
GR   1788     9885      1790      9975      1786      9990    1785.5     10000      1786     10010
GR   1788    10020      1790     10030      1792     10085    1792.4     10135

ET            3.1      9830     10097
X1    4.23       17   9980.16  10030.19       140       150       150
GR  1798.0     9343  1798.00   9343.60   1796.00   9520.61   1794.00   9614.39   1792.00   9686.85
GR  1790.0  9762.38  1788.00   9929.17   1788.00   9933.91   1790.00   9961.17   1790.00   9980.16
GR  1788.0  9985.61  1786.00   9991.04   1786.00  10007.85   1788.00  10015.65   1790.00  10030.19
GR  1792.0 10081.29  1794.00  10132.36
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NC    0.065     0.065      0.05       0.1       0.3
ET              3.1      9920     10114
X1     4.31       14   9980.54  10019.75       410       410       420
GR   1802.0  9330.41   1800.00   9596.56   1798.00   9706.51   1796.00   9770.70   1794.00   9896.31
GR   1792.0  9980.54   1790.00   9986.90   1788.00  10005.88   1788.00  10009.89   1790.00  10014.81
GR   1792.0 10019.75   1794.00  10055.21   1796.00  10110.95   1796.50  10150.57

ET              3.1      9938     10249
X1     4.40       16      9990     10030       475       490       510
GR   1805.5     9610      1804      9840      1802      9925      1800      9940      1798      9970
GR    1796     9990      1794      9995    1792.3     10005      1794     10020      1796     10030
GR    1796    10080    1794.3     10090      1796     10110      1798     10175      1800     10210
GR    1801    10270

ET              3.1      9910     10183
X1     4.49       14    9954.9  10053.62       490       450       450
GR   1810.0  9550.57   1808.00   9727.02   1806.00   9821.99   1804.00   9901.91   1802.00   9916.74
GR   1800.0  9954.90   1798.00   9973.89   1796.00   9983.53   1796.00  10011.10   1798.00  10018.97
GR   1800.0 10053.62   1802.00  10105.02   1804.00  10240.68   1804.50  10340.00

ET              3.1      9944     10216
      ***********************************************************************
         TOTAL FLOW IN APACHE WASH Q100= 5347 CFS.
         TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1866 CFS.
      ***********************************************************************
X1     4.56       13      9960     10035       365       350       365
GR     1812     9550      1810      9730      1808      9915      1806      9945      1804      9960
       1802     9975      1800      9985      1799     10000      1800     10035      1802     10115
       1804    10150      1806     10215      1808     10240

NC    0.065     0.065      0.05       0.3       0.5
QT        1      5463                          5463
ET              3.1      9910     10500
      ***********************************************************************
         DOWN STREAM OF 3-10'X5'X54' CBC's WITH WINGWALLS AT CAREFREE
         HIGHWAY. TOTAL FLOW IN APACHE WASH Q100= 5463 CFS. TOTAL FLOW
         IN OVERFLOW CHANNEL Q100= 1750 CFS.
      ***********************************************************************
X1     4.57        9   9980.00  10011.00       110       100       110
X3       10                                                                  1808      1808
GR   1810.0  9540.00   1808.00   9760.00   1806.00   9950.00   1806.00   9980.00   1800.00   9981.00
GR   1800.0 10010.00   1806.00  10011.00   1806.00  10220.00   1806.00     10500

QT        1      5739                          5739
ET              3.1      9900     10500
SC    3.012       0.5       3.1         0         5        10        70       8.1    1801.3    1800.9
      ***********************************************************************
         UP STREAM OF 3-10'X5'X54' CBC'S AT CAREFREE HIGHWAY.  FLOW SPLITS
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          TO THE WEST. TOTAL FLOW IN APACHE WASH Q100= 5739 CFS.
          TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1474 CFS.
        ************************************************************************
X1     4.58       10     9983    10011       70       70       70
X2        0        0        2   1806.3     1807        0        0        0        0        0
X3       10                                                        1807     1808
BT      -10     9685  1810.00     1810     9790  1808.00     1808     9945  1808.00     1808
BT             9983  1808.00     1808     9984  1808.00   1806.3 10010.00  1808.00   1806.3
BT            10011   1808.0   1806.3    10250     1807     1807    10320     1807     1807
BT            10500     1808     1808
GR     1810     9685     1808     9790     1806     9945     1804     9983     1802     9984
GR     1802    10010     1804    10011     1804    10250     1806    10320     1808    10500

NC    0.065    0.065     0.05      0.1      0.3
QT        1     5873                       5873
ET              3.1     9890    10500
        ************************************************************************
          FLOW SPLITS TO WEST. TOTAL FLOW IN APACHE WASH Q100= 5873 CFS.
          TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1340 CFS.
        ************************************************************************
X1     4.60       29  9971.40 10015.98       83       83       83
GR     1812     9675  1810.00  9807.06  1810.00  9812.65  1810.00  9836.34  1808.00  9875.78
GR   1808.0  9883.17  1806.00  9966.89  1806.00  9971.40  1804.00  9976.73  1804.00  9979.77
GR   1802.0  9986.27  1802.00  9987.40  1802.00  9998.69  1802.00  9998.98  1804.00 10008.42
GR   1804.0 10010.82  1806.00 10015.98  1806.00 10022.46  1806.00 10112.04  1806.00 10123.00
GR   1804.0 10129.02  1804.00 10130.11  1804.00 10134.03  1804.00 10156.04  1804.00 10274.93
GR   1804.0 10281.42  1806.00 10322.77  1806.00 10440.24  1808.00 10500.19

      0.08     0.08    0.075
         1     6053                       6053
ET              3.1     9820    10360
        ************************************************************************
          FLOW SPLITS TO WEST. TOTAL FLOW IN APACHE WASH Q100= 6053 CFS.
          TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1160 CFS.
        ************************************************************************
X1     4.65       17  9982.47 10093.98      260      260      280
GR   1815.5     9400     1814     9600     1812     9724     1812     9725  1810.00  9830.73
GR   1808.0  9982.47  1806.00  9997.03  1806.00 10002.86  1808.00 10014.29  1808.00 10049.57
GR   1806.0 10059.42  1806.00 10060.51  1808.00 10093.98  1808.00 10225.15  1808.00 10250.89
GR     1810    10270     1810    10360

NC    0.065    0.065     0.05
QT        1     6928                       6928
ET              3.1     9822 10700.00
        ************************************************************************
          FLOW SPLITS TO WEST. TOTAL FLOW IN APACHE WASH Q100= 6928 CFS.
          TOTAL FLOW IN OVERFLOW CHANNEL Q100= 285 CFS.
        ************************************************************************
X1     4.74       24  9960.29 10029.03      400      500      500
GR   1818.0  9500.14  1816.00  9960.29  1814.00  9979.29  1812.00  9986.69  1812.00  9986.69
GR   1810.0  9994.00  1810.00  9994.01  1810.00  9999.53  1810.00  9999.55  1812.00 10010.02
GR   1812.0 10010.02  1814.00 10029.03  1814.00 10029.36  1814.00 10136.55     1813    10140
GR     1814    10160     1814    10380     1811    10400     1814    10425     1814    10440
GR     1813    10485     1814    10530     1815    10590     1815    10700
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Q        1      7213                          7213
ET              3.1      9971      10640
        ***********************************************************************
          BEGINING OF FLOW SPLIT TO WEST. TOTAL FLOW IN APACHE WASH
          Q100=7213 CFS. TOTAL FLOW IN OVERFLOW CHANNEL Q100= 0 CFS.
        ***********************************************************************
X1     4.78       26    9964.87   10021.41       300       100       200
GR   1820.0  9743.69    1818.00    9905.26   1818.00   9905.48   1818.00   9931.86   1818.00   9931.87
GR   1818.0  9964.87    1818.00    9964.88   1816.00   9983.35   1816.00   9983.35   1813.00   9995.72
GR   1813.0  9995.72    1813.00   10010.03   1814.00  10010.04   1816.00  10021.41   1816.00  10021.41
GR   1816.0 10106.14    1814.00   10182.26   1814.00  10190.46   1816.00  10211.72   1816.00  10230.89
GR   1814.0 10317.17    1813.00   10376.07   1814.00  10488.80   1814.00  10508.50   1816.00     10540
GR   1818.0    10640

ET              3.1      9832      10456
X1     4.82       35      9975   10009.43       480       480       480
GR   1826.0     9480    1824.00    9740.85   1822.00   9830.85   1820.00   9875.16   1818.00   9888.17
GR   1818.0  9903.71    1818.00    9903.71   1820.00   9930.33   1820.00   9930.34   1820.00   9974.99
GR   1820.0  9975.00    1818.00    9990.22   1818.00   9990.22   1818.00  10005.12   1818.00  10005.12
GR   1820.0 10009.43    1820.00   10009.43   1822.00  10013.60   1822.00  10013.60   1822.00  10024.29
GR   1822.0 10024.29    1820.00   10070.59   1820.00  10070.59       1818     10100   1820.00  10126.15
GR   1820.0 10181.41    1818.00   10189.94     1817.1     10200   1818.00  10207.92   1820.00  10217.21
GR   1820.0 10264.85       1818      10280       1820     10315       1822     10435      1824     10565

NC     0.05     0.05       0.05        0.3       0.5
ET              3.1      9825      10340
        ***********************************************************************
          UP STREAM OF 2-66"X124' HERC'S WITH HEADWALLS AT 12TH STREET.
          SKEWED 32 DEG. TO THE RIGHT. NON EFFECTIVE AT Q100=7213 CFS.
        ***********************************************************************
X1     4.90       21      9940      10018       220       160       200
GR     1826     9730      1824       9825      1822      9870      1820      9885      1822      9905
GR     1824     9940      1822       9955      1822      9965      1822      9985      1822     10000
GR     1822    10005      1822      10010      1824     10018      1824     10030      1822     10155
GR     1822    10290      1820      10310      1822     10330      1824     10405      1826     10560
GR     1828    10750

NC    0.065    0.065      0.06        0.1       0.3
ET              3.1      9900      10350
X1     4.96       30    9974.19   10011.03       400       200       320
GR   1828.0  9716.18    1828.00    9717.02   1826.00   9800.79   1826.00   9840.35   1826.00   9843.77
GR   1826.0  9974.19    1826.00    9974.19   1824.00   9988.40   1824.00   9988.40   1822.00   9995.82
GR   1822.0  9995.82    1822.00   10000.05   1822.00  10000.05   1824.00  10005.50   1824.00  10005.51
GR   1826.0 10011.03    1826.00   10011.04   1826.00  10058.68   1826.00  10058.68   1826.00  10136.37
GR   1826.0 10136.37    1826.00   10156.72   1826.00  10156.73   1824.00  10310.00   1824.00  10344.97
GR   1826.0 10425.12       1827   10592.76       1827  10594.98   1828.00     10670      1830     10790

ET              3.1      9900      10350
X1     5.03       25   9975.12   10012.26       345       340       365
GR     1833     9515    1832.00    9590.59   1830.00   9640.88   1830.00   9975.12   1828.00   9983.12
GR   1826.0  9992.06    1826.00    9992.06   1826.00  10001.75   1826.00  10001.75   1828.00  10007.00
GR   1828.0 10007.00    1830.00   10012.26   1830.00  10012.26   1830.00  10053.03   1830.00  10053.10
GR   1830.0 10133.33    1830.00   10133.33   1830.00  10140.53   1830.00  10140.53   1828.00  10188.37
```

	1828.0	10188.37	1828.00	10281.59	1830	10440	1832	10620	1832.5	10750
NC	0.06		0.05							
ET		3.1	9890	10320						
X1	5.09	14	9970	10025	300	310	300			
GR	1835	9480	1834	9515	1832	9550	1832	9970	1830	9985
GR	1831	10000	1832	10025	1834	10075	1830	10120	1832	10145
GR	1832	10255	1834	10320	1834	10435	1836	10780		
NC	0.06		0.05							
ET		3.1	9962	10330						
X1	5.15	16	9978	10025	350	355	352			
GR	1839	9870	1838	9945	1836	9978	1834	9988	1832	9995
GR	1830	10000	1830	10010	1832.00	10015	1834	10025	1834	10130
GR	1836	10170	1836	10200	1835	10320	1836	10495	1838	10522
GR	1840	10780								
NC	0.065		0.05							
ET		3.1	9850	10175						
X1	5.21	21	9970	10030	330	300	310			
GR	1842	9685	1840	9780	1838	9860	1836	9885	1836	9890
GR	1838	9915	1838	9970	1836	9985	1834	10000	1836	10015
GR	1838	10030	1838	10085	1837	10110	1838	10120	1840	10135
GR	1840	10150	1838	10245	1838	10310	1840	10355	1840	10400
GR	1842	10525								
NC			0.06							
ET		3.1	9808	10100						
	5.31	34	9887.76	10061.08	500	480	500			
	1847	9325	1846.00	9444.34	1844.00	9557.15	1844.00	9574.11	1844.00	9596.05
GR	1844.0	9692.33	1844.00	9887.76	1844.00	9887.76	1842.00	9899.69	1842.00	9899.69
GR	1840.0	9911.33	1840.00	9911.33	1840.00	9919.33	1840.00	9919.34	1842.00	9933.33
GR	1842.0	9933.43	1842.00	9988.23	1842.00	9988.24	1840.00	9992.97	1840.00	9992.97
GR	1838.0	9997.67	1838.00	9997.67	1838.00	10005.97	1838.00	10005.97	1840.00	10015.50
GR	1840.0	10015.50	1842.00	10024.70	1842.00	10024.70	1844.00	10044.49	1844.00	10044.50
GR	1844.0	10061.08	1844.00	10061.08	1844.00	10218.05	1846.00	10565		
NC			0.05							
ET		3.1	9860	10100						
X1	5.38	20	9985	10015	350	425	375			
GR	1850	9250	1848	9440	1846	9500	1846	9510	1848	9635
GR	1850	9700	1850	9815	1848	9880	1846	9900	1844	9910
GR	1844	9985	1842	9995	1841	10000	1842	10005	1844	10015
GR	1846	10030	1846	10110	1848	10255	1850	10460	1852	10570
ET		3.1	9860	10120						
X1	5.48	32	9978.41	10044.06	530	500	500			
GR	1855	9300	1854	9440	1854	9750	1852	9790	1852	9895
GR	1850.0	9929.89	1850.00	9954.41	1850.00	9954.47	1850.00	9978.41	1850.00	9978.41
GR	1848.0	9989.41	1848.00	9989.41	1846.00	10000.42	1846.00	10000.42	1846.00	10004.40
GR	1846.0	10004.40	1848.00	10025.59	1848.00	10025.59	1850.00	10044.06	1850.00	10044.06
GR	1852.0	10141.09	1852.00	10147.22	1852.00	10201.27	1852.00	10201.36	1852.00	10214.48
GR	1852.0	10214.49	1852.00	10259.46	1852.00	10259.50	1852.00	10418.73	1854.00	10547.75
GR	1856.0	10626.53	1858.00	10717.29						

[illegible]		3.1	9812	10050						
X1	5.57	18	9977	10035	400	450	450			
GR	1859	9400	1858	9520	1856	9700	1858	9731	1858	9800
GR	1856	9812	1854	9824	1854	9977	1852	9985	1850	9993
GR	1850	10005	1852	10014	1854	10024	1856	10035	1858	10170
GR	1860	10299	1860	10556	1862	10739				
NC			0.045							
ET		3.1	9870	10180						
X1	5.64	9	9955	10170	370	320	345			
GR	1862	9650	1860	9775	1858	9870	1856	9955	1855	10038
GR	1856	10170	1858.00	10275	1860	10365	1862.5	10575		
NC			0.05							
ET		3.1	9800	10120						
X1	5.66	43	9980.02	10030	460	320	440			
GR	1866.0	9480.86	1864.00	9504.86	1864.00	9505.03	1862.00	9622.90	1862.00	9622.94
GR	1862.0	9802.24	1862.00	9802.24	1862.00	9802.28	1862.00	9805.57	1862.00	9805.57
GR	1862.0	9805.58	1860.00	9814.49	1860.00	9814.49	1858.00	9838.73	1858.00	9838.74
GR	1858.0	9839.05	1858.00	9839.05	1860.00	9857.77	1860.00	9857.77	1860.00	9857.77
GR	1860.0	9911.58	1860.00	9911.59	1860.00	9911.59	1860.00	9980.02	1858.00	9989.02
GR	1858.0	9989.02	1856.00	9993.40	1856.00	9993.40	1854.00	9998.49	1854.00	9998.49
GR	1854.0	10000.64	1854.00	10000.64	1856.00	10007.51	1856.00	10007.51	1858.00	10014.57
GR	1858.0	10014.57	1859	10030	1860.00	10136.30	1860.00	10136.31	1860.00	10136.31
GR	1862.0	10169.16	1862.5	10210	1863	10615				
ET		3.1	9705	10100						
[illegible]	5.76	28	9968.58	10043.06	470	570	540			
[illegible]	1870	9640	1868.00	9674.85	1866.00	9704.99	1866.00	9704.99	1864.00	9711.21
GR	1864.0	9711.21	1864.00	9712.43	1864.00	9712.43	1866.00	9741.92	1866.00	9741.92
GR	1866.0	9835	1866.00	9865	1864.00	9968.58	1864.00	9968.58	1862.00	9985.72
GR	1862.0	9985.72	1862.00	10014.25	1862.00	10014.25	1864.00	10043.06	1864.00	10043.06
GR	1866.0	10096.64	1866.00	10096.64	1868.00	10124.80	1868.00	10124.80	1870.00	10142.86
GR	1870.0	10142.86	1870.00	10144.93	1870.00	10144.93				
ET		3.1	9820	10120						
X1	5.83	18	9960	10030	375	380	380			
GR	1874	9500	1872	9550	1870	9575	1870	9615	1872	9650
GR	1872	9710	1870	9735	1870	9890	1868	9960	1866	9990
GR	1865.5	10000	1866	10005	1868	10030	1868	10105	1870	10120
GR	1872	10140	1874	10155	1875	10250				
ET		3.1	9940	10250						
X1	5.92	31	9948.34	10024.34	375	375	400			
GR	1877	9720	1876.00	9854.04	1874.00	9948.34	1874.00	9948.34	1872.00	9975.43
GR	1872.0	9975.43	1870.2	10000	1872.00	10006.77	1874.00	10015.55	1874.00	10015.55
GR	1876.0	10024.34	1876.00	10024.34	1876.00	10034.96	1876.00	10034.96	1874.00	10094.25
GR	1874.0	10094.25	1872.00	10130.93	1872.00	10130.93	1870.00	10149.30	1870.00	10149.30
GR	1870.0	10150.59	1870.00	10150.59	1872.00	10177.58	1872.00	10177.58	1874.00	10238.14
GR	1874.0	10251.91	1874.00	10318.15	1874.00	10318.15	1876.00	10335.66	1876.00	10335.66
GR	1878.0	10350.37								

```
                3.1      9920     10250
X1    6.01       17      9955     10020       485       510       490
GR    1883     9750      1882      9870      1880      9920      1878      9955      1876      9980
GR  1875.5    10000      1876     10010      1878     10020      1880     10035      1880     10075
GR    1878    10160      1877     10175      1878     10190      1880     10260      1882     10280
GR    1884    10400      1886     10580

QT       1     7187         0         0      7187
ET                3.1      9920     10230
      ***********************************************************************
          Q100=7,187 CFS
      ***********************************************************************
X1    6.09       10      9935     10070       470       435       445
GR    1886     9815      1884      9890      1882      9935      1880      9970    1879.5     10010
GR  1880.0    10050      1882     10070      1884     10345      1886     10380      1888     10520

NC                       0.06
ET                3.1      9974     10319
X1    6.16       34   9961.21  10039.58       270       450       360
GR  1892.5     9875   1892.00   9961.21   1892.00   9961.21   1890.00   9972.10   1890.00   9972.10
GR  1888.0  9977.65   1888.00   9977.65   1886.00   9983.30   1886.00   9983.30   1884.00   9989.16
GR  1884.0  9989.16   1883.00   9996.77   1883.00   9997.18   1884.00  10022.78   1884.00  10022.78
GR  1886.0 10039.58   1888.00  10050.58   1888.00  10110.58   1886.00  10208.91   1886.00  10225.08
GR  1886.0 10225.08   1888.00  10318.94   1888.00  10318.94   1890.00  10345.72   1890.00  10345.72
GR  1892.0 10414.90   1892.00  10414.90   1892.00  10424.02   1892.00  10424.02   1892.00  10428.81
GR  1892.0 10428.81   1894.00  10502.35   1894.00  10502.35   1896.00  10541.21

                         0.05
                3.1      9940     10240
X1    6.25       23   9961.84  10045.42       490       430       460
GR  1898.0  9911.34   1896.00   9931.58   1894.00   9947.24   1894.00   9947.24   1892.00   9961.84
GR  1892.0  9961.84   1890.00   9976.08      1888      9990      1888     10015   1890.00  10030.10
GR  1892.0 10045.42   1892.00  10045.42   1892.00  10069.44   1892.00  10069.44   1892.00  10268.14
GR  1892.0 10268.14   1894.00  10454.21   1894.00  10454.21   1896.00  10476.27   1896.00  10476.27
GR  1898.0 10569.33   1898.00  10569.33   1900.00  10677.60

NC                       0.06
ET                3.1      9957     10240        00
X1    6.32       29   9951.16  10020.18       410       350       390
GR  1904.0  9821.18   1902.00   9906.54   1900.00   9951.16   1900.00   9951.16   1898.00   9957.90
GR  1898.0  9957.90   1896.00   9964.52   1896.00   9964.52   1894.00   9970.99   1894.00   9970.99
GR  1892.0  9977.55   1892.00   9977.55   1890.00   9984.06   1890.00  10006.52   1892.00  10013.72
GR  1892.0 10013.72   1894.00  10020.18   1894.00  10020.18   1896.00  10100.18   1896.00  10100.18
GR  1898.0 10266.52   1898.00  10266.52   1898.00  10293.42   1898.00  10293.42   1898.00  10347.28
GR  1898.0 10347.28   1900.00  10412.02   1900.00  10412.02   1902.00  10596.97

NC                       0.05
ET                3.1      9800     10040
X1    6.43       16      9970     10020       475       360       450
GR    1908     9630      1906      9655      1904      9665      1902      9680      1900      9690
GR    1900     9925      1898      9970    1896.5      9990    1896.5     10010      1898     10020
GR    1900    10030      1902     10040      1904     10120      1906     10285      1906     10340
GR    1908    10410
```

ET		3.1	9850	10072						
X1	6.50	32	9987.47	10019.82	310	355	345			
GR	1914.0	9610.75	1912.00	9623.59	1910.00	9636.39	1910.00	9636.39	1908.00	9702.53
GR	1908.0	9702.53	1906.00	9718.78	1906.00	9718.78	1904.00	9747.02	1904.00	9747.02
GR	1904.0	9794.40	1904.00	9794.40	1904.00	9947.45	1904.00	9947.45	1902.00	9967.32
GR	1902.0	9967.32	1900.00	9987.47	1899	9995	1899	10010	1900.00	10019.82
GR	1902.0	10042.69	1902.00	10042.69	1904.00	10071.54	1904.00	10071.54	1906.00	10099.13
GR	1906.0	10099.13	1908.00	10152.40	1908.00	10152.40	1910.00	10187.00	1910.00	10187.00
GR	1912.0	10245.02	1914	10400						
ET		3.1	9926	10100						
X1	6.58	41	9950.13	10022.84	430	430	430			
GR	1920.0	9707.43	1918.00	9758.33	1916.00	9792.06	1916.00	9792.06	1916.00	9808.53
GR	1916.0	9808.53	1916.00	9858.47	1916.00	9858.47	1914.00	9877.36	1914.00	9877.36
GR	1912.0	9897.27	1912.00	9897.27	1910.00	9926.14	1910.00	9926.14	1908.00	9950.13
GR	1908.0	9950.13	1906.00	9965.10	1906.00	9965.10	1904.00	9980.22	1904.00	9980.22
GR	1902.0	9998.11	1902.00	9998.11	1902.00	10006.79	1902.00	10006.79	1904.00	10014.85
GR	1904.0	10014.85	1906.00	10022.84	1906.00	10022.84	1908.00	10088.23	1908.00	10088.23
GR	1910.0	10249.56	1910.00	10249.56	1912.00	10282.55	1912.00	10282.55	1912.00	10348.27
GR	1912.0	10348.27	1912.00	10386.32	1912.00	10386.32	1914.00	10434.86	1914.00	10434.86
GR	1916	10475								
NC			0.06							
ET		3.1	9982	10140						
X1	6.63	32	9976.91	10021.82	300	290	290			
GR	1920.0	9899.64	1918.00	9949.36	1918.00	9949.36	1916.00	9976.91	1916.00	9976.91
GR	1914.0	9982.13	1914.00	9982.13	1912.00	9983.41	1912.00	9983.41	1910.00	9984.66
GR	1910.0	9984.66	1908.00	9985.91	1908.00	9985.91	1906.00	9987.08	1905	9995
GR	1905	10005	1906.00	10015.13	1908.00	10021.82	1908.00	10021.82	1910.00	10050.15
GR	1910.0	10050.15	1912.00	10131.79	1912.00	10131.79	1914.00	10273.67	1914.00	10273.67
GR	1916.0	10318.49	1916.00	10318.49	1916.00	10398.87	1916.00	10398.87	1916.00	10411.76
GR	1916.0	10411.76	1918.00	10525.00						
NC	0.07	0.07	0.055	0.3	0.5					
ET	0	3.1	9965	10150						
X1	6.71	12	9960	10025	425	350	390			
GR	1926	9780	1922	9930	1920	9960	1918	9970	1908	9990
GR	1907.5	10000	1908	10010	1912	10025	1914	10045	1916	10090
GR	1918	10225	1920	10290						
ET	0	3.1	9800	10037						
X1	6.80	24	9976.63	10028.44	500	400	495			
GR	1930	9620	1924	9660	1920	9705	1919	9725	1920	9755
GR	1920.0	9800.00	1920.00	9880.75	1920.00	9901.03	1918.00	9976.63	1918.00	9976.81
GR	1916.0	9982.58	1916.00	9982.91	1914.00	9988.60	1914.00	9988.73	1914.00	10004.27
GR	1914.0	10004.41	1916.00	10010.43	1916.00	10010.46	1918.00	10016.40	1918.00	10016.52
GR	1920.0	10022.44	1920.00	10022.57	1922.00	10028.44	1923.70	10040.00		

NC	0.08	0.08	0.055	0.3	0.5					
ET		3.1	9822	10024						
X1	6.90	18	9987.42	10026.89	490	560	529			
GR	1940	9525	1926	9625	1924	9640	1926	9705	1928	9770
GR	1928.0	9800.00	1928.00	9822.48	1926.00	9857.37	1924.00	9954.17	1922.00	9987.42
GR	1920.0	10000.76	1920.00	10011.02	1922.00	10014.22	1924.00	10017.39	1926.00	10020.56
GR	1928.0	10023.72	1930.00	10026.89	1932.00	10289.88				
ET		3.1	9900	10075						
X1	6.98	19	9975.97	10031.62	400	470	437			
GR	1940	9675	1932	9740	1930	9780	1929.5	9795	1930	9810
GR	1932.0	9900.00	1932.00	9935.00	1930.00	9944.17	1928.00	9975.97	1926.00	9985.40
GR	1924.0	9994.24	1924.00	10004.06	1926.00	10020.09	1928.00	10031.62	1930.00	10071.11
GR	1932.0	10085.11	1934.00	10100.97	1936.00	10133.62	1938.00	10247.69		
NC	0.09	0.09	0.055	0.3	0.5					
ET		3.1	9926	10066						
X1	7.08	19	9953.07	10021.87	485	500	500			
GR	1948.0	9800.00	1948.00	9860.62	1946.00	9886.70	1944.00	9902.90	1942.00	9911.05
GR	1940.0	9917.61	1938.00	9925.72	1936.00	9934.65	1934.00	9943.58	1932.00	9953.07
GR	1930.0	9965.94	1929.00	9987.00	1930.00	10007.17	1932.00	10021.87	1934.00	10036.31
GR	1936.0	10051.70	1938.00	10067.10	1940.00	10082.50	1942.00	10198.22		
ET		3.1	9951	10097						
X1	7.17	32	9960.08	10043.85	500	520	500			
GR	1970.0	9800.00	1970.00	9822.45	1968.00	9843.47	1966.00	9868.20	1964.00	9879.21
GR	1962.0	9899.02	1960.00	9911.70	1958.00	9916.85	1956.00	9922.00	1954.00	9926.87
[illegible]	1952.0	9931.61	1950.00	9936.36	1948.00	9941.10	1946.00	9945.85	1944.00	9950.59
[illegible]	1942.0	9955.33	1940.00	9960.08	1938.00	9967.15	1936.00	9978.76	1934.0	9991.70
GR	1934.3	10000.00	1934.00	10014.37	1936.00	10024.18	1938.00	10034.00	1940.00	10043.85
GR	1942.0	10082.22	1944.00	10098.58	1946.00	10112.55	1948.00	10123.98	1948.00	10128.56
GR	1948.0	10135.98	1950.00	10203.76						
NC	0.10	0.10	0.055	0.3	0.5					
ET		3.1	9755	10042.8						
X1	7.28	17	9972.18	10047.20	475	410	554			
GR	1950	9710	1944	9760	1942.00	9800.00	1942.00	9836.63	1941.80	9849.74
GR	1941.8	9874.17	1942.00	9924.41	1944.00	9962.25	1944.00	9972.18	1942.00	9988.71
GR	1940.8	9998.00	1942.00	10010.16	1944.00	10021.65	1946.00	10030.54	1948.00	10038.90
GR	1950.0	10047.20	1952.00	10071.47						
ET		3.1	9825	10040.3						
X1	7.36	14	9949.32	10053.34	420	470	446			
GR	1960	9680	1952	9740	1950.00	9800.00	1950.00	9835.52	1948.00	9949.32
GR	1946.0	9977.98	1944.50	9998.00	1946.00	10011.65	1948.00	10023.48	1950.00	10033.89
GR	1952.0	10040.39	1954.00	10046.86	1956.00	10053.34	1958.00	10087.91		
ET		3.1	9923	10110						
X1	7.46	16	9969.47	10051.31	490	510	500			
GR	1960.0	9800.00	1960.00	9830.45	1958.00	9861.07	1956.00	9923.22	1954.00	9969.47
GR	1952.0	9976.86	1951.50	9990.00	1952.00	10000.70	1952.00	10032.17	1953.00	10051.31
GR	1954.0	10081.59	1956.00	10119.30	1958.00	10130.99	1960.00	10142.80	1962.00	10154.64
GR	1964.0	10190.46								

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                3.1      9911     10150
X1     7.55      16   9970.07  10024.51       510       480       500
GR   1972.0 9800.00   1972.00   9802.58   1970.00   9850.37   1968.00   9877.72   1966.00   9895.81
GR   1964.0 9913.89   1962.00   9929.39   1960.00   9970.07   1958.00   9981.49   1956.70  10000.00
GR   1958.0 10024.51  1960.00  10145.16   1962.00  10158.57   1964.00  10173.58   1966.00  10182.60
GR   1968.0 10293.44

ET              3.1      9800     10050
X1     7.65      14   9977.37  10022.56       520       470       500
GR   1970      9787     1966      9805      1964      9827    1965.5      9882      1964      9917
GR   1964.0 9977.37   1962.00   9986.15   1961.80  10000.00   1962.00  10010.39   1964.00  10016.47
GR   1966.0 10022.56  1968.00  10109.69   1970.00  10128.52   1971.00  10165.00

ET              3.1      9850     10131
X1     7.74      24     9981     10010       425       475       500
GR   1978      9733     1976      9744      1974      9754      1972      9765      1972      9800
GR   1972.3    9836     1972      9888      1972      9915    1972.4      9968      1972      9981
GR   1970      9987   1969.1     10000      1970     10010      1972     10062    1972.3     10086
GR   1972     10097     1970     10110      1970     10118      1972     10123      1974     10127
GR   1976     10133     1978     10138      1980     10170    1980.4     10247

ET              3.1      9885     10110
X1     7.84      16     9984     10025       575       425       500
GR   1984      9793     1982      9828      1980      9841      1978      9908      1976      9916
GR   1976      9918     1976      9941      1976      9975      1976      9984    1974.4     10000
GR   1976     10025     1978     10036      1978     10073      1980     10206      1982     10222
GR   1983     10267

                3.1      9875     10155
X1     7.89      20     9978     10020       300       220       300
GR   1988      9715     1986      9756      1984      9764    1982.5      9791      1984      9845
GR   1984      9878     1982      9978      1982      9983      1980      9987      1978      9992
GR   1977     10000     1978     10020      1980     10054      1980     10082    1981.8     10149
GR   1982     10170     1982     10189      1982     10219      1984     10224    1985.5     10256

ET              3.1      9700     10075
X1     7.98      22     9982     10017       280       520       465
GR   1992      9500     1990      9570      1988      9630      1986      9740      1985      9757
GR   1986      9773     1986      9859    1986.4      9898      1986      9927      1986      9950
GR   1986      9975     1984      9982      1982      9991    1981.8     10000      1982     10005
GR   1984     10017     1986     10039      1988     10075    1988.2     10097      1990     10116
GR   1992     10127     1994     10136

ET              3.1      9825     10110
        ***************************************************************************
        *********  CONFLUENCE OF APACHE WASH AND W. BR. APACHE WASH  **********
        ***************************************************************************
X1     8.02      18     9977     10037       215       245       235
GR   1996      9610     1992      9700    1991.9      9765      1990      9862      1988      9894
GR   1988      9897   1989.2      9951      1988      9977      1986      9989    1985.1     10000
GR   1986     10020     1988     10037      1990     10077      1992     10109      1994     10116
GR   1996     10125     1998     10132      2000     10141
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NC     0.10      0.10      0.055       0.3       0.5
QT        1      3853                          3853
ET               3.1       9950     10120
         ************************************************************************
          FIRST CROSS SECTION ON APACHE WASH UPSTREAM OF CONFLUENCE  ***********
          WITH APACHE WASH-WEST BRANCH.  Q100 = 3853 CFS  **********************
         ************************************************************************
X1     8.12        16       9993     10010       450       525       500
GR   2002.5      9834       2000      9896      1998      9920      1996      9945      1994      9965
GR     1992      9978       1990      9993    1989.8     10000      1990     10010      1992     10019
GR     1994     10085       1996     10101      1998     10111      2000     10135      2002     10183
GR     2004     10233

ET               3.1       9944     10040
X1     8.21        15       9985     10007       515       480       500
GR     2010      9830       2004      9927      2002      9950      2000      9962      1998      9974
GR     1996      9985     1995.4     10000      1996     10007      1998     10020      2000     10039
GR   2000.2     10056       2000     10076      2002     10091      2004     10107      2006     10123

ET               3.1       9978     10065
X1     8.31        22       9992     10012       500       490       500
GR     2022      9894       2020      9905      2018      9916      2016      9929      2014      9944
GR     2012      9960       2010      9978      2008      9980      2006      9984      2004      9988
GR     2002      9992     2001.3     10000      2002     10012      2004     10019      2006     10059
GR     2008     10123     2008.8     10187      2008     10231      2008     10249      2010     10273
GR     2012     10296     2012.7     10316

               3.1       9916     10039
       8.40        22       9983     10019       520       470       500
GR     2030      9794       2028      9829      2026      9856      2024      9881      2022      9893
GR     2020      9900       2018      9906      2016      9914      2014      9921      2012      9968
GR     2010      9983     2008.7     10000      2010     10019      2012     10030      2014     10039
GR   2014.5     10057       2014     10109    2013.6     10148      2014     10179      2016     10215
GR     2018     10232       2019     10342

ET               3.1       9952     10075
X1     8.50        27       9991     10026       450       550       500
GR     2030      9724       2028      9739      2026      9755      2024      9774      2022      9820
GR     2020      9857       2020      9865    2021.8      9883      2020      9920      2018      9952
GR   2017.8      9984       2016      9991    2014.3     10000      2016     10026      2018     10039
GR     2018     10074       2018     10085      2020     10099      2022     10109      2024     10117
GR     2026     10125     2027.1     10158      2026     10204    2025.3     10223      2026     10254
GR     2028     10297       2030     10340

NC    0.065     0.065       0.05       0.1       0.3
QT        1      7213                          7213
ET               3.1       9877     10433
         ************************************************************************
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          SPLIT FLOW FROM UPSTREAM OF CAREFREE HWY. REENTERS HERE
        ***********************************************************************
X1     -3.96       23   9882.85  10057.49     490     460     520
GR    1790.0  9412.00   1790.00   9412.72  1788.00 9643.42 1786.00  9807.32  1784.00  9852.78
GR    1782.0  9882.85   1780.00   9912.96  1778.00 9952.91 1776.00  9978.94  1774.00  9989.34
GR    1774.0 10006.21   1776.00  10013.45  1778.00 10020.91 1780.00 10028.53  1782.00 10057.49
GR    1782.0 10179.95   1780.00  10409.79  1778.00 10418.05 1778.00 10422.60  1780.00 10433.36
GR    1782.0 10548.23   1784.00  10801.62  1786.00 10916.09

QT         1    1866                        1866
ET              3.1      9874     10045
        ***********************************************************************
          BEGINNING OF WEST OVERFLOW CHANNEL CAUSED BY SPLIT FLOW UPSTREAM
          OF CAREFREE HIGHWAY.  Q100=1,866 CFS
        ***********************************************************************
X1     4.055       9      9965     10005     300     285     290
GR      1786    9850      1784      9925    1782    9965    1783     9983     1782     9995
GR      1782   10005      1784     10115    1786   10250    1787    10500

ET              3.1      9807     10065
X1     4.111      10      9995     10005     320     200     250
GR      1790    9560      1788      9775    1786    9905    1786     9995   1784.2    10000
GR      1786   10005      1786     10090    1788   10270    1790    10430     1792    10570

ET              3.1      9552     10045
X1     4.233       9      9990     10010     420     410     430
GR      1794    9425      1792      9550    1790    9840    1790     9990     1789    10000
GR      1790   10010      1790     10040    1792   10145    1794    10355

ET              3.1      9612     10060
        ***********************************************************************
          FLOW SPLIT FROM EAST CHANNEL; Q100=1,866 CFS
        ***********************************************************************
X1     4.311       9      9995     10005     370     340     370
GR      1796    9400      1794      9890    1794    9945    1792     9995     1792    10005
GR      1794   10010      1794     10150    1796   10230    1798    10430

ET              3.1      9441     10060
        ***********************************************************************
          FLOW SPLIT FROM EAST CHANNEL;  Q100=1,866 CFS
        ***********************************************************************
X1     4.499       9      9985     10010     450     575     550
GR      1802    9300      1800      9465    1800    9600    1798     9985   1797.5    10000
GR      1798   10010      1800     10155    1802   10335    1802    10450

QT         1    1250                        1250
ET              3.1      9631     10065
        ***********************************************************************
          FLOW SPLIT FORM EAST CHANNEL;  Q100=1250 CFS
```

```
          ************************************************************************
X1      4.655        8      9980     10020       560       500       540
GR     1806.0     9530   1804.00   9650.00   1804.00   9900.00   1802.00   9980.00   1802.00  10020.00
GR     1804.0  10150.00   1806.00  10210.00   1808.00     10285

QT          1      723                          723
ET                 3.1      9917     10065
          ************************************************************************
              FLOW SPLIT FROM EAST CHANNEL; Q100= 723 CFS
          ************************************************************************
X1      4.722        8      9965     10035       550       430       475
GR      1812     9600      1812      9785      1810      9880      1808      9965      1807     10000
GR      1808    10035      1810     10265      1812     10400

QT          1      285                          285
ET                 3.1      9938     10055
          ************************************************************************
              END OF WEST OVERFLOW CHANNEL CAUSED BY SPLIT FLOW UPSTREAM OF
              CAREFREE HIGHWAY.  Q100= 285 CFS
          ************************************************************************
X1      4.744        7      9970     10040       190       170       170
GR     1815.4     9600      1814      9810      1812      9900      1810      9970      1809     10000
GR      1810    10040      1812     10145

NC       0.10     0.10     0.055      0.03      0.05
QT          1     7213                         7213
ET          0      3.1      9825     10110
          ************************************************************************
              CONFLUENCE OF APACHE WASH AND APACHE WASH-WEST BRANCH
          ************************************************************************
X1      -8.02       19      9977     10037
GR      1996     9610      1992      9700    1991.9      9765      1990      9862      1988      9894
GR      1988     9897    1989.2      9951      1988      9977      1986      9989    1985.1     10000
GR      1986    10020      1988     10037      1990     10077      1992     10109      1994     10116
GR      1996    10125      1998     10132      2000     10141    2002.5     10740

QT          1     2191                         2191
ET          0      3.1      9939     10090
          ************************************************************************
              FIRST CROSS SECTION ON APACHE WASH-WEST BRANCH UPSTREAM OF CONFLUENCE
              UPSTREAM OF CONFLUENCE.   Q100 = 2191 CFS
          ************************************************************************
X1       0.09       17      9990     10006       525       425       500
GR     2004.3     9850      2004      9905      2002      9921      2000      9934      1998      9948
GR      1996     9967      1994      9979      1992      9990    1990.2     10000      1992     10006
GR      1994    10014      1996     10081      1998     10104      2000     10119      2002     10142
GR      2004    10203      2006     10262

ET          0      3.1      9972     10074
X1       0.13       17      9987     10013       200       210       207
GR      2009     9808      2008      9926      2006      9952      2004      9959      2002      9965
GR      2000     9973      1998      9979      1996      9987      1994      9995    1994.2     10000
GR      1996    10013      1998     10043      2000     10068      2002     10171      2004     10183
GR      2006    10195      2008     10246
```

ET	0	3.1	9900	10021						
X1	0.21	14	9989	10005	500	275	396			
GR	2010	9778	2008	9790	2006	9815	2004	9847	2004	9849
GR	2004.3	9893	2004	9955	2002	9989	2001.3	10000	2002	10005
GR	2004	10012	2006	10018	2008	10026	2010	10127		
ET	0	3.1	9910	10013						
X1	0.28	16	9987	10006	350	460	397			
GR	2020	9594	2018	9632	2016	9725	2016	9736	2014	9788
GR	2012	9799	2010.2	9860	2010	9940	2009.9	9987	2009	10000
GR	2010	10006	2012	10012	2014	10019	2016	10026	2018	10034
GR	2020	10109								
ET	0	3.1	9910	10012						
X1	0.34	19	9991	10009	275	310	295			
GR	2024	9692	2022	9768	2020	9826	2018	9838	2016	9862
GR	2016	9877	2016.2	9914	2016	9934	2014	9991	2014	9994
GR	2014.1	10000	2016	10002	2018	10009	2020	10018	2022	10028
GR	2024	10038	2026	10083	2028	10114	2030	10139		
ET	0	3.1	9920	10045						
X1	0.40	17	9994	10027	260	360	320			
GR	2028	9693	2026	9816	2024	9860	2022	9888	2021.3	9919
GR	2022	9946	2022	9971	2020	9994	2019	10000	2020	10027
GR	2022	10075	2024	10089	2026	10103	2028	10115	2030	10139
GR	2032	10173	2034	10238						
[illegible]	0	3.1	9972	10100						
[illegible]	0.47	13	9993	10003	370	340	385			
GR	2040	9861	2038	9900	2036	9936	2034	9967	2032	9975
GR	2030	9985	2028	9993	2027.8	10000	2028	10003	2030	10037
GR	2032	10132	2034	10146	2036	10297				
ET	0	3.1	9925	10040						
X1	0.57	15	10000	10008	465	480	500			
GR	2050	9846	2048	9869	2046	9890	2044	9904	2042.9	9913
GR	2042	9950	2040	9973	2038	10000	2038	10008	2040	10020
GR	2042	10030	2044	10040	2044.5	10100	2046	10185	2050	10220

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .100 CEHV= .300
*SECNO .200

```
*************************************************************************
 PONDING FROM CAVE BUTTES RESERVOIR ELEVATION 1657.1; Q100=17,136 CFS
*************************************************************************
```

.200	13.64	1659.64	1658.43	1657.10	1660.43	.79	.00	.00	1650.00
17136.0	7454.5	7968.5	1713.0	1897.5	830.7	494.9	.0	.0	1656.00
.00	3.93	9.59	3.46	.070	.055	.070	.000	1646.00	9330.39
.005037	0.	0.	0.	0	8	4	.00	858.75	10189.15

FLOW DISTRIBUTION FOR SECNO= .20 CWSEL= 1659.64

STA=	9330.	9642.	9827.	9904.	9940.	9968.	10039.	10161.	10189.
PER Q=	4.4	14.0	8.7	7.4	8.9	46.5	9.2	.8	
AREA=	387.5	674.5	356.9	238.0	240.6	830.7	442.4	52.5	
VEL=	2.0	3.6	4.2	5.3	6.3	9.6	3.6	2.6	
DEPTH=	1.2	3.6	4.6	6.6	8.6	11.6	3.6	1.9	

NO .330

.330	10.58	1662.78	1660.79	.00	1663.51	.73	3.07	.01	1660.00
17136.0	1585.0	10683.6	4867.4	589.9	1341.1	1007.1	38.3	8.7	1658.00
.02	2.69	7.97	4.83	.070	.055	.070	.000	1652.20	9636.55
.005569	350.	650.	700.	2	14	0	.00	695.64	10332.19

FLOW DISTRIBUTION FOR SECNO= .33 CWSEL= 1662.78

STA=	9637.	9820.	9920.	10090.	10135.	10150.	10170.	10220.	10305.	10332.
PER Q=	6.8	2.4	62.3	5.6	3.8	6.5	8.6	3.9	.1	
AREA=	412.2	177.7	1341.1	215.0	112.2	169.5	288.8	211.0	10.6	
VEL=	2.8	2.3	8.0	4.5	5.8	6.5	5.1	3.1	.8	
DEPTH=	2.2	1.8	7.9	4.8	7.5	8.5	5.8	2.5	.4	

*SECNO .430

.430	10.53	1665.53	1663.82	.00	1666.13	.59	2.60	.01	1660.00
17136.0	616.4	6396.2	10123.3	246.6	755.3	2324.2	72.0	16.9	1660.00
.05	2.50	8.47	4.36	.070	.055	.070	.000	1655.00	9769.66
.005419	505.	500.	440.	2	9	0	.00	830.51	10600.17

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .43 CWSEL= 1665.53

STA=	9770.	9950.	10035.	10120.	10190.	10240.	10270.	10350.	10405.	10430.	10500.	10600.
PER Q=	3.6	37.3	7.5	8.2	10.4	6.2	6.7	6.2	3.9	7.9	1.9	
AREA=	246.6	755.3	330.8	324.3	326.7	196.0	302.7	249.3	138.3	317.3	138.6	
VEL=	2.5	8.5	3.9	4.3	5.5	5.5	3.8	4.3	4.9	4.3	2.3	
DEPTH=	1.4	8.9	3.9	4.6	6.5	6.5	3.8	4.5	5.5	4.5	1.4	

*SECNO .540

.540	9.04	1669.04	1668.39	.00	1669.84	.80	3.65	.06	1664.00
17136.0	3230.1	5536.5	8369.4	624.0	526.4	1774.6	108.2	27.0	1664.00
.07	5.18	10.52	4.72	.070	.055	.070	.000	1660.00	9715.65
.009098	800.	640.	400.	2	14	0	.00	858.28	10573.92

FLOW DISTRIBUTION FOR SECNO= .54 CWSEL= 1669.04

STA=	9716.	9875.	9965.	10027.	10068.	10198.	10256.	10361.	10419.	10471.	10510.	10574.
PER Q=	3.1	15.7	32.3	5.0	9.8	4.3	7.9	7.0	9.1	4.8	1.0	
AREA=	170.7	453.3	526.4	167.2	394.5	174.6	318.3	233.5	261.9	160.6	64.0	
VEL=	3.1	5.9	10.5	5.1	4.2	4.2	4.2	5.1	5.9	5.1	2.6	
DEPTH=	1.1	5.0	8.5	4.0	3.0	3.0	3.0	4.0	5.0	4.0	1.0	

*SECNO .630

.630	8.90	1672.90	1671.68	.00	1673.50	.60	3.64	.02	1668.00
17136.0	8465.2	5565.6	3105.2	2039.3	624.6	653.6	140.7	36.1	1668.00
.09	4.15	8.91	4.75	.070	.055	.070	.000	1664.00	9253.08
.006795	300.	500.	600.	2	12	0	.00	970.95	10224.03

FLOW DISTRIBUTION FOR SECNO= .63 CWSEL= 1672.90

STA=	9253.	9524.	9629.	9799.	9853.	9967.	9967.	10044.	10128.	10152.	10224.
PER Q=	3.3	6.3	15.5	7.7	16.6	.0	32.5	12.2	3.4	2.6	
AREA=	280.7	304.2	629.1	262.9	562.2	.2	624.6	413.2	114.1	126.2	
VEL=	2.0	3.6	4.2	5.1	5.1	5.1	8.9	5.1	5.1	3.5	
DEPTH=	1.0	2.9	3.7	4.9	4.9	4.9	8.1	4.9	4.9	1.7	

*SECNO .710

.710	11.34	1675.34	1674.34	.00	1676.27	.93	2.67	.10	1668.00
17136.0	6292.7	9077.3	1766.0	1534.7	919.0	384.0	168.2	43.7	1668.00
.11	4.10	9.88	4.60	.070	.055	.070	.000	1664.00	9446.39
.006801	370.	400.	440.	2	11	0	.00	742.24	10188.63

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .71 CWSEL= 1675.34

STA=	9446.	9806.	9930.	9974.	10071.	10090.	10126.	10189.
PER Q=	12.5	14.5	9.7	53.0	4.3	4.4	1.7	
AREA=	721.2	534.4	279.1	919.0	122.0	158.8	103.1	
VEL=	3.0	4.7	6.0	9.9	6.0	4.7	2.8	
DEPTH=	2.0	4.3	6.3	9.5	6.3	4.4	1.6	

CCHV= .300 CEHV= .500

*SECNO .750

.750	10.96	1676.96	1675.47	.00	1677.41	.45	1.00	.14	1670.00
17136.0	4347.6	6263.6	6524.7	1411.4	815.8	1789.1	183.5	47.7	1670.00
.12	3.08	7.68	3.65	.070	.055	.070	.000	1666.00	9456.01
.003949	180.	200.	210.	2	10	0	.00	1057.94	10513.95

FLOW DISTRIBUTION FOR SECNO= .75 CWSEL= 1676.96

STA=	9456.	9820.	9884.	9944.	9944.	10028.	10060.	10080.	10120.	10146.	10173.	10214.	10324.
PER Q=	12.2	4.0	9.1	.0	36.6	6.4	4.1	4.9	4.7	4.2	3.2	5.2	
AREA=	830.8	222.4	356.6	1.5	815.8	224.4	142.8	207.8	172.8	163.5	163.6	326.1	
VEL=	2.5	3.1	4.4	4.9	7.7	4.9	4.9	4.1	4.7	4.4	3.3	2.8	
DEPTH=	2.3	3.5	6.0	7.0	9.7	7.0	7.0	5.3	6.6	6.0	4.0	3.0	

STA=	10324.	10391.	10514.
PER Q=	3.2	2.2	
AREA=	198.0	189.9	
VEL=	2.8	2.0	
DEPTH=	3.0	1.5	

*SECNO .840

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

.840	9.29	1679.29	1677.45	.00	1679.90	.61	2.41	.08	1672.00
17136.0	2224.5	4166.7	10744.8	413.4	495.5	1998.7	217.6	56.9	1672.00
.14	5.38	8.41	5.38	.070	.070	.070	.000	1670.00	9867.32
.008485	420.	440.	430.	1	16	0	.00	814.81	11050.27

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .84 CWSEL= 1679.29

STA=	9867.	9975.	10030.	10080.	10110.	10125.	10150.	10230.	10290.	10380.	10460.	11050.
PER Q=	13.0	24.3	12.5	7.5	5.8	7.7	14.6	5.0	3.2	4.4	2.0	
AREA=	413.4	495.5	319.1	191.5	124.2	182.1	422.6	197.0	175.4	202.6	184.2	
VEL=	5.4	8.4	6.7	6.7	8.0	7.3	5.9	4.3	3.2	3.7	1.8	
DEPTH=	3.8	9.0	6.4	6.4	8.3	7.3	5.3	3.3	1.9	2.5	.3	

CCHV= .100 CEHV= .300
*SECNO .990

.990	6.13	1684.13	1682.73	.00	1684.39	.26	4.46	.03	1680.00
17136.0	249.9	2215.4	14670.7	82.6	331.6	4119.7	269.9	74.8	1680.00
.18	3.02	6.68	3.56	.070	.055	.070	.000	1678.00	9931.00
.005836	890.	900.	550.	2	11	0	.00	1861.43	11792.43

FLOW DISTRIBUTION FOR SECNO= .99 CWSEL= 1684.13

STA=	9931.	9970.	10026.	10147.	10277.	10327.	10368.	10419.	10542.	10747.	10897.	11420.	11790.
PER Q=	1.5	12.9	7.7	7.0	7.2	8.0	9.8	17.9	13.0	5.0	6.5	3.5	
AREA=	82.6	331.6	379.2	364.4	256.2	253.1	308.6	635.3	640.5	320.4	612.8	349.0	
VEL=	3.0	6.7	3.5	3.3	4.8	5.4	5.4	4.8	3.5	2.7	1.8	1.7	
DEPTH=	2.1	5.9	3.1	2.8	5.1	6.1	6.1	5.1	3.1	2.1	1.2	.9	

STA=	11790.	11792.
PER Q=	.0	
AREA=	.2	
VEL=	.3	
DEPTH=	.1	

*SECNO 1.090

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.090	7.53	1687.53	1687.53	.00	1688.54	1.02	3.42	.23	1682.00
17136.0	754.2	6685.2	9696.6	139.4	554.5	2671.9	310.5	92.6	1682.00
.20	5.41	12.06	3.63	.070	.045	.070	.000	1680.00	9922.68
.009939	500.	500.	440.	0	11	0	.00	1635.16	11557.83

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.09 CWSEL= 1687.53

STA=	9923.	9960.	10039.	10090.	10150.	10356.	10580.	10926.	11500.	11558.
PER Q=	4.4	39.0	10.8	6.1	10.6	13.0	8.6	7.4	.1	
AREA=	139.4	554.5	279.7	212.5	479.3	566.9	527.0	591.2	15.2	
VEL=	5.4	12.1	6.6	4.9	3.8	3.9	2.8	2.2	.9	
DEPTH=	3.7	7.1	5.5	3.5	2.3	2.5	1.5	1.0	.3	

*SECNO 1.180

1.180	11.48	1691.48	1691.32	.00	1692.81	1.32	4.17	.09	1684.00
17136.0	968.1	10642.9	5525.0	175.7	945.1	1447.0	337.5	103.4	1684.00
.21	5.51	11.26	3.82	.070	.060	.070	.000	1680.00	9884.72
.009329	500.	500.	350.	2	16	0	.00	933.28	10818.00

FLOW DISTRIBUTION FOR SECNO= 1.18 CWSEL= 1691.48

STA=	9885.	9899.	9913.	9927.	9937.	10029.	10063.	10104.	10199.	10670.	10818.
PER Q=	.1	.8	2.1	2.7	62.1	9.2	5.9	5.1	10.8	1.1	
AREA=	10.4	35.0	64.7	65.6	945.1	222.6	183.1	234.1	697.7	109.5	
VEL=	1.7	3.7	5.5	7.0	11.3	7.1	5.6	3.8	2.7	1.7	
DEPTH=	.7	2.5	4.5	6.5	10.3	6.5	4.5	2.5	1.5	.7	

*SECNO 1.270

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

1.270	11.18	1695.18	1692.32	.00	1695.66	.48	2.77	.08	1688.00
17136.0	2367.2	6746.6	8022.1	620.1	934.6	1876.3	370.6	112.5	1686.00
.24	3.82	7.22	4.28	.070	.060	.070	.000	1684.00	9778.13
.003986	450.	460.	500.	3	19	0	.00	696.55	10474.68

FLOW DISTRIBUTION FOR SECNO= 1.27 CWSEL= 1695.18

STA=	9778.	9802.	9834.	9885.	9937.	10031.	10121.	10200.	10280.	10410.	10475.
PER Q=	.1	.9	4.3	8.5	39.4	23.2	12.9	6.8	3.7	.2	
AREA=	13.8	70.8	212.1	323.3	934.6	730.9	491.3	333.1	282.9	38.0	
VEL=	.9	2.2	3.5	4.5	7.2	5.4	4.5	3.5	2.3	.9	
DEPTH=	.6	2.2	4.2	6.2	9.9	8.2	6.2	4.2	2.2	.6	

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .300 CEHV=     .500
*SECNO 1.370

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .68

    1.370      9.50   1697.50   1696.53       .00   1698.46       .96      2.57       .24   1692.00
  17136.0    8873.8    8002.1     260.0    1692.8     792.9      58.7     400.9     118.6   1692.00
      .26      5.24     10.09      4.43      .070      .055      .070      .000   1688.00   9507.07
  .008686      400.      500.      440.         2        14         0       .00    544.58  10051.65


FLOW DISTRIBUTION FOR SECNO=      1.37          CWSEL=   1697.50

STA=    9507.    9549.    9580.    9932.   10030.   10038.   10046.   10052.
  PER Q=      .3      1.6     49.8     46.7      1.1       .4       .0
   AREA=    31.5     77.5   1583.8    792.9     34.6     19.7      4.4
    VEL=     1.6      3.6      5.4     10.1      5.3      3.6      1.6
  DEPTH=      .7      2.5      4.5      8.1      4.5      2.5       .7

CCHV=     .100 CEHV=     .300
*SECNO 1.470
    1.470     11.17   1701.17   1699.58       .00   1701.92       .75      3.44       .02   1694.00
  17136.0    9822.7    6665.7     647.7    2118.1     699.4     156.4     432.2     125.1   1694.00
      .28      4.64      9.53      4.14      .070      .055      .070      .000   1690.00   9490.68
  .005677      490.      500.      520.         2         5         0       .00    597.88  10088.56


FLOW DISTRIBUTION FOR SECNO=      1.47          CWSEL=   1701.17

STA=    9491.    9580.    9596.    9801.    9912.    9964.   10032.   10057.   10089.
  PER Q=     3.1      3.2     29.6     11.2     10.2     38.9      3.3       .4
   AREA=   169.1    101.3   1058.9    463.1    325.6    699.4    121.0     35.4
    VEL=     3.2      5.4      4.8      4.1      5.4      9.5      4.7      2.1
  DEPTH=     1.9      6.3      5.2      4.2      6.2     10.3      5.0      1.1

*SECNO 1.560
    1.560     11.88   1703.88   1702.90       .00   1704.76       .88      2.80       .04   1698.00
  17136.0    9418.7    7510.5     206.9    1995.2     745.8      57.9     460.7     130.9   1698.00
      .29      4.72     10.07      3.57      .070      .055      .070      .000   1692.00   9456.06
  .007006      400.      500.      540.         3         6         0       .00    601.15  10057.21
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.56 CWSEL= 1703.88

STA=	9456.	9497.	9564.	9664.	9690.	9951.	10029.	10034.	10039.	10057.
PER Q=	.4	4.1	9.9	2.6	38.0	43.8	.7	.3	.2	
AREA=	38.2	195.0	387.0	100.3	1274.6	745.8	25.7	15.3	16.9	
VEL=	1.7	3.6	4.4	4.4	5.1	10.1	4.9	3.4	1.7	
DEPTH=	.9	2.9	3.9	3.9	4.9	9.7	4.9	2.9	.9	

*SECNO 1.600

1.600	13.16	1705.16	1703.45	.00	1705.84	.68	1.06	.02	1696.00
17136.0	10614.3	6170.1	351.6	2426.0	659.0	86.3	473.5	133.6	1696.00
.30	4.38	9.36	4.08	.070	.055	.070	.000	1692.00	9429.54
.004741	190.	180.	180.	2	10	0	.00	619.80	10049.33

FLOW DISTRIBUTION FOR SECNO= 1.60 CWSEL= 1705.16

STA=	9430.	9448.	9519.	9799.	9907.	9960.	10017.	10021.	10025.	10028.	10031.	10049.
PER Q=	.1	2.2	25.8	19.1	14.8	36.0	1.0	.6	.3	.1	.1	
AREA=	10.8	152.9	1167.1	665.7	429.5	659.0	32.0	22.6	13.9	7.1	10.6	
VEL=	1.0	2.4	3.8	4.9	5.9	9.4	5.5	4.5	3.4	2.2	1.0	
DEPTH=	.6	2.2	4.2	6.2	8.2	11.5	8.2	6.2	4.2	2.2	.6	

V= .300 CEHV= .500

*SECNO 1.660

1.660	10.48	1706.48	1704.02	.00	1707.22	.74	1.35	.03	1700.00
17136.0	1964.6	6617.1	8554.3	536.0	756.6	1487.1	492.1	137.2	1700.00
.31	3.67	8.75	5.75	.070	.055	.070	.000	1696.00	9775.22
.005469	300.	250.	240.	2	14	0	.00	509.33	10284.55

FLOW DISTRIBUTION FOR SECNO= 1.66 CWSEL= 1706.48

STA=	9775.	9932.	9952.	10034.	10102.	10119.	10190.	10205.	10278.	10285.
PER Q=	8.3	3.2	38.6	14.1	4.6	23.0	4.6	3.7	.0	
AREA=	423.7	112.3	756.6	441.9	128.2	602.6	126.3	186.3	1.7	
VEL=	3.3	4.9	8.7	5.5	6.2	6.5	6.2	3.4	.6	
DEPTH=	2.7	5.5	9.2	6.5	7.8	8.5	8.0	2.6	.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300

*SECNO 1.750

1.750	11.30	1709.30	1707.82	.00	1710.31	1.02	3.00	.08	1702.00
17136.0	266.1	9930.8	6939.1	60.1	1005.8	1506.9	523.4	143.2	1702.00
.33	4.43	9.87	4.60	.070	.055	.070	.000	1698.00	9953.03
.006423	480.	500.	520.	2	11	0	.00	524.72	10477.75

FLOW DISTRIBUTION FOR SECNO= 1.75 CWSEL= 1709.30

STA=	9953.	9956.	9961.	9966.	9970.	10072.	10151.	10321.	10430.	10478.
PER Q=	.0	.2	.5	.9	58.0	16.8	19.1	4.3	.2	
AREA=	2.2	10.7	19.4	27.8	1005.8	497.6	727.6	250.8	31.0	
VEL=	1.2	2.8	4.2	5.5	9.9	5.8	4.5	3.0	1.3	
DEPTH=	.6	2.3	4.3	6.3	9.8	6.3	4.3	2.3	.6	

*SECNO 1.810

1.810	11.15	1711.15	1708.59	.00	1711.73	.58	1.37	.04	1704.00
17136.0	243.0	7337.2	9555.8	67.8	931.5	2196.1	540.7	146.3	1704.00
.34	3.58	7.88	4.35	.070	.055	.070	.000	1700.00	9946.76
.004102	300.	300.	240.	2	19	0	.00	527.56	10474.31

FLOW DISTRIBUTION FOR SECNO= 1.81 CWSEL= 1711.15

STA=	9947.	9966.	10061.	10188.	10298.	10328.	10351.	10432.	10474.
PER Q=	1.4	42.8	20.9	17.2	6.2	3.7	6.9	.8	
AREA=	67.8	931.5	783.2	658.4	211.4	140.7	336.8	65.6	
VEL=	3.6	7.9	4.6	4.5	5.0	4.6	3.5	2.1	
DEPTH=	3.6	9.8	6.1	6.0	7.1	6.1	4.1	1.5	

*SECNO 1.850

1.850	11.91	1711.91	1709.49	.00	1712.40	.49	.66	.01	1706.00
17136.0	1505.3	9046.8	6583.8	422.8	1313.7	1795.3	553.7	148.5	1706.00
.35	3.56	6.89	3.67	.070	.055	.070	.000	1700.00	9819.46
.003586	210.	190.	150.	2	9	0	.00	631.64	10451.10

FLOW DISTRIBUTION FOR SECNO= 1.85 CWSEL= 1711.91

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9819.	9828.	9836.	9916.	10065.	10130.	10187.	10295.	10368.	10414.	10425.	10433.	10451.
PER Q=	.1	.4	8.4	52.8	6.9	4.1	11.3	10.5	4.8	.5	.2	.1	
AREA=	8.2	24.2	390.4	1313.7	319.6	223.4	529.4	433.0	225.8	30.9	15.8	17.4	
VEL=	1.2	2.5	3.7	6.9	3.7	3.2	3.7	4.2	3.7	2.6	2.0	1.2	
DEPTH=	1.0	2.9	4.9	8.8	4.9	3.9	4.9	5.9	4.9	2.9	1.9	1.0	

*SECNO 1.880

1.880	10.66	1712.76	1711.16	.00	1713.31	.55	.89	.02	1704.00
17136.0	5000.2	4532.4	7603.5	1062.1	504.5	1836.4	570.7	151.8	1704.00
.36	4.71	8.98	4.14	.070	.055	.070	.000	1702.10	9770.52
.005101	190.	200.	230.	2	14	0	.00	709.32	10479.85

FLOW DISTRIBUTION FOR SECNO= 1.88 CWSEL= 1712.76

STA=	9771.	9890.	9950.	9975.	10025.	10040.	10060.	10210.	10300.	10340.	10370.	10390.	10455.
PER Q=	12.6	9.8	6.7	26.4	4.0	3.3	8.0	7.2	6.5	6.4	3.3	5.2	
AREA=	522.4	345.6	194.0	504.5	116.4	115.2	439.1	338.5	230.4	202.8	115.2	244.4	
VEL=	4.1	4.9	5.9	9.0	5.9	4.9	3.1	3.7	4.9	5.4	4.9	3.7	
DEPTH=	4.4	5.8	7.8	10.1	7.8	5.8	2.9	3.8	5.8	6.8	5.8	3.8	

STA=	10455.	10480.
PER Q=	.4	
AREA=	34.3	
VEL=	1.9	
DEPTH=	1.4	

*SECNO 2.000

2.000	6.50	1715.00	1713.82	.00	1715.58	.58	2.26	.01	1710.00
17136.0	118.3	3870.2	13147.4	33.5	443.7	2568.9	594.5	157.1	1709.00
.38	3.54	8.72	5.12	.070	.055	.070	.000	1708.50	9966.61
.008924	550.	490.	230.	2	8	0	.00	850.88	10817.49

FLOW DISTRIBUTION FOR SECNO= 2.00 CWSEL= 1715.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9967.	9980.	10050.	10090.	10115.	10150.	10360.	10535.	10590.	10610.	10675.	10700.	10755.
PER Q=	.7	22.6	9.9	5.4	4.1	8.5	7.0	6.5	4.3	17.2	5.4	6.5	
AREA=	33.5	443.7	250.0	143.7	140.0	440.8	367.3	219.9	115.0	422.4	143.7	219.9	
VEL=	3.5	8.7	6.8	6.4	5.0	3.3	3.3	5.1	6.4	7.0	6.4	5.1	
DEPTH=	2.5	6.3	6.2	5.7	4.0	2.1	2.1	4.0	5.7	6.5	5.7	4.0	

STA=	10755.	10817.
PER Q=	1.9	
AREA=	106.2	
VEL=	3.1	
DEPTH=	1.7	

*SECNO 2.080

2.080	7.94	1717.94	1716.71	.00	1718.59	.65	2.99	.02	1716.00
17136.0	7.4	4563.7	12564.9	3.8	564.7	2183.7	614.6	162.5	1716.00
.39	1.96	8.08	5.75	.070	.055	.070	.000	1710.00	9967.14
.010264	440.	440.	270.	2	8	0	.00	776.48	10743.62

FLOW DISTRIBUTION FOR SECNO= 2.08 CWSEL= 1717.94

STA=	9967.	9971.	10080.	10201.	10300.	10360.	10450.	10490.	10510.	10545.	10580.	10700.	10744.
PER Q=	.0	26.6	2.8	2.3	4.5	16.2	12.7	7.9	11.1	6.3	9.1	.5	
AREA=	3.8	564.7	172.9	143.0	176.3	444.5	277.6	158.8	242.9	172.9	352.7	42.3	
VEL=	2.0	8.1	2.7	2.7	4.4	6.2	7.8	8.6	7.8	6.2	4.4	2.1	
DEPTH=	1.0	5.2	1.4	1.4	2.9	4.9	6.9	7.9	6.9	4.9	2.9	1.0	

*SECNO 2.170

2.170	7.61	1721.61	1720.17	.00	1722.35	.73	3.74	.03	1716.00
17136.0	2893.2	6910.5	7332.4	545.4	777.0	1474.0	640.4	168.9	1716.00
.41	5.30	8.89	4.97	.070	.055	.070	.000	1714.00	9814.64
.007793	500.	520.	350.	2	15	0	.00	643.82	10458.46

FLOW DISTRIBUTION FOR SECNO= 2.17 CWSEL= 1721.61

STA=	9815.	9834.	9861.	9890.	9892.	9948.	10056.	10137.	10200.	10234.	10417.	10458.
PER Q=	.1	1.5	3.9	.5	10.8	40.3	15.7	12.1	4.8	9.8	.3	
AREA=	15.3	72.3	129.7	14.2	313.9	777.0	454.0	351.7	159.6	475.1	33.7	
VEL=	1.6	3.5	5.2	5.9	5.9	8.9	5.9	5.9	5.2	3.5	1.6	
DEPTH=	.8	2.6	4.6	5.6	5.6	7.2	5.6	5.6	4.6	2.6	.8	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.240

3301 HV CHANGED MORE THAN HVINS

2.240	10.34	1724.34	1722.91	.00	1725.58	1.24	3.08	.15	1718.00
17136.0	3165.8	10717.8	3252.3	587.8	1022.8	586.2	662.4	173.5	1718.00
.42	5.39	10.48	5.55	.070	.055	.070	.000	1714.00	9793.87
.008279	380.	380.	390.	2	11	0	.00	398.95	10192.82

FLOW DISTRIBUTION FOR SECNO= 2.24 CWSEL= 1724.34

STA=	9794.	9826.	9855.	9940.	10055.	10149.	10166.	10188.	10193.
PER Q=	.5	2.5	15.5	62.5	17.1	1.5	.4	.0	
AREA=	39.5	99.1	449.1	1022.8	496.6	59.8	29.0	.8	
VEL=	2.3	4.3	5.9	10.5	5.9	4.3	2.3	.6	
DEPTH=	1.2	3.3	5.3	8.8	5.3	3.3	1.3	.2	

*SECNO 2.330

3301 HV CHANGED MORE THAN HVINS

2.330	10.98	1727.98	1726.37	.00	1729.86	1.88	4.09	.19	1720.00
7136.0	5997.1	10913.0	226.0	807.1	865.3	47.8	682.7	176.8	1720.00
.44	7.43	12.61	4.73	.070	.055	.070	.000	1717.00	9800.20
.010027	450.	450.	450.	2	11	0	.00	241.77	10041.97

FLOW DISTRIBUTION FOR SECNO= 2.33 CWSEL= 1727.98

STA=	9800.	9840.	9870.	9890.	9945.	10030.	10042.
PER Q=	1.5	5.4	6.3	21.7	63.7	1.3	
AREA=	79.2	149.4	139.6	438.9	865.3	47.8	
VEL=	3.4	6.2	7.7	8.5	12.6	4.7	
DEPTH=	2.0	5.0	7.0	8.0	10.2	4.0	

*SECNO 2.400

3301 HV CHANGED MORE THAN HVINS

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41

    2.400     13.18   1731.18   1727.30       .00   1732.22      1.04      2.28       .08   1718.00
  17136.0   10625.2    5635.4     875.3    1574.6     527.3     177.7     697.6     178.6   1718.00
      .45      6.75     10.69      4.93      .070      .055      .070      .000   1718.00   9797.04
 .005024      300.      360.      370.         2        15         0       .00    249.92  10046.96


FLOW DISTRIBUTION FOR SECNO=      2.40          CWSEL=   1731.18

STA=    9797.    9800.    9840.    9890.    9940.    9980.   10020.   10047.
  PER Q=      .0      3.8     14.6     21.0     22.6     32.9      5.1
   AREA=     1.7    167.3    409.1    509.1    487.3    527.3    177.7
    VEL=     1.0      3.9      6.1      7.1      8.0     10.7      4.9
  DEPTH=      .6      4.2      8.2     10.2     12.2     13.2      6.6

CCHV=     .300 CEHV=     .500
*SECNO 2.470
    2.470     13.38   1733.38   1729.88       .00   1733.95       .57      1.58       .14   1724.00
  17136.0     419.8    6333.3   10382.9     116.4     790.8    2276.1     722.9     181.8   1724.00
      .47      3.61      8.01      4.56      .070      .055      .070      .000   1720.00   9927.38
 .003241      340.      400.      450.         2        19         0       .00    429.52  10356.90


FLOW DISTRIBUTION FOR SECNO=      2.47          CWSEL=   1733.38

STA=    9927.    9962.   10028.   10090.   10110.   10200.   10301.   10340.   10357.
  PER Q=      2.4     37.0     15.2      4.4     22.0     15.5      3.2       .3
   AREA=    116.4    790.8    521.9    157.3    756.5    639.6    172.2     28.5
    VEL=      3.6      8.0      5.0      4.7      5.0      4.2      3.2      1.7
  DEPTH=      3.3     12.1      8.4      7.9      8.4      6.4      4.4      1.7

CCHV=     .100 CEHV=     .300
*SECNO 2.520
    2.520     12.29   1734.29   1731.27       .00   1734.72       .43       .76       .01   1726.00
  17136.0    2476.5    6030.2    8629.3     640.3     836.3    2289.8     743.2     184.7   1726.00
      .48      3.87      7.21      3.77      .070      .055      .070      .000   1722.00   9835.00
 .002748      270.      260.      250.         2        18         0       .00    590.26  10425.26
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      2.52          CWSEL=   1734.29

STA=    9835.    9958.   10029.   10121.   10212.   10279.   10317.   10364.   10425.
  PER Q=     14.5     35.2     16.4     12.7      9.4      5.2      4.9      1.7
   AREA=    640.3    836.3    671.8    572.3    425.6    235.8    248.7    135.5
    VEL=      3.9      7.2      4.2      3.8      3.8      3.8      3.4      2.2
  DEPTH=      5.2     11.8      7.3      6.3      6.3      6.3      5.3      2.2

*SECNO 2.600
       ***********************************************************************
             DOWNSTREAM PARADISE WASH CONFLUENCE
       ***********************************************************************
    2.600     11.66   1735.66   1733.90       .00   1736.21       .55      1.45       .04   1730.00
  17136.0    1849.6    6949.0    8337.4     594.9     861.3    2047.4     779.5     191.2   1728.00
      .50      3.11      8.07      4.07      .070      .055      .070      .000   1724.00   9755.07
  .004155      390.      430.      450.         2        14         0       .00    704.15  10459.22


FLOW DISTRIBUTION FOR SECNO=      2.60          CWSEL=   1735.66

STA=    9755.    9780.    9820.    9935.    9945.   10030.   10140.   10265.   10335.   10370.   10390.   10440.   10459.
  PER Q=       .1      1.6      8.0      1.0     40.6     20.7     13.0      4.9      3.6      2.9      3.5       .1
   AREA=     20.7    106.5    421.1     46.6    861.3    732.8    582.7    256.3    163.2    113.2    183.1     16.0
    VEL=      1.2      2.6      3.3      3.8      8.1      4.8      3.8      3.3      3.8      4.3      3.2      1.2
  DEPTH=       .8      2.7      3.7      4.7     10.1      6.7      4.7      3.7      4.7      5.7      3.7       .8

CCHV=     .600 CEHV=     .900
*SECNO 2.730

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .62

    2.730     10.95   1738.95   1737.67       .00   1740.21      1.26      3.36       .64   1732.00
  13541.0    4658.2    7246.5    1636.3     857.1     646.5     300.8     816.9     198.5   1732.00
      .52      5.43     11.21      5.44      .065      .050      .065      .000   1728.00   9773.02
  .006728      900.      750.      350.         2        15         0       .00    340.79  10113.80
```

```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      2.73          CWSEL=   1738.95

STA=    9773.    9788.    9812.    9886.    9972.   10036.   10071.   10086.   10101.   10114.
  PER Q=      .1      1.0     10.1     23.3     53.5      9.4      2.0       .6       .0
   AREA=     7.0     46.8    291.1    512.3    646.5    206.5     59.2     29.2      6.0
    VEL=     1.1      2.9      4.7      6.2     11.2      6.1      4.7      2.9      1.1
  DEPTH=      .5      1.9      3.9      5.9     10.0      5.9      3.9      1.9       .5

1490 NH CARD USED
*SECNO 2.820

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.12

        ************************************************************************
           THIS IS THE START OF THE DESERT HILLS WASH AND COINCIDES WITH
           SECTION 0.04.     Q100=13,541 CFS
           FLOW IS FROM APACHE WASH AND DESERT HILLS WASH
        ************************************************************************
    2.820     12.74   1741.74   1738.20       .00   1741.94       .20      1.10       .63   1736.00
  13541.0    3836.0    2079.7    7625.3    1454.7     450.4    2077.4     841.9     202.7   1736.00
      .55      2.64      4.62      3.67      .065      .050      .056      .000   1729.00   9408.31
 .001494      200.      480.      500.         2        10         0       .00    690.57  10098.88


FLOW DISTRIBUTION FOR SECNO=      2.82          CWSEL=   1741.74

STA=    9408.    9550.    9710.    9765.    9950.    9980.    9990.   10000.   10010.   10025.   10055.   10099.
  PER Q=      9.1     19.2     15.4     22.2      6.1      3.6      5.5      5.5      5.5      6.1      1.8
   AREA=    537.1    917.7    450.4   1061.0    202.1     97.4    122.4    122.4    146.0    202.1    124.1
    VEL=      2.3      2.8      4.6      2.8      4.1      5.0      6.1      6.1      5.1      4.1      2.0
  DEPTH=      3.8      5.7      8.2      5.7      6.7      9.7     12.2     12.2      9.7      6.7      2.8

1490 NH CARD USED
*SECNO 2.870
        ************************************************************************
           THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.13
        ************************************************************************
    2.870     10.40   1742.40   1738.68       .00   1742.52       .12       .53       .05   1738.00
  13541.0    1002.0    2040.3   10498.7     615.3     614.2    3807.9     884.8     211.3   1738.00
      .60      1.63      3.32      2.76      .065      .050      .056      .000   1732.00   9314.15
 .001076      240.      275.      500.         2        11         0       .00   1148.42  10462.57
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.87 CWSEL= 1742.40

STA=	9314.	9523.	9620.	9701.	9774.	9820.	9922.	9984.	10016.	10028.	10189.	10463.
PER Q=	7.4	15.1	5.3	4.8	4.8	16.1	12.6	10.9	3.6	16.1	3.3	
AREA=	615.3	614.2	354.4	323.3	267.0	650.3	462.4	324.4	114.0	889.3	422.7	
VEL=	1.6	3.3	2.0	2.0	2.4	3.4	3.7	4.6	4.3	2.4	1.1	
DEPTH=	2.9	6.3	4.4	4.4	5.8	6.4	7.4	10.2	9.4	5.5	1.5	

1490 NH CARD USED
*SECNO 2.900

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

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*********************************************************************
   THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.19
*********************************************************************
```

2.900	9.63	1742.63	1740.59	.00	1742.83	.19	.24	.07	1738.00
13541.0	1459.8	1704.2	10377.0	590.3	310.0	3209.7	901.3	215.5	1738.00
.61	2.47	5.50	3.23	.065	.050	.057	.000	1733.00	9450.78
002348	175.	190.	150.	1	13	0	.00	1185.96	10696.88

FLOW DISTRIBUTION FOR SECNO= 2.90 CWSEL= 1742.63

STA=	9451.	9645.	9685.	9765.	9850.	9965.	9980.	10000.	10020.	10140.	10190.	10410.	10610.
PER Q=	10.8	12.6	5.6	3.5	8.0	3.6	8.5	6.8	22.7	3.5	4.2	9.0	
AREA=	590.3	310.0	290.0	223.1	416.9	99.4	182.5	160.0	675.0	181.3	313.9	555.0	
VEL=	2.5	5.5	2.6	2.1	2.6	5.0	6.3	5.7	4.6	2.6	1.8	2.2	
DEPTH=	3.0	7.8	3.6	2.6	3.6	6.6	9.1	8.0	5.6	3.6	1.4	2.8	

STA=	10610.	10697.
PER Q=	1.2	
AREA=	112.5	
VEL=	1.5	
DEPTH=	1.3	

CCHV= .600 CEHV= .900

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1490 NH CARD USED
*SECNO 2.920

****
THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.22
****

2.920	9.23	1743.23	1741.11	.00	1743.38	.14	.52	.03	1740.00
13541.0	255.9	1552.0	11733.1	149.3	337.9	4198.3	924.9	222.8	1740.00
.63	1.71	4.59	2.79	.065	.050	.059	.000	1734.00	9325.32
.002176	150.	140.	250.	2	13	0	.00	1506.33	10831.65

FLOW DISTRIBUTION FOR SECNO= 2.92 CWSEL= 1743.23

STA=	9325.	9410.	9465.	9600.	9880.	9975.	9990.	10000.	10025.	10100.	10200.	10435.	10625.
PER Q=	1.9	11.5	5.7	11.8	10.8	3.2	3.4	8.6	9.5	5.5	20.5	5.7	
AREA=	149.3	337.9	369.1	765.5	402.2	93.5	82.3	205.9	337.6	293.4	995.0	424.5	
VEL=	1.7	4.6	2.1	2.1	3.6	4.7	5.6	5.6	3.8	2.5	2.8	1.8	
DEPTH=	1.8	6.1	2.7	2.7	4.2	6.2	8.2	8.2	4.5	2.9	4.2	2.2	

STA=	10625.	10832.
PER Q=	2.0	
AREA=	229.3	
VEL=	1.2	
DEPTH=	1.1	

1490 NH CARD USED
*SECNO 2.970

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

****
THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.31
****

2.970	8.91	1744.91	1744.91	.00	1745.97	1.07	.98	.83	1744.00
7534.0	3.5	3975.5	3555.0	2.1	349.0	5021.4	956.0	232.8	1742.00
.64	1.69	11.39	.71	.065	.050	.616	.000	1736.00	8995.46
.016035	270.	270.	270.	0	10	0	.00	1721.99	10717.45

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      2.97         CWSEL=   1744.91

STA=    8995.    9000.    9065.    9170.    9365.   10717.
  PER Q=       .0     52.8     23.9     22.0      1.3
   AREA=      2.1    349.0    305.3    372.0   4344.1
    VEL=      1.7     11.4      5.9      4.5       .0
  DEPTH=       .5      5.4      2.9      1.9      3.2

CCHV=     .600 CEHV=     .900
*SECNO 3.070
3280 CROSS SECTION      3.07 EXTENDED      1.41 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.10

       ************************************************************************
          THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.40
          BEGINNING OF SPLIT FLOW REACH FROM APACHE WASH TO DESERT HILLS WASH
          Q100=7,328 CFS
       ************************************************************************
   3.070      7.40   1749.40   1748.05       .00   1749.71       .30      3.27       .46   1744.00
  7534.0    3877.7    2213.7    1442.5    1207.3     339.1     471.4     994.1     244.4   1744.00
     .68      3.21      6.53      3.06      .065      .050      .065      .000   1742.00   9629.46
 .003621      540.      520.      420.         4        18         0       .00    550.95  10180.41


FLOW DISTRIBUTION FOR SECNO=      3.07         CWSEL=   1749.40

STA=    9629.    9640.    9665.    9913.    9980.   10028.   10081.   10180.
  PER Q=       .1      2.0     34.9     14.5     29.4     11.4      7.8
   AREA=      7.4     60.1    843.3    296.4    339.1    231.6    239.9
    VEL=      1.1      2.5      3.1      3.7      6.5      3.7      2.4
  DEPTH=       .7      2.4      3.4      4.4      7.0      4.4      2.4

CCHV=     .600 CEHV=     .900
*SECNO 3.130
3280 CROSS SECTION      3.13 EXTENDED       .29 FEET
```

```
*************************************************************************
   FLOW SPILLS OVER INTO DESERT HILLS WASH AT THIS SECTION
   Q100=7,340 CFS
*************************************************************************
   3.130      8.48   1750.48   1749.76      .00   1750.98      .50      1.10      .17   1746.00
  7534.0    4638.5    2745.2     150.2    1335.2     335.3     71.8    1004.0    247.5   1748.00
     .69      3.47      8.19      2.09      .065      .050     .065      .000  1742.00   9461.67
 .006142      200.      280.      300.         3         8        0       .00   638.33  10100.00


FLOW DISTRIBUTION FOR SECNO=      3.13          CWSEL=   1750.48

STA=    9462.    9468.    9513.    9587.    9655.    9675.    9870.    9978.   10028.   10068.   10100.
  PER Q=      .0      2.1      8.1      7.4      2.2     21.2     20.6     36.4      1.8       .2
   AREA=     1.5     66.9    185.8    168.4     50.3    485.7    376.6    335.3     59.3     12.6
    VEL=      .7      2.3      3.3      3.3      3.3      3.3      4.1      8.2      2.3       .9
  DEPTH=      .2      1.5      2.5      2.5      2.5      2.5      3.5      6.8      1.5       .4

*SECNO 3.210
3280 CROSS SECTION      3.21 EXTENDED       .22 FEET

*************************************************************************
   FLOW SPILLS OVER INTO DESERT HILLS WASH AT THIS SECTION
   Q100=7,529 CFS
*************************************************************************
   3.210      6.32   1752.32   1751.61      .00   1752.83      .51      1.84      .01   1750.00
  7534.0    1917.3    5049.2     567.5     645.4     752.7    264.3    1014.9    252.0   1750.00
     .70      2.97      6.71      2.15      .065      .050     .065      .000  1746.00   9624.41
 .006754      250.      310.      350.         2        19        0       .00   765.59  10390.00


FLOW DISTRIBUTION FOR SECNO=      3.21          CWSEL=   1752.32

STA=    9624.    9660.    9680.    9710.    9900.    9965.   10130.   10315.   10390.
  PER Q=      1.2      2.8      4.2     12.8      4.4     67.0      7.3       .2
   AREA=    40.5     56.4     84.6    345.7    118.3    752.7    244.1     20.2
    VEL=     2.2      3.7      3.7      2.8      2.8      6.7      2.3       .8
  DEPTH=     1.1      2.8      2.8      1.8      1.8      4.6      1.3       .3

*SECNO 3.320

3265 DIVIDED FLOW

*************************************************************************
   END OF SPLIT FLOW REACH FROM APACHE WASH TO DESERT HILLS WASH
   Q100=7,534 CFS
*************************************************************************
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3.320	6.42	1756.42	1756.00	.00	1756.84	.42	3.96	.05	1754.00
7534.0	2369.6	2534.7	2629.7	691.3	330.1	840.0	1036.8	263.5	1754.00
.74	3.43	7.68	3.13	.065	.050	.065	.000	1750.00	9624.30
.007813	510.	560.	560.	3	10	0	.00	1080.53	10773.02

FLOW DISTRIBUTION FOR SECNO= 3.32 CWSEL= 1756.42

STA=	9624.	9631.	9725.	9801.	9955.	10020.	10242.	10417.	10461.	10560.	10725.	10773.
PER Q=	.0	4.5	8.9	18.0	33.6	26.0	8.4	.1	.0	.4	.0	
AREA=	1.4	132.7	184.2	372.9	330.1	537.5	247.9	9.3	3.4	36.6	5.3	
VEL=	.7	2.5	3.6	3.6	7.7	3.6	2.6	.7	.5	.7	.5	
DEPTH=	.2	1.4	2.4	2.4	5.1	2.4	1.4	.2	.0	.2	.1	

*SECNO 3.400

3.400	7.99	1759.99	1759.60	.00	1760.47	.48	3.57	.06	1756.00
7534.0	3292.9	2410.0	1831.1	926.3	279.7	646.7	1056.5	274.2	1756.00
.76	3.56	8.62	2.83	.065	.050	.065	.000	1752.00	9500.87
.007538	490.	470.	430.	2	12	0	.00	963.17	10464.04

FLOW DISTRIBUTION FOR SECNO= 3.40 CWSEL= 1759.99

STA=	9501.	9725.	9865.	9920.	9985.	10030.	10060.	10215.	10464.
PER Q=	5.9	11.6	9.0	17.2	32.0	4.9	12.9	6.5	
AREA=	223.3	278.9	164.6	259.5	279.7	89.8	308.8	248.1	
VEL=	2.0	3.1	4.1	5.0	8.6	4.1	3.1	2.0	
DEPTH=	1.0	2.0	3.0	4.0	6.2	3.0	2.0	1.0	

*SECNO 3.480

3.480	7.34	1763.34	1763.06	.00	1763.92	.57	3.36	.08	1760.00
7534.0	1239.2	2137.5	4157.4	465.9	223.6	985.2	1073.0	282.7	1758.00
.78	2.66	9.56	4.22	.065	.050	.065	.000	1756.00	9637.00
.008648	360.	450.	435.	2	9	0	.00	875.07	10512.07

FLOW DISTRIBUTION FOR SECNO= 3.48 CWSEL= 1763.34

STA=	9637.	9672.	9836.	9884.	9911.	9966.	9985.	10019.	10111.	10299.	10512.
PER Q=	.5	7.6	2.2	1.3	2.5	2.3	28.4	30.0	22.1	3.1	
AREA=	23.3	221.5	65.2	36.8	73.6	45.6	223.6	399.2	442.4	143.7	
VEL=	1.6	2.6	2.6	2.6	2.6	3.7	9.6	5.7	3.8	1.6	
DEPTH=	.7	1.3	1.3	1.3	1.3	2.3	6.7	4.3	2.3	.7	

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.520

3.520	9.07	1765.07	1764.98	.00	1765.87	.80	1.75	.20	1760.00
7534.0	1423.2	2855.2	3255.5	445.4	269.5	804.0	1080.3	286.5	1760.00
.79	3.20	10.60	4.05	.065	.050	.065	.000	1756.00	9685.52
.008824	200.	200.	200.	0	12	0	.00	787.51	10473.03

FLOW DISTRIBUTION FOR SECNO= 3.52 CWSEL= 1765.07

STA=	9686.	9852.	9946.	9977.	9982.	10017.	10100.	10274.	10473.
PER Q=	4.9	7.0	5.8	1.2	37.9	24.6	16.6	2.0	
AREA=	167.8	162.8	96.9	17.8	269.5	338.8	358.5	106.7	
VEL=	2.2	3.2	4.5	5.0	10.6	5.5	3.5	1.4	
DEPTH=	1.0	1.7	3.1	4.0	7.7	4.1	2.1	.5	

*SECNO 3.600

3.600	8.44	1768.44	1767.61	.00	1768.85	.40	2.74	.24	1764.00
7534.0	2330.2	2081.3	3122.4	909.3	263.4	780.6	1097.3	294.3	1762.00
.82	2.56	7.90	4.00	.065	.050	.065	.000	1760.00	9454.07
.004860	400.	420.	450.	2	10	0	.00	819.97	10274.03

DISTRIBUTION FOR SECNO= 3.60 CWSEL= 1768.44

STA=	9454.	9476.	9891.	9980.	10014.	10085.	10161.	10248.	10274.
PER Q=	.0	16.2	14.7	27.6	25.4	12.6	3.4	.0	
AREA=	4.8	600.2	304.3	263.4	388.3	261.4	125.1	5.8	
VEL=	.6	2.0	3.6	7.9	4.9	3.6	2.0	.6	
DEPTH=	.2	1.4	3.4	7.7	5.4	3.4	1.4	.2	

*SECNO 3.650

3265 DIVIDED FLOW

3.650	7.78	1769.78	1768.51	.00	1770.25	.46	1.35	.05	1764.00
7534.0	1538.7	2629.6	3365.6	527.1	325.3	989.9	1108.6	298.7	1764.00
.83	2.92	8.08	3.40	.065	.050	.065	.000	1762.00	9414.98
.005368	250.	280.	260.	3	19	0	.00	675.40	10357.25

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.65 CWSEL= 1769.78

STA=	9415.	9470.	9568.	9970.	10015.	10357.
PER Q=	1.0	1.8	17.6	34.9	44.7	
AREA=	49.1	87.6	390.4	325.3	989.9	
VEL=	1.6	1.6	3.4	8.1	3.4	
DEPTH=	.9	.9	1.0	7.2	2.9	

*SECNO 3.750

3265 DIVIDED FLOW

3.750	9.02	1773.02	1772.68	.00	1773.51	.49	3.24	.02	1772.00
7534.0	78.8	2345.3	5109.9	51.6	273.8	1441.3	1129.3	308.1	1768.00
.86	1.53	8.56	3.55	.065	.050	.065	.000	1764.00	9681.98
.007965	500.	500.	500.	4	9	0	.00	962.78	10851.46

FLOW DISTRIBUTION FOR SECNO= 3.75 CWSEL= 1773.02

STA=	9682.	9710.	9725.	9753.	9975.	10020.	10150.	10310.	10800.	10805.	10815.	10840.	10851.
PER Q=	.2	.4	.2	.1	31.1	35.8	14.0	13.7	.4	1.7	2.2	.1	
AREA=	14.3	15.3	14.3	7.8	273.8	522.4	323.0	499.2	10.1	30.2	50.5	5.8	
VEL=	1.3	2.1	1.3	1.3	8.6	5.2	3.3	2.1	3.1	4.3	3.3	1.3	
DEPTH=	.5	1.0	.5	.0	6.1	4.0	2.0	1.0	2.0	3.0	2.0	.5	

*SECNO 3.780

3.780	8.46	1774.46	1774.12	.00	1775.20	.74	1.47	.22	1774.00
7534.0	121.8	3878.9	3533.2	100.7	445.6	838.3	1135.5	311.7	1772.00
.87	1.21	8.71	4.21	.065	.050	.065	.000	1766.00	9724.82
.009381	170.	170.	170.	2	12	0	.00	869.24	10594.07

FLOW DISTRIBUTION FOR SECNO= 3.78 CWSEL= 1774.46

STA=	9725.	9978.	10061.	10120.	10142.	10151.	10163.	10226.	10348.	10594.
PER Q=	1.6	51.5	7.8	5.1	4.4	6.5	14.5	6.8	1.7	
AREA=	100.7	445.6	146.3	76.6	49.3	69.4	215.7	178.9	102.2	
VEL=	1.2	8.7	4.0	5.1	6.8	7.1	5.1	2.9	1.3	
DEPTH=	.4	5.4	2.5	3.5	5.5	5.8	3.5	1.5	.4	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.860

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*********************************************************************
   Q100=7,213 CFS
*********************************************************************
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3.860	8.23	1778.23	1777.33	.00	1778.86	.64	3.61	.06	1776.00
7213.0	462.9	3426.8	3323.3	209.3	414.0	788.2	1149.8	319.1	1774.00
.89	2.21	8.28	4.22	.065	.050	.065	.000	1770.00	9801.63
.007186	360.	400.	490.	2	15	0	.00	586.08	10387.70

FLOW DISTRIBUTION FOR SECNO= 3.86 CWSEL= 1778.23

STA=	9802.	9981.	10049.	10084.	10108.	10125.	10246.	10275.	10301.	10341.	10388.
PER Q=	6.4	47.5	10.5	7.3	3.2	3.0	5.5	7.7	7.7	1.2	
AREA=	209.3	414.0	149.1	103.3	55.0	105.0	94.5	109.3	130.6	41.5	
VEL=	2.2	8.3	5.1	5.1	4.2	2.1	4.2	5.1	4.2	2.2	
DEPTH=	1.2	6.1	4.2	4.2	3.2	.9	3.2	4.2	3.2	.9	

*SECNO 3.960

3.960	8.42	1782.42	1782.14	.00	1783.10	.68	4.20	.04	1782.00
7213.0	1.1	5259.1	1952.9	1.3	701.0	637.1	1165.2	326.2	1782.00
.91	.81	7.50	3.07	.065	.050	.065	.000	1774.00	9876.54
.010084	490.	520.	460.	3	6	0	.00	724.88	10601.42

FLOW DISTRIBUTION FOR SECNO= 3.96 CWSEL= 1782.42

STA=	9877.	9883.	10057.	10180.	10410.	10418.	10423.	10433.	10548.	10601.
PER Q=	.0	72.9	.9	13.1	2.0	1.7	2.6	6.6	.1	
AREA=	1.3	701.0	51.4	326.3	28.2	20.1	36.8	163.1	11.2	
VEL=	.8	7.5	1.3	2.9	5.1	6.2	5.2	2.9	.8	
DEPTH=	.2	4.0	.4	1.4	3.4	4.4	3.4	1.4	.2	

*SECNO 4.050

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*********************************************************************
   BEGINNING OF EAST CHANNEL CAUSED BY FLOW SPLIT UPSTREAM OF
   CAREFREE HIGHWAY. TOTAL FLOW IN APACHE WASH Q100= 5347 CFS.
   TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1866 CFS.
*********************************************************************
```

4.050	7.02	1786.02	1784.62	.00	1786.42	.40	3.16	.17	1788.00
5347.0	.0	1825.6	3521.4	.0	281.2	845.1	1175.7	330.2	1782.00
.93	.00	6.49	4.17	.000	.050	.065	.000	1779.00	9967.42
.005902	400.	500.	285.	2	18	0	.00	303.87	10271.29

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.05 CWSEL= 1786.02

STA=	9967.	10025.	10200.	10270.
PER Q=	34.1	58.4	7.4	
AREA=	281.2	703.6	141.4	
VEL=	6.5	4.4	2.8	
DEPTH=	4.9	4.0	2.0	

*SECNO 4.110

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

4.110	6.38	1788.38	1788.38	.00	1789.57	1.19	2.44	.71	1786.00
5347.0	13.8	2709.3	2623.9	4.6	240.1	531.6	1182.0	332.2	1784.00
.94	2.99	11.28	4.94	.065	.050	.065	.000	1782.00	9974.72
.014272	240.	250.	300.	1	15	0	.00	314.65	10289.37

FLOW DISTRIBUTION FOR SECNO= 4.11 CWSEL= 1788.38

STA=	9975.	9978.	10020.	10108.	10273.	10289.
PER Q=	.3	50.7	34.4	14.6	.1	
AREA=	4.5	240.1	298.5	230.0	3.1	
VEL=	3.1	11.3	6.2	3.4	.9	
DEPTH=	1.2	5.8	3.4	1.4	.2	

*SECNO 4.220

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.74

4.220	6.44	1791.94	1790.60	.00	1792.21	.27	2.09	.55	1790.00
5347.0	3776.3	1491.4	79.3	1111.8	261.6	51.7	1188.9	334.7	1790.00
.96	3.40	5.70	1.54	.065	.050	.065	.000	1785.50	9596.69
.004704	280.	280.	260.	3	14	0	.00	486.63	10083.31

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.22 CWSEL= 1791.94

STA=	9597.	9650.	9780.	9885.	9975.	10030.	10083.
PER Q=	1.5	23.0	30.2	15.9	27.9	1.5	
AREA=	51.7	382.0	413.6	264.5	261.6	51.7	
VEL=	1.5	3.2	3.9	3.2	5.7	1.5	
DEPTH=	1.0	2.9	3.9	2.9	4.8	1.0	

*SECNO 4.230

4.230	6.66	1792.66	1791.44	.00	1793.01	.35	.73	.08	1790.00
5347.0	3441.4	1699.0	206.6	916.3	260.0	90.4	1193.3	336.2	1790.00
.97	3.76	6.53	2.29	.065	.050	.065	.000	1786.00	9662.92
.005526	140.	150.	150.	3	10	0	.00	435.24	10098.16

FLOW DISTRIBUTION FOR SECNO= 4.23 CWSEL= 1792.66

STA=	9663.	9687.	9762.	9929.	9934.	9961.	9980.	10030.	10081.	10098.
PER Q=	.1	5.6	46.1	2.0	7.5	3.1	31.8	3.8	.1	
AREA=	7.9	125.4	610.5	22.1	99.8	50.5	260.0	84.9	5.6	
VEL=	.8	2.4	4.0	4.7	4.0	3.3	6.5	2.4	.8	
DEPTH=	.3	1.7	3.7	4.7	3.7	2.7	5.2	1.7	.3	

CEHV= .100 CEHV= .300
*SECNO 4.310

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4.310	8.08	1796.08	1796.08	.00	1797.26	1.18	3.23	.25	1792.00
5347.0	1723.7	2890.0	733.3	395.9	259.2	170.0	1203.2	339.9	1792.00
.98	4.35	11.15	4.31	.065	.050	.065	.000	1788.00	9768.02
.011813	410.	420.	410.	0	11	0	.00	349.55	10117.57

FLOW DISTRIBUTION FOR SECNO= 4.31 CWSEL= 1796.08

STA=	9768.	9896.	9981.	10020.	10055.	10111.	10118.
PER Q=	6.7	25.6	54.0	10.8	3.0	.0	
AREA=	136.2	259.7	259.2	109.3	60.4	.3	
VEL=	2.6	5.3	11.2	5.3	2.6	.3	
DEPTH=	1.1	3.1	6.6	3.1	1.1	.0	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.400

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

4.400	8.28	1800.58	1799.11	.00	1801.09	.50	3.76	.07	1796.00
5347.0	385.0	2045.8	2916.1	120.4	269.5	690.5	1213.9	343.6	1796.00
1.01	3.20	7.59	4.22	.065	.050	.065	.000	1792.30	9935.63
.005264	475.	510.	490.	3	12	0	.00	309.31	10244.94

FLOW DISTRIBUTION FOR SECNO= 4.40 CWSEL= 1800.58

STA=	9936.	9940.	9970.	9990.	10030.	10080.	10090.	10110.	10175.	10210.	10245.
PER Q=	.0	2.0	5.2	38.3	19.6	5.2	10.4	16.9	2.3	.1	
AREA=	1.3	47.5	71.6	269.5	229.1	54.3	108.6	232.9	55.4	10.2	
VEL=	.7	2.2	3.9	7.6	4.6	5.1	5.1	3.9	2.3	.7	
DEPTH=	.3	1.6	3.6	6.7	4.6	5.4	5.4	3.6	1.6	.3	

*SECNO 4.490

4.490	7.25	1803.25	1802.48	.00	1804.21	.96	2.98	.14	1800.00
5347.0	318.5	4530.2	498.3	91.5	537.0	168.2	1223.7	346.7	1800.00
1.02	3.48	8.44	2.96	.065	.050	.065	.000	1796.00	9907.49
.008492	490.	450.	450.	3	15	0	.00	282.12	10189.61

FLOW DISTRIBUTION FOR SECNO= 4.49 CWSEL= 1803.25

STA=	9907.	9917.	9955.	10054.	10105.	10190.
PER Q=	.2	5.8	84.7	7.8	1.5	
AREA=	5.8	85.7	537.0	115.5	52.7	
VEL=	1.5	3.6	8.4	3.6	1.5	
DEPTH=	.6	2.2	5.4	2.2	.6	

*SECNO 4.560

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*************************************************************************
   TOTAL FLOW IN APACHE WASH Q100= 5347 CFS.
   TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1866 CFS.
*************************************************************************
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

   4.560      7.08   1806.08   1804.18       .00   1806.59       .50      2.33       .05   1804.00
  5347.0      27.8    2866.9    2452.4      16.3     426.2     584.9    1231.3     349.0   1800.00
    1.04      1.70      6.73      4.19      .065      .050      .065      .000   1799.00   9943.76
 .005085      365.      365.      350.         2        19         0       .00    272.27  10216.03

FLOW DISTRIBUTION FOR SECNO=      4.56          CWSEL=   1806.08

STA=    9944.    9960.   10035.   10115.   10150.   10215.
  PER Q=       .5     53.6     36.6      7.0      2.3
   AREA=     16.2    426.2    406.6    107.9     70.4
    VEL=      1.7      6.7      4.8      3.4      1.7
  DEPTH=      1.0      5.7      5.1      3.1      1.1

CCHV=     .300 CEHV=     .500
*SECNO 4.570
3280 CROSS SECTION      4.57 EXTENDED      2.03 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      ************************************************************************
         DOWN STREAM OF 3-10'X5'X54' CBC's WITH WINGWALLS AT CAREFREE
         HIGHWAY. TOTAL FLOW IN APACHE WASH Q100= 5463 CFS. TOTAL FLOW
         IN OVERFLOW CHANNEL Q100= 1750 CFS.
      ************************************************************************
   4.570      8.03   1808.03   1808.03       .00   1808.46       .43       .61       .02   1806.00
  5463.0     557.1    1932.0    2974.0     256.8     242.9     992.9    1234.3     350.2   1806.00
    1.05      2.17      7.95      3.00      .065      .050      .065      .000   1800.00   9756.64
 .006712      110.      110.      100.         0        20         0       .00    743.36  10500.00

FLOW DISTRIBUTION FOR SECNO=      4.57          CWSEL=   1808.03

STA=    9757.    9950.    9980.   10011.   10220.   10500.
  PER Q=      6.8      3.3     35.4     23.3     31.1
   AREA=    195.8     60.9    242.9    424.4    568.5
    VEL=      1.9      3.0      8.0      3.0      3.0
  DEPTH=      1.0      2.0      7.8      2.0      2.0
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL CULVERT

SC	CUNO	CUNV	ENTLC	COFQ	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
	3	.012	.50	3.10	.00	5.00	10.00	70.00	8	1	1801.30	1800.90

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

5130, EGIC= 1861.69..MAY BE TOO LARGE IF INLET CONTROLS.
5135, EGOC= 1845.51 ..MAY BE TOO LARGE IF OUTLET CONTROLS.
*SECNO 4.580
3840 SECTION NOT HIGH ENOUGH 1861.693 1858.000 1802.000 1860.000 1806.026 6

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.26

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
1861.69	1845.51	.65	4215.	1486.	3.901	150.0	1807.00	769.

****
UP STREAM OF 3-10'X5'X54' CBC'S AT CAREFREE HIGHWAY. FLOW SPLITS
TO THE WEST. TOTAL FLOW IN APACHE WASH Q100= 5739 CFS.
TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1474 CFS.
****

4.580	7.02	1809.02	.00	.00	1809.11	.10	.65	.00	1804.00
5739.0	787.9	759.1	4192.1	493.1	194.6	1844.7	1237.5	351.4	1804.00
1.06	1.60	3.90	2.27	.065	.050	.065	.000	1802.00	9736.46
.001455	70.	70.	70.	2	0	0	.00	763.54	10500.00

FLOW DISTRIBUTION FOR SECNO= 4.58 CWSEL= 1809.02

STA=	9736.	9790.	9945.	9983.	10011.	10250.	10320.	10500.
PER Q=	.3	7.6	5.9	13.2	53.4	10.8	8.8	
AREA=	27.3	313.1	152.8	194.6	1199.8	281.4	363.6	
VEL=	.6	1.4	2.2	3.9	2.6	2.2	1.4	
DEPTH=	.5	2.0	4.0	6.9	5.0	4.0	2.0	

CCHV= .100 CEHV= .300
*SECNO 4.600
3280 CROSS SECTION 4.60 EXTENDED 1.14 FEET

****
FLOW SPLITS TO WEST. TOTAL FLOW IN APACHE WASH Q100= 5873 CFS.

```
        TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1340 CFS.
      ************************************************************************
    4.600      7.14   1809.14   1806.89      .00   1809.26      .12      .14      .01   1806.00
   5873.0     339.4    1056.5    4477.1    214.3     259.9   1811.6   1242.1    352.7   1806.00
     1.07      1.58      4.06      2.47     .065      .050     .065     .000   1802.00   9853.34
  .001849       83.       83.       83.        2        18        0      .00    646.85  10500.19


FLOW DISTRIBUTION FOR SECNO=      4.60          CWSEL=   1809.14

STA=    9853.    9967.    9971.   10016.   10112.   10134.   10156.   10275.   10323.   10440.   10500.
  PER Q=      5.3       .5      18.0      10.8       3.6       5.6      30.4       9.0      13.2       3.5
   AREA=    200.2     14.2     259.9     301.4      85.0     113.1     610.8     204.4     368.6     128.2
    VEL=      1.5      2.1       4.1       2.1       2.5       2.9       2.9       2.6       2.1       1.6
  DEPTH=      1.8      3.1       5.8       3.1       3.9       5.1       5.1       4.3       3.1       2.1

*SECNO 4.650
3280 CROSS SECTION      4.65 EXTENDED       .17 FEET


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      ************************************************************************
        FLOW SPLITS TO WEST. TOTAL FLOW IN APACHE WASH Q100= 6053 CFS.
        TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1160 CFS.
      ************************************************************************
    4.650      4.17   1810.17   1810.17      .00   1811.02      .85     1.40      .22   1808.00
   6053.0     794.4    2841.4    2417.2    178.2     325.1    378.1   1251.7    356.3   1808.00
     1.08      4.46      8.74      6.39     .080      .075     .080     .000   1806.00   9821.76
  .047042      260.      280.      260.        0        14        0      .00    538.24  10360.00


FLOW DISTRIBUTION FOR SECNO=      4.65          CWSEL=   1810.17

STA=    9822.    9982.   10094.   10225.   10251.   10270.   10360.
  PER Q=     13.1     46.9     31.7      6.2      1.6       .3
   AREA=    178.2    325.1    284.6     55.8     22.4     15.3
    VEL=      4.5      8.7      6.8      6.8      4.5      1.2
  DEPTH=      1.1      2.9      2.2      2.2      1.2       .2

*SECNO 4.740
3280 CROSS SECTION      4.74 EXTENDED      1.55 FEET
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.33

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*********************************************************************
   FLOW SPLITS TO WEST. TOTAL FLOW IN APACHE WASH Q100= 6928 CFS.
   TOTAL FLOW IN OVERFLOW CHANNEL Q100= 285 CFS.
*********************************************************************
```

4.740	6.55	1816.55	1815.40	.00	1816.77	.22	5.69	.06	1816.00
6928.0	25.3	1371.2	5531.5	35.1	258.4	1696.6	1267.9	364.0	1814.00
1.11	.72	5.31	3.26	.065	.050	.065	.000	1810.00	9833.26
.005554	400.	500.	500.	8	14	0	.00	866.74	10700.00

FLOW DISTRIBUTION FOR SECNO= 4.74 CWSEL= 1816.55

STA=	9833.	9960.	10029.	10137.	10160.	10380.	10400.	10425.	10485.	10530.	10590.	10700.
PER Q=	.4	19.8	12.6	3.7	25.8	5.0	6.3	8.9	7.1	4.9	5.6	
AREA=	35.1	258.4	274.4	71.6	561.5	81.0	101.3	175.6	137.3	123.1	170.7	
VEL=	.7	5.3	3.2	3.6	3.2	4.3	4.3	3.5	3.6	2.8	2.3	
DEPTH=	.3	3.8	2.6	3.1	2.6	4.1	4.1	2.9	3.1	2.1	1.6	

*SECNO 4.780

```
*********************************************************************
   BEGINING OF FLOW SPLIT TO WEST. TOTAL FLOW IN APACHE WASH
   Q100=7213 CFS. TOTAL FLOW IN OVERFLOW CHANNEL Q100= 0 CFS.
*********************************************************************
```

4.780	4.31	1817.31	1816.35	.00	1817.65	.34	.84	.04	1818.00
7213.0	.0	714.7	6498.3	.0	130.7	1422.5	1272.5	366.2	1816.00
1.12	.00	5.47	4.57	.000	.050	.065	.000	1813.00	9971.25
.009848	300.	200.	100.	4	11	0	.00	634.27	10605.52

FLOW DISTRIBUTION FOR SECNO= 4.78 CWSEL= 1817.31

STA=	9971.	10021.	10106.	10182.	10190.	10212.	10231.	10317.	10376.	10489.	10509.	10540.	10606.
PER Q=	9.9	4.2	9.7	1.9	2.7	.9	11.0	17.2	33.0	4.6	4.0	1.0	
AREA=	130.7	111.0	175.9	27.1	49.1	25.1	199.3	224.4	429.5	65.2	72.8	42.9	
VEL=	5.5	2.7	4.0	5.0	4.0	2.7	4.0	5.5	5.5	5.0	4.0	1.7	
DEPTH=	2.6	1.3	2.3	3.3	2.3	1.3	2.3	3.8	3.8	3.3	2.3	.7	

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 4.820
    4.820      5.22   1822.32   1821.49       .00   1822.73       .42      5.06       .02   1820.00
   7213.0    1756.7     975.8    4480.5     363.1     129.2     966.2    1289.1     373.2   1820.00
     1.15      4.84      7.55      4.64      .065      .050      .065      .000   1817.10   9816.47
  .011321      480.      480.      480.         4         8         0       .00    639.30  10455.77


FLOW DISTRIBUTION FOR SECNO=      4.82          CWSEL=   1822.32

STA=    9816.    9888.    9904.    9930.    9975.   10009.   10100.   10126.   10181.   10200.   10208.   10265.   10280.
  PER Q=      5.6      6.0      6.6      6.1     13.5     10.1      6.5      7.6      6.7      3.6      8.8      3.8
   AREA=    104.0     67.1     88.4    103.6    129.2    167.6     86.8    128.2     76.3     37.8    141.3     50.3
    VEL=      3.9      6.5      5.4      4.3      7.6      4.3      5.4      4.3      6.3      6.9      4.5      5.4
  DEPTH=      1.4      4.3      3.3      2.3      3.8      1.9      3.3      2.3      4.1      4.8      2.5      3.3

STA=   10280.   10315.   10435.   10456.
  PER Q=      8.7      6.4       .0
   AREA=    116.2    158.3      3.3
    VEL=      5.4      2.9       .7
  DEPTH=      3.3      1.3       .2

CCHV=     .300 CEHV=     .500
*SECNO 4.900
      ***********************************************************************
         UP STREAM OF 2-66"X124' HERC'S WITH HEADWALLS AT 12TH STREET.
         SKEWED 32 DEG. TO THE RIGHT. NON EFFECTIVE AT Q100=7213 CFS.
      ***********************************************************************
    4.900      4.49   1824.49   1824.11       .00   1825.04       .55      2.24       .07   1824.00
   7213.0    1532.1    1009.7    4671.3     247.1     171.2     789.0    1294.5     375.8   1824.00
     1.15      6.20      5.90      5.92      .050      .050      .050      .000   1820.00   9801.71
  .013883      220.      200.      160.         2        19         0       .00    641.28  10442.99


FLOW DISTRIBUTION FOR SECNO=      4.90          CWSEL=   1824.49

STA=    9802.    9870.    9885.    9905.    9940.   10018.   10155.   10290.   10310.   10330.   10405.   10443.
  PER Q=      4.4      5.8      7.8      3.3     14.0     12.0     30.0      7.8      7.8      7.1       .2
   AREA=     72.8     52.4     69.8     52.2    171.2    192.2    336.2     69.8     69.8    111.8      9.3
    VEL=      4.3      8.0      8.0      4.6      5.9      4.5      6.4      8.0      8.0      4.6      1.4
  DEPTH=      1.1      3.5      3.5      1.5      2.2      1.4      2.5      3.5      3.5      1.5       .2
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300

*SECNO 4.960

4.960	5.78	1827.78	1827.03	.00	1828.05	.27	2.98	.03	1826.00
7213.0	1186.4	841.9	5184.8	375.7	140.9	1281.2	1303.3	380.5	1826.00
1.17	3.16	5.97	4.05	.065	.060	.065	.000	1822.00	9726.13
.010111	400.	320.	200.	3	11	0	.00	927.56	10653.69

FLOW DISTRIBUTION FOR SECNO= 4.96 CWSEL= 1827.78

STA=	9726.	9840.	9974.	10011.	10059.	10136.	10310.	10345.	10425.	10593.	10654.
PER Q=	5.3	11.2	11.7	4.0	6.5	28.6	10.2	14.1	8.1	.4	
AREA=	137.1	238.6	140.9	84.9	138.5	462.8	132.3	223.0	215.0	24.7	
VEL=	2.8	3.4	6.0	3.4	3.4	4.5	5.6	4.5	2.7	1.3	
DEPTH=	1.2	1.8	3.8	1.8	1.8	2.7	3.8	2.8	1.3	.4	

*SECNO 5.030

5.030	5.43	1831.43	1830.85	.00	1831.73	.30	3.67	.01	1830.00
7213.0	1532.0	956.4	4724.6	505.7	147.9	1099.4	1317.3	387.9	1830.00
1.19	3.03	6.47	4.30	.065	.060	.065	.000	1826.00	9604.79
.011269	345.	365.	340.	3	9	0	.00	964.40	10569.19

DISTRIBUTION FOR SECNO= 5.03 CWSEL= 1831.43

STA=	9605.	9641.	9975.	10012.	10053.	10133.	10141.	10188.	10282.	10440.	10569.
PER Q=	.7	20.5	13.3	2.5	4.9	.4	7.1	24.5	23.5	2.5	
AREA=	25.9	479.8	147.9	58.5	115.2	10.3	116.5	320.2	385.8	92.7	
VEL=	1.9	3.1	6.5	3.1	3.1	3.1	4.4	5.5	4.4	1.9	
DEPTH=	.7	1.4	4.0	1.4	1.4	1.4	2.4	3.4	2.4	.7	

*SECNO 5.090

5.090	4.36	1834.36	1833.54	.00	1834.61	.26	2.88	.00	1832.00
7213.0	4016.3	1049.4	2147.3	1039.5	179.6	657.2	1330.0	394.8	1832.00
1.21	3.86	5.84	3.27	.060	.050	.065	.000	1830.00	9502.52
.008013	300.	300.	310.	3	18	0	.00	993.99	10496.51

FLOW DISTRIBUTION FOR SECNO= 5.09 CWSEL= 1834.36

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9503.	9515.	9550.	9970.	10025.	10075.	10120.	10145.	10255.	10320.	10435.	10497.
PER Q=	.0	1.8	53.9	14.5	2.4	5.3	5.3	13.0	3.1	.6	.1	
AREA=	2.2	47.5	989.8	179.6	67.8	106.0	83.9	259.2	88.2	41.0	11.0	
VEL=	.7	2.7	3.9	5.8	2.5	3.6	4.6	3.6	2.5	1.0	.6	
DEPTH=	.2	1.4	2.4	3.3	1.4	2.4	3.4	2.4	1.4	.4	.2	

*SECNO 5.150

5.150	7.47	1837.47	1837.12	.00	1838.10	.63	3.38	.11	1836.00
7213.0	38.9	2239.1	4935.0	17.9	240.2	1104.3	1343.1	401.1	1834.00
1.23	2.18	9.32	4.47	.060	.050	.065	.000	1830.00	9953.70
.011632	350.	352.	355.	2	18	0	.00	561.18	10514.88

FLOW DISTRIBUTION FOR SECNO= 5.15 CWSEL= 1837.47

STA=	9954.	9978.	10025.	10130.	10170.	10200.	10320.	10495.	10515.
PER Q=	.5	31.0	28.6	6.2	2.0	12.7	18.6	.4	
AREA=	17.9	240.2	364.6	98.9	44.2	236.7	345.2	14.6	
VEL=	2.2	9.3	5.7	4.5	3.2	3.9	3.9	2.0	
DEPTH=	.7	5.1	3.5	2.5	1.5	2.0	2.0	.7	

*SECNO 5.210

5.210	6.74	1840.74	1840.21	.00	1841.19	.45	3.07	.02	1838.00
7213.0	2173.7	2209.5	2829.8	514.3	284.6	774.6	1353.5	405.5	1838.00
1.25	4.23	7.76	3.65	.065	.050	.065	.000	1834.00	9744.71
.008665	330.	310.	300.	2	10	0	.00	701.72	10446.43

FLOW DISTRIBUTION FOR SECNO= 5.21 CWSEL= 1840.74

STA=	9745.	9860.	9885.	9915.	9970.	10030.	10085.	10110.	10135.	10245.	10310.	10355.	10446.
PER Q=	6.2	6.6	8.6	8.7	30.6	8.7	5.2	3.2	7.3	10.3	3.3	1.1	
AREA=	152.5	93.6	117.3	150.9	284.6	150.9	81.1	58.6	176.7	178.3	78.4	50.7	
VEL=	2.9	5.1	5.3	4.2	7.8	4.2	4.7	3.9	3.0	4.2	3.1	1.5	
DEPTH=	1.3	3.7	3.9	2.7	4.7	2.7	3.2	2.3	1.6	2.7	1.7	.6	

*SECNO 5.310

5.310	7.53	1845.53	1845.18	.00	1845.96	.43	4.76	.00	1844.00
7213.0	1734.7	4310.8	1167.4	574.0	679.3	445.3	1372.0	415.2	1844.00
1.28	3.02	6.35	2.62	.065	.060	.065	.000	1838.00	9470.57
.010774	500.	500.	480.	3	9	0	.00	1013.77	10484.34

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 5.31 CWSEL= 1845.53

STA=	9471.	9557.	9574.	9596.	9692.	9888.	10061.	10218.	10484.
PER Q=	1.8	1.1	1.5	6.5	13.1	59.8	10.5	5.6	
AREA=	66.5	26.0	33.7	147.8	300.0	679.3	241.0	204.4	
VEL=	2.0	3.2	3.2	3.2	3.2	6.3	3.2	2.0	
DEPTH=	.8	1.5	1.5	1.5	1.5	3.9	1.5	.8	

*SECNO 5.380

3265 DIVIDED FLOW

5.380	7.85	1848.85	1848.26	.00	1849.30	.44	3.33	.01	1844.00
7213.0	3542.0	1649.9	2021.1	869.9	190.6	592.6	1386.6	423.1	1844.00
1.30	4.07	8.65	3.41	.065	.050	.065	.000	1841.00	9358.80
.007394	350.	375.	425.	3	10	0	.00	794.37	10342.61

FLOW DISTRIBUTION FOR SECNO= 5.38 CWSEL= 1848.85

STA=	9359.	9500.	9635.	9910.	9985.	10015.	10030.	10110.	10255.	10343.
PER Q=	5.1	11.1	4.4	28.5	22.9	3.9	12.5	11.1	.6	
AREA=	146.0	260.4	99.4	364.1	190.6	57.8	228.4	268.9	37.4	
VEL=	2.5	3.1	3.2	5.6	8.7	4.8	4.0	3.0	1.1	
DEPTH=	1.0	1.9	.4	4.9	6.4	3.9	2.9	1.9	.4	

*SECNO 5.480
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

5.480	7.30	1853.30	1853.30	.00	1854.12	.82	4.61	.11	1850.00
7213.0	1628.7	3493.1	2091.2	394.2	358.8	639.5	1404.5	432.2	1850.00
1.32	4.13	9.74	3.27	.065	.050	.065	.000	1846.00	9763.96
.011276	530.	500.	500.	0	10	0	.00	738.76	10502.72

FLOW DISTRIBUTION FOR SECNO= 5.48 CWSEL= 1853.30

STA=	9764.	9895.	9930.	9954.	9978.	10044.	10141.	10201.	10259.	10419.	10503.
PER Q=	5.9	4.7	6.0	5.9	48.4	13.1	3.1	3.0	8.3	1.4	
AREA=	153.7	80.3	81.0	79.2	358.8	223.4	78.4	75.8	207.3	54.7	
VEL=	2.8	4.2	5.4	5.4	9.7	4.2	2.9	2.9	2.9	1.8	
DEPTH=	1.2	2.3	3.3	3.3	5.5	2.3	1.3	1.3	1.3	.7	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 5.570

3265 DIVIDED FLOW

5.570	7.88	1857.88	1857.32	.00	1858.64	.75	4.51	.01	1854.00
7213.0	3891.7	3062.4	258.9	826.1	331.2	119.6	1417.6	438.5	1856.00
1.34	4.71	9.25	2.16	.065	.050	.065	.000	1850.00	9530.59
.009723	400.	450.	450.	2	5	0	.00	559.94	10162.06

FLOW DISTRIBUTION FOR SECNO= 5.57 CWSEL= 1857.88

STA=	9531.	9700.	9729.	9812.	9824.	9977.	10035.	10162.
PER Q=	4.8	.8	.3	2.2	45.9	42.5	3.6	
AREA=	159.4	27.5	10.6	34.6	594.0	331.2	119.6	
VEL=	2.2	2.2	2.1	4.5	5.6	9.2	2.2	
DEPTH=	.9	.9	.1	2.9	3.9	5.7	.9	

*SECNO 5.640

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.74

5.640	5.16	1860.16	1858.56	.00	1860.49	.33	1.81	.04	1856.00
7213.0	907.8	5229.3	1075.9	380.3	1002.6	438.0	1430.0	443.3	1856.00
1.36	2.39	5.22	2.46	.065	.045	.065	.000	1855.00	9764.78
.003201	370.	345.	320.	3	14	0	.00	613.95	10378.73

FLOW DISTRIBUTION FOR SECNO= 5.64 CWSEL= 1860.16

STA=	9765.	9870.	9955.	10170.	10275.	10365.	10379.
PER Q=	2.2	10.4	72.5	12.8	2.1	.0	
AREA=	111.4	268.9	1002.6	332.2	104.7	1.1	
VEL=	1.4	2.8	5.2	2.8	1.4	.2	
DEPTH=	1.1	3.2	4.7	3.2	1.2	.1	

*SECNO 5.660

3301 HV CHANGED MORE THAN HVINS

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .44

5.660	8.29	1862.29	1862.26	.00	1863.31	1.02	2.61	.21	1860.00
7213.0	2488.1	2829.5	1895.4	488.8	253.5	342.1	1443.8	448.9	1859.00
1.37	5.09	11.16	5.54	.065	.050	.065	.000	1854.00	9605.93
.016886	460.	440.	320.	3	17	0	.00	586.75	10192.68

FLOW DISTRIBUTION FOR SECNO= 5.66 CWSEL= 1862.29

STA=	9606.	9839.	9858.	9912.	9980.	10030.	10136.	10193.
PER Q=	8.8	5.7	8.8	11.2	39.2	24.2	2.1	
AREA=	146.2	62.9	123.1	156.6	253.5	296.4	45.7	
VEL=	4.3	6.6	5.2	5.2	11.2	5.9	3.3	
DEPTH=	.6	3.3	2.3	2.3	5.1	2.8	.8	

*SECNO 5.760

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.52

5.760	6.27	1868.27	1867.59	.00	1868.86	.59	5.51	.04	1864.00
7213.0	3002.3	3378.3	832.4	777.9	420.8	211.0	1458.5	454.9	1864.00
1.40	3.86	8.03	3.95	.065	.050	.065	.000	1862.00	9670.21
.007277	470.	540.	570.	4	18	0	.00	456.99	10127.20

FLOW DISTRIBUTION FOR SECNO= 5.76 CWSEL= 1868.27

STA=	9670.	9705.	9711.	9712.	9742.	9835.	9865.	9969.	10043.	10097.	10125.	10127.
PER Q=	1.2	1.2	.4	5.7	9.8	3.2	20.1	46.8	10.4	1.1	.0	
AREA=	38.8	20.3	5.2	96.3	210.9	68.0	338.3	420.8	175.0	35.7	.3	
VEL=	2.3	4.2	5.1	4.3	3.4	3.4	4.3	8.0	4.3	2.3	.5	
DEPTH=	1.1	3.3	4.3	3.3	2.3	2.3	3.3	5.6	3.3	1.3	.1	

*SECNO 5.830

3265 DIVIDED FLOW

5.830	6.12	1871.62	1871.43	.00	1872.45	.82	3.52	.07	1868.00
7213.0	2119.4	3248.9	1844.7	556.3	342.4	324.3	1469.9	459.1	1868.00
1.41	3.81	9.49	5.69	.065	.050	.065	.000	1865.50	9554.70
.012317	375.	380.	380.	3	10	0	.00	510.24	10136.24

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 5.83 CWSEL= 1871.62

STA=	9555.	9575.	9615.	9643.	9735.	9890.	9960.	10030.	10105.	10120.	10136.
PER Q=	.5	3.2	.7	.5	12.2	12.3	45.0	22.6	2.6	.4	
AREA=	16.5	64.9	23.1	16.5	251.7	183.7	342.4	271.8	39.4	13.2	
VEL=	2.2	3.5	2.2	2.2	3.5	4.8	9.5	6.0	4.8	2.2	
DEPTH=	.8	1.6	.8	.2	1.6	2.6	4.9	3.6	2.6	.8	

*SECNO 5.920

5.920	6.34	1876.34	1875.63	.00	1876.90	.56	4.43	.03	1874.00
7213.0	367.0	2236.5	4609.5	133.2	295.3	867.4	1480.9	463.6	1876.00
1.43	2.75	7.57	5.31	.065	.050	.065	.000	1870.00	9809.32
.010781	375.	400.	375.	3	10	0	.00	528.79	10338.11

FLOW DISTRIBUTION FOR SECNO= 5.92 CWSEL= 1876.34

STA=	9809.	9948.	10024.	10094.	10131.	10149.	10178.	10238.	10318.	10338.
PER Q=	5.1	31.0	3.2	9.0	9.8	15.4	14.8	10.8	.9	
AREA=	133.2	295.3	82.6	122.3	98.0	152.1	201.9	186.7	23.8	
VEL=	2.8	7.6	2.8	5.3	7.2	7.3	5.3	4.2	2.8	
DEPTH=	1.0	3.9	1.2	3.3	5.3	5.4	3.3	2.3	1.2	

*SECNO 6.010

6.010	6.23	1881.73	1881.41	.00	1882.60	.87	5.61	.09	1878.00
7213.0	541.6	3349.7	3321.7	132.6	344.7	674.0	1495.0	469.0	1878.00
1.45	4.08	9.72	4.93	.065	.050	.065	.000	1875.50	9876.86
.011635	485.	490.	510.	3	10	0	.00	400.39	10277.25

FLOW DISTRIBUTION FOR SECNO= 6.01 CWSEL= 1881.73

STA=	9877.	9920.	9955.	10020.	10035.	10075.	10160.	10175.	10190.	10260.	10277.
PER Q=	1.2	6.4	46.4	2.7	3.4	15.5	5.7	5.7	12.7	.5	
AREA=	37.2	95.4	344.7	40.9	69.0	231.7	63.4	63.4	190.8	14.9	
VEL=	2.2	4.8	9.7	4.8	3.5	4.8	6.4	6.4	4.8	2.2	
DEPTH=	.9	2.7	5.3	2.7	1.7	2.7	4.2	4.2	2.7	.9	

*SECNO 6.090

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

****
Q100=7,187 CFS
****

6.090	6.01	1885.51	1884.50	.00	1885.99	.48	3.35	.04	1882.00
7187.0	406.3	4630.1	2150.6	155.9	709.0	710.6	1508.8	473.8	1882.00
1.48	2.61	6.53	3.03	.065	.050	.065	.000	1879.50	9833.32
.005296	470.	445.	435.	3	15	0	.00	538.13	10371.45

FLOW DISTRIBUTION FOR SECNO= 6.09 CWSEL= 1885.51

STA=	9833.	9890.	9935.	10070.	10345.	10371.
PER Q=	.8	4.8	64.4	29.5	.4	
AREA=	42.8	113.0	709.0	690.7	20.0	
VEL=	1.4	3.1	6.5	3.1	1.4	
DEPTH=	.8	2.5	5.3	2.5	.8	

*SECNO 6.160

HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

6.160	6.31	1889.31	1889.31	.00	1890.51	1.20	3.94	.22	1892.00
7187.0	.0	3388.4	3798.6	.0	308.6	612.9	1520.4	478.0	1886.00
1.49	.00	10.98	6.20	.000	.060	.065	.000	1883.00	9974.02
.025471	270.	360.	450.	0	8	0	.00	362.46	10336.48

FLOW DISTRIBUTION FOR SECNO= 6.16 CWSEL= 1889.31

STA=	9974.	10040.	10051.	10111.	10209.	10225.	10319.	10336.
PER Q=	47.1	2.2	4.8	20.1	6.0	19.2	.4	
AREA=	308.6	25.4	78.6	227.1	53.5	216.8	11.5	
VEL=	11.0	6.3	4.4	6.4	8.1	6.4	2.7	
DEPTH=	4.7	2.3	1.3	2.3	3.3	2.3	.7	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 6.250

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.02

6.250	7.03	1895.03	1894.18	.00	1895.53	.50	4.95	.07	1892.00
7187.0	89.5	3462.0	3635.5	33.7	469.5	1056.5	1532.9	482.5	1892.00
1.51	2.66	7.37	3.44	.065	.050	.065	.000	1888.00	9939.21
.006218	490.	460.	430.	5	5	0	.00	526.31	10465.52

FLOW DISTRIBUTION FOR SECNO= 6.25 CWSEL= 1895.03

STA=	9939.	9947.	9962.	10045.	10069.	10268.	10454.	10466.
PER Q=	.1	1.2	48.2	3.8	31.5	15.1	.1	
AREA=	4.1	29.6	469.5	72.7	601.2	376.9	5.8	
VEL=	1.1	2.9	7.4	3.8	3.8	2.9	1.2	
DEPTH=	.5	2.0	5.6	3.0	3.0	2.0	.5	

*SECNO 6.320

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

6.320	8.46	1898.46	1898.46	.00	1899.71	1.24	3.61	.22	1900.00
7187.0	.0	4270.1	2916.9	.0	395.9	560.9	1543.4	486.3	1894.00
1.52	.00	10.79	5.20	.000	.060	.065	.000	1890.00	9956.34
.017284	410.	390.	350.	0	11	0	.00	405.89	10362.23

FLOW DISTRIBUTION FOR SECNO= 6.32 CWSEL= 1898.46

STA=	9956.	10020.	10100.	10267.	10293.	10347.	10362.
PER Q=	59.4	26.5	13.1	.3	.6	.1	
AREA=	395.9	277.0	243.2	12.4	24.9	3.5	
VEL=	10.8	6.9	3.9	1.8	1.8	1.1	
DEPTH=	6.2	3.5	1.5	.5	.5	.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 6.430

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.70

6.430	6.92	1903.42	1902.37	.00	1903.94	.52	4.16	.07	1898.00
7187.0	4264.9	2581.2	340.9	1033.5	323.4	108.5	1555.6	490.2	1898.00
1.55	4.13	7.98	3.14	.065	.050	.065	.000	1896.50	9669.37
.006013	475.	450.	360.	3	18	0	.00	427.32	10096.69

FLOW DISTRIBUTION FOR SECNO= 6.43 CWSEL= 1903.42

STA=	9669.	9680.	9690.	9925.	9970.	10020.	10030.	10040.	10097.
PER Q=	.1	1.1	44.9	13.2	35.9	2.9	1.1	.8	
AREA=	7.5	24.2	803.1	198.8	323.4	44.2	24.2	40.2	
VEL=	1.4	3.2	4.0	4.8	8.0	4.7	3.2	1.4	
DEPTH=	.7	2.4	3.4	4.4	6.5	4.4	2.4	.7	

*SECNO 6.500

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

6.500	7.05	1906.05	1906.05	.00	1907.24	1.19	2.85	.20	1900.00
7187.0	2990.4	2718.5	1478.1	604.2	219.5	232.9	1564.9	493.2	1900.00
1.56	4.95	12.38	6.35	.065	.050	.065	.000	1899.00	9718.34
.013572	310.	345.	355.	0	5	0	.00	382.25	10100.59

FLOW DISTRIBUTION FOR SECNO= 6.50 CWSEL= 1906.05

STA=	9718.	9747.	9794.	9947.	9967.	9987.	10020.	10043.	10072.	10099.
PER Q=	1.1	5.8	18.8	4.7	11.1	37.8	12.6	6.9	1.1	
AREA=	29.8	97.4	314.5	60.7	101.8	219.5	115.6	88.1	29.1	
VEL=	2.8	4.3	4.3	5.6	7.8	12.4	7.8	5.6	2.8	
DEPTH=	1.0	2.1	2.1	3.1	5.1	6.8	5.1	3.1	1.1	

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 6.580
    6.580      8.89   1910.89   1910.42       .00   1911.94      1.05      4.68       .01   1908.00
   7187.0     157.3    4649.6    2380.2      51.2     476.6     567.0    1575.5     496.9   1906.00
     1.57      3.07      9.76      4.20      .065      .050      .065      .000   1902.00   9913.22
  .008921      430.      430.      430.         2        11         0       .00    351.10  10264.32


FLOW DISTRIBUTION FOR SECNO=      6.58          CWSEL=   1910.89

STA=    9913.    9926.    9950.   10023.   10088.   10250.   10264.
  PER Q=      .1      2.1     64.7     18.9     14.1       .1
   AREA=     5.8     45.5    476.6    254.7    305.7      6.6
    VEL=     1.3      3.3      9.8      5.3      3.3      1.3
  DEPTH=      .4      1.9      6.6      3.9      1.9       .4

*SECNO 6.630
    6.630     9.12   1914.12   1914.12       .00   1915.55      1.43      3.50       .11   1916.00
   7187.0       .0    3745.2    3441.8        .0     314.6     559.5    1582.1     499.0   1908.00
     1.58      .00     11.90      6.15      .000      .060      .065      .000   1905.00   9981.81
  .017227     300.      290.      290.         2         8         0       .00    294.60  10276.41


 DISTRIBUTION FOR SECNO=      6.63          CWSEL=   1914.12

STA=    9982.   10022.   10050.   10132.   10274.   10276.
  PER Q=     52.1     18.0     22.7      7.2       .0
   AREA=    314.6    145.1    254.9    159.3       .2
    VEL=     11.9      8.9      6.4      3.2       .5
  DEPTH=      7.9      5.1      3.1      1.1       .1

CCHV=     .300 CEHV=     .500
*SECNO 6.710

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.42

    6.710    11.50   1919.00   1918.21       .00   1920.04      1.04      4.38       .12   1920.00
   7187.0       .0    4668.5    2518.5        .0     482.5     586.3    1590.3     501.4   1912.00
     1.59      .00      9.68      4.30      .000      .055      .070      .000   1907.50   9965.00
  .008495     425.      390.      350.         2        11         0       .00    292.50  10257.50
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 6.71 CWSEL= 1919.00

STA=	9965.	10025.	10045.	10090.	10225.	10258.
PER Q=	65.0	10.8	12.3	11.7	.3	
AREA=	482.5	120.0	180.0	270.0	16.3	
VEL=	9.7	6.4	4.9	3.1	1.2	
DEPTH=	8.0	6.0	4.0	2.0	.5	

*SECNO 6.800

6.800	9.29	1923.29	1922.18	.00	1923.83	.55	3.64	.15	1918.00
7187.0	4314.9	2864.7	7.3	1054.7	361.0	5.6	1603.8	504.9	1922.00
1.62	4.09	7.94	1.30	.070	.055	.070	.000	1914.00	9668.00
.006815	500.	495.	400.	3	14	0	.00	369.20	10037.20

FLOW DISTRIBUTION FOR SECNO= 6.80 CWSEL= 1923.29

STA=	9668.	9705.	9725.	9755.	9800.	9881.	9901.	9977.	10028.	10037.
PER Q=	2.1	4.5	6.7	8.0	14.3	3.6	20.9	39.9	.1	
AREA=	60.8	75.8	113.7	148.0	265.5	66.7	324.2	361.0	5.6	
VEL=	2.4	4.3	4.3	3.9	3.9	3.9	4.6	7.9	1.3	
DEPTH=	1.6	3.8	3.8	3.3	3.3	3.3	4.3	7.0	.6	

V= .300 CEHV= .500
*SECNO 6.900

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

6.900	8.18	1928.18	1927.93	.00	1929.20	1.02	5.13	.24	1922.00
7187.0	4514.7	2672.3	.0	878.1	232.9	.0	1618.4	509.4	1930.00
1.64	5.14	11.48	.00	.080	.055	.000	.000	1920.00	9609.44
.016703	490.	529.	560.	2	9	0	.00	414.56	10024.00

FLOW DISTRIBUTION FOR SECNO= 6.90 CWSEL= 1928.18

STA=	9609.	9625.	9640.	9705.	9770.	9800.	9822.	9857.	9954.	9987.	10027.
PER Q=	.6	3.4	14.9	2.9	.1	.0	1.5	22.2	17.2	37.2	
AREA=	16.9	47.7	206.6	76.6	5.3	4.0	41.1	307.7	172.2	232.9	
VEL=	2.5	5.2	5.2	2.7	.8	.8	2.7	5.2	7.2	11.5	
DEPTH=	1.1	3.2	3.2	1.2	.2	.2	1.2	3.2	5.2	6.4	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 6.980

6.980	9.26	1933.26	1932.63	.00	1934.23	.97	5.02	.01	1928.00
7187.0	2098.9	4210.1	878.1	606.4	427.7	206.3	1629.6	513.1	1928.00
1.65	3.46	9.84	4.26	.080	.055	.080	.000	1924.00	9729.74
.008904	400.	437.	470.	2	8	0	.00	365.38	10095.12

FLOW DISTRIBUTION FOR SECNO= 6.98 CWSEL= 1933.26

STA=	9730.	9740.	9780.	9795.	9810.	9900.	9935.	9944.	9976.	10032.	10071.	10085.	10095.
PER Q=	.1	3.8	3.0	3.0	8.6	1.3	.9	8.7	58.6	10.8	1.3	.1	
AREA=	6.5	90.5	52.7	52.7	203.6	44.2	20.7	135.5	427.7	168.3	31.7	6.3	
VEL=	1.3	3.0	4.0	4.0	3.0	2.0	3.0	4.6	9.8	4.6	3.0	1.3	
DEPTH=	.6	2.3	3.5	3.5	2.3	1.3	2.3	4.3	7.7	4.3	2.3	.6	

CCHV= .300 CEHV= .500
*SECNO 7.080

3301 HV CHANGED MORE THAN HVINS

7.080	8.93	1937.93	1936.93	.00	1939.80	1.88	5.12	.45	1932.00
7187.0	351.8	6272.7	562.5	81.3	538.6	130.6	1640.9	515.9	1932.00
1.67	4.33	11.65	4.31	.090	.055	.090	.000	1929.00	9926.04
.012031	485.	500.	500.	3	15	0	.00	140.52	10066.56

FLOW DISTRIBUTION FOR SECNO= 7.08 CWSEL= 1937.93

STA=	9926.	9935.	9944.	9953.	10022.	10036.	10052.	10067.
PER Q=	.2	1.3	3.4	87.3	5.2	2.3	.4	
AREA=	8.3	26.2	46.8	538.6	71.2	45.1	14.3	
VEL=	1.7	3.6	5.2	11.6	5.2	3.7	1.8	
DEPTH=	1.0	2.9	4.9	7.8	4.9	2.9	1.0	

*SECNO 7.170

7.170	9.79	1943.79	1942.42	.00	1945.41	1.62	5.53	.08	1940.00
7187.0	46.6	6769.7	370.6	17.0	644.3	119.7	1649.7	517.6	1940.00
1.68	2.75	10.51	3.10	.090	.055	.090	.000	1934.00	9951.11
.010153	500.	500.	520.	2	11	0	.00	145.68	10096.79

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 7.17 CWSEL= 1943.79

STA=	9951.	9955.	9960.	10044.	10082.	10097.
PER Q=	.1	.6	94.2	4.9	.3	
AREA=	3.8	13.2	644.3	106.7	13.0	
VEL=	1.5	3.1	10.5	3.3	1.5	
DEPTH=	.9	2.8	7.7	2.8	.9	

CCHV= .300 CEHV= .500
*SECNO 7.280

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

7.280	8.15	1948.95	1945.45	.00	1949.22	.27	3.40	.41	1944.00
7187.0	5067.3	2119.7	.0	1490.4	382.0	.0	1665.1	520.2	1950.00
1.72	3.40	5.55	.00	.100	.055	.000	.000	1940.80	9718.75
.004530	475.	554.	410.	2	14	0	.00	324.10	10042.84

DISTRIBUTION FOR SECNO= 7.28 CWSEL= 1948.95

STA=	9719.	9760.	9800.	9837.	9850.	9874.	9924.	9962.	9972.	10047.
PER Q=	2.6	10.9	12.9	4.7	9.0	18.1	10.3	2.0	29.5	
AREA=	102.1	238.0	254.6	92.4	174.7	354.2	225.2	49.2	382.0	
VEL=	1.8	3.3	3.6	3.7	3.7	3.7	3.3	2.9	5.5	
DEPTH=	2.5	6.0	7.0	7.1	7.2	7.1	6.0	5.0	5.4	

*SECNO 7.360

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

7.360	7.47	1951.97	1951.97	.00	1953.55	1.59	3.65	.66	1948.00
7187.0	1851.8	5335.2	.0	465.2	464.3	.0	1678.8	523.3	1956.00
1.73	3.98	11.49	.00	.100	.055	.000	.000	1944.50	9741.04
.020837	420.	446.	470.	0	15	0	.00	299.24	10040.28

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 7.36 CWSEL= 1951.97

STA=	9741.	9800.	9836.	9949.	10053.
PER Q=	1.7	3.3	20.8	74.2	
AREA=	57.9	69.8	337.5	464.3	
VEL=	2.1	3.4	4.4	11.5	
DEPTH=	1.0	2.0	3.0	5.1	

*SECNO 7.460

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.60

7.460	7.54	1959.04	1957.61	.00	1959.93	.90	6.18	.21	1954.00
7187.0	916.3	4993.5	1277.2	321.4	564.8	346.8	1691.2	526.7	1953.00
1.75	2.85	8.84	3.68	.100	.055	.100	.000	1951.50	9845.21
.008189	490.	500.	510.	3	15	0	.00	291.90	10137.11

FLOW DISTRIBUTION FOR SECNO= 7.46 CWSEL= 1959.04

STA=	9845.	9861.	9923.	9969.	10051.	10082.	10119.	10131.	10137.
PER Q=	.1	3.8	8.8	69.5	9.8	7.2	.7	.0	
AREA=	8.2	126.5	186.7	564.8	167.6	152.2	23.8	3.2	
VEL=	.9	2.2	3.4	8.8	4.2	3.4	2.1	.9	
DEPTH=	.5	2.0	4.0	6.9	5.5	4.0	2.0	.5	

*SECNO 7.550

7.550	7.30	1964.00	1962.93	.00	1965.01	1.01	5.02	.06	1960.00
7187.0	455.0	3586.0	3146.0	137.7	343.3	658.9	1704.6	529.8	1958.00
1.77	3.30	10.44	4.77	.100	.055	.100	.000	1956.70	9913.86
.012904	510.	500.	480.	3	15	0	.00	259.73	10173.59

FLOW DISTRIBUTION FOR SECNO= 7.55 CWSEL= 1964.00

STA=	9914.	9929.	9970.	10025.	10145.	10159.	10174.
PER Q=	.4	6.0	49.9	41.5	2.0	.4	
AREA=	15.5	122.2	343.3	603.6	40.3	15.1	
VEL=	1.7	3.5	10.4	4.9	3.5	1.7	
DEPTH=	1.0	3.0	6.3	5.0	3.0	1.0	

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 7.650
    7.650      7.86   1969.66   1968.16       .00   1970.30       .64      5.18       .11   1964.00
   7187.0    3708.2    2848.5     630.3     917.7     315.8     245.5    1719.6     533.2   1966.00
     1.79      4.04      9.02      2.57      .100      .055      .100      .000   1961.80   9788.50
  .008556      520.      500.      470.         2        15         0       .00    336.89  10125.39


FLOW DISTRIBUTION FOR SECNO=      7.65          CWSEL=   1969.66

STA=    9788.    9805.    9827.    9882.    9917.    9977.   10023.   10110.   10125.
  PER Q=      .9      5.5     15.0      9.5     20.8     39.6      8.5       .2
   AREA=    30.3    102.7    270.5    172.1    342.2    315.8    232.4     13.1
    VEL=     2.0      3.8      4.0      4.0      4.4      9.0      2.6      1.2
  DEPTH=     1.8      4.7      4.9      4.9      5.7      7.0      2.7       .8

*SECNO 7.740

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .67

    7.740      6.14   1975.24   1974.59       .00   1976.00       .76      5.64       .06   1972.00
   7187.0    3050.7    1780.4    2355.9     702.8     156.4     458.6    1734.0     536.9   1970.00
     1.81      4.34     11.38      5.14      .100      .055      .100      .000   1969.10   9747.78
  .019102      425.      500.      475.         3        19         0       .00    382.95  10130.73


FLOW DISTRIBUTION FOR SECNO=      7.74          CWSEL=   1975.24

STA=    9748.    9800.    9836.    9888.    9915.    9968.    9981.   10010.   10062.   10086.   10110.   10118.   10131.
  PER Q=      8.4      6.8      9.8      5.5      9.7      2.4     24.8     16.5      4.5      6.2      3.6      2.0
   AREA=    142.1    111.4    160.9     87.6    161.3     39.6    156.4    220.7     74.3     89.2     42.0     32.5
    VEL=      4.2      4.4      4.4      4.5      4.3      4.3     11.4      5.4      4.4      5.0      6.2      4.3
  DEPTH=      2.7      3.1      3.1      3.2      3.0      3.0      5.4      4.2      3.1      3.7      5.2      2.6

*SECNO 7.840

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.44

    7.840      7.56   1981.96   1980.75       .00   1982.57       .62      6.53       .04   1976.00
   7187.0    2674.8    2574.8    1937.4     656.9     277.4     611.5    1750.7     541.4   1976.00
     1.83      4.07      9.28      3.17      .100      .055      .100      .000   1974.40   9828.21
  .009255      575.      500.      425.         2         8         0       .00    393.52  10221.74
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 7.84 CWSEL= 1981.96

STA=	9828.	9841.	9908.	9916.	9918.	9941.	9975.	9984.	10025.	10036.	10073.	10206.	10222.
PER Q=	.2	8.2	2.3	.8	9.0	13.3	3.5	35.8	3.1	7.3	16.2	.3	
AREA=	12.6	198.8	39.7	11.9	137.2	202.9	53.7	277.4	54.6	146.8	394.6	15.5	
VEL=	1.4	3.0	4.1	4.7	4.7	4.7	4.7	9.3	4.1	3.6	3.0	1.4	
DEPTH=	1.0	3.0	5.0	6.0	6.0	6.0	6.0	6.8	5.0	4.0	3.0	1.0	

*SECNO 7.890

7.890	7.83	1984.83	1984.25	.00	1985.65	.82	2.97	.10	1982.00
7187.0	809.0	2765.1	3612.9	338.9	263.7	812.6	1759.6	544.0	1978.00
1.85	2.39	10.49	4.45	.100	.055	.100	.000	1977.00	9760.70
.013393	300.	300.	220.	3	11	0	.00	480.93	10241.63

FLOW DISTRIBUTION FOR SECNO= 7.89 CWSEL= 1984.83

STA=	9761.	9845.	9978.	10020.	10054.	10082.	10149.	10170.	10219.	10242.
PER Q=	4.2	7.1	38.5	15.3	9.2	15.7	3.0	6.6	.4	
AREA=	129.0	209.9	263.7	198.1	135.1	263.1	61.5	138.5	16.4	
VEL=	2.3	2.4	10.5	5.6	4.9	4.3	3.5	3.4	1.8	
DEPTH=	1.5	1.6	6.3	5.8	4.8	3.9	2.9	2.8	.7	

*SECNO 7.980

7.980	7.93	1989.73	1988.97	.00	1990.30	.57	4.58	.08	1984.00
7187.0	4029.4	2385.8	771.8	1259.3	251.1	250.9	1773.8	548.3	1984.00
1.87	3.20	9.50	3.08	.100	.055	.100	.000	1981.80	9577.99
.009073	280.	465.	520.	2	10	0	.00	535.20	10113.19

FLOW DISTRIBUTION FOR SECNO= 7.98 CWSEL= 1989.73

STA=	9578.	9740.	9757.	9773.	9859.	9898.	9927.	9950.	9975.	9982.	10017.	10039.	10075.
PER Q=	12.4	3.7	3.5	15.2	6.3	4.7	4.1	4.4	1.8	33.2	5.8	3.8	
AREA=	345.8	72.0	67.7	321.1	137.8	102.5	85.9	93.3	33.1	251.1	104.1	98.4	
VEL=	2.6	3.7	3.7	3.4	3.3	3.3	3.4	3.4	3.9	9.5	4.0	2.8	
DEPTH=	2.1	4.2	4.2	3.7	3.5	3.5	3.7	3.7	4.7	7.2	4.7	2.7	

STA=	10075.	10113.
PER Q=	1.2	
AREA=	48.4	
VEL=	1.8	
DEPTH=	1.3	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 8.020

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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*********************************************************************
********* CONFLUENCE OF APACHE WASH AND W. BR. APACHE WASH **********
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8.020	7.14	1992.24	1992.24	.00	1993.68	1.44	2.84	.43	1988.00
7187.0	2217.4	4309.2	660.4	551.5	359.2	169.2	1781.1	550.8	1988.00
1.88	4.02	12.00	3.90	.100	.055	.100	.000	1985.10	9694.66
.018271	215.	235.	245.	0	15	0	.00	415.18	10109.83

FLOW DISTRIBUTION FOR SECNO= 8.02 CWSEL= 1992.24

STA=	9695.	9765.	9862.	9894.	9897.	9951.	9977.	10037.	10077.	10109.
PER Q=	.2	4.1	6.3	.9	13.0	6.2	60.0	7.9	1.3	
AREA=	19.3	124.9	103.6	12.7	196.4	94.6	359.2	129.5	39.6	
VEL=	.9	2.4	4.4	5.3	4.8	4.7	12.0	4.4	2.3	
DEPTH=	.3	1.3	3.2	4.2	3.6	3.6	6.0	3.2	1.2	

[illegible]= .300 CEHV= .500
*SECNO 8.120

3301 HV CHANGED MORE THAN HVINS

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*********************************************************************
 FIRST CROSS SECTION ON APACHE WASH UPSTREAM OF CONFLUENCE ***********
 WITH APACHE WASH-WEST BRANCH. Q100 = 3853 CFS ***********************
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8.120	8.89	1998.69	1996.25	.00	1999.11	.42	5.13	.30	1990.00
3853.0	955.0	1204.3	1693.7	308.2	149.4	523.5	1792.7	554.2	1990.00
1.90	3.10	8.06	3.24	.100	.055	.100	.000	1989.80	9911.72
.004906	450.	500.	525.	3	15	0	.00	207.55	10119.28

FLOW DISTRIBUTION FOR SECNO= 8.12 CWSEL= 1998.69

STA=	9912.	9920.	9945.	9965.	9978.	9993.	10010.	10019.	10085.	10101.	10111.	10119.
PER Q=	.0	1.6	4.7	6.3	12.1	31.3	7.2	32.3	3.8	.6	.0	
AREA=	2.9	42.2	73.8	74.0	115.3	149.4	69.2	375.5	59.0	16.9	2.9	
VEL=	.5	1.5	2.5	3.3	4.0	8.1	4.0	3.3	2.5	1.5	.5	
DEPTH=	.3	1.7	3.7	5.7	7.7	8.8	7.7	5.7	3.7	1.7	.3	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 8.210

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

8.210	7.07	2002.47	2002.47	.00	2004.20	1.73	4.37	.65	1996.00
3853.0	638.5	2045.0	1169.6	120.6	148.9	247.4	1801.2	556.2	1996.00
1.92	5.30	13.74	4.73	.100	.055	.100	.000	1995.40	9944.64
.020244	515.	500.	480.	0	15	0	.00	150.10	10094.73

FLOW DISTRIBUTION FOR SECNO= 8.21 CWSEL= 2002.47

STA=	9945.	9950.	9962.	9974.	9985.	10007.	10020.	10039.	10056.	10076.	10091.	10095.
PER Q=	.0	1.2	5.2	10.1	53.1	12.0	8.2	3.9	4.6	1.5	.0	
AREA=	1.3	17.6	41.6	60.1	148.9	71.1	65.9	40.2	47.3	22.0	.9	
VEL=	.8	2.7	4.8	6.5	13.7	6.5	4.8	3.8	3.8	2.7	.8	
DEPTH=	.2	1.5	3.5	5.5	6.8	5.5	3.5	2.4	2.4	1.5	.2	

*SECNO 8.310

HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

8.310	8.62	2009.92	2009.26	.00	2010.70	.79	6.22	.28	2002.00
3853.0	232.7	1683.6	1936.7	60.8	165.3	652.2	1809.1	558.7	2002.00
1.94	3.82	10.18	2.97	.100	.055	.100	.000	2001.30	9978.08
.008525	500.	500.	490.	4	8	0	.00	293.92	10272.01

FLOW DISTRIBUTION FOR SECNO= 8.31 CWSEL= 2009.92

STA=	9978.	9980.	9984.	9988.	9992.	10012.	10019.	10059.	10123.	10187.	10231.	10249.	10272.
PER Q=	.1	.8	1.9	3.3	43.7	6.1	20.2	13.6	4.6	3.1	1.9	.8	
AREA=	1.8	11.7	19.7	27.7	165.3	48.4	196.7	186.7	97.1	66.8	34.5	22.1	
VEL=	1.1	2.6	3.7	4.6	10.2	4.9	4.0	2.8	1.8	1.8	2.1	1.3	
DEPTH=	1.0	2.9	4.9	6.9	8.3	6.9	4.9	2.9	1.5	1.5	1.9	1.0	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 8.400
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

8.400	6.82	2015.52	2015.52	.00	2016.63	1.11	5.20	.16	2010.00
3853.0	701.7	2340.3	811.0	190.2	222.1	302.4	1817.9	561.9	2010.00
1.96	3.69	10.54	2.68	.100	.055	.100	.000	2008.70	9915.68
.013487	520.	500.	470.	0	14	0	.00	290.67	10206.35

FLOW DISTRIBUTION FOR SECNO= 8.40 CWSEL= 2015.52

STA=	9916.	9921.	9968.	9983.	10019.	10030.	10039.	10057.	10109.	10148.	10179.	10206.
PER Q=	.1	9.8	8.3	60.7	6.0	1.9	1.2	3.5	4.3	3.4	.8	
AREA=	4.0	118.4	67.8	222.1	49.7	22.7	22.8	66.0	67.1	53.3	20.8	
VEL=	1.4	3.2	4.7	10.5	4.7	3.1	2.0	2.0	2.5	2.5	1.4	
DEPTH=	.8	2.5	4.5	6.2	4.5	2.5	1.3	1.3	1.7	1.7	.8	

*SECNO 8.500

3265 DIVIDED FLOW

8.500	7.31	2021.61	2020.76	.00	2022.37	.76	5.64	.10	2016.00
3853.0	879.1	2060.2	913.7	311.7	226.1	269.0	1826.7	565.2	2016.00
1.98	2.82	9.11	3.40	.100	.055	.100	.000	2014.30	9827.21
.009529	450.	500.	550.	3	11	0	.00	274.03	10107.05

FLOW DISTRIBUTION FOR SECNO= 8.50 CWSEL= 2021.61

STA=	9827.	9952.	9984.	9991.	10026.	10039.	10074.	10085.	10107.
PER Q=	8.7	10.7	3.4	53.5	6.2	11.2	3.5	2.8	
AREA=	160.0	118.7	33.0	226.1	59.9	126.4	39.7	43.0	
VEL=	2.1	3.5	4.0	9.1	4.0	3.4	3.4	2.5	
DEPTH=	1.3	3.7	4.7	6.5	4.6	3.6	3.6	2.0	

CCHV= .100 CEHV= .300
*SECNO -3.960
START TRIB COMP
-3.960 3.960 1782.424
****
SPLIT FLOW FROM UPSTREAM OF CAREFREE HWY. REENTERS HERE

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*************************************************************************
-3.960      8.42   1782.42      .00      .00   1783.10      .67     4.94      .80   1782.00
 7213.0      1.1    5254.8   1957.1      1.4     701.7    639.4   1838.8    570.7   1782.00
   2.00      .81      7.49     3.06     .065      .050     .065     .000  1774.00   9876.48
 .010033     490.     520.     460.        0         0        0      .00   725.47  10601.94


FLOW DISTRIBUTION FOR SECNO=     -3.96          CWSEL=   1782.42

STA=    9876.    9883.   10057.   10180.   10410.   10418.   10423.   10433.   10548.   10602.
  PER Q=      .0     72.9      .9     13.2      2.0      1.7      2.6      6.6       .1
   AREA=     1.4    701.7     51.9    327.3     28.3     20.1     36.8    163.6     11.4
    VEL=      .8      7.5      1.3      2.9      5.1      6.2      5.1      2.9       .8
  DEPTH=      .2      4.0       .4      1.4      3.4      4.4      3.4      1.4       .2

*SECNO 4.055

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .35

        *************************************************************************
           BEGINNING OF WEST OVERFLOW CHANNEL CAUSED BY SPLIT FLOW UPSTREAM
           OF CAREFREE HIGHWAY.  Q100=1,866 CFS
        *************************************************************************
    4.055      3.48   1785.48   1784.47      .00   1785.65      .18     2.51      .05   1782.00
   1866.0     358.7     573.0     934.2    139.8     124.0    345.8   1845.3    574.2   1782.00
     2.03      2.57      4.62      2.70     .065      .050     .065     .000  1782.00   9869.67
  .005358      300.      290.      285.        2        17        0      .00   344.92  10214.59


 DISTRIBUTION FOR SECNO=      4.05          CWSEL=   1785.48

STA=    9870.    9925.    9965.   10005.   10115.   10215.
  PER Q=      3.0     16.2     30.7     44.7      5.4
   AREA=     40.8     99.0    124.0    272.3     73.5
    VEL=      1.4      3.1      4.6      3.1      1.4
  DEPTH=       .7      2.5      3.1      2.5       .7

*SECNO 4.111

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .56

    4.111      3.42   1787.62   1787.30      .00   1787.86      .24     2.18      .02   1786.00
   1866.0     820.3     173.9     871.8    230.6      25.2    255.2   1848.4    576.4   1786.00
     2.05      3.56      6.91      3.42     .065      .050     .065     .000  1784.20   9799.87
  .017101      320.      250.      200.        2        10        0      .00   435.70  10235.57
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.11 CWSEL= 1787.62

STA=	9800.	9905.	9995.	10005.	10090.	10236.
PER Q=	11.8	32.1	9.3	30.4	16.4	
AREA=	85.0	145.6	25.2	137.5	117.7	
VEL=	2.6	4.1	6.9	4.1	2.6	
DEPTH=	.8	1.6	2.5	1.6	.8	

*SECNO 4.233

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.62

4.233	2.93	1791.93	1791.18	.00	1792.04	.11	4.17	.01	1790.00
1866.0	1314.3	210.1	341.6	558.9	48.6	155.5	1854.5	581.3	1790.00
2.09	2.35	4.32	2.20	.065	.050	.065	.000	1789.00	9560.35
.006530	420.	430.	410.	4	23	0	.00	580.90	10141.25

FLOW DISTRIBUTION FOR SECNO= 4.23 CWSEL= 1791.93

STA=	9560.	9840.	9990.	10010.	10040.	10141.
PER Q=	26.1	44.4	11.3	8.9	9.4	
AREA=	269.7	289.3	48.6	57.9	97.6	
VEL=	1.8	2.9	4.3	2.9	1.8	
DEPTH=	1.0	1.9	2.4	1.9	1.0	

*SECNO 4.311

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

****
FLOW SPLIT FROM EAST CHANNEL; Q100=1,866 CFS
****

4.311	3.18	1795.18	1794.99	.00	1795.41	.23	3.34	.04	1792.00
1866.0	1021.4	242.1	602.5	346.5	31.9	204.9	1860.1	586.2	1792.00
2.12	2.95	7.60	2.94	.065	.050	.065	.000	1792.00	9599.66
.013954	370.	370.	340.	3	5	0	.00	597.74	10197.40

FLOW DISTRIBUTION FOR SECNO= 4.31 CWSEL= 1795.18

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9600.	9890.	9945.	9995.	10005.	10010.	10150.	10197.
PER Q=	17.6	10.6	26.6	13.0	2.5	26.9	2.9	
AREA=	172.0	65.2	109.3	31.9	10.9	165.9	28.1	
VEL=	1.9	3.0	4.5	7.6	4.3	3.0	1.9	
DEPTH=	.6	1.2	2.2	3.2	2.2	1.2	.6	

*SECNO 4.499

```
*************************************************************************
    FLOW SPLIT FROM EAST CHANNEL;  Q100=1,866 CFS
*************************************************************************
```

4.499	2.77	1800.27	1799.69	.00	1800.39	.12	4.96	.01	1798.00
1866.0	1146.7	297.1	422.2	523.2	62.8	185.8	1867.8	593.6	1798.00
2.17	2.19	4.73	2.27	.065	.050	.065	.000	1797.50	9443.52
.007446	450.	550.	575.	4	17	0	.00	734.92	10178.43

FLOW DISTRIBUTION FOR SECNO= 4.50 CWSEL= 1800.27

STA=	9444.	9465.	9600.	9985.	10010.	10155.	10178.
PER Q=	.1	1.5	59.9	15.9	22.5	.1	
AREA=	2.8	35.2	485.2	62.8	182.8	3.1	
VEL=	.5	.8	2.3	4.7	2.3	.5	
DEPTH=	.1	.3	1.3	2.5	1.3	.1	

*SECNO 4.655

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

```
*************************************************************************
    FLOW SPLIT FORM EAST CHANNEL;  Q100=1250 CFS
*************************************************************************
```

4.655	2.35	1804.35	1803.81	.00	1804.53	.17	4.12	.02	1802.00
1250.0	364.2	443.6	442.2	200.3	94.1	177.8	1875.5	601.5	1802.00
2.22	1.82	4.71	2.49	.065	.050	.065	.000	1802.00	9628.80
.008033	560.	540.	500.	4	15	0	.00	531.79	10160.60

FLOW DISTRIBUTION FOR SECNO= 4.66 CWSEL= 1804.35

STA=	9629.	9650.	9900.	9980.	10020.	10150.	10161.
PER Q=	.2	7.2	21.7	35.5	35.3	.1	
AREA=	3.7	88.3	108.3	94.1	175.9	1.9	
VEL=	.6	1.0	2.5	4.7	2.5	.6	
DEPTH=	.2	.4	1.4	2.4	1.4	.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.722

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .41

****
FLOW SPLIT FROM EAST CHANNEL; Q100= 723 CFS
****

4.722	2.06	1809.06	1808.92	.00	1809.38	.32	4.81	.04	1808.00
723.0	45.4	554.6	123.0	23.9	109.2	64.6	1879.2	605.9	1808.00
2.25	1.90	5.08	1.90	.065	.050	.065	.000	1807.00	9919.94
.016138	550.	475.	430.	2	15	0	.00	237.00	10156.93

FLOW DISTRIBUTION FOR SECNO= 4.72 CWSEL= 1809.06

STA=	9920.	9965.	10035.	10157.
PER Q=	6.3	76.7	17.0	
AREA=	23.9	109.2	64.6	
VEL=	1.9	5.1	1.9	
DEPTH=	.5	1.6	.5	

*SECNO 4.744

****
END OF WEST OVERFLOW CHANNEL CAUSED BY SPLIT FLOW UPSTREAM OF
CAREFREE HIGHWAY. Q100= 285 CFS
****

4.744	1.98	1810.98	1810.32	.00	1811.06	.08	1.65	.02	1810.00
285.0	14.7	248.2	22.1	16.7	103.3	25.0	1879.9	606.7	1810.00
2.27	.88	2.40	.88	.065	.050	.065	.000	1809.00	9935.83
.003887	190.	170.	170.	3	14	0	.00	155.42	10091.25

FLOW DISTRIBUTION FOR SECNO= 4.74 CWSEL= 1810.98

STA=	9936.	9970.	10040.	10091.
PER Q=	5.2	87.1	7.8	
AREA=	16.7	103.3	25.0	
VEL=	.9	2.4	.9	
DEPTH=	.5	1.5	.5	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .030 CEHV= .050
*SECNO -8.020
START TRIB COMP
-8.020 8.020 1992.238

3301 HV CHANGED MORE THAN HVINS

****
CONFLUENCE OF APACHE WASH AND APACHE WASH-WEST BRANCH
****

-8.020	7.14	1992.24	.00	.00	1993.69	1.45	.00	1.68	1988.00
7213.0	2225.4	4324.8	662.8	551.5	359.2	169.2	1879.9	606.7	1988.00
2.27	4.03	12.04	3.92	.100	.055	.100	.000	1985.10	9694.66
.018404	0.	0.	0.	0	0	0	.00	415.18	10109.83

FLOW DISTRIBUTION FOR SECNO= -8.02 CWSEL= 1992.24

STA=	9695.	9765.	9862.	9894.	9897.	9951.	9977.	10037.	10077.	10109.
PER Q=	.2	4.1	6.3	.9	13.0	6.2	60.0	7.9	1.3	
AREA=	19.3	124.9	103.6	12.7	196.4	94.6	359.2	129.5	39.6	
VEL=	.9	2.4	4.4	5.3	4.8	4.8	12.0	4.4	2.3	
DPTH=	.3	1.3	3.2	4.2	3.6	3.6	6.0	3.2	1.2	

*SECNO .090

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

****
FIRST CROSS SECTION ON APACHE WASH-WEST BRANCH UPSTREAM OF CONFLUENCE
UPSTREAM OF CONFLUENCE. Q100 = 2191 CFS
****

.090	8.88	1999.08	1997.28	.00	1999.44	.35	5.72	.03	1992.00
2191.0	398.8	883.0	909.2	159.7	127.7	374.7	1889.6	610.0	1992.00
2.31	2.50	6.91	2.43	.100	.055	.100	.000	1990.20	9940.41
.004246	525.	500.	425.	3	6	0	.00	171.72	10112.13

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .09 CWSEL= 1999.08

STA=	9940.	9948.	9967.	9979.	9990.	10006.	10014.	10081.	10104.	10112.
PER Q=	.1	2.8	5.5	9.8	40.3	7.0	30.9	3.4	.1	
AREA=	4.1	39.6	49.0	66.9	127.7	48.7	273.6	47.9	4.4	
VEL=	.6	1.6	2.5	3.2	6.9	3.2	2.5	1.6	.6	
DEPTH=	.5	2.1	4.1	6.1	8.0	6.1	4.1	2.1	.5	

*SECNO .130

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.130	6.11	2000.11	2000.11	.00	2001.68	1.57	1.66	.06	1996.00
2191.0	125.8	1577.5	487.8	31.6	136.1	121.5	1891.9	610.7	1996.00
2.31	3.98	11.59	4.02	.100	.055	.100	.000	1994.00	9972.55
.020630	200.	207.	210.	0	19	0	.00	101.21	10073.76

FLOW DISTRIBUTION FOR SECNO= .13 CWSEL= 2000.11

	9973.	9979.	9987.	10013.	10043.	10068.	10074.
PER Q=	.7	5.1	72.0	19.4	2.9	.0	
AREA=	6.7	24.9	136.1	93.4	27.8	.3	
VEL=	2.2	4.5	11.6	4.5	2.3	.3	
DEPTH=	1.0	3.1	5.2	3.1	1.1	.1	

*SECNO .210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

.210	5.58	2006.88	2005.97	.00	2007.25	.37	5.53	.04	2002.00
2191.0	1420.3	652.7	118.0	490.6	83.6	39.9	1896.4	612.3	2002.00
2.34	2.89	7.81	2.96	.100	.055	.100	.000	2001.30	9804.10
.009280	500.	396.	275.	4	19	0	.00	217.39	10021.49

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .21 CWSEL= 2006.88

STA=	9804.	9815.	9847.	9849.	9893.	9955.	9989.	10005.	10012.	10018.	10021.
PER Q=	.2	5.9	.8	15.3	21.5	21.2	29.8	4.3	1.1	.1	
AREA=	4.8	59.9	5.7	119.8	168.8	131.7	83.6	27.1	11.2	1.5	
VEL=	.8	2.2	2.9	2.8	2.8	3.5	7.8	3.4	2.1	.8	
DEPTH=	.4	1.9	2.9	2.7	2.7	3.9	5.2	3.9	1.9	.4	

*SECNO .280

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .54

.280	3.39	2012.39	2012.10	.00	2012.96	.58	5.70	.01	2009.90
2191.0	1624.5	540.0	26.5	376.3	55.5	8.6	1900.8	614.1	2010.00
2.36	4.32	9.73	3.09	.100	.055	.100	.000	2009.00	9796.88
.031327	350.	397.	460.	3	11	0	.00	216.48	10013.35

FLOW DISTRIBUTION FOR SECNO= .28 CWSEL= 2012.39

STA=	9797.	9799.	9860.	9940.	9987.	10006.	10012.	10013.
PER Q=	.0	11.1	38.1	24.9	24.6	1.2	.0	
AREA=	.4	78.5	182.9	114.5	55.5	8.3	.3	
VEL=	.9	3.1	4.6	4.8	9.7	3.2	.9	
DEPTH=	.2	1.3	2.3	2.4	2.9	1.4	.2	

*SECNO .340

.340	4.70	2018.70	2017.71	.00	2019.07	.37	6.10	.01	2014.00
2191.0	1734.1	455.9	1.0	441.8	61.2	1.1	1903.8	615.3	2018.00
2.37	3.92	7.45	.92	.100	.055	.100	.000	2014.00	9833.80
.016031	275.	295.	310.	4	8	0	.00	178.35	10012.15

FLOW DISTRIBUTION FOR SECNO= .34 CWSEL= 2018.70

STA=	9834.	9838.	9862.	9877.	9914.	9934.	9991.	10009.	10012.
PER Q=	.1	5.0	6.7	15.6	8.4	43.3	20.8	.0	
AREA=	1.5	40.8	40.5	96.2	52.0	210.9	61.2	1.1	
VEL=	.9	2.7	3.6	3.6	3.6	4.5	7.5	.9	
DEPTH=	.3	1.7	2.7	2.6	2.6	3.7	3.4	.3	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9905.	9913.	9950.	9973.	10000.	10008.	10020.	10030.	10039.
PER Q=	.2	6.1	12.2	34.6	25.5	15.3	5.3	.8	
AREA=	3.8	52.5	66.0	131.5	47.0	58.4	28.7	8.7	
VEL=	1.2	2.5	4.1	5.8	11.9	5.7	4.0	1.9	
DEPTH=	.5	1.4	2.9	4.9	5.9	4.9	2.9	.9	

T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME APACHE.DAT JJA NO. 290-018
T3 REV. 6-22-92 APACHE WASH -- 100 YEAR FLOW FLOODWAY WITH ENCROACHMENTS

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10	2	0	0	0.005	0	0	17136	1657.1	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1	0	0	0	-1	0	0	15

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 2

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .100 CEHV= .300
*SECNO .200

3470 ENCROACHMENT STATIONS= 9600.0 10190.0 TYPE= 1 TARGET= 590.000
****
PONDING FROM CAVE BUTTES RESERVOIR ELEVATION 1657.1; Q100=17,136 CFS
****

.200	13.76	1659.76	1658.31	1659.64	1660.58	.83	.00	.00	1650.00
17136.0	7246.6	8086.0	1803.4	1655.6	838.7	511.7	.0	.0	1656.00
.00	4.38	9.64	3.52	.070	.055	.070	.000	1646.00	9600.00
.005023	0.	0.	0.	0	8	4	.00	589.98	10189.98

FLOW DISTRIBUTION FOR SECNO= .20 CWSEL= 1659.76

STA=	9600.	9607.	9642.	9674.	9827.	9904.	9940.	9968.	10039.	10067.	10161.	10177.	10190.
PER Q=	.1	1.7	2.5	12.2	9.1	7.6	9.1	47.2	2.2	7.5	.8	.1	
AREA=	12.1	97.0	118.0	577.2	365.5	242.0	243.7	838.7	102.1	353.9	44.2	11.5	
VEL=	1.9	3.0	3.6	3.6	4.3	5.4	6.4	9.6	3.6	3.6	2.9	1.4	
DEPTH=	1.8	2.8	3.8	3.8	4.8	6.8	8.8	11.7	3.8	3.8	2.8	.9	

*SECNO .330

3470 ENCROACHMENT STATIONS= 9900.0 10300.0 TYPE= 1 TARGET= 400.000

.330	10.79	1662.99	1660.54	1662.78	1663.88	.89	3.28	.02	1660.00
17136.0	100.4	11637.7	5397.9	39.8	1377.4	1037.1	35.8	6.3	1658.00
.02	2.52	8.45	5.20	.070	.055	.070	.000	1652.20	9900.00
.006044	350.	650.	700.	2	14	0	.00	400.00	10300.00

FLOW DISTRIBUTION FOR SECNO= .33 CWSEL= 1662.99

STA=	9900.	9920.	10090.	10135.	10150.	10170.	10220.	10250.	10300.
PER Q=	.6	67.9	6.3	4.2	7.0	9.5	2.9	1.6	
AREA=	39.8	1377.4	224.6	115.4	173.8	299.5	119.7	104.1	
VEL=	2.5	8.4	4.8	6.2	6.9	5.4	4.1	2.6	
DEPTH=	2.0	8.1	5.0	7.7	8.7	6.0	4.0	2.1	

```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .430

3470 ENCROACHMENT STATIONS=     9900.0   10368.0  TYPE=      1  TARGET=      468.000
      .430     11.00   1666.00   1664.46   1665.53   1666.86       .86      2.98       .00   1660.00
   17136.0     658.9    7634.3    8842.8     169.5     794.2    1702.3      63.3      10.9   1660.00
      .04      3.89      9.61      5.19      .070      .055      .070      .000   1655.00   9900.00
   .006531     505.      500.      440.         2        10         0       .00    468.00  10368.00


FLOW DISTRIBUTION FOR SECNO=       .43          CWSEL=   1666.00

STA=    9900.    9940.    9950.   10035.   10050.   10120.   10190.   10240.   10270.   10290.   10350.   10368.
  PER Q=     2.4      1.4     44.6      2.3      7.6     10.6     12.8      7.7      2.9      6.0      1.8
   AREA=   119.6     49.9    794.2     76.4    293.3    356.3    349.5    209.7     99.8    239.4     77.7
    VEL=     3.4      4.9      9.6      5.1      4.5      5.1      6.3      6.3      5.0      4.3      3.9
  DEPTH=     3.0      5.0      9.3      5.1      4.2      5.1      7.0      7.0      5.0      4.0      4.3

*SECNO  .540

3470 ENCROACHMENT STATIONS=     9840.0   10340.0  TYPE=      1  TARGET=      500.000
      .540     10.02   1670.02   1669.12   1669.04   1671.01       .98      4.11       .04   1664.00
   17136.0    4175.1    6417.8    6543.1     683.1     587.7    1301.0      95.1      16.5   1664.00
      .06      6.11     10.92      5.03      .070      .055      .070      .000   1660.00   9840.00
   .008469     800.      640.      400.         2        10         0       .00    500.00  10340.00


FLOW DISTRIBUTION FOR SECNO=       .54          CWSEL=   1670.02

STA=    9840.    9875.    9965.   10027.   10068.   10198.   10256.   10340.
  PER Q=     3.9     20.5     37.5      7.0     15.1      6.7      9.5
   AREA=   140.9    542.2    587.7    208.1    522.9    231.4    338.5
    VEL=     4.7      6.5     10.9      5.7      4.9      4.9      4.8
  DEPTH=     4.0      6.0      9.5      5.0      4.0      4.0      4.0

*SECNO  .630

3470 ENCROACHMENT STATIONS=     9662.0   10180.0  TYPE=      1  TARGET=      518.000
      .630      9.60   1673.60   1671.82   1672.90   1674.25       .65      3.21       .03   1668.00
   17136.0    7645.7    5918.0    3572.3    1572.7     678.3     721.1     124.0      21.9   1668.00
      .08      4.86      8.72      4.95      .070      .055      .070      .000   1664.00   9662.00
   .005837     300.      500.      600.         2        14         0       .00    518.00  10180.00
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      .63        CWSEL=   1673.60

STA=    9662.    9799.    9853.    9967.    9967.   10044.   10128.   10152.   10180.
  PER Q=     16.5      9.0     19.2       .0     34.5     14.1      3.9      2.9
   AREA=    629.7    300.3    642.4       .3    678.3    472.1    130.4    118.5
    VEL=      4.5      5.1      5.1      5.1      8.7      5.1      5.1      4.1
  DEPTH=      4.6      5.6      5.6      5.6      8.8      5.6      5.6      4.2

*SECNO  .710

3470 ENCROACHMENT STATIONS=     9730.0   10150.0  TYPE=      1  TARGET=      420.000
      .710     11.77   1675.77   1674.12   1675.34   1676.79      1.02      2.43       .11   1668.00
   17136.0    5687.0    9541.8    1907.2    1153.4     960.8     380.3     148.7      26.1   1668.00
      .10      4.93      9.93      5.02      .070      .055      .070      .000   1664.00   9730.00
   .006479     370.      400.      440.         2         8         0       .00    420.00  10150.00


FLOW DISTRIBUTION FOR SECNO=      .71        CWSEL=   1675.77

STA=    9730.    9806.    9930.    9974.   10071.   10090.   10126.   10150.
  PER Q=      6.0     16.6     10.6     55.7      4.6      5.0      1.5
   AREA=    267.4    587.8    298.2    960.8    130.3    174.4     75.6
    VEL=      3.8      4.8      6.1      9.9      6.1      4.9      3.4
  DEPTH=      3.5      4.8      6.7      9.9      6.8      4.8      3.1

CCHV=     .300 CEHV=     .500
*SECNO  .750

3470 ENCROACHMENT STATIONS=     9750.0   10214.0  TYPE=      1  TARGET=      464.000
      .750     11.24   1677.24   1675.17   1676.96   1678.02       .78      1.16       .07   1670.00
   17136.0    3626.8    7637.5    5871.7     841.4     839.1    1125.8     160.6      28.1   1670.00
      .10      4.31      9.10      5.22      .070      .055      .070      .000   1666.00   9750.00
   .005345     180.      200.      210.         2        19         0       .00    464.00  10214.00


FLOW DISTRIBUTION FOR SECNO=      .75        CWSEL=   1677.24

STA=    9750.    9820.    9884.    9944.    9944.   10028.   10060.   10080.   10120.   10146.   10173.   10214.
  PER Q=      4.4      5.3     11.4       .1     44.6      7.9      5.0      6.2      5.9      5.2      3.9
   AREA=    226.4    240.2    373.3      1.5    839.1    233.4    148.5    218.7    180.1    171.1    174.1
    VEL=      3.3      3.8      5.3      5.8      9.1      5.8      5.8      4.9      5.6      5.3      3.9
  DEPTH=      3.2      3.8      6.2      7.2     10.0      7.2      7.2      5.6      6.9      6.2      4.3
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .840

3470 ENCROACHMENT STATIONS=     9885.0   10280.0  TYPE=      1  TARGET=      395.000
      .840     10.00   1680.00   1677.44   1679.29   1680.71       .71      2.67       .02   1672.00
   17136.0    2600.9    4380.3   10154.8     466.2     535.1    1600.2     187.3      32.3   1672.00
      .12      5.58      8.19      6.35      .070      .070      .070      .000   1670.00   9885.00
   .007258     420.      440.      430.         2        23         0       .00    395.00  10280.00


FLOW DISTRIBUTION FOR SECNO=       .84          CWSEL=   1680.00

STA=    9885.    9910.    9975.   10030.   10080.   10110.   10125.   10150.   10230.   10280.
  PER Q=      1.6     13.6     25.6     13.8      8.3      6.1      8.4     16.7      5.9
   AREA=     76.0    390.2    535.1    355.1    213.1    135.0    200.1    480.2    216.8
    VEL=      3.6      6.0      8.2      6.7      6.7      7.8      7.2      6.0      4.6
  DEPTH=      3.0      6.0      9.7      7.1      7.1      9.0      8.0      6.0      4.3

CCHV=     .100 CEHV=     .300
*SECNO  .990

3470 ENCROACHMENT STATIONS=     9931.0   10550.0  TYPE=      1  TARGET=      619.000
      .990      6.84   1684.84   1682.83   1684.13   1685.36       .52      4.63       .02   1680.00
   17136.0     415.9    2911.9   13808.2     110.0     371.5    2599.6     229.0      39.6   1680.00
      .15      3.78      7.84      5.31      .070      .055      .070      .000   1678.00   9931.00
   .006900     890.      900.      550.         2        11         0       .00    619.00  10550.00


FLOW DISTRIBUTION FOR SECNO=       .99          CWSEL=   1684.84

STA=    9931.    9970.   10026.   10147.   10277.   10327.   10368.   10419.   10542.   10550.
  PER Q=      2.4     17.0     11.7     11.0      9.7     10.5     12.8     24.1       .8
   AREA=    110.0    371.5    464.9    456.5    291.6    282.3    344.3    723.1     36.9
    VEL=      3.8      7.8      4.3      4.1      5.7      6.4      6.4      5.7      3.6
  DEPTH=      2.8      6.6      3.8      3.5      5.8      6.8      6.8      5.8      4.8

*SECNO 1.090

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9923.0   10430.0  TYPE=      1  TARGET=      507.000
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1.090	8.10	1688.10	1687.89	1687.53	1689.71	1.62	4.02	.33	1682.00
17136.0	1002.5	8125.4	8008.1	160.7	599.3	1431.8	256.5	45.5	1682.00
.17	6.24	13.56	5.59	.070	.045	.070	.000	1680.00	9923.00
.011331	500.	500.	440.	2	8	0	.00	507.00	10430.00

FLOW DISTRIBUTION FOR SECNO= 1.09 CWSEL= 1688.10

STA=	9923.	9927.	9935.	9960.	10039.	10090.	10150.	10190.	10356.	10430.
PER Q=	.1	.7	5.1	47.4	13.6	8.3	1.8	14.3	8.7	
AREA=	5.4	24.3	131.0	599.3	308.6	246.9	84.2	512.3	279.7	
VEL=	2.4	4.7	6.7	13.6	7.5	5.8	3.7	4.8	5.3	
DEPTH=	1.4	3.1	5.1	7.6	6.1	4.1	2.1	3.1	3.8	

*SECNO 1.180

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9885.0 10375.0 TYPE= 1 TARGET= 490.000

1.180	12.44	1692.44	1691.02	1691.48	1693.54	1.10	3.78	.05	1684.00
17136.0	1159.4	10462.5	5514.1	226.0	1032.9	1232.8	278.8	49.9	1684.00
.18	5.13	10.13	4.47	.070	.060	.070	.000	1680.00	9885.00
.006705	500.	500.	350.	2	11	0	.00	490.00	10375.00

FLOW DISTRIBUTION FOR SECNO= 1.18 CWSEL= 1692.44

STA=	9885.	9899.	9913.	9927.	9937.	10029.	10063.	10104.	10199.	10375.
PER Q=	.3	1.1	2.4	2.9	61.1	9.9	7.0	7.5	7.8	
AREA=	23.5	48.6	78.5	75.4	1032.9	255.5	222.2	324.7	430.4	
VEL=	2.4	3.9	5.3	6.5	10.1	6.6	5.4	4.0	3.1	
DEPTH=	1.7	3.4	5.4	7.4	11.3	7.4	5.4	3.4	2.4	

*SECNO 1.270

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9880.0 10290.0 TYPE= 1 TARGET= 410.000

1.270	11.48	1695.48	1692.25	1695.18	1696.07	.59	2.48	.05	1688.00
17136.0	1685.1	7254.6	8196.2	366.1	963.4	1665.6	309.1	54.9	1686.00
.21	4.60	7.53	4.92	.070	.060	.070	.000	1684.00	9880.00
.004166	450.	460.	500.	3	23	0	.00	410.00	10290.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.27 CWSEL= 1695.48

STA=	9880.	9885.	9937.	10031.	10121.	10200.	10280.	10290.
PER Q=	.4	9.4	42.3	25.2	14.3	7.8	.5	
AREA=	26.7	339.4	963.4	758.3	515.7	357.6	34.1	
VEL=	2.6	4.8	7.5	5.7	4.8	3.7	2.6	
DEPTH=	5.4	6.5	10.3	8.5	6.5	4.5	3.4	

CCHV= .300 CEHV= .500
*SECNO 1.370

3470 ENCROACHMENT STATIONS= 9560.0 10052.0 TYPE= 1 TARGET= 492.000

1.370	9.81	1697.81	1696.48	1697.50	1698.67	.87	2.46	.14	1692.00
17136.0	9013.6	7844.9	277.6	1755.5	823.1	65.4	337.8	59.4	1692.00
.22	5.13	9.53	4.24	.070	.055	.070	.000	1688.00	9560.00
.007371	400.	500.	440.	2	14	0	.00	492.00	10052.00

FLOW DISTRIBUTION FOR SECNO= 1.37 CWSEL= 1697.81

STA=	9560.	9580.	9932.	10030.	10038.	10046.	10052.
PER Q=	1.3	51.3	45.8	1.1	.5	.1	
AREA=	63.4	1692.0	823.1	37.0	22.1	6.3	
VEL=	3.6	5.2	9.5	5.1	3.6	1.8	
DEPTH=	3.2	4.8	8.4	4.8	2.8	1.0	

CCHV= .100 CEHV= .300
*SECNO 1.470

3470 ENCROACHMENT STATIONS= 9570.0 10060.0 TYPE= 1 TARGET= 490.000

1.470	11.16	1701.16	1699.68	1701.17	1701.98	.82	3.30	.00	1694.00
17136.0	9673.8	6853.4	608.9	1984.5	697.6	130.1	368.7	65.0	1694.00
.24	4.87	9.82	4.68	.070	.055	.070	.000	1690.00	9570.00
.006053	490.	500.	520.	2	6	0	.00	490.00	10060.00

FLOW DISTRIBUTION FOR SECNO= 1.47 CWSEL= 1701.16

STA=	9570.	9580.	9594.	9596.	9801.	9912.	9964.	10032.	10043.	10057.	10060.
PER Q=	1.0	2.8	.5	30.3	11.4	10.5	40.0	2.0	1.4	.1	
AREA=	45.6	86.2	14.7	1053.6	460.2	324.2	697.6	62.3	58.1	9.7	
VEL=	3.6	5.5	6.1	4.9	4.3	5.5	9.8	5.5	4.2	2.3	
DEPTH=	4.6	6.1	7.1	5.1	4.1	6.1	10.3	6.1	4.1	2.8	

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 1.560

3470 ENCROACHMENT STATIONS=     9610.0   10057.0  TYPE=      1  TARGET=      447.000
     1.560     12.04   1704.04   1702.96   1703.88   1705.12      1.08      3.06       .08   1698.00
   17136.0    8745.5    8150.8     239.7    1638.9     757.9      62.4     394.9      69.6   1698.00
       .26      5.34     10.75      3.84      .070      .055      .070      .000   1692.00   9610.00
   .007819      400.      500.      540.         2         6         0       .00    447.00  10057.00


FLOW DISTRIBUTION FOR SECNO=      1.56          CWSEL=   1704.04

STA=    9610.    9664.    9690.    9951.   10029.   10034.   10039.   10057.
  PER Q=      5.8      2.9     42.3     47.6       .8       .4       .2
   AREA=    218.9    104.4   1315.6    757.9     26.5     16.1     19.7
    VEL=      4.5      4.8      5.5     10.8      5.3      3.8      2.0
  DEPTH=      4.0      4.0      5.0      9.8      5.0      3.0      1.1

*SECNO 1.600

3470 ENCROACHMENT STATIONS=     9610.0   10049.0  TYPE=      1  TARGET=      439.000
     1.600     13.49   1705.49   1703.41   1705.16   1706.28       .79      1.13       .03   1696.00
   17136.0   10173.9    6561.3     400.8    2058.8     677.8      96.8     406.3      71.5   1696.00
       .27      4.94      9.68      4.14      .070      .055      .070      .000   1692.00   9610.00
   .004882      190.      180.      180.         2        10         0       .00    439.00  10049.00


FLOW DISTRIBUTION FOR SECNO=      1.60          CWSEL=   1705.49

STA=    9610.    9799.    9907.    9960.   10017.   10021.   10025.   10028.   10031.   10049.
  PER Q=     22.2     21.1     16.1     38.3      1.1       .7       .3       .1       .1
   AREA=    911.0    701.1    446.7    677.8     33.3     23.8     15.0      8.2     16.4
    VEL=      4.2      5.2      6.2      9.7      5.7      4.7      3.6      2.5      1.4
  DEPTH=      4.8      6.5      8.5     11.8      8.5      6.5      4.5      2.5       .9

CCHV=     .300 CEHV=     .500
*SECNO 1.660

3470 ENCROACHMENT STATIONS=     9860.0   10250.0  TYPE=      1  TARGET=      390.000
     1.660     10.87   1706.87   1703.94   1706.48   1707.59       .72      1.29       .02   1700.00
   17136.0    1689.1    6688.4    8758.5     418.9     788.4    1536.9     423.5      74.1   1700.00
       .28      4.03      8.48      5.70      .070      .055      .070      .000   1696.00   9860.00
   .004872      300.      250.      240.         2        14         0       .00    390.00  10250.00
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      1.66          CWSEL=   1706.87

STA=    9860.    9932.    9952.   10034.   10102.   10113.   10119.   10190.   10198.   10205.   10213.   10237.   10250.
  PER Q=      6.5      3.4     39.0     14.6      2.8      1.9     23.4      2.7      2.0      1.2      2.0       .5
   AREA=    298.7    120.3    788.4    468.4     82.7     51.9    630.1     72.1     60.3     44.9     93.6     32.9
    VEL=      3.7      4.8      8.5      5.4      5.8      6.4      6.4      6.4      5.7      4.7      3.6      2.5
  DEPTH=      4.2      5.9      9.6      6.9      7.9      8.9      8.9      8.9      7.9      5.9      3.9      2.6

CCHV=     .100 CEHV=     .300
*SECNO 1.750

3470 ENCROACHMENT STATIONS=     9953.0   10321.0  TYPE=      1  TARGET=      368.000
     1.750     11.45   1709.45   1707.69   1709.30   1710.56      1.11      2.86       .12   1702.00
   17136.0     284.9   10304.2    6546.9      62.7    1021.6    1264.6     453.3      78.5   1702.00
       .29      4.54     10.09      5.18      .070      .055      .070      .000   1698.00   9953.00
   .006564      480.      500.      520.         2        15         0       .00    368.00  10321.00


FLOW DISTRIBUTION FOR SECNO=      1.75          CWSEL=   1709.45

STA=    9953.    9956.    9961.    9966.    9970.   10072.   10151.   10321.   10321.
  PER Q=       .0       .2       .5       .9     60.1     17.7     20.5       .0
   AREA=      2.8     11.4     20.1     28.4   1021.6    509.9    753.8      1.0
    VEL=      1.4      3.0      4.4      5.6     10.1      6.0      4.7       .7
  DEPTH=       .8      2.5      4.5      6.5     10.0      6.5      4.5      3.4

*SECNO 1.810

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9947.0   10410.0  TYPE=      1  TARGET=      463.000
     1.810     11.39   1711.39   1708.75   1711.15   1711.96       .58      1.34       .05   1704.00
   17136.0     257.1    7402.6    9476.3      72.3     954.1    2139.3     469.9      80.9   1704.00
       .31      3.56      7.76      4.43      .070      .055      .070      .000   1700.00   9947.00
   .003855      300.      300.      240.         2        14         0       .00    463.00  10410.00


FLOW DISTRIBUTION FOR SECNO=      1.81          CWSEL=   1711.39
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9947.	9950.	9955.	9960.	9966.	10061.	10188.	10207.	10298.	10328.	10351.	10410.
PER Q=	.0	.2	.5	.9	43.2	21.5	2.4	15.5	6.4	3.9	5.7	
AREA=	2.4	12.6	23.3	34.0	954.1	813.5	100.4	584.2	218.5	146.1	276.6	
VEL=	1.1	2.3	3.4	4.3	7.8	4.5	4.1	4.5	5.0	4.5	3.5	
DEPTH=	.9	2.4	4.4	6.4	10.0	6.4	5.4	6.4	7.4	6.4	4.7	

*SECNO 1.850

3470 ENCROACHMENT STATIONS= 9819.0 10400.0 TYPE= 1 TARGET= 581.000

1.850	12.12	1712.12	1709.58	1711.91	1712.59	.48	.62	.01	1706.00
17136.0	1570.2	9128.0	6437.8	442.5	1344.1	1740.4	482.8	82.9	1706.00
.32	3.55	6.79	3.70	.070	.055	.070	.000	1700.00	9819.00
.003383	210.	190.	150.	2	10	0	.00	581.00	10400.00

FLOW DISTRIBUTION FOR SECNO= 1.85 CWSEL= 1712.12

STA=	9819.	9828.	9836.	9916.	10065.	10130.	10187.	10295.	10368.	10400.
PER Q=	.1	.4	8.7	53.3	7.1	4.3	11.8	10.8	3.5	
AREA=	10.0	25.9	406.6	1344.1	332.9	235.0	551.4	447.9	173.2	
VEL=	1.3	2.6	3.7	6.8	3.7	3.2	3.7	4.1	3.5	
DEPTH=	1.1	3.1	5.1	9.0	5.1	4.1	5.1	6.1	5.4	

*SECNO 1.880

3470 ENCROACHMENT STATIONS= 9771.0 10410.0 TYPE= 1 TARGET= 639.000

1.880	10.81	1712.91	1711.17	1712.76	1713.48	.57	.86	.03	1704.00
17136.0	5206.7	4621.0	7308.3	1092.8	512.1	1704.8	499.6	86.0	1704.00
.33	4.76	9.02	4.29	.070	.055	.070	.000	1702.10	9771.00
.005047	190.	200.	230.	2	14	0	.00	639.00	10410.00

FLOW DISTRIBUTION FOR SECNO= 1.88 CWSEL= 1712.91

STA=	9771.	9890.	9950.	9975.	10025.	10040.	10060.	10210.	10300.	10340.	10370.	10390.	10410.
PER Q=	13.3	10.2	6.9	27.0	4.1	3.4	8.7	7.7	6.8	6.6	3.4	2.0	
AREA=	540.4	354.7	197.8	512.1	118.7	118.2	461.7	352.0	236.5	207.3	118.2	92.1	
VEL=	4.2	4.9	6.0	9.0	6.0	4.9	3.2	3.7	4.9	5.5	4.9	3.7	
DEPTH=	4.5	5.9	7.9	10.2	7.9	5.9	3.1	3.9	5.9	6.9	5.9	4.6	

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.000

3470 ENCROACHMENT STATIONS= 9969.0 10760.0 TYPE= 1 TARGET= 791.000

2.000	6.62	1715.12	1713.78	1715.00	1715.69	.57	2.21	.00	1710.00
17136.0	125.6	3881.0	13129.3	33.7	452.0	2561.6	523.4	90.9	1709.00
.34	3.73	8.59	5.13	.070	.055	.070	.000	1708.50	9969.00
.008435	550.	490.	230.	2	8	0	.00	791.00	10760.00

FLOW DISTRIBUTION FOR SECNO= 2.00 CWSEL= 1715.12

STA=	9969.	9980.	10050.	10090.	10115.	10150.	10360.	10535.	10590.	10610.	10675.	10700.	10755.
PER Q=	.7	22.6	10.0	5.4	4.2	9.0	7.5	6.6	4.3	17.3	5.4	6.6	
AREA=	33.7	452.0	254.7	146.7	144.1	465.7	388.1	226.5	117.4	430.2	146.7	226.5	
VEL=	3.7	8.6	6.7	6.3	5.0	3.3	3.3	5.0	6.3	6.9	6.3	5.0	
DEPTH=	3.1	6.5	6.4	5.9	4.1	2.2	2.2	4.1	5.9	6.6	5.9	4.1	

STA=	10755.	10760.
PER Q=	.3	
AREA=	15.1	
VEL=	3.0	
DEPTH=	3.0	

NO 2.080

3470 ENCROACHMENT STATIONS= 9970.0 10620.0 TYPE= 1 TARGET= 650.000

2.080	8.00	1718.00	1716.78	1717.94	1718.75	.75	3.01	.05	1716.00
17136.0	3.1	4822.8	12310.1	1.8	571.9	1968.4	542.7	95.7	1716.00
.36	1.72	8.43	6.25	.070	.055	.070	.000	1710.00	9970.00
.010988	440.	440.	270.	2	5	0	.00	650.00	10620.00

FLOW DISTRIBUTION FOR SECNO= 2.08 CWSEL= 1718.00

STA=	9970.	9971.	10080.	10201.	10300.	10360.	10450.	10490.	10510.	10545.	10580.	10620.
PER Q=	.0	28.1	3.1	2.5	4.9	17.1	13.3	8.3	11.6	6.6	4.3	
AREA=	1.8	571.9	180.8	149.5	180.3	450.4	280.2	160.1	245.2	175.2	146.8	
VEL=	1.7	8.4	2.9	2.9	4.6	6.5	8.1	8.9	8.1	6.5	5.0	
DEPTH=	1.7	5.2	1.5	1.5	3.0	5.0	7.0	8.0	7.0	5.0	3.7	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.170

3470 ENCROACHMENT STATIONS= 9834.0 10285.0 TYPE= 1 TARGET= 451.000

2.170	7.84	1721.84	1720.06	1721.61	1722.67	.83	3.90	.03	1716.00
17136.0	3088.5	7290.7	6756.7	555.9	801.8	1186.7	566.8	100.8	1716.00
.37	5.56	9.09	5.69	.070	.055	.070	.000	1714.00	9834.00
.007814	500.	520.	350.	2	19	0	.00	451.00	10285.00

FLOW DISTRIBUTION FOR SECNO= 2.17 CWSEL= 1721.84

STA=	9834.	9861.	9890.	9892.	9948.	10056.	10137.	10200.	10234.	10285.
PER Q=	1.6	4.3	.5	11.6	42.5	16.8	13.0	5.2	4.4	
AREA=	78.2	136.1	14.8	326.8	801.8	472.6	366.1	167.5	180.6	
VEL=	3.6	5.4	6.1	6.1	9.1	6.1	6.1	5.4	4.2	
DEPTH=	2.8	4.8	5.8	5.8	7.4	5.8	5.8	4.8	3.6	

*SECNO 2.240

3470 ENCROACHMENT STATIONS= 9850.0 10155.0 TYPE= 1 TARGET= 305.000

2.240	10.56	1724.56	1722.88	1724.34	1725.86	1.30	3.05	.14	1718.00
17136.0	2884.9	11052.4	3198.6	491.2	1048.5	544.3	587.2	104.1	1718.00
.38	5.87	10.54	5.88	.070	.055	.070	.000	1714.00	9850.00
.008106	380.	380.	390.	2	8	0	.00	305.00	10155.00

FLOW DISTRIBUTION FOR SECNO= 2.24 CWSEL= 1724.56

STA=	9850.	9855.	9940.	10055.	10149.	10155.
PER Q=	.5	16.4	64.5	18.1	.6	
AREA=	23.4	467.8	1048.5	517.3	27.1	
VEL=	3.5	6.0	10.5	6.0	3.6	
DEPTH=	4.4	5.6	9.1	5.6	4.2	

*SECNO 2.330

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9830.0 10042.0 TYPE= 1 TARGET= 212.000

2.330	11.13	1728.13	1726.31	1727.98	1729.99	1.86	3.96	.17	1720.00
17136.0	5958.8	10943.6	233.6	780.6	878.5	49.6	606.8	106.8	1720.00
.40	7.63	12.46	4.71	.070	.055	.070	.000	1717.00	9830.00
.009588	450.	450.	450.	1	15	0	.00	212.00	10042.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.33 CWSEL= 1728.13

STA=	9830.	9840.	9870.	9890.	9945.	10030.	10042.
PER Q=	.9	5.6	6.4	22.0	63.9	1.4	
AREA=	36.4	154.1	142.7	447.4	878.5	49.6	
VEL=	4.1	6.2	7.7	8.4	12.5	4.7	
DEPTH=	3.6	5.1	7.1	8.1	10.3	4.1	

*SECNO 2.400

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9800.0 10047.0 TYPE= 1 TARGET= 247.000

2.400	13.26	1731.26	1727.30	1731.18	1732.28	1.03	2.21	.08	1718.00
17136.0	10631.1	5624.8	880.1	1586.5	530.3	179.8	621.7	108.5	1718.00
.41	6.70	10.61	4.90	.070	.055	.070	.000	1718.00	9800.00
.004910	300.	360.	370.	2	15	0	.00	247.00	10047.00

FLOW DISTRIBUTION FOR SECNO= 2.40 CWSEL= 1731.26

	9800.	9840.	9890.	9940.	9980.	10020.	10047.
ER Q=	3.8	14.6	21.0	22.6	32.8	5.1	
AREA=	170.3	412.9	512.9	490.3	530.3	179.8	
VEL=	3.8	6.1	7.0	7.9	10.6	4.9	
DEPTH=	4.3	8.3	10.3	12.3	13.3	6.7	

CCHV= .300 CEHV= .500
*SECNO 2.470

3470 ENCROACHMENT STATIONS= 9940.0 10310.0 TYPE= 1 TARGET= 370.000

2.470	13.40	1733.40	1729.82	1733.38	1734.02	.62	1.61	.12	1724.00
17136.0	426.2	6509.8	10200.0	109.6	792.1	2128.8	646.4	111.3	1724.00
.43	3.89	8.22	4.79	.070	.055	.070	.000	1720.00	9940.00
.003405	340.	400.	450.	2	19	0	.00	370.00	10310.00

FLOW DISTRIBUTION FOR SECNO= 2.47 CWSEL= 1733.40

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9940.	9943.	9947.	9952.	9957.	9962.	10028.	10090.	10101.	10110.	10200.	10301.	10310.
PER Q=	.0	.1	.4	.7	1.2	38.0	15.6	2.1	2.3	22.6	16.0	.8	
AREA=	3.3	11.8	21.6	31.5	41.4	792.1	523.2	77.9	79.8	758.2	641.6	48.1	
VEL=	1.1	2.1	3.2	4.1	4.9	8.2	5.1	4.7	5.0	5.1	4.3	2.8	
DEPTH=	1.3	2.4	4.4	6.4	8.4	12.1	8.4	7.4	8.4	8.4	6.4	5.2	

CCHV= .100 CEHV= .300

*SECNO 2.520

3470 ENCROACHMENT STATIONS= 9850.0 10385.0 TYPE= 1 TARGET= 535.000

2.520	12.38	1734.38	1731.27	1734.29	1734.80	.43	.77	.02	1726.00
17136.0	2496.9	6033.9	8605.2	641.7	842.1	2259.9	666.2	114.0	1726.00
.44	3.89	7.17	3.81	.070	.055	.070	.000	1722.00	9850.00
.002689	270.	260.	250.	2	18	0	.00	535.00	10385.00

FLOW DISTRIBUTION FOR SECNO= 2.52 CWSEL= 1734.38

STA=	9850.	9866.	9876.	9886.	9958.	10029.	10121.	10212.	10215.	10279.	10317.	10364.	10385.
PER Q=	.3	.5	1.1	12.8	35.2	16.5	12.8	.5	9.0	5.3	5.0	1.1	
AREA=	28.5	34.1	54.3	524.9	842.1	679.3	579.8	22.8	408.3	238.8	252.5	78.3	
VEL=	1.5	2.4	3.3	4.2	7.2	4.2	3.8	3.8	3.8	3.8	3.4	2.4	
DEPTH=	1.8	3.4	5.4	7.4	11.8	7.4	6.4	6.4	6.4	6.4	5.4	3.7	

*SECNO 2.600

3470 ENCROACHMENT STATIONS= 9800.0 10450.0 TYPE= 1 TARGET= 650.000

****

DOWNSTREAM PARADISE WASH CONFLUENCE

****

2.600	11.72	1735.72	1733.88	1735.66	1736.27	.55	1.43	.04	1730.00
17136.0	1746.7	6962.2	8427.1	539.0	866.0	2067.0	702.2	119.9	1728.00
.46	3.24	8.04	4.08	.070	.055	.070	.000	1724.00	9800.00
.004096	390.	430.	450.	2	14	0	.00	650.00	10450.00

FLOW DISTRIBUTION FOR SECNO= 2.60 CWSEL= 1735.72

STA=	9800.	9820.	9935.	9945.	10030.	10140.	10265.	10335.	10370.	10390.	10440.	10450.
PER Q=	1.0	8.1	1.0	40.6	20.9	13.2	5.0	3.7	2.9	3.5	.1	
AREA=	64.3	427.5	47.2	866.0	738.9	589.7	260.2	165.1	114.3	185.9	12.8	
VEL=	2.7	3.3	3.8	8.0	4.8	3.8	3.3	3.8	4.3	3.3	1.5	
DEPTH=	3.2	3.7	4.7	10.2	6.7	4.7	3.7	4.7	5.7	3.7	1.3	

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .600 CEHV=     .900
*SECNO 2.730

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .61


3470 ENCROACHMENT STATIONS=     9787.0   10080.0  TYPE=      1  TARGET=      293.000
     2.730     10.99   1738.99   1737.70   1738.95   1740.29      1.30      3.35       .67   1732.00
   13541.0    4749.7    7343.9    1447.4     859.1     649.4     246.9     739.0     126.4   1732.00
       .48      5.53     11.31      5.86      .065      .050      .065      .000   1728.00   9787.00
   .006809      900.      750.      350.         2        12         0       .00    293.00  10080.00


FLOW DISTRIBUTION FOR SECNO=      2.73          CWSEL=   1738.99

STA=    9787.    9812.    9886.    9972.   10036.   10071.   10080.
  PER Q=      1.1     10.3     23.7     54.2      9.5      1.1
   AREA=     48.6    294.3    516.1    649.4    208.1     38.8
    VEL=      2.9      4.7      6.2     11.3      6.2      4.0
   DPTH=      2.0      4.0      6.0     10.1      6.0      4.4

1490 NH CARD USED
*SECNO 2.820

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.98


3470 ENCROACHMENT STATIONS=     9530.0   10050.0  TYPE=      1  TARGET=      520.000
       ************************************************************************
          THIS IS THE START OF THE DESERT HILLS WASH AND COINCIDES WITH
          SECTION 0.04.     Q100=13,541 CFS
          FLOW IS FROM APACHE WASH AND DESERT HILLS WASH
       ************************************************************************
    2.820     12.91   1741.91   1738.20   1741.74   1742.16       .25      1.24       .63   1736.00
   13541.0    3222.8    2312.5    8005.7    1057.5     459.4    1970.1     762.2     129.8   1736.00
       .51      3.05      5.03      4.06      .065      .050      .056      .000   1729.00   9530.00
   .001730      200.      480.      500.         2        10         0       .00    520.00  10050.00
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.82 CWSEL= 1741.91

STA=	9530.	9710.	9765.	9950.	9980.	9990.	10000.	10010.	10025.	10050.
PER Q=	23.8	17.1	25.0	6.8	4.0	6.0	6.0	6.1	5.1	
AREA=	1057.5	459.4	1091.2	206.9	99.0	124.0	124.0	148.5	176.6	
VEL=	3.0	5.0	3.1	4.5	5.4	6.6	6.6	5.6	3.9	
DEPTH=	5.9	8.4	5.9	6.9	9.9	12.4	12.4	9.9	7.1	

1490 NH CARD USED
*SECNO 2.870

3470 ENCROACHMENT STATIONS= 9400.0 10040.0 TYPE= 1 TARGET= 640.000
****
THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.13
****

2.870	10.64	1742.64	1738.98	1742.40	1742.85	.21	.66	.03	1738.00
13541.0	1015.2	2521.0	10004.8	479.0	637.8	2685.5	796.7	135.2	1738.00
.54	2.12	3.95	3.73	.065	.050	.054	.000	1732.00	9400.00
.001449	240.	275.	500.	2	11	0	.00	640.00	10040.00

FLOW DISTRIBUTION FOR SECNO= 2.87 CWSEL= 1742.64

STA=	9400.	9523.	9620.	9701.	9774.	9800.	9922.	9984.	10016.	10028.	10040.
PER Q=	7.5	18.6	6.7	6.1	3.0	22.9	15.5	13.2	4.4	2.2	
AREA=	479.0	637.8	374.0	341.2	147.9	805.2	477.6	332.2	116.9	90.5	
VEL=	2.1	4.0	2.4	2.4	2.8	3.8	4.4	5.4	5.1	3.2	
DEPTH=	3.9	6.6	4.6	4.6	5.6	6.6	7.6	10.4	9.6	7.7	

1490 NH CARD USED
*SECNO 2.900

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9530.0 10300.0 TYPE= 1 TARGET= 770.000
****
THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.19
****

2.900	9.94	1742.94	1740.52	1742.63	1743.23	.29	.31	.07	1738.00
13541.0	1435.5	1954.9	10150.6	476.7	322.5	2478.3	809.6	137.7	1738.00
.55	3.01	6.06	4.10	.065	.050	.055	.000	1733.00	9530.00
.002707	175.	190.	150.	2	13	0	.00	723.56	10300.00

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    L-BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      R-BANK ELEV
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


FLOW DISTRIBUTION FOR SECNO=      2.90          CWSEL=   1742.94

STA=    9530.    9645.    9685.    9765.    9850.    9965.    9980.   10000.   10020.   10140.   10190.   10300.
  PER Q=     10.6     14.4      6.9      4.5      9.9      4.2      9.6      7.8     26.7      4.3      1.0
   AREA=    476.7    322.5    315.1    249.8    452.9    104.1    188.8    166.3    712.6    196.9     91.8
    VEL=      3.0      6.1      3.0      2.4      3.0      5.5      6.9      6.3      5.1      3.0      1.5
  DEPTH=      4.1      8.1      3.9      2.9      3.9      6.9      9.4      8.3      5.9      3.9       .8

CCHV=     .600 CEHV=     .900
1490 NH CARD USED
*SECNO 2.920

3470 ENCROACHMENT STATIONS=     9350.0   10190.0  TYPE=      1  TARGET=      840.000
       ************************************************************************
          THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.22
       ************************************************************************
    2.920      9.62   1743.62   1741.75   1743.23   1743.91       .29       .68       .00   1740.00
  13541.0     384.2    2114.2   11042.6     156.8     358.8    2772.7     826.8     141.8   1740.00
      .57      2.45      5.89      3.98      .065      .050      .056      .000   1734.00   9350.00
 .003305      150.      140.      250.         2        14         0       .00    840.00  10190.00


 DISTRIBUTION FOR SECNO=      2.92          CWSEL=   1743.62

STA=    9350.    9410.    9465.    9600.    9880.    9975.    9990.   10000.   10025.   10100.   10190.
  PER Q=      2.8     15.6      8.7     18.0     15.3      4.4      4.5     11.4     13.4      5.8
   AREA=    156.8    358.8    420.4    872.0    438.3     99.2     86.1    215.4    366.1    275.3
    VEL=      2.4      5.9      2.8      2.8      4.7      6.0      7.1      7.2      5.0      2.9
  DEPTH=      2.6      6.5      3.1      3.1      4.6      6.6      8.6      8.6      4.9      3.1

1490 NH CARD USED
*SECNO 2.970

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     8995.5    9365.0  TYPE=      1  TARGET=      369.500
       ************************************************************************
          THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.31
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    ************************************************************************
     2.970      8.99   1744.99   1744.99   1744.91   1746.21      1.21      1.36       .83   1744.00
    7534.0       4.4    3967.6    3562.0       2.4     354.5     702.7     840.3     145.6   1742.00
       .58      1.82     11.19      5.07      .065      .050      .065      .000   1736.00   8995.50
   .015159      270.      270.      270.         0        10         0       .00    369.50   9365.00


FLOW DISTRIBUTION FOR SECNO=      2.97          CWSEL=   1744.99

STA=    8996.    9000.    9065.    9170.    9365.
  PER Q=       .1     52.7     24.4     22.9
   AREA=      2.4    354.5    314.2    388.5
    VEL=      1.8     11.2      5.8      4.4
  DEPTH=       .5      5.5      3.0      2.0

CCHV=     .600 CEHV=     .900
*SECNO 3.070
3280 CROSS SECTION      3.07 EXTENDED      1.71 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.96


3470 ENCROACHMENT STATIONS=     9740.0   10150.0  TYPE=      1  TARGET=      410.000
      ************************************************************************
         THIS SECTION COINCIDES WITH DESERT HILLS WASH SECTION 0.40
         BEGINNING OF SPLIT FLOW REACH FROM APACHE WASH TO DESERT HILLS WASH
         Q100=7,328 CFS
      ************************************************************************
    3.070      7.71   1749.71   1748.18   1749.40   1750.09       .38      3.39       .50   1744.00
   7534.0    3447.5    2477.3    1609.2     957.2     353.7     456.4     856.1     149.8   1744.00
      .61      3.60      7.00      3.53      .065      .050      .065      .000   1742.00   9740.00
  .003940      540.      520.      420.         4        18         0       .00    410.00  10150.00


FLOW DISTRIBUTION FOR SECNO=      3.07          CWSEL=   1749.71

STA=    9740.    9913.    9980.   10028.   10081.   10150.
  PER Q=     28.8     16.9     32.9     13.2      8.1
   AREA=    640.3    316.8    353.7    247.5    208.9
    VEL=      3.4      4.0      7.0      4.0      2.9
  DEPTH=      3.7      4.7      7.3      4.7      3.0
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .600 CEHV=     .900
*SECNO 3.130
3280 CROSS SECTION      3.13 EXTENDED       .64 FEET


3470 ENCROACHMENT STATIONS=     9600.0   10068.0  TYPE=      1  TARGET=      468.000
      ************************************************************************
         FLOW SPILLS OVER INTO DESERT HILLS WASH AT THIS SECTION
         Q100=7,340 CFS
      ************************************************************************
    3.130      8.83   1750.83   1749.90   1750.48   1751.37       .54      1.14       .14   1746.00
   7534.0    4435.5    2907.4     191.2    1180.7     352.5      73.3     865.1     152.1   1748.00
      .62      3.76      8.25      2.61      .065      .050      .065      .000   1742.00   9600.00
  .005835     200.      280.      300.         4         8         0       .00    468.00  10068.00


FLOW DISTRIBUTION FOR SECNO=      3.13          CWSEL=   1750.83

STA=    9600.    9655.    9675.    9870.    9978.   10028.   10068.   10068.
  PER Q=      7.0      2.7     25.7     23.5     38.6      2.5       .0
   AREA=    156.2     57.3    553.3    413.9    352.5     73.0       .3
    VEL=      3.4      3.5      3.5      4.3      8.2      2.6       .7
    DTH=      2.8      2.8      2.8      3.8      7.1      1.8       .8

*SECNO 3.210
3280 CROSS SECTION      3.21 EXTENDED       .59 FEET


3470 ENCROACHMENT STATIONS=     9780.0   10170.0  TYPE=      1  TARGET=      390.000
      ************************************************************************
         FLOW SPILLS OVER INTO DESERT HILLS WASH AT THIS SECTION
         Q100=7,529 CFS
      ************************************************************************
    3.210      6.70   1752.70   1751.83   1752.32   1753.40       .70      1.88       .14   1750.00
   7534.0    1210.3    5982.2     341.5     383.9     814.6      99.1     874.4     154.8   1750.00
      .63      3.15      7.34      3.44      .065      .050      .065      .000   1746.00   9780.00
  .007285     250.      310.      350.         2        14         0       .00    390.00  10170.00


FLOW DISTRIBUTION FOR SECNO=      3.21          CWSEL=   1752.70
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9780.    9900.    9965.   10130.   10170.
  PER Q=      9.8      6.2     79.4      4.5
   AREA=    241.2    142.6    814.6     99.1
    VEL=      3.1      3.3      7.3      3.4
  DEPTH=      2.0      2.2      4.9      2.5

*SECNO 3.320

3470 ENCROACHMENT STATIONS=     9800.0   10175.0  TYPE=      1  TARGET=      375.000
       ************************************************************************
           END OF SPLIT FLOW REACH FROM APACHE WASH TO DESERT HILLS WASH
           Q100=7,534 CFS
       ************************************************************************
    3.320      7.07   1757.07   1756.40   1756.42   1757.77       .70      4.37       .00   1754.00
   7534.0    2141.1    3276.0    2116.9     476.2     372.1     474.9     890.7     159.5   1754.00
      .65      4.50      8.81      4.46      .065      .050      .065      .000   1750.00   9800.00
  .008756      510.      560.      560.         3        10         0       .00    375.00  10175.00


FLOW DISTRIBUTION FOR SECNO=      3.32          CWSEL=   1757.07

STA=    9800.    9801.    9955.   10020.   10175.
  PER Q=       .1     28.3     43.5     28.1
   AREA=      3.7    472.4    372.1    474.9
    VEL=      2.0      4.5      8.8      4.5
  DEPTH=      3.1      3.1      5.7      3.1

*SECNO 3.400

3470 ENCROACHMENT STATIONS=     9800.0   10140.0  TYPE=      1  TARGET=      340.000
    3.400      8.78   1760.78   1759.80   1759.99   1761.46       .68      3.68       .01   1756.00
   7534.0    3331.5    2848.7    1353.8     698.8     315.0     335.5     905.1     163.3   1756.00
      .68      4.77      9.04      4.04      .065      .050      .065      .000   1752.00   9800.00
  .007085      490.      470.      430.         1         8         0       .00    340.00  10140.00


FLOW DISTRIBUTION FOR SECNO=      3.40          CWSEL=   1760.78

STA=    9800.    9865.    9920.    9985.   10030.   10060.   10140.
  PER Q=      8.9     12.9     22.5     37.8      7.0     11.0
   AREA=    180.5    207.7    310.5    315.0    113.3    222.2
    VEL=      3.7      4.7      5.5      9.0      4.7      3.7
  DEPTH=      2.8      3.8      4.8      7.0      3.8      2.8
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
           QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME    VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE   XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 3.480
3280 CROSS SECTION      3.48 EXTENDED       .10 FEET


3470 ENCROACHMENT STATIONS=     9900.0   10170.0  TYPE=      1  TARGET=      270.000
     3.480      8.10   1764.10   1763.20   1763.34   1765.02       .92      3.35       .22   1760.00
    7534.0     763.1    2610.6    4160.3     198.9     248.8     693.3     916.8     166.2   1758.00
       .69      3.84     10.49      6.00      .065      .050      .065      .000   1756.00   9900.00
   .009039      360.      450.      435.         1        15         0       .00    270.00  10170.00


FLOW DISTRIBUTION FOR SECNO=      3.48          CWSEL=   1764.10

STA=    9900.    9911.    9966.    9985.   10019.   10111.   10170.
  PER Q=      1.0      5.4      3.7     34.7     40.0     15.2
   AREA=     23.9    114.7     60.2    248.8    468.3    224.9
    VEL=      3.2      3.6      4.6     10.5      6.4      5.1
  DEPTH=      2.1      2.1      3.1      7.4      5.1      3.8

*SECNO 3.520

3470 ENCROACHMENT STATIONS=     9900.0   10141.0  TYPE=      1  TARGET=      241.000
     3.520      9.81   1765.81   1764.95   1765.07   1766.83      1.02      1.72       .09   1760.00
    7534.0    1314.3    3200.0    3019.7     282.2     295.3     545.5     922.0     167.3   1760.00
       .70      4.66     10.83      5.54      .065      .050      .065      .000   1756.00   9900.00
   .008163      200.      200.      200.         2         8         0       .00    241.00  10141.00


FLOW DISTRIBUTION FOR SECNO=      3.52          CWSEL=   1765.81

STA=    9900.    9946.    9950.    9951.    9977.    9978.    9982.   10017.   10100.   10141.
  PER Q=      7.9       .9       .3      6.8       .1      1.4     42.5     31.2      8.8
   AREA=    140.9     14.0      4.2    101.9      1.8     19.4    295.3    400.2    145.3
    VEL=      4.2      5.0      5.0      5.0      5.0      5.5     10.8      5.9      4.6
  DEPTH=      3.1      3.8      3.8      3.8      3.8      4.8      8.4      4.8      3.6

*SECNO 3.600

3470 ENCROACHMENT STATIONS=     9891.0   10160.0  TYPE=      1  TARGET=      269.000
     3.600      9.18   1769.18   1767.48   1768.44   1769.75       .57      2.64       .27   1764.00
    7534.0    1519.1    2408.6    3606.3     370.7     288.4     753.9     934.5     169.8   1762.00
       .72      4.10      8.35      4.78      .065      .050      .065      .000   1760.00   9891.00
   .004807      400.      420.      450.         2        14         0       .00    269.00  10160.00
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      3.60          CWSEL=   1769.18

STA=    9891.    9891.    9980.   10014.   10085.   10160.
  PER Q=       .0     20.1     32.0     31.2     16.7
   AREA=      1.5    369.2    288.4    440.7    313.2
    VEL=       .9      4.1      8.4      5.3      4.0
  DEPTH=      3.2      4.2      8.4      6.2      4.2

*SECNO 3.650
3280 CROSS SECTION      3.65 EXTENDED       .50 FEET


3470 ENCROACHMENT STATIONS=     9900.0   10190.0  TYPE=      1  TARGET=      290.000
     3.650      8.50   1770.50   1768.39   1769.78   1770.94       .44      1.12       .08   1764.00
    7534.0    1389.4    2577.2    3567.4     350.3     357.7     879.3     943.6     171.5   1764.00
       .73      3.97      7.21      4.06      .065      .050      .065      .000   1762.00   9900.00
   .003759      250.      280.      260.         2        18         0       .00    290.00  10190.00


FLOW DISTRIBUTION FOR SECNO=      3.65          CWSEL=   1770.50

STA=    9900.    9970.   10015.   10190.
  PER Q=      18.4     34.2     47.4
   AREA=     350.3    357.7    879.3
    VEL=       4.0      7.2      4.1
  DEPTH=       5.0      7.9      5.0

*SECNO 3.750

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .60


3470 ENCROACHMENT STATIONS=     9960.0   10220.0  TYPE=      1  TARGET=      260.000
     3.750      9.39   1773.39   1772.50   1773.02   1774.35       .96      2.94       .46   1772.00
    7534.0      28.1    2964.0    4541.9      13.3     290.4     776.5     958.9     174.7   1768.00
       .75      2.12     10.21      5.85      .065      .050      .065      .000   1764.00   9960.00
   .010464      500.      500.      500.         2         5         0       .00    260.00  10220.00
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      3.75          CWSEL=   1773.39

STA=    9960.    9975.   10020.   10150.   10220.
  PER Q=       .4     39.3     47.4     12.9
   AREA=     13.3    290.4    570.2    206.4
    VEL=      2.1     10.2      6.3      4.7
  DEPTH=       .9      6.5      4.4      2.9

*SECNO 3.780
3280 CROSS SECTION      3.78 EXTENDED       .18 FEET


3470 ENCROACHMENT STATIONS=     9950.0   10226.0  TYPE=      1  TARGET=      276.000
     3.780      9.18   1775.18   1773.85   1774.46   1775.91       .73      1.43       .14   1774.00
    7534.0      68.7    4090.5    3374.8      33.4     504.9     677.4     963.3     175.7   1772.00
       .76      2.06      8.10      4.98      .065      .050      .065      .000   1766.00   9950.00
   .006878      170.      170.      170.         2        10         0       .00    276.00  10226.00


FLOW DISTRIBUTION FOR SECNO=      3.78          CWSEL=   1775.18

STA=    9950.    9978.   10061.   10120.   10142.   10151.   10155.   10163.   10226.   10226.
  PER Q=       .9     54.3     10.3      6.0      4.7      2.6      4.2     17.0       .0
   AREA=     33.4    504.9    189.1     92.6     55.8     27.9     50.1    260.6      1.3
    VEL=      2.1      8.1      4.1      4.9      6.3      7.1      6.3      4.9      1.0
  DEPTH=      1.2      6.1      3.2      4.2      6.2      7.2      6.2      4.2      3.2

*SECNO 3.860

3470 ENCROACHMENT STATIONS=     9950.0   10330.0  TYPE=      1  TARGET=      380.000
       ***********************************************************************
          Q100=7,213 CFS
       ***********************************************************************
     3.860      8.35   1778.35   1777.41   1778.23   1779.07       .72      3.16       .00   1776.00
    7213.0     212.1    3617.9    3382.9      66.7     422.4     753.7     976.1     179.2   1774.00
       .78      3.18      8.57      4.49      .065      .050      .065      .000   1770.00   9950.00
   .007488      360.      400.      490.         2        14         0       .00    380.00  10330.00


FLOW DISTRIBUTION FOR SECNO=      3.86          CWSEL=   1778.35
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9950.    9981.   10049.   10084.   10108.   10125.   10163.   10206.   10246.   10275.   10301.   10330.
  PER Q=     2.9     50.2     11.2      7.8      3.5      1.7       .2      1.8      6.0      8.2      6.4
   AREA=    66.7    422.4    153.5    106.3     57.1     51.2     15.0     53.8     98.2    112.5    106.1
    VEL=     3.2      8.6      5.3      5.3      4.4      2.4      1.0      2.4      4.4      5.3      4.4
  DEPTH=     2.2      6.2      4.4      4.4      3.4      1.4       .4      1.4      3.4      4.4      3.6

*SECNO 3.960

3470 ENCROACHMENT STATIONS=     9877.0   10433.0  TYPE=      1  TARGET=      556.000
     3.960      8.59   1782.59   1782.12   1782.42   1783.31       .72      4.23       .00   1782.00
    7213.0       2.7    5524.6    1685.7       2.3     730.3     524.9     990.1     184.3   1782.00
       .80      1.18      7.57      3.21      .065      .050      .065      .000   1774.00   9877.00
   .009709      490.      520.      460.         3         8         0       .00    556.00  10433.00


FLOW DISTRIBUTION FOR SECNO=      3.96          CWSEL=   1782.59

STA=    9877.    9883.   10057.   10180.   10410.   10418.   10423.   10433.
  PER Q=      .0     76.6      1.6     15.5      2.1      1.8      2.4
   AREA=     2.3    730.3     71.9    364.8     29.6     20.9     37.7
    VEL=     1.2      7.6      1.6      3.1      5.2      6.2      4.5
  DEPTH=      .4      4.2       .6      1.6      3.6      4.6      3.6

SECNO 4.050

3470 ENCROACHMENT STATIONS=     9968.0   10270.0  TYPE=      1  TARGET=      302.000
      ***********************************************************************
         BEGINNING OF EAST CHANNEL CAUSED BY FLOW SPLIT UPSTREAM OF
         CAREFREE HIGHWAY. TOTAL FLOW IN APACHE WASH Q100= 5347 CFS.
         TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1866 CFS.
      ***********************************************************************
     4.050      7.12   1786.12   1784.62   1786.02   1786.50       .38      2.99       .20 100000.00
    5347.0        .0    1815.4    3531.6        .0     286.9     870.0    1000.5     187.7   1782.00
       .82       .00      6.33      4.06      .000      .050      .065      .000   1779.00   9968.00
   .005413      400.      500.      285.         2        18         0       .00    302.00  10270.00


FLOW DISTRIBUTION FOR SECNO=      4.05          CWSEL=   1786.12

STA=    9968.   10025.   10200.   10270.
  PER Q=    34.0     58.3      7.7
   AREA=   286.9    721.4    148.6
    VEL=     6.3      4.3      2.8
  DEPTH=     5.0      4.1      2.1
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.110

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9975.0 10293.0 TYPE= 1 TARGET= 318.000

4.110	6.38	1788.38	1788.38	1788.38	1789.58	1.20	2.32	.73	1786.00
5347.0	13.8	2713.4	2619.9	4.6	239.8	529.7	1006.8	189.7	1784.00
.83	3.01	11.32	4.95	.065	.050	.065	.000	1782.00	9975.00
.014375	240.	250.	300.	0	15	0	.00	314.07	10289.07

FLOW DISTRIBUTION FOR SECNO= 4.11 CWSEL= 1788.38

STA=	9975.	9978.	10020.	10108.	10273.	10289.
PER Q=	.3	50.7	34.4	14.5	.1	
AREA=	4.5	239.8	297.9	228.8	3.0	
VEL=	3.1	11.3	6.2	3.4	.9	
DEPTH=	1.3	5.8	3.4	1.4	.2	

*SECNO 4.220

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.45

3470 ENCROACHMENT STATIONS= 9780.0 10082.0 TYPE= 1 TARGET= 302.000

4.220	6.67	1792.17	1790.81	1791.94	1792.65	.48	2.64	.43	1790.00
5347.0	3259.4	1950.5	137.1	722.6	274.2	63.5	1012.6	191.6	1790.00
.85	4.51	7.11	2.16	.065	.050	.065	.000	1785.50	9780.00
.006882	280.	280.	260.	2	15	0	.00	302.00	10082.00

FLOW DISTRIBUTION FOR SECNO= 4.22 CWSEL= 1792.17

STA=	9780.	9885.	9975.	10030.	10082.
PER Q=	39.2	21.8	36.5	2.6	
AREA=	437.5	285.0	274.2	63.5	
VEL=	4.8	4.1	7.1	2.2	
DEPTH=	4.2	3.2	5.0	1.2	

```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 4.230

3470 ENCROACHMENT STATIONS=     9830.0   10097.0  TYPE=      1  TARGET=      267.000
     4.230      7.10   1793.10   1791.53   1792.66   1793.60       .50       .93       .02   1790.00
    5347.0    2976.0    2038.6     332.4     642.0     282.1     119.9    1016.1     192.6   1790.00
       .85      4.64      7.23      2.77      .065      .050      .065      .000   1786.00   9830.00
   .006061      140.      150.      150.         3        15         0       .00    267.00  10097.00


FLOW DISTRIBUTION FOR SECNO=      4.23          CWSEL=   1793.10

STA=    9830.    9929.    9934.    9961.    9980.   10030.   10081.   10097.
  PER Q=     39.6      2.4      9.5      4.2     38.1      5.9       .3
   AREA=    447.1     24.2    111.8     58.9    282.1    107.4     12.5
    VEL=      4.7      5.3      4.6      3.8      7.2      2.9      1.5
  DEPTH=      4.5      5.1      4.1      3.1      5.6      2.1       .8

CCHV=     .100 CEHV=     .300
*SECNO 4.310

3301 HV CHANGED MORE THAN HVINS

MINIMUM SPECIFIC ENERGY
CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9920.0   10114.0  TYPE=      1  TARGET=      194.000
     4.310      8.13   1796.13   1796.13   1796.08   1797.78      1.65      3.71       .34   1792.00
    5347.0    1255.3    3246.8     845.0     206.8     261.1     174.7    1024.1     194.8   1792.00
       .87      6.07     12.43      4.84      .065      .050      .065      .000   1788.00   9920.00
   .014534      410.      420.      410.         0        11         0       .00    194.00  10114.00


FLOW DISTRIBUTION FOR SECNO=      4.31          CWSEL=   1796.13

STA=    9920.    9981.   10020.   10055.   10111.   10114.
  PER Q=     23.5     60.7     12.3      3.5       .0
   AREA=    206.8    261.1    111.1     63.2       .4
    VEL=      6.1     12.4      5.9      3.0       .6
  DEPTH=      3.4      6.7      3.1      1.1       .1
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.400

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.90

3470 ENCROACHMENT STATIONS= 9938.0 10249.0 TYPE= 1 TARGET= 311.000

4.400	8.65	1800.95	1799.21	1800.58	1801.35	.41	3.45	.12	1796.00
5347.0	420.0	1958.0	2969.0	139.1	284.2	770.8	1034.5	197.6	1796.00
.89	3.02	6.89	3.85	.065	.050	.065	.000	1792.30	9938.00
.004041	475.	510.	490.	3	10	0	.00	311.00	10249.00

FLOW DISTRIBUTION FOR SECNO= 4.40 CWSEL= 1800.95

STA=	9938.	9940.	9970.	9990.	10030.	10080.	10090.	10110.	10175.	10210.	10249.
PER Q=	.0	2.5	5.3	36.6	19.5	5.0	10.2	17.4	2.9	.5	
AREA=	1.6	58.5	79.0	284.2	247.5	58.0	116.0	256.7	68.2	24.4	
VEL=	1.0	2.3	3.6	6.9	4.2	4.6	4.7	3.6	2.3	1.1	
DEPTH=	.8	1.9	3.9	7.1	4.9	5.8	5.8	3.9	1.9	.6	

*SECNO 4.490

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3470 ENCROACHMENT STATIONS= 9910.0 10183.0 TYPE= 1 TARGET= 273.000

4.490	7.16	1803.16	1802.49	1803.25	1804.17	1.01	2.64	.18	1800.00
5347.0	307.7	4566.1	473.2	87.1	528.2	156.3	1044.7	200.7	1800.00
.91	3.53	8.65	3.03	.065	.050	.065	.000	1796.00	9910.00
.009118	490.	450.	450.	3	15	0	.00	273.00	10183.00

FLOW DISTRIBUTION FOR SECNO= 4.49 CWSEL= 1803.16

STA=	9910.	9917.	9955.	10054.	10105.	10183.
PER Q=	.1	5.6	85.4	7.6	1.3	
AREA=	4.7	82.3	528.2	110.9	45.4	
VEL=	1.7	3.6	8.6	3.6	1.5	
DEPTH=	.7	2.2	5.4	2.2	.6	

```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 4.560

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9944.0   10216.0  TYPE=      1  TARGET=      272.000
       ************************************************************************
          TOTAL FLOW IN APACHE WASH Q100= 5347 CFS.
          TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1866 CFS.
       ************************************************************************
    4.560      7.11   1806.11   1804.18   1806.08   1806.61       .50      2.38       .05   1804.00
   5347.0      28.6    2862.3    2456.1      16.7     428.0     589.4    1052.2     202.9   1800.00
      .93      1.71      6.69      4.17      .065      .050      .065      .000   1799.00   9944.00
  .004996      365.      365.      350.         2        19         0       .00    272.00  10216.00


FLOW DISTRIBUTION FOR SECNO=      4.56          CWSEL=   1806.11

STA=    9944.    9960.   10035.   10115.   10150.   10215.
  PER Q=       .5     53.5     36.6      7.0      2.3
   AREA=     16.6    428.0    408.6    108.8     72.0
    VEL=      1.7      6.7      4.8      3.4      1.7
    DPTH=     1.0      5.7      5.1      3.1      1.1

CCHV=     .300 CEHV=     .500
*SECNO 4.570
3280 CROSS SECTION      4.57 EXTENDED      2.03 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9910.0   10500.0  TYPE=      1  TARGET=      590.000
       ************************************************************************
          DOWN STREAM OF 3-10'X5'X54' CBC's WITH WINGWALLS AT CAREFREE
          HIGHWAY. TOTAL FLOW IN APACHE WASH Q100= 5463 CFS. TOTAL FLOW
          IN OVERFLOW CHANNEL Q100= 1750 CFS.
       ************************************************************************
    4.570      8.03   1808.03   1808.03   1808.03   1808.51       .48       .62       .01   1806.00
   5463.0     393.4    1997.7    3071.8     133.6     242.9     992.0    1055.0     203.9   1806.00
      .93      2.95      8.22      3.10      .065      .050      .065      .000   1800.00   9910.00
  .007183      110.      110.      100.         0        20         0       .00    590.00  10500.00
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      4.57         CWSEL=   1808.03

STA=    9910.    9950.    9980.   10011.   10220.   10500.
  PER Q=      3.7      3.5     36.6     24.1     32.1
   AREA=     72.7     60.9    242.9    424.0    568.0
    VEL=      2.8      3.1      8.2      3.1      3.1
  DEPTH=      1.8      2.0      7.8      2.0      2.0


SPECIAL CULVERT

SC  CUNO      CUNV      ENTLC     COFQ      RDLEN     RISE      SPAN      CULVLN    CHRT      SCL       ELCHU     ELCHD
    3          .012      .50      3.10       .00      5.00     10.00     70.00      8         1      1801.30   1800.90

CHART  8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
SCALE  1 - WINGWALLS FLARED 30 TO 75 DEGREES

5130, EGIC= 1861.69..MAY BE TOO LARGE IF INLET CONTROLS.
5135, EGOC= 1845.51 ..MAY BE TOO LARGE IF OUTLET CONTROLS.
*SECNO 4.580
3280 CROSS SECTION      4.58 EXTENDED      1.01 FEET

5000 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.22

SPECIAL CULVERT

    EGIC      EGOC        H4     QWEIR     QCULV       VCH     ACULV     ELTRD    WEIRLN
  1861.69   1845.51       .61     4215.     1486.     4.096     150.0   1807.00      769.


3470 ENCROACHMENT STATIONS=     9900.0   10500.0  TYPE=      1  TARGET=      600.000
       ***********************************************************************
          UP STREAM OF 3-10'X5'X54' CBC'S AT CAREFREE HIGHWAY.  FLOW SPLITS
          TO THE WEST. TOTAL FLOW IN APACHE WASH Q100= 5739 CFS.
          TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1474 CFS.
       ***********************************************************************
    4.580      7.01   1809.01       .00   1809.02   1809.11       .11       .61       .00   1804.00
   5739.0     562.1     795.3    4381.6     274.4     194.1    1837.5    1058.0     204.9   1804.00
      .94      2.05      4.10      2.38      .065      .050      .065      .000   1802.00   9900.00
  .001608       70.       70.       70.         2         0         0       .00    600.00  10500.00


FLOW DISTRIBUTION FOR SECNO=      4.58         CWSEL=   1809.01
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9900.    9945.    9983.   10011.   10250.   10320.   10500.
  PER Q=     3.7      6.1     13.9     55.9     11.3      9.1
   AREA=   122.2    152.2    194.1   1196.2    280.4    360.9
    VEL=     1.7      2.3      4.1      2.7      2.3      1.5
  DEPTH=     2.7      4.0      6.9      5.0      4.0      2.0

CCHV=     .100 CEHV=     .300
*SECNO 4.600
3280 CROSS SECTION      4.60 EXTENDED      1.14 FEET


3470 ENCROACHMENT STATIONS=     9890.0   10500.0  TYPE=      1  TARGET=      610.000
       ************************************************************************
          FLOW SPLITS TO WEST. TOTAL FLOW IN APACHE WASH Q100= 5873 CFS.
          TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1340 CFS.
       ************************************************************************
    4.600      7.14   1809.14   1806.94   1809.14   1809.26       .12       .14       .00   1806.00
   5873.0     313.7    1061.3    4498.0     184.9     260.0    1812.0    1062.3     206.0   1806.00
      .95      1.70      4.08      2.48      .065      .050      .065      .000   1802.00   9890.00
  .001865       83.       83.       83.         2        14         0       .00    610.00  10500.00


 DISTRIBUTION FOR SECNO=      4.60          CWSEL=   1809.14

STA=    9890.    9967.    9971.   10016.   10112.   10134.   10156.   10275.   10323.   10440.   10500.
  PER Q=     4.8       .5     18.1     10.9      3.6      5.7     30.6      9.1     13.3      3.5
   AREA=   170.8     14.2    260.0    301.5     85.1    113.1    611.0    204.5    368.8    128.0
    VEL=     1.7      2.1      4.1      2.1      2.5      2.9      2.9      2.6      2.1      1.6
  DEPTH=     2.2      3.1      5.8      3.1      3.9      5.1      5.1      4.3      3.1      2.1

*SECNO 4.650
3280 CROSS SECTION      4.65 EXTENDED       .17 FEET


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9820.0   10360.0  TYPE=      1  TARGET=      540.000
       ************************************************************************
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        FLOW SPLITS TO WEST. TOTAL FLOW IN APACHE WASH Q100= 6053 CFS.
        TOTAL FLOW IN OVERFLOW CHANNEL Q100= 1160 CFS.
      ************************************************************************
    4.650      4.17   1810.17   1810.17   1810.17   1811.02       .85      1.41       .22   1808.00
   6053.0     794.8    2840.9    2417.3     178.4     325.2     378.3    1071.8     209.5   1808.00
      .96      4.46      8.74      6.39      .080      .075      .080      .000   1806.00   9821.72
  .046978      260.      280.      260.         0        14         0       .00    538.28  10360.00


FLOW DISTRIBUTION FOR SECNO=      4.65          CWSEL=   1810.17

STA=    9822.    9982.   10094.   10225.   10251.   10270.   10360.
  PER Q=     13.1     46.9     31.7      6.2      1.6       .3
   AREA=    178.4    325.2    284.7     55.9     22.4     15.3
    VEL=      4.5      8.7      6.7      6.7      4.5      1.2
  DEPTH=      1.1      2.9      2.2      2.2      1.2       .2

*SECNO 4.740
3280 CROSS SECTION      4.74 EXTENDED      1.55 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.33


3470 ENCROACHMENT STATIONS=     9822.0   10700.0  TYPE=      1  TARGET=      878.000
      ************************************************************************
        FLOW SPLITS TO WEST. TOTAL FLOW IN APACHE WASH Q100= 6928 CFS.
        TOTAL FLOW IN OVERFLOW CHANNEL Q100= 285 CFS.
      ************************************************************************
    4.740      6.55   1816.55   1815.40   1816.55   1816.77       .22      5.69       .06   1816.00
   6928.0      25.3    1371.3    5531.4      35.0     258.3    1696.3    1088.0     217.2   1814.00
     1.00       .72      5.31      3.26      .065      .050      .065      .000   1810.00   9833.37
  .005557      400.      500.      500.         8        14         0       .00    866.63  10700.00


FLOW DISTRIBUTION FOR SECNO=      4.74          CWSEL=   1816.55

STA=    9833.    9960.   10029.   10137.   10160.   10380.   10400.   10425.   10485.   10530.   10590.   10700.
  PER Q=       .4     19.8     12.6      3.7     25.8      5.0      6.3      8.9      7.1      4.9      5.6
   AREA=     35.0    258.3    274.4     71.6    561.4     81.0    101.3    175.6    137.3    123.1    170.7
    VEL=       .7      5.3      3.2      3.6      3.2      4.3      4.3      3.5      3.6      2.8      2.3
  DEPTH=       .3      3.8      2.6      3.1      2.6      4.1      4.1      2.9      3.1      2.1      1.6
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.780

3470 ENCROACHMENT STATIONS= 9971.0 10640.0 TYPE= 1 TARGET= 669.000

****

BEGINING OF FLOW SPLIT TO WEST. TOTAL FLOW IN APACHE WASH
Q100=7213 CFS. TOTAL FLOW IN OVERFLOW CHANNEL Q100= 0 CFS.

****

4.780	4.31	1817.31	1816.35	1817.31	1817.65	.34	.84	.04	100000.00
7213.0	.0	714.7	6498.3	.0	130.7	1423.0	1092.6	219.4	1816.00
1.00	.00	5.47	4.57	.000	.050	.065	.000	1813.00	9971.24
.009840	300.	200.	100.	4	11	0	.00	634.32	10605.56

FLOW DISTRIBUTION FOR SECNO= 4.78 CWSEL= 1817.31

STA=	9971.	10021.	10106.	10182.	10190.	10212.	10231.	10317.	10376.	10489.	10509.	10540.	10606.
PER Q=	9.9	4.2	9.7	1.9	2.7	.9	11.0	17.2	33.0	4.6	4.0	1.0	
AREA=	130.7	111.1	175.9	27.2	49.1	25.1	199.4	224.5	429.6	65.2	72.8	43.0	
VEL=	5.5	2.7	4.0	5.0	4.0	2.7	4.0	5.5	5.5	5.0	4.0	1.7	
DEPTH=	2.6	1.3	2.3	3.3	2.3	1.3	2.3	3.8	3.8	3.3	2.3	.7	

*SECNO 4.820

ENCROACHMENT STATIONS= 9832.0 10456.0 TYPE= 1 TARGET= 624.000

4.820	5.22	1822.32	1821.49	1822.32	1822.73	.42	5.06	.02	1820.00
7213.0	1755.5	976.1	4481.4	360.3	129.2	966.0	1109.2	226.3	1820.00
1.03	4.87	7.56	4.64	.065	.050	.065	.000	1817.10	9832.00
.011331	480.	480.	480.	4	8	0	.00	623.75	10455.75

FLOW DISTRIBUTION FOR SECNO= 4.82 CWSEL= 1822.32

STA=	9832.	9888.	9904.	9930.	9975.	10009.	10100.	10126.	10181.	10200.	10208.	10265.	10280.
PER Q=	5.6	6.0	6.6	6.1	13.5	10.1	6.5	7.6	6.7	3.6	8.8	3.8	
AREA=	101.2	67.1	88.4	103.6	129.2	167.6	86.8	128.2	76.3	37.8	141.3	50.3	
VEL=	4.0	6.5	5.4	4.3	7.6	4.3	5.4	4.3	6.3	6.9	4.5	5.4	
DEPTH=	1.8	4.3	3.3	2.3	3.8	1.9	3.3	2.3	4.1	4.8	2.5	3.3	

STA=	10280.	10315.	10435.	10456.
PER Q=	8.7	6.4	.0	
AREA=	116.2	158.3	3.3	
VEL=	5.4	2.9	.7	
DEPTH=	3.3	1.3	.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500
*SECNO 4.900

3470 ENCROACHMENT STATIONS= 9825.0 10340.0 TYPE= 1 TARGET= 515.000

****
UP STREAM OF 2-66"X124' HERC'S WITH HEADWALLS AT 12TH STREET.
SKEWED 32 DEG. TO THE RIGHT. NON EFFECTIVE AT Q100=7213 CFS.
****

4.900	4.52	1824.52	1824.22	1824.49	1825.17	.64	2.32	.11	1824.00
7213.0	1611.8	1071.2	4530.0	245.4	173.9	702.7	1114.5	228.6	1824.00
1.04	6.57	6.16	6.45	.050	.050	.050	.000	1820.00	9825.00
.014833	220.	200.	160.	2	14	0	.00	515.00	10340.00

FLOW DISTRIBUTION FOR SECNO= 4.90 CWSEL= 1824.52

STA=	9825.	9870.	9885.	9905.	9940.	10018.	10030.	10155.	10290.	10310.	10330.	10340.
PER Q=	4.5	6.1	8.2	3.5	14.9	.2	12.7	31.7	8.2	8.2	1.9	
AREA=	68.6	52.9	70.5	53.4	173.9	6.3	190.6	340.9	70.5	70.5	23.9	
VEL=	4.8	8.3	8.4	4.8	6.2	2.4	4.8	6.7	8.4	8.4	5.7	
DEPTH=	1.5	3.5	3.5	1.5	2.2	.5	1.5	2.5	3.5	3.5	2.4	

CCHV= .100 CEHV= .300
*SECNO 4.960

3470 ENCROACHMENT STATIONS= 9900.0 10350.0 TYPE= 1 TARGET= 450.000

4.960	6.20	1828.20	1827.35	1827.78	1828.71	.51	3.53	.01	1826.00
7213.0	714.8	1149.4	5348.8	163.1	156.3	978.3	1121.5	231.4	1826.00
1.05	4.38	7.35	5.47	.065	.060	.065	.000	1822.00	9900.00
.013356	400.	320.	200.	3	11	0	.00	450.00	10350.00

FLOW DISTRIBUTION FOR SECNO= 4.96 CWSEL= 1828.20

STA=	9900.	9974.	10011.	10059.	10136.	10157.	10310.	10345.	10350.
PER Q=	9.9	15.9	6.5	10.6	2.8	39.0	14.0	1.3	
AREA=	163.1	156.3	104.8	170.8	44.7	490.3	146.8	20.8	
VEL=	4.4	7.4	4.5	4.5	4.5	5.7	6.9	4.6	
DEPTH=	2.2	4.2	2.2	2.2	2.2	3.2	4.2	4.1	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 5.030

3470 ENCROACHMENT STATIONS= 9900.0 10350.0 TYPE= 1 TARGET= 450.000

5.030	6.18	1832.18	1831.19	1831.43	1832.61	.43	3.89	.01	1830.00
7213.0	608.3	1180.4	5424.3	163.9	175.6	1078.3	1132.2	235.0	1830.00
1.07	3.71	6.72	5.03	.065	.060	.065	.000	1826.00	9900.00
.009684	345.	365.	340.	3	10	0	.00	450.00	10350.00

FLOW DISTRIBUTION FOR SECNO= 5.03 CWSEL= 1832.18

STA=	9900.	9975.	10012.	10053.	10133.	10141.	10188.	10282.	10350.
PER Q=	8.4	16.4	4.7	9.2	.8	10.3	31.6	18.7	
AREA=	163.9	175.6	88.9	175.2	15.7	152.2	389.8	256.5	
VEL=	3.7	6.7	3.8	3.8	3.8	4.9	5.8	5.3	
DEPTH=	2.2	4.7	2.2	2.2	2.2	3.2	4.2	3.7	

*SECNO 5.090

3470 ENCROACHMENT STATIONS= 9890.0 10320.0 TYPE= 1 TARGET= 430.000

5.090	5.19	1835.19	1834.28	1834.36	1835.70	.51	3.07	.03	1832.00
7213.0	1359.6	1744.0	4109.4	255.5	225.6	852.0	1141.9	238.1	1832.00
1.08	5.32	7.73	4.82	.060	.050	.065	.000	1830.00	9890.00
.010344	300.	300.	310.	2	19	0	.00	430.00	10320.00

FLOW DISTRIBUTION FOR SECNO= 5.09 CWSEL= 1835.19

STA=	9890.	9970.	10025.	10075.	10120.	10145.	10255.	10320.
PER Q=	18.8	24.2	6.0	10.0	8.8	24.6	7.7	
AREA=	255.5	225.6	109.7	143.7	104.8	351.3	142.6	
VEL=	5.3	7.7	3.9	5.0	6.0	5.0	3.9	
DEPTH=	3.2	4.1	2.2	3.2	4.2	3.2	2.2	

*SECNO 5.150

3470 ENCROACHMENT STATIONS= 9962.0 10330.0 TYPE= 1 TARGET= 368.000

5.150	8.31	1838.31	1837.29	1837.47	1838.90	.59	3.17	.02	1836.00
7213.0	90.6	2370.0	4752.3	29.2	279.5	1024.1	1152.7	241.3	1834.00
1.10	3.10	8.48	4.64	.060	.050	.065	.000	1830.00	9962.00
.007863	350.	352.	355.	2	14	0	.00	368.00	10330.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 5.15 CWSEL= 1838.31

STA=	9962.	9978.	10025.	10130.	10170.	10200.	10320.	10330.
PER Q=	1.3	32.9	33.7	8.3	3.4	18.9	1.7	
AREA=	29.2	279.5	452.5	132.4	69.3	337.1	32.8	
VEL=	3.1	8.5	5.4	4.5	3.5	4.0	3.7	
DEPTH=	1.8	5.9	4.3	3.3	2.3	2.8	3.3	

*SECNO 5.210

3470 ENCROACHMENT STATIONS= 9850.0 10175.0 TYPE= 1 TARGET= 325.000

5.210	7.07	1841.07	1840.51	1840.74	1841.90	.83	2.93	.07	1838.00
7213.0	2476.0	2870.5	1866.5	427.6	304.4	374.7	1161.3	243.8	1838.00
1.11	5.79	9.43	4.98	.065	.050	.065	.000	1834.00	9850.00
.011682	330.	310.	300.	2	14	0	.00	325.00	10175.00

FLOW DISTRIBUTION FOR SECNO= 5.21 CWSEL= 1841.07

STA=	9850.	9860.	9885.	9890.	9915.	9970.	10030.	10085.	10110.	10120.	10135.	10150.	10175.
PER Q=	1.8	8.9	2.6	8.9	12.2	39.8	12.2	7.1	2.9	1.7	.6	1.3	
AREA=	29.5	101.8	25.4	101.8	169.0	304.4	169.0	89.3	35.7	31.1	16.1	33.4	
VEL=	4.3	6.3	7.3	6.3	5.2	9.4	5.2	5.8	5.8	4.0	2.6	2.9	
DEPTH=	2.9	4.1	5.1	4.1	3.1	5.1	3.1	3.6	3.6	2.1	1.1	1.3	

*SECNO 5.310
3280 CROSS SECTION 5.31 EXTENDED .53 FEET

3470 ENCROACHMENT STATIONS= 9808.0 10100.0 TYPE= 1 TARGET= 292.000

5.310	8.53	1846.53	1845.33	1845.53	1847.21	.68	5.30	.01	1844.00
7213.0	829.6	5987.0	396.3	201.8	851.8	98.5	1174.2	247.3	1844.00
1.13	4.11	7.03	4.02	.065	.060	.065	.000	1838.00	9808.00
.009773	500.	500.	480.	3	8	0	.00	292.00	10100.00

FLOW DISTRIBUTION FOR SECNO= 5.31 CWSEL= 1846.53

STA=	9808.	9888.	10061.	10100.
PER Q=	11.5	83.0	5.5	
AREA=	201.8	851.8	98.5	
VEL=	4.1	7.0	4.0	
DEPTH=	2.5	4.9	2.5	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 5.380

3470 ENCROACHMENT STATIONS= 9860.0 10100.0 TYPE= 1 TARGET= 240.000

5.380	8.76	1849.76	1848.46	1848.85	1850.56	.80	3.31	.04	1844.00
7213.0	3403.9	2142.6	1666.4	563.4	217.7	334.3	1184.0	249.6	1844.00
1.15	6.04	9.84	4.98	.065	.050	.065	.000	1841.00	9860.00
.008012	350.	375.	425.	3	15	0	.00	240.00	10100.00

FLOW DISTRIBUTION FOR SECNO= 5.38 CWSEL= 1849.76

STA=	9860.	9880.	9900.	9910.	9985.	10015.	10030.	10100.
PER Q=	1.0	3.1	3.8	39.3	29.7	5.7	17.4	
AREA=	29.0	55.1	47.6	431.8	217.7	71.4	263.0	
VEL=	2.5	4.0	5.7	6.6	9.8	5.8	4.8	
DEPTH=	1.4	2.8	4.8	5.8	7.3	4.8	3.8	

*SECNO 5.480

3470 ENCROACHMENT STATIONS= 9860.0 10120.0 TYPE= 1 TARGET= 260.000

5.480	8.10	1854.10	1853.49	1853.30	1855.12	1.02	4.49	.07	1850.00
7213.0	1921.4	4060.2	1231.4	380.2	410.9	251.6	1196.7	252.5	1850.00
1.17	5.05	9.88	4.89	.065	.050	.065	.000	1846.00	9860.00
.009691	530.	500.	500.	2	10	0	.00	260.00	10120.00

FLOW DISTRIBUTION FOR SECNO= 5.48 CWSEL= 1854.10

STA=	9860.	9895.	9930.	9954.	9954.	9978.	10044.	10120.
PER Q=	3.6	7.2	8.0	.0	7.8	56.3	17.1	
AREA=	73.4	108.0	100.4	.2	98.1	410.9	251.6	
VEL=	3.5	4.8	5.8	5.8	5.8	9.9	4.9	
DEPTH=	2.1	3.1	4.1	4.1	4.1	6.3	3.3	

*SECNO 5.570

3470 ENCROACHMENT STATIONS= 9812.0 10050.0 TYPE= 1 TARGET= 238.000

5.570	8.26	1858.26	1857.26	1857.88	1859.12	.85	3.98	.02	1854.00
7213.0	3852.5	3254.2	106.3	691.3	353.2	32.3	1207.0	254.9	1856.00
1.18	5.57	9.21	3.29	.065	.050	.065	.000	1850.00	9812.00
.008858	400.	450.	450.	1	10	0	.00	238.00	10050.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 5.57 CWSEL= 1858.26

STA=	9812.	9824.	9977.	10035.	10050.
PER Q=	2.3	51.1	45.1	1.5	
AREA=	39.1	652.1	353.2	32.3	
VEL=	4.2	5.7	9.2	3.3	
DEPTH=	3.3	4.3	6.1	2.2	

*SECNO 5.640

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.61

3470 ENCROACHMENT STATIONS= 9870.0 10180.0 TYPE= 1 TARGET= 310.000

5.640	5.55	1860.55	1858.61	1860.16	1861.00	.45	1.84	.04	1856.00
7213.0	919.2	6167.2	126.6	301.4	1084.9	44.5	1217.2	257.2	1856.00
1.20	3.05	5.68	2.84	.065	.045	.065	.000	1855.00	9870.00
.003423	370.	345.	320.	3	18	0	.00	310.00	10180.00

FLOW DISTRIBUTION FOR SECNO= 5.64 CWSEL= 1860.55

	9870.	9955.	10170.	10180.
PER Q=	12.7	85.5	1.8	
AREA=	301.4	1084.9	44.5	
VEL=	3.0	5.7	2.8	
DEPTH=	3.5	5.0	4.5	

*SECNO 5.660

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .53

3470 ENCROACHMENT STATIONS= 9800.0 10120.0 TYPE= 1 TARGET= 320.000

5.660	8.76	1862.76	1862.17	1862.29	1863.65	.89	2.52	.13	1860.00
7213.0	2747.6	2800.5	1664.9	520.8	277.2	300.5	1229.7	260.3	1859.00
1.22	5.28	10.10	5.54	.065	.050	.065	.000	1854.00	9800.00
.012281	460.	440.	320.	2	14	0	.00	320.00	10120.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 5.66 CWSEL= 1862.76

STA=	9800.	9839.	9858.	9912.	9980.	10030.	10120.
PER Q=	8.6	6.1	10.3	13.1	38.8	23.1	
AREA=	111.1	71.9	148.6	189.0	277.2	300.5	
VEL=	5.6	6.1	5.0	5.0	10.1	5.5	
DEPTH=	2.9	3.8	2.8	2.8	5.5	3.3	

*SECNO 5.760

3470 ENCROACHMENT STATIONS= 9705.0 10100.0 TYPE= 1 TARGET= 395.000

5.760	6.17	1868.17	1867.47	1868.27	1868.85	.68	5.18	.02	1864.00
7213.0	2925.7	3507.1	780.2	713.4	413.5	176.7	1243.7	264.4	1864.00
1.24	4.10	8.48	4.42	.065	.050	.065	.000	1862.00	9704.99
.008311	470.	540.	570.	4	14	0	.00	395.01	10100.00

FLOW DISTRIBUTION FOR SECNO= 5.76 CWSEL= 1868.17

STA=	9705.	9711.	9712.	9742.	9835.	9865.	9969.	10043.	10097.	10100.
PER Q=	1.0	.4	5.8	9.8	3.2	20.5	48.6	10.6	.2	
AREA=	19.7	5.1	93.4	201.9	65.1	328.2	413.5	169.8	6.9	
VEL=	3.6	5.4	4.5	3.5	3.5	4.5	8.5	4.5	2.5	
DEPTH=	3.2	4.2	3.2	2.2	2.2	3.2	5.6	3.2	2.0	

*SECNO 5.830

3470 ENCROACHMENT STATIONS= 9820.0 10120.0 TYPE= 1 TARGET= 300.000

5.830	6.34	1871.84	1871.39	1871.62	1872.88	1.04	3.92	.11	1868.00
7213.0	1540.4	3613.9	2058.7	326.2	356.9	329.7	1253.8	267.4	1868.00
1.26	4.72	10.13	6.24	.065	.050	.065	.000	1865.50	9820.00
.013276	375.	380.	380.	1	11	0	.00	300.00	10120.00

FLOW DISTRIBUTION FOR SECNO= 5.83 CWSEL= 1871.84

STA=	9820.	9890.	9960.	10030.	10105.	10120.
PER Q=	6.9	14.5	50.1	25.7	2.9	
AREA=	128.1	198.1	356.9	287.3	42.5	
VEL=	3.9	5.3	10.1	6.4	4.9	
DEPTH=	1.8	2.8	5.1	3.8	2.8	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 5.920

3470 ENCROACHMENT STATIONS= 9940.0 10250.0 TYPE= 1 TARGET= 310.000

5.920	6.74	1876.74	1875.60	1876.34	1877.43	.69	4.51	.04	1874.00
7213.0	82.5	2589.4	4541.1	22.1	326.1	775.8	1263.2	270.1	1876.00
1.27	3.73	7.94	5.85	.065	.050	.065	.000	1870.00	9940.00
.010389	375.	400.	375.	3	15	0	.00	310.00	10250.00

FLOW DISTRIBUTION FOR SECNO= 5.92 CWSEL= 1876.74

STA=	9940.	9948.	10024.	10035.	10094.	10131.	10149.	10151.	10178.	10238.	10250.
PER Q=	1.1	35.9	.2	4.8	10.7	10.9	1.0	16.0	17.6	1.8	
AREA=	22.1	326.1	7.8	103.1	137.1	105.4	8.7	154.9	226.4	32.5	
VEL=	3.7	7.9	1.9	3.4	5.6	7.4	8.3	7.5	5.6	4.0	
DEPTH=	2.6	4.3	.7	1.7	3.7	5.7	6.7	5.7	3.7	2.7	

*SECNO 6.010

3470 ENCROACHMENT STATIONS= 9920.0 10250.0 TYPE= 1 TARGET= 330.000

6.010	6.39	1881.89	1881.29	1881.73	1882.75	.85	5.27	.05	1878.00
7213.0	467.8	3375.1	3370.1	101.3	355.5	679.0	1276.2	273.8	1878.00
1.29	4.62	9.49	4.96	.065	.050	.065	.000	1875.50	9920.00
.010648	485.	490.	510.	3	15	0	.00	330.00	10250.00

FLOW DISTRIBUTION FOR SECNO= 6.01 CWSEL= 1881.89

STA=	9920.	9955.	10020.	10035.	10075.	10160.	10175.	10190.	10250.
PER Q=	6.5	46.8	2.9	3.8	16.3	5.8	5.8	12.2	
AREA=	101.3	355.5	43.4	75.7	245.9	65.9	65.9	182.2	
VEL=	4.6	9.5	4.8	3.6	4.8	6.3	6.3	4.8	
DEPTH=	2.9	5.5	2.9	1.9	2.9	4.4	4.4	3.0	

*SECNO 6.090

3470 ENCROACHMENT STATIONS= 9920.0 10230.0 TYPE= 1 TARGET= 310.000

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Q100=7,187 CFS

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6.090	6.15	1885.65	1884.38	1885.51	1886.28	.63	3.51	.02	1882.00
7187.0	174.6	5186.1	1826.3	49.6	726.4	489.3	1288.4	277.0	1882.00
1.31	3.52	7.14	3.73	.065	.050	.065	.000	1879.50	9920.00
.006130	470.	445.	435.	2	19	0	.00	310.00	10230.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 6.09 CWSEL= 1885.65

STA=	9920.	9935.	10070.	10230.
PER Q=	2.4	72.2	25.4	
AREA=	49.6	726.4	489.3	
VEL=	3.5	7.1	3.7	
DEPTH=	3.3	5.4	3.1	

*SECNO 6.160

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .53

3470 ENCROACHMENT STATIONS= 9974.0 10319.0 TYPE= 1 TARGET= 345.000

6.160	6.47	1889.47	1889.29	1889.31	1890.53	1.07	4.12	.13	100000.00
7187.0	.0	3294.9	3892.1	.0	319.0	645.6	1298.7	280.1	1886.00
1.32	.00	10.33	6.03	.000	.060	.065	.000	1883.00	9974.00
.021653	270.	360.	450.	2	8	0	.00	345.00	10319.00

FLOW DISTRIBUTION FOR SECNO= 6.16 CWSEL= 1889.47

STA=	9974.	10040.	10051.	10111.	10209.	10225.	10319.
PER Q=	45.8	2.3	5.3	20.7	6.0	19.8	
AREA=	319.0	27.1	88.0	242.6	56.1	231.6	
VEL=	10.3	6.1	4.3	6.1	7.7	6.1	
DEPTH=	4.9	2.5	1.5	2.5	3.5	2.5	

*SECNO 6.250

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.65

3470 ENCROACHMENT STATIONS= 9940.0 10240.0 TYPE= 1 TARGET= 300.000

6.250	7.27	1895.27	1894.35	1895.03	1896.07	.80	5.51	.03	1892.00
7187.0	126.9	4218.8	2841.3	39.1	490.5	637.7	1309.6	283.4	1892.00
1.34	3.24	8.60	4.46	.065	.050	.065	.000	1888.00	9940.00
.007978	490.	460.	430.	3	5	0	.00	300.00	10240.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 6.25 CWSEL= 1895.27

STA=	9940.	9947.	9962.	10045.	10069.	10240.
PER Q=	.1	1.6	58.7	4.9	34.6	
AREA=	5.9	33.2	490.5	78.7	559.0	
VEL=	1.7	3.5	8.6	4.5	4.4	
DEPTH=	.8	2.3	5.9	3.3	3.3	

*SECNO 6.320

3470 ENCROACHMENT STATIONS= 9957.0 10240.0 TYPE= 1 TARGET= 283.000

6.320	8.85	1898.85	1898.34	1898.46	1899.86	1.01	3.73	.06	100000.00
7187.0	.0	4071.7	3115.3	.0	420.5	589.5	1318.7	285.8	1894.00
1.36	.00	9.68	5.28	.000	.060	.065	.000	1890.00	9957.00
.012826	410.	390.	350.	3	8	0	.00	283.00	10240.00

FLOW DISTRIBUTION FOR SECNO= 6.32 CWSEL= 1898.85

STA=	9957.	10020.	10100.	10240.
PER Q=	56.7	27.3	16.1	
AREA=	420.5	308.2	281.3	
VEL=	9.7	6.4	4.1	
DEPTH=	6.7	3.9	2.0	

*SECNO 6.430

3470 ENCROACHMENT STATIONS= 9800.0 10040.0 TYPE= 1 TARGET= 240.000

6.430	7.08	1903.58	1902.73	1903.42	1904.53	.96	4.67	.01	1898.00
7187.0	3497.1	3321.3	368.6	654.9	331.9	71.8	1328.9	288.3	1898.00
1.37	5.34	10.01	5.14	.065	.050	.065	.000	1896.50	9800.00
.009129	475.	450.	360.	2	16	0	.00	240.00	10040.00

FLOW DISTRIBUTION FOR SECNO= 6.43 CWSEL= 1903.58

STA=	9800.	9925.	9970.	10020.	10030.	10040.
PER Q=	31.3	17.3	46.2	3.8	1.3	
AREA=	448.5	206.4	331.9	45.9	25.9	
VEL=	5.0	6.0	10.0	6.0	3.7	
DEPTH=	3.6	4.6	6.6	4.6	2.6	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 6.500

3470 ENCROACHMENT STATIONS= 9850.0 10072.0 TYPE= 1 TARGET= 222.000

6.500	7.73	1906.73	1906.22	1906.05	1908.02	1.29	3.39	.10	1900.00
7187.0	2592.3	2932.2	1662.5	455.9	241.5	240.0	1336.4	290.0	1900.00
1.38	5.69	12.14	6.93	.065	.050	.065	.000	1899.00	9850.00
.011499	310.	345.	355.	2	8	0	.00	222.00	10072.00

FLOW DISTRIBUTION FOR SECNO= 6.50 CWSEL= 1906.73

STA=	9850.	9947.	9967.	9987.	10020.	10043.	10072.	10072.
PER Q=	17.4	6.1	12.6	40.8	14.3	8.8	.0	
AREA=	266.2	74.2	115.5	241.5	131.1	107.7	1.2	
VEL=	4.7	5.9	7.8	12.1	7.8	5.9	1.3	
DEPTH=	2.7	3.7	5.7	7.5	5.7	3.7	2.7	

*SECNO 6.580

3470 ENCROACHMENT STATIONS= 9926.0 10100.0 TYPE= 1 TARGET= 174.000

6.580	9.20	1911.20	1910.32	1910.89	1912.57	1.37	4.52	.02	1908.00
7187.0	200.8	5225.5	1760.7	53.0	499.1	311.7	1345.3	292.0	1906.00
1.40	3.79	10.47	5.65	.065	.050	.065	.000	1902.00	9926.00
.009666	430.	430.	430.	1	8	0	.00	174.00	10100.00

FLOW DISTRIBUTION FOR SECNO= 6.58 CWSEL= 1911.20

STA=	9926.	9950.	10023.	10088.	10100.
PER Q=	2.8	72.7	22.4	2.1	
AREA=	53.0	499.1	274.9	36.8	
VEL=	3.8	10.5	5.9	4.1	
DEPTH=	2.2	6.9	4.2	3.1	

*SECNO 6.630

3470 ENCROACHMENT STATIONS= 9982.0 10140.0 TYPE= 1 TARGET= 158.000

6.630	9.58	1914.58	1914.06	1914.12	1916.03	1.45	3.44	.03	100000.00
7187.0	.0	3803.8	3383.2	.0	332.9	471.4	1350.9	293.1	1908.00
1.40	.00	11.43	7.18	.000	.060	.065	.000	1905.00	9982.00
.014858	300.	290.	290.	2	6	0	.00	158.00	10140.00

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      6.63          CWSEL=   1914.58

STA=    9982.   10022.   10050.   10132.   10140.
  PER Q=     52.9     19.3     26.6      1.3
   AREA=    332.9    158.2    292.5     20.7
    VEL=     11.4      8.8      6.5      4.3
  DEPTH=      8.4      5.6      3.6      2.5

CCHV=     .300 CEHV=     .500
*SECNO 6.710

3470 ENCROACHMENT STATIONS=     9965.0   10150.0  TYPE=      1  TARGET=      185.000
     6.710     11.64   1919.14   1917.98   1919.00   1920.28      1.14      4.15       .09 100000.00
    7187.0        .0    4830.7    2356.3        .0     490.9     470.8    1358.4     294.5   1912.00
      1.42       .00      9.84      5.01      .000      .055      .070      .000   1907.50   9965.00
   .008614      425.      390.      350.         2         8         0       .00    185.00  10150.00


FLOW DISTRIBUTION FOR SECNO=      6.71          CWSEL=   1919.14

STA=    9965.   10025.   10045.   10090.   10150.
  PER Q=     67.2     11.3     13.2      8.4
   AREA=    490.9    122.8    186.3    161.7
    VEL=      9.8      6.6      5.1      3.7
  DEPTH=      8.2      6.1      4.1      2.7

*SECNO 6.800

3470 ENCROACHMENT STATIONS=     9800.0   10037.0  TYPE=      1  TARGET=      237.000
     6.800      9.67   1923.67   1922.54   1923.29   1924.52       .86      4.16       .08   1918.00
    7187.0    3641.7    3528.1      17.1     721.8     380.2      8.8    1369.6     296.8   1922.00
      1.44      5.05      9.28      1.94      .070      .055      .070      .000   1914.00   9800.00
   .008700      500.      495.      400.         2        14         0       .00    237.00  10037.00


FLOW DISTRIBUTION FOR SECNO=      6.80          CWSEL=   1923.67

STA=    9800.    9881.    9901.    9977.   10028.   10037.
  PER Q=     18.8      4.9     27.1     49.1       .2
   AREA=    295.4     74.2    352.2    380.2      8.8
    VEL=      4.6      4.7      5.5      9.3      1.9
  DEPTH=      3.7      3.7      4.7      7.3      1.0
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .300 CEHV=     .500
*SECNO 6.900

3470 ENCROACHMENT STATIONS=     9822.0   10024.0  TYPE=      1  TARGET=      202.000
     6.900      9.11   1929.11   1928.34   1928.18   1930.33      1.22      5.63       .18   1922.00
    7187.0    4095.3    3091.7        .0     676.5     267.3        .0    1381.5     299.3 100000.00
      1.45      6.05     11.57       .00      .080      .055      .000      .000   1920.00   9822.00
   .014580      490.      529.      560.         2        15         0       .00    202.00  10024.00


FLOW DISTRIBUTION FOR SECNO=      6.90          CWSEL=   1929.11

STA=    9822.    9857.    9954.    9987.   10027.
  PER Q=      3.8     32.0     21.2     43.0
   AREA=     74.4    398.6    203.4    267.3
    VEL=      3.7      5.8      7.5     11.6
  DEPTH=      2.1      4.1      6.1      7.3

*SECNO 6.980

3470 ENCROACHMENT STATIONS=     9900.0   10075.0  TYPE=      1  TARGET=      175.000
     6.980      9.97   1933.97   1932.85   1933.26   1935.32      1.35      4.92       .06   1928.00
    7187.0    1114.7    5004.4    1067.9     254.3     467.1     210.6    1390.6     301.1   1928.00
      1.47      4.38     10.71      5.07      .080      .055      .080      .000   1924.00   9900.00
   .009378      400.      437.      470.         2         8         0       .00    175.00  10075.00


FLOW DISTRIBUTION FOR SECNO=      6.98          CWSEL=   1933.97

STA=    9900.    9935.    9944.    9976.   10032.   10071.   10075.
  PER Q=      2.6      1.4     11.5     69.6     14.3       .6
   AREA=     69.0     27.2    158.1    467.1    196.3     14.4
    VEL=      2.7      3.7      5.2     10.7      5.2      2.8
  DEPTH=      2.0      3.0      5.0      8.4      5.0      3.7

CCHV=     .300 CEHV=     .500
*SECNO 7.080

3470 ENCROACHMENT STATIONS=     9926.0   10066.0  TYPE=      1  TARGET=      140.000
     7.080      9.50   1938.50   1936.93   1937.93   1940.05      1.55      4.63       .10   1932.00
    7187.0     392.1    6164.1     630.8      96.6     577.7     155.7    1400.6     302.9   1932.00
      1.48      4.06     10.67      4.05      .090      .055      .090      .000   1929.00   9926.00
   .009198      485.      500.      500.         3        15         0       .00    140.00  10066.00
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

FLOW DISTRIBUTION FOR SECNO=      7.08         CWSEL=   1938.50

STA=    9926.    9935.    9944.    9953.   10022.   10036.   10052.   10066.
  PER Q=      .4      1.6      3.5     85.8      5.4      2.7       .6
   AREA=    13.2     31.2     52.2    577.7     79.4     53.8     22.4
    VEL=     2.0      3.6      4.9     10.7      4.9      3.6      2.1
  DEPTH=     1.5      3.5      5.5      8.4      5.5      3.5      1.6

*SECNO 7.170

3470 ENCROACHMENT STATIONS=     9951.0   10097.0  TYPE=      1  TARGET=      146.000
     7.170      9.53   1943.53   1942.42   1943.79   1945.30      1.77      5.14       .11   1940.00
    7187.0      41.2    6813.3     332.4      14.8     623.1     106.5    1409.7     304.5   1940.00
      1.49      2.79     10.93      3.12      .090      .055      .090      .000   1934.00   9951.71
   .011498      500.      500.      520.         2        11         0       .00    143.01  10094.72


FLOW DISTRIBUTION FOR SECNO=      7.17         CWSEL=   1943.53

STA=    9952.    9955.    9960.   10044.   10082.   10095.
  PER Q=      .1       .5     94.8      4.4       .2
   AREA=     2.8     12.0    623.1     97.0      9.5
    VEL=     1.4      3.1     10.9      3.3      1.5
  DEPTH=      .8      2.5      7.4      2.5       .8

CCHV=     .300 CEHV=     .500
*SECNO 7.280

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.60


3470 ENCROACHMENT STATIONS=     9755.0   10042.8  TYPE=      1  TARGET=      287.800
     7.280      8.23   1949.03   1945.46   1948.95   1949.31       .28      3.57       .45   1944.00
    7187.0    5018.1    2168.9        .0    1429.3     387.8        .0    1424.5     307.0 100000.00
      1.53      3.51      5.59       .00      .100      .055      .000      .000   1940.80   9755.00
   .004515      475.      554.      410.         2        11         0       .00    287.80  10042.80
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 7.28 CWSEL= 1949.03

STA=	9755.	9760.	9800.	9837.	9850.	9874.	9924.	9962.	9972.	10047.
PER Q=	.6	11.1	13.1	4.8	9.2	18.4	10.5	2.0	30.2	
AREA=	23.7	241.3	257.6	93.5	176.7	358.3	228.3	50.0	387.8	
VEL=	1.8	3.3	3.7	3.7	3.7	3.7	3.3	2.9	5.6	
DEPTH=	4.7	6.0	7.0	7.1	7.2	7.1	6.0	5.0	5.5	

*SECNO 7.360

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .45

3470 ENCROACHMENT STATIONS= 9825.0 10040.3 TYPE= 1 TARGET= 215.300

7.360	7.50	1952.00	1951.88	1951.97	1953.76	1.76	3.71	.74	1948.00
7187.0	1636.2	5550.8	.0	363.4	468.1	.0	1437.6	309.5	100000.00
1.54	4.50	11.86	.00	.100	.055	.000	.000	1944.50	9825.00
.021966	420.	446.	470.	2	15	0	.00	215.30	10040.30

DISTRIBUTION FOR SECNO= 7.36 CWSEL= 1952.00

STA=	9825.	9836.	9949.	10053.
PER Q=	.9	21.9	77.2	
AREA=	21.1	342.2	468.1	
VEL=	3.1	4.6	11.9	
DEPTH=	2.0	3.0	5.1	

*SECNO 7.460

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.64

3470 ENCROACHMENT STATIONS= 9923.0 10110.0 TYPE= 1 TARGET= 187.000

7.460	7.79	1959.29	1957.54	1959.04	1960.28	.99	6.29	.23	1954.00
7187.0	702.4	5291.1	1193.5	199.0	585.3	304.0	1448.6	311.8	1953.00
1.56	3.53	9.04	3.93	.100	.055	.100	.000	1951.50	9923.00
.008163	490.	500.	510.	3	15	0	.00	187.00	10110.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 7.46 CWSEL= 1959.29

STA=	9923.	9969.	10051.	10082.	10110.
PER Q=	9.8	73.6	10.5	6.1	
AREA=	199.0	585.3	175.2	128.8	
VEL=	3.5	9.0	4.3	3.4	
DEPTH=	4.3	7.2	5.8	4.5	

*SECNO 7.550

3470 ENCROACHMENT STATIONS= 9911.0 10150.0 TYPE= 1 TARGET= 239.000

7.550	7.46	1964.16	1962.91	1964.00	1965.15	.99	4.87	.00	1960.00
7187.0	484.1	3615.5	3087.4	146.6	351.9	640.9	1461.2	314.2	1958.00
1.58	3.30	10.27	4.82	.100	.055	.100	.000	1956.70	9912.44
.012083	510.	500.	480.	4	15	0	.00	237.56	10150.00

FLOW DISTRIBUTION FOR SECNO= 7.55 CWSEL= 1964.16

STA=	9912.	9929.	9970.	10025.	10145.	10150.
PER Q=	.4	6.3	50.3	42.2	.7	
AREA=	18.1	128.6	351.9	622.6	18.4	
VEL=	1.8	3.5	10.3	4.9	2.8	
DEPTH=	1.1	3.2	6.5	5.2	3.8	

*SECNO 7.650

3470 ENCROACHMENT STATIONS= 9800.0 10050.0 TYPE= 1 TARGET= 250.000

7.650	7.93	1969.73	1968.06	1969.66	1970.46	.73	5.24	.08	1964.00
7187.0	3902.2	3002.0	282.8	915.2	318.9	93.9	1475.3	317.0	1966.00
1.60	4.26	9.41	3.01	.100	.055	.100	.000	1961.80	9800.00
.009197	520.	500.	470.	2	15	0	.00	250.00	10050.00

FLOW DISTRIBUTION FOR SECNO= 7.65 CWSEL= 1969.73

STA=	9800.	9805.	9827.	9882.	9917.	9977.	10023.	10050.
PER Q=	.5	5.8	15.9	10.1	22.0	41.8	3.9	
AREA=	15.9	104.2	274.3	174.5	346.3	318.9	93.9	
VEL=	2.3	4.0	4.2	4.2	4.6	9.4	3.0	
DEPTH=	3.2	4.7	5.0	5.0	5.7	7.1	3.4	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 7.740

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3470 ENCROACHMENT STATIONS= 9850.0 10131.0 TYPE= 1 TARGET= 281.000

7.740	6.57	1975.67	1974.97	1975.24	1976.66	.99	6.07	.13	1972.00
7187.0	2235.0	2078.4	2873.6	463.2	168.7	510.0	1488.1	319.7	1970.00
1.62	4.82	12.32	5.63	.100	.055	.100	.000	1969.10	9850.00
.020219	425.	500.	475.	3	19	0	.00	281.00	10131.00

FLOW DISTRIBUTION FOR SECNO= 7.74 CWSEL= 1975.67

STA=	9850.	9888.	9915.	9968.	9981.	10010.	10062.	10086.	10110.	10118.	10131.
PER Q=	8.7	6.9	12.4	3.0	28.9	19.9	5.7	7.6	4.2	2.5	
AREA=	135.2	99.1	183.8	45.1	168.7	242.8	84.4	99.4	45.3	38.0	
VEL=	4.6	5.0	4.8	4.8	12.3	5.9	4.9	5.5	6.7	4.7	
DEPTH=	3.6	3.7	3.5	3.5	5.8	4.7	3.5	4.1	5.7	2.9	

*SECNO 7.840

WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

3470 ENCROACHMENT STATIONS= 9885.0 10110.0 TYPE= 1 TARGET= 225.000

7.840	8.15	1982.55	1980.77	1981.96	1983.34	.79	6.62	.06	1976.00
7187.0	2747.5	2953.1	1486.4	586.7	301.4	387.6	1502.1	322.6	1976.00
1.64	4.68	9.80	3.84	.100	.055	.100	.000	1974.40	9885.00
.009238	575.	500.	425.	3	8	0	.00	225.00	10110.00

FLOW DISTRIBUTION FOR SECNO= 7.84 CWSEL= 1982.55

STA=	9885.	9908.	9916.	9918.	9941.	9975.	9984.	10025.	10036.	10073.	10110.
PER Q=	4.5	2.7	.9	10.5	15.5	4.1	41.1	3.8	9.2	7.7	
AREA=	96.8	44.4	13.1	150.7	222.7	59.0	301.4	61.1	168.4	158.1	
VEL=	3.4	4.4	5.0	5.0	5.0	5.0	9.8	4.4	3.9	3.5	
DEPTH=	4.2	5.6	6.6	6.6	6.6	6.6	7.4	5.6	4.6	4.3	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 7.890

3470 ENCROACHMENT STATIONS= 9875.0 10155.0 TYPE= 1 TARGET= 280.000

7.890	8.38	1985.38	1984.35	1984.83	1986.33	.95	2.91	.08	1982.00
7187.0	708.9	3066.2	3411.8	242.0	286.9	688.9	1509.7	324.2	1978.00
1.65	2.93	10.69	4.95	.100	.055	.100	.000	1977.00	9875.00
.012432	300.	300.	220.	3	15	0	.00	280.00	10155.00

FLOW DISTRIBUTION FOR SECNO= 7.89 CWSEL= 1985.38

STA=	9875.	9878.	9978.	10020.	10054.	10082.	10149.	10155.
PER Q=	.1	9.8	42.7	17.2	10.7	18.8	.8	
AREA=	4.1	237.9	286.9	216.9	150.6	300.1	21.3	
VEL=	1.6	3.0	10.7	5.7	5.1	4.5	2.8	
DEPTH=	1.4	2.4	6.8	6.4	5.4	4.5	3.6	

*SECNO 7.980

3470 ENCROACHMENT STATIONS= 9700.0 10075.0 TYPE= 1 TARGET= 375.000

7.980	8.29	1990.09	1988.87	1989.73	1990.68	.59	4.25	.11	1984.00
7187.0	3952.6	2478.7	755.7	1147.7	263.4	223.0	1522.6	327.0	1984.00
1.67	3.44	9.41	3.39	.100	.055	.100	.000	1981.80	9700.00
.008345	280.	465.	520.	2	9	0	.00	375.00	10075.00

FLOW DISTRIBUTION FOR SECNO= 7.98 CWSEL= 1990.09

STA=	9700.	9740.	9757.	9773.	9859.	9898.	9927.	9950.	9975.	9982.	10017.	10039.	10075.
PER Q=	6.4	4.1	3.8	17.0	7.1	5.3	4.5	4.9	1.9	34.5	6.2	4.3	
AREA=	148.9	78.0	73.4	351.4	151.6	112.7	94.0	102.2	35.6	263.4	111.9	111.1	
VEL=	3.1	3.7	3.7	3.5	3.4	3.4	3.5	3.5	3.9	9.4	4.0	2.8	
DEPTH=	3.7	4.6	4.6	4.1	3.9	3.9	4.1	4.1	5.1	7.5	5.1	3.1	

*SECNO 8.020

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9825.0   10110.0  TYPE=      1  TARGET=      285.000
        ************************************************************************
        *********  CONFLUENCE OF APACHE WASH AND W. BR. APACHE WASH  ***********
        ************************************************************************
    8.020      7.23   1992.33   1992.09   1992.24   1993.77      1.44      2.66       .42   1988.00
   7187.0    2166.4    4335.2     685.4     490.4     364.6     175.8    1529.4     328.7   1988.00
     1.68      4.42     11.89      3.90      .100      .055      .100      .000   1985.10   9825.00
  .017597      215.      235.      245.         2        15         0       .00    285.00  10110.00


FLOW DISTRIBUTION FOR SECNO=      8.02          CWSEL=   1992.33

STA=    9825.    9862.    9894.    9897.    9951.    9977.   10037.   10077.   10109.   10110.
  PER Q=      3.0      6.5       .9     13.3      6.4     60.3      8.1      1.4       .0
   AREA=     72.7    106.5     13.0    201.3     96.9    364.6    133.1     42.5       .2
    VEL=      3.0      4.4      5.2      4.7      4.7     11.9      4.4      2.4       .6
  DEPTH=      2.0      3.3      4.3      3.7      3.7      6.1      3.3      1.3       .2

CCHV=     .300 CEHV=     .500
*SECNO 8.120

 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9950.0   10120.0  TYPE=      1  TARGET=      170.000
        ************************************************************************
         FIRST CROSS SECTION ON APACHE WASH UPSTREAM OF CONFLUENCE  ***********
         WITH APACHE WASH-WEST BRANCH.  Q100 = 3853 CFS  **********************
        ************************************************************************
    8.120      8.94   1998.74   1996.22   1998.69   1999.19       .46      5.13       .29   1990.00
   3853.0     868.6    1236.0    1748.4     250.5     150.3     528.9    1540.5     331.2   1990.00
     1.70      3.47      8.23      3.31      .100      .055      .100      .000   1989.80   9950.00
  .005072      450.      500.      525.         1        15         0       .00    169.87  10119.87


FLOW DISTRIBUTION FOR SECNO=      8.12          CWSEL=   1998.74

STA=    9950.    9965.    9978.    9993.   10010.   10019.   10085.   10101.   10111.   10120.
  PER Q=      3.6      6.5     12.4     32.1      7.4     33.3      3.9       .7       .0
   AREA=     59.8     74.6    116.1    150.3     69.7    378.8     59.8     17.4      3.3
    VEL=      2.3      3.4      4.1      8.2      4.1      3.4      2.5      1.5       .5
  DEPTH=      4.0      5.7      7.7      8.8      7.7      5.7      3.7      1.7       .4
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 8.210

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9944.0 10040.0 TYPE= 1 TARGET= 96.000

8.210	7.19	2002.59	2002.59	2002.47	2004.83	2.23	4.67	.89	1996.00
3853.0	720.3	2253.8	878.9	125.8	151.7	143.6	1548.1	332.7	1996.00
1.72	5.73	14.86	6.12	.100	.055	.100	.000	1995.40	9944.00
.023107	515.	500.	480.	0	15	0	.00	96.00	10040.00

FLOW DISTRIBUTION FOR SECNO= 8.21 CWSEL= 2002.59

STA=	9944.	9950.	9962.	9974.	9985.	10007.	10020.	10039.	10040.
PER Q=	.1	1.5	5.9	11.2	58.5	13.3	9.4	.1	
AREA=	2.0	19.1	43.1	61.5	151.7	72.7	68.3	2.6	
VEL=	1.1	3.1	5.3	7.0	14.9	7.1	5.3	1.8	
DEPTH=	.3	1.6	3.6	5.6	6.9	5.6	3.6	2.6	

*SECNO 8.310

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

3470 ENCROACHMENT STATIONS= 9978.0 10065.0 TYPE= 1 TARGET= 87.000

8.310	9.51	2010.81	2009.10	2009.92	2012.04	1.24	6.91	.30	2002.00
3853.0	317.7	2083.7	1451.7	73.3	183.1	315.2	1553.8	333.8	2002.00
1.73	4.33	11.38	4.61	.100	.055	.100	.000	2001.30	9978.00
.009286	500.	500.	490.	3	8	0	.00	87.00	10065.00

FLOW DISTRIBUTION FOR SECNO= 8.31 CWSEL= 2010.81

STA=	9978.	9980.	9984.	9988.	9992.	10012.	10019.	10059.	10065.
PER Q=	.1	1.3	2.6	4.2	54.1	7.8	27.9	2.0	
AREA=	3.6	15.2	23.2	31.2	183.1	54.7	232.3	28.3	
VEL=	1.4	3.2	4.3	5.2	11.4	5.5	4.6	2.8	
DEPTH=	1.8	3.8	5.8	7.8	9.2	7.8	5.8	4.7	

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
           QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME    VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE   XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 8.400

3470 ENCROACHMENT STATIONS=     9916.0   10039.0  TYPE=      1  TARGET=      123.000
     8.400      7.39   2016.09   2015.30   2015.52   2017.38      1.29      5.31       .03   2010.00
    3853.0     894.1    2603.6     355.3     228.2     242.5      83.7    1560.2     335.0   2010.00
      1.75      3.92     10.74      4.24      .100      .055      .100      .000   2008.70   9916.00
   .012457      520.      500.      470.         4        19         0       .00    123.00  10039.00


FLOW DISTRIBUTION FOR SECNO=      8.40          CWSEL=   2016.09

STA=    9916.    9921.    9968.    9983.   10019.   10030.   10039.
  PER Q=       .3     13.2      9.7     67.6      7.0      2.2
   AREA=      6.9    145.0     76.3    242.5     55.9     27.8
    VEL=      1.8      3.5      4.9     10.7      4.9      3.0
  DEPTH=      1.4      3.1      5.1      6.7      5.1      3.1

*SECNO 8.500

3470 ENCROACHMENT STATIONS=     9952.0   10075.0  TYPE=      1  TARGET=      123.000
     8.500      7.74   2022.04   2020.83   2021.61   2023.07      1.03      5.61       .08   2016.00
    3853.0     634.4    2383.6     834.9     168.7     241.4     211.3    1566.9     336.4   2016.00
      1.77      3.76     9.87      3.95      .100      .055      .100      .000   2014.30   9952.00
   .010254      450.      500.      550.         2        15         0       .00    123.00  10075.00


FLOW DISTRIBUTION FOR SECNO=      8.50          CWSEL=   2022.04

STA=    9952.    9984.    9991.   10026.   10039.   10074.   10075.
  PER Q=      12.4      4.1     61.9      7.5     14.1       .1
   AREA=     132.7     36.0    241.4     65.6    141.7      4.0
    VEL=       3.6      4.4      9.9      4.4      3.8      1.3
  DEPTH=       4.1      5.1      6.9      5.0      4.0      4.0

CCHV=     .100 CEHV=     .300
*SECNO -3.960
START TRIB COMP
    -3.960     3.960  1782.588

3470 ENCROACHMENT STATIONS=     9877.0   10433.0  TYPE=      1  TARGET=      556.000
       ***********************************************************************
```

SPLIT FLOW FROM UPSTREAM OF CAREFREE HWY. REENTERS HERE
****

-3.960	8.59	1782.59	.00	1782.42	1783.31	.72	4.99	.71	1782.00
7213.0	2.7	5524.5	1685.8	2.3	730.3	525.0	1577.5	340.1	1782.00
1.79	1.18	7.56	3.21	.065	.050	.065	.000	1774.00	9877.00
.009708	490.	520.	460.	0	0	0	.00	556.00	10433.00

FLOW DISTRIBUTION FOR SECNO= -3.96 CWSEL= 1782.59

STA=	9877.	9883.	10057.	10180.	10410.	10418.	10423.	10433.
PER Q=	.0	76.6	1.6	15.5	2.1	1.8	2.4	
AREA=	2.3	730.3	71.9	364.9	29.6	20.9	37.7	
VEL=	1.2	7.6	1.6	3.1	5.2	6.2	4.5	
DEPTH=	.4	4.2	.6	1.6	3.6	4.6	3.6	

*SECNO 4.055

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .29

3470 ENCROACHMENT STATIONS= 9874.0 10045.0 TYPE= 1 TARGET= 171.000
****
BEGINNING OF WEST OVERFLOW CHANNEL CAUSED BY SPLIT FLOW UPSTREAM
OF CAREFREE HIGHWAY. Q100=1,866 CFS
****

4.055	3.68	1785.68	1784.66	1785.48	1786.03	.35	2.69	.04	1782.00
1866.0	522.7	772.7	570.6	158.4	132.3	132.8	1583.1	342.5	1782.00
1.81	3.30	5.84	4.30	.065	.050	.065	.000	1782.00	9874.00
07853	300.	290.	285.	2	17	0	.00	171.00	10045.00

FLOW DISTRIBUTION FOR SECNO= 4.05 CWSEL= 1785.68

STA=	9874.	9925.	9965.	10005.	10045.
PER Q=	5.5	22.5	41.4	30.6	
AREA=	51.1	107.3	132.3	132.8	
VEL=	2.0	3.9	5.8	4.3	
DEPTH=	1.0	2.7	3.3	3.3	

*SECNO 4.111

3470 ENCROACHMENT STATIONS= 9807.0 10065.0 TYPE= 1 TARGET= 258.000

4.111	3.98	1788.18	1787.55	1787.62	1788.42	.24	2.38	.01	1786.00
1866.0	1178.4	188.6	499.0	338.5	30.9	131.6	1586.0	343.9	1786.00
1.83	3.48	6.10	3.79	.065	.050	.065	.000	1784.20	9807.00
.010123	320.	250.	200.	2	10	0	.00	258.00	10065.00

```
   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      4.11          CWSEL=   1788.18

STA=    9807.    9905.    9995.   10005.   10065.
  PER Q=     22.1     41.1     10.1     26.7
   AREA=    141.1    197.4     30.9    131.6
    VEL=      2.9      3.9      6.1      3.8
  DEPTH=      1.4      2.2      3.1      2.2

*SECNO 4.233

3470 ENCROACHMENT STATIONS=     9552.0   10045.0  TYPE=      1  TARGET=      493.000
     4.233      2.94   1791.94   1791.23   1791.93   1792.08       .13      3.65       .01   1790.00
    1866.0    1434.3     228.1     203.6     565.0      48.9      67.8    1591.7     347.5   1790.00
      1.87      2.54      4.67      3.01      .065      .050      .065      .000   1789.00   9558.30
   .007549      420.      430.      410.         2        11         0       .00    486.70  10045.00


FLOW DISTRIBUTION FOR SECNO=      4.23          CWSEL=   1791.94

STA=    9558.    9840.    9990.   10010.   10040.   10045.
  PER Q=     28.6     48.3     12.2      9.7      1.3
   AREA=    273.6    291.4     48.9     58.3      9.5
    VEL=      1.9      3.1      4.7      3.1      2.5
  DEPTH=      1.0      1.9      2.4      1.9      1.9

*SECNO 4.311

3470 ENCROACHMENT STATIONS=     9612.0   10060.0  TYPE=      1  TARGET=      448.000
       ************************************************************************
           FLOW SPLIT FROM EAST CHANNEL; Q100=1,866 CFS
       ************************************************************************
     4.311      3.40   1795.40   1795.15   1795.18   1795.66       .26      3.55       .04   1792.00
    1866.0    1332.1     258.8     275.1     427.0      34.0      81.8    1596.8     351.4   1792.00
      1.89      3.12      7.62      3.36      .065      .050      .065      .000   1792.00   9612.00
   .012880      370.      370.      340.         3         8         0       .00    448.00  10060.00


FLOW DISTRIBUTION FOR SECNO=      4.31          CWSEL=   1795.40

STA=    9612.    9890.    9945.    9995.   10005.   10010.   10060.
  PER Q=     28.2     13.3     29.8     13.9      2.8     11.9
   AREA=    230.4     76.8    119.8     34.0     12.0     69.8
    VEL=      2.3      3.2      4.6      7.6      4.4      3.2
  DEPTH=       .8      1.4      2.4      3.4      2.4      1.4
```

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 4.499

3470 ENCROACHMENT STATIONS=     9441.0   10060.0  TYPE=      1  TARGET=      619.000
      ************************************************************************
          FLOW SPLIT FROM EAST CHANNEL;  Q100=1,866 CFS
      ************************************************************************
    4.499      2.81   1800.31   1799.71   1800.27   1800.45       .14      4.77       .01   1798.00
   1866.0    1250.2     312.8     303.0     547.7      63.9      98.0    1603.7     357.1   1798.00
     1.94      2.28      4.90      3.09      .065      .050      .065      .000   1797.50   9441.00
  .007773      450.      550.      575.         5        14         0       .00    619.00  10060.00


FLOW DISTRIBUTION FOR SECNO=      4.50          CWSEL=   1800.31

STA=    9441.    9465.    9600.    9985.   10010.   10060.
  PER Q=       .1      2.0     64.9     16.8     16.2
   AREA=      3.8     41.2    502.6     63.9     98.0
    VEL=       .6       .9      2.4      4.9      3.1
  DEPTH=       .2       .3      1.3      2.6      2.0

*SECNO 4.655

 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .67


3470 ENCROACHMENT STATIONS=     9631.0   10065.0  TYPE=      1  TARGET=      434.000
      ************************************************************************
          FLOW SPLIT FORM EAST CHANNEL;  Q100=1250 CFS
      ************************************************************************
    4.655      2.48   1804.48   1803.86   1804.35   1804.68       .20      4.21       .02   1802.00
   1250.0     462.4     475.6     312.1     244.0      99.1      96.0    1610.9     363.8   1802.00
     1.99      1.90      4.80      3.25      .065      .050      .065      .000   1802.00   9631.00
  .007766      560.      540.      500.         3        15         0       .00    434.00  10065.00


FLOW DISTRIBUTION FOR SECNO=      4.66          CWSEL=   1804.48

STA=    9631.    9650.    9900.    9980.   10020.   10065.
  PER Q=       .5     11.8     24.7     38.0     25.0
   AREA=      6.1    119.6    118.3     99.1     96.0
    VEL=       .9      1.2      2.6      4.8      3.3
  DEPTH=       .3       .5      1.5      2.5      2.1
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.722

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .40

3470 ENCROACHMENT STATIONS= 9917.0 10065.0 TYPE= 1 TARGET= 148.000

****

FLOW SPLIT FROM EAST CHANNEL; Q100= 723 CFS

****

4.722	2.12	1809.12	1808.90	1809.06	1809.47	.36	4.75	.05	1808.00
723.0	52.2	587.2	83.5	26.6	113.3	29.7	1614.4	367.3	1808.00
2.01	1.96	5.18	2.82	.065	.050	.065	.000	1807.00	9917.44
.015998	550.	475.	430.	2	15	0	.00	147.56	10065.00

FLOW DISTRIBUTION FOR SECNO= 4.72 CWSEL= 1809.12

STA=	9917.	9965.	10035.	10065.
PER Q=	7.2	81.2	11.6	
AREA=	26.6	113.3	29.7	
VEL=	2.0	5.2	2.8	
DEPTH=	.6	1.6	1.0	

*SECNO 4.744

3470 ENCROACHMENT STATIONS= 9938.0 10055.0 TYPE= 1 TARGET= 117.000

****

END OF WEST OVERFLOW CHANNEL CAUSED BY SPLIT FLOW UPSTREAM OF
CAREFREE HIGHWAY. Q100= 285 CFS

****

4.744	2.02	1811.02	1810.32	1810.98	1811.09	.08	1.59	.03	1810.00
285.0	17.0	251.9	16.1	18.1	106.6	13.2	1615.0	367.8	1810.00
2.04	.94	2.36	1.22	.065	.050	.065	.000	1809.00	9938.00
.003610	190.	170.	170.	2	14	0	.00	117.00	10055.00

FLOW DISTRIBUTION FOR SECNO= 4.74 CWSEL= 1811.02

STA=	9938.	9970.	10040.	10055.
PER Q=	6.0	88.4	5.7	
AREA=	18.1	106.6	13.2	
VEL=	.9	2.4	1.2	
DEPTH=	.6	1.5	.9	

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    L-BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      R-BANK ELEV
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


CCHV=     .030 CEHV=     .050
*SECNO -8.020
START TRIB COMP
    -8.020     8.020  1992.327

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9825.0   10110.0  TYPE=      1  TARGET=      285.000
      ***********************************************************************
          CONFLUENCE OF APACHE WASH AND APACHE WASH-WEST BRANCH
      ***********************************************************************
   -8.020      7.23   1992.33       .00   1992.24   1993.78      1.45       .00      1.62   1988.00
   7213.0    2174.1    4351.1     687.8     490.3     364.6     175.7    1615.0     367.8   1988.00
     2.04      4.43     11.94      3.91      .100      .055      .100      .000   1985.10   9825.00
  .017731        0.        0.        0.         0         0         0       .00    285.00  10110.00


FLOW DISTRIBUTION FOR SECNO=     -8.02          CWSEL=   1992.33

STA=    9825.    9862.    9894.    9897.    9951.    9977.   10037.   10077.   10109.   10110.
 PER Q=      3.0      6.5       .9     13.3      6.4     60.3      8.1      1.4       .0
 AREA=      72.7    106.5     13.0    201.3     96.9    364.6    133.1     42.5       .2
 VEL=        3.0      4.4      5.3      4.8      4.8     11.9      4.4      2.4       .6
 DEPTH=      2.0      3.3      4.3      3.7      3.7      6.1      3.3      1.3       .2

*SECNO  .090

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .61


3470 ENCROACHMENT STATIONS=     9939.0   10090.0  TYPE=      1  TARGET=      151.000
      ***********************************************************************
        FIRST CROSS SECTION ON APACHE WASH-WEST BRANCH UPSTREAM OF CONFLUENCE
        UPSTREAM OF CONFLUENCE.   Q100 = 2191 CFS
      ***********************************************************************
     .090      8.89   1999.09   1997.31   1999.08   1999.47       .37      5.66       .03   1992.00
   2191.0     406.5     898.3     886.3     160.1     127.9     347.3    1624.3     370.2   1992.00
     2.07      2.54      7.02      2.55      .100      .055      .100      .000   1990.20   9940.35
  .004378      525.      500.      425.         2         6         0       .00    149.65  10090.00
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    L-BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      R-BANK ELEV
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


FLOW DISTRIBUTION FOR SECNO=      .09        CWSEL=   1999.09

STA=    9940.    9948.    9967.    9979.    9990.   10006.   10014.   10081.   10090.
  PER Q=      .1      2.9      5.6      9.9     41.0      7.2     31.5      1.8
   AREA=     4.2     39.8     49.1     67.0    127.9     48.7    274.2     24.3
    VEL=      .7      1.6      2.5      3.2      7.0      3.2      2.5      1.6
  DEPTH=      .5      2.1      4.1      6.1      8.0      6.1      4.1      2.7

*SECNO  .130

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9972.0   10074.0  TYPE=      1  TARGET=      102.000
      .130      6.12   2000.12   2000.12   2000.11   2001.68      1.57      1.70       .06   1996.00
    2191.0     125.9    1576.6     488.5      31.7     136.3     121.8    1626.5     370.8   1996.00
      2.07      3.98     11.57      4.01      .100      .055      .100      .000   1994.00   9972.53
   .020528      200.      207.      210.         0        19         0       .00    101.47  10074.00


 DISTRIBUTION FOR SECNO=      .13        CWSEL=   2000.12

STA=    9973.    9979.    9987.   10013.   10043.   10068.   10074.
  PER Q=      .7      5.1     72.0     19.4      2.9       .0
   AREA=     6.7     24.9    136.3     93.5     27.9       .4
    VEL=     2.2      4.5     11.6      4.5      2.3       .3
  DEPTH=     1.0      3.1      5.2      3.1      1.1       .1

*SECNO  .210

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9900.0   10021.0  TYPE=      1  TARGET=      121.000
      .210      5.99   2007.29   2006.28   2006.88   2007.92       .63      6.21       .03   2002.00
    2191.0    1195.0     831.5     164.5     319.3      90.2      46.5    1630.0     371.9   2002.00
      2.09      3.74      9.22      3.54      .100      .055      .100      .000   2001.30   9900.00
   .011670      500.      396.      275.         4        15         0       .00    121.00  10021.00
```

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .21 CWSEL= 2007.29

STA=	9900.	9955.	9989.	10005.	10012.	10018.	10021.
PER Q=	26.4	28.2	38.0	5.7	1.7	.2	
AREA=	173.5	145.8	90.2	30.0	13.7	2.7	
VEL=	3.3	4.2	9.2	4.1	2.7	1.3	
DEPTH=	3.2	4.3	5.6	4.3	2.3	.9	

*SECNO .280

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .66

3470 ENCROACHMENT STATIONS= 9910.0 10013.0 TYPE= 1 TARGET= 103.000

.280	4.31	2013.31	2012.74	2012.39	2014.22	.91	6.29	.01	2009.90
2191.0	1346.8	785.6	58.6	256.2	73.1	15.0	1633.4	372.8	2010.00
2.11	5.26	10.75	3.89	.100	.055	.100	.000	2009.00	9910.00
.026487	350.	397.	460.	3	14	0	.00	103.00	10013.00

FLOW DISTRIBUTION FOR SECNO= .28 CWSEL= 2013.31

	9910.	9940.	9987.	10006.	10012.	10013.
PER Q=	22.3	39.1	35.9	2.6	.1	
AREA=	98.2	158.0	73.1	13.9	1.2	
VEL=	5.0	5.4	10.8	4.1	1.7	
DEPTH=	3.3	3.4	3.8	2.3	1.2	

*SECNO .340

3470 ENCROACHMENT STATIONS= 9910.0 10012.0 TYPE= 1 TARGET= 102.000

.340	5.39	2019.39	2018.04	2018.70	2019.95	.56	5.72	.01	2014.00
2191.0	1566.9	618.8	5.2	328.3	73.5	3.1	1635.8	373.5	2018.00
2.12	4.77	8.42	1.66	.100	.055	.100	.000	2014.00	9910.00
.016033	275.	295.	310.	3	10	0	.00	102.00	10012.00

FLOW DISTRIBUTION FOR SECNO= .34 CWSEL= 2019.39

STA=	9910.	9914.	9934.	9991.	10009.	10012.
PER Q=	1.6	12.5	57.5	28.2	.2	
AREA=	12.8	65.7	249.9	73.5	3.1	
VEL=	2.8	4.2	5.0	8.4	1.7	
DEPTH=	3.2	3.3	4.4	4.1	1.1	

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .400

3470 ENCROACHMENT STATIONS=     9920.0   10045.0  TYPE=      1  TARGET=      125.000
      .400      4.88   2023.88   2023.46   2023.38   2024.81       .93      4.84       .02   2020.00
    2191.0     576.6    1361.0     253.5     170.9     144.6      63.1    1638.4     374.2   2020.00
      2.13      3.37      9.41      4.02      .100      .055      .100      .000   2019.00   9920.00
   .017007      260.      320.      360.         3        15         0       .00    125.00  10045.00


FLOW DISTRIBUTION FOR SECNO=       .40          CWSEL=   2023.88

STA=    9920.    9946.    9971.    9994.   10027.   10045.
  PER Q=      8.1      6.3     11.8     62.1     11.6
   AREA=     57.7     47.0     66.3    144.6     63.1
    VEL=      3.1      3.0      3.9      9.4      4.0
  DEPTH=      2.2      1.9      2.9      4.4      3.5

*SECNO  .470
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9972.0   10100.0  TYPE=      1  TARGET=      128.000
      .470      4.80   2032.60   2032.60   2032.68   2033.81      1.21      8.54       .01   2028.00
    2191.0     240.9     654.9    1295.2      45.5      47.0     244.2    1641.4     375.2   2028.00
      2.14      5.30     13.94      5.30      .100      .055      .100      .000   2027.80   9972.61
   .033880      370.      385.      340.         0         5         0       .00    127.39  10100.00


FLOW DISTRIBUTION FOR SECNO=       .47          CWSEL=   2032.60

STA=    9973.    9975.    9985.    9993.   10003.   10037.   10100.
  PER Q=       .0      2.7      8.3     29.9     35.8     23.3
   AREA=       .7     16.0     28.8     47.0    122.3    121.9
    VEL=      1.2      3.7      6.3     13.9      6.4      4.2
  DEPTH=       .3      1.6      3.6      4.7      3.6      1.9

*SECNO  .570

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.43
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9925.0 10040.0 TYPE= 1 TARGET= 115.000

.570	6.04	2044.04	2043.25	2043.88	2044.82	.77	11.00	.01	2038.00
2191.0	1157.8	556.3	476.9	249.6	48.3	101.4	1645.4	376.6	2038.00
2.17	4.64	11.51	4.70	.100	.055	.100	.000	2038.00	9925.00
.016477	465.	500.	480.	5	8	0	.00	115.00	10040.00

FLOW DISTRIBUTION FOR SECNO= .57 CWSEL= 2044.04

STA=	9925.	9950.	9973.	10000.	10008.	10020.	10030.	10040.
PER Q=	5.3	12.8	34.8	25.4	15.4	5.5	.9	
AREA=	43.5	70.0	136.2	48.3	60.5	30.4	10.4	
VEL=	2.7	4.0	5.6	11.5	5.6	4.0	1.9	
DEPTH=	1.7	3.0	5.0	6.0	5.0	3.0	1.0	

THIS RUN EXECUTED 14JUL92 13:16:12

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1991
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

6-22-92 APACHE WASH --

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	.200	.00	.00	.00	1646.00	17136.00	1659.64	1658.43	1660.43	50.37	9.59	3223.15	2414.53
	.200	.00	.00	.00	1646.00	17136.00	1659.76	1658.31	1660.58	50.23	9.64	3005.99	2417.82
	.330	650.00	.00	.00	1652.20	17136.00	1662.78	1660.79	1663.51	55.69	7.97	2938.07	2296.34
	.330	650.00	.00	.00	1652.20	17136.00	1662.99	1660.54	1663.88	60.44	8.45	2454.38	2204.25
	.430	500.00	.00	.00	1655.00	17136.00	1665.53	1663.82	1666.13	54.19	8.47	3326.14	2327.85
	.430	500.00	.00	.00	1655.00	17136.00	1666.00	1664.46	1666.86	65.31	9.61	2665.98	2120.41
	.540	640.00	.00	.00	1660.00	17136.00	1669.04	1668.39	1669.84	90.98	10.52	2924.97	1796.56
	.540	640.00	.00	.00	1660.00	17136.00	1670.02	1669.12	1671.01	84.69	10.92	2571.79	1862.08
	.630	500.00	.00	.00	1664.00	17136.00	1672.90	1671.68	1673.50	67.95	8.91	3317.47	2078.84
	.630	500.00	.00	.00	1664.00	17136.00	1673.60	1671.82	1674.25	58.37	8.72	2972.08	2242.88
	.710	400.00	.00	.00	1664.00	17136.00	1675.34	1674.34	1676.27	68.01	9.88	2837.63	2077.92
	.710	400.00	.00	.00	1664.00	17136.00	1675.77	1674.12	1676.79	64.79	9.93	2494.44	2128.83
	.750	200.00	.00	.00	1666.00	17136.00	1676.96	1675.47	1677.41	39.49	7.68	4016.22	2726.83
	.750	200.00	.00	.00	1666.00	17136.00	1677.24	1675.17	1678.02	53.45	9.10	2806.22	2343.88
*	.840	440.00	.00	.00	1670.00	17136.00	1679.29	1677.45	1679.90	84.85	8.41	2907.69	1860.29
	.840	440.00	.00	.00	1670.00	17136.00	1680.00	1677.44	1680.71	72.58	8.19	2601.54	2011.35
	.990	900.00	.00	.00	1678.00	17136.00	1684.13	1682.73	1684.39	58.36	6.68	4533.90	2243.15
	.990	900.00	.00	.00	1678.00	17136.00	1684.84	1682.83	1685.36	69.00	7.84	3081.20	2062.98
*	1.090	500.00	.00	.00	1680.00	17136.00	1687.53	1687.53	1688.54	99.39	12.06	3365.82	1718.87
	1.090	500.00	.00	.00	1680.00	17136.00	1688.10	1687.89	1689.71	113.31	13.56	2191.81	1609.84
	1.180	500.00	.00	.00	1680.00	17136.00	1691.48	1691.32	1692.81	93.29	11.26	2567.84	1774.14
	1.180	500.00	.00	.00	1680.00	17136.00	1692.44	1691.02	1693.54	67.05	10.13	2491.74	2092.68

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	1.270	460.00	.00	.00	1684.00	17136.00	1695.18	1692.32	1695.66	39.86	7.22	3430.90	2714.05
	1.270	460.00	.00	.00	1684.00	17136.00	1695.48	1692.25	1696.07	41.66	7.53	2995.04	2654.93
*	1.370	500.00	.00	.00	1688.00	17136.00	1697.50	1696.53	1698.46	86.86	10.09	2544.40	1838.66
	1.370	500.00	.00	.00	1688.00	17136.00	1697.81	1696.48	1698.67	73.71	9.53	2643.94	1995.97
	1.470	500.00	.00	.00	1690.00	17136.00	1701.17	1699.58	1701.92	56.77	9.53	2973.87	2274.22
	1.470	500.00	.00	.00	1690.00	17136.00	1701.16	1699.68	1701.98	60.53	9.82	2812.22	2202.59
	1.560	500.00	.00	.00	1692.00	17136.00	1703.88	1702.90	1704.76	70.06	10.07	2798.88	2047.32
	1.560	500.00	.00	.00	1692.00	17136.00	1704.04	1702.96	1705.12	78.19	10.75	2459.19	1937.88
	1.600	180.00	.00	.00	1692.00	17136.00	1705.16	1703.45	1705.84	47.41	9.36	3171.29	2488.83
	1.600	180.00	.00	.00	1692.00	17136.00	1705.49	1703.41	1706.28	48.82	9.68	2833.35	2452.55
	1.660	250.00	.00	.00	1696.00	17136.00	1706.48	1704.02	1707.22	54.69	8.75	2779.75	2317.12
	1.660	250.00	.00	.00	1696.00	17136.00	1706.87	1703.94	1707.59	48.72	8.48	2744.23	2455.01
	1.750	500.00	.00	.00	1698.00	17136.00	1709.30	1707.82	1710.31	64.23	9.87	2572.78	2138.20
	1.750	500.00	.00	.00	1698.00	17136.00	1709.45	1707.69	1710.56	65.64	10.09	2348.96	2115.04
	1.810	300.00	.00	.00	1700.00	17136.00	1711.15	1708.59	1711.73	41.02	7.88	3195.51	2675.52
	1.810	300.00	.00	.00	1700.00	17136.00	1711.39	1708.75	1711.96	38.55	7.76	3165.73	2759.99
	1.850	190.00	.00	.00	1700.00	17136.00	1711.91	1709.49	1712.40	35.86	6.89	3531.81	2861.65
	1.850	190.00	.00	.00	1700.00	17136.00	1712.12	1709.58	1712.59	33.83	6.79	3526.97	2946.31
	1.880	200.00	.00	.00	1702.10	17136.00	1712.76	1711.16	1713.31	51.01	8.98	3403.05	2399.20
	1.880	200.00	.00	.00	1702.10	17136.00	1712.91	1711.17	1713.48	50.47	9.02	3309.75	2412.11
	2.000	490.00	.00	.00	1708.50	17136.00	1715.00	1713.82	1715.58	89.24	8.72	3046.04	1813.98
	2.000	490.00	.00	.00	1708.50	17136.00	1715.12	1713.78	1715.69	84.35	8.59	3047.33	1865.85
	2.080	440.00	.00	.00	1710.00	17136.00	1717.94	1716.71	1718.59	102.64	8.08	2752.13	1691.46
	2.080	440.00	.00	.00	1710.00	17136.00	1718.00	1716.78	1718.75	109.88	8.43	2542.05	1634.71
	2.170	520.00	.00	.00	1714.00	17136.00	1721.61	1720.17	1722.35	77.93	8.89	2796.45	1941.13
	2.170	520.00	.00	.00	1714.00	17136.00	1721.84	1720.06	1722.67	78.14	9.09	2544.39	1938.53
	2.240	380.00	.00	.00	1714.00	17136.00	1724.34	1722.91	1725.58	82.79	10.48	2196.71	1883.28
	2.240	380.00	.00	.00	1714.00	17136.00	1724.56	1722.88	1725.86	81.06	10.54	2083.98	1903.33
	2.330	450.00	.00	.00	1717.00	17136.00	1727.98	1726.37	1729.86	100.27	12.61	1720.22	1711.25
	2.330	450.00	.00	.00	1717.00	17136.00	1728.13	1726.31	1729.99	95.88	12.46	1708.67	1749.99
*	2.400	360.00	.00	.00	1718.00	17136.00	1731.18	1727.30	1732.22	50.24	10.69	2279.66	2417.71
	2.400	360.00	.00	.00	1718.00	17136.00	1731.26	1727.30	1732.28	49.10	10.61	2296.65	2445.58
	2.470	400.00	.00	.00	1720.00	17136.00	1733.38	1729.88	1733.95	32.41	8.01	3183.27	3010.19
	2.470	400.00	.00	.00	1720.00	17136.00	1733.40	1729.82	1734.02	34.05	8.22	3030.50	2936.57

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	2.520	260.00	.00	.00	1722.00	17136.00	1734.29	1731.27	1734.72	27.48	7.21	3766.33	3268.63
	2.520	260.00	.00	.00	1722.00	17136.00	1734.38	1731.27	1734.80	26.89	7.17	3743.66	3304.50
	2.600	430.00	.00	.00	1724.00	17136.00	1735.66	1733.90	1736.21	41.55	8.07	3503.60	2658.27
	2.600	430.00	.00	.00	1724.00	17136.00	1735.72	1733.88	1736.27	40.96	8.04	3471.99	2677.47
*	2.730	750.00	.00	.00	1728.00	13541.00	1738.95	1737.67	1740.21	67.28	11.21	1804.44	1650.86
*	2.730	750.00	.00	.00	1728.00	13541.00	1738.99	1737.70	1740.29	68.09	11.31	1755.40	1641.02
*	2.820	480.00	.00	.00	1729.00	13541.00	1741.74	1738.20	1741.94	14.94	4.62	3982.52	3503.13
*	2.820	480.00	.00	.00	1729.00	13541.00	1741.91	1738.20	1742.16	17.30	5.03	3487.01	3255.62
	2.870	275.00	.00	.00	1732.00	13541.00	1742.40	1738.68	1742.52	10.76	3.32	5037.46	4127.71
	2.870	275.00	.00	.00	1732.00	13541.00	1742.64	1738.98	1742.85	14.49	3.95	3802.29	3557.09
*	2.900	190.00	.00	.00	1733.00	13541.00	1742.63	1740.59	1742.83	23.48	5.50	4109.96	2794.69
	2.900	190.00	.00	.00	1733.00	13541.00	1742.94	1740.52	1743.23	27.07	6.06	3277.55	2602.75
	2.920	140.00	.00	.00	1734.00	13541.00	1743.23	1741.11	1743.38	21.76	4.59	4685.40	2903.09
	2.920	140.00	.00	.00	1734.00	13541.00	1743.62	1741.75	1743.91	33.05	5.89	3288.37	2355.41
*	2.970	270.00	.00	.00	1736.00	7534.00	1744.91	1744.91	1745.97	160.35	11.39	5372.48	594.97
*	2.970	270.00	.00	.00	1736.00	7534.00	1744.99	1744.99	1746.21	151.59	11.19	1059.63	611.92
*	3.070	520.00	.00	.00	1742.00	7534.00	1749.40	1748.05	1749.71	36.21	6.53	2017.77	1252.01
*	3.070	520.00	.00	.00	1742.00	7534.00	1749.71	1748.18	1750.09	39.40	7.00	1767.27	1200.33
	3.130	280.00	.00	.00	1742.00	7534.00	1750.48	1749.76	1750.98	61.42	8.19	1742.37	961.29
	3.130	280.00	.00	.00	1742.00	7534.00	1750.83	1749.90	1751.37	58.35	8.25	1606.49	986.26
	3.210	310.00	.00	.00	1746.00	7534.00	1752.32	1751.61	1752.83	67.54	6.71	1662.43	916.76
	3.210	310.00	.00	.00	1746.00	7534.00	1752.70	1751.83	1753.40	72.85	7.34	1297.63	882.71
	3.320	560.00	.00	.00	1750.00	7534.00	1756.42	1756.00	1756.84	78.13	7.68	1861.32	852.35
	3.320	560.00	.00	.00	1750.00	7534.00	1757.07	1756.40	1757.77	87.56	8.81	1323.08	805.16
	3.400	470.00	.00	.00	1752.00	7534.00	1759.99	1759.60	1760.47	75.38	8.62	1852.59	867.77
	3.400	470.00	.00	.00	1752.00	7534.00	1760.78	1759.80	1761.46	70.85	9.04	1349.21	895.07
	3.480	450.00	.00	.00	1756.00	7534.00	1763.34	1763.06	1763.92	86.48	9.56	1674.78	810.14
	3.480	450.00	.00	.00	1756.00	7534.00	1764.10	1763.20	1765.02	90.39	10.49	1141.01	792.46
	3.520	200.00	.00	.00	1756.00	7534.00	1765.07	1764.98	1765.87	88.24	10.60	1518.81	802.05
	3.520	200.00	.00	.00	1756.00	7534.00	1765.81	1764.95	1766.83	81.63	10.83	1123.04	833.86
	3.600	420.00	.00	.00	1760.00	7534.00	1768.44	1767.61	1768.85	48.60	7.90	1953.25	1080.72
	3.600	420.00	.00	.00	1760.00	7534.00	1769.18	1767.48	1769.75	48.07	8.35	1413.02	1086.67
	3.650	280.00	.00	.00	1762.00	7534.00	1769.78	1768.51	1770.25	53.68	8.08	1842.24	1028.29
	3.650	280.00	.00	.00	1762.00	7534.00	1770.50	1768.39	1770.94	37.59	7.21	1587.25	1228.89

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	3.750	500.00	.00	.00	1764.00	7534.00	1773.02	1772.68	1773.51	79.65	8.56	1766.71	844.20
*	3.750	500.00	.00	.00	1764.00	7534.00	1773.39	1772.50	1774.35	104.64	10.21	1080.20	736.50
	3.780	170.00	.00	.00	1766.00	7534.00	1774.46	1774.12	1775.20	93.81	8.71	1384.60	777.84
	3.780	170.00	.00	.00	1766.00	7534.00	1775.18	1773.85	1775.91	68.78	8.10	1215.73	908.46
	3.860	400.00	.00	.00	1770.00	7213.00	1778.23	1777.33	1778.86	71.86	8.28	1411.47	850.92
	3.860	400.00	.00	.00	1770.00	7213.00	1778.35	1777.41	1779.07	74.88	8.57	1242.81	833.56
	3.960	520.00	.00	.00	1774.00	7213.00	1782.42	1782.14	1783.10	100.84	7.50	1339.46	718.30
	3.960	520.00	.00	.00	1774.00	7213.00	1782.59	1782.12	1783.31	97.09	7.57	1257.49	732.02
	4.050	500.00	.00	.00	1779.00	5347.00	1786.02	1784.62	1786.42	59.02	6.49	1126.25	696.00
	4.050	500.00	.00	.00	1779.00	5347.00	1786.12	1784.62	1786.50	54.13	6.33	1156.90	726.74
*	4.110	250.00	.00	.00	1782.00	5347.00	1788.38	1788.38	1789.57	142.72	11.28	776.32	447.57
*	4.110	250.00	.00	.00	1782.00	5347.00	1788.38	1788.38	1789.58	143.75	11.32	774.03	445.97
*	4.220	280.00	.00	.00	1785.50	5347.00	1791.94	1790.60	1792.21	47.04	5.70	1425.08	779.63
*	4.220	280.00	.00	.00	1785.50	5347.00	1792.17	1790.81	1792.65	68.82	7.11	1060.27	644.56
	4.230	150.00	.00	.00	1786.00	5347.00	1792.66	1791.44	1793.01	55.26	6.53	1266.71	719.29
	4.230	150.00	.00	.00	1786.00	5347.00	1793.10	1791.53	1793.60	60.61	7.23	1044.09	686.82
*	4.310	420.00	.00	.00	1788.00	5347.00	1796.08	1796.08	1797.26	118.13	11.15	825.10	491.97
*	4.310	420.00	.00	.00	1788.00	5347.00	1796.13	1796.13	1797.78	145.34	12.43	642.61	443.52
	4.400	510.00	.00	.00	1792.30	5347.00	1800.58	1799.11	1801.09	52.64	7.59	1080.44	736.94
*	4.400	510.00	.00	.00	1792.30	5347.00	1800.95	1799.21	1801.35	40.41	6.89	1194.09	841.17
	4.490	450.00	.00	.00	1796.00	5347.00	1803.25	1802.48	1804.21	84.92	8.44	796.76	580.24
*	4.490	450.00	.00	.00	1796.00	5347.00	1803.16	1802.49	1804.17	91.18	8.65	771.55	559.97
	4.560	365.00	.00	.00	1799.00	5347.00	1806.08	1804.18	1806.59	50.85	6.73	1027.41	749.83
	4.560	365.00	.00	.00	1799.00	5347.00	1806.11	1804.18	1806.61	49.96	6.69	1034.11	756.46
*	4.570	110.00	.00	.00	1800.00	5463.00	1808.03	1808.03	1808.46	67.12	7.95	1492.63	666.81
*	4.570	110.00	.00	.00	1800.00	5463.00	1808.03	1808.03	1808.51	71.83	8.22	1368.50	644.60
*	4.580	70.00	1807.00	1806.30	1802.00	5739.00	1809.02	.00	1809.11	14.55	3.90	2532.43	1504.68
*	4.580	70.00	1807.00	1806.30	1802.00	5739.00	1809.01	.00	1809.11	16.08	4.10	2306.01	1431.03
	4.600	83.00	.00	.00	1802.00	5873.00	1809.14	1806.89	1809.26	18.49	4.06	2285.88	1365.79
	4.600	83.00	.00	.00	1802.00	5873.00	1809.14	1806.94	1809.26	18.65	4.08	2256.90	1360.08
*	4.650	280.00	.00	.00	1806.00	6053.00	1810.17	1810.17	1811.02	470.42	8.74	881.41	279.08
*	4.650	280.00	.00	.00	1806.00	6053.00	1810.17	1810.17	1811.02	469.78	8.74	881.87	279.27
*	4.740	500.00	.00	.00	1810.00	6928.00	1816.55	1815.40	1816.77	55.54	5.31	1990.07	929.63
*	4.740	500.00	.00	.00	1810.00	6928.00	1816.55	1815.40	1816.77	55.57	5.31	1989.65	929.35

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	4.780	200.00	.00	.00	1813.00	7213.00	1817.31	1816.35	1817.65	98.48	5.47	1553.23	726.84
	4.780	200.00	.00	.00	1813.00	7213.00	1817.31	1816.35	1817.65	98.40	5.47	1553.69	727.15
	4.820	480.00	.00	.00	1817.10	7213.00	1822.32	1821.49	1822.73	113.21	7.55	1458.45	677.90
	4.820	480.00	.00	.00	1817.10	7213.00	1822.32	1821.49	1822.73	113.31	7.56	1455.53	677.60
	4.900	200.00	.00	.00	1820.00	7213.00	1824.49	1824.11	1825.04	138.83	5.90	1207.36	612.16
	4.900	200.00	.00	.00	1820.00	7213.00	1824.52	1824.22	1825.17	148.33	6.16	1121.99	592.24
	4.960	320.00	.00	.00	1822.00	7213.00	1827.78	1827.03	1828.05	101.11	5.97	1797.84	717.32
	4.960	320.00	.00	.00	1822.00	7213.00	1828.20	1827.35	1828.71	133.56	7.35	1297.77	624.13
	5.030	365.00	.00	.00	1826.00	7213.00	1831.43	1830.85	1831.73	112.69	6.47	1752.98	679.48
	5.030	365.00	.00	.00	1826.00	7213.00	1832.18	1831.19	1832.61	96.84	6.72	1417.71	732.98
	5.090	300.00	.00	.00	1830.00	7213.00	1834.36	1833.54	1834.61	80.13	5.84	1876.23	805.80
	5.090	300.00	.00	.00	1830.00	7213.00	1835.19	1834.28	1835.70	103.44	7.73	1333.14	709.20
	5.150	352.00	.00	.00	1830.00	7213.00	1837.47	1837.12	1838.10	116.32	9.32	1362.46	668.80
	5.150	352.00	.00	.00	1830.00	7213.00	1838.31	1837.29	1838.90	78.63	8.48	1332.79	813.44
	5.210	310.00	.00	.00	1834.00	7213.00	1840.74	1840.21	1841.19	86.65	7.76	1573.47	774.88
	5.210	310.00	.00	.00	1834.00	7213.00	1841.07	1840.51	1841.90	116.82	9.43	1106.71	667.34
	5.310	500.00	.00	.00	1838.00	7213.00	1845.53	1845.18	1845.96	107.74	6.35	1698.55	694.90
	5.310	500.00	.00	.00	1838.00	7213.00	1846.53	1845.33	1847.21	97.73	7.03	1152.12	729.64
	5.380	375.00	.00	.00	1841.00	7213.00	1848.85	1848.26	1849.30	73.94	8.65	1653.09	838.85
	5.380	375.00	.00	.00	1841.00	7213.00	1849.76	1848.46	1850.56	80.12	9.84	1115.45	805.86
*	5.480	500.00	.00	.00	1846.00	7213.00	1853.30	1853.30	1854.12	112.76	9.74	1392.49	679.25
	5.480	500.00	.00	.00	1846.00	7213.00	1854.10	1853.49	1855.12	96.91	9.88	1042.70	732.70
	5.570	450.00	.00	.00	1850.00	7213.00	1857.88	1857.32	1858.64	97.23	9.25	1276.87	731.49
	5.570	450.00	.00	.00	1850.00	7213.00	1858.26	1857.26	1859.12	88.58	9.21	1076.74	766.40
*	5.640	345.00	.00	.00	1855.00	7213.00	1860.16	1858.56	1860.49	32.01	5.22	1820.89	1274.79
*	5.640	345.00	.00	.00	1855.00	7213.00	1860.55	1858.61	1861.00	34.23	5.68	1430.85	1232.77
*	5.660	440.00	.00	.00	1854.00	7213.00	1862.29	1862.26	1863.31	168.86	11.16	1084.45	555.07
*	5.660	440.00	.00	.00	1854.00	7213.00	1862.76	1862.17	1863.65	122.81	10.10	1098.46	650.87
*	5.760	540.00	.00	.00	1862.00	7213.00	1868.27	1867.59	1868.86	72.77	8.03	1409.61	845.53
	5.760	540.00	.00	.00	1862.00	7213.00	1868.17	1867.47	1868.85	83.11	8.48	1303.58	791.20
	5.830	380.00	.00	.00	1865.50	7213.00	1871.62	1871.43	1872.45	123.17	9.49	1223.01	649.93
	5.830	380.00	.00	.00	1865.50	7213.00	1871.84	1871.39	1872.88	132.76	10.13	1012.84	626.01
	5.920	400.00	.00	.00	1870.00	7213.00	1876.34	1875.63	1876.90	107.81	7.57	1295.89	694.67
	5.920	400.00	.00	.00	1870.00	7213.00	1876.74	1875.60	1877.43	103.89	7.94	1124.01	707.66

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	6.010	490.00	.00	.00	1875.50	7213.00	1881.73	1881.41	1882.60	116.35	9.72	1151.26	668.70
	6.010	490.00	.00	.00	1875.50	7213.00	1881.89	1881.29	1882.75	106.48	9.49	1135.78	699.00
*	6.090	445.00	.00	.00	1879.50	7187.00	1885.51	1884.50	1885.99	52.96	6.53	1575.55	987.61
	6.090	445.00	.00	.00	1879.50	7187.00	1885.65	1884.38	1886.28	61.30	7.14	1265.23	917.91
*	6.160	360.00	.00	.00	1883.00	7187.00	1889.31	1889.31	1890.51	254.71	10.98	921.55	450.33
*	6.160	360.00	.00	.00	1883.00	7187.00	1889.47	1889.29	1890.53	216.53	10.33	964.51	488.42
*	6.250	460.00	.00	.00	1888.00	7187.00	1895.03	1894.18	1895.53	62.18	7.37	1559.71	911.44
*	6.250	460.00	.00	.00	1888.00	7187.00	1895.27	1894.35	1896.07	79.78	8.60	1167.35	804.63
*	6.320	390.00	.00	.00	1890.00	7187.00	1898.46	1898.46	1899.71	172.84	10.79	956.79	546.67
	6.320	390.00	.00	.00	1890.00	7187.00	1898.85	1898.34	1899.86	128.26	9.68	1010.07	634.60
*	6.430	450.00	.00	.00	1896.50	7187.00	1903.42	1902.37	1903.94	60.13	7.98	1465.41	926.81
	6.430	450.00	.00	.00	1896.50	7187.00	1903.58	1902.73	1904.53	91.29	10.01	1058.53	752.21
*	6.500	345.00	.00	.00	1899.00	7187.00	1906.05	1906.05	1907.24	135.72	12.38	1056.58	616.90
	6.500	345.00	.00	.00	1899.00	7187.00	1906.73	1906.22	1908.02	114.99	12.14	937.36	670.21
	6.580	430.00	.00	.00	1902.00	7187.00	1910.89	1910.42	1911.94	89.21	9.76	1094.85	760.91
	6.580	430.00	.00	.00	1902.00	7187.00	1911.20	1910.32	1912.57	96.66	10.47	863.82	731.02
	6.630	290.00	.00	.00	1905.00	7187.00	1914.12	1914.12	1915.55	172.27	11.90	874.06	547.58
	6.630	290.00	.00	.00	1905.00	7187.00	1914.58	1914.06	1916.03	148.58	11.43	804.35	589.62
	6.710	390.00	.00	.00	1907.50	7187.00	1919.00	1918.21	1920.04	84.95	9.68	1068.79	779.75
	6.710	390.00	.00	.00	1907.50	7187.00	1919.14	1917.98	1920.28	86.14	9.84	961.66	774.36
	6.800	495.00	.00	.00	1914.00	7187.00	1923.29	1922.18	1923.83	68.15	7.94	1421.32	870.60
	6.800	495.00	.00	.00	1914.00	7187.00	1923.67	1922.54	1924.52	87.00	9.28	1110.75	770.54
*	6.900	529.00	.00	.00	1920.00	7187.00	1928.18	1927.93	1929.20	167.03	11.48	1110.95	556.09
	6.900	529.00	.00	.00	1920.00	7187.00	1929.11	1928.34	1930.33	145.80	11.57	943.79	595.21
	6.980	437.00	.00	.00	1924.00	7187.00	1933.26	1932.63	1934.23	89.04	9.84	1240.42	761.65
	6.980	437.00	.00	.00	1924.00	7187.00	1933.97	1932.85	1935.32	93.78	10.71	932.02	742.15
	7.080	500.00	.00	.00	1929.00	7187.00	1937.93	1936.93	1939.80	120.31	11.65	750.44	655.23
	7.080	500.00	.00	.00	1929.00	7187.00	1938.50	1936.93	1940.05	91.98	10.67	829.99	749.39
	7.170	500.00	.00	.00	1934.00	7187.00	1943.79	1942.42	1945.41	101.53	10.51	780.94	713.26
	7.170	500.00	.00	.00	1934.00	7187.00	1943.53	1942.42	1945.30	114.98	10.93	744.42	670.26
*	7.280	554.00	.00	.00	1940.80	7187.00	1948.95	1945.45	1949.22	45.30	5.55	1872.36	1067.82
*	7.280	554.00	.00	.00	1940.80	7187.00	1949.03	1945.46	1949.31	45.15	5.59	1817.08	1069.61
*	7.360	446.00	.00	.00	1944.50	7187.00	1951.97	1951.97	1953.55	208.37	11.49	929.53	497.89
*	7.360	446.00	.00	.00	1944.50	7187.00	1952.00	1951.88	1953.76	219.66	11.86	831.49	484.93

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	7.460	500.00	.00	.00	1951.50	7187.00	1959.04	1957.61	1959.93	81.89	8.84	1233.01	794.18
*	7.460	500.00	.00	.00	1951.50	7187.00	1959.29	1957.54	1960.28	81.63	9.04	1088.34	795.47
	7.550	500.00	.00	.00	1956.70	7187.00	1964.00	1962.93	1965.01	129.04	10.44	1139.94	632.68
	7.550	500.00	.00	.00	1956.70	7187.00	1964.16	1962.91	1965.15	120.83	10.27	1139.48	653.82
	7.650	500.00	.00	.00	1961.80	7187.00	1969.66	1968.16	1970.30	85.56	9.02	1479.00	776.98
	7.650	500.00	.00	.00	1961.80	7187.00	1969.73	1968.06	1970.46	91.97	9.41	1328.01	749.41
*	7.740	500.00	.00	.00	1969.10	7187.00	1975.24	1974.59	1976.00	191.02	11.38	1317.86	520.01
*	7.740	500.00	.00	.00	1969.10	7187.00	1975.67	1974.97	1976.66	202.19	12.32	1141.97	505.44
*	7.840	500.00	.00	.00	1974.40	7187.00	1981.96	1980.75	1982.57	92.55	9.28	1545.82	747.05
*	7.840	500.00	.00	.00	1974.40	7187.00	1982.55	1980.77	1983.34	92.38	9.80	1275.64	747.75
	7.890	300.00	.00	.00	1977.00	7187.00	1984.83	1984.25	1985.65	133.93	10.49	1415.29	621.02
	7.890	300.00	.00	.00	1977.00	7187.00	1985.38	1984.35	1986.33	124.32	10.69	1217.82	644.58
	7.980	465.00	.00	.00	1981.80	7187.00	1989.73	1988.97	1990.30	90.73	9.50	1761.27	754.54
	7.980	465.00	.00	.00	1981.80	7187.00	1990.09	1988.87	1990.68	83.45	9.41	1634.16	786.76
*	8.020	235.00	.00	.00	1985.10	7187.00	1992.24	1992.24	1993.68	182.71	12.00	1079.94	531.69
*	8.020	235.00	.00	.00	1985.10	7187.00	1992.33	1992.09	1993.77	175.97	11.89	1030.71	541.79
	8.120	500.00	.00	.00	1989.80	3853.00	1998.69	1996.25	1999.11	49.06	8.06	981.16	550.08
	8.120	500.00	.00	.00	1989.80	3853.00	1998.74	1996.22	1999.19	50.72	8.23	929.75	540.99
	8.210	500.00	.00	.00	1995.40	3853.00	2002.47	2002.47	2004.20	202.44	13.74	516.79	270.80
*	8.210	500.00	.00	.00	1995.40	3853.00	2002.59	2002.59	2004.83	231.07	14.86	421.03	253.47
*	8.310	500.00	.00	.00	2001.30	3853.00	2009.92	2009.26	2010.70	85.25	10.18	878.39	417.30
*	8.310	500.00	.00	.00	2001.30	3853.00	2010.81	2009.10	2012.04	92.86	11.38	571.66	399.84
*	8.400	500.00	.00	.00	2008.70	3853.00	2015.52	2015.52	2016.63	134.87	10.54	714.73	331.77
	8.400	500.00	.00	.00	2008.70	3853.00	2016.09	2015.30	2017.38	124.57	10.74	554.37	345.22
	8.500	500.00	.00	.00	2014.30	3853.00	2021.61	2020.76	2022.37	95.29	9.11	806.81	394.70
	8.500	500.00	.00	.00	2014.30	3853.00	2022.04	2020.83	2023.07	102.54	9.87	621.47	380.49
	-3.960	520.00	.00	.00	1774.00	7213.00	1782.42	.00	1783.10	100.33	7.49	1342.47	720.11
	-3.960	520.00	.00	.00	1774.00	7213.00	1782.59	.00	1783.31	97.08	7.56	1257.56	732.07
*	4.055	290.00	.00	.00	1782.00	1866.00	1785.48	1784.47	1785.65	53.58	4.62	609.63	254.91
*	4.055	290.00	.00	.00	1782.00	1866.00	1785.68	1784.66	1786.03	78.53	5.84	423.50	210.57
*	4.111	250.00	.00	.00	1784.20	1866.00	1787.62	1787.30	1787.86	171.01	6.91	510.97	142.69
	4.111	250.00	.00	.00	1784.20	1866.00	1788.18	1787.55	1788.42	101.23	6.10	501.04	185.46
*	4.233	430.00	.00	.00	1789.00	1866.00	1791.93	1791.18	1792.04	65.30	4.32	763.01	230.92
	4.233	430.00	.00	.00	1789.00	1866.00	1791.94	1791.23	1792.08	75.49	4.67	681.66	214.77

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	4.311	370.00	.00	.00	1792.00	1866.00	1795.18	1794.99	1795.41	139.54	7.60	583.24	157.97
	4.311	370.00	.00	.00	1792.00	1866.00	1795.40	1795.15	1795.66	128.80	7.62	542.69	164.42
	4.499	550.00	.00	.00	1797.50	1866.00	1800.27	1799.69	1800.39	74.46	4.73	771.76	216.24
	4.499	550.00	.00	.00	1797.50	1866.00	1800.31	1799.71	1800.45	77.73	4.90	709.65	211.64
*	4.655	540.00	.00	.00	1802.00	1250.00	1804.35	1803.81	1804.53	80.33	4.71	472.25	139.47
*	4.655	540.00	.00	.00	1802.00	1250.00	1804.48	1803.86	1804.68	77.66	4.80	439.09	141.84
*	4.722	475.00	.00	.00	1807.00	723.00	1809.06	1808.92	1809.38	161.38	5.08	197.75	56.91
*	4.722	475.00	.00	.00	1807.00	723.00	1809.12	1808.90	1809.47	159.98	5.18	169.60	57.16
	4.744	170.00	.00	.00	1809.00	285.00	1810.98	1810.32	1811.06	38.87	2.40	145.03	45.71
	4.744	170.00	.00	.00	1809.00	285.00	1811.02	1810.32	1811.09	36.10	2.36	137.91	47.44
	-8.020	.00	.00	.00	1985.10	7213.00	1992.24	.00	1993.69	184.04	12.04	1079.94	531.69
	-8.020	.00	.00	.00	1985.10	7213.00	1992.33	.00	1993.78	177.31	11.94	1030.57	541.69
*	.090	500.00	.00	.00	1990.20	2191.00	1999.08	1997.28	1999.44	42.46	6.91	662.06	336.23
*	.090	500.00	.00	.00	1990.20	2191.00	1999.09	1997.31	1999.47	43.78	7.02	635.30	331.13
*	.130	207.00	.00	.00	1994.00	2191.00	2000.11	2000.11	2001.68	206.30	11.59	289.18	152.54
*	.130	207.00	.00	.00	1994.00	2191.00	2000.12	2000.12	2001.68	205.28	11.57	289.79	152.92
*	.210	396.00	.00	.00	2001.30	2191.00	2006.88	2005.97	2007.25	92.80	7.81	614.05	227.44
	.210	396.00	.00	.00	2001.30	2191.00	2007.29	2006.28	2007.92	116.70	9.22	455.95	202.82
*	.280	397.00	.00	.00	2009.00	2191.00	2012.39	2012.10	2012.96	313.27	9.73	440.34	123.79
*	.280	397.00	.00	.00	2009.00	2191.00	2013.31	2012.74	2014.22	264.87	10.75	344.34	134.63
	.340	295.00	.00	.00	2014.00	2191.00	2018.70	2017.71	2019.07	160.31	7.45	504.12	173.05
	.340	295.00	.00	.00	2014.00	2191.00	2019.39	2018.04	2019.95	160.33	8.42	404.95	173.03
	.400	320.00	.00	.00	2019.00	2191.00	2023.38	2023.19	2024.14	187.18	9.11	451.93	160.15
	.400	320.00	.00	.00	2019.00	2191.00	2023.88	2023.46	2024.81	170.07	9.41	378.59	168.01
*	.470	385.00	.00	.00	2027.80	2191.00	2032.68	2032.68	2033.68	293.28	13.11	380.53	127.94
*	.470	385.00	.00	.00	2027.80	2191.00	2032.60	2032.60	2033.81	338.80	13.94	336.63	119.03
	.570	500.00	.00	.00	2038.00	2191.00	2043.88	2043.30	2044.69	183.57	11.91	396.65	161.71
*	.570	500.00	.00	.00	2038.00	2191.00	2044.04	2043.25	2044.82	164.77	11.51	399.38	170.69

-92 APACHE WASH --

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	.200	17136.00	1659.64	.00	.00	2.54	858.75	.00
	.200	17136.00	1659.76	.11	.00	.11	589.98	.00
	.330	17136.00	1662.78	.00	3.14	.00	695.64	650.00
	.330	17136.00	1662.99	.21	3.24	.21	400.00	650.00
	.430	17136.00	1665.53	.00	2.75	.00	830.51	500.00
	.430	17136.00	1666.00	.47	3.01	.47	468.00	500.00
	.540	17136.00	1669.04	.00	3.50	.00	858.28	640.00
	.540	17136.00	1670.02	.99	4.02	.99	500.00	640.00
	.630	17136.00	1672.90	.00	3.86	.00	970.95	500.00
	.630	17136.00	1673.60	.70	3.58	.70	518.00	500.00
	.710	17136.00	1675.34	.00	2.43	.00	742.24	400.00
	.710	17136.00	1675.77	.43	2.17	.43	420.00	400.00
	.750	17136.00	1676.96	.00	1.62	.00	1057.94	200.00
	.750	17136.00	1677.24	.28	1.47	.28	464.00	200.00
	.840	17136.00	1679.29	.00	2.33	.00	814.81	440.00
	.840	17136.00	1680.00	.71	2.76	.71	395.00	440.00
	.990	17136.00	1684.13	.00	4.84	.00	1861.43	900.00
	.990	17136.00	1684.84	.71	4.84	.71	619.00	900.00
*	1.090	17136.00	1687.53	.00	3.39	.00	1635.16	500.00
	1.090	17136.00	1688.10	.57	3.25	.57	507.00	500.00
	1.180	17136.00	1691.48	.00	3.96	.00	933.28	500.00
	1.180	17136.00	1692.44	.96	4.34	.96	490.00	500.00
*	1.270	17136.00	1695.18	.00	3.69	.00	696.55	460.00
	1.270	17136.00	1695.48	.31	3.04	.31	410.00	460.00
*	1.370	17136.00	1697.50	.00	2.32	.00	544.58	500.00
	1.370	17136.00	1697.81	.31	2.32	.31	492.00	500.00
	1.470	17136.00	1701.17	.00	3.67	.00	597.88	500.00
	1.470	17136.00	1701.16	-.02	3.35	-.02	490.00	500.00
	1.560	17136.00	1703.88	.00	2.70	.00	601.15	500.00
	1.560	17136.00	1704.04	.16	2.88	.16	447.00	500.00
	1.600	17136.00	1705.16	.00	1.28	.00	619.80	180.00
	1.600	17136.00	1705.49	.33	1.45	.33	439.00	180.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1.660	17136.00	1706.48	.00	1.32	.00	509.33	250.00
	1.660	17136.00	1706.87	.39	1.38	.39	390.00	250.00
	1.750	17136.00	1709.30	.00	2.81	.00	524.72	500.00
	1.750	17136.00	1709.45	.15	2.58	.15	368.00	500.00
	1.810	17136.00	1711.15	.00	1.85	.00	527.56	300.00
	1.810	17136.00	1711.39	.24	1.94	.24	463.00	300.00
	1.850	17136.00	1711.91	.00	.76	.00	631.64	190.00
	1.850	17136.00	1712.12	.20	.73	.20	581.00	190.00
	1.880	17136.00	1712.76	.00	.85	.00	709.32	200.00
	1.880	17136.00	1712.91	.15	.80	.15	639.00	200.00
	2.000	17136.00	1715.00	.00	2.24	.00	850.88	490.00
	2.000	17136.00	1715.12	.12	2.21	.12	791.00	490.00
	2.080	17136.00	1717.94	.00	2.94	.00	776.48	440.00
	2.080	17136.00	1718.00	.07	2.89	.07	650.00	440.00
	2.170	17136.00	1721.61	.00	3.67	.00	643.82	520.00
	2.170	17136.00	1721.84	.23	3.84	.23	451.00	520.00
	2.240	17136.00	1724.34	.00	2.72	.00	398.95	380.00
	2.240	17136.00	1724.56	.22	2.72	.22	305.00	380.00
	2.330	17136.00	1727.98	.00	3.64	.00	241.77	450.00
	2.330	17136.00	1728.13	.15	3.57	.15	212.00	450.00
*	2.400	17136.00	1731.18	.00	3.20	.00	249.92	360.00
	2.400	17136.00	1731.26	.08	3.13	.08	247.00	360.00
	2.470	17136.00	1733.38	.00	2.20	.00	429.52	400.00
	2.470	17136.00	1733.40	.02	2.14	.02	370.00	400.00
	2.520	17136.00	1734.29	.00	.91	.00	590.26	260.00
	2.520	17136.00	1734.38	.08	.98	.08	535.00	260.00
	2.600	17136.00	1735.66	.00	1.37	.00	704.15	430.00
	2.600	17136.00	1735.72	.06	1.34	.06	650.00	430.00
*	2.730	13541.00	1738.95	.00	3.29	.00	340.79	750.00
*	2.730	13541.00	1738.99	.05	3.28	.05	293.00	750.00
*	2.820	13541.00	1741.74	.00	2.79	.00	690.57	480.00
*	2.820	13541.00	1741.91	.16	2.91	.16	520.00	480.00
	2.870	13541.00	1742.40	.00	.65	.00	1148.42	275.00
	2.870	13541.00	1742.64	.24	.73	.24	640.00	275.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2.900	13541.00	1742.63	.00	.23	.00	1185.96	190.00
	2.900	13541.00	1742.94	.31	.30	.31	723.56	190.00
	2.920	13541.00	1743.23	.00	.60	.00	1506.33	140.00
	2.920	13541.00	1743.62	.39	.68	.39	840.00	140.00
*	2.970	7534.00	1744.91	.00	1.67	.00	1721.99	270.00
*	2.970	7534.00	1744.99	.08	1.37	.08	369.50	270.00
*	3.070	7534.00	1749.40	.00	4.49	.00	550.95	520.00
*	3.070	7534.00	1749.71	.31	4.72	.31	410.00	520.00
	3.130	7534.00	1750.48	.00	1.08	.00	638.33	280.00
	3.130	7534.00	1750.83	.35	1.13	.35	468.00	280.00
	3.210	7534.00	1752.32	.00	1.84	.00	765.59	310.00
	3.210	7534.00	1752.70	.38	1.86	.38	390.00	310.00
	3.320	7534.00	1756.42	.00	4.10	.00	1080.53	560.00
	3.320	7534.00	1757.07	.65	4.37	.65	375.00	560.00
	3.400	7534.00	1759.99	.00	3.57	.00	963.17	470.00
	3.400	7534.00	1760.78	.79	3.70	.79	340.00	470.00
	3.480	7534.00	1763.34	.00	3.35	.00	875.07	450.00
	3.480	7534.00	1764.10	.76	3.32	.76	270.00	450.00
	3.520	7534.00	1765.07	.00	1.72	.00	787.51	200.00
	3.520	7534.00	1765.81	.74	1.71	.74	241.00	200.00
	3.600	7534.00	1768.44	.00	3.38	.00	819.97	420.00
	3.600	7534.00	1769.18	.73	3.37	.73	269.00	420.00
	3.650	7534.00	1769.78	.00	1.34	.00	675.40	280.00
	3.650	7534.00	1770.50	.72	1.32	.72	290.00	280.00
	3.750	7534.00	1773.02	.00	3.24	.00	962.78	500.00
*	3.750	7534.00	1773.39	.37	2.89	.37	260.00	500.00
	3.780	7534.00	1774.46	.00	1.44	.00	869.24	170.00
	3.780	7534.00	1775.18	.72	1.80	.72	276.00	170.00
	3.860	7213.00	1778.23	.00	3.77	.00	586.08	400.00
	3.860	7213.00	1778.35	.12	3.16	.12	380.00	400.00
	3.960	7213.00	1782.42	.00	4.20	.00	724.88	520.00
	3.960	7213.00	1782.59	.16	4.24	.16	556.00	520.00
	4.050	5347.00	1786.02	.00	3.60	.00	303.87	500.00
	4.050	5347.00	1786.12	.10	3.53	.10	302.00	500.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	4.110	5347.00	1788.38	.00	2.36	.00	314.65	250.00
*	4.110	5347.00	1788.38	.00	2.26	.00	314.07	250.00
*	4.220	5347.00	1791.94	.00	3.56	.00	486.63	280.00
*	4.220	5347.00	1792.17	.23	3.79	.23	302.00	280.00
	4.230	5347.00	1792.66	.00	.72	.00	435.24	150.00
	4.230	5347.00	1793.10	.44	.93	.44	267.00	150.00
*	4.310	5347.00	1796.08	.00	3.42	.00	349.55	420.00
*	4.310	5347.00	1796.13	.05	3.04	.05	194.00	420.00
*	4.400	5347.00	1800.58	.00	4.50	.00	309.31	510.00
*	4.400	5347.00	1800.95	.36	4.81	.36	311.00	510.00
	4.490	5347.00	1803.25	.00	2.66	.00	282.12	450.00
*	4.490	5347.00	1803.16	-.09	2.21	-.09	273.00	450.00
	4.560	5347.00	1806.08	.00	2.84	.00	272.27	365.00
	4.560	5347.00	1806.11	.03	2.95	.03	272.00	365.00
*	4.570	5463.00	1808.03	.00	1.95	.00	743.36	110.00
*	4.570	5463.00	1808.03	.00	1.92	.00	590.00	110.00
*	4.580	5739.00	1809.02	.00	.99	.00	763.54	70.00
*	4.580	5739.00	1809.01	-.01	.98	-.01	600.00	70.00
	4.600	5873.00	1809.14	.00	.12	.00	646.85	83.00
	4.600	5873.00	1809.14	.00	.13	.00	610.00	83.00
*	4.650	6053.00	1810.17	.00	1.03	.00	538.24	280.00
*	4.650	6053.00	1810.17	.00	1.03	.00	538.28	280.00
*	4.740	6928.00	1816.55	.00	6.38	.00	866.74	500.00
*	4.740	6928.00	1816.55	.00	6.38	.00	866.63	500.00
	4.780	7213.00	1817.31	.00	.76	.00	634.27	200.00
	4.780	7213.00	1817.31	.00	.76	.00	634.32	200.00
	4.820	7213.00	1822.32	.00	5.01	.00	639.30	480.00
	4.820	7213.00	1822.32	.00	5.01	.00	623.75	480.00
	4.900	7213.00	1824.49	.00	2.17	.00	641.28	200.00
	4.900	7213.00	1824.52	.03	2.21	.03	515.00	200.00
	4.960	7213.00	1827.78	.00	3.29	.00	927.56	320.00
	4.960	7213.00	1828.20	.42	3.68	.42	450.00	320.00
	5.030	7213.00	1831.43	.00	3.65	.00	964.40	365.00
	5.030	7213.00	1832.18	.75	3.98	.75	450.00	365.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	5.090	7213.00	1834.36	.00	2.93	.00	993.99	300.00
	5.090	7213.00	1835.19	.83	3.01	.83	430.00	300.00
	5.150	7213.00	1837.47	.00	3.11	.00	561.18	352.00
	5.150	7213.00	1838.31	.84	3.12	.84	368.00	352.00
	5.210	7213.00	1840.74	.00	3.27	.00	701.72	310.00
	5.210	7213.00	1841.07	.33	2.77	.33	325.00	310.00
	5.310	7213.00	1845.53	.00	4.79	.00	1013.77	500.00
	5.310	7213.00	1846.53	1.00	5.46	1.00	292.00	500.00
	5.380	7213.00	1848.85	.00	3.32	.00	794.37	375.00
	5.380	7213.00	1849.76	.90	3.22	.90	240.00	375.00
*	5.480	7213.00	1853.30	.00	4.45	.00	738.76	500.00
	5.480	7213.00	1854.10	.79	4.34	.79	260.00	500.00
	5.570	7213.00	1857.88	.00	4.58	.00	559.94	450.00
	5.570	7213.00	1858.26	.38	4.17	.38	238.00	450.00
*	5.640	7213.00	1860.16	.00	2.28	.00	613.95	345.00
*	5.640	7213.00	1860.55	.38	2.28	.38	310.00	345.00
*	5.660	7213.00	1862.29	.00	2.13	.00	586.75	440.00
*	5.660	7213.00	1862.76	.47	2.21	.47	320.00	440.00
	5.760	7213.00	1868.27	.00	5.98	.00	456.99	540.00
	5.760	7213.00	1868.17	-.10	5.41	-.10	395.01	540.00
	5.830	7213.00	1871.62	.00	3.36	.00	510.24	380.00
	5.830	7213.00	1871.84	.21	3.67	.21	300.00	380.00
	5.920	7213.00	1876.34	.00	4.71	.00	528.79	400.00
	5.920	7213.00	1876.74	.40	4.90	.40	310.00	400.00
	6.010	7213.00	1881.73	.00	5.39	.00	400.39	490.00
	6.010	7213.00	1881.89	.17	5.15	.17	330.00	490.00
*	6.090	7187.00	1885.51	.00	3.79	.00	538.13	445.00
	6.090	7187.00	1885.65	.14	3.76	.14	310.00	445.00
*	6.160	7187.00	1889.31	.00	3.80	.00	362.46	360.00
*	6.160	7187.00	1889.47	.16	3.82	.16	345.00	360.00
*	6.250	7187.00	1895.03	.00	5.72	.00	526.31	460.00
*	6.250	7187.00	1895.27	.24	5.81	.24	300.00	460.00
*	6.320	7187.00	1898.46	.00	3.43	.00	405.89	390.00
	6.320	7187.00	1898.85	.39	3.58	.39	283.00	390.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	6.430	7187.00	1903.42	.00	4.96	.00	427.32	450.00
	6.430	7187.00	1903.58	.16	4.73	.16	240.00	450.00
*	6.500	7187.00	1906.05	.00	2.64	.00	382.25	345.00
	6.500	7187.00	1906.73	.68	3.15	.68	222.00	345.00
	6.580	7187.00	1910.89	.00	4.83	.00	351.10	430.00
	6.580	7187.00	1911.20	.32	4.47	.32	174.00	430.00
	6.630	7187.00	1914.12	.00	3.24	.00	294.60	290.00
	6.630	7187.00	1914.58	.46	3.38	.46	158.00	290.00
*	6.710	7187.00	1919.00	.00	4.88	.00	292.50	390.00
	6.710	7187.00	1919.14	.14	4.56	.14	185.00	390.00
	6.800	7187.00	1923.29	.00	4.29	.00	369.20	495.00
	6.800	7187.00	1923.67	.38	4.53	.38	237.00	495.00
*	6.900	7187.00	1928.18	.00	4.89	.00	414.56	529.00
	6.900	7187.00	1929.11	.93	5.45	.93	202.00	529.00
	6.980	7187.00	1933.26	.00	5.08	.00	365.38	437.00
	6.980	7187.00	1933.97	.71	4.86	.71	175.00	437.00
	7.080	7187.00	1937.93	.00	4.67	.00	140.52	500.00
	7.080	7187.00	1938.50	.57	4.53	.57	140.00	500.00
	7.170	7187.00	1943.79	.00	5.86	.00	145.68	500.00
	7.170	7187.00	1943.53	-.26	5.03	-.26	143.01	500.00
*	7.280	7187.00	1948.95	.00	5.16	.00	324.10	554.00
*	7.280	7187.00	1949.03	.08	5.50	.08	287.80	554.00
*	7.360	7187.00	1951.97	.00	3.01	.00	299.24	446.00
*	7.360	7187.00	1952.00	.04	2.97	.04	215.30	446.00
*	7.460	7187.00	1959.04	.00	7.07	.00	291.90	500.00
*	7.460	7187.00	1959.29	.25	7.29	.25	187.00	500.00
	7.550	7187.00	1964.00	.00	4.96	.00	259.73	500.00
	7.550	7187.00	1964.16	.16	4.87	.16	237.56	500.00
	7.650	7187.00	1969.66	.00	5.66	.00	336.89	500.00
	7.650	7187.00	1969.73	.07	5.57	.07	250.00	500.00
*	7.740	7187.00	1975.24	.00	5.59	.00	382.95	500.00
*	7.740	7187.00	1975.67	.42	5.94	.42	281.00	500.00
*	7.840	7187.00	1981.96	.00	6.71	.00	393.52	500.00
*	7.840	7187.00	1982.55	.59	6.88	.59	225.00	500.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	7.890	7187.00	1984.83	.00	2.87	.00	480.93	300.00
	7.890	7187.00	1985.38	.55	2.83	.55	280.00	300.00
	7.980	7187.00	1989.73	.00	4.91	.00	535.20	465.00
	7.980	7187.00	1990.09	.35	4.71	.35	375.00	465.00
*	8.020	7187.00	1992.24	.00	2.50	.00	415.18	235.00
*	8.020	7187.00	1992.33	.09	2.24	.09	285.00	235.00
	8.120	3853.00	1998.69	.00	6.45	.00	207.55	500.00
	8.120	3853.00	1998.74	.05	6.41	.05	169.87	500.00
*	8.210	3853.00	2002.47	.00	3.78	.00	150.10	500.00
*	8.210	3853.00	2002.59	.13	3.86	.13	96.00	500.00
*	8.310	3853.00	2009.92	.00	7.45	.00	293.92	500.00
*	8.310	3853.00	2010.81	.89	8.21	.89	87.00	500.00
*	8.400	3853.00	2015.52	.00	5.60	.00	290.67	500.00
	8.400	3853.00	2016.09	.57	5.28	.57	123.00	500.00
	8.500	3853.00	2021.61	.00	6.09	.00	274.03	500.00
	8.500	3853.00	2022.04	.43	5.96	.43	123.00	500.00
	-3.960	7213.00	1782.42	.00	-239.19	.00	725.47	520.00
	-3.960	7213.00	1782.59	.16	-239.46	.16	556.00	520.00
	4.055	1866.00	1785.48	.00	3.05	.00	344.92	290.00
*	4.055	1866.00	1785.68	.20	3.09	.20	171.00	290.00
*	4.111	1866.00	1787.62	.00	2.14	.00	435.70	250.00
	4.111	1866.00	1788.18	.57	2.51	.57	258.00	250.00
*	4.233	1866.00	1791.93	.00	4.32	.00	580.90	430.00
	4.233	1866.00	1791.94	.01	3.76	.01	486.70	430.00
*	4.311	1866.00	1795.18	.00	3.25	.00	597.74	370.00
	4.311	1866.00	1795.40	.22	3.46	.22	448.00	370.00
	4.499	1866.00	1800.27	.00	5.09	.00	734.92	550.00
	4.499	1866.00	1800.31	.04	4.90	.04	619.00	550.00
*	4.655	1250.00	1804.35	.00	4.09	.00	531.79	540.00
*	4.655	1250.00	1804.48	.12	4.17	.12	434.00	540.00
*	4.722	723.00	1809.06	.00	4.71	.00	237.00	475.00
*	4.722	723.00	1809.12	.06	4.64	.06	147.56	475.00
	4.744	285.00	1810.98	.00	1.92	.00	155.42	170.00
	4.744	285.00	1811.02	.04	1.90	.04	117.00	170.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	-8.020	7213.00	1992.24	.00	181.26	.00	415.18	.00
	-8.020	7213.00	1992.33	.09	181.31	.09	285.00	.00
*	.090	2191.00	1999.08	.00	6.85	.00	171.72	500.00
*	.090	2191.00	1999.09	.01	6.76	.01	149.65	500.00
*	.130	2191.00	2000.11	.00	1.03	.00	101.21	207.00
*	.130	2191.00	2000.12	.01	1.03	.01	101.47	207.00
*	.210	2191.00	2006.88	.00	6.77	.00	217.39	396.00
	.210	2191.00	2007.29	.41	7.17	.41	121.00	396.00
*	.280	2191.00	2012.39	.00	5.51	.00	216.48	397.00
*	.280	2191.00	2013.31	.93	6.02	.93	103.00	397.00
	.340	2191.00	2018.70	.00	6.31	.00	178.35	295.00
	.340	2191.00	2019.39	.69	6.08	.69	102.00	295.00
	.400	2191.00	2023.38	.00	4.68	.00	215.99	320.00
	.400	2191.00	2023.88	.50	4.49	.50	125.00	320.00
*	.470	2191.00	2032.68	.00	9.30	.00	164.43	385.00
*	.470	2191.00	2032.60	-.08	8.72	-.08	127.39	385.00
	.570	2191.00	2043.88	.00	11.20	.00	134.28	500.00
*	.570	2191.00	2044.04	.17	11.45	.17	115.00	500.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=      .840  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     1.090  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.090  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     1.270  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.370  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.400  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.730  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.730  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.820  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.820  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.900  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     2.970  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.970  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     2.970  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.970  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     3.070  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.070  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.750  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.110  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     4.110  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.110  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     4.220  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.220  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     4.310  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.310  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     4.310  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.310  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     4.400  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.400  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.490  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     4.570  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.570  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     4.570  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.570  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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WARNING SECNO=     4.580  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.580  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     4.650  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.650  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     4.650  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.650  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     4.740  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.740  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     5.480  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     5.480  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     5.640  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.640  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.660  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.660  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.760  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     6.090  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     6.160  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     6.160  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     6.160  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     6.250  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     6.250  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     6.320  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     6.320  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     6.430  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     6.500  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     6.500  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     6.710  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     6.900  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.280  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.280  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     7.360  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     7.360  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     7.360  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.460  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     7.460  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     7.740  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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NG SECNO=      7.740  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      7.840  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      7.840  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      8.020  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      8.020  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=      8.020  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      8.210  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      8.210  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      8.210  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      8.210  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      8.310  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      8.310  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      8.400  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      8.400  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      4.055  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      4.055  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      4.111  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      4.233  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      4.311  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

ING SECNO=      4.655  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      4.655  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      4.722  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      4.722  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=       .090  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=       .090  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=       .130  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .130  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .130  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .130  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=       .210  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=       .280  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=       .280  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=       .470  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .470  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .470  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .470  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=       .570  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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way width summary: 6-22-92 APACHE WASH --
le No. 2

Section Number	Elevation Increase	Top Width	Left Encroach Station	Left Sta Distance From Center	Center Station	Right Sta Distance From Center	Right Encroach Station
.200	.11	590.00	9600.00	403.57	10003.57	186.43	10190.00
.330	.21	400.00	9900.00	105.00	10005.00	295.00	10300.00
.430	.47	468.00	9900.00	92.50	9992.50	375.50	10368.00
.540	.99	500.00	9840.00	156.01	9996.01	343.99	10340.00
.630	.70	518.00	9662.00	343.66	10005.66	174.34	10180.00
.710	.43	420.00	9730.00	292.25	10022.25	127.75	10150.00
.750	.28	464.00	9750.00	235.77	9985.77	228.23	10214.00
.840	.71	395.00	9885.00	117.50	10002.50	277.50	10280.00
.990	.71	619.00	9931.00	66.85	9997.85	552.15	10550.00
1.090	.57	507.00	9923.00	76.77	9999.78	430.22	10430.00
1.180	.96	490.00	9885.00	98.18	9983.18	391.82	10375.00
1.270	.31	410.00	9880.00	104.29	9984.29	305.71	10290.00
1.370	.31	492.00	9560.00	421.14	9981.14	70.86	10052.00
1.470	-.02	490.00	9570.00	428.39	9998.39	61.61	10060.00
1.560	.16	447.00	9610.00	379.99	9989.99	67.01	10057.00
1.600	.33	439.00	9610.00	378.34	9988.34	60.66	10049.00
1.660	.39	390.00	9860.00	133.06	9993.05	256.95	10250.00
1.750	.15	368.00	9953.00	68.18	10021.18	299.82	10321.00
1.810	.24	463.00	9947.00	66.20	10013.20	396.80	10410.00
1.850	.20	581.00	9819.00	171.35	9990.35	409.65	10400.00
1.880	.15	639.00	9771.00	229.00	10000.00	410.00	10410.00
2.000	.12	791.00	9969.00	46.00	10015.00	745.00	10760.00
2.080	.07	650.00	9970.00	55.75	10025.75	594.25	10620.00
2.170	.23	451.00	9834.00	168.02	10002.02	282.98	10285.00
2.240	.22	305.00	9850.00	147.50	9997.50	157.50	10155.00
2.330	.15	212.00	9830.00	157.50	9987.50	54.50	10042.00
2.400	.08	247.00	9800.00	200.00	10000.00	47.00	10047.00
2.470	.02	370.00	9940.00	55.03	9995.04	314.96	10310.00
2.520	.08	535.00	9850.00	143.17	9993.17	391.83	10385.00
2.600	.06	650.00	9800.00	187.50	9987.50	462.50	10450.00
2.730	.05	293.00	9787.00	217.15	10004.14	75.86	10080.00
2.820	.16	520.00	9530.00	207.50	9737.50	312.50	10050.00
2.870	.24	640.00	9400.00	171.46	9571.46	468.54	10040.00
2.900	.31	770.00	9530.00	135.00	9665.00	635.00	10300.00
2.920	.39	840.00	9350.00	87.50	9437.50	752.50	10190.00
2.970	.08	369.50	8995.50	37.00	9032.50	332.50	9365.00
3.070	.31	410.00	9740.00	264.03	10004.03	145.97	10150.00
3.130	.35	468.00	9600.00	403.15	10003.14	64.86	10068.00
3.210	.38	390.00	9780.00	267.50	10047.50	122.50	10170.00
3.320	.65	375.00	9800.00	187.71	9987.71	187.29	10175.00
3.400	.79	340.00	9800.00	207.50	10007.50	132.50	10140.00
3.480	.76	270.00	9900.00	102.10	10002.10	167.90	10170.00
3.520	.74	241.00	9900.00	99.51	9999.51	141.49	10141.00
3.600	.73	269.00	9891.00	105.92	9996.92	163.08	10160.00
3.650	.72	290.00	9900.00	92.50	9992.50	197.50	10190.00
3.750	.37	260.00	9960.00	37.50	9997.50	222.50	10220.00
3.780	.72	276.00	9950.00	69.54	10019.54	206.46	10226.00

3.860	.12	380.00	9950.00	64.62	10014.62	315.38	10330.00
3.960	.16	556.00	9877.00	93.17	9970.17	462.83	10433.00
4.050	.10	302.00	9968.00	24.50	9992.50	277.50	10270.00
4.110	.00	318.00	9975.00	24.09	9999.09	293.91	10293.00
4.220	.23	302.00	9780.00	222.50	10002.50	79.50	10082.00
4.230	.44	267.00	9830.00	175.18	10005.18	91.82	10097.00
4.310	.05	194.00	9920.00	80.15	10000.14	113.86	10114.00
4.400	.36	311.00	9938.00	72.00	10010.00	239.00	10249.00
4.490	-.09	273.00	9910.00	94.26	10004.26	178.74	10183.00
4.560	.03	272.00	9944.00	53.50	9997.50	218.50	10216.00
4.570	.00	590.00	9910.00	85.50	9995.50	504.50	10500.00
4.580	-.01	600.00	9900.00	97.00	9997.00	503.00	10500.00
4.600	.00	610.00	9890.00	103.69	9993.69	506.31	10500.00
4.650	.00	540.00	9820.00	218.23	10038.22	321.78	10360.00
4.740	.00	878.00	9822.00	172.66	9994.66	705.34	10700.00
4.780	.00	669.00	9971.00	22.14	9993.14	646.86	10640.00
4.820	.00	624.00	9832.00	160.21	9992.21	463.79	10456.00
4.900	.03	515.00	9825.00	154.00	9979.00	361.00	10340.00
4.960	.42	450.00	9900.00	92.61	9992.61	357.39	10350.00
5.030	.75	450.00	9900.00	93.69	9993.69	356.31	10350.00
5.090	.83	430.00	9890.00	107.50	9997.50	322.50	10320.00
5.150	.84	368.00	9962.00	39.50	10001.50	328.50	10330.00
5.210	.33	325.00	9850.00	150.00	10000.00	175.00	10175.00
5.310	1.00	292.00	9808.00	166.42	9974.42	125.58	10100.00
5.380	.90	240.00	9860.00	140.00	10000.00	100.00	10100.00
5.480	.79	260.00	9860.00	151.23	10011.23	108.77	10120.00
5.570	.38	238.00	9812.00	194.00	10006.00	44.00	10050.00
5.640	.38	310.00	9870.00	192.50	10062.50	117.50	10180.00
5.660	.47	320.00	9800.00	205.01	10005.01	114.99	10120.00
5.760	-.10	395.00	9705.00	300.82	10005.82	94.18	10100.00
5.830	.21	300.00	9820.00	175.00	9995.00	125.00	10120.00
5.920	.40	310.00	9940.00	46.34	9986.34	263.66	10250.00
6.010	.17	330.00	9920.00	67.50	9987.50	262.50	10250.00
6.090	.14	310.00	9920.00	82.50	10002.50	227.50	10230.00
6.160	.16	345.00	9974.00	26.40	10000.39	318.61	10319.00
6.250	.24	300.00	9940.00	63.63	10003.63	236.37	10240.00
6.320	.39	283.00	9957.00	28.67	9985.67	254.33	10240.00
6.430	.16	240.00	9800.00	195.00	9995.00	45.00	10040.00
6.500	.68	222.00	9850.00	153.65	10003.64	68.36	10072.00
6.580	.32	174.00	9926.00	60.48	9986.48	113.52	10100.00
6.630	.46	158.00	9982.00	17.37	9999.37	140.63	10140.00
6.710	.14	185.00	9965.00	27.50	9992.50	157.50	10150.00
6.800	.38	237.00	9800.00	202.54	10002.54	34.46	10037.00
6.900	.93	202.00	9822.00	185.15	10007.15	16.85	10024.00
6.980	.71	175.00	9900.00	103.79	10003.79	71.21	10075.00
7.080	.57	140.00	9926.00	61.47	9987.47	78.53	10066.00
7.170	-.26	146.00	9951.00	50.96	10001.96	95.04	10097.00
7.280	.08	287.80	9755.00	254.69	10009.69	33.11	10042.80
7.360	.04	215.30	9825.00	176.33	10001.33	38.97	10040.30
7.460	.25	187.00	9923.00	87.39	10010.39	99.61	10110.00
7.550	.16	239.00	9911.00	86.29	9997.29	152.71	10150.00
7.650	.07	250.00	9800.00	199.96	9999.96	50.04	10050.00
7.740	.42	281.00	9850.00	145.50	9995.50	135.50	10131.00
7.840	.59	225.00	9885.00	119.50	10004.50	105.50	10110.00

7.890	.55	280.00	9875.00	124.00	9999.00	156.00	10155.00
7.980	.35	375.00	9700.00	299.50	9999.50	75.50	10075.00
8.020	.09	285.00	9825.00	182.00	10007.00	103.00	10110.00
8.120	.05	170.00	9950.00	51.50	10001.50	118.50	10120.00
8.210	.13	96.00	9944.00	52.00	9996.00	44.00	10040.00
8.310	.89	87.00	9978.00	24.00	10002.00	63.00	10065.00
8.400	.57	123.00	9916.00	85.00	10001.00	38.00	10039.00
8.500	.43	123.00	9952.00	56.50	10008.50	66.50	10075.00
-3.960	.16	556.00	9877.00	93.17	9970.17	462.83	10433.00
4.055	.20	171.00	9874.00	111.00	9985.00	60.00	10045.00
4.111	.57	258.00	9807.00	193.00	10000.00	65.00	10065.00
4.233	.01	493.00	9552.00	448.00	10000.00	45.00	10045.00
4.311	.22	448.00	9612.00	388.00	10000.00	60.00	10060.00
4.499	.04	619.00	9441.00	556.50	9997.50	62.50	10060.00
4.655	.12	434.00	9631.00	369.00	10000.00	65.00	10065.00
4.722	.06	148.00	9917.00	83.00	10000.00	65.00	10065.00
4.744	.04	117.00	9938.00	67.00	10005.00	50.00	10055.00
-8.020	.09	285.00	9825.00	182.00	10007.00	103.00	10110.00
.090	.01	151.00	9939.00	59.00	9998.00	92.00	10090.00
.130	.01	102.00	9972.00	28.00	10000.00	74.00	10074.00
.210	.41	121.00	9900.00	97.00	9997.00	24.00	10021.00
.280	.93	103.00	9910.00	86.50	9996.50	16.50	10013.00
.340	.69	102.00	9910.00	90.00	10000.00	12.00	10012.00
.400	.50	125.00	9920.00	90.50	10010.50	34.50	10045.00
.470	-.08	128.00	9972.00	26.00	9998.00	102.00	10100.00
.570	.17	115.00	9925.00	79.00	10004.00	36.00	10040.00

FLOODWAY DATA, 6-22-92 APACHE WASH --
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
.200	590.	3006.	5.7	1659.7	1659.6	.1
.330	400.	2454.	7.0	1663.0	1662.8	.2
.430	468.	2666.	6.4	1666.0	1665.5	.5
.540	500.	2572.	6.7	1670.0	1669.0	1.0
.630	518.	2972.	5.8	1673.6	1672.9	.7
.710	420.	2494.	6.9	1675.7	1675.3	.4
.750	464.	2806.	6.1	1677.3	1677.0	.3
.840	395.	2602.	6.6	1680.0	1679.3	.7
.990	619.	3081.	5.6	1684.8	1684.1	.7
1.090	507.	2192.	7.8	1688.1	1687.5	.6
1.180	490.	2492.	6.9	1692.5	1691.5	1.0
1.270	410.	2995.	5.7	1695.5	1695.2	.3
1.370	492.	2644.	6.5	1697.8	1697.5	.3
1.470	490.	2812.	6.1	1701.2	1701.2	.0
1.560	447.	2459.	7.0	1704.1	1703.9	.2
1.600	439.	2833.	6.0	1705.5	1705.2	.3
1.660	390.	2744.	6.2	1706.9	1706.5	.4
1.750	368.	2349.	7.3	1709.5	1709.3	.2
1.810	463.	3166.	5.4	1711.3	1711.1	.2
1.850	581.	3527.	4.9	1712.1	1711.9	.2
1.880	639.	3310.	5.2	1713.0	1712.8	.2
2.000	791.	3047.	5.6	1715.1	1715.0	.1
2.080	650.	2542.	6.7	1718.0	1717.9	.1
2.170	451.	2544.	6.7	1721.8	1721.6	.2
2.240	305.	2084.	8.2	1724.5	1724.3	.2
2.330	212.	1709.	10.0	1728.2	1728.0	.2
2.400	247.	2297.	7.5	1731.3	1731.2	.1
2.470	370.	3031.	5.7	1733.4	1733.4	.0
2.520	535.	3744.	4.6	1734.4	1734.3	.1
2.600	650.	3472.	4.9	1735.8	1735.7	.1
2.730	293.	1755.	7.7	1738.9	1738.9	.0
2.820	520.	3487.	3.9	1741.9	1741.7	.2
2.870	640.	3802.	3.6	1742.6	1742.4	.2
2.900	770.	3278.	4.1	1742.9	1742.6	.3
2.920	840.	3288.	4.1	1743.6	1743.2	.4
2.970	369.	1060.	7.1	1745.0	1744.9	.1
3.070	410.	1767.	4.3	1749.7	1749.4	.3
3.130	468.	1606.	4.7	1750.9	1750.5	.4
3.210	390.	1298.	5.8	1752.7	1752.3	.4
3.320	375.	1323.	5.7	1757.0	1756.4	.6
3.400	340.	1349.	5.6	1760.8	1760.0	.8
3.480	270.	1141.	6.6	1764.1	1763.3	.8

FLOODWAY DATA, 6-22-92 APACHE WASH --
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
3.520	241.	1123.	6.7	1765.8	1765.1	.7
3.600	269.	1413.	5.3	1769.1	1768.4	.7
3.650	290.	1587.	4.7	1770.5	1769.8	.7
3.750	260.	1080.	7.0	1773.4	1773.0	.4
3.780	276.	1216.	6.2	1775.2	1774.5	.7
3.860	380.	1243.	5.8	1778.3	1778.2	.1
3.960	556.	1257.	5.7	1782.6	1782.4	.2
4.050	302.	1157.	4.6	1786.1	1786.0	.1
4.110	314.	774.	6.9	1788.4	1788.4	.0
4.220	302.	1060.	5.0	1792.1	1791.9	.2
4.230	267.	1044.	5.1	1793.1	1792.7	.4
4.310	194.	643.	8.3	1796.2	1796.1	.1
4.400	311.	1194.	4.5	1801.0	1800.6	.4
4.490	273.	772.	6.9	1803.1	1803.2	-.1
4.560	272.	1034.	5.2	1806.1	1806.1	.0
4.570	590.	1369.	4.0	1808.0	1808.0	.0
4.580	600.	2306.	2.5	1809.0	1809.0	.0
4.600	610.	2257.	2.6	1809.1	1809.1	.0
4.650	538.	882.	6.9	1810.2	1810.2	.0
4.740	867.	1990.	3.5	1816.6	1816.6	.0
4.780	634.	1554.	4.6	1817.3	1817.3	.0
4.820	624.	1456.	5.0	1822.3	1822.3	.0
4.900	515.	1122.	6.4	1824.5	1824.5	.0
4.960	450.	1298.	5.6	1828.2	1827.8	.4
5.030	450.	1418.	5.1	1832.2	1831.4	.8
5.090	430.	1333.	5.4	1835.2	1834.4	.8
5.150	368.	1333.	5.4	1838.3	1837.5	.8
5.210	325.	1107.	6.5	1841.0	1840.7	.3
5.310	292.	1152.	6.3	1846.5	1845.5	1.0
5.380	240.	1115.	6.5	1849.8	1848.9	.9
5.480	260.	1043.	6.9	1854.1	1853.3	.8
5.570	238.	1077.	6.7	1858.3	1857.9	.4
5.640	310.	1431.	5.0	1860.6	1860.2	.4
5.660	320.	1098.	6.6	1862.8	1862.3	.5
5.760	395.	1304.	5.5	1868.2	1868.3	-.1
5.830	300.	1013.	7.1	1871.8	1871.6	.2
5.920	310.	1124.	6.4	1876.7	1876.3	.4
6.010	330.	1136.	6.4	1881.9	1881.7	.2
6.090	310.	1265.	5.7	1885.6	1885.5	.1
6.160	345.	965.	7.5	1889.5	1889.3	.2
6.250	300.	1167.	6.2	1895.2	1895.0	.2
6.320	283.	1010.	7.1	1898.9	1898.5	.4

FLOODWAY DATA, 6-22-92 APACHE WASH --
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
6.430	240.	1059.	6.8	1903.6	1903.4	.2
6.500	222.	937.	7.7	1906.8	1906.1	.7
6.580	174.	864.	8.3	1911.2	1910.9	.3
6.630	158.	804.	8.9	1914.6	1914.1	.5
6.710	185.	962.	7.5	1919.1	1919.0	.1
6.800	237.	1111.	6.5	1923.7	1923.3	.4
6.900	202.	944.	7.6	1929.1	1928.2	.9
6.980	175.	932.	7.7	1934.0	1933.3	.7
7.080	140.	830.	8.7	1938.5	1937.9	.6
7.170	143.	744.	9.7	1943.5	1943.8	-.3
7.280	288.	1817.	4.0	1949.1	1949.0	.1
7.360	215.	831.	8.6	1952.0	1952.0	.0
7.460	187.	1088.	6.6	1959.3	1959.0	.3
7.550	238.	1139.	6.3	1964.2	1964.0	.2
7.650	250.	1328.	5.4	1969.8	1969.7	.1
7.740	281.	1142.	6.3	1975.6	1975.2	.4
7.840	225.	1276.	5.6	1982.6	1982.0	.6
7.890	280.	1218.	5.9	1985.4	1984.8	.6
7.980	375.	1634.	4.4	1990.1	1989.7	.4
8.020	285.	1031.	7.0	1992.3	1992.2	.1
8.120	170.	930.	4.1	1998.7	1998.7	.0
8.210	96.	421.	9.2	2002.6	2002.5	.1
8.310	87.	572.	6.7	2010.8	2009.9	.9
8.400	123.	554.	7.0	2016.1	2015.5	.6
8.500	123.	621.	6.2	2022.0	2021.6	.4
-3.960	556.	1258.	5.7	1782.6	1782.4	.2
4.055	171.	423.	4.4	1785.7	1785.5	.2
4.111	258.	501.	3.7	1788.2	1787.6	.6
4.233	487.	682.	2.7	1791.9	1791.9	.0
4.311	448.	543.	3.4	1795.4	1795.2	.2
4.499	619.	710.	2.6	1800.3	1800.3	.0
4.655	434.	439.	2.8	1804.5	1804.4	.1
4.722	148.	170.	4.3	1809.2	1809.1	.1
4.744	117.	138.	2.1	1811.0	1811.0	.0
-8.020	285.	1031.	7.0	1992.3	1992.2	.1
.090	150.	635.	3.4	1999.1	1999.1	.0
.130	101.	290.	7.6	2000.1	2000.1	.0
.210	121.	456.	4.8	2007.3	2006.9	.4
.280	103.	344.	6.4	2013.3	2012.4	.9
.340	102.	405.	5.4	2019.4	2018.7	.7
.400	125.	379.	5.8	2023.9	2023.4	.5
.470	127.	337.	6.5	2032.6	2032.7	-.1

FLOODWAY DATA, 6-22-92 APACHE WASH --
PROFILE NO. 2

STATION	------- FLOODWAY ------- WIDTH	SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
.570	115.	399.	5.5	2044.1	2043.9	.2

APACHE WASH WEIR FLOW
BETWEEN STATION 3.07 AND 3.32

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*********************************************
*  HEC-2 WATER SURFACE PROFILES             *
*                                           *
*  Version   4.6.0;  February 1991          *
*                                           *
*  RUN DATE    07NOV91    TIME   05:24:53   *
*********************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  HYDROLOGIC ENGINEERING CENTER       *
*  609 SECOND STREET, SUITE D          *
*  DAVIS, CALIFORNIA 95616-4687        *
*          (916) 756-1104              *
****************************************
```

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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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THIS RUN EXECUTED 07NOV91 05:24:53

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.0;  February 1991
************************************



SPLIT FLOW BEING PERFORMED


SF      SPLIT FLOW CALCULATION FROM 3.07 TO 3.32


JC      WATER SURFACE TO DETERMINE SPLIT FLOW
JP     1                            100

TWSPLIT FLOW FROM RIGHT BANK
WS     2    3.07    3.13    2.97       3
WC     0    1748     300  1750.5

TWSPLIT FLOW FROM RIGHT BANK
WS     2    3.13    3.21    2.97       3
WC     0  1750.2     350  1752.1

TWSPLIT FLOW FROM RIGHT BANK
WS     2    3.21    3.32    2.97       3
WC     0  1752.1     550    1758
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THIS IS AN ARCHIVAL RUN ALL DATA AND RESULTS ARE SAVED ON UNIT   96

AC
AC AERIAL MAPPING:  KENNEY AERIAL MAPPING CO. -- DATE  JULY-NOV. 1990
AC                  1130 W. FILLMORE PHX. AZ. 85007
AC                  PHONE (602) 258-6471   ELLIS HYDE
AC
AC SURVEY CONTROL:  McCUEN GPS INC. -- DATE  JUNE 1990
AC                  8948 W. CALLE LEJOS PEORIA AZ.
AC                  PHONE (602) 995-8445   GLEN McCUEN R.L.S.
AC
AC HYDROLOGY & FIS: JERRY R. JONES & ASSOC. -- DATE FEB 89-JUNE 91
AC                  ANCHOR CENTRE TWO - SUITE 302
AC                  2207 E. CAMELBACK ROAD PHX. AZ. ROGER BAELE P.E.
AC                  PHONE (602) 956-9850   ROGER BAELE P.E.
AC
AC                  FILE:  AP31WEIR.DAT
AC
AC                  APACHE WASH WEIR FLOW BETWEEN STA. 3.07 AND 3.32
AC
T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME  AP31WEIR.DAT  JJA NO. 290-018
T3 REV.  8-28-91  APACHE WASH -- 100 YEAR FLOW WITH ENCROACHMENT

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        0        0        0      .005       0        0     13541   1744.5     0

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0       -1        0        0        0       -1        0        0        15


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    110      115      200

NC    0.065    0.065    0.050     0.6      0.9
X1    2.97       23     9000     9065
GR    1752     8875     1746     8990     1744     9000     1738     9020     1738     9045
GR    1740     9055     1742     9065     1742     9170     1744     9365     1742     9750
GR   1741.5    9800    1741.3    9910     1740     9984    1738.0   9986.95  1736.00  9989.63
GR   1736.0  9995.85   1738.00  10007.33  1740.00  10018.70 1740.0   10238.69 1740.00  10248.88
GR   1742.0  10511.29  1744.00  10690.41  1746.00  10750.00

        ************************************************************************
          BEGIN SPLIT FLOW CALCULATIONS
        ************************************************************************
X1    3.07       13    9979.95  10028.11    540      420      520
X2    7328
GR    1760     9360     1756     9505     1754     9575     1752     9610     1748     9640
GR    1746     9665    1746.00   9912.66  1744.00  9979.95  1742.00  9988.79  1742.00  10019.37
GR   1744.0  10028.11  1746.00  10080.68  1748.00  10180.41
```

```
NC     0.065     0.065     0.050       0.6       0.9
X1      3:13        22   9978.41  10027.88       200       300       280
X2      7340
GR    1762.0   9160.00   1762.00   9160.32   1760.00   9275.00   1758.00   9340.00   1756.00   9387.31
GR    1754.0   9419.28   1752.00   9442.64   1750.00   9467.83   1748.00   9512.79   1748.00   9587.44
GR    1748.0   9655.10   1748.00   9675.30   1748.00   9870.47   1746.00   9978.41   1744.00   9984.92
GR    1742.0   9996.99   1742.00  10009.71   1744.00  10016.22   1746.00  10022.13   1748.00  10027.88
GR    1750.0  10067.68   1750.20  10100.00

X1      3.21        17      9965     10130       250       350       310
X2      7529
GR      1762      9355      1760      9450      1758      9505      1756      9560      1754      9595
GR      1752      9630      1750      9660      1749      9680      1750      9710      1751      9900
GR      1750      9965      1746      9990      1746     10010      1748     10070      1750     10130
GR      1752     10315    1752.1     10390

        ***********************************************************************
          END SPLIT FLOW CALCULATIONS
        ***********************************************************************
X1      3.32        29   9955.22  10020.21       510       560       560
X2      7534
GR    1768.0   9223.00   1768.00   9223.20   1768.00   9223.26   1766.00   9330.10   1766.00   9330.58
GR    1764.0   9432.55   1764.00   9432.56   1762.00   9497.22   1762.00   9497.51   1760.00   9543.64
GR    1760.0   9544.84   1758.00   9599.26   1758.00   9599.45   1756.00   9630.94   1756.00   9632.14
GR    1754.0   9725.16   1754.00   9801.22   1754.00   9955.22   1752.00   9974.26   1750.00   9981.64
GR    1750.0  10008.82   1754.00  10020.21   1754.00  10242.15   1756.00  10416.50    1756.7     10490
GR    1756.2     10560    1756.2     10725    1756.5     10790      1758  10929.84
X1      3.40        17      9985     10030       490       430       470
GR      1768      9215      1766      9310      1764      9415      1762      9460      1760      9500
GR      1758      9725      1758      9865      1756      9920      1756      9985      1752     10000
GR      1754     10020      1756     10030      1758     10060      1758     10215      1760     10465
GR    1760.2     10700      1761     10850
```

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	28.12	200.00	.00	28.12	200.00	1	1747.909	1750.729	3.070	3.130

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	239.95	200.00	.00	268.07	200.00	1	1750.729	1752.307	3.130	3.210

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	7.26	200.00	.00	275.34	200.00	1	1752.307	1756.430	3.210	3.320

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
14.06	16.82	17.88	14.06	16.82	17.88	2	1747.891	1750.678	3.070	3.130

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
119.98	205.80	52.69	134.04	222.62	49.67	2	1750.678	1752.286	3.130	3.210

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
3.63	5.64	43.32	137.67	228.26	49.51	2	1752.286	1756.445	3.210	3.320

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
15.44	13.66	12.25	15.44	13.66	12.25	3	1747.886	1750.661	3.070	3.130

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
162.89	194.75	17.82	178.33	208.41	15.56	3	1750.661	1752.279	3.130	3.210

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
4.64	5.15	10.41	182.96	213.56	15.43	3	1752.279	1756.450	3.210	3.320

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
14.90	12.21	19.82	14.90	12.21	19.82	4	1747.881	1750.654	3.070	3.130

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
188.23	189.53	.69	203.13	201.74	.69	4	1750.654	1752.275	3.130	3.210

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
4.98	4.89	1.82	208.11	206.63	.71	4	1752.275	1756.453	3.210	3.320

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
13.56	12.24	10.21	13.56	12.24	10.21	5	1747.880	1750.654	3.070	3.130

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
189.31	189.59	.15	202.86	201.83	.51	5	1750.654	1752.275	3.130	3.210

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
4.93	4.88	.94	207.79	206.71	.52	5	1752.275	1756.453	3.210	3.320

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
12.26	12.05	1.74	12.26	12.05	1.74	6	1747.883	1750.652	3.070	3.130

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
189.45	188.58	.46	201.71	200.63	.54	6	1750.652	1752.274	3.130	3.210

SPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
4.90	4.86	.80	206.62	205.49	.55	6	1752.274	1756.453	3.210	3.320

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .600 CEHV= .900
*SECNO 2.970

2.970	8.05	1744.05	1742.76	1744.50	1744.26	.21	.00	.00	1744.00
13541.0	.0	1666.9	11874.1	.0	293.5	3632.5	.0	.0	1742.00
.00	.02	5.68	3.27	.065	.050	.065	.000	1736.00	8999.73
.005019	0.	0.	0.	0	14	5	.00	1692.30	10692.03

FLOW DISTRIBUTION FOR SECNO= 2.97 CWSEL= 1744.05

STA=	9000.	9065.	9170.	9750.	9910.	9984.	9996.	10007.	10239.	10511.	10692.
PER Q=	12.3	4.2	7.6	9.1	6.8	3.6	3.5	29.1	21.4	2.3	
AREA=	293.5	215.7	611.6	407.2	251.9	83.9	81.0	949.4	842.8	188.9	
VEL=	5.7	2.6	1.7	3.0	3.7	5.8	5.9	4.2	3.4	1.7	
DEPTH=	4.5	2.1	1.1	2.5	3.4	7.1	7.1	4.1	3.1	1.0	

*SECNO 3.070

HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

****
BEGIN SPLIT FLOW CALCULATIONS
****

3.070	5.88	1747.88	1747.88	.00	1748.86	.98	3.22	.70	1744.00
7121.6	3093.9	2950.5	1077.2	681.9	265.7	239.7	26.2	11.3	1744.00
.02	4.54	11.11	4.49	.065	.050	.065	.000	1742.00	9641.48
.014505	540.	520.	420.	0	13	0	.00	533.00	10174.49

FLOW DISTRIBUTION FOR SECNO= 3.07 CWSEL= 1747.88

STA=	9641.	9665.	9913.	9980.	10028.	10081.	10174.
PER Q=	.8	27.5	15.2	41.4	11.9	3.3	
AREA=	22.1	465.9	193.9	265.7	151.5	88.2	
VEL=	2.6	4.2	5.6	11.1	5.6	2.6	
DEPTH=	.9	1.9	2.9	5.5	2.9	.9	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .600 CEHV= .900
*SECNO 3.130
3280 CROSS SECTION 3.13 EXTENDED .46 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.77

3.130	8.65	1750.65	1749.78	.00	1751.04	.38	1.82	.36	1746.00
7145.8	4485.2	2497.2	163.4	1422.9	343.7	84.0	34.1	14.4	1748.00
.03	3.15	7.27	1.94	.065	.050	.065	.000	1742.00	9459.54
.004681	200.	280.	300.	2	16	0	.00	640.46	10100.00

FLOW DISTRIBUTION FOR SECNO= 3.13 CWSEL= 1750.65

STA=	9460.	9468.	9513.	9587.	9655.	9675.	9870.	9978.	10028.	10068.	10100.
PER Q=	.0	2.3	8.3	7.6	2.3	21.8	20.5	34.9	2.0	.3	
AREA=	2.7	74.5	198.4	179.8	53.7	518.8	394.9	343.7	66.0	18.0	
VEL=	.7	2.2	3.0	3.0	3.0	3.0	3.7	7.3	2.2	1.1	
DEPTH=	.3	1.7	2.7	2.7	2.7	2.7	3.7	6.9	1.7	.6	

*SECNO 3.210
3280 CROSS SECTION 3.21 EXTENDED .18 FEET

3.210	6.27	1752.27	1751.62	.00	1752.80	.53	1.64	.13	1750.00
7524.1	1890.9	5087.3	545.9	630.5	745.5	252.9	45.3	18.9	1750.00
.05	3.00	6.82	2.16	.065	.050	.065	.000	1746.00	9625.18
.007081	250.	310.	350.	4	14	0	.00	764.82	10390.00

FLOW DISTRIBUTION FOR SECNO= 3.21 CWSEL= 1752.27

STA=	9625.	9660.	9680.	9710.	9900.	9965.	10130.	10315.	10390.
PER Q=	1.2	2.8	4.2	12.6	4.3	67.6	7.1	.2	
AREA=	38.9	55.5	83.3	337.3	115.4	745.5	236.0	16.9	
VEL=	2.2	3.8	3.8	2.8	2.8	6.8	2.3	.7	
DEPTH=	1.1	2.8	2.8	1.8	1.8	4.5	1.3	.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.320

3265 DIVIDED FLOW

```
*************************************************************************
  END SPLIT FLOW CALCULATIONS
*************************************************************************
```

3.320	6.45	1756.45	1755.99	.00	1756.86	.40	3.98	.08	1754.00
7534.0	2376.4	2508.0	2649.6	701.7	332.1	861.7	67.1	30.5	1754.00
.08	3.39	7.55	3.07	.065	.050	.065	.000	1750.00	9623.81
.007494	510.	560.	560.	2	10	0	.00	1095.51	10779.82

FLOW DISTRIBUTION FOR SECNO= 3.32 CWSEL= 1756.45

STA=	9624.	9631.	9725.	9801.	9955.	10020.	10242.	10417.	10464.	10560.	10725.	10780.
PER Q=	.0	4.6	8.9	18.0	33.3	26.0	8.5	.1	.0	.4	.0	
AREA=	1.6	135.7	186.6	377.8	332.1	544.4	253.3	10.8	4.5	41.8	6.9	
VEL=	.7	2.5	3.6	3.6	7.6	3.6	2.5	.7	.5	.8	.5	
DEPTH=	.2	1.4	2.5	2.5	5.1	2.5	1.5	.2	.0	.3	.1	

*SECNO 3.400

3.400	7.98	1759.98	1759.60	.00	1760.47	.49	3.53	.08	1756.00
7534.0	3289.0	2423.0	1822.1	918.6	278.9	639.8	87.0	41.2	1756.00
.11	3.58	8.69	2.85	.065	.050	.065	.000	1752.00	9502.65
.007684	490.	470.	430.	3	12	0	.00	959.40	10462.05

FLOW DISTRIBUTION FOR SECNO= 3.40 CWSEL= 1759.98

STA=	9503.	9725.	9865.	9920.	9985.	10030.	10060.	10215.	10462.
PER Q=	5.8	11.6	9.0	17.3	32.2	4.9	12.8	6.4	
AREA=	219.7	276.7	163.7	258.5	278.9	89.3	306.3	244.1	
VEL=	2.0	3.2	4.1	5.0	8.7	4.1	3.2	2.0	
DEPTH=	1.0	2.0	3.0	4.0	6.2	3.0	2.0	1.0	

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
12.16	12.25	.77	12.16	12.25	.77	7	1747.881	1750.654	3.070	3.130

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
189.34	189.54	.10	201.50	201.79	.14	7	1750.654	1752.275	3.130	3.210

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
4.88	4.88	.08	206.38	206.67	.14	7	1752.275	1756.453	3.210	3.320

THIS RUN EXECUTED 07NOV91 05:25:09

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1991
****

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

8-28-91 APACHE WASH --

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	2.970	1744.05	-.45	1744.26	1692.30	.00	1666.86	11874.14	.00	.00	9000.00	9065.00	.00
*	3.070	1747.88	.00	1748.86	533.00	3093.87	2950.51	1077.24	.00	.00	9979.95	10028.11	.00
*	3.130	1750.65	.00	1751.04	640.46	4485.18	2497.17	163.43	.00	.00	9978.41	10027.88	.00
	3.210	1752.27	.00	1752.80	764.82	1890.87	5087.32	545.92	.00	.00	9965.00	10130.00	.00
	3.320	1756.45	.00	1756.86	1095.51	2376.39	2508.01	2649.60	.00	.00	9955.22	10020.21	.00
	3.400	1759.98	.00	1760.47	959.40	3288.96	2422.96	1822.08	.00	.00	9985.00	10030.00	.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=     3.070  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.070  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     3.130  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

APACHE WASH WEIR FLOW
BETWEEN STATION 4.05 AND 4.9

```
*******************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.0;  February 1991        *
*                                         *
*  RUN DATE    01JAN92    TIME   00:04:24 *
*******************************************
```

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****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  HYDROLOGIC ENGINEERING CENTER       *
*  609 SECOND STREET, SUITE D          *
*  DAVIS, CALIFORNIA 95616-4687        *
*          (916) 756-1104              *
****************************************
```

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

THIS RUN EXECUTED 01JAN92 00:04:25

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.0;  February 1991
************************************
```

SPLIT FLOW BEING PERFORMED

SF SPLIT FLOW CALCULATION FROM 4.05 TO 4.78

JC WATER SURFACE TO DETERMINE SPLIT FLOW
JP 1 100

TWSPLIT FLOW FROM RIGHT BANK
WS 2 4.05 4.11 3.96 3
WC 0 1786 300 1790

TWSPLIT FLOW FROM RIGHT BANK
WS 2 4.56 4.57 3.96 3
WC 0 1808 80 1806

TWSPLIT FLOW FROM RIGHT BANK
WS 2 4.57 4.58 3.96 3
WC 0 1806 55 1808

TWSPLIT FLOW FROM RIGHT BANK
WS 2 4.58 4.6 3.96 3
WC 0 1808 70 1808

TWSPLIT FLOW FROM RIGHT BANK
WS 2 4.6 4.65 3.96 3
WC 0 1808 270 1810

TWSPLIT FLOW FROM RIGHT BANK
WS 2 4.65 4.74 3.96 3
WC 0 1810 500 1815

TWSPLIT FLOW FROM RIGHT BANK
WS 2 4.74 4.78 3.96 3
WC 0 1815 220 1818

```
THIS IS AN ARCHIVAL RUN ALL DATA AND RESULTS ARE SAVED ON UNIT   96

AC
AC AERIAL MAPPING:  KENNEY AERIAL MAPPING CO. -- DATE  JULY-NOV. 1990
AC                  1130 W. FILLMORE PHX. AZ. 85007
AC                  PHONE (602) 258-6471   ELLIS HYDE
AC
AC SURVEY CONTROL:  McCUEN GPS INC. -- DATE  JUNE 1990
AC                  8948 W. CALLE LEJOS PEORIA AZ.
AC                  PHONE (602) 995-8445   GLEN McCUEN R.L.S.
AC
AC HYDROLOGY & FIS: JERRY R. JONES & ASSOC. -- DATE FEB 89-JUNE 91
AC                  ANCHOR CENTRE TWO - SUITE 302
AC                  2207 E. CAMELBACK ROAD PHX. AZ. ROGER BAELE P.E.
AC                  PHONE (602) 956-9850   ROGER BAELE P.E.
AC
AC                  FILE:  AP41WEIR.DAT
AC
AC                  APACHE WASH WEIR FLOW BETWEEN STA. 4.05 AND 4.9
AC
T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME   AP405WR.DAT  JJA NO. 290-018
T3 REV. 11-26-91  APACHE WASH -- 100 YEAR FLOW WITH ENCROACHMENT

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

     0        0        0        0        .005     0        0        7213     1782.4   0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1        0        -1       0        0        0        -1       0        0        15


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    110      115      200

NC   0.065    0.065    0.05     0.1      0.3
X1   3.96     23       9882.85  10057.49
GR   1790.0   9412.00  1790.00  9412.72  1788.00  9643.42  1786.00  9807.32  1784.00  9852.78
GR   1782.0   9882.85  1780.00  9912.96  1778.00  9952.91  1776.00  9978.94  1774.00  9989.34
GR   1774.0   10006.21 1776.00  10013.45 1778.00  10020.91 1780.00  10028.53 1782.00  10057.49
GR   1782.0   10179.95 1780.00  10409.79 1778.00  10418.05 1778.00  10422.60 1780.00  10433.36
GR   1782.0   10548.23 1784.00  10801.62 1786.00  10916.09

        ***********************************************************************
                    BEGIN SLIT FLOW CALCULATIONS
        ***********************************************************************
X1   4.05     11       9960     10025    400      285      500
X2   5347
GR   1794     9645     1792     9870     1790     9940     1788     9960     1780     9990
GR   1779     10000    1780     10015    1782     10025    1782     10200    1786     10270
GR   1786     10650
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*************************************************************************
                END SLIT FLOW CALCULATIONS
*************************************************************************
************************************************************************
                BEGIN SLIT FLOW CALCULATIONS
*************************************************************************
X1    4.11      14     9978.48   10019.70     240      300      250
X2    5340
GR  1796.0   9581.80  1796.00   9581.86  1794.00   9856.27  1792.00   9954.62  1790.00   9972.66
GR  1788.0   9975.22  1786.00   9978.48  1784.00   9982.42  1782.00   9988.23  1782.00  10014.08
GR  1784.0  10019.70  1786.00  10107.80  1788.00  10273.40  1790.00  10355.58

X1    4.22      14      9975     10030     280      260      280
GR    1796    9435      1794      9530    1792     9595     1790      9650     1788      9780
GR    1788    9885      1790      9975    1786     9990    1785.5    10000     1786     10010
GR    1788   10020      1790     10030    1792    10085    1792.4    10135

X1    4.23      17   9980.16  10030.19     140      150      150
GR  1798.0    9343   1798.00   9343.60  1796.00  9520.61  1794.00   9614.39  1792.00   9686.85
GR  1790.0  9762.38  1788.00   9929.17  1788.00  9933.91  1790.00   9961.17  1790.00   9980.16
GR  1788.0  9985.61  1786.00   9991.04  1786.00 10007.85  1788.00  10015.65  1790.00  10030.19
GR  1792.0 10081.29  1794.00  10132.36

NC   0.065   0.065     0.05       0.1      0.3
X1    4.31      14   9980.54  10019.75     410      410      420
GR  1802.0  9330.41  1800.00   9596.56  1798.00  9706.51  1796.00   9770.70  1794.00   9896.31
GR  1792.0  9980.54  1790.00   9986.90  1788.00 10005.88  1788.00  10009.89  1790.00  10014.81
    1792.0 10019.75  1794.00  10055.21  1796.00 10110.95  1796.50  10150.57

X1    4.40      16     9990     10030     475      490      510
GR  1805.5    9610     1804      9840    1802     9925     1800      9940     1798      9970
GR    1796    9990     1794      9995  1792.3    10005     1794     10020     1796     10030
GR    1796   10080   1794.3     10090    1796    10110     1798     10175     1800     10210
GR    1801   10270

X1    4.49      14    9954.9  10053.62     490      450      450
GR  1810.0  9550.57  1808.00   9727.02  1806.00  9821.99  1804.00   9901.91  1802.00   9916.74
GR  1800.0  9954.90  1798.00   9973.89  1796.00  9983.53  1796.00  10011.10  1798.00  10018.97
GR  1800.0 10053.62  1802.00  10105.02  1804.00 10240.68  1804.50  10340.00

X1    4.56      13     9960     10035     365      350      365
X2    5347
GR    1812    9550     1810      9730    1808     9915     1806      9945     1804      9960
GR    1802    9975     1800      9985    1799    10000     1800     10035     1802     10115
GR    1804   10150     1806     10215    1808    10240

NC   0.065   0.065     0.05       0.3      0.5
X1    4.57       9     9980     10011     110      100      110
X2    5463
X3      10                                                        1808      1808
GR  1810.0  9540.00  1808.00   9760.00  1806.00  9950.00  1806.00   9980.00  1800.00   9981.00
GR  1800.0 10010.00  1806.00  10011.00  1806.00 10220.00  1806.00  10250.00
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SC    3.012      0.5      3.1        0        5       10       70      8.1   1801.3   1800.9
X1    4.58       10     9983    10011       70       70       70
X2    5739        0        2   1806.3     1807        0        0        0        0        0
X3    10                                                          1807     1808
BT    -10      9685  1810.00     1810     9790  1808.00     1808     9945  1808.00     1808
BT             9983  1808.00     1808     9984  1808.00   1806.3 10010.00  1808.00   1806.3
BT            10011   1808.0   1806.3    10250     1807     1807    10320     1807     1807
BT            10500     1808     1808
GR    1810     9685     1808     9790     1806     9945     1804     9983     1802     9984
GR    1802    10010     1804    10011     1804    10250     1806    10320     1808    10500

NC    0.065    0.065     0.05      0.1      0.3
X1    4.60       29  9971.40 10015.98       83       83       83
X2    5873
GR    1812     9675  1810.00  9807.06  1810.00  9812.65  1810.00  9836.34  1808.00  9875.78
GR  1808.0  9883.17  1806.00  9966.89  1806.00  9971.40  1804.00  9976.73  1804.00  9979.77
GR  1802.0  9986.27  1802.00  9987.40  1802.00  9998.69  1802.00  9998.98  1804.00 10008.42
GR  1804.0 10010.82  1806.00 10015.98  1806.00 10022.46  1806.00 10112.04  1806.00 10123.00
GR  1804.0 10129.02  1804.00 10130.11  1804.00 10134.03  1804.00 10156.04  1804.00 10274.93
GR  1804.0 10281.42  1806.00 10322.77  1806.00 10440.24  1808.00 10500.19

NC    0.08     0.08    0.075
X1    4.65       17  9982.47 10093.98      260      260      280
X2    6053
GR  1815.5     9400     1814     9600     1812     9724     1812     9725  1810.00  9830.73
GR  1808.0  9982.47  1806.00  9997.03  1806.00 10002.86  1808.00 10014.29  1808.00 10049.57
GR  1806.0 10059.42  1806.00 10060.51  1808.00 10093.98  1808.00 10225.15  1808.00 10250.89
    1810    10270     1810    10360

NC   0.065    0.065     0.05
X1    4.74       24  9960.29 10029.03      400      500      500
X2    6928
GR  1818.0  9500.14  1816.00  9960.29  1814.00  9979.29  1812.00  9986.69  1812.00  9986.69
GR  1810.0  9994.00  1810.00  9994.01  1810.00  9999.53  1810.00  9999.55  1812.00 10010.02
GR  1812.0 10010.02  1814.00 10029.03  1814.00 10029.36  1814.00 10136.55     1813    10140
GR    1814    10160     1814    10380     1811    10400     1814    10425     1814    10440
GR    1813    10485     1814    10530     1815    10590     1815    10700

        ***************************************************************************
                        END OF EFFECTIVE SPLIT FLOW
        ***************************************************************************
X1    4.78       26  9964.87 10021.41      300      100      200
X2    7213
GR  1820.0  9743.69  1818.00  9905.26  1818.00  9905.48  1818.00  9931.86  1818.00  9931.87
GR  1818.0  9964.87  1818.00  9964.88  1816.00  9983.35  1816.00  9983.35  1813.00  9995.72
GR  1813.0  9995.72  1813.00 10010.03  1814.00 10010.04  1816.00 10021.41  1816.00 10021.41
GR  1816.0 10106.14  1814.00 10182.26  1814.00 10190.46  1816.00 10211.72  1816.00 10230.89
GR  1814.0 10317.17  1813.00 10376.07  1814.00 10488.80  1814.00 10508.50  1816.00    10540
GR  1818.0    10640
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X1	4.82	34	9975	10009.43	480	480	480			
GR	1826.0	9480	1824.00	9740.85	1822.00	9830.85	1820.00	9875.16	1818.00	9888.17
GR	1818.0	9903.71	1818.00	9903.71	1820.00	9930.33	1820.00	9930.34	1820.00	9974.99
GR	1820.0	9975.00	1818.00	9990.22	1818.00	9990.22	1818.00	10005.12	1818.00	10005.12
GR	1820.0	10009.43	1820.00	10009.43	1822.00	10013.60	1822.00	10013.60	1822.00	10024.29
GR	1822.0	10024.29	1820.00	10070.59	1820.00	10070.59	1818	10100	1820.00	10126.15
GR	1820.0	10181.41	1818.00	10189.94	1817.1	10200	1818.00	10207.92	1820.00	10217.21
GR	1820.0	10264.85	1818	10280	1820	10315	1822	10500		
NC	0.05	0.05	0.05	0.3	0.5					
X1	4.9	21	9940	10018	220	160	200			
GR	1826	9730	1824	9825	1822	9870	1820	9885	1822	9905
GR	1824	9940	1822	9955	1822	9965	1822	9985	1822	10000
GR	1822	10005	1822	10010	1824	10018	1824	10030	1822	10155
GR	1822	10290	1820	10310	1822	10330	1824	10405	1826	10560
GR	1828	10750								

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	1	1785.430	1788.378	4.050	4.110

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	156.86	200.00	.00	156.86	200.00	1	1806.081	1808.129	4.560	4.570

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	331.04	200.00	.00	487.90	200.00	1	1808.129	1809.020	4.570	4.580

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	235.35	200.00	.00	723.25	200.00	1	1809.020	1809.138	4.580	4.600

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	458.12	200.00	.00	1181.37	200.00	1	1809.138	1810.170	4.600	4.650

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	1300.17	200.00	.00	2481.54	200.00	1	1810.170	1816.554	4.650	4.740

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	354.42	200.00	.00	2835.96	200.00	1	1816.554	1817.310	4.740	4.780

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	1785.199	1787.781	4.050	4.110

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
78.43	135.72	53.50	78.43	135.72	53.50	2	1805.292	1808.164	4.560	4.570

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
165.52	301.51	58.24	243.95	437.23	56.75	2	1808.164	1808.770	4.570	4.580

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
117.68	155.11	27.45	361.63	592.34	48.37	2	1808.770	1808.864	4.580	4.600

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
229.06	260.30	12.77	590.69	852.64	36.30	2	1808.864	1810.001	4.600	4.650

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
650.08	1024.19	44.69	1240.77	1876.84	40.80	2	1810.001	1816.428	4.650	4.740

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
177.21	296.28	50.30	1417.98	2173.12	42.06	2	1816.428	1817.257	4.740	4.780

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	3	1785.147	1787.541	4.050	4.110

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
107.07	121.37	12.52	107.07	121.37	12.52	3	1805.038	1808.101	4.560	4.570

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
233.52	282.75	19.07	340.59	404.13	17.06	3	1808.101	1808.704	4.570	4.580

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
136.39	135.96	.32	476.98	540.08	12.41	3	1808.704	1808.792	4.580	4.600

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
244.68	188.24	26.08	721.67	728.32	.92	3	1808.792	1809.831	4.600	4.650

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
837.14	907.69	8.09	1558.80	1636.01	4.83	3	1809.831	1816.420	4.650	4.740

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
236.75	291.91	20.87	1795.55	1927.92	7.11	3	1816.420	1817.246	4.740	4.780

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	4	1785.129	1787.488	4.050	4.110

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
116.60	120.58	3.36	116.60	120.58	3.36	4	1804.949	1808.112	4.560	4.570

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
272.10	281.85	3.52	388.71	402.43	3.47	4	1808.112	1808.684	4.570	4.580

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
136.18	130.33	4.39	524.89	532.76	1.49	4	1808.684	1808.770	4.580	4.600

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
234.63	174.68	29.29	759.51	707.44	7.10	4	1808.770	1809.804	4.600	4.650

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
880.61	873.10	.86	1640.13	1580.54	3.70	4	1809.804	1816.401	4.650	4.740

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
288.13	283.16	1.74	1928.26	1863.70	3.41	4	1816.401	1817.235	4.740	4.780

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	5	1785.133	1787.500	4.050	4.110

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
120.28	110.33	8.63	120.28	110.33	8.63	5	1804.968	1808.021	4.560	4.570

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
281.63	267.86	5.01	401.90	378.19	6.08	5	1808.021	1808.686	4.570	4.580

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
133.25	131.07	1.65	535.16	509.26	4.96	5	1808.686	1808.774	4.580	4.600

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
204.65	176.49	14.78	739.81	685.75	7.58	5	1808.774	1809.807	4.600	4.650

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
876.43	875.92	.06	1616.24	1561.67	3.43	5	1809.807	1816.402	4.650	4.740

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
283.89	283.81	.03	1900.12	1845.48	2.92	5	1816.402	1817.236	4.740	4.780

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	6	1785.138	1787.514	4.050	4.110

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
117.65	116.22	1.22	117.65	116.22	1.22	6	1804.991	1808.068	4.560	4.570

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
276.05	276.64	.21	393.70	392.86	.21	6	1808.068	1808.698	4.570	4.580

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
131.51	134.32	2.11	525.21	527.18	.37	6	1808.698	1808.786	4.580	4.600

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
178.10	180.55	1.37	703.31	707.73	.63	6	1808.786	1809.803	4.600	4.650

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
876.12	875.09	.12	1579.44	1582.82	.21	6	1809.803	1816.404	4.650	4.740

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
283.82	284.25	.15	1863.25	1867.07	.20	6	1816.404	1817.236	4.740	4.780

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	7	1785.137	1787.513	4.050	4.110

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
117.21	116.12	.94	117.21	116.12	.94	7	1804.989	1808.067	4.560	4.570

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
276.28	276.38	.04	393.49	392.50	.25	7	1808.067	1808.697	4.570	4.580

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
132.49	133.98	1.12	525.98	526.48	.10	7	1808.697	1808.785	4.580	4.600

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
180.22	180.10	.07	706.20	706.58	.05	7	1808.785	1809.803	4.600	4.650

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
875.61	875.03	.07	1581.81	1581.61	.01	7	1809.803	1816.403	4.650	4.740

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
283.88	284.19	.11	1865.69	1865.80	.01	7	1816.403	1817.236	4.740	4.780

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .100 CEHV= .300
*SECNO 3.960

3.960	9.03	1783.03	1782.20	1782.40	1783.41	.38	.00	.00	1782.00
7213.0	8.3	4691.0	2513.7	8.0	808.0	994.2	.0	.0	1782.00
.00	1.04	5.81	2.53	.065	.050	.065	.000	1774.00	9867.33
.004997	0.	0.	0.	0	6	5	.00	811.71	10679.04

FLOW DISTRIBUTION FOR SECNO= 3.96 CWSEL= 1783.03

STA=	9867.	9883.	10057.	10180.	10410.	10418.	10423.	10433.	10548.	10679.
PER Q=	.1	65.0	2.9	16.8	1.9	1.5	2.4	8.4	1.0	
AREA=	8.0	808.0	126.4	467.1	33.3	22.9	43.4	233.5	67.5	
VEL=	1.0	5.8	1.7	2.6	4.0	4.7	4.0	2.6	1.0	
DEPTH=	.5	4.6	1.0	2.0	4.0	5.0	4.0	2.0	.5	

*SECNO 4.050

WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .47

****
BEGIN SLIT FLOW CALCULATIONS
****

4.050	6.14	1785.14	1783.89	.00	1785.44	.30	2.02	.01	1788.00
3480.9	.0	1314.2	2166.7	.0	231.8	635.2	11.3	4.2	1782.00
.03	.00	5.67	3.41	.000	.050	.065	.000	1779.00	9970.74
.005374	400.	500.	285.	3	11	0	.00	284.17	10254.90

FLOW DISTRIBUTION FOR SECNO= 4.05 CWSEL= 1785.14

STA=	9971.	10025.	10200.	10255.
PER Q=	37.8	56.7	5.6	
AREA=	231.8	549.0	86.1	
VEL=	5.7	3.6	2.3	
DEPTH=	4.3	3.1	1.6	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.110

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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*************************************************************************
                END SLIT FLOW CALCULATIONS
*************************************************************************
*************************************************************************
                BEGIN SLIT FLOW CALCULATIONS
*************************************************************************
```

4.110	5.51	1787.51	1787.51	.00	1788.63	1.12	2.31	.25	1786.00
3473.9	3.9	2109.4	1360.7	1.9	204.0	316.0	15.9	6.0	1784.00
.04	2.08	10.34	4.31	.065	.050	.065	.000	1782.00	9976.01
.014898	240.	250.	300.	0	11	0	.00	257.02	10233.03

FLOW DISTRIBUTION FOR SECNO= 4.11 CWSEL= 1787.51

STA=	9976.	9978.	10020.	10108.	10233.
PER Q=	.1	60.7	32.9	6.3	
AREA=	1.9	204.0	221.3	94.7	
VEL=	2.1	10.3	5.2	2.3	
DEPTH=	.8	4.9	2.5	.8	

*SECNO 4.220

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

4.220	5.45	1790.95	1790.10	.00	1791.20	.25	2.48	.09	1790.00
3473.9	2320.5	1140.2	13.2	749.9	207.0	12.3	20.6	8.1	1790.00
.06	3.09	5.51	1.07	.065	.050	.065	.000	1785.50	9623.98
.005997	280.	280.	260.	2	10	0	.00	432.05	10056.02

FLOW DISTRIBUTION FOR SECNO= 4.22 CWSEL= 1790.95

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9624.    9650.    9780.    9885.    9975.   10030.   10056.
  PER Q=      .4     20.1     32.4     13.9     32.8       .4
   AREA=    12.3    253.0    309.4    175.2    207.0     12.3
    VEL=     1.1      2.8      3.6      2.8      5.5      1.1
  DEPTH=      .5      1.9      2.9      1.9      3.8       .5

*SECNO 4.230
     4.230     5.77  1791.77  1790.85      .00  1792.07      .31      .86      .02  1790.00
    3473.9   2122.4   1286.9     64.6    646.7    215.2     39.8     23.6      9.5  1790.00
       .06     3.28     5.98     1.62     .065     .050     .065     .000  1786.00  9695.72
   .005956     140.     150.     150.        2       10        0      .00   379.56 10075.29


FLOW DISTRIBUTION FOR SECNO=      4.23          CWSEL=   1791.77

STA=    9696.    9762.    9929.    9934.    9961.    9980.   10030.   10075.
  PER Q=     2.7     46.1      2.2      7.5      2.5     37.0      1.9
   AREA=    58.8    461.2     17.8     75.4     33.5    215.2     39.8
    VEL=     1.6      3.5      4.3      3.5      2.6      6.0      1.6
  DEPTH=      .9      2.8      3.8      2.8      1.8      4.3       .9

CCHV=     .100 CEHV=     .300
 CNO 4.310

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     4.310     7.19  1795.19  1795.19      .00  1796.30     1.11     3.37      .24  1792.00
    3473.9    850.5   2263.9    359.5    229.3    224.2     97.6     30.5     12.5  1792.00
       .08     3.71    10.10     3.69     .065     .050     .065     .000  1788.00  9821.42
   .011746     410.     420.     410.        0        8        0      .00   267.03 10088.45


FLOW DISTRIBUTION FOR SECNO=      4.31          CWSEL=   1795.19

STA=    9821.    9896.    9981.   10020.   10055.   10088.
  PER Q=     2.3     22.2     65.2      9.3      1.0
   AREA=    44.7    184.7    224.2     77.7     19.8
    VEL=     1.8      4.2     10.1      4.2      1.8
  DEPTH=      .6      2.2      5.7      2.2       .6
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.400

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.55

4.400	7.28	1799.58	1798.35	.00	1799.98	.40	3.61	.07	1796.00
3473.9	181.1	1512.1	1780.8	70.5	229.6	502.0	38.2	15.4	1796.00
.11	2.57	6.59	3.55	.065	.050	.065	.000	1792.30	9946.25
.004910	475.	510.	490.	2	10	0	.00	256.46	10202.71

FLOW DISTRIBUTION FOR SECNO= 4.40 CWSEL= 1799.58

STA=	9946.	9970.	9990.	10030.	10080.	10090.	10110.	10175.	10203.
PER Q=	.7	4.5	43.5	19.3	5.5	11.0	14.6	.9	
AREA=	18.8	51.7	229.6	179.2	44.3	88.7	167.9	21.9	
VEL=	1.4	3.0	6.6	3.8	4.3	4.3	3.0	1.4	
DEPTH=	.8	2.6	5.7	3.6	4.4	4.4	2.6	.8	

*SECNO 4.490

4.490	6.20	1802.20	1801.30	.00	1803.00	.80	2.90	.12	1800.00
3473.9	110.3	3214.4	149.2	45.9	433.6	63.0	45.2	17.9	1800.00
.13	2.40	7.41	2.37	.065	.050	.065	.000	1796.00	9915.26
.008721	490.	450.	450.	3	15	0	.00	203.31	10118.57

FLOW DISTRIBUTION FOR SECNO= 4.49 CWSEL= 1802.20

STA=	9915.	9955.	10054.	10105.	10119.
PER Q=	3.2	92.5	4.3	.0	
AREA=	45.9	433.6	61.7	1.4	
VEL=	2.4	7.4	2.4	.5	
DEPTH=	1.2	4.4	1.2	.1	

*SECNO 4.560

4.560	5.99	1804.99	1803.37	.00	1805.38	.39	2.34	.04	1804.00
3480.9	3.7	1988.2	1489.1	3.7	344.1	404.5	50.5	19.6	1800.00
.15	1.00	5.78	3.68	.065	.050	.065	.000	1799.00	9952.59
.004990	365.	365.	350.	2	19	0	.00	229.53	10182.12

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
1828.93	1823.76	.23	2834.	1415.	3.232	150.0	1807.00	750.

4.580	6.70	1808.70	.00	.00	1808.76	.07	.23	.00	1804.00
4265.9	534.0	599.7	3132.3	416.2	185.5	1686.7	55.3	21.5	1804.00
.16	1.28	3.23	1.86	.065	.050	.065	.000	1802.00	9753.42
.001064	70.	70.	70.	2	0	0	.00	746.58	10500.00

FLOW DISTRIBUTION FOR SECNO= 4.58 CWSEL= 1808.70

STA=	9753.	9790.	9945.	9983.	10011.	10250.	10320.	10500.
PER Q=	.1	6.5	5.9	14.1	55.0	10.8	7.6	
AREA=	12.7	263.0	140.5	185.5	1122.5	258.8	305.4	
VEL=	.4	1.1	1.8	3.2	2.1	1.8	1.1	
DEPTH=	.3	1.7	3.7	6.6	4.7	3.7	1.7	

CCHV= .100 CEHV= .300
*SECNO 4.600
0 CROSS SECTION 4.60 EXTENDED .78 FEET

4.600	6.78	1808.78	1806.59	.00	1808.87	.09	.10	.01	1806.00
4533.5	223.9	857.8	3451.9	173.8	244.2	1640.5	59.4	22.8	1806.00
.17	1.29	3.51	2.10	.065	.050	.065	.000	1802.00	9860.31
.001501	83.	83.	83.	2	18	0	.00	639.88	10500.19

FLOW DISTRIBUTION FOR SECNO= 4.60 CWSEL= 1808.78

STA=	9860.	9967.	9971.	10016.	10112.	10134.	10156.	10275.	10323.	10440.	10500.
PER Q=	4.5	.5	18.9	10.3	3.6	5.8	31.6	9.1	12.6	3.0	
AREA=	161.3	12.6	244.2	267.5	77.3	105.3	568.8	187.5	327.1	107.0	
VEL=	1.3	1.8	3.5	1.8	2.1	2.5	2.5	2.2	1.8	1.3	
DEPTH=	1.5	2.8	5.5	2.8	3.5	4.8	4.8	3.9	2.8	1.8	

*SECNO 4.650

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4.650	3.80	1809.80	1809.80	.00	1810.68	.87	1.25	.24	1808.00
4893.7	506.3	2480.0	1907.3	123.3	284.2	298.5	67.8	26.0	1808.00
.18	4.11	8.73	6.39	.080	.075	.080	.000	1806.00	9845.67
.056086	260.	280.	260.	0	11	0	.00	422.45	10268.12

FLOW DISTRIBUTION FOR SECNO= 4.65 CWSEL= 1809.80

STA=	9846.	9982.	10094.	10225.	10251.	10268.
PER Q=	10.3	50.7	31.5	6.2	1.3	
AREA=	123.3	284.2	236.5	46.4	15.5	
VEL=	4.1	8.7	6.5	6.5	4.1	
DEPTH=	.9	2.5	1.8	1.8	.9	

*SECNO 4.740
3280 CROSS SECTION 4.74 EXTENDED 1.41 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 4.12

4.740	6.40	1816.40	1815.46	.00	1816.63	.23	5.89	.06	1816.00
6644.0	12.0	1347.4	5284.5	19.3	248.6	1601.3	82.4	33.0	1814.00
.22	.62	5.42	3.30	.065	.050	.065	.000	1810.00	9865.95
.006098	400.	500.	500.	7	13	0	.00	834.05	10700.00

FLOW DISTRIBUTION FOR SECNO= 4.74 CWSEL= 1816.40

STA=	9866.	9960.	10029.	10137.	10160.	10380.	10400.	10425.	10485.	10530.	10590.	10700.
PER Q=	.2	20.3	12.5	3.7	25.6	5.2	6.5	8.9	7.2	4.7	5.2	
AREA=	19.3	248.6	259.1	68.2	530.2	78.2	97.8	167.1	131.0	114.6	155.1	
VEL=	.6	5.4	3.2	3.6	3.2	4.4	4.4	3.5	3.6	2.7	2.2	
DEPTH=	.2	3.6	2.4	2.9	2.4	3.9	3.9	2.8	2.9	1.9	1.4	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.780

****
END OF EFFECTIVE SPLIT FLOW
****

4.780	4.24	1817.24	1816.35	.00	1817.59	.36	.92	.04	1818.00
7213.0	.0	718.2	6494.8	.0	127.2	1381.3	86.8	35.0	1816.00
.23	.00	5.65	4.70	.000	.050	.065	.000	1813.00	9971.90
.010710	300.	200.	100.	3	11	0	.00	630.08	10601.98

FLOW DISTRIBUTION FOR SECNO= 4.78 CWSEL= 1817.24

STA=	9972.	10021.	10106.	10182.	10190.	10212.	10231.	10317.	10376.	10489.	10509.	10540.	10602.
PER Q=	10.0	4.0	9.6	1.9	2.7	.9	10.8	17.4	33.3	4.6	4.0	.9	
AREA=	127.2	105.0	170.5	26.6	47.6	23.8	193.2	220.3	421.6	63.8	70.5	38.4	
VEL=	5.6	2.7	4.0	5.2	4.0	2.7	4.0	5.7	5.7	5.2	4.0	1.7	
DEPTH=	2.6	1.2	2.2	3.2	2.2	1.2	2.2	3.7	3.7	3.2	2.2	.6	

*SECNO 4.820
3280 CROSS SECTION 4.82 EXTENDED .33 FEET

4.820	5.22	1822.32	1821.48	.00	1822.69	.37	5.09	.00	1820.00
7213.0	1698.1	942.3	4572.6	364.0	129.4	1051.5	103.6	42.3	1820.00
.25	4.67	7.28	4.35	.065	.050	.065	.000	1817.10	9816.21
.010504	480.	480.	480.	4	8	0	.00	683.79	10500.00

FLOW DISTRIBUTION FOR SECNO= 4.82 CWSEL= 1822.32

STA=	9816.	9888.	9904.	9930.	9975.	10009.	10100.	10126.	10181.	10200.	10208.	10265.	10280.
PER Q=	5.4	5.8	6.4	5.9	13.1	9.7	6.3	7.3	6.4	3.5	8.5	3.6	
AREA=	104.4	67.2	88.5	103.8	129.4	168.2	87.0	128.5	76.4	37.8	141.7	50.4	
VEL=	3.8	6.2	5.2	4.1	7.3	4.2	5.2	4.1	6.1	6.6	4.3	5.2	
DEPTH=	1.5	4.3	3.3	2.3	3.8	1.9	3.3	2.3	4.1	4.8	2.5	3.3	

STA=	10280.	10315.	10500.
PER Q=	8.4	9.6	
AREA=	116.4	245.2	
VEL=	5.2	2.8	
DEPTH=	3.3	1.3	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500

*SECNO 4.900

4.900	4.44	1824.44	1824.11	.00	1825.03	.59	2.23	.11	1824.00
7213.0	1534.8	1009.8	4668.5	240.1	167.2	767.4	109.1	44.9	1824.00
.26	6.39	6.04	6.08	.050	.050	.050	.000	1820.00	9804.14
.015022	220.	200.	160.	3	19	0	.00	634.89	10439.03

FLOW DISTRIBUTION FOR SECNO= 4.90 CWSEL= 1824.44

STA=	9804.	9870.	9885.	9905.	9940.	10018.	10155.	10290.	10310.	10330.	10405.	10439.
PER Q=	4.2	5.9	7.9	3.2	14.0	11.7	30.1	7.9	7.9	6.9	.1	
AREA=	69.3	51.6	68.8	50.4	167.2	185.2	329.3	68.8	68.8	107.9	7.5	
VEL=	4.4	8.3	8.3	4.6	6.0	4.6	6.6	8.3	8.3	4.6	1.3	
DEPTH=	1.1	3.4	3.4	1.4	2.1	1.4	2.4	3.4	3.4	1.4	.2	

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	8	1785.137	1787.512	4.050	4.110

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
116.66	115.98	.59	116.66	115.98	.59	8	1804.989	1808.066	4.560	4.570

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
276.33	276.16	.06	392.99	392.15	.22	8	1808.066	1808.697	4.570	4.580

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
133.61	133.88	.21	526.60	526.03	.11	8	1808.697	1808.784	4.580	4.600

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
180.12	179.88	.13	706.72	705.92	.11	8	1808.784	1809.803	4.600	4.650

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
875.32	875.33	.00	1582.04	1581.24	.05	8	1809.803	1816.404	4.650	4.740

TWSPLIT FLOW FROM RIGHT BANK

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
284.03	284.42	.14	1866.07	1865.67	.02	8	1816.404	1817.236	4.740	4.780

THIS RUN EXECUTED 01JAN92 00:05:41

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HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1991
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

11-26-91 APACHE WASH --

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	3.960	1783.03	.63	1783.41	811.71	8.32	4690.97	2513.71	.00	.00	9882.85	10057.49	.00
*	4.050	1785.14	.00	1785.44	284.17	.00	1314.21	2166.72	.00	.00	9960.00	10025.00	.00
*	4.110	1787.51	.00	1788.63	257.02	3.88	2109.39	1360.66	.00	.00	9978.48	10019.70	.00
*	4.220	1790.95	.00	1791.20	432.05	2320.51	1140.19	13.23	.00	.00	9975.00	10030.00	.00
	4.230	1791.77	.00	1792.07	379.56	2122.42	1286.95	64.57	.00	.00	9980.16	10030.19	.00
*	4.310	1795.19	.00	1796.30	267.03	850.49	2263.90	359.54	.00	.00	9980.54	10019.75	.00
*	4.400	1799.58	.00	1799.98	256.46	181.06	1512.11	1780.76	.00	.00	9990.00	10030.00	.00
	4.490	1802.20	.00	1803.00	203.31	110.32	3214.42	149.19	.00	.00	9954.90	10053.62	.00
	4.560	1804.99	.00	1805.38	229.53	3.67	1988.18	1489.08	.00	.00	9960.00	10035.00	.00
*	4.570	1808.07	.00	1808.53	497.24	539.23	1797.07	1377.31	.00	.00	9980.00	10011.00	.00
*	4.580	1808.70	.00	1808.76	746.58	533.95	599.65	3132.32	.00	.00	9983.00	10011.00	.00
	4.600	1808.78	.00	1808.87	639.88	223.92	857.75	3451.86	.00	.00	9971.40	10015.98	.00
*	4.650	1809.80	.00	1810.68	422.45	506.29	2480.02	1907.33	.00	.00	9982.47	10093.98	.00
*	4.740	1816.40	.00	1816.63	834.05	12.00	1347.42	5284.54	.00	.00	9960.29	10029.03	.00
	4.780	1817.24	.00	1817.59	630.08	.00	718.21	6494.79	.00	.00	9964.87	10021.41	.00
	4.820	1822.32	.00	1822.69	683.79	1698.10	942.33	4572.57	.00	.00	9975.00	10009.43	.00
	4.900	1824.44	.00	1825.03	634.89	1534.76	1009.77	4668.46	.00	.00	9940.00	10018.00	.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=     4.050  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     4.110  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.110  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     4.220  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     4.310  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.310  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     4.400  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     4.570  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.570  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     4.580  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     4.650  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.650  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     4.740  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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PARADISE WASH

THIS RUN EXECUTED 12JUN92 16:30:36

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.0;  February 1991
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THIS IS AN ARCHIVAL RUN ALL DATA AND RESULTS ARE SAVED ON UNIT   96

AC
AC AERIAL MAPPING:  KENNEY AERIAL MAPPING CO. -- DATE  JULY-NOV. 1990
AC                  1130 W. FILLMORE PHX. AZ. 85007
AC                  PHONE (602) 258-6471   ELLIS HYDE
AC
AC SURVEY CONTROL:  McCUEN GPS INC. -- DATE  JUNE 1990
AC                  8948 W. CALLE LEJOS PEORIA AZ.
AC                  PHONE (602) 995-8445   GLEN McCUEN R.L.S.
AC
AC HYDROLOGY & FIS: JERRY R. JONES & ASSOC. -- DATE FEB 89-JUNE 91
AC                  2929 E. CAMELBACK ROAD
AC                  PHX. AZ. 85016
AC                  PHONE (602) 956-9850   ROGER BAELE P.E.
AC
AC                  FILE:  PARADFCD.DAT
AC
AC                  PARADISE WASH
AC
T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME:  PARADFCD.DAT   JJA NO. 290-018
T3 REV.  6-22-92 PARADISE WASH -- 100 YEAR FLOW WITHOUT ENCROACHMENT

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        5        0        0        0        0        0        0     1735.7      0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0       -1        0        0        0       -1        0        0        15


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    115      150      200

NC    0.070    0.070    0.055      0.6      0.9
QT        1    17136                      17136
ET               3.1     9800    10450
X1      2.6       20     9945    10030        0        0        0
GR     1750     9420     1742     9540     1740     9610     1738     9680     1736     9750
GR     1734     9780     1732     9820     1732     9935     1730     9945     1724     9960
GR     1724     9965     1726    10020     1728    10030     1730    10140     1732    10265
GR     1732    10335     1730    10370     1730    10390     1734    10440     1750    10625
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[illegible]	1	5763			5763					
ET		3.1	9705	10250						
X1	0.04	31	9922.46	10032.22	140	350	205			
GR	1750	9440	1748.00	9470	1746.00	9500	1744.00	9530	1742.00	9555
GR	1740.0	9670	1738.00	9680	1736.00	9725	1734.00	9765	1732.0	9850
GR	1732	9915	1734.00	9922.46	1732.00	9946.82	1730.00	9970.15	1728.0	9983.45
GR	1726.0	9998.41	1726.00	10018.18	1728.00	10025.76	1730.00	10032.22	1732.0	10090.04
GR	1734.0	10169.15	1736.00	10255.73	1738.00	10279.91	1740.00	10301.52	1742.0	10321.92
GR	1744.0	10343.48	1746.00	10365.07	1748.00	10404.44	1750.00	10456.52	1752.0	10552.60
GR	1752.0	10700.00								
ET		3.1	9960.5	10220						
X1	0.13	25	9978.41	10047.54	425	465	390			
GR	1754.0	9300.00	1754.00	9351.49	1754.00	9354.61	1754.00	9370.05	1754.00	9721.98
GR	1752.0	9784.30	1750.00	9822.24	1748.00	9852.88	1746.00	9886.08	1744.00	9917.60
GR	1742.0	9939.97	1740.00	9949.72	1738.00	9959.46	1736.00	9969.21	1734.00	9978.41
GR	1732.0	9986.34	1732.00	10019.39	1734.00	10047.54	1736.00	10172.10	1736.00	10224.65
GR	1736.0	10263.75	1736.00	10407.51	1736.00	10543.10	1738.00	10551.08	1740.00	10559.07
ET		3.1	9963.2	10150						
X1	0.17	34	9967.23	10084.24	275	200	225			
GR	1758.0	9300.00	1758.00	9750.52	1756.00	9818.20	1754.00	9853.66	1752.00	9880.69
GR	1750.0	9903.35	1748.00	9924.21	1746.00	9943.94	1744.00	9948.60	1742.00	9953.26
GR	1740.0	9957.91	1738.00	9962.57	1736.00	9967.23	1734.00	9974.51	1732.00	9982.28
GR	1732.0	9983.75	1734.00	10022.71	1736.00	10084.24	1738.00	10128.49	1738.00	10173.84
GR	1738.0	10260.45	1738.00	10423.55	1736.00	10511.08	1736.00	10520.92	1738.00	10528.63
GR	1740.0	10535.83	1742.00	10543.28	1744.00	10551.22	1746.00	10559.17	1748.00	10567.11
[illegible]	1750.0	10595.03	1752.00	10642.37	1754.00	10673.82	1754.00	10700.00		
ET		3.1	9814	10085						
X1	0.28	30	9985.49	10035.07	550	380	470			
GR	1764.0	9300.00	1764.00	9382.72	1762.00	9564.77	1760.00	9638.93	1758.00	9664.88
GR	1756.0	9680.83	1754.00	9696.79	1752.00	9712.74	1750.00	9728.65	1748.00	9747.16
GR	1746.0	9766.04	1744.00	9784.93	1742.00	9813.61	1740.00	9985.49	1738.00	9996.96
GR	1738.0	10011.78	1740.00	10021.63	1742.00	10035.07	1742.00	10234.78	1742.00	10240.90
GR	1744.0	10260.26	1746.00	10319.83	1748.00	10367.43	1750.00	10409.59	1752.00	10442.71
GR	1754.0	10470.09	1756.00	10502.72	1758.00	10552.61	1760.00	10654.01	1760.00	10700.00
ET		3.1	9905	10327						
X1	0.34	27	9969.75	10073.32	560	370	480			
GR	1764.0	9300.00	1764.00	9551.93	1762.00	9605.84	1760.00	9645.17	1758.00	9668.98
GR	1756.0	9690.83	1754.00	9710.38	1752.00	9730.12	1750.00	9749.69	1748.00	9772.57
GR	1746.0	9799.65	1744.00	9969.75	1744.00	10014.83	1746.00	10073.32	1746.00	10188.93
GR	1744.0	10285.92	1744.00	10293.88	1746.00	10308.23	1748.00	10324.22	1750.00	10351.70
GR	1752.0	10393.89	1754.00	10441.94	1756.00	10484.28	1758.00	10521.08	1760.00	10575.15
GR	1762.0	10669.79	1762.00	10700.00						
ET		3.1	9900	10166						
X1	0.44	32	9992.46	10032.09	480	500	490			
GR	1770.0	9300.00	1770.00	9313.37	1768.00	9421.15	1766.00	9456.38	1764.00	9485.14
GR	1762.0	9505.58	1760.00	9521.65	1758.00	9537.46	1756.00	9554.40	1754.00	9578.18
GR	1752.0	9603.04	1750.00	9682.28	1748.00	9992.46	1746.00	10001.98	1746.00	10007.00
GR	1748.0	10019.54	1750.00	10032.09	1750.00	10044.36	1748.00	10105.67	1746.00	10138.90

GR	1746.0	10140.02	1748.00	10149.52	1750.00	10159.12	1752.00	10170.10	1754.00	10203.73
GR	1756.0	10257.48	1758.00	10284.67	1760.00	10316.04	1762.00	10347.87	1764.00	10382.54
GR	1766.0	10443.39	1766.00	10700.00						
ET		3.1	9880	10108						
X1	0.53	25	9970.83	10023.23	475	500	495			
GR	1772.0	9300.00	1772.00	9322.94	1770.00	9359.88	1768.00	9385.05	1766.00	9409.96
GR	1764.0	9429.60	1762.00	9449.90	1760.00	9471.98	1758.00	9508.37	1756.00	9573.14
GR	1754.0	9723.72	1752.00	9970.83	1750.00	9979.76	1750.00	10013.73	1752.00	10023.23
GR	1754.0	10094.47	1756.00	10111.56	1758.00	10125.77	1760.00	10139.50	1762.00	10161.89
GR	1764.0	10183.51	1766.00	10210.29	1768.00	10249.05	1760.00	10267.35	1762.00	10268.95
ET		3.1	9900	10170						
X1	0.62	50	9965.56	10027.28	420	460	450			
GR	1772.0	9300.00	1772.00	9347.29	1770.00	9380.60	1768.00	9409.38	1766.00	9425.95
GR	1764.0	9441.84	1764.00	9466.41	1764.00	9511.97	1762.00	9550.51	1760.00	9585.83
GR	1758.0	9654.35	1758.00	9750.86	1758.00	9751.04	1758.00	9934.36	1758.00	9934.97
GR	1756.0	9965.48	1756.00	9965.56	1754.00	9980.22	1754.00	9980.28	1754.00	10016.08
GR	1754.0	10016.37	1756.00	10027.28	1756.00	10027.34	1756.00	10030.43	1756.00	10030.53
GR	1754.0	10044.97	1754.00	10046.80	1754.00	10055.43	1754.00	10055.50	1756.00	10068.18
GR	1756.0	10068.87	1758.00	10082.06	1758.00	10082.35	1758.00	10099.76	1758.00	10099.84
GR	1758.0	10217.75	1758.00	10217.85	1760.00	10240.82	1762.00	10244.69	1760.00	10246.45
GR	1762.0	10250.34	1762.00	10262.67	1764.00	10276.76	1766.00	10296.62	1768.00	10325.20
GR	1770.0	10348.29	1772.00	10378.74	1774.00	10422.99	1776.00	10523.11	1776.00	10700.00
ET		3.1	9800	10062						
X1	0.72	35	9983.28	10020.83	400	425	420			
GR	1774.0	9300.00	1774.00	9315.54	1774.00	9315.86	1772.00	9338.31	1772.00	9338.55
GR	1770.0	9356.22	1770.00	9356.61	1768.00	9374.98	1768.00	9375.04	1766.00	9397.09
GR	1766.0	9397.14	1764.00	9427.10	1764.00	9427.53	1762.00	9471.02	1762.00	9471.12
GR	1760.0	9623.53	1760.00	9679.14	1760.00	9760.90	1760.00	9886.40	1760.00	9971.86
GR	1760.0	9983.28	1758.00	9988.72	1758.00	10013.01	1760.00	10020.83	1762.00	10062.88
GR	1764.0	10105.65	1766.00	10142.86	1768.00	10183.89	1770.00	10228.20	1772.00	10263.64
GR	1774.0	10307.70	1776.00	10365.66	1778.00	10446.05	1780.00	10559.24	1780.00	10700.00
ET		3.1	9870	10150						
X1	0.80	29	9982.14	10020.71	420	330	350			
GR	1784.0	9300.00	1784.00	9372.44	1784.00	9372.50	1782.00	9426.73	1780.00	9460.69
GR	1778.0	9484.42	1776.00	9507.24	1774.00	9523.83	1772.00	9540.67	1770.00	9561.19
GR	1768.0	9593.82	1766.00	9646.26	1766.00	9687.09	1766.00	9785.49	1764.00	9982.14
GR	1762.0	9986.25	1762.00	10011.66	1764.00	10020.71	1764.00	10067.65	1764.00	10104.60
GR	1766.0	10291.13	1768.00	10321.70	1770.00	10349.52	1772.00	10380.68	1774.00	10425.05
GR	1776.0	10495.76	1778.00	10593.27	1780.00	10681.17	1780.00	10700.00		
ET		3.1	9930	10100						
X1	0.89	36	9981.01	10077.25	520	480	500			
GR	1788.0	9300.00	1788.00	9424.76	1788.00	9426.01	1786.00	9450.57	1786.00	9451.16
GR	1784.0	9470.61	1784.00	9470.93	1782.00	9487.63	1782.00	9487.96	1780.00	9502.14
GR	1780.0	9502.40	1778.00	9516.61	1778.00	9517.07	1776.00	9532.07	1776.00	9532.28
GR	1774.0	9556.12	1774.00	9556.82	1772.00	9582.26	1772.00	9582.35	1770.00	9640.11
GR	1770.0	9792.59	1770.00	9921.21	1768.00	9981.01	1766.00	9983.09	1764.00	9985.21
GR	1764.0	10009.58	1766.00	10018.11	1768.00	10077.25	1770.00	10163.03	1772.00	10270.58
GR	1774.0	10351.92	1776.00	10413.54	1778.00	10455.94	1780.00	10517.17	1782.00	10654.68
GR	1782.0	10700.00								

ET		3.1	9870	10120						
X1	0.95	39	9984.49	10070.19	250	310	275			
GR	1790.0	9300.00	1790.00	9306.75	1790.00	9307.31	1788.00	9372.80	1788.00	9372.97
GR	1786.0	9415.98	1786.00	9416.22	1784.00	9443.26	1784.00	9443.84	1782.00	9462.12
GR	1782.0	9462.99	1780.00	9507.21	1780.00	9507.56	1778.00	9526.62	1778.00	9527.22
GR	1776.0	9551.75	1776.00	9552.05	1774.00	9590.30	1774.00	9590.40	1772.00	9688.06
GR	1772.0	9688.13	1772.00	9765.23	1772.00	9809.24	1772.00	9851.63	1772.00	9982.32
GR	1770.0	9984.49	1768.00	9986.77	1766.00	10001.77	1766.00	10019.78	1768.00	10036.54
GR	1770.0	10070.19	1772.00	10159.61	1774.00	10232.27	1776.00	10301.62	1778.00	10431.37
GR	1780.0	10537.83	1782.00	10604.33	1784.00	10676.56	1784.00	10700.00		
ET		3.1	9750	10058						
X1	1.04	42	9985.50	10029.11	500	300	400			
GR	1788.0	9300.00	1788.00	9308.87	1788.00	9309.07	1786.00	9317.99	1786.00	9318.40
GR	1784.0	9327.16	1784.00	9327.57	1782.00	9337.16	1782.00	9337.49	1780.00	9348.55
GR	1780.0	9348.99	1778.00	9371.44	1778.00	9371.87	1776.00	9451.43	1776.00	9452.44
GR	1774.0	9547.56	1774.00	9547.64	1774.00	9594.03	1774.00	9594.17	1774.00	9676.69
GR	1774.0	9678.18	1772.00	9732.85	1772.00	9740.57	1772.00	9783.28	1772.00	9803.92
GR	1772.0	9831.47	1772.00	9839.62	1772.00	9911.54	1772.00	9930.86	1772.00	9985.50
GR	1770.0	9989.40	1770.00	10015.91	1772.00	10029.11	1774.00	10041.77	1776.00	10053.67
GR	1778.0	10108.42	1780.00	10239.41	1782.00	10312.96	1784.00	10376.01	1786.00	10462.35
GR	1788.0	10616.63	1788.00	10700.00						
ET		3.1	9640	10031						
X1	1.12	40	9943.46	10023.31	320	470	420			
GR	1786.0	9300.00	1786.00	9301.69	1786.00	9301.78	1784.00	9312.43	1784.00	9312.61
GR	1782.0	9323.43	1782.00	9323.49	1780.00	9334.19	1780.00	9334.29	1778.00	9344.65
GR	1778.0	9345.18	1778	9460	1776.0	9546.20	1776.00	9547.35	1776.00	9567.17
GR	1776.0	9568.03	1776.00	9626.95	1776.0	9627.24	1776.00	9660.25	1776.00	9661.37
GR	1778.0	9701.23	1778.00	9701.63	1780.0	9764.83	1780.00	9764.91	1780.00	9845.43
GR	1778.0	9895.68	1776.00	9943.46	1774.0	9981.99	1772.00	10002.99	1772.00	10010.59
GR	1774.0	10016.88	1776.00	10023.31	1778.0	10029.68	1780.00	10036.17	1782.00	10084.32
GR	1784.0	10199.40	1786.00	10402.86	1788.0	10463.11	1790.00	10534.47	1790.00	10700.00
ET		3.1	9750	10131						
X1	1.21	49	9973.74	10035.39	400	450	440			
GR	1800.0	9300.00	1800.00	9303.71	1798.00	9333.03	1796.00	9354.86	1794.00	9371.76
GR	1792.0	9384.23	1790.00	9393.21	1788.00	9402.24	1786.00	9411.46	1784.00	9421.00
GR	1782.0	9430.60	1780.00	9440.23	1780.00	9469.65	1780.00	9507.88	1780.00	9538.20
GR	1782.0	9595.38	1782.00	9602.57	1782.00	9614.68	1782.00	9618.31	1780.00	9801.74
GR	1780.0	9802.59	1780.00	9835.89	1780.00	9836.44	1782.00	9877.07	1782.00	9886.63
GR	1780.0	9973.74	1780.00	9977.68	1778.00	9982.64	1778.00	9983.14	1776.00	9988.05
GR	1776.0	9988.44	1776.00	10013.91	1776.00	10014.50	1778.00	10020.25	1778.00	10020.60
GR	1780.0	10035.39	1780.00	10042.70	1778.00	10073.76	1778.00	10073.98	1778.00	10096.24
GR	1780.0	10106.85	1782.00	10131.31	1784.00	10206.15	1786.00	10275.22	1788.00	10351.64
GR	1790.0	10518.81	1792.00	10587.96	1794.00	10658.56	1794.00	10700.00		
ET		3.1	9960	10150						
X1	1.27	33	9969.12	10057.73	390	320	350			
GR	1790.0	9300.00	1790.00	9323.63	1788.00	9347.73	1786.00	9366.76	1784.00	9787.72
GR	1784.0	9788.51	1784.00	9835.06	1784.00	9835.11	1784.00	9960.27	1784.00	9960.65
GR	1782.0	9969.04	1782.00	9969.12	1780.00	9978.70	1780.00	9979.03	1778.00	9988.65
GR	1778.0	9989.09	1778.00	10011.61	1778.00	10012.22	1780.00	10031.48	1780.00	10031.90

	1782.0	10057.73	1782.00	10058.84	1784.00	10169.81	1784.00	10171.13	1786.00	10189.36
GR	1786.0	10189.68	1788.00	10205.64	1788.00	10206.31	1790.00	10265.97	1792.00	10417.27
GR	1794.0	10521.52	1796.00	10622.71	1796.00	10700.00				
ET		3.1	9866	10069						
X1	1.37	43	9958.87	9983.87	570	430	500			
GR	1796	9300.00	1794	9316	1792	9345	1790	9385	1788	9440
GR	1788	9490	1790.00	9627.73	1790.00	9705.39	1788.0	9806.04	1788.00	9806.97
GR	1786.0	9865.72	1786.00	9866.07	1784.00	9886.20	1784.0	9886.27	1784.00	9899.07
GR	1784.0	9899.61	1784.00	9957.84	1784.00	9958.87	1782.0	9968.70	1782.00	9968.84
GR	1782.0	9972.60	1782.00	9973.25	1784.00	9983.87	1784.0	9984.59	1784.00	10010.64
GR	1784.0	10011.18	1784.00	10045.64	1784.00	10045.64	1784.0	10046.01	1786.00	10055.46
GR	1786.0	10057.12	1788.00	10069.22	1788.00	10069.72	1788.0	10154.04	1788.00	10154.06
GR	1788.0	10164.16	1788.00	10181.45	1790.00	10258.34	1792.0	10303.11	1794.00	10374.22
GR	1796.0	10438.87	1798.00	10528.04	1798.00	10700.00				
ET		3.1	9885	10179						
X1	1.46	42	9973.03	10038.59	260	670	500			
GR	1796.0	9000.00	1796.00	9015.96	1798.00	9043.99	1800.00	9075.34	1800.00	9345
GR	1798.0	9375	1796.00	9395	1794.00	9420	1792.00	9455	1790.00	9645
GR	1790	9645	1790.00	9685	1792.0	9843.42	1792.00	9885.29	1790.00	9920.09
GR	1788.0	9973.03	1786.00	9983.48	1786.0	10027.78	1786.00	10028.33	1788.00	10038.59
GR	1788.0	10039.20	1790.00	10179.12	1790.0	10179.17	1792.00	10295.57	1792.00	10295.61
GR	1794.0	10332.13	1794.00	10332.89	1796.0	10363.15	1796.00	10363.28	1798.00	10393.04
GR	1798.0	10393.05	1800.00	10425.74	1800.0	10426.07	1802.00	10466.42	1802.00	10466.47
GR	1804.0	10507.58	1804.00	10507.82	1806.0	10631.97	1806.00	10632.30	1808.00	10913.90
GR	1808.0	10929.65	1808.00	11000.00						
	3	.07	9986.03	.05	10181.54	.065	10700			
ET		3.1	9972	10228						
X1	1.54	29	9986.03	10020.15	400	400	400			
GR	1806.0	9300.00	1806.00	9510.22	1804.00	9563.88	1802.00	9604.68	1800.00	9637.20
GR	1798.0	9669.92	1796.00	9735.34	1794.00	9972.06	1792.00	9986.03	1790.00	9993.93
GR	1790.0	10012.30	1792.00	10020.15	1792.00	10029.59	1790.00	10124.43	1790.00	10160.57
GR	1792.0	10181.54	1794.00	10288.06	1794.00	10480.53	1794.00	10495.09	1796.00	10533.67
GR	1798.0	10587.48	1800.00	10620.69	1802.00	10644.29	1798.00	10666.21	1800.00	10669.69
GR	1804.0	10675.27	1802.00	10675.88	1804.00	10685.29	1804.00	10700.00		
NH	5	.080	9924.08	.050	10010.85	.065	10316.07	.050	10417.6	.065
NH	10895									
ET		3.1	9915	10418						
X1	1.65	23	9986.26	10010.85	600	575	600			
GR	1816.0	9300.00	1816.00	9612.12	1814.00	9696.55	1812.00	9805.58	1810.00	9874.13
GR	1808.0	9884.19	1806.00	9892.47	1804.00	9899.94	1802.00	9907.78	1800.00	9915.70
GR	1798.0	9924.08	1796.00	9986.26	1796.00	10010.85	1798.00	10019.63	1800.00	10250.25
GR	1800.0	10303.79	1798.00	10316.07	1796.00	10328.00	1796.00	10363.97	1798.00	10417.60
GR	1800.0	10600	1800	10825	1804	10895				
NC	.065	.065	.050	.6	.9					
QT	1	4179			4179					
ET		3.1	9940	10306						

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     1.75        22    9964.44   10022.87       485       500       490
GR  1822.0   9300.00   1822.00    9473.63   1820.00   9572.49   1818.00   9686.97   1816.00   9755.00
GR  1814.0   9800.07   1812.00    9838.97   1810.00   9872.92   1808.00   9898.13   1806.00   9923.03
GR  1804.0   9964.44   1802.00    9975.68   1800.00   9998.40   1800.00  10003.69   1802.00  10013.01
GR  1804.0  10022.87   1804.00   10187.38   1802.00  10279.87   1802.00  10305.65   1804.00  10330.32
GR  1806.0  10358.49   1808.00   10403.64

ET            3.1       9968      10190
NC    0.065    0.065    0.050        0.6        0.9
X1     1.83       36   9983.67   10038.99       440       450       445
GR  1822.0   9000.00   1822.00    9066.97   1824.00   9131.65   1826.00   9307.78   1826.00   9460.19
GR  1824.0   9648.70   1822.00    9760.26   1820.00   9822.31   1818.00   9866.75   1816.00   9901.85
GR  1814.0   9931.27   1812.00    9956.91   1810.00   9974.62   1808.00   9983.67   1806.00   9990.95
GR  1806.0  10005.18   1808.00   10038.99   1810.00  10189.64   1810.00  10254.89   1808.00  10353.21
GR  1808.0  10359.32   1810.00   10390.30   1812.00  10422.67   1814.00  10446.72   1816.00  10487.35
GR  1818.0  10546.73   1818.00   10679.16   1818.00  10683.47   1816.00  10721.90   1816.00  10731.34
GR  1814.0  10789.14   1814.00   10800.27   1812.00  10855.83   1812.00  10858.97   1812.00  10936.20
GR  1812.0  11000.00

ET            3.1       9928      10100
X1     1.92       20   9945      10015       460       450       455
GR    1826     9735     1824       9820      1822      9860      1820      9890      1818      9910
GR    1816     9925     1814       9935      1812      9945      1810      9965      1810     10010
GR    1812    10015     1814      10025      1812     10050      1814     10100      1814     10230
GR    1814    10265     1814      10300      1814     10340      1816     10380      1818     10420

ET            3.1    9965.67      10180
          ******************************************************************
          BOX CULVERT BENEATH CAREFREE HIGHWAY (N. OF 2.00) NOT ANALYZED
          DUE TO INSUFFICIENT CAPACITY FOR HIGH FLOWS.  MOST FLOW IS IN
          RIGHT (WEST) OVERBANK AND FLOWS OVER ROADWAY.  STRUCTURES CONSIST
          OF 2-10'X5.5'X90' CBC'S WITH HEAD AND WINGWALLS. SKEWED 40 DEG.
          RIGHT.
          ******************************************************************
X1     2.00       29   9983.46   10022.29       390       390       400
GR  1830.0   9000.00   1830.00    9230.32   1830.00   9734.67   1828.00   9834.67   1826.00   9905.71
GR  1824.0   9944.86   1822.00    9956.92   1820.00   9965.44   1820.00   9965.99   1818.00   9973.16
GR  1818.0   9974.89   1816.00    9981.08   1816.00   9983.46   1814.00   9989.77   1814.00   9993.01
GR  1814.0  10005.51   1814.00   10007.19   1816.00  10022.29   1816.00  10025.64   1818.00  10088.76
GR  1818.0  10094.45   1820.00   10488.79   1820.00  10556.69   1820.00  10588.70   1822.00  10637.44
GR  1824.0  10701.32   1826.00   10748.50   1828.00  10809.26   1828.00  10897.14

ET            3.1     9956.8      10270
X1     2.07       26   9969.04      10060       415       260       390
GR  1838.0   9000.00   1838.00    9166.19   1836.00   9444.11   1836.00   9490.91   1834.00   9730.61
GR  1834.0   9739.50   1832.00    9793.58   1832.00   9833.52   1832.00   9863.76   1832.00   9869.43
GR  1830.0   9901.41   1830.00    9906.46   1828.00   9925.02   1826.00   9942.07   1824.00   9955.42
GR  1822.0   9969.04   1821.00       9980   1821.00     10020   1822.00     10060   1822.00  10120.08
GR  1822.0  10146.90    1822.0   10667.15    1824.0  10737.75    1826.0  10792.24   1826.00  10992.50
GR  1826.0  11000.00
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		3.1	9965.2	10219						
X1	2.14	25	9979.01	10025.81	385	380	380			
GR	1842.0	9000.00	1842.00	9068.32	1842.00	9096.42	1842.00	9106.78	1842.00	9107.17
GR	1842.0	9124.18	1842.00	9126.13	1840.00	9368.44	1838.00	9666.77	1836.00	9789.99
GR	1834.0	9840.56	1832.00	9888.30	1830.00	9926.13	1828.00	9961.98	1826.00	9969.94
GR	1824.0	9979.01	1824.00	10025.81	1826.00	10218.97	1826.00	10361.55	1826.00	10637.58
GR	1828.0	10689.74	1830.00	10753.61	1830.00	10858.53	1828.00	10980.00	1828.00	11000.00
ET		3.1	9937	10150						
X1	2.23	17	9979.43	10023.07	435	445	440			
GR	1844.0	9000.00	1844.00	9114.42	1842.00	9451.06	1840.00	9689.56	1838.00	9803.45
GR	1836.0	9879.99	1834.00	9916.62	1832.00	9941.49	1830.00	9962.82	1828.00	9979.43
GR	1826.0	9994.11	1826.00	10007.33	1828.00	10023.07	1830.00	10034.76	1832.00	10373.00
GR	1832	10480	1834	10620						
QT	1	1701			1701					
ET		3.1	9962	10082						
X1	2.37	9	9985	10025	750	695	715			
GR	1842	9785	1840	9875	1838	9985	1836	9995	1836	10008
GR	1838	10025	1838	10082	1840	10200	1841	10260		
ET		3.1	9968	10070						
NC	0.065	0.065	0.050	0.6	0.9					
X1	2.45	8	9990	10020	430	420	425			
GR	1846	9725	1844	9968	1842	9990	1840	9999	1840	10006
GR	1842	10020	1844	10103	1846	10180				
		3.1	9940	10041						
	2.53	8	9982.48	10018.54	505	520	515			
GR	1852.0	9678.42	1850.0	9850.40	1848.0	9982.48	1846.0	9993.27	1846.0	10008.62
GR	1848.0	10018.54	1850.0	10041.29	1852.0	10637.05				
ET		3.1	9950	10048						
X1	2.62	10	9985	10030	430	600	490			
GR	1857	9650	1856	9915	1854	9985	1853	10000	1854	10015
GR	1855	10030	1854	10048	1856	10078	1858	10130	1860	10250
ET		3.1	9950.9	10035						
X1	2.71	18	9983.65	10017.97	460	415	450			
GR	1866.0	9889.04	1864.00	9941.01	1862.00	9953.35	1860.00	9983.65	1858.00	9992.80
GR	1858.0	10007.67	1860.00	10017.97	1862.00	10034.97	1862.00	10053.45	1860.00	10084.15
GR	1860.0	10094.97	1862.00	10120.87	1862.00	10188.19	1860.00	10205.44	1860.00	10209.73
GR	1862.0	10229.70	1864.00	10250.09	1866.00	10321.25				
ET		3.1	9958.44	10042.24						
X1	2.79	13	9989.23	10012	485	455	470			
GR	1870.0	9897.75	1868.00	9958.44	1866.00	9980.34	1864.00	9989.23	1862.00	9998.07
GR	1862.0	10000.57	1864.00	10012.00	1866.00	10025.43	1868.00	10042.74	1870.00	10060.10
GR	1870.0	10188.87	1870.00	10272.86	1872.00	10382.18				

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                3.1     9977.2    10038
X1     2.88      12    9986.86   10031.55     475       445       460
GR   1878.0  9937.71   1876.00    9969.32  1874.00   9978.63   1872.00   9986.86    1870.0   9995.09
GR   1870.0 10011.68   1872.00   10031.55  1872.00  10086.76   1872.00  10091.41    1874.0  10121.02
GR   1876.0 10159.80   1877.9     10230

ET              3.1      9927     10022
X1     2.97      10    9982.29   10014.46     525       470       490
GR   1882.0  9914.60   1880.00    9927.22   1878.0   9939.80    1878.0   9970.28    1878.0   9982.29
GR   1876.0  9992.56   1876.00   10006.23   1878.0  10014.46    1880.0  10022.68    1882.0  10030.89

  BEGIN FLOOD CONTROL DISTRICT CROSS SECTIONS


ET              3.1     9977.9     10062
X1     3.08       9      9988     10045     485       535       520
GR   1890.0    9955    1889.5    9965.0  1883.8    9988.0    1880.4   10000.0    1881.4   10015.0
GR   1881.4 10021.0    1883.2   10029.0  1882.6   10045.0    1889.8   10089.0

NC     .065    .065      .050       0.1     0.3
ET              3.1      9966     10033
X1    3.111      10      9990     10009     200       200       200
GR   1889.3  9920.0    1890.0    9930.0  1885.6    9958.0    1885.2    9966.0    1885.2    9976.0
GR   1885.0  9990.0    1882.6   10000.0  1882.4   10009.0    1889.4   10039.0    1891.2     10050

NC      .05     .05       .03
ET              3.1      9964     10036
       3.120       7      9975     10025      50        50        50
       1897.9  9920.0    1892.4    9956.0  1882.9    9975.0    1882.9   10000.0    1882.9   10025.0
GR   1892.4 10044.0    1893.7   10051.0

NC      .05     .05       .03
ET              3.1      9965     10035
X1     3.13       7      9975     10025      38        59        50
GR   1894.6  9937.0    1892.9    9956.0  1883.4    9975.0    1883.4   10000.0    1883.4   10025.0
GR   1892.9 10044.0    1895.0   10048.0

NC     .050    .050      .030
ET              3.1      9966     10034
X1     3.14       7      9975     10025      50        53        50
GR   1896.2  9913.0    1893.4    9956.0  1883.9    9975.0    1883.9   10000.0    1883.9   10025.0
GR   1893.4 10044.0    1898.6   10069.0

ET              3.1      9988     10012
NC                                  0.3      .5
X1    3.149       7    9988.0   10012.0      48        52        50
X3       10                                                    1894.4    1894.4
GR   1896.0  9962.8    1884.4    9986.0  1884.4    9988.0    1884.4   10000.0    1884.4   10012.0
GR   1884.4 10014.0    1896.0   10037.2
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SC    2.013      .4      3.0      0.0      10.0      12.0      150.0      8.1      1885.61      1884.42
NC     .05      .05      .013
ET              3.1      9988     10013
          ****************************************************************
          BOX CULVERT BENEATH CLOUD ROAD AS ANALYZEED BY THE FLOOD CONTROL
          DISTRICT OF MARACOPA COUNTY.  TWO 12'X10'X155' CBC'S WITH
          HEAD AND WINGWALLS WILL BE INSTALLED.
          ****************************************************************
X1    3.177       16   9987.99     10013      150.0      150.0      150.0
X2                         2                 1899.0
X3       10                                                        1899.2      1899.5
BT       -8   9931.0    1899.0               9960.0     1899.1               9988.0      1899.2
BT            10000.0   1899.2              10001.0     1899.3              10013.0      1899.5
BT            10042.6   1899.9              10083.0     1900.5
GR  1899.0    9931.0    1899.1    9960.0     1885.6     9987.0     1895.6    9987.0      1895.6     9987.99
GR  1885.6    9988.0    1885.6   10000.0     1895.6    10000.0     1895.6   10001.0      1885.6     10001.0
GR  1885.6   10013.0    1895.6   10013.0     1895.6    10014.0     1885.6   10014.0      1899.9     10042.6
GR  1900.5   10083.0

NC     .050     .050      .030
ET              3.1      9965     10035
X1    3.206       6      9975     10025       140        160        150
GR  1899.1    9948.0    1899.1    9956.0     1889.6     9975.0     1889.6   10000.0      1889.6     10025.0
GR  1899.1   10044.0

NC     .065     .065      .050       0.1       0.3
ET              3.1      9965     10034
X1    3.224       9      9965     10013        96         96         96
GR  1898.1     9900    1896.4      9930     1894.4      9965     1892.2     9973      1892.2       10000
GR  1892.2    10007    1893.2     10013     1894.4     10034     1897.0    10050

ET              3.1      9981     10070
X1    3.244      12      9989     10063       104        104        104
GR  1899.8     9925    1899.8      9954     1899.0      9979     1892.8     9989      1892.8       10000
GR  1892.8    10005    1894.0     10013     1894.9     10036     1894.2    10048      1895.6       10063
GR  1899.2    10075    1898.8     10090

ET              3.1      9979     10036
X1    3.263      12      9987     10020       105         95        100
GR  1903.8     9925    1904.0      9949     1903.8      9968     1894.0     9987      1893.4        9991
GR  1893.6    10000    1893.6     10008     1895.6     10020     1898.6    10039      1898.6       10057
GR  1903.0    10075    1904.2     10090

ET              3.1      9962     10037
X1     3.30      10      9971     10017       200        200        200
GR  1906.6     9925    1906.8      9945     1898.7      9971     1896.7     9985      1895.8       10000
GR  1895.8    10005    1898.4     10017     1900.4     10032     1905.8    10054      1906.8       10075

    END FLOOD CONTROL DISTRICT CROSS SECTIONS
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[illegible]	1	1590			1590					
NC	.070	.070	.055							
ET		3.1	9977	10039						
X1	3.40	28	9987.53	10023.50	495	495	495			
GR	1916.0	9946.45	1914.00	9956.32	1914.00	9956.41	1912.00	9964.08	1912.00	9964.10
GR	1910.0	9971.90	1910.00	9971.93	1908.00	9979.64	1908.00	9979.78	1906.00	9987.53
GR	1906.0	9987.63	1904.00	9995.48	1904.00	9995.88	1904.00	10009.01	1904.00	10009.17
GR	1906.0	10023.5	1906.00	10023.58	1908.00	10036.17	1908.00	10036.20	1910.00	10043.98
GR	1910.0	10044.07	1912.00	10051.89	1912.00	10051.94	1914.00	10059.81	1914.00	10059.91
GR	1916.0	10079.98	1916.00	10081.54	1918.00	10100.02				
ET		3.1	9984	10037						
X1	3.49	25	9993.39	10019.30	240	320	310			
GR	1924.0	9959.01	1922.0	9966.96	1920.0	9972.23	1918.0	9977.52	1916.0	9982.81
GR	1914.0	9988.10	1912.0	9993.39	1910.0	9998.68	1910.0	10002.70	1912.0	10019.28
GR	1912.0	10019.30	1914.0	10030.47	1914.0	10031.22	1916.0	10037.93	1916.0	10038.11
GR	1918.0	10045.24	1920.0	10052.36	1920.0	10052.47	1922.0	10059.49	1922.0	10059.68
GR	1924	10066	1926	10073	1928	10080	1930	10103	1930.0	10103.37
ET		3.1	9957	10023						
X1	3.58	15	9971.33	10012.79	435	455	450			
GR	1930.0	9931.92	1930.00	9933.15	1928.00	9939.44	1926.00	9945.93	1924.00	9953.12
GR	1922.0	9960.31	1920.00	9971.33	1918.00	9987.46	1918.00	10005.42	1920.00	10012.79
GR	1922.0	10019.84	1924.00	10026.89	1926.00	10033.94	1928.00	10040.58	1930.00	10046.59
ET		3.1	9977	10035						
X1	3.67	14	9984.87	10030.36	475	495	485			
[illegible]	1938.0	9907.17	1936.00	9942.18	1934.00	9962.48	1932.0	9970.43	1930.0	9977.65
[illegible]	1928.0	9984.87	1926.00	9992.09	1926.00	10024.73	1928.0	10030.36	1930.0	10035.98
GR	1932.0	10041.76	1934.00	10047.62	1936.00	10053.26	1938.0	10058.89		
ET		3.1	9957.5	10014.5						
X1	3.75	22	9971.90	10007.05	380	415	395			
GR	1950.0	9876.34	1948.00	9910.13	1946.00	9924.20	1944.0	9930.38	1942.0	9936.55
GR	1940.0	9942.72	1938.00	9949.22	1936.00	9956.78	1934.0	9964.34	1932.0	9971.90
GR	1930.0	9989.55	1930.00	10003.34	1932.00	10007.05	1934.0	10010.96	1936.0	10014.88
GR	1938.0	10018.79	1940.00	10022.71	1942.00	10035.39	1944.0	10048.70	1946.0	10063.97
GR	1948.0	10093.76	1950.00	10213.57						
ET		3.1	9971	10020.3						
X1	3.84	18	9987.14	10009.61	490	440	470			
GR	1954.0	9905.76	1952.00	9933.90	1950.00	9944.84	1948.0	9953.30	1946.0	9961.76
GR	1944.0	9970.22	1942.00	9978.68	1940.00	9987.14	1938.0	9996.31	1938.0	10003.89
GR	1940.0	10009.61	1942.00	10015.46	1944.00	10021.31	1946.0	10027.17	1948.0	10033.02
GR	1950.0	10038.87	1952.00	10044.72	1954.00	10050.57				
ET		3.1	9977	10035						
X1	3.93	19	9988.96	10017.08	400	400	400			
GR	1962.0	9800.00	1962.00	9827.90	1960.00	9931.27	1958.00	9956.17	1956.00	9963.25
GR	1954.0	9970.33	1952.00	9976.73	1950.00	9982.84	1948.00	9988.96	1946.00	9995.08
GR	1946.0	10007.63	1948.00	10017.08	1950.00	10026.77	1952.00	10036.53	1954.00	10046.30
GR	1956.0	10094.79	1958.00	10133.40	1960.00	10157.69	1960.00	10200.00		

E[illegible]		3.1	9971.4	10048.6						
X1	4.03	13	9996.54	10025.81	515	570	545			
GR	1970.0	9800.00	1970.00	9879.70	1968.00	9931.31	1966.00	9948.76	1964.00	9967.67
GR	1962.0	9982.40	1960.00	9996.54	1960.00	10025.81	1962.00	10040.70	1964.00	10051.03
GR	1966.0	10061.34	1968.00	10081.51	1970.00	10101.15				
ET		3.1	9989.7	10056.3						
X1	4.10	16	9999.62	10021.64	420	350	380			
GR	1980.0	9940.66	1978.00	9975.33	1976.00	9978.72	1974.00	9982.11	1972.0	9985.51
GR	1970.0	9989.04	1968.00	9992.56	1966.00	9996.09	1964.00	9999.62	1964.0	10021.64
GR	1966.0	10033.82	1968.00	10046.29	1970.00	10058.77	1972.00	10071.25	1974.0	10105.57
GR	1976.0	10147.83								
ET		3.1	9966.3	10041						
X1	4.20	17	9976.93	10028.91	510	570	540			
GR	1984.0	9800.00	1984.00	9802.08	1984.00	9894.91	1984.00	9896.57	1982.00	9931.94
GR	1980.0	9944.94	1978.00	9955.60	1976.00	9966.26	1974.00	9976.93	1972.00	9987.59
GR	1972.0	10017.42	1974.00	10028.91	1976.00	10041.11	1978.00	10052.12	1980.00	10064.51
GR	1982.0	10076.71	1984.00	10088.92						
ET		3.1	9971	10024.8						
X1	4.32	19	9981.16	10014.1	640	560	600			
GR	2004.0	9924.43	2002.00	9932.59	2000.00	9939.08	1998.00	9945.56	1996.00	9952.05
GR	1994.0	9958.63	1992.00	9966.14	1990.00	9973.65	1988.00	9981.16	1986.00	9989.17
GR	1986.0	10006.15	1988.00	10014.10	1990.00	10022.05	1992.00	10030.01	1994.00	10038.02
GR	1996.0	10046.02	1998.00	10054.02	2000.00	10062.03	2002.00	10070.03		
[illegible]		3.1	9971	10050						
[illegible]	4.41	19	9985.37	10012.15	460	470	470			
GR	2010.0	9941.37	2008.00	9949.15	2006.00	9956.45	2004.0	9963.52	2002.0	9970.59
GR	2000.0	9977.66	1998.00	9985.37	1998.00	10012.15	2000.0	10042.80	2002.0	10051.33
GR	2004.0	10059.56	2006.00	10068.16	2008.00	10076.77	2010.0	10085.38	2012.0	10093.99
GR	2014.0	10106.49	2016.00	10119.00	2018.00	10131.20	2020.0	10145.88		
ET		3.1	9986	10027.3						
X1	4.51	28	9993.31	10019.67	545	490	515			
GR	2032.0	9800.00	2032.00	9834.12	2030.00	9862.15	2028.00	9874.73	2026.00	9885.42
GR	2024.0	9895.86	2024.00	9911.86	2026.00	9927.27	2026.00	9935.95	2024.00	9967.66
GR	2022.0	9971.94	2020.00	9976.21	2018.00	9980.48	2016.00	9984.76	2014.00	9989.03
GR	2012.0	9993.31	2010.00	9997.58	2010.00	10008.64	2012.00	10019.67	2014.00	10024.19
GR	2016.0	10028.71	2018.00	10032.35	2020.00	10035.28	2022.00	10038.37	2024.00	10041.45
GR	2026.0	10044.53	2028.00	10047.62	2030.00	10050.70				

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .600 CEHV= .900
*SECNO 2.600

2.600	11.70	1735.70	1733.86	1735.70	1736.24	.54	.00	.00	1730.00
17136.0	1864.2	6919.0	8352.7	602.2	864.5	2063.7	.0	.0	1728.00
.00	3.10	8.00	4.05	.070	.055	.070	.000	1724.00	9754.50
.004069	0.	0.	0.	0	9	0	.00	705.15	10459.66

FLOW DISTRIBUTION FOR SECNO= 2.60 CWSEL= 1735.70

STA=	9755.	9780.	9820.	9935.	9945.	10030.	10140.	10265.	10335.	10370.	10390.	10440.	10460.
PER Q=	.2	1.7	8.0	1.0	40.4	20.7	13.0	4.9	3.6	2.9	3.5	.1	
AREA=	21.7	108.0	425.5	47.0	864.5	737.0	587.5	259.0	164.5	114.0	185.0	16.7	
VEL=	1.2	2.6	3.2	3.8	8.0	4.8	3.8	3.2	3.8	4.3	3.2	1.2	
DEPTH=	.8	2.7	3.7	4.7	10.2	6.7	4.7	3.7	4.7	5.7	3.7	.8	

*SECNO .040

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

.040	11.04	1737.04	1733.54	.00	1737.15	.11	.65	.26	1734.00
5763.0	1395.8	2828.9	1538.3	794.7	842.6	851.8	18.0	3.8	1730.00
.03	1.76	3.36	1.81	.070	.055	.070	.000	1726.00	9701.62
.001032	140.	205.	350.	2	18	0	.00	566.67	10268.29

FLOW DISTRIBUTION FOR SECNO= .04 CWSEL= 1737.04

STA=	9702.	9725.	9765.	9850.	9915.	9922.	10032.	10090.	10169.	10256.	10268.
PER Q=	.1	1.6	10.3	11.4	.9	49.1	13.7	9.6	3.4	.0	
AREA=	12.1	81.6	343.3	327.5	30.1	842.6	349.2	319.5	176.5	6.5	
VEL=	.4	1.1	1.7	2.0	1.7	3.4	2.3	1.7	1.1	.4	
DEPTH=	.5	2.0	4.0	5.0	4.0	7.7	6.0	4.0	2.0	.5	

*SECNO .130

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .40

.130	5.91	1737.91	1737.28	.00	1738.29	.38	.90	.24	1734.00
5763.0	107.0	2497.6	3158.3	35.7	372.5	1078.6	37.8	9.7	1734.00
.05	3.00	6.70	2.93	.070	.055	.070	.000	1732.00	9959.90
.006559	425.	390.	465.	2	13	0	.00	590.83	10550.72

FLOW DISTRIBUTION FOR SECNO= .13 CWSEL= 1737.91

STA=	9960.	9969.	9978.	10048.	10172.	10225.	10264.	10408.	10543.	10551.
PER Q=	.3	1.6	43.3	22.0	4.6	3.4	12.6	11.9	.2	
AREA=	8.9	26.8	372.5	362.5	100.4	74.7	274.6	259.0	7.3	
VEL=	1.6	3.5	6.7	3.5	2.6	2.6	2.6	2.6	1.6	
DEPTH=	1.0	2.9	5.4	2.9	1.9	1.9	1.9	1.9	1.0	

*SECNO .170

.170	7.30	1739.30	1738.72	.00	1739.77	.47	1.40	.08	1736.00
5763.0	32.5	3874.2	1856.3	12.7	600.7	738.7	44.6	12.5	1736.00
.06	2.56	6.45	2.51	.070	.055	.070	.000	1732.00	9959.55
.006478	275.	225.	200.	2	9	0	.00	573.75	10533.30

FLOW DISTRIBUTION FOR SECNO= .17 CWSEL= 1739.30

STA=	9960.	9963.	9967.	10084.	10128.	10174.	10260.	10424.	10511.	10521.	10529.	10533.
PER Q=	.0	.5	67.2	5.2	2.1	4.0	7.5	10.4	2.1	.9	.1	
AREA=	2.0	10.7	600.7	101.7	58.8	112.4	211.6	201.1	32.4	17.7	3.0	
VEL=	1.2	2.8	6.4	3.0	2.0	2.0	2.0	3.0	3.8	2.9	1.2	
DEPTH=	.6	2.3	5.1	2.3	1.3	1.3	1.3	2.3	3.3	2.3	.6	

*SECNO .280

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

.280	5.70	1743.70	1743.37	.00	1744.35	.65	4.41	.17	1740.00
5763.0	2421.5	1995.8	1345.7	484.2	220.8	363.2	57.0	17.6	1742.00
.09	5.00	9.04	3.70	.070	.055	.070	.000	1738.00	9789.27
.015485	550.	470.	380.	3	13	0	.00	468.05	10257.33

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .28 CWSEL= 1743.70

STA=	9789.	9814.	9985.	10035.	10235.	10241.	10257.
PER Q=	.8	41.2	34.6	22.1	.7	.6	
AREA=	20.6	463.6	220.8	338.9	10.4	13.9	
VEL=	2.4	5.1	9.0	3.8	3.8	2.4	
DEPTH=	.8	2.7	4.5	1.7	1.7	.8	

*SECNO .340

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.76

.340	4.28	1748.28	1746.80	.00	1748.49	.20	3.87	.27	1744.00
5763.0	1918.4	1768.7	2075.9	595.6	386.1	687.2	71.7	23.0	1746.00
.12	3.22	4.58	3.02	.070	.055	.070	.000	1744.00	9769.22
.004974	560.	480.	370.	3	11	0	.00	559.03	10328.25

FLOW DISTRIBUTION FOR SECNO= .34 CWSEL= 1748.28

STA=	9769.	9800.	9970.	10073.	10189.	10286.	10294.	10308.	10324.	10328.
PER Q=	1.1	32.2	30.7	12.0	18.4	2.3	2.7	.6	.0	
AREA=	35.5	560.1	386.1	265.1	319.4	34.2	47.3	20.7	.6	
VEL=	1.8	3.3	4.6	2.6	3.3	4.0	3.3	1.8	.4	
DEPTH=	1.2	3.3	3.7	2.3	3.3	4.3	3.3	1.3	.1	

*SECNO .440

.440	5.49	1751.49	1750.53	.00	1751.80	.32	3.22	.10	1748.00
5763.0	2945.0	1013.1	1804.9	816.1	157.8	398.8	88.8	29.2	1750.00
.15	3.61	6.42	4.53	.070	.055	.070	.000	1746.00	9623.28
.009099	480.	490.	500.	3	8	0	.00	544.02	10167.30

FLOW DISTRIBUTION FOR SECNO= .44 CWSEL= 1751.49

STA=	9623.	9682.	9992.	10032.	10044.	10106.	10139.	10140.	10150.	10159.	10167.
PER Q=	1.3	49.8	17.6	.8	9.8	14.2	.7	4.0	1.5	.2	
AREA=	43.9	772.1	157.8	18.3	152.6	149.2	6.1	42.6	23.9	6.1	
VEL=	1.7	3.7	6.4	2.6	3.7	5.5	6.3	5.4	3.7	1.6	
DEPTH=	.7	2.5	4.0	1.5	2.5	4.5	5.5	4.5	2.5	.7	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .530

.530	5.75	1755.75	1755.13	.00	1756.22	.46	4.28	.13	1752.00
5763.0	2824.7	2160.5	777.8	795.8	283.0	209.2	103.6	35.0	1752.00
.18	3.55	7.63	3.72	.070	.055	.070	.000	1750.00	9591.77
.008517	475.	495.	500.	4	10	0	.00	517.68	10109.45

FLOW DISTRIBUTION FOR SECNO= .53 CWSEL= 1755.75

STA=	9592.	9724.	9971.	10023.	10094.	10109.
PER Q=	3.6	45.4	37.5	13.1	.4	
AREA=	115.6	680.2	283.0	196.1	13.1	
VEL=	1.8	3.8	7.6	3.8	1.8	
DEPTH=	.9	2.8	5.4	2.8	.9	

*SECNO .620

.620	5.57	1759.57	1759.16	.00	1760.04	.48	3.81	.01	1756.00
5763.0	1543.4	2394.6	1825.0	560.0	318.0	457.0	116.7	40.8	1756.00
.20	2.76	7.53	3.99	.070	.055	.070	.000	1754.00	9600.70
.008791	420.	450.	460.	3	10	0	.00	635.13	10235.83

DISTRIBUTION FOR SECNO= .62 CWSEL= 1759.57

STA=	9601.	9751.	9934.	9965.	9966.	10027.	10045.	10055.	10068.	10100.	10218.	10236.
PER Q=	8.3	13.4	5.1	.0	41.6	7.2	6.3	5.5	3.7	8.6	.4	
AREA=	193.1	287.3	79.2	.3	318.0	77.5	58.2	58.3	64.0	184.8	14.2	
VEL=	2.5	2.7	3.7	4.6	7.5	5.3	6.3	5.4	3.3	2.7	1.7	
DEPTH=	1.3	1.6	2.5	3.6	5.2	4.4	5.6	4.6	2.0	1.6	.8	

*SECNO .720

.720	4.97	1762.97	1761.89	.00	1763.20	.23	3.01	.15	1760.00
5763.0	4517.3	1015.9	229.8	1383.4	173.7	93.4	130.7	46.7	1760.00
.23	3.27	5.85	2.46	.070	.055	.070	.000	1758.00	9449.75
.006214	400.	420.	425.	2	16	0	.00	634.05	10083.80

FLOW DISTRIBUTION FOR SECNO= .72 CWSEL= 1762.97

STA=	9450.	9471.	9624.	9679.	9761.	9886.	9972.	9983.	10021.	10063.	10084.
PER Q=	.2	13.8	10.0	14.6	22.5	15.3	2.0	17.6	3.8	.2	
AREA=	10.4	301.5	165.6	243.5	373.8	254.5	34.0	173.7	83.2	10.2	
VEL=	1.0	2.6	3.5	3.5	3.5	3.5	3.5	5.8	2.6	1.0	
DEPTH=	.5	2.0	3.0	3.0	3.0	3.0	3.0	4.6	2.0	.5	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .800

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .59

.800	4.71	1766.71	1766.64	.00	1767.31	.60	3.77	.34	1764.00
5763.0	1596.3	1611.1	2555.6	440.6	168.4	549.2	143.3	52.6	1764.00
.25	3.62	9.57	4.65	.070	.055	.070	.000	1762.00	9627.73
.017991	420.	350.	330.	2	10	0	.00	674.20	10301.93

FLOW DISTRIBUTION FOR SECNO= .80 CWSEL= 1766.71

STA=	9628.	9646.	9687.	9785.	9982.	10021.	10068.	10105.	10291.	10302.
PER Q=	.2	1.1	2.7	23.7	28.0	12.2	9.6	22.5	.1	
AREA=	6.5	28.9	69.5	335.6	168.4	127.1	100.0	318.3	3.8	
VEL=	1.4	2.3	2.3	4.1	9.6	5.5	5.5	4.1	1.4	
DEPTH=	.4	.7	.7	1.7	4.4	2.7	2.7	1.7	.4	

*SECNO .890

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.79

.890	7.64	1771.64	1770.84	.00	1772.05	.41	4.62	.12	1768.00
5763.0	1554.3	3419.6	789.1	657.9	541.0	298.8	158.6	60.3	1768.00
.28	2.36	6.32	2.64	.070	.055	.070	.000	1764.00	9592.74
.005617	520.	500.	480.	4	15	0	.00	658.51	10251.24

FLOW DISTRIBUTION FOR SECNO= .89 CWSEL= 1771.64

STA=	9593.	9640.	9793.	9921.	9981.	10077.	10163.	10251.
PER Q=	.9	9.6	8.1	8.3	59.3	11.9	1.7	
AREA=	38.9	250.1	211.0	157.9	541.0	226.5	72.3	
VEL=	1.4	2.2	2.2	3.0	6.3	3.0	1.4	
DEPTH=	.8	1.6	1.6	2.6	5.6	2.6	.8	

*SECNO .950

.950	7.44	1773.44	1773.15	.00	1774.09	.66	1.82	.23	1770.00
5763.0	1111.0	3847.6	804.4	478.3	497.7	255.3	167.1	64.2	1770.00
.30	2.32	7.73	3.15	.070	.055	.070	.000	1766.00	9617.93
.007970	250.	275.	310.	4	10	0	.00	593.86	10211.79

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .95 CWSEL= 1773.44

STA=	9618.	9688.	9765.	9809.	9852.	9982.	9984.	10070.	10160.	10212.
PER Q=	1.3	4.6	2.6	2.5	7.9	.3	66.8	13.0	1.0	
AREA=	50.4	110.8	63.2	60.9	187.7	5.3	497.7	217.9	37.5	
VEL=	1.5	2.4	2.4	2.4	2.4	2.8	7.7	3.4	1.5	
DEPTH=	.7	1.4	1.4	1.4	1.4	2.4	5.8	2.4	.7	

*SECNO 1.040

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.64

1.040	6.25	1776.25	1774.36	.00	1776.41	.16	2.01	.30	1772.00
5763.0	4433.3	1206.8	122.9	1661.7	255.1	56.6	183.9	70.6	1772.00
.33	2.67	4.73	2.17	.070	.055	.070	.000	1770.00	9441.78
.002963	500.	400.	300.	1	11	0	.00	618.53	10060.31

FLOW DISTRIBUTION FOR SECNO= 1.04 CWSEL= 1776.25

STA=	9442.	9594.	9677.	9733.	9783.	9804.	9831.	9912.	9931.	9986.	10029.	10060.
PER Q=	6.3	6.4	7.9	11.2	4.6	6.1	17.9	4.3	12.2	20.9	2.1	
AREA=	223.8	185.4	180.6	214.0	87.6	116.9	339.7	82.0	231.8	255.1	56.6	
VEL=	1.6	2.0	2.5	3.0	3.0	3.0	3.0	3.0	3.0	4.7	2.2	
DEPTH=	1.5	2.2	3.2	4.2	4.2	4.2	4.2	4.2	4.2	5.9	1.8	

*SECNO 1.120

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.120	6.39	1778.39	1778.39	.00	1779.36	.97	2.18	.73	1776.00
5763.0	2354.4	3377.6	31.0	567.0	348.1	9.1	195.4	75.0	1776.00
.35	4.15	9.70	3.40	.070	.055	.070	.000	1772.00	9342.63
.018335	320.	420.	470.	0	8	0	.00	516.43	10030.95

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.12 CWSEL= 1778.39

STA=	9343.	9546.	9567.	9627.	9660.	9701.	9943.	10023.	10031.
PER Q=	8.7	4.5	12.7	7.1	3.7	4.2	58.6	.5	
AREA=	165.3	50.1	142.9	79.6	58.1	70.9	348.1	9.1	
VEL=	3.0	5.1	5.1	5.1	3.7	3.4	9.7	3.4	
DEPTH=	.8	2.4	2.4	2.4	1.4	.3	4.4	1.2	

*SECNO 1.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.05

1.210	6.91	1782.91	1781.78	.00	1783.14	.23	3.34	.44	1780.00
5763.0	2714.3	1859.4	1189.4	1143.3	339.0	357.7	208.6	80.9	1780.00
.38	2.37	5.48	3.33	.070	.055	.070	.000	1776.00	9426.20
.004359	400.	440.	450.	4	12	0	.00	739.42	10165.61

FLOW DISTRIBUTION FOR SECNO= 1.21 CWSEL= 1782.91

STA=	9426.	9470.	9508.	9538.	9595.	9802.	9836.	9887.	9974.	10035.	10074.	10096.	10131.
PER Q=	5.0	5.5	4.4	4.1	13.7	4.9	3.2	6.3	32.3	8.4	7.8	4.2	
AREA=	106.3	111.5	88.4	109.6	372.6	99.6	88.2	167.0	339.0	143.0	110.5	88.4	
VEL=	2.7	2.9	2.9	2.2	2.1	2.9	2.1	2.2	5.5	3.4	4.1	2.8	
DEPTH=	2.4	2.9	2.9	1.9	1.8	2.9	1.7	1.9	5.5	3.7	4.9	2.5	

STA=	10131.	10166.
PER Q=	.2	
AREA=	15.7	
VEL=	.8	
DEPTH=	.5	

*SECNO 1.270

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .66

1.270	7.12	1785.12	1784.99	.00	1785.98	.86	2.27	.57	1782.00
5763.0	697.6	4209.7	855.7	342.5	494.0	245.5	220.8	86.7	1782.00
.40	2.04	8.52	3.48	.070	.055	.070	.000	1778.00	9552.63
.010150	390.	350.	320.	3	5	0	.00	628.69	10181.31

FLOW DISTRIBUTION FOR SECNO= 1.27 CWSEL= 1785.12

STA=	9553.	9788.	9960.	9969.	10058.	10170.	10181.
PER Q=	3.3	7.7	1.1	73.0	14.6	.2
AREA=	131.3	192.7	18.4	494.0	238.4	7.2
VEL=	1.5	2.3	3.5	8.5	3.5	1.6
DEPTH=	.6	1.1	2.1	5.6	2.1	.6

*SECNO 1.370

3265 DIVIDED FLOW

HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

1.370	7.38	1789.38	1787.30	.00	1789.63	.25	3.29	.36	1784.00
5763.0	2694.7	1037.1	2031.1	828.7	164.0	600.7	236.4	94.6	1784.00
.43	3.25	6.33	3.38	.070	.055	.070	.000	1782.00	9402.14
.004557	570.	500.	430.	3	17	0	.00	680.27	10234.37

FLOW DISTRIBUTION FOR SECNO= 1.37 CWSEL= 1789.38

STA=	9402.	9585.	9866.	9886.	9899.	9958.	9959.	9984.	10011.	10046.	10057.	10154.	10234.
PER Q=	3.9	7.1	5.9	5.3	24.1	.4	18.0	11.0	14.4	3.2	4.9	1.9
AREA=	160.1	188.6	89.3	69.2	316.0	5.5	164.0	143.9	188.2	49.0	145.5	74.1
VEL=	1.4	2.2	3.8	4.4	4.4	4.4	6.3	4.4	4.4	3.7	1.9	1.5
DEPTH=	.9	.7	4.4	5.4	5.4	5.4	6.6	5.4	5.4	4.3	1.5	.9

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.460

3265 DIVIDED FLOW

1.460	5.96	1791.96	1791.33	.00	1792.38	.42	2.60	.16	1788.00
5763.0	1429.3	2621.4	1712.3	605.0	370.3	529.5	252.5	101.6	1788.00
.46	2.36	7.08	3.23	.070	.055	.070	.000	1786.00	9458.43
.006878	260.	500.	670.	2	20	0	.00	789.67	10293.47

FLOW DISTRIBUTION FOR SECNO= 1.46 CWSEL= 1791.96

STA=	9458.	9645.	9685.	9841.	9920.	9973.	10039.	10039.	10179.	10293.
PER Q=	5.5	3.8	4.6	1.0	9.9	45.5	.2	26.1	3.4	
AREA=	183.2	78.6	152.7	33.6	156.9	370.3	2.4	414.7	112.2	
VEL=	1.7	2.8	1.7	1.7	3.6	7.1	4.4	3.6	1.7	
DEPTH=	1.0	2.0	1.0	.4	3.0	5.6	4.0	3.0	1.0	

1490 NH CARD USED
*SECNO 1.540

1.540	4.76	1794.76	1793.72	.00	1795.16	.40	2.76	.01	1792.00
5763.0	94.9	951.3	4716.8	58.9	146.7	984.6	264.8	108.1	1792.00
.48	1.61	6.48	4.79	.070	.050	.052	.000	1790.00	9881.95
.006940	400.	400.	400.	3	17	0	.00	627.83	10509.78

FLOW DISTRIBUTION FOR SECNO= 1.54 CWSEL= 1794.76

STA=	9882.	9986.	10020.	10124.	10161.	10182.	10288.	10481.	10510.
PER Q=	1.6	16.5	39.3	20.9	8.2	9.0	4.0	.4	
AREA=	58.9	146.7	382.8	172.1	78.9	187.6	146.5	16.7	
VEL=	1.6	6.5	5.9	7.0	6.0	2.8	1.6	1.4	
DEPTH=	.6	4.3	3.7	4.8	3.8	1.8	.8	.6	

1490 NH CARD USED
*SECNO 1.650

3265 DIVIDED FLOW

1.650	3.99	1799.99	1799.57	.00	1800.51	.52	5.24	.10	1796.00
5763.0	1274.4	805.9	3682.8	193.6	97.9	782.4	279.9	116.5	1796.00
.51	6.58	8.23	4.71	.050	.050	.055	.000	1796.00	9915.78
.012152	600.	600.	575.	3	15	0	.00	626.79	10598.33

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.65 CWSEL= 1799.99

STA=	9916.	9924.	9986.	10011.	10020.	10248.	10316.	10328.	10364.	10418.	10598.
PER Q=	.3	21.8	14.0	2.3	9.8	.5	4.2	20.5	18.8	7.8	
AREA=	8.2	185.4	97.9	26.2	226.4	12.1	35.6	143.2	159.9	179.1	
VEL=	2.0	6.8	8.2	5.1	2.5	2.5	6.7	8.2	6.8	2.5	
DEPTH=	1.0	3.0	4.0	3.0	1.0	.2	3.0	4.0	3.0	1.0	

CCHV= .600 CEHV= .900
*SECNO 1.750

1.750	5.54	1805.54	1804.97	.00	1805.98	.45	5.44	.04	1804.00
4179.0	45.9	1635.4	2497.6	24.5	228.2	657.9	291.2	122.4	1804.00
.54	1.88	7.17	3.80	.065	.050	.065	.000	1800.00	9932.62
.009603	485.	490.	500.	4	11	0	.00	419.35	10351.97

FLOW DISTRIBUTION FOR SECNO= 1.75 CWSEL= 1805.54

STA=	9933.	9964.	10023.	10187.	10280.	10306.	10330.	10352.
PER Q=	1.1	39.1	18.1	23.4	11.3	6.2	.7	
AREA=	24.5	228.2	252.8	234.6	91.2	62.6	16.6	
VEL=	1.9	7.2	3.0	4.2	5.2	4.2	1.9	
DEPTH=	.8	3.9	1.5	2.5	3.5	2.5	.8	

CCHV= .600 CEHV= .900
*SECNO 1.830

1.830	4.73	1810.73	1810.63	.00	1811.44	.71	5.22	.24	1808.00
4179.0	64.8	1980.1	2134.1	18.1	220.9	555.2	300.0	126.8	1808.00
.56	3.58	8.96	3.84	.065	.050	.065	.000	1806.00	9968.10
.014468	440.	445.	450.	2	9	0	.00	434.12	10402.22

FLOW DISTRIBUTION FOR SECNO= 1.83 CWSEL= 1810.73

STA=	9968.	9975.	9984.	10039.	10190.	10255.	10353.	10359.	10390.	10402.
PER Q=	.1	1.5	47.4	24.9	2.6	16.2	2.2	5.1	.1	
AREA=	2.4	15.7	220.9	261.6	48.0	170.7	16.7	53.8	4.4	
VEL=	1.4	3.9	9.0	4.0	2.2	4.0	5.4	4.0	1.4	
DEPTH=	.4	1.7	4.0	1.7	.7	1.7	2.7	1.7	.4	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.920

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.44

1.920	5.40	1815.40	1814.97	.00	1815.95	.55	4.41	.10	1812.00
4179.0	88.2	2564.7	1526.1	28.9	352.8	558.7	309.0	131.4	1812.00
.58	3.06	7.27	2.73	.065	.050	.065	.000	1810.00	9928.01
.006986	460.	455.	450.	4	8	0	.00	439.93	10367.95

FLOW DISTRIBUTION FOR SECNO= 1.92 CWSEL= 1815.40

STA=	9928.	9935.	9945.	10015.	10025.	10050.	10100.	10230.	10265.	10300.	10340.	10368.
PER Q=	.2	1.9	61.4	1.9	4.9	9.8	10.4	2.8	2.8	3.2	.7	
AREA=	4.9	24.0	352.8	24.0	59.9	119.9	181.7	48.9	48.9	55.9	19.5	
VEL=	1.5	3.4	7.3	3.4	3.4	3.4	2.4	2.4	2.4	2.4	1.5	
DEPTH=	.7	2.4	5.0	2.4	2.4	2.4	1.4	1.4	1.4	1.4	.7	

*SECNO 2.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

****
BOX CULVERT BENEATH CAREFREE HIGHWAY (N. OF 2.00) NOT ANALYZED
DUE TO INSUFFICIENT CAPACITY FOR HIGH FLOWS. MOST FLOW IS IN
RIGHT (WEST) OVERBANK AND FLOWS OVER ROADWAY. STRUCTURES CONSIST
OF 2-10'X5.5'X90' CBC'S WITH HEAD AND WINGWALLS. SKEWED 40 DEG.
RIGHT.
****

2.000	6.01	1820.01	1820.01	.00	1820.76	.75	3.36	.18	1816.00
4179.0	175.3	1997.1	2006.6	39.0	212.1	616.6	317.2	136.1	1816.00
.60	4.50	9.41	3.25	.065	.050	.065	.000	1814.00	9965.38
.010586	390.	400.	390.	0	8	0	.00	623.67	10589.05

FLOW DISTRIBUTION FOR SECNO= 2.00 CWSEL= 1820.01

STA=	9965.	9983.	10022.	10089.	10489.	10589.
PER Q=	4.2	47.8	24.3	23.8	.0	
AREA=	39.0	212.1	203.7	411.5	1.4	
VEL=	4.5	9.4	5.0	2.4	.1	
DEPTH=	2.2	5.5	3.1	1.0	.0	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.070

3301 HV CHANGED MORE THAN HVINS

2.070	2.72	1823.72	1823.06	.00	1823.90	.18	2.79	.34	1822.00
4179.0	18.2	1050.8	3110.0	10.1	222.1	1097.4	324.5	140.6	1822.00
.62	1.80	4.73	2.83	.065	.050	.065	.000	1821.00	9957.32
.007719	415.	390.	260.	2	22	0	.00	770.59	10727.91

FLOW DISTRIBUTION FOR SECNO= 2.07 CWSEL= 1823.72

STA=	9957.	9969.	10060.	10120.	10147.	10667.	10728.
PER Q=	.4	25.1	7.1	3.2	61.8	2.3	
AREA=	10.1	222.1	103.4	46.2	895.5	52.3	
VEL=	1.8	4.7	2.9	2.9	2.9	1.8	
DEPTH=	.9	2.4	1.7	1.7	1.7	.9	

*SECNO 2.140

2.140	3.19	1827.19	1826.81	.00	1827.49	.30	3.48	.11	1824.00
4179.0	83.8	1009.8	3085.4	22.7	149.2	938.9	335.1	147.0	1824.00
.65	3.70	6.77	3.29	.065	.050	.065	.000	1824.00	9965.21
.011043	385.	380.	380.	2	8	0	.00	703.38	10668.58

FLOW DISTRIBUTION FOR SECNO= 2.14 CWSEL= 1827.19

STA=	9965.	9970.	9979.	10026.	10219.	10362.	10638.	10669.
PER Q=	.1	1.9	24.2	41.0	10.9	21.2	.7	
AREA=	2.8	19.9	149.2	422.8	169.5	328.2	18.4	
VEL=	1.7	4.0	6.8	4.1	2.7	2.7	1.7	
DEPTH=	.6	2.2	3.2	2.2	1.2	1.2	.6	

*SECNO 2.230

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.230	6.36	1832.36	1832.36	.00	1833.17	.81	4.59	.46	1828.00
4179.0	362.3	2297.2	1519.6	85.6	247.1	542.1	345.2	153.5	1828.00
.67	4.23	9.30	2.80	.065	.050	.065	.000	1826.00	9937.02
.009770	435.	440.	445.	0	14	0	.00	568.15	10505.17

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.23 CWSEL= 1832.36

STA=	9937.	9941.	9963.	9979.	10023.	10035.	10373.	10480.	10505.
PER Q=	.0	1.9	6.7	55.0	4.7	30.5	1.1	.1	
AREA=	.8	29.0	55.8	247.1	39.3	459.8	38.5	4.5	
VEL=	.7	2.8	5.0	9.3	5.0	2.8	1.1	.7	
DEPTH=	.2	1.4	3.4	5.7	3.4	1.4	.4	.2	

*SECNO 2.370

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .41

2.370	3.96	1839.96	1839.61	.00	1840.32	.37	6.89	.26	1838.00
1701.0	230.7	834.6	635.7	105.1	131.2	224.2	356.1	160.7	1838.00
.71	2.19	6.36	2.84	.065	.050	.065	.000	1836.00	9877.46
.009495	750.	715.	695.	3	11	0	.00	319.91	10197.36

FLOW DISTRIBUTION FOR SECNO= 2.37 CWSEL= 1839.96

STA=	9877.	9985.	10025.	10082.	10197.
PER Q=	13.6	49.1	22.8	14.5	
AREA=	105.1	131.2	111.5	112.8	
VEL=	2.2	6.4	3.5	2.2	
DEPTH=	1.0	3.3	2.0	1.0	

CCHV= .600 CEHV= .900
*SECNO 2.450

2.450	4.68	1844.68	1844.64	.00	1845.41	.73	4.75	.33	1842.00
1701.0	173.5	995.5	532.0	64.7	117.3	148.0	359.9	163.4	1842.00
.73	2.68	8.49	3.59	.065	.050	.065	.000	1840.00	9885.76
.013446	430.	425.	420.	2	11	0	.00	243.30	10129.06

FLOW DISTRIBUTION FOR SECNO= 2.45 CWSEL= 1844.68

STA=	9886.	9968.	9990.	10020.	10103.	10129.
PER Q=	2.1	8.1	58.5	30.6	.7	
AREA=	27.8	36.9	117.3	139.2	8.8	
VEL=	1.3	3.7	8.5	3.7	1.3	
DEPTH=	.3	1.7	3.9	1.7	.3	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.530

2.530	4.54	1850.54	1850.30	.00	1851.00	.46	5.44	.16	1848.00
1701.0	585.5	978.1	137.4	216.3	143.1	78.8	364.5	167.2	1848.00
.76	2.71	6.84	1.74	.065	.050	.065	.000	1846.00	9803.79
.008542	505.	515.	520.	2	11	0	.00	398.94	10202.74

FLOW DISTRIBUTION FOR SECNO= 2.53 CWSEL= 1850.54

STA=	9804.	9850.	9982.	10019.	10041.	10203.
PER Q=	.7	33.8	57.5	5.8	2.3	
AREA=	12.6	203.7	143.1	35.1	43.8	
VEL=	.9	2.8	6.8	2.8	.9	
DEPTH=	.3	1.5	4.0	1.5	.3	

*SECNO 2.620

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

2.620	3.46	1856.46	1856.41	.00	1857.06	.60	5.93	.13	1854.00
1701.0	441.0	910.0	350.0	129.5	118.0	81.6	368.7	171.1	1855.00
.78	3.41	7.71	4.29	.065	.050	.065	.000	1853.00	9794.15
.018665	430.	490.	600.	2	19	0	.00	295.71	10089.86

FLOW DISTRIBUTION FOR SECNO= 2.62 CWSEL= 1856.46

STA=	9794.	9915.	9985.	10030.	10048.	10078.	10090.
PER Q=	1.9	24.0	53.5	10.1	10.3	.2	
AREA=	27.6	101.9	118.0	35.2	43.7	2.7	
VEL=	1.2	4.0	7.7	4.9	4.0	1.2	
DEPTH=	.2	1.5	2.6	2.0	1.5	.2	

*SECNO 2.710

2.710	4.41	1862.41	1862.22	.00	1862.90	.49	5.78	.07	1860.00
1701.0	122.0	941.7	637.3	43.4	132.1	230.0	372.4	174.1	1860.00
.81	2.81	7.13	2.77	.065	.050	.065	.000	1858.00	9950.78
.009689	460.	450.	415.	2	11	0	.00	283.16	10233.94

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.71 CWSEL= 1862.41

STA=	9951.	9984.	10018.	10035.	10084.	10095.	10121.	10205.	10230.	10234.
PER Q=	7.2	55.4	4.0	7.8	6.2	6.1	6.1	7.2	.0	
AREA=	43.4	132.1	24.1	51.2	26.1	36.7	52.4	38.6	.9	
VEL=	2.8	7.1	2.8	2.6	4.1	2.8	2.0	3.2	.8	
DEPTH=	1.3	3.8	1.4	1.0	2.4	1.4	.6	1.6	.2	

*SECNO 2.790

3301 HV CHANGED MORE THAN HVINS

2.790	5.93	1867.93	1867.92	.00	1869.30	1.37	5.61	.79	1864.00
1701.0	204.8	1225.5	270.7	46.5	114.8	55.6	375.7	176.0	1864.00
.82	4.40	10.67	4.87	.065	.050	.065	.000	1862.00	9959.17
.015256	485.	470.	455.	3	11	0	.00	82.99	10042.16

FLOW DISTRIBUTION FOR SECNO= 2.79 CWSEL= 1867.93

STA=	9959.	9980.	9989.	10012.	10025.	10042.
PER Q=	3.3	8.7	72.0	13.3	2.6	
AREA=	20.5	26.1	114.8	39.4	16.2	
VEL=	2.8	5.7	10.7	5.7	2.7	
DEPTH=	1.0	2.9	5.0	2.9	1.0	

*SECNO 2.880

3301 HV CHANGED MORE THAN HVINS

2.880	4.35	1874.35	1873.61	.00	1874.81	.46	4.96	.54	1872.00
1701.0	27.5	1061.9	611.6	11.4	166.2	181.6	378.8	177.2	1872.00
.84	2.42	6.39	3.37	.065	.050	.065	.000	1870.00	9977.01
.008107	475.	460.	445.	4	14	0	.00	150.74	10127.75

FLOW DISTRIBUTION FOR SECNO= 2.88 CWSEL= 1874.35

STA=	9977.	9979.	9987.	10032.	10087.	10091.	10121.	10128.
PER Q=	.0	1.6	62.4	27.7	2.3	5.9	.0	
AREA=	.3	11.1	166.2	129.6	10.9	39.9	1.2	
VEL=	.6	2.5	6.4	3.6	3.6	2.5	.6	
DEPTH=	.2	1.3	3.7	2.3	2.3	1.3	.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.970

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

2.970	4.18	1880.18	1880.12	.00	1881.26	1.09	5.89	.56	1878.00
1701.0	548.0	1119.2	33.8	107.4	115.9	9.7	382.1	178.6	1878.00
.86	5.10	9.66	3.47	.065	.050	.065	.000	1876.00	9926.10
.019457	525.	490.	470.	2	11	0	.00	97.31	10023.41

FLOW DISTRIBUTION FOR SECNO= 2.97 CWSEL= 1880.18

STA=	9926.	9940.	9970.	9982.	10014.	10023.	10023.
PER Q=	3.1	20.9	8.2	65.8	2.0	.0	
AREA=	14.9	66.4	26.2	115.9	9.7	.1	
VEL=	3.5	5.4	5.4	9.7	3.5	.0	
DEPTH=	1.1	2.2	2.2	3.6	1.2	.1	

*SECNO 3.080

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.75

3.080	5.92	1886.32	1884.96	.00	1886.89	.57	5.31	.31	1883.80
1701.0	26.7	1558.7	115.6	12.8	248.2	42.2	385.3	179.7	1882.60
.89	2.09	6.28	2.74	.065	.050	.065	.000	1880.40	9977.84
.006386	485.	520.	535.	4	8	0	.00	89.87	10067.72

FLOW DISTRIBUTION FOR SECNO= 3.08 CWSEL= 1886.32

STA=	9978.	9988.	10045.	10068.
PER Q=	1.6	91.6	6.8	
AREA=	12.8	248.2	42.2	
VEL=	2.1	6.3	2.7	
DEPTH=	1.3	4.4	1.9	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 3.111

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3.111	5.48	1887.88	1887.47	.00	1888.83	.95	1.83	.12	1885.00
1701.0	493.8	872.3	334.9	101.6	89.0	64.1	386.5	180.1	1882.40
.89	4.86	9.80	5.22	.065	.050	.065	.000	1882.40	9943.56
.014140	200.	200.	200.	2	15	0	.00	88.89	10032.44

FLOW DISTRIBUTION FOR SECNO= 3.11 CWSEL= 1887.88

STA=	9944.	9958.	9966.	9976.	9990.	10009.	10032.
PER Q=	2.8	5.8	8.2	12.2	51.3	19.7	
AREA=	16.4	19.8	26.7	38.8	89.0	64.1	
VEL=	2.9	5.0	5.2	5.4	9.8	5.2	
DEPTH=	1.1	2.5	2.7	2.8	4.7	2.7	

*SECNO 3.120

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.38

3.120	5.68	1888.58	1886.13	.00	1889.03	.45	.15	.05	1882.90
1701.0	62.8	1575.4	62.8	32.3	284.1	32.3	386.9	180.2	1882.90
.90	1.95	5.54	1.95	.050	.030	.050	.000	1882.90	9963.63
.001235	50.	50.	50.	2	11	0	.00	72.73	10036.37

FLOW DISTRIBUTION FOR SECNO= 3.12 CWSEL= 1888.58

STA=	9964.	9975.	10025.	10036.
PER Q=	3.7	92.6	3.7	
AREA=	32.3	284.1	32.3	
VEL=	1.9	5.5	1.9	
DEPTH=	2.8	5.7	2.8	

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 3.130
    3.130      5.18   1888.58   1886.62       .00   1889.13       .55       .07       .03   1883.40
   1701.0      57.7    1585.6      57.7      26.9     259.4      26.9     387.3     180.3   1883.40
      .90      2.15      6.11      2.15      .050      .030      .050      .000   1883.40   9964.63
  .001696       38.       50.       59.         2        11         0       .00     70.75  10035.38

FLOW DISTRIBUTION FOR SECNO=      3.13          CWSEL=   1888.58

STA=    9965.    9975.   10025.   10035.
  PER Q=      3.4     93.2      3.4
   AREA=     26.9    259.4     26.9
    VEL=      2.1      6.1      2.1
  DEPTH=      2.6      5.2      2.6

*SECNO 3.140
    3.140      4.69   1888.59   1887.12       .00   1889.27       .68       .10       .04   1883.90
   1701.0      52.5    1595.9      52.5      22.0     234.5      22.0     387.6     180.4   1883.90
      .90      2.39      6.80      2.39      .050      .030      .050      .000   1883.90   9965.62
  .002403       50.       50.       53.         2        14         0       .00     68.76  10034.38

 DISTRIBUTION FOR SECNO=      3.14          CWSEL=   1888.59

STA=    9966.    9975.   10025.   10034.
  PER Q=      3.1     93.8      3.1
   AREA=     22.0    234.5     22.0
    VEL=      2.4      6.8      2.4
  DEPTH=      2.3      4.7      2.3

CCHV=     .300 CEHV=     .500
*SECNO 3.149

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1894.40 ELREA=      1894.40

    3.149      5.38   1889.78   1889.78       .00   1892.47      2.70       .20      1.01   1884.40
   1701.0        .0    1701.0        .0        .0     129.1        .0     387.8     180.4   1884.40
      .90       .00     13.18       .00      .000      .030      .000      .000   1884.40   9988.00
  .007511       48.       50.       52.         0         8         0       .00     24.00  10012.00
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      3.15          CWSEL=   1889.78

STA=    9988.   10012.
  PER Q=    100.0
   AREA=    129.1
    VEL=     13.2
  DEPTH=      5.4


SPECIAL CULVERT

SC  CUNO      CUNV      ENTLC     COFQ      RDLEN     RISE      SPAN      CULVLN    CHRT      SCL       ELCHU     ELCHD
    2          .013      .40      3.00       .00     10.00     12.00    150.00      8         1      1885.61   1884.42

CHART  8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
SCALE  1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 3.177

SPECIAL CULVERT OUTLET CONTROL
EGIC =   1894.228  EGOC =   1894.761  PCWSE=   1889.778  ELTRD=   1899.000


3303 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.51

SPECIAL CULVERT

    EGIC      EGOC        H4     QWEIR     QCULV       VCH     ACULV     ELTRD    WEIRLN
  1894.23   1894.76      2.29        0.     1701.     8.947     240.0   1899.00        0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1899.20 ELREA=      1899.50

          ****************************************************************
           BOX CULVERT BENEATH CLOUD ROAD AS ANALYZEED BY THE FLOOD CONTROL
           DISTRICT OF MARACOPA COUNTY.  TWO 12'X10'X155' CBC'S WITH
           HEAD AND WINGWALLS WILL BE INSTALLED.
          ****************************************************************
   3.177      7.92   1893.52       .00       .00   1894.76      1.24      2.29       .00   1895.60
  1701.0        .0    1701.0        .0        .0     190.1        .0     388.4     180.5   1895.60
     .91       .00      8.95       .00      .000      .013      .000      .000   1885.60   9987.99
 .001191      150.      150.      150.         3         0         0       .00     24.01  10013.00
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      3.18          CWSEL=   1893.52

STA=    9988.   10013.
  PER Q=    100.0
   AREA=    190.1
    VEL=      8.9
  DEPTH=      7.9

*SECNO 3.206

3301 HV CHANGED MORE THAN HVINS

     3.206      4.99   1894.59   1892.81       .00   1895.18       .60       .23       .19   1889.60
    1701.0      55.6    1589.8      55.6      24.8     249.2      24.8     389.2     180.7   1889.60
       .91      2.24      6.38      2.24      .050      .030      .050      .000   1889.60   9965.03
   .001948      140.      150.      160.         3        18         0       .00     69.94  10034.97


FLOW DISTRIBUTION FOR SECNO=      3.21          CWSEL=   1894.59

STA=    9965.    9975.   10025.   10035.
  PER Q=      3.3      93.5      3.3
   AREA=     24.8     249.2     24.8
    VEL=      2.2       6.4      2.2
  DEPTH=      2.5       5.0      2.5

CCHV=     .100 CEHV=     .300
*SECNO 3.224

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     3.224      3.51   1895.71   1895.71       .00   1896.89      1.18       .44       .17   1894.40
    1701.0      36.9    1450.4     213.7      15.1     156.8      45.4     389.8     180.9   1893.20
       .92      2.45      9.25      4.70      .065      .050      .065      .000   1892.20   9942.04
   .020210       96.       96.       96.         0        15         0       .00    100.03  10042.07


FLOW DISTRIBUTION FOR SECNO=      3.22          CWSEL=   1895.71
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9942.    9965.   10013.   10034.   10042.
  PER Q=      2.2     85.3     11.8       .8
   AREA=     15.1    156.8     40.1      5.3
    VEL=      2.5      9.3      5.0      2.4
  DEPTH=       .7      3.3      1.9       .7

*SECNO 3.244

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.58

     3.244      4.83   1897.63   1896.54       .00   1898.21       .58      1.26       .06   1892.80
    1701.0      62.5    1624.7      13.9      18.8     262.4       6.9     390.4     181.1   1895.60
       .92      3.31      6.19      2.02      .065      .050      .065      .000   1892.80   9981.20
   .008052      104.      104.      104.         2         8         0       .00     88.57  10069.78


FLOW DISTRIBUTION FOR SECNO=      3.24          CWSEL=   1897.63

STA=    9981.    9989.   10063.   10070.
  PER Q=      3.7     95.5       .8
   AREA=     18.8    262.4      6.9
    VEL=      3.3      6.2      2.0
  DEPTH=      2.4      3.5      1.0

*SECNO 3.263

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     3.263      4.73   1898.13   1898.13       .00   1899.91      1.79      1.23       .36   1894.00
    1701.0      82.3    1540.7      78.0      16.5     137.9      20.2     390.9     181.3   1895.60
       .92      4.98     11.17      3.86      .065      .050      .065      .000   1893.40   9979.00
   .021180      105.      100.       95.         0         5         0       .00     57.00  10036.00


FLOW DISTRIBUTION FOR SECNO=      3.26          CWSEL=   1898.13
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9979.	9987.	10020.	10036.
PER Q=	4.8	90.6	4.6	
AREA=	16.5	137.9	20.2	
VEL=	5.0	11.2	3.9	
DEPTH=	2.1	4.2	1.3	

*SECNO 3.300

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.70

3.300	5.81	1901.61	1900.44	.00	1902.34	.73	2.32	.11	1898.70
1701.0	33.0	1555.0	113.1	13.6	218.1	36.0	391.9	181.6	1898.40
.93	2.43	7.13	3.14	.065	.050	.065	.000	1895.80	9961.67
.007316	200.	200.	200.	3	8	0	.00	75.24	10036.91

FLOW DISTRIBUTION FOR SECNO= 3.30 CWSEL= 1901.61

STA=	9962.	9971.	10017.	10032.	10037.
PER Q=	1.9	91.4	6.4	.2	
AREA=	13.6	218.1	33.1	3.0	
VEL=	2.4	7.1	3.3	1.4	
DEPTH=	1.5	4.7	2.2	.6	

*SECNO 3.400

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.400	4.56	1908.56	1908.56	.00	1910.07	1.51	5.85	.23	1906.00
1590.0	52.4	1450.5	87.1	12.7	141.5	20.4	394.5	182.3	1906.00
.95	4.12	10.25	4.26	.070	.055	.070	.000	1904.00	9977.49
.023489	495.	495.	495.	0	15	0	.00	60.88	10038.37

FLOW DISTRIBUTION FOR SECNO= 3.40 CWSEL= 1908.56

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9977.    9980.    9988.   10024.   10024.   10036.   10038.
  PER Q=      .1      3.2     91.2       .1      5.3       .1
   AREA=      .6     12.1    141.5       .2     19.6       .6
    VEL=     1.4      4.3     10.2      6.1      4.3      1.4
  DEPTH=      .3      1.5      3.9      2.6      1.6       .3

*SECNO 3.490
    3.490     5.49  1915.49  1915.46      .00  1917.16     1.67     7.05      .05  1912.00
   1590.0     80.7   1335.0    174.3     16.1    120.3     32.7    395.7    182.7  1912.00
      .95     5.01    11.09     5.34     .070     .055     .070     .000  1910.00  9984.16
  .022300     240.     310.     320.        2       11        0      .00    52.06 10036.22


FLOW DISTRIBUTION FOR SECNO=      3.49          CWSEL=   1915.49

STA=    9984.    9988.    9993.   10019.   10030.   10031.   10036.
  PER Q=      .5      4.6     84.0     10.1       .3       .6
   AREA=     2.9     13.2    120.3     27.8      1.1      3.7
    VEL=     2.5      5.6     11.1      5.8      4.1      2.5
  DEPTH=      .7      2.5      4.6      2.5      1.5       .7

*SECNO 3.580

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.44

    3.580     5.13  1923.13  1922.20      .00  1923.98      .84     6.73      .08  1920.00
   1590.0     87.6   1446.0     56.4     25.7    189.0     17.2    397.7    183.3  1920.00
      .97     3.41     7.65     3.27     .070     .055     .070     .000  1918.00  9956.26
  .010741     435.     450.     455.        4       15        0      .00    67.54 10023.81


FLOW DISTRIBUTION FOR SECNO=      3.58          CWSEL=   1923.13

STA=    9956.    9960.    9971.   10013.   10020.   10024.
  PER Q=      .2      5.3     90.9      3.3       .2
   AREA=     2.3     23.4    189.0     15.0      2.2
    VEL=     1.5      3.6      7.7      3.5      1.5
  DEPTH=      .6      2.1      4.6      2.1       .6
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.670

3.670	3.94	1929.94	1929.68	.00	1931.27	1.32	7.15	.14	1928.00
1590.0	20.4	1554.0	15.6	6.8	166.7	5.3	400.0	184.0	1928.00
.99	2.98	9.32	2.94	.070	.055	.070	.000	1926.00	9977.84
.021468	475.	485.	495.	3	15	0	.00	57.98	10035.83

FLOW DISTRIBUTION FOR SECNO= 3.67 CWSEL= 1929.94

STA=	9978.	9985.	10030.	10036.
PER Q=	1.3	97.7	1.0	
AREA=	6.8	166.7	5.3	
VEL=	3.0	9.3	2.9	
DEPTH=	1.0	3.7	1.0	

*SECNO 3.750

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3.750	5.84	1935.84	1934.63	.00	1936.72	.88	5.41	.04	1932.00
1590.0	99.2	1442.2	48.6	27.8	183.8	14.4	401.9	184.6	1932.00
1.00	3.56	7.84	3.37	.070	.055	.070	.000	1930.00	9957.39
.009501	380.	395.	415.	3	8	0	.00	57.17	10014.56

FLOW DISTRIBUTION FOR SECNO= 3.75 CWSEL= 1935.84

STA=	9957.	9964.	9972.	10007.	10011.	10015.
PER Q=	.8	5.5	90.7	2.7	.4	
AREA=	6.4	21.5	183.8	11.1	3.3	
VEL=	1.9	4.1	7.8	3.8	1.8	
DEPTH=	.9	2.8	5.2	2.8	.9	

*SECNO 3.840

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.840	5.75	1943.75	1943.75	.00	1945.56	1.81	6.47	.28	1940.00
1590.0	158.5	1323.9	107.6	29.8	114.4	20.6	404.0	185.1	1940.00
1.01	5.32	11.58	5.23	.070	.055	.070	.000	1938.00	9971.27
.021663	490.	470.	440.	0	5	0	.00	49.32	10020.58

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELNIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.84 CWSEL= 1943.75

STA=	9971.	9979.	9987.	10010.	10015.	10021.
PER Q=	1.1	8.8	83.3	6.0	.8	
AREA=	6.5	23.3	114.4	16.1	4.5	
VEL=	2.8	6.0	11.6	5.9	2.8	
DEPTH=	.9	2.8	5.1	2.8	.9	

*SECNO 3.930

3.930	5.57	1951.57	1951.11	.00	1952.87	1.31	7.26	.05	1948.00
1590.0	83.5	1371.5	135.0	19.5	141.1	30.9	405.6	185.6	1948.00
1.02	4.28	9.72	4.36	.070	.055	.070	.000	1946.00	9978.04
.015443	400.	400.	400.	3	15	0	.00	56.40	10034.44

FLOW DISTRIBUTION FOR SECNO= 3.93 CWSEL= 1951.57

STA=	9978.	9983.	9989.	10017.	10027.	10034.
PER Q=	.5	4.7	86.3	7.7	.8	
AREA=	3.8	15.7	141.1	24.9	6.0	
VEL=	2.2	4.8	9.7	4.9	2.2	
DEPTH=	.8	2.6	5.0	2.6	.8	

*SECNO 4.030
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4.030	3.55	1963.55	1963.55	.00	1964.83	1.28	10.88	.00	1960.00
1590.0	258.0	1069.4	262.7	44.9	103.9	44.1	408.0	186.5	1960.00
1.04	5.75	10.30	5.95	.070	.055	.070	.000	1960.00	9971.00
.026836	515.	545.	570.	0	14	0	.00	77.70	10048.70

FLOW DISTRIBUTION FOR SECNO= 4.03 CWSEL= 1963.55

STA=	9971.	9982.	9997.	10026.	10041.	10049.
PER Q=	1.6	14.6	67.3	15.4	1.1	
AREA=	8.8	36.0	103.9	37.9	6.2	
VEL=	2.9	6.4	10.3	6.4	2.9	
DEPTH=	.8	2.5	3.5	2.5	.8	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.100

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.71

4.100	5.62	1969.62	1968.42	.00	1970.40	.78	5.52	.05	1964.00
1590.0	120.5	1014.1	455.4	27.9	123.9	97.4	409.9	187.1	1964.00
1.06	4.31	8.19	4.68	.070	.055	.070	.000	1964.00	9989.70
.009171	420.	380.	350.	3	11	0	.00	66.74	10056.44

FLOW DISTRIBUTION FOR SECNO= 4.10 CWSEL= 1969.62

STA=	9990.	9993.	9996.	10000.	10022.	10034.	10046.	10056.
PER Q=	.2	2.1	5.3	63.8	19.8	7.9	.9	
AREA=	2.3	9.3	16.3	123.9	56.4	32.7	8.3	
VEL=	1.6	3.5	5.1	8.2	5.6	3.8	1.8	
DEPTH=	.8	2.6	4.6	5.6	4.6	2.6	.8	

*SECNO 4.200

4.200	4.03	1976.03	1975.54	.00	1977.02	.99	6.56	.06	1974.00
1590.0	30.2	1525.1	34.7	11.0	187.3	12.6	412.8	188.0	1974.00
1.08	2.75	8.14	2.76	.070	.055	.070	.000	1972.00	9966.11
.016600	510.	540.	570.	4	14	0	.00	75.16	10041.27

FLOW DISTRIBUTION FOR SECNO= 4.20 CWSEL= 1976.03

STA=	9966.	9977.	10029.	10041.
PER Q=	1.9	95.9	2.2	
AREA=	11.0	187.3	12.6	
VEL=	2.8	8.1	2.8	
DEPTH=	1.0	3.6	1.0	

*SECNO 4.320

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4.320	4.69	1990.69	1990.69	.00	1992.33	1.64	11.68	.19	1988.00
1590.0	58.3	1469.7	61.9	13.6	138.6	14.4	415.4	188.9	1988.00
1.09	4.29	10.60	4.30	.070	.055	.070	.000	1986.00	9971.05
.023133	640.	600.	560.	0	8	0	.00	53.75	10024.80

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.32 CWSEL= 1990.69

STA=	9971.	9974.	9981.	10014.	10022.	10025.
PER Q=	.1	3.6	92.4	3.8	.1	
AREA=	.9	12.7	138.6	13.5	1.0	
VEL=	1.6	4.5	10.6	4.5	1.6	
DEPTH=	.3	1.7	4.2	1.7	.3	

*SECNO 4.410

3301 HV CHANGED MORE THAN HVINS

4.410	3.72	2001.72	2001.44	.00	2002.73	1.01	10.34	.06	1998.00
1590.0	137.2	936.5	516.3	26.2	99.6	89.7	417.4	189.6	1998.00
1.11	5.24	9.40	5.76	.070	.055	.070	.000	1998.00	9971.58
.021010	460.	470.	470.	4	15	0	.00	78.55	10050.13

FLOW DISTRIBUTION FOR SECNO= 4.41 CWSEL= 2001.72

STA=	9972.	9978.	9985.	10012.	10043.	10050.
PER Q=	.9	7.7	58.9	31.4	1.1	
AREA=	5.2	21.0	99.6	83.4	6.3	
VEL=	2.7	5.9	9.4	6.0	2.7	
DEPTH=	.9	2.7	3.7	2.7	.9	

*SECNO 4.510

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4.510	5.38	2015.38	2015.38	.00	2017.33	1.96	11.38	.28	2012.00
1590.0	60.0	1466.3	63.7	12.2	126.4	12.9	419.6	190.3	2012.00
1.12	4.92	11.60	4.95	.070	.055	.070	.000	2010.00	9986.09
.023524	545.	515.	490.	0	11	0	.00	41.20	10027.30

FLOW DISTRIBUTION FOR SECNO= 4.51 CWSEL= 2015.38

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9986.	9989.	9993.	10020.	10024.	10027.
PER Q=	.3	3.5	92.2	3.7	.3	
AREA=	2.0	10.2	126.4	10.7	2.1	
VEL=	2.4	5.4	11.6	5.5	2.4	
DEPTH=	.7	2.4	4.8	2.4	.7	

T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME: PARADFCD.DAT JJA NO. 290-018 (ENCROACHMENT RUN)
T3 REV. 6-22-92 PARADISE WASH -- 100 YEAR FLOW FLOODWAY WITH ENCROACHMENT

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0	0	0	0	1735.7	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1	0	0	0	-1	0	0	15

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 2

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .600 CEHV= .900
*SECNO 2.600

3470 ENCROACHMENT STATIONS= 9800.0 10450.0 TYPE= 1 TARGET= 650.000

2.600	11.70	1735.70	1733.85	1735.70	1736.26	.56	.00	.00	1730.00
17136.0	1741.5	6975.2	8419.3	536.5	864.5	2059.7	.0	.0	1728.00
.00	3.25	8.07	4.09	.070	.055	.070	.000	1724.00	9800.00
.004135	0.	0.	0.	0	9	0	.00	650.00	10450.00

FLOW DISTRIBUTION FOR SECNO= 2.60 CWSEL= 1735.70

STA=	9800.	9820.	9935.	9945.	10030.	10140.	10265.	10335.	10370.	10390.	10440.	10450.
PER Q=	1.0	8.1	1.0	40.7	20.9	13.1	4.9	3.7	2.9	3.5		.1
AREA=	64.0	425.5	47.0	864.5	737.0	587.5	259.0	164.5	114.0	185.0		12.7
VEL=	2.7	3.3	3.8	8.1	4.9	3.8	3.3	3.8	4.4	3.3		1.5
DEPTH=	3.2	3.7	4.7	10.2	6.7	4.7	3.7	4.7	5.7	3.7		1.3

*SECNO .040

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

3470 ENCROACHMENT STATIONS= 9705.0 10250.0 TYPE= 1 TARGET= 545.000

.040	11.06	1737.06	1733.54	1737.04	1737.18	.11	.65	.27	1734.00
5763.0	1401.7	2825.5	1535.8	800.3	845.6	844.8	17.8	3.6	1730.00
.03	1.75	3.34	1.82	.070	.055	.070	.000	1726.00	9705.00
.001017	140.	205.	350.	2	18	0	.00	545.00	10250.00

FLOW DISTRIBUTION FOR SECNO= .04 CWSEL= 1737.06

STA=	9705.	9725.	9765.	9850.	9915.	9922.	10032.	10090.	10169.	10250.
PER Q=	.1	1.6	10.3	11.4	.9	49.0	13.7	9.6	3.3	
AREA=	12.4	82.6	345.6	329.3	30.3	845.6	350.7	321.7	172.4	
VEL=	.5	1.1	1.7	2.0	1.7	3.3	2.3	1.7	1.1	
DEPTH=	.6	2.1	4.1	5.1	4.1	7.7	6.1	4.1	2.1	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .130

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .29

3470 ENCROACHMENT STATIONS= 9960.5 10220.0 TYPE= 1 TARGET= 259.500

.130	6.01	1738.01	1737.41	1737.91	1738.91	.90	1.02	.72	1734.00
5763.0	154.6	3460.8	2147.7	37.3	379.1	470.4	34.4	7.6	1734.00
.04	4.14	9.13	4.57	.070	.055	.070	.000	1732.00	9960.50
.011880	425.	390.	465.	2	8	0	.00	259.50	10220.00

FLOW DISTRIBUTION FOR SECNO= .13 CWSEL= 1738.01

STA=	9961.	9969.	9978.	10048.	10172.	10220.
PER Q=	.4	2.3	60.1	31.3	6.0	
AREA=	9.7	27.7	379.1	374.3	96.1	
VEL=	2.4	4.7	9.1	4.8	3.6	
DEPTH=	1.1	3.0	5.5	3.0	2.0	

*SECNO .170

3470 ENCROACHMENT STATIONS= 9963.2 10150.0 TYPE= 1 TARGET= 186.800

.170	8.18	1740.18	1738.48	1739.30	1740.91	.73	1.90	.10	1736.00
5763.0	35.9	5077.7	649.4	13.4	703.7	187.4	38.9	8.7	1736.00
.05	2.69	7.22	3.46	.070	.055	.070	.000	1732.00	9963.20
.006566	275.	225.	200.	3	8	0	.00	186.80	10150.00

FLOW DISTRIBUTION FOR SECNO= .17 CWSEL= 1740.18

STA=	9963.	9967.	10084.	10128.	10150.
PER Q=	.6	88.1	9.1	2.2	
AREA=	13.4	703.7	140.6	46.8	
VEL=	2.7	7.2	3.7	2.7	
DEPTH=	3.3	6.0	3.2	2.2	

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .280

3470 ENCROACHMENT STATIONS=     9814.0   10085.0  TYPE=      1  TARGET=      271.000
      .280      6.40   1744.40   1743.68   1743.70   1745.11       .71      4.18       .02   1740.00
    5763.0    3038.5    2240.5     484.0     583.9     255.8     119.9      49.2      11.2   1742.00
       .07      5.20      8.76      4.04      .070      .055      .070      .000   1738.00   9814.00
   .011954      550.      470.      380.         2        18         0       .00    271.00  10085.00


FLOW DISTRIBUTION FOR SECNO=       .28          CWSEL=   1744.40

STA=    9814.    9985.   10035.   10085.
  PER Q=     52.7     38.9      8.4
   AREA=    583.9    255.8    119.9
    VEL=      5.2      8.8      4.0
  DEPTH=      3.4      5.2      2.4

*SECNO  .340

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.54


 ENCROACHMENT STATIONS=     9905.0   10327.0  TYPE=      1  TARGET=      422.000
      .340      4.68   1748.68   1746.99   1748.28   1748.94       .26      3.56       .27   1744.00
    5763.0    1068.5    2102.8    2591.7     278.4     426.3     785.4      62.3      14.9   1746.00
       .11      3.84      4.93      3.30      .070      .055      .070      .000   1744.00   9905.00
   .005055      560.      480.      370.         2        14         0       .00    422.00  10327.00


FLOW DISTRIBUTION FOR SECNO=       .34          CWSEL=   1748.68

STA=    9905.    9970.   10073.   10189.   10286.   10294.   10308.   10324.   10327.
  PER Q=     18.5     36.5     15.7     22.3      2.7      3.3      1.0       .0
   AREA=    278.4    426.3    309.9    357.0     37.3     52.8     26.9      1.6
    VEL=      3.8      4.9      2.9      3.6      4.2      3.6      2.1       .9
  DEPTH=      4.3      4.1      2.7      3.7      4.7      3.7      1.7       .6

*SECNO  .440

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .70
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9900.0   10166.0  TYPE=      1  TARGET=      266.000
      .440      6.10   1752.10   1750.78   1751.49   1752.64       .54      3.45       .25   1748.00
    5763.0    1812.4    1376.4    2574.2     352.0     182.3     481.2      76.5      18.8   1750.00
      .13      5.15      7.55      5.35      .070      .055      .070      .000   1746.00   9900.00
   .010395      480.      490.      500.         2         8         0       .00    266.00  10166.00


FLOW DISTRIBUTION FOR SECNO=       .44          CWSEL=   1752.10

STA=    9900.    9992.   10032.   10044.   10106.   10139.   10140.   10150.   10159.   10166.
  PER Q=     31.4     23.9      1.6     15.2     18.9       .9      5.3      2.4       .5
   AREA=    352.0    182.3     25.8    190.4    169.7      6.8     48.5     29.8     10.2
    VEL=      5.1      7.6      3.6      4.6      6.4      7.2      6.3      4.5      2.6
  DEPTH=      3.8      4.6      2.1      3.1      5.1      6.1      5.1      3.1      1.5

*SECNO  .530

3470 ENCROACHMENT STATIONS=     9880.0   10108.0  TYPE=      1  TARGET=      228.000
      .530      6.59   1756.59   1755.31   1755.75   1757.26       .67      4.50       .12   1752.00
    5763.0    1865.3    2685.3    1212.3     383.2     326.7     279.7      87.8      21.6   1752.00
      .15      4.87      8.22      4.33      .070      .055      .070      .000   1750.00   9880.00
   .008154      475.      495.      500.         3        15         0       .00    228.00  10108.00


FLOW DISTRIBUTION FOR SECNO=       .53          CWSEL=   1756.59

STA=    9880.    9971.   10023.   10094.   10108.
  PER Q=     32.4     46.6     19.9      1.1
   AREA=    383.2    326.7    255.5     24.3
    VEL=      4.9      8.2      4.5      2.7
  DEPTH=      4.2      6.2      3.6      1.8

*SECNO  .620

3470 ENCROACHMENT STATIONS=     9900.0   10170.0  TYPE=      1  TARGET=      270.000
      .620      6.28   1760.28   1759.17   1759.57   1760.93       .65      3.66       .01   1756.00
    5763.0     683.9    2883.1    2195.9     180.4     362.3     470.5      98.0      24.1   1756.00
      .17      3.79      7.96      4.67      .070      .055      .070      .000   1754.00   9900.00
   .008251      420.      450.      460.         2        15         0       .00    270.00  10170.00
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ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .62 CWSEL= 1760.28

STA=	9900.	9934.	9965.	9966.	10027.	10045.	10055.	10068.	10082.	10170.
PER Q=	4.4	7.5	.0	50.0	8.9	7.5	6.8	3.4	11.5	
AREA=	78.5	101.6	.3	362.3	90.2	65.7	67.4	46.3	200.8	
VEL=	3.2	4.2	5.1	8.0	5.7	6.6	5.8	4.3	3.3	
DEPTH=	2.3	3.3	4.3	5.9	5.1	6.3	5.3	3.3	2.3	

*SECNO .720

3470 ENCROACHMENT STATIONS= 9800.0 10062.0 TYPE= 1 TARGET= 262.000

.720	5.98	1763.98	1762.67	1762.97	1764.52	.54	3.52	.06	1760.00
5763.0	3593.6	1674.6	494.8	729.3	211.2	123.5	107.8	26.6	1760.00
.19	4.93	7.93	4.01	.070	.055	.070	.000	1758.00	9800.00
.008789	400.	420.	425.	2	19	0	.00	262.00	10062.00

FLOW DISTRIBUTION FOR SECNO= .72 CWSEL= 1763.98

STA=	9800.	9886.	9972.	9983.	10021.	10062.
PER Q=	28.9	29.5	3.9	29.1	8.6	
AREA=	343.8	340.0	45.4	211.2	123.5	
VEL=	4.8	5.0	5.0	7.9	4.0	
DEPTH=	4.0	4.0	4.0	5.6	3.0	

*SECNO .800

3470 ENCROACHMENT STATIONS= 9870.0 10150.0 TYPE= 1 TARGET= 280.000

.800	5.67	1767.67	1766.72	1766.71	1768.28	.61	3.70	.06	1764.00
5763.0	1621.3	1757.5	2384.2	347.4	205.5	463.2	116.9	29.0	1764.00
.21	4.67	8.55	5.15	.070	.055	.070	.000	1762.00	9870.00
.011029	420.	350.	330.	3	19	0	.00	280.00	10150.00

FLOW DISTRIBUTION FOR SECNO= .80 CWSEL= 1767.67

STA=	9870.	9982.	10021.	10068.	10105.	10150.
PER Q=	28.1	30.5	15.8	12.5	13.1	
AREA=	347.4	205.5	172.2	135.5	155.5	
VEL=	4.7	8.6	5.3	5.3	4.8	
DEPTH=	3.1	5.3	3.7	3.7	3.4	

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .890

3470 ENCROACHMENT STATIONS=     9930.0   10100.0  TYPE=      1  TARGET=      170.000
      .890      8.20   1772.20   1770.65   1771.64   1773.04       .83      4.56       .20   1768.00
    5763.0     691.3    4694.7     377.0     171.2     595.8      89.7     127.7      31.6   1768.00
      .23      4.04      7.88      4.20      .070      .055      .070      .000   1764.00   9930.00
   .007674     520.      500.      480.         2        11         0       .00    170.00  10100.00


FLOW DISTRIBUTION FOR SECNO=       .89          CWSEL=   1772.20

STA=    9930.    9981.   10077.   10100.
  PER Q=     12.0     81.5      6.5
   AREA=    171.2    595.8     89.7
    VEL=      4.0      7.9      4.2
  DEPTH=      3.4      6.2      3.9

*SECNO  .950

3470 ENCROACHMENT STATIONS=     9870.0   10120.0  TYPE=      1  TARGET=      250.000
      .950      8.32   1774.32   1772.97   1773.44   1775.00       .68      1.88       .09   1770.00
    5763.0     771.7    4268.4     722.9     268.5     574.0     187.7     133.6      32.9   1770.00
      .24      2.87      7.44      3.85      .070      .055      .070      .000   1766.00   9870.00
   .006100     250.      275.      310.         2        15         0       .00    250.00  10120.00


FLOW DISTRIBUTION FOR SECNO=       .95          CWSEL=   1774.32

STA=    9870.    9982.    9984.   10070.   10120.
  PER Q=     13.0       .4     74.1     12.5
   AREA=    261.2      7.2    574.0    187.7
    VEL=      2.9      3.0      7.4      3.9
  DEPTH=      2.3      3.3      6.7      3.8

*SECNO 1.040

3470 ENCROACHMENT STATIONS=     9750.0   10058.0  TYPE=      1  TARGET=      308.000
     1.040      6.91   1776.91   1774.37   1776.25   1777.17       .26      1.91       .26   1772.00
    5763.0    4037.8    1530.2     195.1    1156.5     284.3      75.8     146.6      35.8   1772.00
      .27      3.49      5.38      2.57      .070      .055      .070      .000   1770.00   9750.00
   .003322     500.      400.      300.         2        11         0       .00    308.00  10058.00
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.04 CWSEL= 1776.91

STA=	9750.	9783.	9804.	9831.	9840.	9912.	9931.	9986.	10029.	10042.	10054.	10058.
PER Q=	9.1	6.2	8.3	2.5	21.7	5.8	16.5	26.6	2.6	.7	.1	
AREA=	163.4	101.4	135.3	40.0	353.2	94.9	268.3	284.3	49.5	22.7	3.6	
VEL=	3.2	3.5	3.5	3.5	3.5	3.5	3.5	5.4	3.0	1.9	1.0	
DEPTH=	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	3.9	1.9	.8	

*SECNO 1.120

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .44

3470 ENCROACHMENT STATIONS= 9640.0 10031.0 TYPE= 1 TARGET= 391.000

1.120	7.20	1779.20	1779.08	1778.39	1780.57	1.37	2.40	1.00	1776.00
5763.0	1362.1	4334.6	66.4	302.1	412.6	15.3	155.8	38.1	1776.00
.28	4.51	10.51	4.33	.070	.055	.070	.000	1772.00	9640.00
017142	320.	420.	470.	2	8	0	.00	264.89	10031.00

FLOW DISTRIBUTION FOR SECNO= 1.12 CWSEL= 1779.20

STA=	9640.	9660.	9661.	9701.	9702.	9739.	9896.	9943.	10023.	10030.	10031.
PER Q=	6.1	.4	7.1	.0	.8	.6	8.6	75.2	1.1	.0	
AREA=	64.8	3.6	87.6	.5	22.7	18.0	105.0	412.6	14.0	1.3	
VEL=	5.5	6.0	4.7	3.1	2.0	2.0	4.7	10.5	4.6	2.0	
DEPTH=	3.2	3.2	2.2	1.2	.6	.1	2.2	5.2	2.2	1.0	

*SECNO 1.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.16

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9750.0 10131.0 TYPE= 1 TARGET= 381.000

1.210	7.88	1783.88	1782.03	1782.91	1784.16	.28	2.95	.65	1780.00
5763.0	1961.9	2233.7	1567.5	707.3	398.6	434.0	166.9	41.2	1780.00
.31	2.77	5.60	3.61	.070	.055	.070	.000	1776.00	9750.00
.003667	400.	440.	450.	2	9	0	.00	381.00	10131.00

FLOW DISTRIBUTION FOR SECNO= 1.21 CWSEL= 1783.88

STA=	9750.	9802.	9836.	9877.	9974.	10035.	10074.	10096.	10107.	10131.
PER Q=	9.4	7.3	5.4	12.0	38.8	11.3	9.6	3.3	3.0	
AREA=	186.3	132.6	119.3	269.1	398.6	180.1	132.3	51.8	69.9	
VEL=	2.9	3.2	2.6	2.6	5.6	3.6	4.2	3.7	2.5	
DEPTH=	3.6	3.9	2.9	2.8	6.5	4.7	5.9	4.9	2.9	

*SECNO 1.270

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

3470 ENCROACHMENT STATIONS= 9960.0 10150.0 TYPE= 1 TARGET= 190.000

1.270	7.70	1785.70	1784.61	1785.12	1786.64	.94	1.89	.59	1782.00
5763.0	89.4	4613.6	1060.0	24.1	546.2	267.0	176.5	43.5	1782.00
.32	3.71	8.45	3.97	.070	.055	.070	.000	1778.00	9960.00
.008726	390.	350.	320.	3	15	0	.00	190.00	10150.00

FLOW DISTRIBUTION FOR SECNO= 1.27 CWSEL= 1785.70

STA=	9960.	9961.	9969.	9969.	10058.	10059.	10150.
PER Q=	.0	1.5	.0	80.1	.3	18.1	
AREA=	1.1	22.7	.3	546.2	4.1	262.9	
VEL=	2.0	3.8	4.7	8.4	4.7	4.0	
DEPTH=	1.7	2.7	3.7	6.2	3.7	2.9	

*SECNO 1.370

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9866.0 10069.0 TYPE= 1 TARGET= 203.000

1.370	7.78	1789.78	1787.25	1789.38	1790.22	.44	3.28	.30	1784.00
5763.0	2475.9	1218.3	2068.8	516.2	174.0	443.5	187.7	45.7	1784.00
.35	4.80	7.00	4.66	.070	.055	.070	.000	1782.00	9866.00
.005162	570.	500.	430.	2	19	0	.00	203.00	10069.00

FLOW DISTRIBUTION FOR SECNO= 1.37 CWSEL= 1789.78

STA=	9866.	9886.	9899.	9958.	9959.	9984.	10011.	10046.	10055.	10069.
PER Q=	7.2	6.3	28.9	.5	21.1	13.2	17.2	3.5	2.0	
AREA=	96.4	74.3	339.5	6.0	174.0	154.6	202.2	47.3	39.5	
VEL=	4.3	4.9	4.9	4.9	7.0	4.9	4.9	4.3	2.9	
DEPTH=	4.8	5.8	5.8	5.8	7.0	5.8	5.8	4.8	2.9	

*SECNO 1.460

3470 ENCROACHMENT STATIONS= 9885.0 10179.0 TYPE= 1 TARGET= 294.000

1.460	6.56	1792.56	1791.28	1791.96	1793.08	.53	2.78	.08	1788.00
5763.0	860.8	2961.3	1940.9	242.5	409.1	500.0	200.6	48.5	1788.00
.37	3.55	7.24	3.88	.070	.055	.070	.000	1786.00	9885.00
006297	260.	500.	670.	3	20	0	.00	294.00	10179.00

FLOW DISTRIBUTION FOR SECNO= 1.46 CWSEL= 1792.56

STA=	9885.	9920.	9973.	10039.	10039.	10179.
PER Q=	2.1	12.8	51.4	.2	33.5	
AREA=	54.3	188.2	409.1	2.8	497.2	
VEL=	2.3	3.9	7.2	4.6	3.9	
DEPTH=	1.5	3.6	6.2	4.6	3.6	

1490 NH CARD USED
*SECNO 1.540

3470 ENCROACHMENT STATIONS= 9972.0 10228.0 TYPE= 1 TARGET= 256.000

1.540	5.07	1795.07	1793.69	1794.76	1795.61	.54	2.52	.01	1792.00
5763.0	78.8	1017.9	4666.4	29.0	157.3	806.5	210.4	51.0	1792.00
.39	2.71	6.47	5.79	.070	.050	.051	.000	1790.00	9972.00
.006294	400.	400.	400.	2	11	0	.00	256.00	10228.00

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      1.54          CWSEL=   1795.07

STA=    9972.    9986.   10020.   10030.   10124.   10161.   10182.   10228.
  PER Q=      1.4     17.7      2.5     40.3     22.1      8.9      7.1
   AREA=     29.0    157.3     29.0    386.3    183.3     85.4    122.5
    VEL=      2.7      6.5      5.0      6.0      7.0      6.0      3.4
  DEPTH=      2.1      4.6      3.1      4.1      5.1      4.1      2.6

1490 NH CARD USED
*SECNO 1.650

3470 ENCROACHMENT STATIONS=     9915.0   10418.0  TYPE=      1  TARGET=      503.000
     1.650      4.09   1800.09   1799.65   1799.99   1800.71       .62      5.02       .08   1796.00
    5763.0    1372.8     854.7    3535.5     201.0     100.5     645.6     223.4      56.1   1796.00
       .42      6.83      8.51      5.48      .050      .050      .054      .000   1796.00   9915.36
   .012540      600.      600.      575.         4        16         0       .00    502.64  10418.00


FLOW DISTRIBUTION FOR SECNO=      1.65          CWSEL=   1800.09

STA=    9915.    9924.    9986.   10011.   10020.   10250.   10304.   10316.   10328.   10364.   10418.   10418.
  PER Q=      .3     23.5     14.8      2.5     11.8       .0       .6      4.5     21.7     20.2       .0
   AREA=      9.1    191.9    100.5     27.1    250.4      4.6     13.3     36.8    147.0    165.5       .8
    VEL=      2.2      7.1      8.5      5.3      2.7       .5      2.7      7.0      8.5      7.1      1.2
  DEPTH=      1.0      3.1      4.1      3.1      1.1       .1      1.1      3.1      4.1      3.1      2.1

CCHV=     .600 CEHV=     .900
*SECNO 1.750

3470 ENCROACHMENT STATIONS=     9940.0   10306.0  TYPE=      1  TARGET=      366.000
     1.750      5.71   1805.71   1805.07   1805.54   1806.16       .45      5.35       .10   1804.00
    4179.0      62.9    1696.5    2419.7      27.4     238.3     628.9     233.9      61.0   1804.00
       .45      2.30      7.12      3.85      .065      .050      .065      .000   1800.00   9940.00
   .008941      485.      490.      500.         4        11         0       .00    366.00  10306.00


FLOW DISTRIBUTION FOR SECNO=      1.75          CWSEL=   1805.71

STA=    9940.    9964.   10023.   10187.   10280.   10306.   10306.
  PER Q=      1.5     40.6     20.8     25.2     11.9       .0
   AREA=     27.4    238.3    281.3    250.7     95.6      1.3
    VEL=      2.3      7.1      3.1      4.2      5.2      1.0
  DEPTH=      1.1      4.1      1.7      2.7      3.7      3.7
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .600 CEHV=     .900
*SECNO 1.830

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9968.0   10190.0  TYPE=      1  TARGET=      222.000
     1.830      5.09   1811.09   1811.07   1810.73   1812.26      1.17      5.45       .65   1808.00
    4179.0     103.3    2514.8    1560.8      23.7     240.5     315.2     241.4      64.1   1808.00
       .46      4.37     10.46      4.95      .065      .050      .065      .000   1806.00   9968.00
   .017587      440.      445.      450.         2        15         0       .00    222.00  10190.00


FLOW DISTRIBUTION FOR SECNO=      1.83          CWSEL=   1811.09

STA=    9968.    9975.    9984.   10039.   10190.   10190.
  PER Q=       .3      2.2     60.2     37.3       .0
   AREA=      4.7     18.9    240.5    314.9       .4
    VEL=      2.3      4.9     10.5      5.0      1.3
  DEPTH=       .7      2.1      4.3      2.1      1.1

*SECNO 1.920

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.72


3470 ENCROACHMENT STATIONS=     9928.0   10100.0  TYPE=      1  TARGET=      172.000
     1.920      6.20   1816.20   1814.93   1815.40   1816.87       .67      4.31       .30   1812.00
    4179.0     142.6    3018.7    1017.6      42.4     408.7     271.6     248.2      66.1   1812.00
       .48      3.36     7.39      3.75      .065      .050      .065      .000   1810.00   9928.00
   .005929      460.      455.      450.         3         8         0       .00    172.00  10100.00


FLOW DISTRIBUTION FOR SECNO=      1.92          CWSEL=   1816.20

STA=    9928.    9935.    9945.   10015.   10025.   10050.   10100.
  PER Q=       .5      2.9     72.2      2.9      7.3     14.2
   AREA=     10.5     32.0    408.7     32.0     79.9    159.8
    VEL=      2.1      3.8      7.4      3.8      3.8      3.7
  DEPTH=      1.5      3.2      5.8      3.2      3.2      3.2
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9965.7 10180.0 TYPE= 1 TARGET= 214.330

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*****************************************************************
 BOX CULVERT BENEATH CAREFREE HIGHWAY (N. OF 2.00) NOT ANALYZED
 DUE TO INSUFFICIENT CAPACITY FOR HIGH FLOWS.  MOST FLOW IS IN
 RIGHT (WEST) OVERBANK AND FLOWS OVER ROADWAY.  STRUCTURES CONSIST
 OF 2-10'X5.5'X90' CBC'S WITH HEAD AND WINGWALLS. SKEWED 40 DEG.
 RIGHT.
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2.000	5.86	1819.86	1819.86	1820.01	1821.07	1.21	3.56	.49	1816.00
4179.0	191.0	2281.9	1706.1	36.3	206.2	344.7	254.1	67.8	1816.00
.49	5.26	11.07	4.95	.065	.050	.065	.000	1814.00	9966.49
.015201	390.	400.	390.	0	12	0	.00	213.51	10180.00

FLOW DISTRIBUTION FOR SECNO= 2.00 CWSEL= 1819.86

STA=	9966.	9973.	9975.	9981.	9983.	10022.	10026.	10089.	10094.	10180.
PER Q=	.4	.3	2.3	1.5	54.6	2.1	24.5	1.1	13.1
AREA=	6.2	3.2	17.7	9.2	206.2	12.9	180.6	10.6	140.6
VEL=	2.6	4.3	5.5	6.9	11.1	6.9	5.7	4.3	3.9
DEPTH=	.9	1.9	2.9	3.9	5.3	3.9	2.9	1.9	1.6

*SECNO 2.070

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9956.8 10270.0 TYPE= 1 TARGET= 313.200

2.070	3.71	1824.71	1823.74	1823.72	1825.09	.38	3.52	.50	1822.00
4179.0	63.6	1879.1	2236.2	22.2	312.3	569.7	259.5	69.7	1822.00
.51	2.87	6.02	3.93	.065	.050	.065	.000	1821.00	9956.80
.007923	415.	390.	260.	3	14	0	.00	313.20	10270.00

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      2.07          CWSEL=   1824.71

STA=    9957.    9969.   10060.   10120.   10147.   10270.
  PER Q=      1.5     45.0     15.4      6.9     31.2
   AREA=     22.2    312.3    163.0     72.8    334.0
    VEL=      2.9      6.0      4.0      4.0      3.9
  DEPTH=      1.8      3.4      2.7      2.7      2.7

*SECNO 2.140

3470 ENCROACHMENT STATIONS=     9965.2   10219.0  TYPE=      1  TARGET=      253.800
     2.140      3.99   1827.99   1827.06   1827.19   1828.48       .49      3.29       .10   1824.00
    4179.0     140.1    1362.4    2676.5      33.8     187.0     578.9     266.9      72.1   1824.00
       .53      4.14      7.28      4.62      .065      .050      .065      .000   1824.00   9965.20
   .009471      385.      380.      380.         2        15         0       .00    253.80  10219.00


FLOW DISTRIBUTION FOR SECNO=      2.14          CWSEL=   1827.99

STA=    9965.    9970.    9979.   10026.   10219.
  PER Q=       .4      3.0     32.6     64.0
   AREA=      6.6     27.2    187.0    578.8
    VEL=      2.5      4.6      7.3      4.6
  DEPTH=      1.4      3.0      4.0      3.0

*SECNO 2.230

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9937.0   10150.0  TYPE=      1  TARGET=      213.000
     2.230      6.48   1832.48   1832.26   1832.36   1833.56      1.08      4.55       .53   1828.00
    4179.0     420.8    2551.4    1206.7      90.8     252.4     287.4     274.2      74.5   1828.00
       .55      4.64     10.11      4.20      .065      .050      .065      .000   1826.00   9937.00
   .011227      435.      440.      445.         2        11         0       .00    213.00  10150.00


FLOW DISTRIBUTION FOR SECNO=      2.23          CWSEL=   1832.48

STA=    9937.    9941.    9963.    9979.   10023.   10035.   10150.
  PER Q=       .0      2.4      7.7     61.1      5.4     23.5
   AREA=      1.4     31.6     57.8    252.4     40.7    246.7
    VEL=      1.1      3.1      5.5     10.1      5.5      4.0
  DEPTH=       .3      1.5      3.5      5.8      3.5      2.1
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.530

3470 ENCROACHMENT STATIONS= 9940.0 10041.0 TYPE= 1 TARGET= 101.000

2.530	4.86	1850.86	1850.16	1850.54	1851.50	.64	5.72	.13	1848.00
1701.0	421.6	1144.5	135.0	107.8	154.5	42.0	288.7	79.5	1848.00
.63	3.91	7.41	3.21	.065	.050	.065	.000	1846.00	9940.00
.009054	505.	515.	520.	4	15	0	.00	101.00	10041.00

FLOW DISTRIBUTION FOR SECNO= 2.53 CWSEL= 1850.86

STA=	9940.	9982.	10019.	10041.
PER Q=	24.8	67.3	7.9	
AREA=	107.8	154.5	42.0	
VEL=	3.9	7.4	3.2	
DEPTH=	2.5	4.3	1.9	

*SECNO 2.620

3470 ENCROACHMENT STATIONS= 9950.0 10048.0 TYPE= 1 TARGET= 98.000

2.620	3.80	1856.80	1856.42	1856.46	1857.60	.80	5.96	.14	1854.00
1701.0	413.2	1088.5	199.4	80.8	133.9	41.6	291.8	80.6	1855.00
.65	5.11	8.13	4.80	.065	.050	.065	.000	1853.00	9950.00
.017516	430.	490.	600.	2	19	0	.00	98.00	10048.00

FLOW DISTRIBUTION FOR SECNO= 2.62 CWSEL= 1856.80

STA=	9950.	9985.	10030.	10048.
PER Q=	24.3	64.0	11.7	
AREA=	80.8	133.9	41.6	
VEL=	5.1	8.1	4.8	
DEPTH=	2.3	3.0	2.3	

*SECNO 2.710

3470 ENCROACHMENT STATIONS= 9950.9 10035.0 TYPE= 1 TARGET= 84.100

2.710	5.05	1863.05	1862.63	1862.41	1863.98	.93	6.26	.12	1860.00
1701.0	248.0	1316.4	136.6	64.2	153.9	34.9	294.4	81.5	1860.00
.66	3.86	8.56	3.92	.065	.050	.065	.000	1858.00	9950.90
.011389	460.	450.	415.	4	14	0	.00	84.10	10035.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.71 CWSEL= 1863.05

STA=	9951.	9953.	9984.	10018.	10035.
PER Q=	.2	14.4	77.4	8.0	
AREA=	2.1	62.1	153.9	34.8	
VEL=	1.9	3.9	8.6	3.9	
DEPTH=	.9	2.0	4.5	2.0	

*SECNO 2.790

3470 ENCROACHMENT STATIONS= 9958.4 10042.2 TYPE= 1 TARGET= 83.800

2.790	6.30	1868.30	1867.93	1867.93	1869.35	1.05	5.26	.11	1864.00
1701.0	233.8	1169.7	297.5	57.8	123.2	66.7	297.1	82.5	1864.00
.68	4.04	9.50	4.46	.065	.050	.065	.000	1862.00	9958.44
.010995	485.	470.	455.	3	11	0	.00	83.80	10042.24

FLOW DISTRIBUTION FOR SECNO= 2.79 CWSEL= 1868.30

STA=	9958.	9980.	9989.	10012.	10025.	10042.
PER Q=	4.7	9.0	68.8	13.7	3.7	
AREA=	28.5	29.3	123.2	44.3	22.3	
VEL=	2.8	5.2	9.5	5.3	2.8	
DEPTH=	1.3	3.3	5.4	3.3	1.3	

*SECNO 2.880

3470 ENCROACHMENT STATIONS= 9977.2 10038.0 TYPE= 1 TARGET= 60.800

2.880	4.44	1874.44	1874.13	1874.35	1875.72	1.28	6.16	.20	1872.00
1701.0	44.3	1588.7	68.0	12.3	170.3	15.7	299.5	83.2	1872.00
.69	3.61	9.33	4.33	.065	.050	.065	.000	1870.00	9977.20
.016723	475.	460.	445.	3	14	0	.00	60.80	10038.00

FLOW DISTRIBUTION FOR SECNO= 2.88 CWSEL= 1874.44

STA=	9977.	9979.	9987.	10032.	10038.
PER Q=	.0	2.6	93.4	4.0	
AREA=	.4	11.8	170.3	15.7	
VEL=	1.2	3.7	9.3	4.3	
DEPTH=	.3	1.4	3.8	2.4	

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.970

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

3470 ENCROACHMENT STATIONS= 9927.0 10022.0 TYPE= 1 TARGET= 95.000

2.970	5.05	1881.05	1880.11	1880.18	1881.62	.56	5.47	.43	1878.00
1701.0	634.8	1018.2	48.0	155.7	144.0	16.1	302.4	84.1	1878.00
.72	4.08	7.07	2.98	.065	.050	.065	.000	1876.00	9927.00
.007803	525.	490.	470.	3	11	0	.00	95.00	10022.00

FLOW DISTRIBUTION FOR SECNO= 2.97 CWSEL= 1881.05

STA=	9927.	9940.	9970.	9982.	10014.	10022.
PER Q=	4.9	23.2	9.2	59.9	2.8	
AREA=	26.0	93.0	36.7	144.0	16.1	
VEL=	3.2	4.2	4.2	7.1	3.0	
DEPTH=	2.0	3.1	3.1	4.5	2.1	

NO 3.080

3470 ENCROACHMENT STATIONS= 9977.9 10062.0 TYPE= 1 TARGET= 84.100

3.080	5.32	1885.72	1884.95	1886.32	1886.52	.80	4.69	.22	1883.80
1701.0	16.9	1585.6	98.5	7.4	214.2	29.4	305.7	85.2	1882.60
.74	2.27	7.40	3.35	.065	.050	.065	.000	1880.40	9980.25
.010803	485.	520.	535.	3	11	0	.00	81.75	10062.00

FLOW DISTRIBUTION FOR SECNO= 3.08 CWSEL= 1885.72

STA=	9980.	9988.	10045.	10062.
PER Q=	1.0	93.2	5.8	
AREA=	7.4	214.2	29.4	
VEL=	2.3	7.4	3.3	
DEPTH=	1.0	3.8	1.7	

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
           QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME    VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE   XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .100 CEHV=     .300
*SECNO 3.111

3470 ENCROACHMENT STATIONS=     9966.0   10033.0  TYPE=      1  TARGET=      67.000
     3.111      5.62   1888.02   1887.64   1887.88   1889.17      1.14      2.54       .10   1885.00
    1701.0     371.0     955.0     375.0      69.2      92.0      67.8     306.8      85.5   1882.40
       .74      5.36     10.38      5.53      .065      .050      .065      .000   1882.40   9966.00
   .015200      200.      200.      200.         2         6         0       .00     67.00  10033.00


FLOW DISTRIBUTION FOR SECNO=      3.11          CWSEL=   1888.02

STA=    9966.    9976.    9990.   10009.   10033.
  PER Q=      7.9     13.9     56.1     22.0
   AREA=     28.3     41.0     92.0     67.8
    VEL=      4.8      5.8     10.4      5.5
  DEPTH=      2.8      2.9      4.8      2.8

*SECNO 3.120

3301 HV CHANGED MORE THAN HVINS

 *** WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.96


3470 ENCROACHMENT STATIONS=     9964.0   10036.0  TYPE=      1  TARGET=      72.000
     3.120      6.08   1888.98   1886.12   1888.58   1889.37       .38       .12       .08   1882.90
    1701.0      68.2   1564.6      68.2      36.7     304.2      36.7     307.2      85.6   1882.90
       .75      1.86      5.14      1.86      .050      .030      .050      .000   1882.90   9964.00
   .000970       50.       50.       50.         2        11         0       .00     72.00  10036.00


FLOW DISTRIBUTION FOR SECNO=      3.12          CWSEL=   1888.98

STA=    9964.    9975.   10025.   10036.
  PER Q=      4.0     92.0      4.0
   AREA=     36.7    304.2     36.7
    VEL=      1.9      5.1      1.9
  DEPTH=      3.3      6.1      3.3
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
           QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
  TIME     VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
  SLOPE    XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 3.130

3470 ENCROACHMENT STATIONS=     9965.0   10035.0  TYPE=      1  TARGET=       70.000
     3.130      5.58   1888.98   1886.62   1888.58   1889.44       .46       .06       .02   1883.40
    1701.0      63.1    1574.9      63.1      30.9     279.3      30.9     307.6      85.7   1883.40
       .75      2.04      5.64      2.04      .050      .030      .050      .000   1883.40   9965.00
   .001308       38.       50.       59.         2        11         0       .00     70.00  10035.00


FLOW DISTRIBUTION FOR SECNO=      3.13          CWSEL=   1888.98

STA=    9965.    9975.   10025.   10035.
  PER Q=      3.7     92.6      3.7
   AREA=     30.9    279.3     30.9
    VEL=      2.0      5.6      2.0
  DEPTH=      3.1      5.6      3.1

*SECNO 3.140

3470 ENCROACHMENT STATIONS=     9966.0   10034.0  TYPE=      1  TARGET=       68.000
     3.140      5.09   1888.99   1887.13   1888.59   1889.55       .57       .08       .03   1883.90
    1701.0      57.8    1585.4      57.8      25.5     254.3      25.5     308.0      85.7   1883.90
       .75      2.27      6.23      2.27      .050      .030      .050      .000   1883.90   9966.00
   .001812       50.       50.       53.         2        11         0       .00     68.00  10034.00


FLOW DISTRIBUTION FOR SECNO=      3.14          CWSEL=   1888.99

STA=    9966.    9975.   10025.   10034.
  PER Q=      3.4     93.2      3.4
   AREA=     25.5    254.3     25.5
    VEL=      2.3      6.2      2.3
  DEPTH=      2.8      5.1      2.8

CCHV=     .300 CEHV=     .500
*SECNO 3.149

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    L-BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      R-BANK ELEV
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


3470 ENCROACHMENT STATIONS=     9988.0   10012.0  TYPE=      1  TARGET=      24.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1894.40 ELREA=      1894.40

    3.149     5.36   1889.76   1889.76   1889.78   1892.48      2.71       .18      1.07   1884.40
   1701.0       .0    1701.0       .0       .0     128.7        .0     308.2      85.8 100000.00
      .75      .00     13.21       .00      .000      .030      .000      .000   1884.40   9988.00
  .009914      48.       50.       52.         0         8         0       .00     24.00  10012.00


FLOW DISTRIBUTION FOR SECNO=      3.15          CWSEL=   1889.76

STA=    9988.   10012.
  PER Q=    100.0
   AREA=    128.7
    VEL=     13.2
  DEPTH=      5.4


SPECIAL CULVERT

 CUNO     CUNV     ENTLC    COFQ     RDLEN    RISE     SPAN     CULVLN   CHRT     SCL      ELCHU    ELCHD
    2      .013      .40     3.00       .00    10.00    12.00   150.00     8        1     1885.61  1884.42

CHART  8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
SCALE  1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO 3.177

SPECIAL CULVERT OUTLET CONTROL
EGIC =   1894.228  EGOC =   1894.761  PCWSE=   1889.764  ELTRD=   1899.000


3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.88
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
1894.23	1894.76	2.29	0.	1701.	8.949	240.0	1899.00	0.

3470 ENCROACHMENT STATIONS= 9988.0 10013.0 TYPE= 1 TARGET= 25.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1899.20 ELREA= 1899.50

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 BOX CULVERT BENEATH CLOUD ROAD AS ANALYZEED BY THE FLOOD CONTROL
 DISTRICT OF MARACOPA COUNTY.  TWO 12'X10'X155' CBC'S WITH
 HEAD AND WINGWALLS WILL BE INSTALLED.
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3.177	7.92	1893.52	.00	1893.52	1894.76	1.24	2.29	.00	100000.00
1701.0	.0	1701.0	.0	.0	190.1	.0	308.8	85.9	100000.00
.76	.00	8.95	.00	.000	.013	.000	.000	1885.60	9988.00
.001192	150.	150.	150.	3	0	0	.00	24.00	10013.00

DISTRIBUTION FOR SECNO= 3.18 CWSEL= 1893.52

STA= 9988. 10013.
PER Q= 100.0
AREA= 190.1
VEL= 8.9
DEPTH= 7.9

*SECNO 3.206

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9965.0 10035.0 TYPE= 1 TARGET= 70.000

3.206	4.99	1894.59	1892.81	1894.59	1895.18	.59	.22	.19	1889.60
1701.0	55.7	1589.6	55.7	24.9	249.6	24.9	309.6	86.0	1889.60
.76	2.23	6.37	2.23	.050	.030	.050	.000	1889.60	9965.02
.001938	140.	150.	160.	2	18	0	.00	69.97	10034.98

```
   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      3.21          CWSEL=   1894.59

STA=    9965.    9975.   10025.   10035.
  PER Q=      3.3     93.5      3.3
   AREA=     24.9    249.6     24.9
    VEL=      2.2      6.4      2.2
  DEPTH=      2.5      5.0      2.5

CCHV=     .100 CEHV=     .300
*SECNO 3.224

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9965.0   10034.0  TYPE=      1  TARGET=       69.000
     3.224      3.42   1895.62   1895.62   1895.71   1897.01      1.38       .45       .24   1894.40
    1701.0        .0    1503.8     197.2        .0     152.5      38.3     310.2      86.2   1893.20
       .77       .00      9.86      5.15      .000      .050      .065      .000   1892.20   9965.00
   .024598       96.       96.       96.         0        19         0       .00     69.00  10034.00

FLOW DISTRIBUTION FOR SECNO=      3.22          CWSEL=   1895.62

STA=    9965.   10013.   10034.
  PER Q=     88.4      11.6
   AREA=    152.5      38.3
    VEL=      9.9       5.1
  DEPTH=      3.2       1.8

*SECNO 3.244

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.88


3470 ENCROACHMENT STATIONS=     9981.0   10070.0  TYPE=      1  TARGET=       89.000
     3.244      5.00   1897.80   1896.55   1897.63   1898.32       .52      1.23       .09   1892.80
    1701.0      63.3    1621.7      16.0      20.1     274.2       8.0     310.7      86.4   1895.60
       .77      3.15      5.92      2.00      .065      .050      .065      .000   1892.80   9981.00
   .006934      104.      104.      104.         2         8         0       .00     89.00  10070.00
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      3.24          CWSEL=   1897.80

STA=    9981.    9989.   10063.   10070.
  PER Q=      3.7     95.3       .9
   AREA=     20.1    274.2      8.0
    VEL=      3.1      5.9      2.0
  DEPTH=      2.5      3.7      1.1

*SECNO 3.263

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9979.0   10036.0  TYPE=      1  TARGET=       57.000
     3.263      4.86   1898.26   1898.26   1898.13   1899.90      1.64      1.07       .34   1894.00
    1701.0      85.2    1529.4      86.4      17.6     142.3      22.4     311.3      86.5   1895.60
       .77      4.85     10.75      3.86      .065      .050      .065      .000   1893.40   9979.00
   .018796      105.      100.       95.         0         8         0       .00     57.00  10036.00


 DISTRIBUTION FOR SECNO=      3.26          CWSEL=   1898.26

STA=    9979.    9987.   10020.   10036.
  PER Q=      5.0     89.9      5.1
   AREA=     17.6    142.3     22.4
    VEL=      4.8     10.7      3.9
  DEPTH=      2.2      4.3      1.4

*SECNO 3.300

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.55


3470 ENCROACHMENT STATIONS=     9962.0   10037.0  TYPE=      1  TARGET=       75.000
     3.300      5.73   1901.53   1900.44   1901.61   1902.30       .77      2.31       .09   1898.70
    1701.0      31.7    1560.0     109.3      12.8     214.5      34.5     312.3      86.8   1898.40
       .78      2.47      7.27      3.17      .065      .050      .065      .000   1895.80   9962.00
   .007791      200.      200.      200.         2         8         0       .00     74.59  10036.59
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.30 CWSEL= 1901.53

STA=	9962.	9971.	10017.	10032.	10037.
PER Q=	1.9	91.7	6.2	.2	
AREA=	12.8	214.5	31.9	2.6	
VEL=	2.5	7.3	3.3	1.3	
DEPTH=	1.4	4.7	2.1	.6	

*SECNO 3.400

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9977.0 10039.0 TYPE= 1 TARGET= 62.000

3.400	4.56	1908.56	1908.56	1908.56	1910.07	1.51	6.09	.22	1906.00
1590.0	52.6	1450.0	87.4	12.8	141.7	20.5	314.8	87.6	1906.00
.80	4.11	10.23	4.26	.070	.055	.070	.000	1904.00	9977.47
.023365	495.	495.	495.	0	15	0	.00	60.92	10038.39

FLOW DISTRIBUTION FOR SECNO= 3.40 CWSEL= 1908.56

STA=	9977.	9980.	9988.	10024.	10024.	10036.	10038.
PER Q=	.1	3.3	91.2	.1	5.4	.1	
AREA=	.6	12.2	141.7	.2	19.7	.6	
VEL=	1.4	4.2	10.2	6.1	4.3	1.4	
DEPTH=	.3	1.5	3.9	2.6	1.6	.3	

*SECNO 3.490

3470 ENCROACHMENT STATIONS= 9984.0 10037.0 TYPE= 1 TARGET= 53.000

3.490	5.49	1915.49	1915.47	1915.49	1917.16	1.68	7.04	.05	1912.00
1590.0	80.5	1335.4	174.0	16.1	120.2	32.6	316.0	88.0	1912.00
.80	5.02	11.11	5.34	.070	.055	.070	.000	1910.00	9984.17
.022406	240.	310.	320.	2	11	0	.00	52.03	10036.20

FLOW DISTRIBUTION FOR SECNO= 3.49 CWSEL= 1915.49

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9984.	9988.	9993.	10019.	10030.	10031.	10036.
PER Q=	.5	4.6	84.0	10.1	.3	.6	
AREA=	2.9	13.1	120.2	27.8	1.1	3.7	
VEL=	2.5	5.6	11.1	5.8	4.1	2.5	
DEPTH=	.7	2.5	4.6	2.5	1.5	.7	

*SECNO 3.580

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.45

3470 ENCROACHMENT STATIONS= 9957.0 10023.0 TYPE= 1 TARGET= 66.000

3.580	5.14	1923.14	1922.20	1923.13	1923.98	.84	6.73	.08	1920.00
1590.0	87.9	1445.5	56.6	25.7	189.2	17.2	318.1	88.6	1920.00
.82	3.42	7.64	3.30	.070	.055	.070	.000	1918.00	9957.00
.010703	435.	450.	455.	4	15	0	.00	66.00	10023.00

FLOW DISTRIBUTION FOR SECNO= 3.58 CWSEL= 1923.14

	9957.	9960.	9971.	10013.	10020.	10023.
PER Q=	.2	5.3	90.9	3.3	.2	
AREA=	2.2	23.5	189.2	15.0	2.2	
VEL=	1.6	3.6	7.6	3.5	1.6	
DEPTH=	.7	2.1	4.6	2.1	.7	

*SECNO 3.670

3470 ENCROACHMENT STATIONS= 9977.0 10035.0 TYPE= 1 TARGET= 58.000

3.670	3.94	1929.94	1929.69	1929.94	1931.27	1.32	7.14	.15	1928.00
1590.0	20.3	1553.7	16.1	6.8	166.5	5.2	320.4	89.3	1928.00
.84	2.98	9.33	3.10	.070	.055	.070	.000	1926.00	9977.86
.021541	475.	485.	495.	3	15	0	.00	57.14	10035.00

FLOW DISTRIBUTION FOR SECNO= 3.67 CWSEL= 1929.94

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
           QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME    VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE   XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9978.    9985.   10030.   10035.
  PER Q=      1.3     97.7      1.0
   AREA=      6.8    166.5      5.2
    VEL=      3.0      9.3      3.1
  DEPTH=      1.0      3.7      1.1

*SECNO 3.750

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.51


3470 ENCROACHMENT STATIONS=     9957.5   10014.5  TYPE=      1  TARGET=       57.000
     3.750      5.84   1935.84   1934.63   1935.84   1936.72       .88      5.41       .04   1932.00
    1590.0      99.4    1441.9      48.7      27.9     183.9      14.4     322.2      89.8   1932.00
       .85      3.57      7.84      3.37      .070      .055      .070      .000   1930.00   9957.50
   .009487      380.      395.      415.         3         8         0       .00     57.00  10014.50


FLOW DISTRIBUTION FOR SECNO=      3.75          CWSEL=   1935.84

STA=    9958.    9964.    9972.   10007.   10011.   10014.
  PER Q=       .8      5.5     90.7      2.7       .4
   AREA=      6.4     21.5    183.9     11.1      3.3
    VEL=      1.9      4.1      7.8      3.8      1.8
  DEPTH=       .9      2.8      5.2      2.8       .9

*SECNO 3.840

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9971.0   10020.3  TYPE=      1  TARGET=       49.300
     3.840      5.77   1943.77   1943.77   1943.75   1945.56      1.79      6.43       .27   1940.00
    1590.0     159.4    1322.2     108.4      30.0     114.7      20.8     324.3      90.4   1940.00
       .86      5.30     11.52      5.22      .070      .055      .070      .000   1938.00   9971.20
   .021370      490.      470.      440.         0         5         0       .00     49.10  10020.30
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.84 CWSEL= 1943.77

STA=	9971.	9979.	9987.	10010.	10015.	10020.
PER Q=	1.2	8.9	83.2	6.0	.8	
AREA=	6.6	23.4	114.7	16.2	4.6	
VEL=	2.8	6.0	11.5	5.9	2.8	
DEPTH=	.9	2.8	5.1	2.8	.9	

*SECNO 3.930

3470 ENCROACHMENT STATIONS= 9977.0 10035.0 TYPE= 1 TARGET= 58.000

3.930	5.55	1951.55	1951.11	1951.57	1952.87	1.32	7.27	.05	1948.00
1590.0	83.1	1372.7	134.3	19.3	140.7	30.7	325.9	90.9	1948.00
.88	4.29	9.76	4.38	.070	.055	.070	.000	1946.00	9978.09
.015628	400.	400.	400.	3	11	0	.00	56.28	10034.36

FLOW DISTRIBUTION FOR SECNO= 3.93 CWSEL= 1951.55

STA=	9978.	9983.	9989.	10017.	10027.	10034.
PER Q=	.5	4.7	86.3	7.6	.8	
AREA=	3.7	15.6	140.7	24.8	5.9	
VEL=	2.2	4.8	9.8	4.9	2.2	
DEPTH=	.8	2.6	5.0	2.6	.8	

*SECNO 4.030
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9971.4 10048.6 TYPE= 1 TARGET= 77.199

4.030	3.56	1963.56	1963.56	1963.55	1964.83	1.27	10.89	.00	1960.00
1590.0	259.0	1067.7	263.2	45.1	104.2	44.4	328.3	91.7	1960.00
.89	5.74	10.25	5.93	.070	.055	.070	.000	1960.00	9971.40
.026455	515.	545.	570.	0	14	0	.00	77.20	10048.60

FLOW DISTRIBUTION FOR SECNO= 4.03 CWSEL= 1963.56

STA=	9971.	9982.	9997.	10026.	10041.	10049.
PER Q=	1.7	14.6	67.2	15.4	1.2	
AREA=	8.9	36.2	104.2	38.1	6.3	
VEL=	3.0	6.4	10.2	6.4	2.9	
DEPTH=	.8	2.6	3.6	2.6	.8	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.100

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.69

3470 ENCROACHMENT STATIONS= 9989.7 10056.3 TYPE= 1 TARGET= 66.600

4.100	5.61	1969.61	1968.42	1969.62	1970.40	.79	5.52	.05	1964.00
1590.0	120.3	1014.7	454.9	27.8	123.7	97.0	330.3	92.3	1964.00
.91	4.32	8.21	4.69	.070	.055	.070	.000	1964.00	9989.72
.009239	420.	380.	350.	3	11	0	.00	66.58	10056.30

FLOW DISTRIBUTION FOR SECNO= 4.10 CWSEL= 1969.61

STA=	9990.	9993.	9996.	10000.	10022.	10034.	10046.	10056.
PER Q=	.2	2.1	5.3	63.8	19.8	7.9	.9	
AREA=	2.3	9.2	16.3	123.7	56.2	32.6	8.1	
VEL=	1.6	3.5	5.2	8.2	5.6	3.8	1.8	
DEPTH=	.8	2.6	4.6	5.6	4.6	2.6	.8	

*SECNO 4.200

ENCROACHMENT STATIONS= 9966.3 10041.0 TYPE= 1 TARGET= 74.700

4.200	4.04	1976.04	1975.54	1976.03	1977.02	.99	6.57	.06	1974.00
1590.0	30.4	1524.6	35.0	11.0	187.6	12.6	333.1	93.2	1974.00
.93	2.76	8.13	2.77	.070	.055	.070	.000	1972.00	9966.30
.016498	510.	540.	570.	4	14	0	.00	74.70	10041.00

FLOW DISTRIBUTION FOR SECNO= 4.20 CWSEL= 1976.04

STA=	9966.	9977.	10029.	10041.
PER Q=	1.9	95.9	2.2	
AREA=	11.0	187.6	12.6	
VEL=	2.8	8.1	2.8	
DEPTH=	1.0	3.6	1.0	

*SECNO 4.320

3301 HV CHANGED MORE THAN HVINS

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9971.0   10024.8  TYPE=      1  TARGET=      53.800
     4.320      4.70   1990.70   1990.70   1990.69   1992.33      1.63     11.62       .19   1988.00
    1590.0      58.5    1469.5      62.1      13.6     138.7      14.4     335.7      94.1   1988.00
       .94      4.29     10.59      4.30      .070      .055      .070      .000   1986.00   9971.04
   .023052      640.      600.      560.         0         8         0       .00     53.76  10024.80


FLOW DISTRIBUTION FOR SECNO=      4.32          CWSEL=   1990.70

STA=    9971.    9974.    9981.   10014.   10022.   10025.
  PER Q=       .1      3.6     92.4      3.8       .1
   AREA=       .9     12.7    138.7     13.5      1.0
    VEL=      1.6      4.5     10.6      4.5      1.6
  DEPTH=       .3      1.7      4.2      1.7       .4

*SECNO 4.410

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     9971.0   10050.0  TYPE=      1  TARGET=      79.000
     4.410      3.72   2001.72   2001.45   2001.72   2002.73      1.01     10.34       .06   1998.00
    1590.0     137.1     936.7     516.2      26.2      99.5      89.5     337.8      94.8   1998.00
       .96      5.24      9.41      5.76      .070      .055      .070      .000   1998.00   9971.59
   .021078      460.      470.      470.         4        15         0       .00     78.41  10050.00


FLOW DISTRIBUTION FOR SECNO=      4.41          CWSEL=   2001.72

STA=    9972.    9978.    9985.   10012.   10043.   10050.
  PER Q=       .9      7.7     58.9     31.4      1.1
   AREA=      5.2     20.9     99.5     83.3      6.3
    VEL=      2.7      5.9      9.4      6.0      2.8
  DEPTH=       .9      2.7      3.7      2.7       .9

*SECNO 4.510
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9986.0 10027.3 TYPE= 1 TARGET= 41.300

4.510	5.38	2015.38	2015.38	2015.38	2017.33	1.95	11.36	.28	2012.00
1590.0	60.2	1465.8	64.0	12.2	126.6	12.9	339.9	95.5	2012.00
.97	4.91	11.58	4.94	.070	.055	.070	.000	2010.00	9986.08
.023371	545.	515.	490.	0	11	0	.00	41.22	10027.30

FLOW DISTRIBUTION FOR SECNO= 4.51 CWSEL= 2015.38

STA=	9986.	9989.	9993.	10020.	10024.	10027.
PER Q=	.3	3.5	92.2	3.7	.3	
AREA=	2.0	10.2	126.6	10.8	2.2	
VEL=	2.4	5.4	11.6	5.5	2.4	
DEPTH=	.7	2.4	4.8	2.4	.7	

THIS RUN EXECUTED 22JUN92 16:31:41

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HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1991
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

6-22-92 PARADISE WASH -

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	2.600	.00	.00	.00	1724.00	17136.00	1735.70	1733.86	1736.24	40.69	8.00	3530.35	2686.48
	2.600	.00	.00	.00	1724.00	17136.00	1735.70	1733.85	1736.26	41.35	8.07	3460.64	2664.84
*	.040	205.00	.00	.00	1726.00	5763.00	1737.04	1733.54	1737.15	10.32	3.36	2489.06	1794.03
*	.040	205.00	.00	.00	1726.00	5763.00	1737.06	1733.54	1737.18	10.17	3.34	2490.65	1806.75
*	.130	390.00	.00	.00	1732.00	5763.00	1737.91	1737.28	1738.29	65.59	6.70	1486.74	711.62
*	.130	390.00	.00	.00	1732.00	5763.00	1738.01	1737.41	1738.91	118.80	9.13	886.81	528.74
	.170	225.00	.00	.00	1732.00	5763.00	1739.30	1738.72	1739.77	64.78	6.45	1352.03	716.01
	.170	225.00	.00	.00	1732.00	5763.00	1740.18	1738.48	1740.91	65.66	7.22	904.50	711.21
*	.280	470.00	.00	.00	1738.00	5763.00	1743.70	1743.37	1744.35	154.85	9.04	1068.27	463.12
	.280	470.00	.00	.00	1738.00	5763.00	1744.40	1743.68	1745.11	119.54	8.76	959.59	527.09
*	.340	480.00	.00	.00	1744.00	5763.00	1748.28	1746.80	1748.49	49.74	4.58	1668.94	817.17
*	.340	480.00	.00	.00	1744.00	5763.00	1748.68	1746.99	1748.94	50.55	4.93	1490.12	810.53
	.440	490.00	.00	.00	1746.00	5763.00	1751.49	1750.53	1751.80	90.99	6.42	1372.73	604.14
*	.440	490.00	.00	.00	1746.00	5763.00	1752.10	1750.78	1752.64	103.95	7.55	1015.52	565.24
	.530	495.00	.00	.00	1750.00	5763.00	1755.75	1755.13	1756.22	85.17	7.63	1288.03	624.47
	.530	495.00	.00	.00	1750.00	5763.00	1756.59	1755.31	1757.26	81.54	8.22	989.59	638.20
	.620	450.00	.00	.00	1754.00	5763.00	1759.57	1759.16	1760.04	87.91	7.53	1335.01	614.64
	.620	450.00	.00	.00	1754.00	5763.00	1760.28	1759.17	1760.93	82.51	7.96	1013.09	634.43
	.720	420.00	.00	.00	1758.00	5763.00	1762.97	1761.89	1763.20	62.14	5.85	1650.46	731.06
	.720	420.00	.00	.00	1758.00	5763.00	1763.98	1762.67	1764.52	87.89	7.93	1064.00	614.73
*	.800	350.00	.00	.00	1762.00	5763.00	1766.71	1766.64	1767.31	179.91	9.57	1158.15	429.66
	.800	350.00	.00	.00	1762.00	5763.00	1767.67	1766.72	1768.28	110.29	8.55	1015.98	548.77

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	.890	500.00	.00	.00	1764.00	5763.00	1771.64	1770.84	1772.05	56.17	6.32	1497.71	768.95
	.890	500.00	.00	.00	1764.00	5763.00	1772.20	1770.65	1773.04	76.74	7.88	856.82	657.86
	.950	275.00	.00	.00	1766.00	5763.00	1773.44	1773.15	1774.09	79.70	7.73	1231.36	645.53
	.950	275.00	.00	.00	1766.00	5763.00	1774.32	1772.97	1775.00	61.00	7.44	1030.14	737.90
*	1.040	400.00	.00	.00	1770.00	5763.00	1776.25	1774.36	1776.41	29.63	4.73	1973.46	1058.64
	1.040	400.00	.00	.00	1770.00	5763.00	1776.91	1774.37	1777.17	33.22	5.38	1516.57	999.83
*	1.120	420.00	.00	.00	1772.00	5763.00	1778.39	1778.39	1779.36	183.35	9.70	924.24	425.60
*	1.120	420.00	.00	.00	1772.00	5763.00	1779.20	1779.08	1780.57	171.42	10.51	730.00	440.16
*	1.210	440.00	.00	.00	1776.00	5763.00	1782.91	1781.78	1783.14	43.59	5.48	1839.98	872.88
*	1.210	440.00	.00	.00	1776.00	5763.00	1783.88	1782.03	1784.16	36.67	5.60	1540.00	951.64
*	1.270	350.00	.00	.00	1778.00	5763.00	1785.12	1784.99	1785.98	101.50	8.52	1082.02	572.01
*	1.270	350.00	.00	.00	1778.00	5763.00	1785.70	1784.61	1786.64	87.26	8.45	837.26	616.93
*	1.370	500.00	.00	.00	1782.00	5763.00	1789.38	1787.30	1789.63	45.57	6.33	1593.43	853.74
	1.370	500.00	.00	.00	1782.00	5763.00	1789.78	1787.25	1790.22	51.62	7.00	1133.69	802.13
	1.460	500.00	.00	.00	1786.00	5763.00	1791.96	1791.33	1792.38	68.78	7.08	1504.69	694.87
	1.460	500.00	.00	.00	1786.00	5763.00	1792.56	1791.28	1793.08	62.97	7.24	1151.59	726.24
	1.540	400.00	.00	.00	1790.00	5763.00	1794.76	1793.72	1795.16	69.40	6.48	1190.20	691.76
	1.540	400.00	.00	.00	1790.00	5763.00	1795.07	1793.69	1795.61	62.94	6.47	992.85	726.41
	1.650	600.00	.00	.00	1796.00	5763.00	1799.99	1799.57	1800.51	121.52	8.23	1073.96	522.79
	1.650	600.00	.00	.00	1796.00	5763.00	1800.09	1799.65	1800.71	125.40	8.51	947.06	514.63
	1.750	490.00	.00	.00	1800.00	4179.00	1805.54	1804.97	1805.98	96.03	7.17	910.50	426.45
	1.750	490.00	.00	.00	1800.00	4179.00	1805.71	1805.07	1806.16	89.41	7.12	894.59	441.95
	1.830	445.00	.00	.00	1806.00	4179.00	1810.73	1810.63	1811.44	144.68	8.96	794.22	347.44
	1.830	445.00	.00	.00	1806.00	4179.00	1811.09	1811.07	1812.26	175.87	10.46	579.39	315.12
*	1.920	455.00	.00	.00	1810.00	4179.00	1815.40	1814.97	1815.95	69.86	7.27	940.33	499.98
*	1.920	455.00	.00	.00	1810.00	4179.00	1816.20	1814.93	1816.87	59.29	7.39	722.75	542.74
*	2.000	400.00	.00	.00	1814.00	4179.00	1820.01	1820.01	1820.76	105.86	9.41	867.75	406.17
*	2.000	400.00	.00	.00	1814.00	4179.00	1819.86	1819.86	1821.07	152.01	11.07	587.17	338.95
	2.070	390.00	.00	.00	1821.00	4179.00	1823.72	1823.06	1823.90	77.19	4.73	1329.53	475.66
	2.070	390.00	.00	.00	1821.00	4179.00	1824.71	1823.74	1825.09	79.23	6.02	904.19	469.48
	2.140	380.00	.00	.00	1824.00	4179.00	1827.19	1826.81	1827.49	110.43	6.77	1110.79	397.67
	2.140	380.00	.00	.00	1824.00	4179.00	1827.99	1827.06	1828.48	94.71	7.28	799.71	429.41
*	2.230	440.00	.00	.00	1826.00	4179.00	1832.36	1832.36	1833.17	97.70	9.30	874.81	422.78
	2.230	440.00	.00	.00	1826.00	4179.00	1832.48	1832.26	1833.56	112.27	10.11	630.60	394.41

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	2.370	715.00	.00	.00	1836.00	1701.00	1839.96	1839.61	1840.32	94.95	6.36	460.59	174.56
*	2.370	715.00	.00	.00	1836.00	1701.00	1840.57	1839.69	1841.01	75.51	6.36	356.55	195.75
	2.450	425.00	.00	.00	1840.00	1701.00	1844.68	1844.64	1845.41	134.46	8.49	330.03	146.69
	2.450	425.00	.00	.00	1840.00	1701.00	1844.78	1844.48	1845.65	140.18	8.82	268.75	143.67
	2.530	515.00	.00	.00	1846.00	1701.00	1850.54	1850.30	1851.00	85.42	6.84	438.20	184.04
	2.530	515.00	.00	.00	1846.00	1701.00	1850.86	1850.16	1851.50	90.54	7.41	304.29	178.76
*	2.620	490.00	.00	.00	1853.00	1701.00	1856.46	1856.41	1857.06	186.65	7.71	329.10	124.51
	2.620	490.00	.00	.00	1853.00	1701.00	1856.80	1856.42	1857.60	175.16	8.13	256.35	128.53
	2.710	450.00	.00	.00	1858.00	1701.00	1862.41	1862.22	1862.90	96.89	7.13	405.52	172.81
	2.710	450.00	.00	.00	1858.00	1701.00	1863.05	1862.63	1863.98	113.89	8.56	252.93	159.39
	2.790	470.00	.00	.00	1862.00	1701.00	1867.93	1867.92	1869.30	152.56	10.67	216.94	137.72
	2.790	470.00	.00	.00	1862.00	1701.00	1868.30	1867.93	1869.35	109.95	9.50	247.70	162.22
	2.880	460.00	.00	.00	1870.00	1701.00	1874.35	1873.61	1874.81	81.07	6.39	359.10	188.92
	2.880	460.00	.00	.00	1870.00	1701.00	1874.44	1874.13	1875.72	167.23	9.33	198.27	131.53
*	2.970	490.00	.00	.00	1876.00	1701.00	1880.18	1880.12	1881.26	194.57	9.66	233.09	121.95
*	2.970	490.00	.00	.00	1876.00	1701.00	1881.05	1880.11	1881.62	78.03	7.07	315.89	192.57
*	3.080	520.00	.00	.00	1880.40	1701.00	1886.32	1884.96	1886.89	63.86	6.28	303.19	212.86
	3.080	520.00	.00	.00	1880.40	1701.00	1885.72	1884.95	1886.52	108.03	7.40	251.00	163.65
	3.111	200.00	.00	.00	1882.40	1701.00	1887.88	1887.47	1888.83	141.40	9.80	254.77	143.05
	3.111	200.00	.00	.00	1882.40	1701.00	1888.02	1887.64	1889.17	152.00	10.38	229.00	137.97
*	3.120	50.00	.00	.00	1882.90	1701.00	1888.58	1886.13	1889.03	12.35	5.54	348.71	483.93
*	3.120	50.00	.00	.00	1882.90	1701.00	1888.98	1886.12	1889.37	9.70	5.14	377.57	546.04
	3.130	50.00	.00	.00	1883.40	1701.00	1888.58	1886.62	1889.13	16.96	6.11	313.18	413.02
	3.130	50.00	.00	.00	1883.40	1701.00	1888.98	1886.62	1889.44	13.08	5.64	340.98	470.38
	3.140	50.00	.00	.00	1883.90	1701.00	1888.59	1887.12	1889.27	24.03	6.80	278.55	347.00
	3.140	50.00	.00	.00	1883.90	1701.00	1888.99	1887.13	1889.55	18.12	6.23	305.31	399.65
*	3.149	50.00	.00	.00	1884.40	1701.00	1889.78	1889.78	1892.47	75.11	13.18	129.08	196.27
*	3.149	50.00	.00	.00	1884.40	1701.00	1889.76	1889.76	1892.48	99.14	13.21	128.74	170.83
*	3.177	150.00	1899.00	.00	1885.60	1701.00	1893.52	.00	1894.76	11.91	8.95	190.13	492.82
*	3.177	150.00	1899.00	.00	1885.60	1701.00	1893.52	.00	1894.76	11.92	8.95	190.08	492.63
	3.206	150.00	.00	.00	1889.60	1701.00	1894.59	1892.81	1895.18	19.48	6.38	298.91	385.44
	3.206	150.00	.00	.00	1889.60	1701.00	1894.59	1892.81	1895.18	19.38	6.37	299.42	386.41
*	3.224	96.00	.00	.00	1892.20	1701.00	1895.71	1895.71	1896.89	202.10	9.25	217.27	119.65
*	3.224	96.00	.00	.00	1892.20	1701.00	1895.62	1895.62	1897.01	245.98	9.86	190.85	108.46

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	3.244	104.00	.00	.00	1892.80	1701.00	1897.63	1896.54	1898.21	80.52	6.19	288.14	189.56
*	3.244	104.00	.00	.00	1892.80	1701.00	1897.80	1896.55	1898.32	69.34	5.92	302.25	204.28
*	3.263	100.00	.00	.00	1893.40	1701.00	1898.13	1898.13	1899.91	211.80	11.17	174.62	116.88
*	3.263	100.00	.00	.00	1893.40	1701.00	1898.26	1898.26	1899.90	187.96	10.75	182.22	124.07
*	3.300	200.00	.00	.00	1895.80	1701.00	1901.61	1900.44	1902.34	73.16	7.13	267.72	198.87
*	3.300	200.00	.00	.00	1895.80	1701.00	1901.53	1900.44	1902.30	77.91	7.27	261.75	192.71
*	3.400	495.00	.00	.00	1904.00	1590.00	1908.56	1908.56	1910.07	234.89	10.25	174.72	103.74
*	3.400	495.00	.00	.00	1904.00	1590.00	1908.56	1908.56	1910.07	233.65	10.23	175.05	104.02
	3.490	310.00	.00	.00	1910.00	1590.00	1915.49	1915.46	1917.16	223.00	11.09	169.10	106.47
	3.490	310.00	.00	.00	1910.00	1590.00	1915.49	1915.47	1917.16	224.06	11.11	168.81	106.22
*	3.580	450.00	.00	.00	1918.00	1590.00	1923.13	1922.20	1923.98	107.41	7.65	231.92	153.42
*	3.580	450.00	.00	.00	1918.00	1590.00	1923.14	1922.20	1923.98	107.03	7.64	232.01	153.69
	3.670	485.00	.00	.00	1926.00	1590.00	1929.94	1929.68	1931.27	214.68	9.32	178.82	108.52
	3.670	485.00	.00	.00	1926.00	1590.00	1929.94	1929.69	1931.27	215.41	9.33	178.45	108.33
*	3.750	395.00	.00	.00	1930.00	1590.00	1935.84	1934.63	1936.72	95.01	7.84	226.10	163.12
*	3.750	395.00	.00	.00	1930.00	1590.00	1935.84	1934.63	1936.72	94.87	7.84	226.21	163.24
*	3.840	470.00	.00	.00	1938.00	1590.00	1943.75	1943.75	1945.56	216.63	11.58	164.72	108.03
*	3.840	470.00	.00	.00	1938.00	1590.00	1943.77	1943.77	1945.56	213.70	11.52	165.54	108.77
	3.930	400.00	.00	.00	1946.00	1590.00	1951.57	1951.11	1952.87	154.43	9.72	191.55	127.95
	3.930	400.00	.00	.00	1946.00	1590.00	1951.55	1951.11	1952.87	156.28	9.76	190.69	127.19
*	4.030	545.00	.00	.00	1960.00	1590.00	1963.55	1963.55	1964.83	268.36	10.30	192.85	97.06
*	4.030	545.00	.00	.00	1960.00	1590.00	1963.56	1963.56	1964.83	264.55	10.25	193.76	97.76
*	4.100	380.00	.00	.00	1964.00	1590.00	1969.62	1968.42	1970.40	91.71	8.19	249.18	166.03
*	4.100	380.00	.00	.00	1964.00	1590.00	1969.61	1968.42	1970.40	92.39	8.21	248.48	165.42
	4.200	540.00	.00	.00	1972.00	1590.00	1976.03	1975.54	1977.02	166.00	8.14	210.80	123.41
	4.200	540.00	.00	.00	1972.00	1590.00	1976.04	1975.54	1977.02	164.98	8.13	211.24	123.79
*	4.320	600.00	.00	.00	1986.00	1590.00	1990.69	1990.69	1992.33	231.33	10.60	166.60	104.54
*	4.320	600.00	.00	.00	1986.00	1590.00	1990.70	1990.70	1992.33	230.52	10.59	166.81	104.72
	4.410	470.00	.00	.00	1998.00	1590.00	2001.72	2001.44	2002.73	210.10	9.40	215.47	109.69
	4.410	470.00	.00	.00	1998.00	1590.00	2001.72	2001.45	2002.73	210.78	9.41	215.22	109.52
*	4.510	515.00	.00	.00	2010.00	1590.00	2015.38	2015.38	2017.33	235.24	11.60	151.45	103.67
*	4.510	515.00	.00	.00	2010.00	1590.00	2015.38	2015.38	2017.33	233.71	11.58	151.80	104.01

-92 PARADISE WASH -

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	2.600	17136.00	1735.70	.00	.00	.00	705.15	.00
	2.600	17136.00	1735.70	.00	.00	.00	650.00	.00
*	.040	5763.00	1737.04	.00	1.34	.00	566.67	205.00
*	.040	5763.00	1737.06	.03	1.36	.03	545.00	205.00
*	.130	5763.00	1737.91	.00	.87	.00	590.83	390.00
*	.130	5763.00	1738.01	.09	.94	.09	259.50	390.00
	.170	5763.00	1739.30	.00	1.39	.00	573.75	225.00
	.170	5763.00	1740.18	.88	2.17	.88	186.80	225.00
*	.280	5763.00	1743.70	.00	4.40	.00	468.05	470.00
	.280	5763.00	1744.40	.70	4.22	.70	271.00	470.00
*	.340	5763.00	1748.28	.00	4.59	.00	559.03	480.00
*	.340	5763.00	1748.68	.40	4.28	.40	422.00	480.00
	.440	5763.00	1751.49	.00	3.21	.00	544.02	490.00
*	.440	5763.00	1752.10	.62	3.42	.62	266.00	490.00
	.530	5763.00	1755.75	.00	4.26	.00	517.68	495.00
	.530	5763.00	1756.59	.84	4.48	.84	228.00	495.00
	.620	5763.00	1759.57	.00	3.81	.00	635.13	450.00
	.620	5763.00	1760.28	.72	3.70	.72	270.00	450.00
	.720	5763.00	1762.97	.00	3.41	.00	634.05	420.00
	.720	5763.00	1763.98	1.00	3.69	1.00	262.00	420.00
*	.800	5763.00	1766.71	.00	3.73	.00	674.20	350.00
	.800	5763.00	1767.67	.96	3.69	.96	280.00	350.00
*	.890	5763.00	1771.64	.00	4.94	.00	658.51	500.00
	.890	5763.00	1772.20	.56	4.53	.56	170.00	500.00
	.950	5763.00	1773.44	.00	1.79	.00	593.86	275.00
	.950	5763.00	1774.32	.88	2.12	.88	250.00	275.00
*	1.040	5763.00	1776.25	.00	2.81	.00	618.53	400.00
	1.040	5763.00	1776.91	.67	2.59	.67	308.00	400.00
*	1.120	5763.00	1778.39	.00	2.14	.00	516.43	420.00
*	1.120	5763.00	1779.20	.81	2.29	.81	264.89	420.00
*	1.210	5763.00	1782.91	.00	4.52	.00	739.42	440.00
*	1.210	5763.00	1783.88	.97	4.68	.97	381.00	440.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	1.270	5763.00	1785.12	.00	2.21	.00	628.69	350.00
*	1.270	5763.00	1785.70	.59	1.83	.59	190.00	350.00
*	1.370	5763.00	1789.38	.00	4.26	.00	680.27	500.00
	1.370	5763.00	1789.78	.40	4.08	.40	203.00	500.00
	1.460	5763.00	1791.96	.00	2.58	.00	789.67	500.00
	1.460	5763.00	1792.56	.60	2.78	.60	294.00	500.00
	1.540	5763.00	1794.76	.00	2.80	.00	627.83	400.00
	1.540	5763.00	1795.07	.31	2.52	.31	256.00	400.00
	1.650	5763.00	1799.99	.00	5.23	.00	626.79	600.00
	1.650	5763.00	1800.09	.10	5.01	.10	502.64	600.00
	1.750	4179.00	1805.54	.00	5.55	.00	419.35	490.00
	1.750	4179.00	1805.71	.17	5.62	.17	366.00	490.00
	1.830	4179.00	1810.73	.00	5.20	.00	434.12	445.00
	1.830	4179.00	1811.09	.36	5.38	.36	222.00	445.00
*	1.920	4179.00	1815.40	.00	4.67	.00	439.93	455.00
*	1.920	4179.00	1816.20	.80	5.11	.80	172.00	455.00
*	2.000	4179.00	1820.01	.00	4.62	.00	623.67	400.00
*	2.000	4179.00	1819.86	-.15	3.66	-.15	213.51	400.00
	2.070	4179.00	1823.72	.00	3.70	.00	770.59	390.00
	2.070	4179.00	1824.71	.99	4.85	.99	313.20	390.00
	2.140	4179.00	1827.19	.00	3.47	.00	703.38	380.00
	2.140	4179.00	1827.99	.80	3.28	.80	253.80	380.00
*	2.230	4179.00	1832.36	.00	5.17	.00	568.15	440.00
	2.230	4179.00	1832.48	.12	4.49	.12	213.00	440.00
*	2.370	1701.00	1839.96	.00	7.60	.00	319.91	715.00
*	2.370	1701.00	1840.57	.61	8.09	.61	120.00	715.00
	2.450	1701.00	1844.68	.00	4.72	.00	243.30	425.00
	2.450	1701.00	1844.78	.11	4.22	.11	102.00	425.00
	2.530	1701.00	1850.54	.00	5.87	.00	398.94	515.00
	2.530	1701.00	1850.86	.32	6.08	.32	101.00	515.00
*	2.620	1701.00	1856.46	.00	5.91	.00	295.71	490.00
	2.620	1701.00	1856.80	.34	5.94	.34	98.00	490.00
	2.710	1701.00	1862.41	.00	5.95	.00	283.16	450.00
	2.710	1701.00	1863.05	.64	6.25	.64	84.10	450.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	2.790	1701.00	1867.93	.00	5.52	.00	82.99	470.00
	2.790	1701.00	1868.30	.37	5.25	.37	83.80	470.00
	2.880	1701.00	1874.35	.00	6.41	.00	150.74	460.00
	2.880	1701.00	1874.44	.09	6.14	.09	60.80	460.00
*	2.970	1701.00	1880.18	.00	5.83	.00	97.31	490.00
*	2.970	1701.00	1881.05	.88	6.61	.88	95.00	490.00
*	3.080	1701.00	1886.32	.00	6.14	.00	89.87	520.00
	3.080	1701.00	1885.72	-.60	4.66	-.60	81.75	520.00
*	3.111	1701.00	1887.88	.00	1.56	.00	88.89	200.00
	3.111	1701.00	1888.02	.15	2.31	.15	67.00	200.00
*	3.120	1701.00	1888.58	.00	.71	.00	72.73	50.00
*	3.120	1701.00	1888.98	.40	.96	.40	72.00	50.00
	3.130	1701.00	1888.58	.00	.00	.00	70.75	50.00
	3.130	1701.00	1888.98	.40	.00	.40	70.00	50.00
	3.140	1701.00	1888.59	.00	.01	.00	68.76	50.00
	3.140	1701.00	1888.99	.39	.00	.39	68.00	50.00
*	3.149	1701.00	1889.78	.00	1.19	.00	24.00	50.00
*	3.149	1701.00	1889.76	-.01	.78	-.01	24.00	50.00
	3.177	1701.00	1893.52	.00	3.74	.00	24.01	150.00
*	3.177	1701.00	1893.52	.00	3.75	.00	24.00	150.00
	3.206	1701.00	1894.59	.00	1.07	.00	69.94	150.00
	3.206	1701.00	1894.59	.00	1.07	.00	69.97	150.00
*	3.224	1701.00	1895.71	.00	1.13	.00	100.03	96.00
*	3.224	1701.00	1895.62	-.09	1.04	-.09	69.00	96.00
*	3.244	1701.00	1897.63	.00	1.92	.00	88.57	104.00
*	3.244	1701.00	1897.80	.16	2.17	.16	89.00	104.00
*	3.263	1701.00	1898.13	.00	.49	.00	57.00	100.00
*	3.263	1701.00	1898.26	.13	.46	.13	57.00	100.00
*	3.300	1701.00	1901.61	.00	3.48	.00	75.24	200.00
*	3.300	1701.00	1901.53	-.07	3.27	-.07	74.59	200.00
*	3.400	1590.00	1908.56	.00	6.95	.00	60.88	495.00
*	3.400	1590.00	1908.56	.01	7.03	.01	60.92	495.00
	3.490	1590.00	1915.49	.00	6.93	.00	52.06	310.00
	3.490	1590.00	1915.49	.00	6.92	.00	52.03	310.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	3.580	1590.00	1923.13	.00	7.64	.00	67.54	450.00
*	3.580	1590.00	1923.14	.00	7.65	.00	66.00	450.00
	3.670	1590.00	1929.94	.00	6.81	.00	57.98	485.00
	3.670	1590.00	1929.94	.00	6.80	.00	57.14	485.00
*	3.750	1590.00	1935.84	.00	5.89	.00	57.17	395.00
*	3.750	1590.00	1935.84	.00	5.90	.00	57.00	395.00
*	3.840	1590.00	1943.75	.00	7.91	.00	49.32	470.00
*	3.840	1590.00	1943.77	.02	7.93	.02	49.10	470.00
	3.930	1590.00	1951.57	.00	7.81	.00	56.40	400.00
	3.930	1590.00	1951.55	-.01	7.78	-.01	56.28	400.00
*	4.030	1590.00	1963.55	.00	11.98	.00	77.70	545.00
*	4.030	1590.00	1963.56	.01	12.01	.01	77.20	545.00
*	4.100	1590.00	1969.62	.00	6.07	.00	66.74	380.00
*	4.100	1590.00	1969.61	-.01	6.05	-.01	66.58	380.00
	4.200	1590.00	1976.03	.00	6.41	.00	75.16	540.00
	4.200	1590.00	1976.04	.01	6.43	.01	74.70	540.00
*	4.320	1590.00	1990.69	.00	14.66	.00	53.75	600.00
*	4.320	1590.00	1990.70	.00	14.66	.00	53.76	600.00
	4.410	1590.00	2001.72	.00	11.03	.00	78.55	470.00
	4.410	1590.00	2001.72	.00	11.02	.00	78.41	470.00
*	4.510	1590.00	2015.38	.00	13.66	.00	41.20	515.00
*	4.510	1590.00	2015.38	.01	13.67	.01	41.22	515.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=      .040  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .040  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .130  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .130  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .280  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .340  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .340  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .440  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .800  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .890  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.040  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     1.120  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.120  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     1.120  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

[illegible]NG SECNO=     1.210  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
[illegible]NG SECNO=     1.210  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.270  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.270  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.370  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.920  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.920  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     2.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     2.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     2.230  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.230  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     2.370  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.370  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.620  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.970  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.970  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.080  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     3.111  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.120  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.120  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     3.149  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.149  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     3.149  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.149  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     3.177  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.177  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     3.224  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.224  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     3.224  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.224  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     3.244  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.244  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     3.263  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.263  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     3.263  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.263  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     3.300  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.300  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     3.400  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.400  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     3.400  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.400  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     3.580  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.580  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.750  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.750  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     3.840  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.840  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     3.840  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     3.840  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     4.030  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.030  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     4.030  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.030  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     4.100  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.100  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=      4.320  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.320  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      4.320  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.320  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      4.510  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.510  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      4.510  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      4.510  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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FLOODWAY DATA, 6-22-92 PARADISE WASH -
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
2.600	650.	3461.	5.0	1735.7	1735.7	.0
.040	545.	2491.	2.3	1737.0	1737.0	.0
.130	259.	887.	6.5	1738.0	1737.9	.1
.170	187.	904.	6.4	1740.2	1739.3	.9
.280	271.	960.	6.0	1744.4	1743.7	.7
.340	422.	1490.	3.9	1748.7	1748.3	.4
.440	266.	1016.	5.7	1752.1	1751.5	.6
.530	228.	990.	5.8	1756.6	1755.8	.8
.620	270.	1013.	5.7	1760.3	1759.6	.7
.720	262.	1064.	5.4	1764.0	1763.0	1.0
.800	280.	1016.	5.7	1767.7	1766.7	1.0
.890	170.	857.	6.7	1772.2	1771.6	.6
.950	250.	1030.	5.6	1774.3	1773.4	.9
1.040	308.	1517.	3.8	1776.9	1776.2	.7
1.120	391.	730.	7.9	1779.2	1778.4	.8
1.210	381.	1540.	3.7	1783.9	1782.9	1.0
1.270	190.	837.	6.9	1785.7	1785.1	.6
1.370	203.	1134.	5.1	1789.8	1789.4	.4
1.460	294.	1152.	5.0	1792.6	1792.0	.6
1.540	256.	993.	5.8	1795.1	1794.8	.3
1.650	503.	947.	6.1	1800.1	1800.0	.1
1.750	366.	895.	4.7	1805.7	1805.5	.2
1.830	222.	579.	7.2	1811.1	1810.7	.4
1.920	172.	723.	5.8	1816.2	1815.4	.8
2.000	214.	587.	7.1	1819.8	1820.0	-.2
2.070	313.	904.	4.6	1824.7	1823.7	1.0
2.140	254.	800.	5.2	1828.0	1827.2	.8
2.230	213.	631.	6.6	1832.5	1832.4	.1
2.370	120.	357.	4.8	1840.6	1840.0	.6
2.450	102.	269.	6.3	1844.8	1844.7	.1
2.530	101.	304.	5.6	1850.8	1850.5	.3
2.620	98.	256.	6.6	1856.8	1856.5	.3
2.710	84.	253.	6.7	1863.0	1862.4	.6
2.790	84.	248.	6.9	1868.3	1867.9	.4
2.880	61.	198.	8.6	1874.4	1874.3	.1
2.970	95.	316.	5.4	1881.1	1880.2	.9
3.080	82.	251.	6.8	1885.7	1886.3	-.6
3.111	67.	229.	7.4	1888.0	1887.9	.1
3.120	72.	378.	4.5	1889.0	1888.6	.4
3.130	70.	341.	5.0	1889.0	1888.6	.4
3.140	68.	305.	5.6	1889.0	1888.6	.4
3.149	24.	129.	13.2	1889.8	1889.8	.0

Paradise Wash
Stations in Flood-
way Data Table
Do Not equal
channel Distance
(mkm)

PARADISE WASH - WEST BRANCH

THIS RUN EXECUTED 22JUN92 16:33:24

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.0;  February 1991
************************************


THIS IS AN ARCHIVAL RUN ALL DATA AND RESULTS ARE SAVED ON UNIT   96

AC
AC AERIAL MAPPING:  KENNEY AERIAL MAPPING CO. -- DATE  JULY-NOV. 1990
AC                   1130 W. FILLMORE PHX. AZ. 85007
AC                  PHONE (602) 258-6471   ELLIS HYDE
AC
AC SURVEY CONTROL:  McCUEN GPS INC. -- DATE  JUNE 1990
AC                  8948 W. CALLE LEJOS PEORIA AZ.
AC                  PHONE (602) 995-8445   GLEN McCUEN R.L.S.
AC
AC HYDROLOGY & FIS: JERRY R. JONES & ASSOC. -- DATE FEB 89-JUNE 91
AC                  2929 E. CAMELBACK ROAD
AC                  PHX. AZ. 85016
AC                  PHONE (602) 956-9850   ROGER BAELE P.E.
AC
AC                  FILE:  PRDWST.DAT
AC
AC                  PARADISE WASH- WEST BRANCH
AC
T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME:  PRDWST.DAT     JJA NO. 290-018
T3 REV.  6-22-92PARADISE WASH WEST BRANCH -- 100 YEAR FLOW WITHOUT ENCROACHMENT

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        5        0        0        0        0        0        0       1800      0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0       -1        0        0        0       -1        0        0        15


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    115       150       200

QT        1      5763                            5763
ET               3.1      9915      10418
NH        5      .080    9915.70     .050    10019.63      .065    10316.07       .05     10417.6       .065
NH    10895
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          ***************************************************************
          ***  SECTION IDENTICAL TO SECTION T (1.65) - PARADISE WASH  ***
          ***************************************************************
X1     0.16        23   10316.07   10417.60        600        640        625
GR   1816.0   9300.00    1816.00    9612.12    1814.00    9696.55    1812.00    9805.58    1810.00    9874.13
GR   1808.0   9884.19    1806.00    9892.47    1804.00    9899.94    1802.00    9907.78    1800.00    9915.70
GR   1798.0   9924.08    1796.00    9986.26    1796.00   10010.85    1798.00   10019.63    1800.00   10250.25
GR   1800.0  10303.79    1798.00   10316.07    1796.00   10328.00    1796.00   10363.97    1798.00   10417.60
GR   1800.0     10600       1800      10825       1804      10895

QT       1      1023                                1023
ET              3.1       9987      10165
NC   0.065     0.065      0.055        0.6        0.9
          ************************************
          ***  PARADISE WASH WEST BRANCH  ***
          ************************************
X1    0.25        23       9987      10035        585        445        495
GR    1810      9902       1810       9918       1808       9963       1806       9974       1804       9980
GR    1802      9987       1800       9992     1799.7      10000       1800      10008       1802      10035
GR    1804     10136       1804      10262       1804      10296     1804.8      10423       1804      10480
GR  1803.2     10510       1804      10620       1804      10680       1804      10743       1806      10895
GR    1808     10955       1810      11000     1811.4      11100

ET              3.11       9870      10105
X1    0.32        10       9995      10015        340        320        330
GR    1810      9760       1808       9820       1806       9845       1804       9995       1802      10000
GR    1804     10015       1806      10070       1806      10650       1808      10758       1810      10810

          3.11       9905      10160
          ***************************************************************
          ***  JUST DOWNSTREAM OF 4-48"X70 RCP'S WITH HEADWALLS
          ***            BENEATH CAREFREE HIGHWAY
          ***************************************************************
X1    0.34        16       9998      10012         95         95         95
X3      10                                                                 1807       1807
GR    1814      9635       1812       9703       1810       9743       1808       9812       1806       9970
GR    1804      9998       1803      10000       1804      10012       1806      10053       1808      10113
GR    1808     10230       1806      10320       1806      10340       1808      10460       1808      10650
GR    1810     10760

ET              3.11       9925      10190
SC   4.012       0.5        3.1          0          4          0         68        1.1     1803.5     1803.0
          **************************************************************
          ***  JUST UPSTREAM OF 4-48"X70' RCP'S WITH HEADWALLS
          ***            BENEATH CAREFREE HIGHWAY
          **************************************************************
X1    0.35        14       9990      10011         75         72         68        0.0        0.0        0.0
X2       0         0          2     1807.5     1808.5          0          0          0          0          0
X3      10                                                                 1808     1808.5
BT     -12      9592       1814       1814       9677       1812       1812       9802       1810       1810
BT              9983       1810       1810       9990       1810       1810       9991       1810     1807.5
BT             10010       1810     1807.5      10011       1810       1810      10022       1810       1810
BT             10310     1808.5     1808.5      10740     1809.5     1809.5      10750       1810       1810
GR    1814      9592       1812       9677       1810       9802       1808       9983       1806       9990
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	1803.5	9991	1803.5	10010	1806	10011	1808	10022	1808	10178
	1808.5	10310	1809	10585	1809.5	10740	1810	10750		
ET		3.11	9925	10175						
X1	0.36	11	9945	10045	55	55	55			
GR	1812	9650	1810	9795	1808	9945	1806	9985	1806	10018
GR	1808	10045	1808	10120	1810	10180	1808	10330	1808	10410
GR	1810	10680								
ET		3.1	9950	10023						
X1	0.41	16	9987	10023	255	381	265			
GR	1815.5	9667	1814	9727	1812	9762	1810	9903	1808	9987
GR	1806	9994	1806	10000	1806	10002	1808	10011	1810	10023
GR	1812	10068	1812	10082	1810.4	10125	1811.8	10227	1812	10270
GR	1813.8	10403								
ET		3.1	9981	10050						
NC				0.3	0.5					
X1	0.49	16	9993	10006	370	488	420	0.0	0.0	0.0
GR	1820	9781	1820	9802	1818	9881	1816	9928	1814	9967
GR	1812	9981	1810	9993	1808.8	10000	1810	10006	1812	10046
GR	1814	10078	1814	10088	1812	10112	1812	10117	1814	10133
GR	1815.2	10202								
ET		3.1	9962	10050						
X1	0.59	11	9985	10006	548	446	496	0.0	0.0	0.0
GR	1820	9912	1818	9942	1816	9962	1814	9985	1813.7	10000
GR	1814	10006	1816	10032	1817	10085	1816.5	10177	1818	10218
	1819	10267								
ET		3.1	9977.4	10055						
X1	0.68	10	9987	10013	494	480	502	0.0	0.0	0.0
GR	1826	9910	1824	9964	1822	9975	1820	9987	1818	10000
GR	1820	10013	1820.2	10022	1820	10027	1819.2	10068	1822	10310
ET		3.1	9930	10060						
X1	0.75	8	9993	10006	297	392	358	0.0	0.0	0.0
GR	1826	9652	1824	9839	1822.5	9870	1822	9993	1821.3	10000
GR	1822	10006	1824	10115	1825	10220				
ET		3.1	9982	10149						
X1	0.84	25	9993	10149	393	435	463			
GR	1834	9533	1832	9591	1830	9655	1829.6	9686	1830	9715
GR	1830.2	9738	1830	9762	1828.5	9860	1830	9940	1830	9964
GR	1828	9983	1826	9993	1825.4	10000	1826	10008	1827	10055
GR	1826.7	10083	1826	10133	1825.5	10138	1826	10149	1828	10216
GR	1830	10365	1830	10378	1829.8	10423	1830	10456	1832	10615
ET		3.1	9934.4	10042						
X1	0.92	15	9992	10006	412	603	463			
GR	1840	9598	1838	9676	1836	9872	1834	9905	1832	9953
GR	1830	9992	1829	10000	1830	10006	1832	10042	1832	10058
GR	1831.2	10132	1832	10170	1833.9	10248	1834	10316	1835.2	10420

E		3.1	9977.4	10050						
X1	1.02	10	9993	10011	530	457	500			
GR	1840	9935	1838	9973	1836	9984	1834	9993	1832.7	10000
GR	1834	10011	1836	10067	1838	10168	1840	10272	1840.8	10350
ET		3.1	9974.8	10050						
X1	1.11	14	9989	10013	508	437	494			
GR	1850	9880	1848	9924	1846	9953	1844	9964	1842	9973
GR	1840	9982	1838	9989	1837	10000	1838	10013	1840	10050
GR	1842	10122	1843.7	10222	1843.8	10425	1844	10450		
ET		3.1	9940	10030						
X1	1.19	10	9988	10015	350	442	386			
GR	1848	9792	1846	9865	1844	9903	1842	9988	1840.3	10000
GR	1842	10015	1844	10045	1846	10085	1848	10163	1850	10300
ET		3.1	9950	10030						
X1	1.26	10	9981	10013	474	351	417			
GR	1850	9907	1848	9926	1846	9944	1846	9972	1846	9981
GR	1844.2	10000	1846	10013	1848	10038	1850	10127	1852	10234
ET		3.1	9982	10040						
X1	1.33	15	9994	10017	297	392	322			
GR	1860	9881	1858	9951	1856	9966	1854	9972	1852	9980
GR	1850	9988	1848	9994	1846.6	10000	1848	10017	1850	10040
GR	1852	10122	1854	10222	1856	10270	1858	10312	1860	10430

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

1490 NH CARD USED
*SECNO .160
1553 STARTING NC CARD OMITTED

3265 DIVIDED FLOW

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*****************************************************************
***  SECTION IDENTICAL TO SECTION T (1.65) - PARADISE WASH  ***
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.160	4.00	1800.00	1799.59	1800.00	1800.55	.55	.00	.00	1798.00
5763.0	2852.8	2457.8	452.5	562.5	340.6	182.4	.0	.0	1798.00
.00	5.07	7.22	2.48	.053	.050	.065	.000	1796.00	9915.70
.011774	600.	625.	640.	0	7	0	.00	630.76	10600.00

FLOW DISTRIBUTION FOR SECNO= .16 CWSEL= 1800.00

STA	9916.	9924.	9986.	10011.	10020.	10250.	10316.	10418.	10600.
PER Q=	.5	21.7	13.9	3.0	9.9	.5	42.6	7.9
AREA=	8.4	186.5	98.4	26.3	230.6	12.3	340.6	182.4
VEL=	3.2	6.7	8.1	6.6	2.5	2.5	7.2	2.5
DEPTH=	1.0	3.0	4.0	3.0	1.0	.2	3.4	1.0

CCHV= .600 CEHV= .900
*SECNO .250

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .47

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***********************************
***  PARADISE WASH WEST BRANCH  ***
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.250	4.90	1804.60	1803.15	.00	1804.67	.07	3.83	.29	1802.00
1023.0	14.3	532.2	476.6	11.7	191.1	525.2	10.5	7.8	1802.00
.07	1.22	2.78	.91	.065	.055	.065	.000	1799.70	9978.21
.001705	585.	495.	445.	4	9	0	.00	763.82	10788.46

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .25 CWSEL= 1804.60

STA=	9978.	9987.	10035.	10136.	10262.	10480.	10620.	10743.	10788.
PER Q=	1.4	52.0	20.4	4.9	3.0	12.9	4.8	.6	
AREA=	11.7	191.1	161.4	75.4	61.5	139.7	73.6	13.6	
VEL=	1.2	2.8	1.3	.7	.5	.9	.7	.4	
DEPTH=	1.3	4.0	1.6	.6	.3	1.0	.6	.3	

*SECNO .320
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.320	4.11	1806.11	1806.11	.00	1806.38	.27	1.18	.18	1804.00
1023.0	442.5	381.2	199.3	166.8	62.2	126.1	14.5	13.6	1804.00
.10	2.65	6.13	1.58	.065	.055	.065	.000	1802.00	9843.61
.011708	340.	330.	320.	0	10	0	.00	812.41	10656.02

FLOW DISTRIBUTION FOR SECNO= .32 CWSEL= 1806.11

STA=	9844.	9995.	10015.	10070.	10650.	10656.
PER Q=	43.3	37.3	15.9	3.6	.0	
AREA=	166.8	62.2	61.1	64.6	.3	
VEL=	2.7	6.1	2.7	.6	.4	
DEPTH=	1.1	3.1	1.1	.1	.1	

*SECNO .340

3265 DIVIDED FLOW

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*************************************************************
***  JUST DOWNSTREAM OF 4-48"X70 RCP'S WITH HEADWALLS
***            BENEATH CAREFREE HIGHWAY
*************************************************************
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.340	4.13	1807.13	1807.02	.00	1807.33	.20	.91	.04	1804.00
1023.0	271.8	285.6	465.6	110.4	50.9	196.6	15.3	14.9	1804.00
.11	2.46	5.62	2.37	.065	.055	.065	.000	1803.00	9880.54
.007940	95.	95.	95.	2	7	0	.00	345.34	10407.95

FLOW DISTRIBUTION FOR SECNO= .34 CWSEL= 1807.13

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9881.	9970.	9998.	10012.	10053.	10087.	10320.	10340.	10408.
PER Q=	6.9	19.7	27.9	28.8	2.6	3.9	4.9	5.2	
AREA=	50.7	59.7	50.9	87.4	19.2	28.9	22.6	38.5	
VEL=	1.4	3.4	5.6	3.4	1.4	1.4	2.2	1.4	
DEPTH=	.6	2.1	3.6	2.1	.6	.1	1.1	.6	

SPECIAL CULVERT

SC	CUNO	CUNV	ENTLC	COFQ	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
	4	.012	.50	3.10	.00	4.00	.00	68.00	1	1	1803.50	1803.00

CHART 1 - CONCRETE PIPE CULVERT; NO BEVELED RING ENTRANCE
SCALE 1 - SQUARE EDGE ENTRANCE WITH HEADWALL

5130, EGIC= 1822.65..MAY BE TOO LARGE IF INLET CONTROLS.
5135, EGOC= 1818.62 ..MAY BE TOO LARGE IF OUTLET CONTROLS.
*SECNO .350

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.17

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
1822.65	1818.62	2.09	558.	455.	3.218	50.3	1808.50	574.

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*************************************************************
***  JUST UPSTREAM OF 4-48"X70' RCP'S WITH HEADWALLS
***            BENEATH CAREFREE HIGHWAY
*************************************************************
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.350	5.85	1809.35	.00	.00	1809.42	.07	2.09	.00	1806.00
1023.0	86.7	387.6	548.7	99.4	120.4	568.4	16.3	15.9	1806.00
.12	.87	3.22	.97	.065	.055	.065	.000	1803.50	9860.46
.001687	75.	68.	72.	2	0	0	.00	834.28	10694.74

FLOW DISTRIBUTION FOR SECNO= .35 CWSEL= 1809.35

STA=	9860.	9983.	9990.	10011.	10022.	10178.	10310.	10585.	10695.
PER Q=	5.9	2.6	37.9	4.2	23.7	14.3	10.9	.6	
AREA=	83.0	16.5	120.4	25.9	211.2	145.7	166.1	19.4	
VEL=	.7	1.6	3.2	1.6	1.1	1.0	.7	.3	
DEPTH=	.7	2.4	5.7	2.4	1.4	1.1	.6	.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .360

3265 DIVIDED FLOW

.360	3.49	1809.49	1808.35	.00	1809.52	.04	.08	.02	1808.00
1023.0	55.8	542.9	424.4	83.1	281.9	496.6	17.3	16.8	1808.00
.13	.67	1.93	.85	.065	.055	.065	.000	1806.00	9833.36
.001278	55.	55.	55.	2	18	0	.00	723.89	10610.95

FLOW DISTRIBUTION FOR SECNO= .36 CWSEL= 1809.49

STA=	9833.	9945.	10045.	10120.	10165.	10330.	10410.	10611.
PER Q=	5.5	53.1	11.6	2.2	5.5	12.4	9.8	
AREA=	83.1	281.9	111.6	33.2	83.1	119.1	149.6	
VEL=	.7	1.9	1.1	.7	.7	1.1	.7	
DEPTH=	.7	2.8	1.5	.7	.5	1.5	.7	

*SECNO .410

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .30

.410	4.31	1810.31	1810.03	.00	1810.78	.47	.87	.39	1808.00
1023.0	361.6	660.5	.9	113.8	103.3	1.1	21.2	20.2	1810.00
.14	3.18	6.39	.79	.065	.055	.065	.000	1806.00	9880.90
.014080	255.	265.	381.	2	11	0	.00	149.15	10030.05

FLOW DISTRIBUTION FOR SECNO= .41 CWSEL= 1810.31

STA=	9881.	9903.	9987.	10023.	10030.
PER Q=	.3	35.1	64.6	.1	
AREA=	3.5	110.3	103.3	1.1	
VEL=	.8	3.3	6.4	.8	
DEPTH=	.2	1.3	2.9	.2	

CCHV= .300 CEHV= .500
*SECNO .490

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.66

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
.490	5.23	1814.03	1812.93	.00	1814.24	.22	3.39	.07	1810.00
1023.0	145.9	318.0	559.1	50.5	60.0	204.4	23.9	21.7	1810.00
.18	2.89	5.30	2.74	.065	.055	.065	.000	1808.80	9966.64
.005108	370.	420.	488.	3	11	0	.00	167.43	10134.07

FLOW DISTRIBUTION FOR SECNO= .49 CWSEL= 1814.03

STA=	9967.	9981.	9993.	10006.	10046.	10078.	10112.	10117.	10133.
PER Q=	2.3	12.0	31.1	40.2	5.3	3.9	2.6	2.6	
AREA=	14.3	36.2	60.0	120.7	32.6	24.6	10.1	16.3	
VEL=	1.6	3.4	5.3	3.4	1.7	1.6	2.6	1.6	
DEPTH=	1.0	3.0	4.6	3.0	1.0	.7	2.0	1.0	

*SECNO .590

.590	3.56	1817.26	1816.94	.00	1817.57	.31	3.28	.05	1814.00
1023.0	213.4	428.9	380.6	60.2	71.8	155.4	27.2	23.9	1814.00
.21	3.54	5.98	2.45	.065	.055	.065	.000	1813.70	9949.32
.009506	548.	496.	446.	3	14	0	.00	248.68	10198.00

FLOW DISTRIBUTION FOR SECNO= .59 CWSEL= 1817.26

STA=	9949.	9962.	9985.	10006.	10032.	10085.	10177.	10198.
PER Q=	1.3	19.6	41.9	22.1	7.4	6.7	.9	
AREA=	8.0	52.2	71.8	59.0	40.7	47.7	8.1	
VEL=	1.6	3.8	6.0	3.8	1.9	1.4	1.2	
DEPTH=	.6	2.3	3.4	2.3	.8	.5	.4	

*SECNO .680

.680	3.48	1821.48	1820.81	.00	1821.61	.13	3.99	.05	1820.00
1023.0	10.3	267.0	745.7	6.6	64.5	321.7	30.9	26.9	1820.00
.26	1.56	4.14	2.32	.065	.055	.065	.000	1818.00	9978.10
.007081	494.	502.	480.	5	14	0	.00	287.18	10265.29

FLOW DISTRIBUTION FOR SECNO= .68 CWSEL= 1821.48

STA=	9978.	9987.	10013.	10022.	10027.	10068.	10265.
PER Q=	1.0	26.1	2.9	1.6	22.1	46.2	
AREA=	6.6	64.5	12.4	6.9	77.2	225.2	
VEL=	1.6	4.1	2.4	2.4	2.9	2.1	
DEPTH=	.7	2.5	1.4	1.4	1.9	1.1	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .750

.750	2.73	1824.03	1823.31	.00	1824.15	.12	2.54	.00	1822.00
1023.0	670.7	127.1	225.3	244.0	31.0	113.0	34.2	29.3	1822.00
.29	2.75	4.10	1.99	.065	.055	.065	.000	1821.30	9835.67
.007272	297.	358.	392.	3	14	0	.00	283.08	10118.74

FLOW DISTRIBUTION FOR SECNO= .75 CWSEL= 1824.03

STA=	9836.	9870.	9993.	10006.	10115.	10119.
PER Q=	3.9	61.6	12.4	22.0	.0	
AREA=	24.4	219.6	31.0	112.9	.1	
VEL=	1.7	2.9	4.1	2.0	.0	
DEPTH=	.7	1.8	2.4	1.0	.0	

*SECNO .840

.840	2.46	1827.86	1827.34	.00	1828.05	.20	3.86	.04	1826.00
1023.0	19.6	870.7	132.8	8.6	233.7	57.9	37.6	31.8	1826.00
.33	2.26	3.73	2.29	.065	.055	.065	.000	1825.40	9983.71
.011104	393.	463.	435.	4	19	0	.00	227.57	10211.27

DISTRIBUTION FOR SECNO= .84 CWSEL= 1827.86

STA=	9984.	9993.	10149.	10211.
PER Q=	1.9	85.1	13.0	
AREA=	8.6	233.7	57.9	
VEL=	2.3	3.7	2.3	
DEPTH=	.9	1.5	.9	

*SECNO .920

.920	3.77	1832.77	1832.36	.00	1832.97	.20	4.91	.00	1830.00
1023.0	223.8	252.4	546.9	76.4	45.9	220.3	41.4	34.8	1830.00
.37	2.93	5.50	2.48	.065	.055	.065	.000	1829.00	9934.39
.008648	412.	463.	603.	5	14	0	.00	267.43	10201.83

FLOW DISTRIBUTION FOR SECNO= .92 CWSEL= 1832.77

STA=	9934.	9953.	9992.	10006.	10042.	10058.	10132.	10170.	10202.
PER Q=	.8	21.1	24.7	19.5	2.2	20.1	10.3	1.4	
AREA=	7.2	69.2	45.9	63.9	12.4	87.0	44.7	12.3	
VEL=	1.1	3.1	5.5	3.1	1.8	2.4	2.4	1.1	
DEPTH=	.4	1.8	3.3	1.8	.8	1.2	1.2	.4	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.020

1.020	4.43	1837.13	1836.61	.00	1837.51	.38	4.45	.09	1834.00
1023.0	77.1	442.2	503.7	22.9	68.2	152.8	44.6	37.1	1834.00
.40	3.37	6.48	3.30	.065	.055	.065	.000	1832.70	9977.72
.009873	530.	500.	457.	3	8	0	.00	146.90	10124.63

FLOW DISTRIBUTION FOR SECNO= 1.02 CWSEL= 1837.13

STA=	9978.	9984.	9993.	10011.	10067.	10125.
PER Q=	.5	7.0	43.2	44.2	5.0	
AREA=	3.6	19.3	68.2	119.9	32.9	
VEL=	1.5	3.7	6.5	3.8	1.6	
DEPTH=	.6	2.1	3.8	2.1	.6	

*SECNO 1.110

1.110	4.39	1841.39	1840.66	.00	1841.78	.39	4.26	.01	1838.00
1023.0	67.8	568.6	386.6	21.1	93.3	123.1	47.1	38.5	1838.00
.43	3.22	6.09	3.14	.065	.055	.065	.000	1837.00	9975.75
.008352	508.	494.	437.	3	15	0	.00	124.25	10100.00

FLOW DISTRIBUTION FOR SECNO= 1.11 CWSEL= 1841.39

STA=	9976.	9982.	9989.	10013.	10050.	10100.
PER Q=	.7	5.9	55.6	32.2	5.6	
AREA=	4.3	16.7	93.3	88.4	34.7	
VEL=	1.6	3.6	6.1	3.7	1.6	
DEPTH=	.7	2.4	3.9	2.4	.7	

*SECNO 1.190

1.190	4.33	1844.63	1844.06	.00	1844.91	.27	3.09	.03	1842.00
1023.0	383.7	501.6	137.7	142.7	94.1	53.0	49.5	39.8	1842.00
.45	2.69	5.33	2.60	.065	.055	.065	.000	1840.30	9890.96
.007455	350.	386.	442.	3	9	0	.00	166.72	10057.68

FLOW DISTRIBUTION FOR SECNO= 1.19 CWSEL= 1844.63

STA=	9891.	9903.	9988.	10015.	10045.	10058.
PER Q=	.3	37.2	49.0	13.1	.4	
AREA=	3.8	138.9	94.1	49.0	4.0	
VEL=	.9	2.7	5.3	2.7	.9	
DEPTH=	.3	1.6	3.5	1.6	.3	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.260

1.260	4.04	1848.24	1847.54	.00	1848.59	.36	3.64	.04	1846.00
1023.0	374.8	568.0	80.2	105.1	100.3	32.1	52.1	41.2	1846.00
.48	3.57	5.66	2.50	.065	.055	.065	.000	1844.20	9923.78
.009668	474.	417.	351.	3	19	0	.00	124.62	10048.40

FLOW DISTRIBUTION FOR SECNO= 1.26 CWSEL= 1848.24

STA=	9924.	9926.	9944.	9972.	9981.	10013.	10038.	10048.
PER Q=	.0	5.6	23.5	7.5	55.5	7.8	.1	
AREA=	.3	22.2	62.5	20.1	100.3	30.8	1.2	
VEL=	.5	2.6	3.8	3.8	5.7	2.6	.5	
DEPTH=	.1	1.2	2.2	2.2	3.1	1.2	.1	

*SECNO 1.330

1.330	4.81	1851.41	1850.87	.00	1851.94	.53	3.26	.09	1848.00
1023.0	64.9	655.1	303.1	18.5	94.6	96.3	53.9	42.2	1848.00
.50	3.51	6.93	3.15	.065	.055	.065	.000	1846.60	9982.35
.010104	297.	322.	392.	2	8	0	.00	115.53	10097.88

FLOW DISTRIBUTION FOR SECNO= 1.33 CWSEL= 1851.41

STA=	9982.	9988.	9994.	10017.	10040.	10098.
PER Q=	.7	5.6	64.0	22.4	7.3	
AREA=	4.0	14.5	94.6	55.5	40.9	
VEL=	1.8	4.0	6.9	4.1	1.8	
DEPTH=	.7	2.4	4.1	2.4	.7	

T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME: PRDWST.DAT JJA NO. 290-018 (ENCROACHMENT RUN)
T3 REV. 6-22-92PARADISE WASH WEST BRANCH -- 100 YEAR FLOW FLOODWAY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0	0	0	0	1800.01	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1	0	0	0	-1	0	0	15

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 2

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

1490 NH CARD USED
*SECNO .160
1553 STARTING NC CARD OMITTED

3470 ENCROACHMENT STATIONS= 9915.0 10418.0 TYPE= 1 TARGET= 503.000

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*****************************************************************
***  SECTION IDENTICAL TO SECTION T (1.65) - PARADISE WASH  ***
*****************************************************************
```

.160	4.01	1800.01	1799.62	1800.00	1800.70	.69	.00	.00	1798.00
5763.0	3099.1	2662.9	1.0	566.5	341.6	.8	.0	.0	1798.00
.00	5.47	7.80	1.29	.053	.050	.065	.000	1796.00	9915.66
.013685	600.	625.	640.	0	7	0	.00	502.34	10418.00

FLOW DISTRIBUTION FOR SECNO= .16 CWSEL= 1800.01

	9916.	9924.	9986.	10011.	10020.	10250.	10316.	10418.	10418.
R Q=	.5	23.5	15.0	3.3	10.9	.6	46.2	.0
AREA=	8.5	187.2	98.6	26.4	232.9	12.9	341.6	.8
VEL=	3.4	7.2	8.8	7.1	2.7	2.6	7.8	1.3
DEPTH=	1.0	3.0	4.0	3.0	1.0	.2	3.4	2.0

CCHV= .600 CEHV= .900
*SECNO .250

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .51

3470 ENCROACHMENT STATIONS= 9987.0 10165.0 TYPE= 1 TARGET= 178.000

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************************************
***  PARADISE WASH WEST BRANCH  ***
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.250	5.50	1805.20	1803.13	1804.60	1805.30	.09	4.24	.36	1802.00
1023.0	.0	636.7	386.3	.0	220.1	257.2	8.3	4.2	1802.00
.06	.00	2.89	1.50	.000	.055	.065	.000	1799.70	9987.00
.001661	585.	495.	445.	3	9	0	.00	178.00	10165.00

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=       .25          CWSEL=   1805.20

STA=    9987.   10035.   10136.   10165.
  PER Q=     62.2     34.3      3.5
   AREA=    220.1    222.4     34.8
    VEL=      2.9      1.6      1.0
  DEPTH=      4.6      2.2      1.2

*SECNO  .320

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .43


3470 ENCROACHMENT STATIONS=     9870.0   10105.0  TYPE=      1  TARGET=      235.000
      .320      4.25   1806.25   1805.82   1806.11   1806.49       .23      1.07       .12   1804.00
    1023.0     483.7     358.0     181.3     178.1      65.2      78.2      11.3       5.8   1804.00
       .09      2.72      5.49      2.32      .065      .055      .065      .000   1802.00   9870.00
   .008855      340.      330.      320.         3        19         0       .00    235.00  10105.00


FLOW DISTRIBUTION FOR SECNO=       .32          CWSEL=   1806.25

      9870.    9995.   10015.   10070.   10105.
  PER Q=     47.3     35.0     17.0       .8
   AREA=    178.1     65.2     69.2      9.0
    VEL=      2.7      5.5      2.5       .9
  DEPTH=      1.4      3.3      1.3       .3

*SECNO  .340

3470 ENCROACHMENT STATIONS=     9905.0   10160.0  TYPE=      1  TARGET=      255.000
         ***************************************************************
         ***  JUST DOWNSTREAM OF 4-48"X70 RCP'S WITH HEADWALLS
         ***            BENEATH CAREFREE HIGHWAY
         ***************************************************************
      .340      4.15   1807.15   1807.05   1807.13   1807.47       .32       .91       .07   1804.00
    1023.0     323.0     327.7     372.2     108.3      51.1     108.0      12.0       6.2   1804.00
       .09      2.98      6.41      3.45      .065      .055      .065      .000   1803.00   9905.00
   .010285       95.       95.       95.         2        12         0       .00    182.52  10087.52
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=       .34          CWSEL=   1807.15

STA=    9905.    9970.    9998.   10012.   10053.   10088.
  PER Q=      8.9     22.7     32.0     33.3      3.1
   AREA=     48.1     60.2     51.1     88.2     19.9
    VEL=      1.9      3.9      6.4      3.9      1.6
  DEPTH=       .7      2.2      3.7      2.2       .6


SPECIAL CULVERT

SC  CUNO      CUNV      ENTLC     COFQ      RDLEN     RISE      SPAN      CULVLN    CHRT      SCL       ELCHU     ELCHD
    4          .012      .50      3.10       .00      4.00       .00     68.00      1         1       1803.50   1803.00

CHART  1 - CONCRETE PIPE CULVERT; NO BEVELED RING ENTRANCE
SCALE  1 - SQUARE EDGE ENTRANCE WITH HEADWALL

5130, EGIC= 1822.65..MAY BE TOO LARGE IF INLET CONTROLS.
5135, EGOC= 1818.64 ..MAY BE TOO LARGE IF OUTLET CONTROLS.
*SECNO  .350
BTCARD, BRIDGE STENCL=    9925.00   STENCR=   10190.00
3280 CROSS SECTION       .35 EXTENDED       .37 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.56

SPECIAL CULVERT

    EGIC      EGOC       H4     QWEIR     QCULV      VCH     ACULV    ELTRD    WEIRLN
  1822.65   1818.64     2.96      497.      520.    2.493      50.3  1809.13      265.


3470 ENCROACHMENT STATIONS=     9925.0   10190.0  TYPE=      1  TARGET=      265.000
         ************************************************************
         ***  JUST UPSTREAM OF 4-48"X70' RCP'S WITH HEADWALLS
         ***            BENEATH CAREFREE HIGHWAY
         ************************************************************
     .350      6.87   1810.37       .00   1809.35   1810.42       .05      2.96       .00   1806.00
   1023.0     156.8     353.6     512.6     142.8     141.9     435.7      12.8       6.6   1806.00
     .10      1.10      2.49      1.18      .065      .055      .065      .000   1803.50   9925.00
  .000813      75.       68.       72.         2         0         0       .00    265.00  10190.00


FLOW DISTRIBUTION FOR SECNO=       .35          CWSEL=   1810.37
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9925.    9983.    9990.   10011.   10022.   10178.   10190.
  PER Q=     12.0      3.3     34.6      5.3     42.0      2.8
   AREA=    119.1     23.6    141.9     37.1    370.4     28.2
    VEL=      1.0      1.4      2.5      1.5      1.2      1.0
  DEPTH=      2.1      3.4      6.8      3.4      2.4      2.4

*SECNO  .360
3280 CROSS SECTION       .36 EXTENDED       .43 FEET


3470 ENCROACHMENT STATIONS=     9925.0   10175.0  TYPE=      1  TARGET=      250.000
      .360      4.43   1810.43   1808.29   1809.49   1810.47       .04       .04       .00   1808.00
    1023.0      48.1     692.4     282.5      45.9     375.8     265.3      13.7       6.9   1808.00
       .11      1.05      1.84      1.06      .065      .055      .065      .000   1806.00   9925.00
   .000797       55.       55.       55.         2        17         0       .00    250.00  10175.00


FLOW DISTRIBUTION FOR SECNO=       .36          CWSEL=   1810.43

STA=    9925.    9945.   10045.   10120.   10175.
  PER Q=      4.7     67.7     20.8      6.9
   AREA=     45.9    375.8    182.1     83.1
    VEL=      1.0      1.8      1.2       .8
  DEPTH=      2.3      3.8      2.4      1.5

*SECNO  .410

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .31


3470 ENCROACHMENT STATIONS=     9950.0   10023.0  TYPE=      1  TARGET=       73.000
      .410      4.91   1810.91   1809.97   1810.31   1811.30       .38       .52       .31   1808.00
    1023.0     336.9     686.1        .0      91.5     124.9        .0      16.8       8.1 100000.00
       .13      3.68      5.50       .00      .065      .055      .000      .000   1806.00   9950.00
   .008343       255.      265.      381.         2        10         0       .00     73.00  10023.00


FLOW DISTRIBUTION FOR SECNO=       .41          CWSEL=   1810.91

STA=    9950.    9987.   10023.
  PER Q=     32.9     67.1
   AREA=     91.5    124.9
    VEL=      3.7      5.5
  DEPTH=      2.5      3.5
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .300 CEHV=     .500
*SECNO  .490

3470 ENCROACHMENT STATIONS=     9981.0   10050.0  TYPE=      1  TARGET=      69.000
      .490      5.31   1814.11   1812.91   1814.03   1814.47       .36      3.17       .01   1810.00
    1023.0     132.6     376.2     514.1      37.4      61.3     132.5      18.9       8.8   1810.00
      .15      3.55      6.14      3.88      .065      .055      .065      .000   1808.80   9981.00
   .006681      370.      420.      488.         4        12         0       .00     69.00  10050.00


FLOW DISTRIBUTION FOR SECNO=      .49         CWSEL=   1814.11

STA=    9981.    9993.   10006.   10046.   10050.
  PER Q=     13.0     36.8     48.5      1.8
   AREA=     37.4     61.3    124.6      8.0
    VEL=      3.5      6.1      4.0      2.3
  DEPTH=      3.1      4.7      3.1      2.0

*SECNO  .590

3470 ENCROACHMENT STATIONS=     9962.0   10050.0  TYPE=      1  TARGET=      88.000
      .590      3.94   1817.64   1816.75   1817.26   1817.99       .35      3.51       .00   1814.00
    1023.0     225.0     465.0     333.0      60.8      79.7      95.3      21.5       9.6   1814.00
      .18      3.70      5.84      3.50      .065      .055      .065      .000   1813.70   9962.00
   .007891      548.      496.      446.         2        11         0       .00     88.00  10050.00


FLOW DISTRIBUTION FOR SECNO=      .59         CWSEL=   1817.64

STA=    9962.    9985.   10006.   10032.   10050.
  PER Q=     22.0     45.5     26.0      6.5
   AREA=     60.8     79.7     68.7     26.5
    VEL=      3.7      5.8      3.9      2.5
  DEPTH=      2.6      3.8      2.6      1.5

*SECNO  .680
3280 CROSS SECTION      .68 EXTENDED      .27 FEET


3470 ENCROACHMENT STATIONS=     9977.4   10055.0  TYPE=      1  TARGET=      77.600
      .680      4.27   1822.27   1821.55   1821.48   1822.74       .47      4.69       .06   1820.00
    1023.0      43.0     544.8     435.2      14.1      85.1     101.7      24.0      10.5   1820.00
      .21      3.04      6.40      4.28      .065      .055      .065      .000   1818.00   9977.40
   .011734      494.      502.      480.         4        15         0       .00     77.60  10055.00
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ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .68 CWSEL= 1822.27

STA=	9977.	9987.	10013.	10022.	10027.	10055.
PER Q=	4.2	53.3	7.9	4.4	30.2	
AREA=	14.1	85.1	19.6	10.9	71.3	
VEL=	3.0	6.4	4.2	4.2	4.3	
DEPTH=	1.5	3.3	2.2	2.2	2.5	

*SECNO .750

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.71

3470 ENCROACHMENT STATIONS= 9930.0 10060.0 TYPE= 1 TARGET= 130.000

.750	3.68	1824.98	1823.54	1824.03	1825.11	.13	2.27	.10	1822.00
1023.0	509.6	164.9	348.5	179.5	43.3	134.1	26.2	11.4	1822.00
.24	2.84	3.81	2.60	.065	.055	.065	.000	1821.30	9930.00
.004036	297.	358.	392.	3	11	0	.00	130.00	10060.00

FLOW DISTRIBUTION FOR SECNO= .75 CWSEL= 1824.98

	9930.	9993.	10006.	10060.
R Q=	49.8	16.1	34.1	
AREA=	179.5	43.3	134.1	
VEL=	2.8	3.8	2.6	
DEPTH=	2.8	3.3	2.5	

*SECNO .840

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .54

3470 ENCROACHMENT STATIONS= 9982.0 10149.0 TYPE= 1 TARGET= 167.000

.840	2.49	1827.89	1827.44	1827.86	1828.16	.27	2.98	.07	1826.00
1023.0	22.9	1000.1	.0	9.0	239.7	.0	29.3	12.9	100000.00
.27	2.55	4.17	.00	.065	.055	.000	.000	1825.40	9983.51
.013685	393.	463.	435.	3	11	0	.00	165.49	10149.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .84 CWSEL= 1827.89

STA=	9984.	9993.	10149.
PER Q=	2.2	97.8	
AREA=	9.0	239.7	
VEL=	2.5	4.2	
DEPTH=	.9	1.5	

*SECNO .920

3470 ENCROACHMENT STATIONS= 9934.4 10042.0 TYPE= 1 TARGET= 107.600

.920	4.27	1833.27	1832.60	1832.77	1833.62	.35	5.41	.04	1830.00
1023.0	376.4	337.2	309.5	104.9	52.8	81.7	31.9	14.3	1830.00
.30	3.59	6.39	3.79	.065	.055	.065	.000	1829.00	9934.40
.009671	412.	463.	603.	5	14	0	.00	107.60	10042.00

FLOW DISTRIBUTION FOR SECNO= .92 CWSEL= 1833.27

STA=	9934.	9953.	9992.	10006.	10042.
PER Q=	3.3	33.5	33.0	30.2	
AREA=	16.4	88.5	52.8	81.7	
VEL=	2.0	3.9	6.4	3.8	
DEPTH=	.9	2.3	3.8	2.3	

*SECNO 1.020

3470 ENCROACHMENT STATIONS= 9977.4 10050.0 TYPE= 1 TARGET= 72.600

1.020	4.86	1837.56	1836.53	1837.13	1837.98	.41	4.33	.03	1834.00
1023.0	99.5	476.7	446.8	29.4	75.9	111.8	34.5	15.4	1834.00
.33	3.38	6.28	3.99	.065	.055	.065	.000	1832.70	9977.40
.008062	530.	500.	457.	4	15	0	.00	72.60	10050.00

FLOW DISTRIBUTION FOR SECNO= 1.02 CWSEL= 1837.56

STA=	9977.	9984.	9993.	10011.	10050.
PER Q=	1.2	8.5	46.6	43.7	
AREA=	6.4	23.1	75.9	111.8	
VEL=	1.9	3.8	6.3	4.0	
DEPTH=	1.0	2.6	4.2	2.9	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.110

3470 ENCROACHMENT STATIONS= 9974.8 10050.0 TYPE= 1 TARGET= 75.200

1.110	4.48	1841.48	1840.59	1841.39	1841.93	.45	3.94	.02	1838.00
1023.0	74.4	600.8	347.9	22.3	95.6	91.9	36.8	16.2	1838.00
.35	3.33	6.28	3.78	.065	.055	.065	.000	1837.00	9975.32
.008600	508.	494.	437.	3	19	0	.00	74.68	10050.00

FLOW DISTRIBUTION FOR SECNO= 1.11 CWSEL= 1841.48

STA=	9975.	9982.	9989.	10013.	10050.
PER Q=	.8	6.4	58.7	34.0	
AREA=	5.0	17.4	95.6	91.9	
VEL=	1.7	3.8	6.3	3.8	
DEPTH=	.7	2.5	4.0	2.5	

*SECNO 1.190

3470 ENCROACHMENT STATIONS= 9940.0 10030.0 TYPE= 1 TARGET= 90.000

1.190	4.50	1844.80	1843.96	1844.63	1845.14	.34	3.18	.03	1842.00
1023.0	360.0	551.3	111.8	107.4	98.6	34.5	38.8	16.9	1842.00
.38	3.35	5.59	3.24	.065	.055	.065	.000	1840.30	9940.00
.007695	350.	386.	442.	2	14	0	.00	90.00	10030.00

FLOW DISTRIBUTION FOR SECNO= 1.19 CWSEL= 1844.80

STA=	9940.	9988.	10015.	10030.
PER Q=	35.2	53.9	10.9	
AREA=	107.4	98.6	34.5	
VEL=	3.4	5.6	3.2	
DEPTH=	2.2	3.7	2.3	

*SECNO 1.260

3470 ENCROACHMENT STATIONS= 9950.0 10030.0 TYPE= 1 TARGET= 80.000

1.260	4.25	1848.45	1847.63	1848.24	1848.87	.42	3.68	.04	1846.00
1023.0	294.7	633.8	94.5	75.9	107.1	30.0	41.0	17.7	1846.00
.40	3.89	5.92	3.15	.065	.055	.065	.000	1844.20	9950.00
.009667	474.	417.	351.	3	19	0	.00	80.00	10030.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.26 CWSEL= 1848.45

STA=	9950.	9972.	9981.	10013.	10030.
PER Q=	20.0	8.8	62.0	9.2	
AREA=	53.8	22.0	107.1	30.0	
VEL=	3.8	4.1	5.9	3.1	
DEPTH=	2.4	2.4	3.3	1.8	

*SECNO 1.330

3470 ENCROACHMENT STATIONS= 9982.0 10040.0 TYPE= 1 TARGET= 58.000

1.330	4.99	1851.59	1850.76	1851.41	1852.21	.62	3.24	.10	1848.00
1023.0	75.0	701.9	246.1	20.6	98.7	59.6	42.5	18.3	1848.00
.42	3.64	7.11	4.13	.065	.055	.065	.000	1846.60	9982.00
.010045	297.	322.	392.	2	8	0	.00	58.00	10040.00

FLOW DISTRIBUTION FOR SECNO= 1.33 CWSEL= 1851.59

STA=	9982.	9988.	9994.	10017.	10040.
PER Q=	1.0	6.4	68.6	24.1	
AREA=	5.1	15.6	98.7	59.6	
VEL=	2.0	4.2	7.1	4.1	
DEPTH=	.8	2.6	4.3	2.6	

THIS RUN EXECUTED 22JUN92 16:33:42

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1991
****

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

6-22-92PARADISE WASH WE

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	.160	.00	.00	.00	1796.00	5763.00	1800.00	1799.59	1800.55	117.74	7.22	1085.48	531.11
	.160	.00	.00	.00	1796.00	5763.00	1800.01	1799.62	1800.70	136.85	7.80	908.90	492.64
*	.250	495.00	.00	.00	1799.70	1023.00	1804.60	1803.15	1804.67	17.05	2.78	728.00	247.74
*	.250	495.00	.00	.00	1799.70	1023.00	1805.20	1803.13	1805.30	16.61	2.89	477.27	251.02
*	.320	330.00	.00	.00	1802.00	1023.00	1806.11	1806.11	1806.38	117.08	6.13	355.13	94.55
*	.320	330.00	.00	.00	1802.00	1023.00	1806.25	1805.82	1806.49	88.55	5.49	321.54	108.71
	.340	95.00	.00	.00	1803.00	1023.00	1807.13	1807.02	1807.33	79.40	5.62	357.86	114.81
	.340	95.00	.00	.00	1803.00	1023.00	1807.15	1807.05	1807.47	102.85	6.41	267.44	100.88
*	.350	68.00	1808.50	1807.50	1803.50	1023.00	1809.35	.00	1809.42	16.87	3.22	788.24	249.07
*	.350	68.00	1809.13	1807.50	1803.50	1023.00	1810.37	.00	1810.42	8.13	2.49	720.35	358.71
	.360	55.00	.00	.00	1806.00	1023.00	1809.49	1808.35	1809.52	12.78	1.93	861.55	286.11
	.360	55.00	.00	.00	1806.00	1023.00	1810.43	1808.29	1810.47	7.97	1.84	687.03	362.42
*	.410	265.00	.00	.00	1806.00	1023.00	1810.31	1810.03	1810.78	140.80	6.39	218.19	86.21
*	.410	265.00	.00	.00	1806.00	1023.00	1810.91	1809.97	1811.30	83.43	5.50	216.32	112.00
*	.490	420.00	.00	.00	1808.80	1023.00	1814.03	1812.93	1814.24	51.08	5.30	314.89	143.13
	.490	420.00	.00	.00	1808.80	1023.00	1814.11	1812.91	1814.47	66.81	6.14	231.16	125.16
	.590	496.00	.00	.00	1813.70	1023.00	1817.26	1816.94	1817.57	95.06	5.98	287.42	104.93
	.590	496.00	.00	.00	1813.70	1023.00	1817.64	1816.75	1817.99	78.91	5.84	235.76	115.16
	.680	502.00	.00	.00	1818.00	1023.00	1821.48	1820.81	1821.61	70.81	4.14	392.87	121.57
	.680	502.00	.00	.00	1818.00	1023.00	1822.27	1821.55	1822.74	117.34	6.40	200.97	94.44
	.750	358.00	.00	.00	1821.30	1023.00	1824.03	1823.31	1824.15	72.72	4.10	388.01	119.96
*	.750	358.00	.00	.00	1821.30	1023.00	1824.98	1823.54	1825.11	40.36	3.81	356.87	161.03

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	.840	463.00	.00	.00	1825.40	1023.00	1827.86	1827.34	1828.05	111.04	3.73	300.21	97.08
*	.840	463.00	.00	.00	1825.40	1023.00	1827.89	1827.44	1828.16	136.85	4.17	248.66	87.45
	.920	463.00	.00	.00	1829.00	1023.00	1832.77	1832.36	1832.97	86.48	5.50	342.59	110.00
	.920	463.00	.00	.00	1829.00	1023.00	1833.27	1832.60	1833.62	96.71	6.39	239.29	104.03
	1.020	500.00	.00	.00	1832.70	1023.00	1837.13	1836.61	1837.51	98.73	6.48	243.87	102.95
	1.020	500.00	.00	.00	1832.70	1023.00	1837.56	1836.53	1837.98	80.62	6.28	217.14	113.93
	1.110	494.00	.00	.00	1837.00	1023.00	1841.39	1840.66	1841.78	83.52	6.09	237.51	111.94
	1.110	494.00	.00	.00	1837.00	1023.00	1841.48	1840.59	1841.93	86.00	6.28	209.88	110.31
	1.190	386.00	.00	.00	1840.30	1023.00	1844.63	1844.06	1844.91	74.55	5.33	289.78	118.48
	1.190	386.00	.00	.00	1840.30	1023.00	1844.80	1843.96	1845.14	76.95	5.59	240.50	116.62
	1.260	417.00	.00	.00	1844.20	1023.00	1848.24	1847.54	1848.59	96.68	5.66	237.44	104.04
	1.260	417.00	.00	.00	1844.20	1023.00	1848.45	1847.63	1848.87	96.67	5.92	212.98	104.04
	1.330	322.00	.00	.00	1846.60	1023.00	1851.41	1850.87	1851.94	101.04	6.93	209.35	101.77
	1.330	322.00	.00	.00	1846.60	1023.00	1851.59	1850.76	1852.21	100.45	7.11	179.00	102.07

-92PARADISE WASH WE

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	.160	5763.00	1800.00	.00	.00	.00	630.76	.00
	.160	5763.00	1800.01	.01	.00	.01	502.34	.00
*	.250	1023.00	1804.60	.00	4.60	.00	763.82	495.00
*	.250	1023.00	1805.20	.60	5.19	.60	178.00	495.00
*	.320	1023.00	1806.11	.00	1.51	.00	812.41	330.00
*	.320	1023.00	1806.25	.14	1.05	.14	235.00	330.00
	.340	1023.00	1807.13	.00	1.02	.00	345.34	95.00
	.340	1023.00	1807.15	.02	.90	.02	182.52	95.00
*	.350	1023.00	1809.35	.00	2.22	.00	834.28	68.00
*	.350	1023.00	1810.37	1.02	3.22	1.02	265.00	68.00
	.360	1023.00	1809.49	.00	.13	.00	723.89	55.00
	.360	1023.00	1810.43	.94	.05	.94	250.00	55.00
*	.410	1023.00	1810.31	.00	.82	.00	149.15	265.00
*	.410	1023.00	1810.91	.60	.48	.60	73.00	265.00
	.490	1023.00	1814.03	.00	3.71	.00	167.43	420.00
	.490	1023.00	1814.11	.09	3.20	.09	69.00	420.00
	.590	1023.00	1817.26	.00	3.23	.00	248.68	496.00
	.590	1023.00	1817.64	.38	3.52	.38	88.00	496.00
	.680	1023.00	1821.48	.00	4.22	.00	287.18	502.00
	.680	1023.00	1822.27	.79	4.64	.79	77.60	502.00
	.750	1023.00	1824.03	.00	2.55	.00	283.08	358.00
*	.750	1023.00	1824.98	.95	2.71	.95	130.00	358.00
	.840	1023.00	1827.86	.00	3.82	.00	227.57	463.00
*	.840	1023.00	1827.89	.04	2.92	.04	165.49	463.00
	.920	1023.00	1832.77	.00	4.91	.00	267.43	463.00
	.920	1023.00	1833.27	.50	5.37	.50	107.60	463.00
	1.020	1023.00	1837.13	.00	4.36	.00	146.90	500.00
	1.020	1023.00	1837.56	.43	4.30	.43	72.60	500.00
	1.110	1023.00	1841.39	.00	4.26	.00	124.25	494.00
	1.110	1023.00	1841.48	.10	3.92	.10	74.68	494.00
	1.190	1023.00	1844.63	.00	3.24	.00	166.72	386.00
	1.190	1023.00	1844.80	.17	3.32	.17	90.00	386.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1.260	1023.00	1848.24	.00	3.60	.00	124.62	417.00
1.260	1023.00	1848.45	.21	3.65	.21	80.00	417.00
1.330	1023.00	1851.41	.00	3.17	.00	115.53	322.00
1.330	1023.00	1851.59	.19	3.14	.19	58.00	322.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=      .250  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .250  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .320  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .320  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=      .320  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .350  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .350  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .410  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .410  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .490  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .750  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .840  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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Hwy width summary: 6-22-92PARADISE WASH WE
Profile No. 2

Section Number	Elevation Increase	Top Width	Left Encroach Station	Left Sta Distance From Center	Center Station	Right Sta Distance From Center	Right Encroach Station
.160	.01	503.00	9915.00	451.83	10366.83	51.17	10418.00
.250	.60	178.00	9987.00	24.00	10011.00	154.00	10165.00
.320	.14	235.00	9870.00	135.00	10005.00	100.00	10105.00
.340	.02	255.00	9905.00	100.00	10005.00	155.00	10160.00
.350	1.02	265.00	9925.00	75.50	10000.50	189.50	10190.00
.360	.94	250.00	9925.00	70.00	9995.00	180.00	10175.00
.410	.60	73.00	9950.00	55.00	10005.00	18.00	10023.00
.490	.09	69.00	9981.00	18.50	9999.50	50.50	10050.00
.590	.38	88.00	9962.00	33.50	9995.50	54.50	10050.00
.680	.79	77.60	9977.40	22.60	10000.00	55.00	10055.00
.750	.95	130.00	9930.00	69.50	9999.50	60.50	10060.00
.840	.04	167.00	9982.00	89.00	10071.00	78.00	10149.00
.920	.50	107.60	9934.40	64.60	9999.00	43.00	10042.00
1.020	.43	72.60	9977.40	24.60	10002.00	48.00	10050.00
1.110	.10	75.20	9974.80	26.20	10001.00	49.00	10050.00
1.190	.17	90.00	9940.00	61.50	10001.50	28.50	10030.00
1.260	.21	80.00	9950.00	47.00	9997.00	33.00	10030.00
1.330	.19	58.00	9982.00	23.50	10005.50	34.50	10040.00

RANIERI TANK WASH

THIS RUN EXECUTED 22JUN92 16:41:56

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.0;  February 1991
************************************


THIS IS AN ARCHIVAL RUN ALL DATA AND RESULTS ARE SAVED ON UNIT   96

AC
AC AERIAL MAPPING:  KENNEY AERIAL MAPPING CO. -- DATE  JULY-NOV. 1990
AC                  1130 W. FILLMORE PHX. AZ. 85007
AC                  PHONE (602) 258-6471   ELLIS HYDE
AC
AC SURVEY CONTROL:  McCUEN GPS INC. -- DATE  JUNE 1990
AC                  8948 W. CALLE LEJOS PEORIA AZ.
AC                  PHONE (602) 995-8445   GLEN McCUEN R.L.S.
AC
AC HYDROLOGY & FIS: JERRY R. JONES & ASSOC. -- DATE FEB 89-JUNE 91
AC                  2929 E. CAMELBACK ROAD
AC                  PHX. AZ. 85016
AC                  PHONE (602) 956-9850   ROGER BAELE P.E.
AC
AC                  FILE:  RANI.DAT
AC
AC                  RANIERI TANK WASH

T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME:  RANI.DAT     JJA NO. 290-018
T3 REV.  6-22-92 RANIERI TANK WASH -- 100 YEAR FLOW WITHOUT ENCROACHMENT

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        5        0        0        0        0        0      4179   1832.36     0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0       -1        0        0        0       -1        0        0        15


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    115       150       200

NC    0.065     0.065     0.050       0.6       0.9
QT        1      4179                          4179
ET                 3.1    9979.4   10161.62
                ****************************************************
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SAME CROSS SECTION AND 2.23 IN PARADISE WASH
CONFUENCE OF PARADISE WASH AND RANIERI TANK WASH
****

X1	2.23	17	9979.43	10023.07						
GR	1844.0	9000.00	1844.00	9114.42	1842.00	9451.06	1840.00	9689.56	1838.00	9803.45
GR	1836.0	9879.99	1834.00	9916.62	1832.00	9941.49	1830.00	9962.82	1828.00	9979.43
GR	1826.0	9994.11	1826.00	10007.33	1828.00	10023.07	1830.00	10034.76	1832.00	10373.00
GR	1832	10480	1834	10620						
QT	1	2348			2348					
ET		3.1	9960	10150.5						
X1	0.09	12	9960	10020	400	460	420			
GR	1840	9840	1838	9880	1836	9910	1834	9940	1832	9960
GR	1830	9980	1830	10010	1832	10020	1834	10120	1836	10370
GR	1838	10435	1840	10560						
ET		3.1	9962	10064.3						
X1	0.17	13	9985.90	10036.12	455	395	435			
GR	1848.0	9617	1848.00	9617.80	1846.00	9720.34	1844.00	9785.23	1842.00	9839.52
GR	1840.0	9888.58	1838.00	9914.71	1836.00	9985.90	1834.3	10000	1834.3	10030
GR	1836	10036.12	1838	10110	1840	10260				
ET		3.1	9906	10027.7						
X1	0.24	16	9973.21	10007.67	350	360	355			
GR	1850.0	9574	1850.00	9574.42	1848.00	9654.83	1846.00	9711.58	1844.00	9767.74
GR	1842.0	9816.62	1840.00	9891.06	1838.00	9973.21	1836.00	9991.74	1836.00	9996.61
GR	1838.0	10007.67	1840.00	10018.65	1842.00	10029.23	1844.00	10059.41	1846.00	10201.63
GR	1846.0	10232.22								
ET		3.1	9937.6	10057.2						
X1	0.33	19	9937.57	10029.76	475	480	495			
GR	1854.0	9593	1854.00	9593.71	1854.00	9594.31	1852.00	9683.29	1852.00	9683.30
GR	1850.0	9758.06	1850.00	9758.12	1848.00	9834.13	1848.00	9844.57	1848.00	9848.26
GR	1846.0	9892.95	1844.00	9937.57	1842.00	9981.38	1842.00	10013.18	1844.00	10029.76
GR	1846.0	10199.04	1848.00	10249.57	1850.00	10365.59	1852.00	10424.90		
ET		3.1	9994.6	10156.7						
X1	0.44	27	9994.56	10030	570	570	570			
GR	1858.0	9615	1858.00	9615.31	1856.00	9781.41	1856.00	9781.50	1854.00	9890.55
GR	1854.0	9890.62	1852.00	9951.64	1852.00	9951.65	1850.00	9994.56	1848.8	10005
GR	1850	10030	1848.0	10140.44	1848.00	10140.44	1848.00	10147.76	1848.00	10147.78
GR	1850.0	10190.77	1850.0	10190.77	1852.00	10238.51	1852.00	10238.57	1854.00	10287.76
GR	1854.0	10287.80	1856.0	10342.87	1856.00	10342.87	1858.00	10438.90	1858.00	10438.90
GR	1860.0	10488.69	1860.0	10488.70						
ET		3.1	9948.7	10087						
X1	0.51	14	9948.73	10087.01	385	415	400			
GR	1860.0	9700	1860.00	9700.93	1858.00	9861.94	1856.00	9906.14	1854.00	9948.73
GR	1852.0	9992.58	1852.00	10004.63	1852.00	10036.02	1852.00	10041.08	1854.00	10087.01
GR	1856.0	10168.01	1858.00	10235.95	1860.00	10328.21	1862.00	10432.48		

ET		3.1	9951	10100						
X1	0.61	12	9989.46	10012	530	440	495			
GR	1868.0	9587	1868.00	9587.72	1866.00	9723.35	1864.00	9787.98	1862.00	9860.27
GR	1860.0	9894.49	1858.00	9989.46	1856.4	10000	1858	10012	1860	10150.02
GR	1862	10359.37	1864	10470.53						
ET		3.1	9920	10040						
X1	0.70	13	9968.58	10020.84	505	490	475			
GR	1872.0	9585	1872.00	9585.94	1870.00	9646.98	1868.00	9738.44	1866.00	9809.50
GR	1864.0	9878.59	1862.00	9968.58	1860.00	9994.70	1860.00	9997.93	1862.00	10020.84
GR	1864.0	10051.12	1866.00	10097.19	1868.00	10412.69				
ET		3.1	9938.9	10086						
X1	0.80	15	9994.57	10044	485	550	520			
GR	1874.0	9651	1874.00	9651.94	1872.00	9751.71	1870.00	9809.16	1868.00	9854.98
GR	1866.0	9994.57	1864.1	10000	1866	10044	1868	10143	1870	10215
GR	1872	10242	1874	10280	1876	10338	1878	10408	1880.00	10493
ET		3.1	9953	10074						
X1	0.88	17	9983.28	10043.80	370	380	380			
GR	1880.0	9639	1880.00	9639.32	1878.00	9768.51	1876.00	9839.77	1874.00	9902.82
GR	1872.0	9951.54	1870.00	9983.28	1868.00	9995.97	1868.00	10006.87	1870.00	10043.80
GR	1872.0	10110.73	1874.00	10131.39	1876.00	10169.08	1878.00	10231.05	1880.00	10354.52
GR	1882.0	10470.11	1882.00	10488.77						
ET		3.1	9979	10083.9						
X1	0.98	14	9981.78	10053.65	550	560	550			
GR	1884.0	9608	1884.00	9608.54	1882.00	9785.31	1880.00	9888.28	1878.00	9935.60
GR	1876.0	9981.78	1874.00	9995.92	1874.00	10007.02	1876.00	10053.65	1878.00	10140.53
GR	1880.0	10190.35	1882.00	10243.68	1884.00	10328.00	1886.00	10445.83		
ET		3.1	9970	10121.7						
X1	1.05	13	9986.73	10038.09	370	360	365			
GR	1886.0	9840	1886.00	9840.39	1884.00	9914.28	1882.00	9956.49	1880.00	9986.73
GR	1878.0	10000.53	1878.00	10007.97	1880.00	10038.09	1882.00	10174.39	1884.00	10236.35
GR	1886.0	10298.12	1888.00	10396.82	1890.00	10489.48				
ET		3.1	10000	10135						
X1	1.12	15	10066.79	10091.82	440	300	380			
GR	1894.0	9503	1894.00	9503.64	1892.00	9624.86	1890.00	9745.61	1888.00	9854.77
GR	1886.0	9933.70	1884.00	9975.21	1884.00	10007.36	1884.00	10066.79	1882.00	10075.75
GR	1882.0	10077.25	1884.00	10091.82	1886.00	10147.41	1888.00	10240.71	1890.00	10376.03
ET		3.1	9926.7	10140						
X1	1.20	12	9926.75	10083.14	340	430	380			
GR	1894.0	9553	1894.00	9553.94	1892.00	9764.71	1890.00	9926.75	1890.00	10005.20
GR	1890.0	10055.13	1888.00	10062.19	1888.00	10064.16	1890.00	10083.14	1892.00	10157.17
GR	1894.0	10262.16	1896.00	10416.01						

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .600 CEHV= .900
*SECNO 2.230
3720 CRITICAL DEPTH ASSUMED

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  SAME CROSS SECTION AND 2.23 IN PARADISE WASH
  CONFUENCE OF PARADISE WASH AND RANIERI TANK WASH
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2.230	6.41	1832.41	1832.41	1832.36	1833.16	.75	.00	.00	1828.00
4179.0	362.2	2255.3	1561.6	87.7	249.2	565.8	.0	.0	1828.00
.00	4.13	9.05	2.76	.065	.050	.065	.000	1826.00	9936.41
.009151	0.	0.	0.	0	4	0	.00	572.18	10508.59

FLOW DISTRIBUTION FOR SECNO= 2.23 CWSEL= 1832.41

STA=	9936.	9941.	9963.	9979.	10023.	10035.	10373.	10480.	10509.
PER Q=	.0	2.0	6.7	54.0	4.7	31.3	1.3	.1	
AREA=	1.0	30.0	56.6	249.2	39.8	476.4	43.7	5.8	
VEL=	.8	2.7	4.9	9.0	4.9	2.7	1.2	.8	
DEPTH=	.2	1.4	3.4	5.7	3.4	1.4	.4	.2	

*SECNO .090

3301 HV CHANGED MORE THAN HVINS

.090	5.63	1835.63	1834.17	.00	1835.85	.23	2.37	.32	1832.00
2348.0	141.0	1430.5	776.5	72.3	307.5	427.3	8.7	5.1	1832.00
.03	1.95	4.65	1.82	.065	.050	.065	.000	1830.00	9915.64
.002792	400.	420.	460.	2	14	0	.00	407.40	10323.03

FLOW DISTRIBUTION FOR SECNO= .09 CWSEL= 1835.63

STA=	9916.	9940.	9960.	10020.	10120.	10323.
PER Q=	.9	5.1	60.9	25.7	7.4	
AREA=	19.8	52.5	307.5	262.4	164.9	
VEL=	1.1	2.3	4.7	2.3	1.1	
DEPTH=	.8	2.6	5.1	2.6	.8	

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .170

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      .170      4.09   1838.39   1838.39       .00   1839.27       .88      2.32       .59   1836.00
    2348.0     345.0    1640.5     362.5     100.0     188.2     108.5      14.5       8.1   1836.00
       .05      3.45      8.72      3.34      .065      .050      .065      .000   1834.30   9909.61
   .014898      455.      435.      395.         0        19         0       .00    229.69  10139.30


FLOW DISTRIBUTION FOR SECNO=       .17          CWSEL=   1838.39

STA=    9910.    9915.    9986.   10036.   10110.   10139.
  PER Q=       .0     14.7     69.9     15.2       .2
   AREA=      1.0     99.0    188.2    102.7      5.7
    VEL=       .9      3.5      8.7      3.5       .9
  DEPTH=       .2      1.4      3.7      1.4       .2

*SECNO  .240

WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.68

      .240      6.09   1842.09   1841.01       .00   1842.49       .40      2.94       .29   1838.00
    2348.0    1040.7    1168.5     138.8     335.9     180.5      45.6      18.4       9.9   1838.00
       .07      3.10      6.47      3.04      .065      .050      .065      .000   1836.00   9814.29
   .005277      350.      355.      360.         3        11         0       .00    216.38  10030.67


FLOW DISTRIBUTION FOR SECNO=       .24          CWSEL=   1842.09

STA=    9814.    9891.    9973.   10008.   10019.   10029.
  PER Q=      6.1     38.2     49.8      5.1       .9
   AREA=     81.7    254.3    180.5     34.0     11.6
    VEL=      1.8      3.5      6.5      3.5      1.7
  DEPTH=      1.1      3.1      5.2      3.1      1.1

*SECNO  .330
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ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

.330	3.77	1845.77	1845.46	.00	1846.39	.62	3.69	.20	1844.00
2348.0	79.5	1966.5	301.9	34.9	287.1	132.5	24.0	12.7	1844.00
.09	2.28	6.85	2.28	.065	.050	.065	.000	1842.00	9898.10
.011709	475.	495.	480.	3	11	0	.00	281.40	10179.50

FLOW DISTRIBUTION FOR SECNO= .33 CWSEL= 1845.77

STA=	9898.	9938.	10030.	10180.
PER Q=	3.4	83.8	12.9	
AREA=	34.9	287.1	132.5	
VEL=	2.3	6.8	2.3	
DEPTH=	.9	3.1	.9	

*SECNO .440

.440	3.77	1851.77	1850.69	.00	1852.01	.25	5.40	.23	1850.00
2348.0	62.3	390.8	1894.9	33.5	83.9	489.5	31.0	16.3	1850.00
.13	1.86	4.66	3.87	.065	.050	.065	.000	1848.00	9956.64
.007812	570.	570.	570.	4	19	0	.00	276.31	10232.96

FLOW DISTRIBUTION FOR SECNO= .44 CWSEL= 1851.77

STA=	9957.	9995.	10030.	10140.	10148.	10191.	10233.
PER Q=	2.7	16.6	51.8	5.7	20.2	3.0	
AREA=	33.5	83.9	305.6	27.6	119.0	37.3	
VEL=	1.9	4.7	4.0	4.9	4.0	1.9	
DEPTH=	.9	2.4	2.8	3.8	2.8	.9	

*SECNO .510

.510	3.38	1855.38	1854.77	.00	1855.90	.52	3.64	.25	1854.00
2348.0	37.1	2240.3	70.6	20.4	378.0	38.7	35.8	18.6	1854.00
.15	1.82	5.93	1.82	.065	.050	.065	.000	1852.00	9919.29
.010415	385.	400.	415.	3	15	0	.00	223.72	10143.01

FLOW DISTRIBUTION FOR SECNO= .51 CWSEL= 1855.38

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9919.    9949.   10087.   10143.
  PER Q=      1.6     95.4      3.0
   AREA=     20.4    378.0     38.7
    VEL=      1.8      5.9      1.8
  DEPTH=       .7      2.7       .7

*SECNO  .610
      .610      4.50   1860.90   1860.52       .00   1861.27       .37      5.28       .09   1858.00
    2348.0     683.0     626.0    1039.0     187.6      83.4     305.1      41.5      21.9   1858.00
       .18      3.64      7.50      3.41      .065      .050      .065      .000   1856.40   9879.06
   .011276      530.      495.      440.         4        11         0       .00    365.38  10244.43


FLOW DISTRIBUTION FOR SECNO=       .61          CWSEL=   1860.90

STA=    9879.    9894.    9989.   10012.   10150.   10244.
  PER Q=       .4     28.7     26.7     41.7      2.6
   AREA=      7.0    180.6     83.4    262.5     42.6
    VEL=      1.4      3.7      7.5      3.7      1.4
  DEPTH=       .5      1.9      3.7      1.9       .5

*SECNO  .700
      .700      5.18   1865.18   1864.49       .00   1865.64       .46      4.29       .08   1862.00
    2348.0     666.1    1447.2     234.6     220.4     221.7      82.1      47.7      25.3   1862.00
       .21      3.02      6.53      2.86      .065      .050      .065      .000   1860.00   9837.79
   .007050      505.      475.      490.         4         5         0       .00    240.54  10078.33


FLOW DISTRIBUTION FOR SECNO=       .70          CWSEL=   1865.18

STA=    9838.    9879.    9969.   10021.   10051.   10078.
  PER Q=      1.4     27.0     61.6      9.1       .9
   AREA=     24.1    196.3    221.7     66.0     16.1
    VEL=      1.4      3.2      6.5      3.2      1.4
  DEPTH=       .6      2.2      4.2      2.2       .6

*SECNO  .800
      .800      4.77   1868.87   1868.30       .00   1869.17       .30      3.43       .10   1866.00
    2348.0     732.9    1087.4     527.7     270.7     189.1     199.6      54.6      28.7   1866.00
       .24      2.71      5.75      2.64      .065      .050      .065      .000   1864.10   9834.91
   .006314      485.      520.      550.         3        14         0       .00    339.64  10174.54
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ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .80 CWSEL= 1868.87

STA=	9835.	9855.	9995.	10044.	10143.	10175.
PER Q=	.4	30.8	46.3	21.9	.6	
AREA=	8.8	261.9	189.1	185.7	13.8	
VEL=	1.0	2.8	5.7	2.8	1.0	
DEPTH=	.4	1.9	3.8	1.9	.4	

*SECNO .880

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

.880	4.38	1872.38	1872.31	.00	1873.34	.96	3.57	.60	1870.00
2348.0	156.6	1863.6	327.8	45.5	215.4	93.0	59.0	30.9	1870.00
.26	3.44	8.65	3.52	.065	.050	.065	.000	1868.00	9942.31
.015666	370.	380.	380.	2	15	0	.00	172.34	10114.65

FLOW DISTRIBUTION FOR SECNO= .88 CWSEL= 1872.38

STA=	9942.	9952.	9983.	10044.	10111.	10115.
PER Q=	.1	6.6	79.4	13.9	.0	
AREA=	1.7	43.8	215.4	92.3	.7	
VEL=	.9	3.5	8.7	3.5	.9	
DEPTH=	.2	1.4	3.6	1.4	.2	

*SECNO .980

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

.980	4.73	1878.73	1878.06	.00	1879.18	.45	5.54	.31	1876.00
2348.0	224.6	1705.7	417.7	85.8	278.8	156.3	64.6	33.5	1876.00
.29	2.62	6.12	2.67	.065	.050	.065	.000	1874.00	9918.46
.006978	550.	550.	560.	3	11	0	.00	240.11	10158.57

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .98 CWSEL= 1878.73

STA=	9918.	9936.	9982.	10054.	10141.	10159.
PER Q=	.3	9.3	72.6	17.5	.3	
AREA=	6.2	79.6	278.8	149.8	6.5	
VEL=	1.0	2.7	6.1	2.7	1.0	
DEPTH=	.4	1.7	3.9	1.7	.4	

*SECNO 1.050
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.050	4.43	1882.43	1882.43	.00	1883.18	.75	3.52	.27	1880.00
2348.0	151.5	1518.5	678.0	45.2	183.6	197.9	68.5	35.5	1880.00
.30	3.35	8.27	3.43	.065	.050	.065	.000	1878.00	9947.40
.014236	370.	365.	360.	0	10	0	.00	240.32	10187.73

FLOW DISTRIBUTION FOR SECNO= 1.05 CWSEL= 1882.43

STA=	9947.	9956.	9987.	10038.	10174.	10188.
PER Q=	.1	6.4	64.7	28.8	.1	
AREA=	2.0	43.3	183.6	195.0	2.9	
VEL=	1.0	3.5	8.3	3.5	1.0	
DEPTH=	.2	1.4	3.6	1.4	.2	

*SECNO 1.120

1.120	4.94	1886.94	1886.19	.00	1887.25	.31	3.81	.26	1884.00
2348.0	1354.3	638.9	354.8	367.6	100.2	128.7	73.0	37.8	1884.00
.33	3.68	6.38	2.76	.065	.050	.065	.000	1882.00	9896.50
.007384	440.	380.	300.	4	10	0	.00	294.87	10191.38

FLOW DISTRIBUTION FOR SECNO= 1.12 CWSEL= 1886.94

STA=	9897.	9934.	9975.	10007.	10067.	10092.	10147.	10191.
PER Q=	.9	10.5	16.3	30.0	27.2	14.1	1.0	
AREA=	17.5	80.6	94.6	174.9	100.2	108.0	20.7	
VEL=	1.2	3.1	4.0	4.0	6.4	3.1	1.2	
DEPTH=	.5	1.9	2.9	2.9	4.0	1.9	.5	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.200
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.200	3.56	1891.56	1891.56	.00	1892.19	.63	4.65	.29	1890.00
2348.0	307.7	1899.8	140.5	98.9	274.3	45.2	77.3	40.5	1890.00
.34	3.11	6.93	3.11	.065	.050	.065	.000	1888.00	9800.17
.025751	340.	380.	430.	0	18	0	.00	340.81	10140.97

FLOW DISTRIBUTION FOR SECNO= 1.20 CWSEL= 1891.56

STA=	9800.	9927.	10083.	10141.
PER Q=	13.1	80.9	6.0	
AREA=	98.9	274.3	45.2	
VEL=	3.1	6.9	3.1	
DEPTH=	.8	1.8	.8	

T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME: RANI.DAT JJA NO. 290-018 (ENCROACHMENT RUN)
T3 REV. 6-22-92 *RANIERI TANK WASH -- 100 YEAR FLOW FLOODWAY WITH ENCROACHMENTS*

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0	0	0	4179	1832.48	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1	0	0	0	-1	0	0	15

```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*PROF 2

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS



CCHV=     .600 CEHV=     .900
*SECNO 2.230

3470 ENCROACHMENT STATIONS=     9979.4   10161.6  TYPE=      1  TARGET=      182.220
              ***************************************************
                SAME CROSS SECTION AND 2.23 IN PARADISE WASH
                CONFUENCE OF PARADISE WASH AND RANIERI TANK WASH
              ***************************************************
    2.230      6.48   1832.48   1832.43   1832.41   1833.85      1.37       .00       .00   1828.00
   4179.0       .0    2784.7    1394.3        .1     252.4     307.7        .0        .0   1828.00
      .00       .25     11.03      4.53      .065      .050      .065      .000   1826.00   9979.40
  .013384       0.        0.        0.         0         4         0       .00    182.22  10161.62


FLOW DISTRIBUTION FOR SECNO=      2.23          CWSEL=   1832.48

          9979.    9979.   10023.   10035.   10162.
     R Q=      .0     66.6      5.9     27.5
   AREA=      .1    252.4     40.7    267.0
    VEL=      .3     11.0      6.0      4.3
  DEPTH=     4.5      5.8      3.5      2.1

*SECNO  .090

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.55


3470 ENCROACHMENT STATIONS=     9960.0   10150.5  TYPE=      1  TARGET=      190.500
     .090      6.56   1836.56   1834.22   1835.63   1836.74       .17      2.17       .72   1832.00
   2348.0       .0    1428.8     919.1        .0     364.0     431.2       6.9       1.9   1832.00
     .04       .00      3.93      2.13      .000      .050      .065      .000   1830.00   9960.00
  .001749     400.      420.      460.         3        14         0       .00    190.50  10150.50
```

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
           QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME    VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE   XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=       .09          CWSEL=   1836.56

STA=    9960.   10020.   10120.   10150.
  PER Q=     60.9     33.9      5.2
   AREA=    364.0    356.6     74.6
    VEL=      3.9      2.2      1.7
  DEPTH=      6.1      3.6      2.4

*SECNO  .170

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9962.0   10064.3  TYPE=      1  TARGET=      102.300
      .170      3.97   1838.27   1838.27   1838.39   1839.63      1.36      1.80      1.06   1836.00
    2348.0     229.2    1856.9     261.9      46.2     182.2      53.2      12.0       3.3   1836.00
       .05      4.96     10.19      4.92      .065      .050      .065      .000   1834.30   9962.00
   .021291      455.      435.      395.         0        14         0       .00    102.30  10064.30


 DISTRIBUTION FOR SECNO=       .17          CWSEL=   1838.27

STA=    9962.    9986.   10036.   10064.
  PER Q=      9.8     79.1     11.2
   AREA=     46.2    182.2     53.2
    VEL=      5.0     10.2      4.9
  DEPTH=      1.9      3.6      1.9

*SECNO  .240

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.23


3470 ENCROACHMENT STATIONS=     9906.0   10027.7  TYPE=      1  TARGET=      121.700
      .240      6.67   1842.67   1840.95   1842.09   1843.08       .41      2.89       .57   1838.00
    2348.0     922.5    1250.1     175.4     258.8     200.2      56.7      15.3       4.2   1838.00
       .07      3.56      6.24      3.09      .065      .050      .065      .000   1836.00   9906.00
   .004271      350.      355.      360.         4        11         0       .00    121.70  10027.70
```

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .24 CWSEL= 1842.67

STA=	9906.	9973.	10008.	10019.	10028.
PER Q=	39.3	53.2	6.0	1.4	
AREA=	258.8	200.2	40.3	16.4	
VEL=	3.6	6.2	3.5	2.1	
DEPTH=	3.9	5.8	3.7	1.8	

*SECNO .330

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .59

3470 ENCROACHMENT STATIONS= 9937.6 10057.2 TYPE= 1 TARGET= 119.601

.330	3.94	1845.94	1845.35	1845.77	1846.70	.75	3.31	.31	100000.00
2348.0	.0	2173.0	175.0	.0	303.1	48.9	20.1	5.6	1844.00
.09	.00	7.17	3.58	.000	.050	.065	.000	1842.00	9937.60
.012260	475.	495.	480.	4	8	0	.00	119.60	10057.20

FLOW DISTRIBUTION FOR SECNO= .33 CWSEL= 1845.94

	9938.	10030.	10057.
ER Q=	92.5	7.5	
AREA=	303.1	48.9	
VEL=	7.2	3.6	
DEPTH=	3.3	1.8	

*SECNO .440

3470 ENCROACHMENT STATIONS= 9994.6 10156.7 TYPE= 1 TARGET= 162.101

.440	4.19	1852.19	1850.85	1851.77	1852.51	.32	5.56	.26	100000.00
2348.0	.0	494.9	1853.1	.0	98.5	417.6	25.8	7.4	1850.00
.12	.00	5.02	4.44	.000	.050	.065	.000	1848.00	9994.60
.007936	570.	570.	570.	3	19	0	.00	162.10	10156.70

FLOW DISTRIBUTION FOR SECNO= .44 CWSEL= 1852.19

STA=	9995.	10030.	10140.	10148.	10157.
PER Q=	21.1	65.9	6.9	6.1	
AREA=	98.5	351.4	30.6	35.4	
VEL=	5.0	4.4	5.3	4.0	
DEPTH=	2.8	3.2	4.2	4.0	

```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .510

3470 ENCROACHMENT STATIONS=     9948.7   10087.0  TYPE=      1  TARGET=      138.300
      .510      3.60   1855.60   1854.72   1855.38   1856.11       .51      3.43       .17   1854.00
    2348.0        .0    2348.0       .0       .0     407.8        .0      30.1       8.8 100000.00
      .14       .02      5.76       .00      .065      .050      .000      .000   1852.00   9948.70
   .009015      385.      400.      415.         3        14         0       .00    138.30  10087.00


FLOW DISTRIBUTION FOR SECNO=       .51          CWSEL=   1855.60

STA=    9949.   10087.
  PER Q=    100.0
   AREA=    407.8
    VEL=      5.8
  DEPTH=      2.9

*SECNO  .610

3470 ENCROACHMENT STATIONS=     9951.0   10100.0  TYPE=      1  TARGET=      149.000
      .610      4.67   1861.07   1860.57   1860.90   1861.73       .65      5.49       .12   1858.00
    2348.0     524.4     767.1    1056.5     102.7      87.3     214.5      34.6      10.4   1858.00
      .17      5.11      8.78      4.93      .065      .050      .065      .000   1856.40   9951.00
   .014539      530.      495.      440.         4        11         0       .00    149.00  10100.00


FLOW DISTRIBUTION FOR SECNO=       .61          CWSEL=   1861.07

STA=    9951.    9989.   10012.   10100.
  PER Q=     22.3     32.7     45.0
   AREA=    102.7     87.3    214.5
    VEL=      5.1      8.8      4.9
  DEPTH=      2.7      3.9      2.4

*SECNO  .700

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.55


3470 ENCROACHMENT STATIONS=     9920.0   10040.0  TYPE=      1  TARGET=      120.000
      .700      5.65   1865.65   1864.36   1865.18   1866.16       .51      4.34       .09   1862.00
    2348.0     553.1    1596.6     198.3     151.1     246.3      57.8      39.5      11.9   1862.00
      .19      3.66      6.48      3.43      .065      .050      .065      .000   1860.00   9920.00
   .006049      505.      475.      490.         3        11         0       .00    120.00  10040.00
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=       .70          CWSEL=   1865.65

STA=    9920.    9969.   10021.   10040.
  PER Q=     23.6     68.0      8.4
   AREA=    151.1    246.3     57.8
    VEL=      3.7      6.5      3.4
  DEPTH=      3.1      4.7      3.0

*SECNO  .800

3470 ENCROACHMENT STATIONS=     9938.9   10086.0  TYPE=      1  TARGET=      147.100
      .800      5.06   1869.16   1868.17   1868.87   1869.64       .48      3.46       .02   1866.00
    2348.0     582.9    1335.5     429.6     153.8     203.2     115.0      44.9      13.5   1866.00
       .22      3.79      6.57      3.74      .065      .050      .065      .000   1864.10   9938.90
   .007494      485.      520.      550.         3        19         0       .00    147.10  10086.00


FLOW DISTRIBUTION FOR SECNO=       .80          CWSEL=   1869.16

STA=    9939.    9995.   10044.   10086.
  PER Q=     24.8     56.9     18.3
   AREA=    153.8    203.2    115.0
    VEL=      3.8      6.6      3.7
  DEPTH=      2.8      4.1      2.7

*SECNO  .880

3470 ENCROACHMENT STATIONS=     9953.0   10074.0  TYPE=      1  TARGET=      121.000
      .880      4.68   1872.68   1872.21   1872.38   1873.54       .85      3.56       .34   1870.00
    2348.0     186.7    1882.1     279.2      52.3     233.8      67.4      48.5      14.7   1870.00
       .23      3.57      8.05      4.14      .065      .050      .065      .000   1868.00   9953.00
   .012165      370.      380.      380.         3        15         0       .00    121.00  10074.00


FLOW DISTRIBUTION FOR SECNO=       .88          CWSEL=   1872.68

STA=    9953.    9983.   10044.   10074.
  PER Q=      8.0     80.2     11.9
   AREA=     52.3    233.8     67.4
    VEL=      3.6      8.1      4.1
  DEPTH=      1.7      3.9      2.2
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .980

3470 ENCROACHMENT STATIONS= 9979.0 10083.9 TYPE= 1 TARGET= 104.900

.980	4.78	1878.78	1877.91	1878.73	1879.52	.73	5.91	.07	1876.00
2348.0	21.0	2042.6	284.4	7.6	283.1	73.7	53.1	16.1	1876.00
.25	2.78	7.22	3.86	.065	.050	.065	.000	1874.00	9979.00
.009508	550.	550.	560.	4	15	0	.00	104.90	10083.90

FLOW DISTRIBUTION FOR SECNO= .98 CWSEL= 1878.78

STA=	9979.	9982.	10054.	10084.
PER Q=	.9	87.0	12.1	
AREA=	7.6	283.1	73.7	
VEL=	2.8	7.2	3.9	
DEPTH=	2.7	3.9	2.4	

*SECNO 1.050

3470 ENCROACHMENT STATIONS= 9970.0 10121.7 TYPE= 1 TARGET= 151.700

1.050	4.67	1882.67	1882.22	1882.43	1883.38	.71	3.85	.01	1880.00
2348.0	135.5	1534.7	677.8	35.2	195.4	171.1	56.3	17.2	1880.00
.27	3.84	7.85	3.96	.065	.050	.065	.000	1878.00	9970.00
.011817	370.	365.	360.	1	15	0	.00	151.70	10121.70

FLOW DISTRIBUTION FOR SECNO= 1.05 CWSEL= 1882.67

STA=	9970.	9987.	10038.	10122.
PER Q=	5.8	65.4	28.9	
AREA=	35.2	195.4	171.1	
VEL=	3.8	7.9	4.0	
DEPTH=	2.1	3.8	2.0	

*SECNO 1.120

3470 ENCROACHMENT STATIONS= 10000.0 10135.0 TYPE= 1 TARGET= 135.000

1.120	5.16	1887.16	1886.43	1886.94	1887.76	.60	4.31	.07	1884.00
2348.0	1065.3	853.3	429.3	210.5	105.4	102.6	59.8	18.4	1884.00
.29	5.06	8.09	4.19	.065	.050	.065	.000	1882.00	10000.00
.011109	440.	380.	300.	3	12	0	.00	135.00	10135.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.12 CWSEL= 1887.16

STA=	10000.	10007.	10067.	10092.	10135.
PER Q=	4.0	41.3	36.3	18.3	
AREA=	23.2	187.3	105.4	102.6	
VEL=	4.1	5.2	8.1	4.2	
DEPTH=	3.2	3.2	4.2	2.4	

*SECNO 1.200

3470 ENCROACHMENT STATIONS= 9926.7 10140.0 TYPE= 1 TARGET= 213.300

1.200	4.03	1892.03	1891.70	1891.56	1892.57	.53	4.77	.04	1890.00
2348.0	.0	2117.8	230.2	.1	348.0	72.0	63.4	19.9	1890.00
.31	.37	6.09	3.20	.065	.050	.065	.000	1888.00	9926.70
.014475	340.	380.	430.	4	14	0	.00	213.30	10140.00

FLOW DISTRIBUTION FOR SECNO= 1.20 CWSEL= 1892.03

STA=	9927.	9927.	10083.	10140.
PER Q=	.0	90.2	9.8	
AREA=	.1	348.0	72.0	
VEL=	.4	6.1	3.2	
DEPTH=	2.0	2.2	1.3	

THIS RUN EXECUTED 22JUN92 16:42:10

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1991
****

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

6-22-92 RANIERI TANK WA

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	2.230	.00	.00	.00	1826.00	4179.00	1832.41	1832.41	1833.16	91.51	9.05	902.72	436.86
	2.230	.00	.00	.00	1826.00	4179.00	1832.48	1832.43	1833.85	133.84	11.03	560.21	361.22
	.090	420.00	.00	.00	1830.00	2348.00	1835.63	1834.17	1835.85	27.92	4.65	807.05	444.34
*	.090	420.00	.00	.00	1830.00	2348.00	1836.56	1834.22	1836.74	17.49	3.93	795.18	561.38
*	.170	435.00	.00	.00	1834.30	2348.00	1838.39	1838.39	1839.27	148.98	8.72	396.70	192.37
*	.170	435.00	.00	.00	1834.30	2348.00	1838.27	1838.27	1839.63	212.91	10.19	281.61	160.92
	.240	355.00	.00	.00	1836.00	2348.00	1842.09	1841.01	1842.49	52.77	6.47	562.06	323.23
*	.240	355.00	.00	.00	1836.00	2348.00	1842.67	1840.95	1843.08	42.71	6.24	515.79	359.30
*	.330	495.00	.00	.00	1842.00	2348.00	1845.77	1845.46	1846.39	117.09	6.85	454.46	216.99
*	.330	495.00	.00	.00	1842.00	2348.00	1845.94	1845.35	1846.70	122.60	7.17	352.00	212.06
	.440	570.00	.00	.00	1848.00	2348.00	1851.77	1850.69	1852.01	78.12	4.66	606.93	265.65
	.440	570.00	.00	.00	1848.00	2348.00	1852.19	1850.85	1852.51	79.36	5.02	516.05	263.57
	.510	400.00	.00	.00	1852.00	2348.00	1855.38	1854.77	1855.90	104.15	5.93	437.05	230.08
	.510	400.00	.00	.00	1852.00	2348.00	1855.60	1854.72	1856.11	90.15	5.76	407.88	247.29
	.610	495.00	.00	.00	1856.40	2348.00	1860.90	1860.52	1861.27	112.76	7.50	576.12	221.12
	.610	495.00	.00	.00	1856.40	2348.00	1861.07	1860.57	1861.73	145.39	8.78	404.53	194.73
	.700	475.00	.00	.00	1860.00	2348.00	1865.18	1864.49	1865.64	70.50	6.53	524.23	279.64
*	.700	475.00	.00	.00	1860.00	2348.00	1865.65	1864.36	1866.16	60.49	6.48	455.17	301.89
	.800	520.00	.00	.00	1864.10	2348.00	1868.87	1868.30	1869.17	63.14	5.75	659.39	295.49
	.800	520.00	.00	.00	1864.10	2348.00	1869.16	1868.17	1869.64	74.94	6.57	472.01	271.23
*	.880	380.00	.00	.00	1868.00	2348.00	1872.38	1872.31	1873.34	156.66	8.65	353.96	187.59
	.880	380.00	.00	.00	1868.00	2348.00	1872.68	1872.21	1873.54	121.65	8.05	353.49	212.88

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	.980	550.00	.00	.00	1874.00	2348.00	1878.73	1878.06	1879.18	69.78	6.12	520.96	281.08
	.980	550.00	.00	.00	1874.00	2348.00	1878.78	1877.91	1879.52	95.08	7.22	364.33	240.79
*	1.050	365.00	.00	.00	1878.00	2348.00	1882.43	1882.43	1883.18	142.36	8.27	426.70	196.79
	1.050	365.00	.00	.00	1878.00	2348.00	1882.67	1882.22	1883.38	118.17	7.85	401.80	216.00
	1.120	380.00	.00	.00	1882.00	2348.00	1886.94	1886.19	1887.25	73.84	6.38	596.52	273.25
	1.120	380.00	.00	.00	1882.00	2348.00	1887.16	1886.43	1887.76	111.09	8.09	418.56	222.78
*	1.200	380.00	.00	.00	1888.00	2348.00	1891.56	1891.56	1892.19	257.51	6.93	418.38	146.32
	1.200	380.00	.00	.00	1888.00	2348.00	1892.03	1891.70	1892.57	144.75	6.09	420.09	195.16

-92 RANIERI TANK WA

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2.230	4179.00	1832.41	.00	.00	.05	572.18	.00
	2.230	4179.00	1832.48	.07	.00	.07	182.22	.00
	.090	2348.00	1835.63	.00	3.22	.00	407.40	420.00
*	.090	2348.00	1836.56	.94	4.08	.94	190.50	420.00
*	.170	2348.00	1838.39	.00	2.76	.00	229.69	435.00
*	.170	2348.00	1838.27	-.12	1.71	-.12	102.30	435.00
*	.240	2348.00	1842.09	.00	3.70	.00	216.38	355.00
*	.240	2348.00	1842.67	.57	4.40	.57	121.70	355.00
*	.330	2348.00	1845.77	.00	3.67	.00	281.40	495.00
*	.330	2348.00	1845.94	.18	3.28	.18	119.60	495.00
	.440	2348.00	1851.77	.00	6.00	.00	276.31	570.00
	.440	2348.00	1852.19	.42	6.24	.42	162.10	570.00
	.510	2348.00	1855.38	.00	3.62	.00	223.72	400.00
	.510	2348.00	1855.60	.22	3.41	.22	138.30	400.00
	.610	2348.00	1860.90	.00	5.52	.00	365.38	495.00
	.610	2348.00	1861.07	.17	5.48	.17	149.00	495.00
	.700	2348.00	1865.18	.00	4.28	.00	240.54	475.00
*	.700	2348.00	1865.65	.47	4.57	.47	120.00	475.00
	.800	2348.00	1868.87	.00	3.69	.00	339.64	520.00
	.800	2348.00	1869.16	.29	3.51	.29	147.10	520.00
*	.880	2348.00	1872.38	.00	3.51	.00	172.34	380.00
	.880	2348.00	1872.68	.30	3.52	.30	121.00	380.00
*	.980	2348.00	1878.73	.00	6.35	.00	240.11	550.00
	.980	2348.00	1878.78	.05	6.10	.05	104.90	550.00
*	1.050	2348.00	1882.43	.00	3.70	.00	240.32	365.00
	1.050	2348.00	1882.67	.24	3.89	.24	151.70	365.00
	1.120	2348.00	1886.94	.00	4.51	.00	294.87	380.00
	1.120	2348.00	1887.16	.21	4.49	.21	135.00	380.00
*	1.200	2348.00	1891.56	.00	4.62	.00	340.81	380.00
	1.200	2348.00	1892.03	.47	4.88	.47	213.30	380.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=      2.230  PROFILE=  1  CRITICAL DEPTH ASSUMED

WARNING SECNO=       .090  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=       .170  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .170  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .170  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .170  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=       .240  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=       .240  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=       .330  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=       .330  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=       .700  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=       .880  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=       .980  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.050  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.050  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      1.200  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.200  PROFILE=  1  MINIMUM SPECIFIC ENERGY
```

way width summary: 6-22-92 RANIERI TANK WA
le No. 2

Section Number	Elevation Increase	Top Width	Left Encroach Station	Left Sta Distance From Center	Center Station	Right Sta Distance From Center	Right Encroach Station
2.230	.07	182.22	9979.40	21.85	10001.25	160.37	10161.62
.090	.94	190.50	9960.00	30.00	9990.00	160.50	10150.50
.170	-.12	102.30	9962.00	49.01	10011.01	53.29	10064.30
.240	.57	121.70	9906.00	84.44	9990.44	37.26	10027.70
.330	.18	119.60	9937.60	46.07	9983.67	73.54	10057.20
.440	.42	162.10	9994.60	17.68	10012.28	144.42	10156.70
.510	.22	138.30	9948.70	69.17	10017.87	69.13	10087.00
.610	.17	149.00	9951.00	49.73	10000.73	99.27	10100.00
.700	.47	120.00	9920.00	74.71	9994.71	45.29	10040.00
.800	.29	147.10	9938.90	80.38	10019.29	66.71	10086.00
.880	.30	121.00	9953.00	60.54	10013.54	60.46	10074.00
.980	.05	104.90	9979.00	38.72	10017.71	66.19	10083.90
1.050	.24	151.70	9970.00	42.41	10012.41	109.29	10121.70
1.120	.21	135.00	10000.00	79.31	10079.30	55.70	10135.00
1.200	.47	213.30	9926.70	78.24	10004.95	135.05	10140.00

FLOODWAY DATA, 6-22-92 RANIERI TANK WA
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
2.230	182.	560.	7.5	1832.5	1832.4	.1
.090	190.	795.	3.0	1836.5	1835.6	.9
.170	102.	282.	8.3	1838.3	1838.4	-.1
.240	122.	516.	4.6	1842.7	1842.1	.6
.330	120.	352.	6.7	1846.0	1845.8	.2
.440	162.	516.	4.5	1852.2	1851.8	.4
.510	138.	408.	5.8	1855.6	1855.4	.2
.610	149.	405.	5.8	1861.1	1860.9	.2
.700	120.	455.	5.2	1865.7	1865.2	.5
.800	147.	472.	5.0	1869.2	1868.9	.3
.880	121.	353.	6.6	1872.7	1872.4	.3
.980	105.	364.	6.4	1878.8	1878.7	.1
1.050	152.	402.	5.8	1882.6	1882.4	.2
1.120	135.	419.	5.6	1887.1	1886.9	.2
1.200	213.	420.	5.6	1892.1	1891.6	.5

DESERT HILLS WASH

THIS RUN EXECUTED 09JUN92 09:37:31

```
************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.0;  February 1991
************************************


THIS IS AN ARCHIVAL RUN ALL DATA AND RESULTS ARE SAVED ON UNIT   96

AC
AC AERIAL MAPPING:  KENNEY AERIAL MAPPING CO. -- DATE  JULY-NOV. 1990
AC                  1130 W. FILLMORE PHX. AZ. 85007
AC                  PHONE (602) 258-6471   ELLIS HYDE
AC
AC SURVEY CONTROL:  McCUEN GPS INC. -- DATE  JUNE 1990
AC                  8948 W. CALLE LEJOS PEORIA AZ.
AC                  PHONE (602) 995-8445   GLEN McCUEN R.L.S.
AC
AC HYDROLOGY & FIS: JERRY R. JONES & ASSOC. -- DATE FEB 89-AUG 91
AC                  2929 E. CAMELBACK ROAD
AC                  PHX. AZ.   85016
AC                  PHONE (602) 956-9850   ROGER BAELE P.E.
AC
AC                  FILE:  DTHL.DAT
AC
                    DESERT HILLS WASH

T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME = DTHL.DAT       JJA NO. 290-018
T3 REV.   6-9-92  DESERT HILLS WASH -- 100 YEAR FLOW WITHOUT ENCROACHMENT

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        5        0        0        0        0        0     13541   1743.2     0

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0       -1        0        0        0       -1        0        0       15


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    115      150      200

NC                                  .6       .9
NH       5     .065     9410     .050     9465     .065     9880     .050    10100     .065
NH   11135
QT       1    13541                      13541
ET              3.1     9350    10190
```

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      .22        25      9410      9465       150       250       140
     1750      9230      1744      9310      1742      9350      1740      9410      1736      9430
GR   1735      9440      1736      9450      1740      9465      1741      9600      1740      9880
GR   1738      9975      1736      9990      1734     10000      1736     10025      1738     10035
GR   1740     10100      1742     10130      1742     10160      1738     10170      1738     10200
GR   1740     10435      1742     10625      1742     10790      1746     10925      1750     11135

QT      1     10259                          13541
NH      4        20      9375      .065      9984       .05   10018.7      .065     10750
ET               3.1      9750     10238
      ************************************************************************
         THIS SECTION COINCIDES WITH SECTION 2.97 MAIN BRANCH APACHE WASH
      ************************************************************************
X1    0.31        24      9984   10018.7       450       400       425
GR   1752      8920      1746      8990      1744      9000      1738      9020      1738      9045
GR   1740      9055      1742      9065      1742      9170      1744      9365      1744      9375
GR   1742      9750    1741.5      9800    1741.3      9910      1740      9984    1738.0   9986.95
GR 1736.0   9989.63    1736.0   9995.85   1738.00  10007.33   1740.00  10018.70    1740.0  10238.69
GR 1740.0  10248.88    1742.0  10511.29   1744.00  10690.41   1746.00  10750.00

QT      1     10259                          10465
NC   .065      .065       .05        .6         .9
ET               3.1      9580     10120
      ************************************************************************
         THIS IS THE FIRST SECTION OF THE DESERT HILLS WASH: END CONFLUENCE
         THIS LOCATION IS JUST UPSTREAM OF THE CONFLUENCE WITH MAIN BRANCH
         FLOW IS RECEIVED FROM MAIN BRANCH APACHE WASH SPLIT FLOW
      ************************************************************************
    0.40        21   9966.56  10021.82       380       570       478       0.0       0.0       0.0
  1748.0   9000.00      1748      9100   1746.00   9402.16   1744.00   9610.77   1742.00   9720.22
GR 1742.0   9949.58    1742.0   9966.56   1740.00   9976.95   1738.00   9988.11   1738.00   9999.42
GR 1740.0  10008.13    1742.0  10016.94   1742.00  10021.82   1742.00  10103.85   1744.00  10240.84
GR 1746.0  10290.98    1746.0  10292.67   1748.00  10324.41   1748.00  10327.05   1750.00  10352.56
GR 1750.0  10352.56

QT      1     10259                          10453
ET               3.1      9758     10314
      ************************************************************************
         FLOW IS RECEIVED FROM MAIN BRANCH APACHE WASH SPLIT FLOW
      ************************************************************************
X1    0.48        13   9979.98  10013.02       400       300       382       0.0       0.0       0.0
GR 1750.2      8900    1750.0      9100   1748.00      9415    1746.0      9560   1744.00      9775
GR 1742.0   9979.98   1740.00   9985.45   1740.00  10006.35    1742.0  10013.02   1744.00     10335
GR 1746.0     10440      1748     10475   1750.00     10500

QT      1     10259                          10264
ET               3.1      9513     10084
      ************************************************************************
         FLOW IS RECEIVED FROM MAIN BRANCH APACHE WASH SPLIT FLOW
```

```
          ************************************************************************
X1      0.56        28    9986.89   10019.47       320       450       436       0.0       0.0       0.0
GR    1752.3      8615      1752       8680      1750      8850      1750      8940      1749      9000
GR      1748      9200      1746       9475      1744      9600      1744      9615      1745      9730
GR    1744.0   9986.89    1744.0    9986.89   1742.00   9991.42   1742.00   9991.42   1740.00   9998.14
GR    1740.0   9998.14    1740.0   10012.68   1740.00  10012.77   1742.00  10016.12   1742.00  10016.12
GR    1744.0  10019.47    1744.0   10019.47   1744.00  10081.48   1744.00  10085.66      1746     10180
GR    1748.0  10292.39   1750.00      10350   1752.00     10465

QT         1     10259                        10259
ET                3.1      9750      10230
          ****************************************************
          ***  CONCENTRATION POINT F5T - DESERT HILLS WASH  ***
          ****************************************************
X1      0.64        33    9977.76   10018.06       270       450       450       0.0       0.0       0.0
GR      1752      9235    1750.0       9420   1748.00      9590   1746.00      9825   1746.00      9920
GR    1746.0   9977.76    1744.0    9985.32   1744.00   9985.32   1744.00   9985.39   1744.00   9985.40
GR    1742.0   9993.02    1742.0    9993.02   1742.00   9993.84   1742.00   9993.84   1742.00   9996.50
GR    1742.0   9999.03    1742.0   10000.86   1742.00  10006.33   1742.00  10006.33   1742.00  10006.40
GR    1744.0  10009.48    1744.0   10011.89   1744.00  10012.11   1744.00  10012.11   1746.00  10018.06
GR    1746.0     10130    1746.0      10220   1746.00     10280    1745.8     10290   1746.00     10305
GR    1748.0     10415   1750.00      10517   1752.00     10585

ET                3.1      9950      10335
X1      0.72        24    9986.71   10016.50       340       325       373       0.0       0.0       0.0
GR    1756.0      9365   1754.00       9470   1752.00      9625   1750.00      9800    1748.0    9986.71
GR    1748.0   9986.75   1746.00    9991.03   1746.00   9991.08   1744.00   9995.08    1744.0    9995.12
GR    1744.0  10010.29   1744.00   10010.29   1746.00  10013.39   1746.00  10013.39    1748.0   10016.50
GR    1748.0  10016.50   1748.00   10081.37    1746.2     10315   1748.00     10380   1750.00     10510
GR    1750.0     10610   1752.00      10740      1754     10800      1756     10835

ET                3.1      9750      10350
X1      0.81        27    9983.58   10018.03       550       400       492       0.0       0.0       0.0
GR    1755.3      9680      1754       9730   1752.00   9779.07   1752.00   9805.44   1750.00   9883.96
GR    1750.0   9884.14   1750.00    9983.58   1750.00   9983.71   1750.00   9988.29   1750.00   9988.29
GR    1748.0   9989.30   1748.00    9989.30   1746.00   9990.31   1746.00   9990.32   1746.00  10011.70
GR    1746.0  10011.70   1748.00   10014.89   1748.00  10014.94   1750.00  10017.90   1750.00  10018.03
GR    1750.0  10035.47   1750.00   10035.57    1748.5     10105   1750.00     10270   1752.00     10535
GR      1754     10680   1756.00      10740

ET                3.1      9750      10200
X1      0.90        29    9996.49   10017.63       500       480       491       0.0       0.0       0.0
GR    1760.0   9300.00   1760.00    9357.07   1760.00   9449.84   1760.00   9643.57   1760.00   9643.57
GR    1758.0   9698.30   1758.00    9698.30   1756.00   9729.54   1756.00   9729.54   1754.00   9766.39
GR    1754.0   9766.58   1752.00    9831.51   1752.00   9831.51   1751.00   9950.49   1750.00   9996.49
GR    1748.0  10000.96   1748.00   10000.96   1748.00  10013.62   1748.00  10013.64   1750.00  10017.63
GR    1750.0  10017.63   1752.00   10021.66   1752.00  10021.74   1752.00  10038.07   1752.00  10038.12
GR    1752.0  10235.65   1754.00   10411.03   1756.00  10599.65   1758.00  10800.00
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ET                3.1      9750     10175
X1     0.99        30   9988.19  10012.73       490       440       470       0.0       0.0       0.0
GR   1762.0   9333.68   1762.00   9333.68   1760.00   9403.72   1760.00   9403.72    1758.0   9486.25
GR   1758.0   9487.32   1756.00   9640.92   1756.00   9640.92   1754.00   9732.38    1754.0   9732.38
GR   1754.0   9737.95   1754.00   9737.95   1754.00   9814.01   1754.00   9814.01    1752.0   9988.19
GR   1750.0   9989.38   1750.00   9990.31   1752.00   9991.34   1752.00   9992.23    1750.0   9994.34
GR   1748.0   9996.33   1748.00  10004.96   1750.00  10008.87   1752.00  10012.73    1754.0  10163.12
GR   1756.0  10423.96   1756.00  10451.19   1756.00  10470.06   1758.00  10553.26    1760.0  10641.18

QT       1      9657                          9657
ET                3.1      9780     10174
        ******************************************************
        ***  CONCENTRATION POINT F3T - DESERT HILLS WASH  ***
        ******************************************************
X1     1.10        14   9987.85  10015.16       500       600       553       0.0       0.0       0.0
GR   1760.0   9661.53   1760.00   9661.68   1760.00   9666.92   1758.00   9731.52   1756.00   9789.02
GR   1754.0   9920.43   1754.00   9925.06   1754.00   9987.85   1752.00   9990.80   1752.00  10010.76
GR   1754.0  10015.16   1756.00  10156.35   1758.00  10277.53   1760.00  10412.01

ET                3.1      9850     10220
X1     1.19        14   9986.59  10015.77       550       420       491       0.0       0.0       0.0
GR   1766.0   9589.19   1764.00   9725.08   1762.00   9818.91   1760.00   9864.23   1758.0   9908.24
GR   1756.0   9986.59   1754.00   9990.33   1754.00  10011.25   1756.00  10015.77   1756.0  10084.89
GR   1756.0  10117.16   1758.00  10187.21   1760.00  10331.68   1762.00  10500.09

QT       1      9560                          9560
ET                3.1      9770     10200
        *********************
            14TH STREET
        *********************
X1     1.29        12      9960     10060       530       500       515
GR     1766      9340      1764      9540      1762      9680      1760      9745      1758      9960
GR     1756      9985      1756     10025      1758     10060      1760     10115      1762     10210
GR     1764     10320      1766     10435

QT       1      9171                          9171
ET                3.1      9800     10200
        ******************************************************
        ***  CONCENTRATION POINT F2T - DESERT HILLS WASH  ***
        ******************************************************
X1     1.35        20   9985.61  10013.95       200       400       329       0.0       0.0       0.0
GR   1768.0   9100.00      1766      9245   1764.00      9325   1762.00   9590.71   1760.00   9835.00
GR   1760.0   9927.44    1760.0   9985.61   1758.00   9990.71   1756.00   9995.96   1756.00  10003.41
GR   1758.0  10008.73    1760.0  10013.95   1760.00  10054.62   1758.00  10070.33   1758.00  10076.29
GR   1760.0  10080.92    1762.0  10194.70   1764.00  10301.61   1766.00  10431.14   1770.00  10670.00

ET                3.1      9840     10250
X1     1.40        20   9986.79  10016.68       270       310       265       0.0       0.0       0.0
GR   1768.0   9300.00      1766      9395      1764      9480   1764.00   9629.34   1764.00   9745.72
GR   1762.0   9831.52   1762.00   9971.22    1762.0   9986.79   1760.00   9991.04   1758.00   9994.70
GR   1758.0  10004.82   1760.00  10010.65    1762.0  10016.68   1762.00  10037.75   1762.00  10216.60
GR   1764.0  10336.55      1766     10467      1768     10595      1768     10625   1770.00  10750.55
```

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                3.1      9841     10340
X1    1.48       15   9988.50  10016.97       450       360       427       0.0       0.0       0.0
GR  1770.0  9330.00   1768.00   9685.10   1766.00   9787.83   1764.00   9840.70   1762.00   9988.50
GR  1760.0  9994.01   1758.00   9999.33   1758.00  10000.84   1760.00  10006.29   1762.00  10011.58
GR  1764.0 10016.97   1764.00  10040.74   1764.00  10381.15   1766.00  10491.09   1770.00  10770.00

ET              3.1      9600     10150
        ***********************************************************
            12TH STREET LIES BETWEEN SECTIONS 1.58 AND 1.65
        ***********************************************************
X1    1.58       23   9985.08  10011.26       420       300       507       0.0       0.0       0.0
GR  1772.0  8960.00   1770.00   9140.00   1768.00   9280.00   1766.00   9490.00   1766.00   9700.00
GR  1766.0  9722.31    1764.2      9740   1766.00      9760   1764.00      9825      1764      9840
GR  1766.0  9920.00   1766.00   9985.08    1764.0   9990.75   1762.00   9996.59   1762.00  10002.39
GR  1764.0 10006.90   1766.00  10011.26    1766.0  10086.31   1766.00  10132.78      1766     10240
GR    1768     10400      1770     10585      1772     10635

ET              3.1      9580     10100
X1    1.65       16   9986.18  10011.25       350       540       398       0.0       0.0       0.0
GR  1772.0  9030.00      1770      9255   1768.00   9400.43   1766.00   9760.95   1768.00   9986.18
GR  1764.0  9990.54    1764.0  10001.93   1766.00  10006.51   1768.00  10011.25   1770.00  10179.62
GR  1770.0 10195.72    1768.0  10203.80   1768.00  10204.04   1770.00  10214.64   1772.00  10300.14
GR  1774.0 10478.16

ET              3.1      9650     10150
X1    1.72       20   9992.69  10015.60       350       420       385       0.0       0.0       0.0
GR  1774.0  9150.00   1773.00   9200.00   1772.00   9240.00   1771.00   9280.00   1770.00   9329.00
GR  1770.0  9330.00   1770.00   9519.84   1768.00   9992.69   1766.00   9996.91   1766.00  10003.45
GR  1768.0 10009.58   1770.00  10015.60   1770.00  10038.30   1770.00  10107.53   1772.00  10199.94
GR  1774.0 10254.07   1776.00  10287.16   1778.00  10349.86   1780.00  10415.30   1782.00  10485.40

QT      1     8890                          8890
ET              3.1      9728     10250
        ***************************************************************************
          THIS SECTION IS JUST DOWNSTREAM OF CONFLUENCE WITH JONATHAN WASH
        ***************************************************************************

        ******************************************************************
        ***  CONCENTRATION POINT 40MT (WASH TOTAL) - DESERT HILLS WASH  ***
        ******************************************************************
X1    1.81       16   9992.53  10011.98       390       360       426
GR    1776     8888      1775      9140      1774      9250      1773      9350      1772      9449
GR    1772     9450      1770   9992.53      1768   9997.61      1768  10008.15      1770  10011.98
GR    1770 10024.69      1770  10028.04      1772  10111.20      1774  10225.37      1776  10343.91
GR    1778 10419.37

NH       5     .065   9989.49      .050  10009.33      .065  10205.75      .050  10215.62      .065
NH   10631
QT       1     8890                          8890
ET              3.1      9700     10400
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      1.85        23    9989.49   10009.33       250       190       260
    1776.0   9280.00    1774.00    9400.75   1772.00   9540.98   1772.00   9989.49   1770.00   9994.04
GR  1768.0   9998.48    1768.00    9998.91   1770.00  10004.00   1772.00  10009.33   1772.00  10133.70
GR  1772.0  10141.84    1772.00   10185.28   1770.00  10190.16   1768.00  10192.63   1768.00  10205.75
GR  1770.0  10210.21    1772.00   10215.62   1772.00  10260.74   1772.00  10270.82       1774     10360
GR     1776     10420       1778      10555   1780.00     10631

NH        4      .065    9992.98       .050  10014.82      .065     10475        20     11200
QT        1      4143                            4143
ET               3.1       9760      10260
X1     1.95        18    9992.98   10014.82       500       270       500
GR  1779.0   9350.00    1778.00    9462.00   1776.00   9520.00   1774.50   9550.00   1774.00   9992.98
GR  1772.0   9997.29    1772.00   10006.29   1774.00  10014.82   1776.00  10300.00   1776.40     10475
GR     1776     10560       1774      10620      1774     10660      1770     10670      1772     10680
GR     1774     10810       1776      11000      1778     11200

NC    0.065     0.065      0.050        0.6       0.9
QT        1      4143                            4143
ET               3.1       9800      10400
        ********************************************************************
             JUST DOWNSTREAM OF 3-10'X5'X60' CBC'S WITH HEAD AND WINGWALLS
             BENEATH CAREFREE HIGHGWAY.
        *******************************************
        ********************************************************************
        ***  CONCENTRATION POINT 40T (BASIN TOTAL) - DESERT HILLS WASH  ***
        ********************************************************************
X1     2.00         9       9980      10012       210       250       235
X3       10                                                            1778      1778
      1780      9575       1779       9765      1778      9980    1771.9      9981    1771.9     10011
      1778     10012       1778      10280      1778     10630      1780     10840

NC     .065      .065       .012
ET               3.1       9800      10400
SC    3.012       0.5        3.1          0         5        10        60      11.2    1772.1    1771.9
        ********************************************************************
             JUST UPSTREAM OF 3-10'X5'X60 CBC'S WITH HEAD AND WINGWALLS.
             WEIR FLOW IS PRIMARILY WEST OF BOX CULVERT.  CULVERT SKEWED
             25 DEG. RIGHT TO THE ROAD. CULVERT NOT SKEWED WITH RESPECT
             TO THE CHANNEL.
        ********************************************************************
X1     2.01        11       9985      10016        60        60        60
X2                           2     1777.1      1778
X3       10
BT       -8      9665       1780       1780      9985      1779      1779      9986      1779    1777.1
BT              10015       1779     1777.1     10016      1779      1779     10290      1778      1778
BT              10590       1778       1778     10850      1780      1780
GR     1781      9580       1780       9665      1779      9765      1779      9985    1772.1      9986
GR   1772.1     10015       1779      10016      1778     10290      1778     10590      1780     10850
GR     1781     11040
```

	.065	.065	.050							
ET		3.1	9800	10370						
X1	2.05	12	9990.50	10003.73	130	260	215			
GR	1782.0	9647.66	1780.00	9722.61	1780.00	9729.85	1778.00	9819.64	1778.00	9823.80
GR	1776.0	9990.50	1774.00	9994.60	1774.00	9998.20	1776.00	10003.73	1778.00	10540.00
GR	1780.0	10750.88	1782.00	10953.21						
ET		3.1	9835	10300						
X1	2.15	12	9843.03	10016.76	510	510	500			
GR	1786.0	9584.81	1784.00	9670.47	1782.0	9732.16	1780.0	9843.03	1778.0	9995.59
GR	1778.0	10007.92	1780.00	10016.76	1780.0	10026.13	1780.0	10248.62	1782.0	10520.00
GR	1782.0	10521.00	1784.00	10850.00						
ET		3.1	9850.7	10160.6						
X1	2.24	14	9988	10014	525	400	270			
GR	1790	9285	1788.0	9315	1786	9463	1784	9654	1782	9835
GR	1782	9987	1782	9988	1780	9997	1780	10003	1782	10014
GR	1782	10055	1782	10130	1784	10480	1786	10695		
ET		3.1	9850.4	10150.8						
X1	2.34	11	9990	10010	480	480	500			
GR	1790	9275	1788	9570	1786	9620	1785	9710	1785	9710
GR	1784	9990	1782.2	10000	1784	10010	1786	10160	1788	10255
GR	1790	10330								
ET		3.1	9700	10030						
X1	2.43	16	9985	10020	460	490	490			
	1794	9370	1792	9430	1790	9500	1788	9535	1789	9735
	1788	9865	1788	9960	1788	9985	1786	9994	1785	10000
GR	1786	10015	1788	10020	1790	10023	1792	10028	1794	10035
GR	1794.2	10075								
ET		3.1	9970.9	10220.7						
X1	2.53	12	9990	10010	400	450	500			
GR	1794	9835	1794	9860	1792	9905	1791.9	9950	1790	9990
GR	1788	10000	1790	10010	1791	10060	1790.3	10260	1792	10285
GR	1794	10306	1796	10333						
ET		3.1	9933	10242						
X1	2.61	14	9986.85	10019.82	450	470	460			
GR	1800.0	9720.95	1800.00	9885.91	1798.00	9919.50	1796.0	9938.33	1794.00	9986.85
GR	1792.0	9993.05	1790.00	9998.52	1790.00	10001.25	1792.0	10010.25	1794.00	10019.82
GR	1794.0	10072.95	1794.00	10172.82	1796.00	10556.32	1798	10735		
ET		3.1	9900.6	10180.5						
X1	2.71	17	9984.88	10012.67	500	490	500			
GR	1804	9650	1802	9680	1800	9705	1798	9815	1796	9900
GR	1796.0	9910.92	1796.00	9984.88	1794.00	9994.23	1794.00	10007.28	1796.00	10012.67
GR	1798.0	10108.15	1798.00	10187.89	1798.00	10248.37	1798.00	10360.41	1798.00	10440
GR	1800	10500	1802	10600						

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                3.1      9900     10100.5
X1    2.79       15    9985.57   10010.88      310       440       400
GR  1808.0   9540.17   1802.00   9660.99   1800.00   9804.28   1798.00   9985.57   1796.00   9991.85
GR  1794.0   9997.98   1794.00  10001.00   1796.00  10005.84   1798.00  10010.88   1800.00  10124.50
GR  1802.0  10178.47   1802.00  10480.32   1804.00  10700.88   1808.00  10820.35   1810.00  10900.76

ET              3.1      9947     10300
X1    2.87       21    9989.67   10060.24      500       380       450
GR   1808     9935      1808      9935    1808.0      9935   1808.00   9935.56   1806.00   9941.65
GR  1804.0   9947.87   1802.00   9989.67    1802.0   9989.67   1800.00   9993.32   1798.00   9996.76
GR  1798.0  10003.99   1800.00  10009.61    1802.0  10060.24   1802.00  10064.76   1800.00  10068.19
GR  1800.0  10072.79   1802.00  10137.72    1802.0  10143.06   1802.00  10311.88   1804.00  10467.39
GR  1806.0  10923.03

ET              3.1      9951     10280
X1    2.96       14    9990.98   10005.70      380       410       400
GR   1812     9700      1810      9740      1808      9770   1806.00   9811.85      1806      9980
GR  1804.0   9990.98   1802.0    9996.77   1802.00   9998.33   1804.00  10005.70   1806.00  10217.52
GR  1806.0  10622.63   1806.0   10647.13   1808.00     10840   1810.00     10920

ET              3.1     9932.3     10320
X1    3.04       16    9962.34   10015.18      390       370       400
GR  1820.0   9716.24   1818.00   9776.32   1816.00   9839.71   1814.00   9865.31    1812.0   9890.23
GR  1810.0   9923.47   1808.00   9962.34   1806.00   9995.14   1806.00  10004.56    1808.0  10015.18
GR  1808.0  10048.13   1808.00  10243.71   1808.00  10647.04   1808.00  10647.25    1810.0  10834.28
GR  1812.0  10881.35

     1       3669                          3669
                3.1     9925.8     10202.4
      ******************************************************
      ***  CONCENTRATION POINT 41T - DESERT HILLS WASH  ***
      ******************************************************
X1    3.13       35    9985.43   10017.85      440       440       440
GR  1830.0   9188.32   1828.00   9257.82   1826.00   9309.36   1824.00   9342.29    1824.0   9476.75
GR  1824.0   9539.63   1824.00   9539.63   1822.00   9580.91   1822.00   9581.49    1820.0   9608.35
GR  1820.0   9608.58   1818.00   9633.57   1818.00   9633.77   1816.00   9656.96    1816.0   9657.07
GR  1814.0   9692.46   1814.00   9698.55   1812.00   9847.02   1812.00   9847.59    1810.0   9900.60
GR  1810.0   9900.67   1810.00   9936.19   1810.00   9936.20   1810.00   9985.42    1810.0   9985.43
GR  1808.0   9996.63   1808.00   9996.63   1808.00  10002.73   1808.00  10002.78    1810.0  10017.85
GR  1810.0  10017.86   1812.00  10261.64   1812.00     10325   1814.00  10399.78    1814.0  10399.78

ET              3.1      9835     10038.6
X1    3.20       11      9988      10012      350       340       345
GR   1820     9745      1818      9768      1816      9782      1814      9795      1812      9808
GR   1812     9988      1810      9998      1810     10002      1812     10012      1814     10100
GR   1816    10180

ET              3.1      9900     10070.8
X1    3.26       12      9987      10010      335       315       325
GR  1824.0     9815   1822.00      9830   1820.00      9843   1818.00      9865   1816.00      9900
GR  1814.0     9987   1812.00      9998   1812.00     10002   1814.00     10010   1816.00     10105
GR   1818     10160    1818.5     10250
```

ET		3.1	9900.6	10060						
X1	3.31	11	9989.22	10014.44	250	240	235			
GR	1824.0	9785.58	1822.00	9808.84	1820.00	9838.07	1818.00	9879.05	1816.00	9989.22
GR	1814.0	9995.62	1814.00	10003.72	1816.00	10014.44	1818.00	10128	1820	10200
GR	1820.3	10250								
ET		3.1	9950.9	10100						
X1	3.40	13	9965	10067	440	580	480			
GR	1830	9700	1828.00	9745	1826.00	9765	1824.00	9780	1822.0	9835
GR	1820	9965	1818.00	9990	1817	10000	1818.00	10005	1820.00	10067
GR	1822.0	10105	1824.00	10400	1826.00	10530				
ET		3.1	9900	10100.7						
X1	3.49	18	9929.19	10008.59	460	430	450			
GR	1834.0	9891	1834.00	9891.82	1832.00	9901.34	1830.00	9908.35	1828.0	9915.29
GR	1826.0	9922.23	1824.00	9929.19	1822.00	9936.10	1822.00	9951.09	1822.0	9989.41
GR	1822.0	10008.59	1824.00	10195	1826.00	10400	1828.00	10615	1828.0	10675
GR	1828.0	10720	1829.5	10760	1830.00	10850				
ET		3.1	9958	10100.4						
X1	3.59	17	9975	10026.13	520	480	510			
GR	1846.0	9473.31	1844.00	9587.99	1842.00	9680.82	1840.00	9744.76	1838.0	9775.42
GR	1836.0	9808.65	1834.00	9832.63	1832.00	9853.15	1830.00	9876.34	1828.0	9906.39
GR	1826.0	9975	1824.00	9976.68	1824.00	10008.71	1826.00	10026.13	1828.0	10200
GR	1830.0	10286	1831.5	10445						
ET		3.1	9850	10065						
	3.67	17	9965	10060	420	370	400			
	1840	9530	1838	9545	1836	9565	1834	9608	1832	9695
GR	1832	9750	1832.5	9800	1832	9830	1830	9880	1830	9965
GR	1828	9987	1826	10000	1828	10010	1830	10060	1832	10086
GR	1834	10115	1835.3	10450						
ET		3.1	9850	10050						
X1	3.69	15	9970	10022	100	120	110			
GR	1838	9520	1836	9550	1834	9595	1834	9830	1832	9870
GR	1830	9970	1828	9990	1827	10000	1828	10010	1830	10022
GR	1832	10095	1834	10115	1836	10135	1836	10255	1838	10345
ET		3.1	9850.6	10040.8						
X1	3.73	22	9975.35	10040.42	280	260	270			
GR	1854.0	9230.61	1852.00	9349.56	1850.00	9383.51	1848.00	9406.66	1846.0	9425.86
GR	1844.0	9446.82	1842.00	9468.98	1840.00	9508.06	1838.00	9556.79	1836.0	9672.41
GR	1836.0	9736.19	1836.00	9783.04	1834.00	9816.68	1832.00	9975.35	1830.0	9982.37
GR	1828.0	9990.11	1828.00	9997.26	1830.00	10009.57	1832.00	10040.42	1834.0	10149.59
GR	1836.0	10200.05	1838.00	10444.68						
QT	1	2692			2692					
ET		3.1	9870.8	10050						

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*****************************************************
***  CONCENTRATION POINT 42T - DESERT HILLS WASH  ***
*****************************************************
X1    3.81        9      9977     10042       345       365       350
GR    1838     9780      1836      9808      1834      9977      1832      9988      1832     10012
GR    1834    10042      1836     10073      1838     10110      1840     10150

ET              3.1      9925   10050.9
X1    3.87       22   9982.75  10046.93       480       480       480
GR  1858.0  9310.18   1856.00   9358.15   1854.00   9392.23   1852.00   9415.18    1850.0   9434.26
GR  1848.0  9454.62   1846.00   9479.18   1844.00   9534.12   1842.00   9679.03    1840.0   9722.77
GR  1838.0  9756.34   1838.00   9771.75   1838.00   9866.27   1836.00   9982.75    1834.0   9992.97
GR  1834.0 10011.98   1836.00  10046.93   1838.00  10076.00   1840.00  10094.14      1842     10194
GR  1842.0    10270   1844.00     10390

ET              3.1      9990   10280.9
X1    3.96       16      9975     10058       450       500       500
GR  1843.5     9940      1842      9975      1840      9990      1838      9995      1836     10000
GR    1836    10006      1838     10019      1840     10058      1840     10160    1838.2     10260
GR    1840    10270      1840     10305      1842     10342      1844     10385      1848     10575
GR    1850    10630

ET              3.1    9950.5     10062
X1    4.03       20      9980     10012       330       340       330
GR    1860     9315      1850      9370      1848      9405      1846      9450      1846      9510
GR    1848     9690      1848      9720      1846      9780      1844      9825      1842      9920
GR    1842     9980      1840      9988      1838      9995      1838     10000      1840     10005
GR    1842    10012      1844     10040      1846     10145      1848     10180      1848     10180

       5    0.065   9977.17      0.05  10008.35     0.065  10177.49      0.05     10215     0.065
NH   10645
ET              3.1    9983.3   10300.6
X1    4.14       26   9983.33  10008.35       510       560       570
GR  1860.0  9627.34   1858.00   9634.56   1856.00   9641.81    1854.0   9649.35   1852.00   9659.75
GR    1851  9711.57    1850.3   9745.06    1850.3   9820.27    1850.3   9862.50   1850.00   9957.28
GR  1848.0  9977.17   1846.00   9983.33   1844.00   9989.62    1844.0  10000.72   1846.00  10008.35
GR  1846.0 10147.02   1844.00  10177.49   1842.00  10186.00    1842.0  10189.34   1844.00     10215
GR  1846.0    10315   1848.00  10318.67   1850.00  10358.19      1850     10440    1852.0     10530
GR  1854.0    10645

QT       1     1787                        1787
NC   0.065    0.065      0.05       0.1       0.3
ET              3.1    9900.6     10016
*****************************************************
***  CONCENTRATION POINT 43 - DESERT HILLS WASH  ***
*****************************************************
X1    4.23       16   9966.23  10011.58       492       492       492
GR  1857.6  9708.04   1856.00   9790.41   1854.00   9824.89   1852.00   9862.95   1850.00   9894.56
GR  1849.8  9904.37   1850.00   9915.65   1850.00   9966.23   1848.00   9994.51   1846.40  10000.00
GR  1848.0 10006.25   1850.00  10011.58   1852.00  10017.65   1854.00  10023.47   1856.00  10028.90
GR  1857.6 10051.78
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                3.1      9960     10060
X1     4.28      13      9975     10030       220       350       290
GR     1858    9898      1856      9927      1854      9948      1852      9975      1850      9988
GR     1848   10000      1850     10010      1852     10030      1854     10062      1856     10104
GR     1858   10143      1860     10170      1862     10220

ET                3.1      9967     10250
X1     4.37      14      9975     10060       420       375       380
GR     1866    9935      1858      9965      1856      9975      1854      9987      1854     10003
GR     1856   10060      1858     10140      1859     10260      1858     10290      1856     10305
GR     1856   10322      1858     10335      1860     10355      1862     10395

NC    0.070   0.070     0.055
ET                3.1      9960   10200.5
       ******************************************************
            JUST DOWNSTREAM OF 2-48", 1-60" CMPs WITH
                 HEADWALL BENEATH JOY RANCH ROAD
       ******************************************************
X1     4.39      13      9980     10020       560       420       540
X3       10                                                            1860      1860
GR     1862    9890      1861      9920      1860      9980      1853      9992      1853     10009
GR     1860   10020      1860     10050      1861     10175      1860     10225      1858     10280
GR     1858   10300      1860     10320      1862     10350

ET                3.1      9950     10140
SC    3.012     0.5       3.1         0         4         0        77       1.1      1854      1853
       ******************************************************
            JUST UPSTREAM OF 2-48", 1-60" CMP's WITH
            HEADWALL BENEATH JOY RANCH ROAD.  NO SKEW.
       ******************************************************
X1     4.41      12    9991.9   10009.1        77        77        77
X2                        2    1858.0     1860.5
X3       10                                                         1860.5    1860.5
BT      -12    9685      1868      1868      9720      1866      1866      9745      1864      1864
BT            9785      1862      1862      9970    1860.5    1860.5    9991.9    1860.5    1860.5
BT            9992    1860.5      1858     10009    1860.5      1858   10009.1    1860.5    1860.5
BT           10030      1861      1861     10280      1862      1862     10310      1864      1864
GR     1868    9685      1866      9720      1864      9745      1862      9785    1860.5      9970
GR   1860.5  9991.9      1854      9992      1854     10009    1860.5   10009.1      1861     10030
GR     1862   10280      1864     10310

ET                3.1      9900     10040
X1     4.48      13      9965     10045       130       160       155
GR     1866    9670      1864      9750      1862      9790      1860      9820      1858      9870
GR     1858    9965      1856     10010      1856     10015      1858     10025      1860     10045
GR     1862   10090      1864     10100      1866     10120

ET                3.1      9973     10100
X1     4.53      13      9985     10044       370       430       420
GR     1870    9888      1868      9908      1866      9955      1864      9971      1862      9985
GR     1860    9995    1859.3     10000      1860     10005      1862     10044      1864     10254
GR     1866   10282      1868     10304      1870     10466
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                3.1      9961     10040
X1     4.59      15   9971.20  10018.89       320       300       280
GR   1880.0 9796.09   1878.00   9815.32   1876.00   9827.93   1874.00   9840.36   1872.00   9853.81
GR   1870.0 9870.89   1868.00   9887.03   1866.00   9910.63   1864.00   9971.20   1862.00   9993.08
GR   1861.7 10000.00  1862.00  10004.87   1864.00  10018.89   1866.00  10179.28   1867.50  10203.99

ET              3.1      9969     10060
X1     4.68      13   9978.98  10054.44       435       435       435
GR   1882.0 9902.16   1880.00   9908.06   1878.00   9914.50   1876.00   9922.07   1874.00   9928.71
GR   1872.0 9938.73   1870.00   9951.11   1868.00   9978.98   1867.00  10000.00   1868.00  10054.44
GR   1870.0 10100.54  1872.00  10114.38   1873.30  10178.46

ET              3.1      9954     10050
X1     4.75      10   9954.32  10050.37       390       390       390
GR   1878.0 9759.30   1876.00   9855.16   1874.00   9895.53   1872.00   9954.32   1870.10  10000.00
GR   1872.0 10050.37  1874.00  10089.15   1876.00  10125.85   1878.00  10146.39   1880.00  10178.65

ET              3.1      9975     10075
X1     4.81      13   9978.75  10023.53       250       390       318
GR    1880 9939.78     1878    9951.95      1876   9965.29      1874   9978.75    1873.5     10000
GR    1874 10023.53   1874.5   10038.54     1874  10060.73      1874  10089.26      1876  10106.43
GR    1878 10121.23    1880    10134.40     1882  10199.77

ET              3.1      9980     10047
X1     4.88      16   9985.16  10033.00       365       365       365
GR   1898.0 9858.83   1896.00   9889.50   1894.00   9908.05   1892.00   9915.20   1890.00   9922.07
GR   1888.0 9929.15   1886.00   9936.07   1884.00   9943.84   1882.00   9957.63   1880.00   9970.59
     1878.0 9985.16   1876.00  10000.00   1878.00  10033.00   1880.00  10061.75   1882.00  10079.42
     1884.0 10113.37

ET              3.1      9960     10040
        ********************************************
            CONFLUENCE WITH SMALL, UNNAMED WASH
        ********************************************
X1     4.95      13   9975.82  10028.14       380       380       380
GR   1890.0 9904.06   1888.00   9934.17   1886.00   9948.04   1884.00   9959.47   1882.00   9975.82
GR   1880.0 9993.81   1879.50  10000.00   1880.00  10009.23   1882.00  10028.14   1884.00  10052.17
GR   1886.0 10081.14  1888.00  10113.02   1890.00  10179.95

QT      1     1000                         1000
ET              3.1      9949     10019.9
X1     5.02      14   9979.35  10011.83       330       350       340
GR   1894.0 9859.28   1892.00   9920.22   1890.00   9935.76   1888.00   9944.18   1886.00   9979.35
GR   1884.0 9992.64   1883.50  10000.00   1884.00  10006.71   1886.00  10011.83   1888.00  10019.37
GR   1890.0 10026.31  1892.00  10032.30   1894.00  10067.23   1896.00  10101.41

ET              3.1      9952     10015
X1     5.11      12   9988.06  10013.31       438       438       438
GR   1898.0 9865.32   1896.00   9901.66   1894.00   9935.04   1892.00   9960.26   1890.00   9988.06
GR   1888.7 10000.00  1890.00  10013.31   1892.00  10019.75   1894.00  10024.94   1896.00  10032.10
GR   1898.0 10039.96  1900.00  10050.01
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		3.1	9976	10032						
X1	5.18	11	9986.37	10014.73	370	385	384			
GR	1908.0	9845.50	1906.00	9897.89	1904.00	9919.07	1902.00	9951.44	1900.00	9969.98
GR	1898.0	9978.32	1896.00	9986.37	1894.40	10000.00	1896.00	10014.73	1898.00	10059.83
GR	1900.0	10074.24								
QT	1	1787			1787					
ET		3.1	9961	10040						
X1	-4.95	13	9975.82	10028.14						
GR	1890	9904.06	1888	9934.17	1886	9948.04	1884	9959.47	1882	9975.82
GR	1880	9993.81	1879.50	10000	1880	10009.23	1882	10028.14	1884	10052.17
GR	1886	10081.14	1888	10113.02	1890	10179.95				
QT	1	1000			1000					
ET		3.1	9950	10010						
X1	5.001	13	9955.29	10008.35	240	300	260			
GR	1894.0	9889.40	1892.00	9911.56	1890.00	9924.85	1888.00	9934.52	1886.00	9955.29
GR	1884.0	9996.45	1883.70	10000.00	1884.00	10003.26	1886.00	10008.35	1888.00	10015.15
GR	1890.0	10021.69	1892.00	10030.58	1893.00	10192.29				
ET		3.1	9979.9	10019.8						
X1	5.081	14	9982.79	10023.22	414	414	414			
GR	1900.0	9934.32	1898.00	9969.72	1896.00	9977.51	1894.00	9982.79	1892.00	9990.98
GR	1890.0	9997.80	1889.80	10000.00	1890.00	10002.23	1892.00	10010.22	1894.00	10015.83
GR	1896.0	10023.22	1898.00	10029.95	1900.00	10037.78	1902.00	10043.57		
ET		3.1	9980	10022						
	5.161	12	9981.20	10020.37	380	380	380			
	1908.0	9846.61	1906.00	9904.78	1904.00	9946.85	1902.00	9963.07	1900.00	9981.20
GR	1898.0	10000.00	1900.00	10020.37	1902.00	10039.59	1904.00	10052.61	1906.00	10068.81
GR	1908.0	10085.33	1909.50	10130.30						

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .600 CEHV= .900
1490 NH CARD USED
*SECNO .220

.220	9.20	1743.20	1741.21	1743.20	1743.35	.15	.00	.00	1740.00
13541.0	252.7	1561.0	11727.3	146.4	336.0	4151.7	.0	.0	1740.00
.00	1.73	4.65	2.82	.065	.050	.059	.000	1734.00	9326.00
.002242	150.	140.	250.	0	13	0	.00	1504.50	10830.50

FLOW DISTRIBUTION FOR SECNO= .22 CWSEL= 1743.20

STA=	9326.	9410.	9465.	9600.	9880.	9975.	9990.	10000.	10025.	10100.	10200.	10435.	10625.
PER Q=	1.9	11.5	5.6	11.7	10.8	3.2	3.4	8.6	9.5	5.5	20.5	5.7	
AREA=	146.4	336.0	364.5	756.0	399.0	93.0	82.0	205.0	335.0	290.0	987.0	418.0	
VEL=	1.7	4.6	2.1	2.1	3.7	4.7	5.6	5.7	3.9	2.6	2.8	1.8	
DEPTH=	1.7	6.1	2.7	2.7	4.2	6.2	8.2	8.2	4.5	2.9	4.2	2.2	

STA=	10625.	10830.
PER Q=	1.9	
AREA=	222.3	
VEL=	1.2	
DEPTH=	1.1	

1490 NH CARD USED
*SECNO .310

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

****
THIS SECTION COINCIDES WITH SECTION 2.97 MAIN BRANCH APACHE WASH
****

.310	8.47	1744.47	1743.19	.00	1744.71	.24	1.28	.08	1740.00
13541.0	3724.3	1674.9	8141.8	2180.4	236.8	2206.7	44.0	15.4	1740.00
.03	1.71	7.07	3.69	.114	.050	.065	.000	1736.00	8997.65
.004649	450.	425.	400.	2	14	0	.00	1706.80	10704.44

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .31 CWSEL= 1744.47

STA=	8998.	9750.	9800.	9910.	9984.	10019.	10239.	10511.	10690.	10704.
PER Q=	8.3	3.1	8.2	8.0	12.4	30.7	25.5	3.9	.0	
AREA=	1423.2	136.0	337.8	282.7	236.8	983.6	956.4	263.5	3.3	
VEL=	.8	3.0	3.3	3.8	7.1	4.2	3.6	2.0	.6	
DEPTH=	1.9	2.7	3.1	3.8	6.8	4.5	3.5	1.5	.2	

CCHV= .600 CEHV= .900

*SECNO .400

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*************************************************************************
   THIS IS THE FIRST SECTION OF THE DESERT HILLS WASH: END CONFLUENCE
   THIS LOCATION IS JUST UPSTREAM OF THE CONFLUENCE WITH MAIN BRANCH
   FLOW IS RECEIVED FROM MAIN BRANCH APACHE WASH SPLIT FLOW
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.400	8.40	1746.40	1744.73	.00	1746.63	.24	1.92	.00	1742.00
10465.0	5456.0	2214.5	2794.5	1756.8	366.9	897.3	84.8	29.2	1742.00
.07	3.11	6.04	3.11	.065	.050	.065	.000	1738.00	9342.55
.003370	380.	478.	570.	2	14	0	.00	956.38	10298.93

FLOW DISTRIBUTION FOR SECNO= .40 CWSEL= 1746.40

STA=	9343.	9402.	9611.	9720.	9950.	9967.	10022.	10104.	10241.	10291.	10299.
PER Q=	.1	4.6	10.6	34.3	2.5	21.2	12.3	13.3	1.1	.0	
AREA=	11.8	290.9	371.5	1007.9	74.6	366.9	360.5	465.0	69.9	1.9	
VEL=	.4	1.7	3.0	3.6	3.6	6.0	3.6	3.0	1.7	.5	
DEPTH=	.2	1.4	3.4	4.4	4.4	6.6	4.4	3.4	1.4	.2	

*SECNO .480

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*************************************************************************
   FLOW IS RECEIVED FROM MAIN BRANCH APACHE WASH SPLIT FLOW
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.480	7.54	1747.54	1745.52	.00	1747.70	.16	1.02	.05	1742.00
10453.0	4094.3	1272.5	5086.2	1562.0	236.9	1748.7	111.8	37.4	1742.00
.10	2.62	5.37	2.91	.065	.050	.065	.000	1740.00	9448.44
.002423	400.	382.	300.	2	18	0	.00	1018.48	10466.93

FLOW DISTRIBUTION FOR SECNO= .48 CWSEL= 1747.54

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9448.	9560.	9775.	9980.	10013.	10335.	10440.	10467.
PER Q=	.8	10.9	27.5	12.2	43.1	5.3	.2	
AREA=	85.8	545.8	930.3	236.9	1461.4	266.6	20.7	
VEL=	.9	2.1	3.1	5.4	3.1	2.1	.9	
DEPTH=	.8	2.5	4.5	7.2	4.5	2.5	.8	

*SECNO .560

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FLOW IS RECEIVED FROM MAIN BRANCH APACHE WASH SPLIT FLOW

****

.560	8.52	1748.52	1746.77	.00	1748.69	.17	.98	.01	1744.00
10264.0	6674.5	1407.2	2182.4	2449.7	243.9	806.6	142.1	46.8	1744.00
.13	2.72	5.77	2.71	.065	.050	.065	.000	1740.00	9095.58
.002764	320.	436.	450.	3	9	0	.00	1211.85	10307.43

FLOW DISTRIBUTION FOR SECNO= .56 CWSEL= 1748.52

STA=	9096.	9200.	9475.	9600.	9615.	9730.	9987.	10019.	10081.	10086.	10180.	10292.	10307.
PER Q=	.1	6.5	11.9	2.2	13.7	30.6	13.7	9.0	.6	9.0	2.7	.0	
AREA=	27.3	418.6	440.3	67.8	462.5	1033.2	243.9	280.4	18.9	332.3	171.1	3.9	
VEL=	.5	1.6	2.8	3.3	3.0	3.0	5.8	3.3	3.3	2.8	1.6	.5	
DEPTH=	.3	1.5	3.5	4.5	4.0	4.0	7.5	4.5	4.5	3.5	1.5	.3	

*SECNO .640

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*** CONCENTRATION POINT F5T - DESERT HILLS WASH ***

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.640	7.71	1749.71	1748.39	.00	1749.93	.23	1.19	.05	1746.00
10259.0	3957.9	1611.4	4689.7	1325.6	253.9	1437.7	168.0	55.6	1746.00
.16	2.99	6.35	3.26	.065	.050	.065	.000	1742.00	9445.01
.004106	270.	450.	450.	2	13	0	.00	1056.99	10502.00

FLOW DISTRIBUTION FOR SECNO= .64 CWSEL= 1749.71

STA=	9445.	9590.	9825.	9920.	9978.	10018.	10130.	10220.	10280.	10290.	10305.	10415.	10502.
PER Q=	1.6	17.6	12.0	7.3	15.7	14.2	11.4	7.6	1.3	2.0	8.3	1.0	
AREA=	123.7	635.9	352.1	214.0	253.9	414.8	333.5	222.3	38.1	57.1	297.6	74.2	
VEL=	1.3	2.8	3.5	3.5	6.3	3.5	3.5	3.5	3.6	3.6	2.8	1.3	
DEPTH=	.9	2.7	3.7	3.7	6.3	3.7	3.7	3.7	3.8	3.8	2.7	.9	

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .720

.720	7.29	1751.29	1750.19	.00	1751.59	.29	1.59	.06	1748.00
10259.0	1357.2	1353.4	7548.4	500.5	187.7	1945.8	189.6	63.5	1748.00
.18	2.71	7.21	3.88	.065	.050	.065	.000	1744.00	9687.08
.005541	340.	373.	325.	2	14	0	.00	1006.81	10693.88

FLOW DISTRIBUTION FOR SECNO= .72 CWSEL= 1751.29

STA=	9687.	9800.	9987.	10017.	10081.	10315.	10380.	10510.	10610.	10694.
PER Q=	.9	12.3	13.2	7.8	42.2	11.7	8.6	2.5	.7	
AREA=	72.9	427.7	187.7	213.5	979.0	272.4	297.8	129.1	54.1	
VEL=	1.3	3.0	7.2	3.8	4.4	4.4	3.0	2.0	1.3	
DEPTH=	.6	2.3	6.3	3.3	4.2	4.2	2.3	1.3	.6	

*SECNO .810

.810	7.58	1753.58	1752.24	.00	1753.85	.27	2.25	.02	1750.00
10259.0	2062.0	1520.0	6677.0	633.7	225.9	1857.7	216.6	73.3	1750.00
.21	3.25	6.73	3.59	.065	.050	.065	.000	1746.00	9740.09
.004778	550.	492.	400.	1	9	0	.00	910.11	10650.19

DISTRIBUTION FOR SECNO= .81 CWSEL= 1753.58

STA=	9740.	9779.	9805.	9884.	9884.	9984.	10018.	10035.	10036.	10105.	10270.	10535.	10650.
PER Q=	.4	.9	5.9	.0	12.9	14.8	2.3	.0	12.3	29.3	19.9	1.2	
AREA=	31.0	41.9	203.3	.6	356.9	225.9	62.6	.4	301.2	715.9	686.0	91.5	
VEL=	1.4	2.2	3.0	3.7	3.7	6.7	3.7	3.7	4.2	4.2	3.0	1.4	
DEPTH=	.8	1.6	2.6	3.6	3.6	6.6	3.6	3.6	4.3	4.3	2.6	.8	

*SECNO .900

.900	7.88	1755.88	1754.42	.00	1756.16	.29	2.29	.02	1750.00
10259.0	3979.6	1188.3	5091.1	986.1	157.9	1516.5	246.7	83.1	1750.00
.25	4.04	7.52	3.36	.065	.050	.065	.000	1748.00	9731.92
.004639	500.	491.	480.	2	9	0	.00	855.55	10587.47

FLOW DISTRIBUTION FOR SECNO= .90 CWSEL= 1755.88

STA=	9732.	9832.	9950.	9996.	10018.	10038.	10236.	10411.	10587.
PER Q=	6.2	21.1	11.5	11.6	3.2	28.6	15.4	2.4	
AREA=	219.0	520.0	247.1	157.9	83.2	764.8	503.5	165.0	
VEL=	2.9	4.2	4.8	7.5	3.9	3.8	3.1	1.5	
DEPTH=	2.2	4.4	5.4	7.5	4.1	3.9	2.9	.9	

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .990
     .990      9.75   1757.75   1755.96       .00   1757.93       .18      1.70       .06   1752.00
   10259.0    4580.3    1193.9    4484.8    1500.9     203.3    1574.2     278.2      93.1   1752.00
      .29      3.05      5.87      2.85      .065      .050      .065      .000   1748.00   9506.79
   .002977     490.      470.      440.         2         5         0       .00   1035.92  10542.71


FLOW DISTRIBUTION FOR SECNO=       .99          CWSEL=   1757.75

STA=    9507.    9641.    9732.    9738.    9814.    9988.   10013.   10163.   10424.   10451.   10470.   10543.
  PER Q=      1.3      6.0       .6      8.4     28.4     11.6     24.5     17.1       .8       .6       .7
   AREA=    117.1    251.2     20.9    285.0    826.7    203.3    713.8    716.4     47.6     33.0     63.4
    VEL=      1.1      2.4      3.0      3.0      3.5      5.9      3.5      2.4      1.8      1.8      1.1
  DEPTH=       .9      2.7      3.7      3.7      4.7      8.3      4.7      2.7      1.7      1.7       .9

*SECNO 1.100
        ****************************************************
        ***  CONCENTRATION POINT F3T - DESERT HILLS WASH  ***
        ****************************************************
    1.100      7.62   1759.62   1757.74       .00   1759.91       .29      1.88       .10   1754.00
   9657.0    4649.7    1397.1    3610.2    1177.7     200.6    1056.3     314.2     104.2   1754.00
      .32      3.95      6.96      3.42      .065      .050      .065      .000   1752.00   9679.34
   .004041     500.      553.      600.         2        14         0       .00    706.81  10386.15


FLOW DISTRIBUTION FOR SECNO=      1.10          CWSEL=   1759.62

STA=    9679.    9732.    9789.    9920.    9925.    9988.   10015.   10156.   10278.   10386.
  PER Q=       .5      4.3     25.3      1.2     16.8     14.5     27.2      9.1      1.1
   AREA=     42.1    150.4    606.5     26.0    352.6    200.6    651.7    316.9     87.7
    VEL=      1.3      2.8      4.0      4.6      4.6      7.0      4.0      2.8      1.3
  DEPTH=       .8      2.6      4.6      5.6      5.6      7.3      4.6      2.6       .8

*SECNO 1.190
    1.190      7.73   1761.73   1760.07       .00   1762.10       .38      2.12       .08   1756.00
   9657.0    2091.9    1687.7    5877.4     523.7     217.1    1430.1     339.3     111.5   1756.00
      .35      3.99      7.77      4.11      .065      .050      .065      .000   1754.00   9825.16
   .004907     550.      491.      420.         2        15         0       .00    651.71  10476.87
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.19 CWSEL= 1761.73

STA=	9825.	9864.	9908.	9987.	10016.	10085.	10117.	10187.	10332.	10477.
PER Q=	.5	3.9	17.3	17.5	21.0	9.8	15.4	12.7	1.9	
AREA=	33.7	119.9	370.1	217.1	395.7	184.7	330.9	393.6	125.2	
VEL=	1.4	3.1	4.5	7.8	5.1	5.1	4.5	3.1	1.5	
DEPTH=	.9	2.7	4.7	7.4	5.7	5.7	4.7	2.7	.9	

*SECNO 1.290

****
14TH STREET
****

1.290	7.71	1763.71	1761.54	.00	1764.00	.30	1.85	.05	1758.00
9560.0	3920.8	4085.6	1553.7	1289.2	710.5	595.7	367.5	119.7	1758.00
.38	3.04	5.75	2.61	.065	.050	.065	.000	1756.00	9560.64
.002745	530.	515.	500.	2	19	0	.00	743.13	10303.78

FLOW DISTRIBUTION FOR SECNO= 1.29 CWSEL= 1763.71

STA=	9561.	9680.	9745.	9960.	10060.	10115.	10210.	10304.
PER Q=	1.1	4.3	35.6	42.7	9.1	6.3	.9	
AREA=	101.8	175.8	1011.6	710.5	258.8	257.0	80.0	
VEL=	1.1	2.3	3.4	5.8	3.4	2.3	1.1	
DEPTH=	.9	2.7	4.7	7.1	4.7	2.7	.9	

*SECNO 1.350

****
*** CONCENTRATION POINT F2T - DESERT HILLS WASH ***
****

1.350	8.67	1764.67	1762.75	.00	1764.83	.15	.74	.09	1760.00
9171.0	5441.6	1100.7	2628.7	2055.2	204.3	956.9	385.7	125.3	1760.00
.41	2.65	5.39	2.75	.065	.050	.065	.000	1756.00	9298.05
.002526	200.	329.	400.	2	9	0	.00	1047.20	10345.25

FLOW DISTRIBUTION FOR SECNO= 1.35 CWSEL= 1764.67

STA=	9298.	9591.	9835.	9927.	9986.	10014.	10055.	10070.	10195.	10302.	10345.
PER Q=	7.9	26.8	15.1	9.5	12.0	6.7	3.5	15.2	3.2	.1	
AREA=	453.8	897.5	432.1	271.9	204.3	190.1	89.1	484.1	178.9	14.7	
VEL=	1.6	2.7	3.2	3.2	5.4	3.2	3.6	2.9	1.6	.6	
DEPTH=	1.6	3.7	4.7	4.7	7.2	4.7	5.7	3.9	1.7	.3	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.400

1.400	7.65	1765.65	1764.61	.00	1765.90	.25	.98	.09	1762.00
9171.0	3951.3	1307.2	3912.4	1287.7	188.2	1134.4	404.7	132.1	1762.00
.43	3.07	6.95	3.45	.065	.050	.065	.000	1758.00	9410.07
.005040	270.	265.	310.	2	13	0	.00	1033.80	10443.87

FLOW DISTRIBUTION FOR SECNO= 1.40 CWSEL= 1765.65

STA=	9410.	9480.	9629.	9746.	9832.	9971.	9987.	10017.	10038.	10217.	10337.	10444.
PER Q=	.9	6.1	4.7	7.7	21.3	2.4	14.3	3.2	27.3	10.7	1.4	
AREA=	57.5	245.7	191.5	227.0	509.3	56.8	188.2	76.8	652.0	317.3	88.3	
VEL=	1.4	2.3	2.3	3.1	3.8	3.8	6.9	3.8	3.8	3.1	1.4	
DEPTH=	.8	1.6	1.6	2.6	3.6	3.6	6.3	3.6	3.6	2.6	.8	

*SECNO 1.480

1.480	9.46	1767.46	1766.02	.00	1767.69	.23	1.79	.01	1762.00
9171.0	2957.0	1302.5	4911.5	842.4	199.0	1601.5	428.9	140.9	1764.00
.46	3.51	6.54	3.07	.065	.050	.065	.000	1758.00	9713.13
.003934	450.	427.	360.	2	9	0	.00	879.36	10592.49

DISTRIBUTION FOR SECNO= 1.48 CWSEL= 1767.46

STA=	9713.	9788.	9841.	9989.	10017.	10041.	10381.	10491.	10592.
PER Q=	.7	3.7	27.9	14.2	2.9	42.0	7.7	.9	
AREA=	54.3	129.8	658.3	199.0	82.1	1175.9	269.8	73.7	
VEL=	1.2	2.6	3.9	6.5	3.3	3.3	2.6	1.2	
DEPTH=	.7	2.5	4.5	7.0	3.5	3.5	2.5	.7	

*SECNO 1.580

****
12TH STREET LIES BETWEEN SECTIONS 1.58 AND 1.65
****

1.580	6.98	1768.98	1767.39	.00	1769.12	.13	1.36	.06	1766.00
9171.0	5922.8	718.7	2529.5	2132.6	142.3	1042.2	454.4	149.9	1766.00
.50	2.78	5.05	2.43	.065	.050	.065	.000	1762.00	9211.50
.003263	420.	507.	300.	2	14	0	.00	1279.03	10490.52

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.58 CWSEL= 1768.98

STA=	9211.	9490.	9700.	9740.	9825.	9840.	9920.	9985.	10011.	10086.	10133.	10240.	10400.
PER Q=	9.6	18.4	4.4	12.0	3.1	11.4	5.7	7.8	6.6	4.1	9.4	7.1	
AREA=	449.0	625.5	135.1	336.2	74.7	318.3	193.8	142.3	223.5	138.4	319.4	316.6	
VEL=	2.0	2.7	3.0	3.3	3.8	3.3	2.7	5.1	2.7	2.7	2.7	2.1	
DEPTH=	1.6	3.0	3.4	4.0	5.0	4.0	3.0	5.4	3.0	3.0	3.0	2.0	

STA=	10400.	10491.
PER Q=	.4	
AREA=	44.3	
VEL=	.8	
DEPTH=	.5	

*SECNO 1.650

1.650	6.48	1770.48	1769.01	.00	1770.69	.21	1.50	.07	1768.00
9171.0	7799.0	796.9	575.2	2265.1	134.9	289.6	481.6	160.8	1768.00
.53	3.44	5.91	1.99	.065	.050	.065	.000	1764.00	9201.22
.004729	350.	398.	540.	2	13	0	.00	1033.85	10235.08

FLOW DISTRIBUTION FOR SECNO= 1.65 CWSEL= 1770.48

STA=	9201.	9255.	9400.	9761.	9986.	10011.	10180.	10196.	10204.	10204.	10215.	10235.
PER Q=	.1	4.8	49.3	30.8	8.7	5.5	.1	.3	.0	.3	.0	
AREA=	12.9	214.9	1253.9	783.4	134.9	248.9	7.7	11.9	.6	15.7	4.9	
VEL=	.6	2.0	3.6	3.6	5.9	2.0	1.0	2.0	2.9	2.0	.6	
DEPTH=	.2	1.5	3.5	3.5	5.4	1.5	.5	1.5	2.5	1.5	.2	

*SECNO 1.720

1.720	6.31	1772.31	1771.15	.00	1772.54	.22	1.84	.01	1768.00
9171.0	7546.4	738.8	885.8	2133.2	116.3	335.8	503.3	169.2	1770.00
.56	3.54	6.35	2.64	.065	.050	.065	.000	1766.00	9227.38
.005575	350.	385.	420.	2	14	0	.00	981.10	10208.48

FLOW DISTRIBUTION FOR SECNO= 1.72 CWSEL= 1772.31

STA=	9227.	9240.	9280.	9329.	9330.	9520.	9993.	10016.	10038.	10108.	10200.	10208.
PER Q=	.0	.5	2.5	.1	14.3	64.9	8.1	1.7	5.2	2.7	.0	
AREA=	2.0	32.6	89.0	2.3	439.6	1567.8	116.3	52.6	160.3	121.6	1.3	
VEL=	.5	1.5	2.5	3.0	3.0	3.8	6.4	3.0	3.0	2.0	.5	
DEPTH=	.2	.8	1.8	2.3	2.3	3.3	5.1	2.3	2.3	1.3	.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.810

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*********************************************************************
   THIS SECTION IS JUST DOWNSTREAM OF CONFLUENCE WITH JONATHAN WASH
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*******************************************************************
***  CONCENTRATION POINT 40MT (WASH TOTAL) - DESERT HILLS WASH  ***
*******************************************************************
```

1.810	6.31	1774.31	1773.00	.00	1774.50	.20	1.95	.02	1770.00
8890.0	6670.4	718.6	1501.1	2064.6	113.8	497.2	526.7	178.1	1770.00
.59	3.23	6.31	3.02	.065	.050	.065	.000	1768.00	9215.75
.004532	390.	426.	360.	1	14	0	.00	1028.08	10243.83

FLOW DISTRIBUTION FOR SECNO= 1.81 CWSEL= 1774.31

STA=	9216.	9250.	9350.	9449.	9450.	9993.	10012.	10025.	10028.	10111.	10225.	10244.
PER Q=	.0	1.2	4.6	.1	69.1	8.1	2.5	.7	10.6	3.1	.0	
AREA=	5.3	81.1	179.3	2.3	1796.5	113.8	54.8	14.4	275.4	149.7	2.9	
VEL=	.4	1.3	2.3	2.7	3.4	6.3	4.1	4.1	3.4	1.8	.4	
DEPTH=	.2	.8	1.8	2.3	3.3	5.9	4.3	4.3	3.3	1.3	.2	

NH CARD USED
SECNO 1.850

1.850	7.28	1775.28	1773.61	.00	1775.42	.13	.88	.04	1772.00
8890.0	4926.6	507.5	3455.9	1840.6	105.3	1169.3	542.2	183.7	1772.00
.61	2.68	4.82	2.96	.065	.050	.064	.000	1768.00	9323.45
.003151	250.	260.	190.	2	9	0	.00	1074.97	10398.41

FLOW DISTRIBUTION FOR SECNO= 1.85 CWSEL= 1775.28

STA=	9323.	9541.	9989.	10009.	10134.	10185.	10206.	10261.	10360.	10398.
PER Q=	8.5	46.9	5.7	13.0	5.4	6.6	7.5	6.1	.3	
AREA=	369.3	1471.3	105.3	408.0	169.2	131.9	199.2	236.4	24.6	
VEL=	2.1	2.8	4.8	2.8	2.8	4.4	3.3	2.3	1.0	
DEPTH=	1.7	3.3	5.3	3.3	3.3	6.4	3.6	2.4	.6	

1490 NH CARD USED
*SECNO 1.950

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .45

1.950	6.73	1776.73	1775.57	.00	1776.81	.09	1.37	.03	1774.00
4143.0	2728.1	391.3	1023.6	1149.3	90.4	1785.9	569.6	195.1	1774.00
.67	2.37	4.33	.57	.065	.050	.261	.000	1770.00	9498.92
.003323	500.	500.	270.	2	17	0	.00	1573.79	11072.71

FLOW DISTRIBUTION FOR SECNO= 1.95 CWSEL= 1776.73

STA=	9499.	9993.	10015.	10300.	11073.
PER Q=	65.8	9.4	22.6	2.2	
AREA=	1149.3	90.4	492.5	1293.4	
VEL=	2.4	4.3	1.9	.1	
DEPTH=	2.3	4.1	1.7	1.7	

CCHV= .600 CEHV= .900
*SECNO 2.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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*******************************************************************
     JUST DOWNSTREAM OF 3-10'X5'X60' CBC'S WITH HEAD AND WINGWALLS
     BENEATH CAREFREE HIGHGWAY.
*****************************************
*******************************************************************
***  CONCENTRATION POINT 40T (BASIN TOTAL) - DESERT HILLS WASH  ***
*******************************************************************
```

2.000	7.34	1779.24	1779.24	.00	1779.78	.53	1.15	.40	1778.00
4143.0	275.6	1899.6	1967.8	165.8	228.9	850.6	581.2	202.3	1778.00
.68	1.66	8.30	2.31	.065	.050	.065	.000	1771.90	9718.50
.008219	210.	235.	250.	0	8	0	.00	1042.20	10760.70

FLOW DISTRIBUTION FOR SECNO= 2.00 CWSEL= 1779.24

STA=	9718.	9765.	9980.	10012.	10280.	10630.	10761.
PER Q=	.1	6.6	45.9	19.3	25.2	3.0	
AREA=	5.7	160.1	228.9	333.6	435.7	81.3	
VEL=	.5	1.7	8.3	2.4	2.4	1.5	
DEPTH=	.1	.7	7.2	1.2	1.2	.6	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL CULVERT

SC	CUNO	CUNV	ENTLC	COFQ	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
	3	.012	.50	3.10	.00	5.00	10.00	60.00	11	2	1772.10	1771.90

CHART 11 - BOX CULVERT; SKEWED HEADWALL; CHAMFERED OR BEVELED INLET EDGES
SCALE 2 - HEADWALL SKEWED 30 DEGREES; INLET EDGES CHAMFERED 3/4-INCH

5130, EGIC= 1808.04..MAY BE TOO LARGE IF INLET CONTROLS.
5135, EGOC= 1798.52 ..MAY BE TOO LARGE IF OUTLET CONTROLS.
*SECNO 2.010
SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
1808.04	1798.52	-.35	2699.	1420.	9.879	150.0	1778.00	927.

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

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*********************************************************************
     JUST UPSTREAM OF 3-10'X5'X60 CBC'S WITH HEAD AND WINGWALLS.
     WEIR FLOW IS PRIMARILY WEST OF BOX CULVERT.  CULVERT SKEWED
     25 DEG. RIGHT TO THE ROAD. CULVERT NOT SKEWED WITH RESPECT
     TO THE CHANNEL.
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2.010	8.28	1780.38	1780.38	.00	1781.29	.91	.09	-.44	1779.00
4143.0	259.5	2468.1	1415.4	398.3	249.8	1603.2	583.6	203.9	1779.00
.68	.65	9.88	.88	.065	.012	.065	.000	1772.10	9632.55
.000608	60.	60.	60.	20	8	0	.00	1289.97	10922.53

FLOW DISTRIBUTION FOR SECNO= 2.01 CWSEL= 1780.38

STA=	9633.	9665.	9765.	9985.	10016.	10290.	10590.	10850.	10923.
PER Q=	.0	1.1	5.1	59.6	10.7	17.3	6.1	.1	
AREA=	6.2	88.2	304.0	249.8	515.6	714.5	359.2	13.8	
VEL=	.2	.5	.7	9.9	.9	1.0	.7	.2	
DEPTH=	.2	.9	1.4	8.1	1.9	2.4	1.4	.2	

*SECNO 2.050

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.68

2.050	7.89	1781.89	1778.20	.00	1781.90	.01	.08	.54	1776.00
4143.0	1001.8	147.0	2994.1	1169.6	94.7	3407.3	601.8	210.5	1776.00
.75	.86	1.55	.88	.065	.050	.065	.000	1774.00	9651.99
.000214	130.	215.	260.	2	8	0	.00	1289.54	10941.53

FLOW DISTRIBUTION FOR SECNO= 2.05 CWSEL= 1781.89

STA=	9652.	9723.	9730.	9820.	9824.	9991.	10004.	10540.	10751.	10942.
PER Q=	.5	.2	4.2	.3	18.9	3.5	60.9	10.0	1.4	
AREA=	66.5	13.6	259.0	16.2	814.3	94.7	2619.4	608.3	179.6	
VEL=	.3	.5	.7	.8	1.0	1.6	1.0	.7	.3	
DEPTH=	.9	1.9	2.9	3.9	4.9	7.2	4.9	2.9	.9	

*SECNO 2.150

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .24

2.150	4.16	1782.16	1781.17	.00	1782.32	.17	.28	.14	1780.00
4143.0	201.3	2261.2	1680.4	128.9	561.1	817.2	637.9	222.8	1780.00
.80	1.56	4.03	2.06	.065	.050	.065	.000	1778.00	9727.27
.003858	510.	500.	510.	2	19	0	.00	819.84	10547.10

FLOW DISTRIBUTION FOR SECNO= 2.15 CWSEL= 1782.16

STA=	9727.	9843.	10017.	10026.	10249.	10520.	10547.
PER Q=	4.9	54.6	1.2	27.5	11.9	.0	
AREA=	128.9	561.1	20.2	480.3	314.4	2.2	
VEL=	1.6	4.0	2.4	2.4	1.6	.3	
DEPTH=	1.1	3.2	2.2	2.2	1.2	.1	

*SECNO 2.240

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .70

2.240	4.22	1784.22	1783.55	.00	1784.41	.19	2.07	.02	1782.00
4143.0	1703.1	539.6	1900.3	564.1	89.8	689.0	651.0	231.0	1782.00
.83	3.02	6.01	2.76	.065	.050	.065	.000	1780.00	9632.63
.007986	525.	270.	400.	4	9	0	.00	871.42	10504.05

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.24 CWSEL= 1784.22

STA=	9633.	9654.	9835.	9987.	9988.	10014.	10055.	10130.	10480.	10504.
PER Q=	.0	12.5	28.4	.2	13.0	7.7	14.0	24.2	.0	
AREA=	2.4	221.5	338.0	2.2	89.8	91.2	166.8	428.3	2.7	
VEL=	.5	2.3	3.5	3.5	6.0	3.5	3.5	2.3	.5	
DEPTH=	.1	1.2	2.2	2.2	3.5	2.2	2.2	1.2	.1	

*SECNO 2.340

2.340	5.02	1787.22	1786.19	.00	1787.38	.16	2.96	.02	1784.00
4143.0	2756.9	435.5	950.6	939.0	82.6	370.4	666.1	239.3	1784.00
.87	2.94	5.27	2.57	.065	.050	.065	.000	1782.20	9589.25
.004852	480.	500.	480.	2	10	0	.00	629.17	10218.42

FLOW DISTRIBUTION FOR SECNO= 2.34 CWSEL= 1787.22

STA=	9589.	9620.	9710.	9990.	10010.	10160.	10218.
PER Q=	.5	8.6	57.4	10.5	21.9	1.0	
AREA=	18.9	155.7	764.4	82.6	334.5	35.9	
VEL=	1.2	2.3	3.1	5.3	2.7	1.2	
DEPTH=	.6	1.7	2.7	4.1	2.2	.6	

*SECNO 2.430

2.430	5.28	1790.28	1789.86	.00	1790.63	.35	3.07	.17	1788.00
4143.0	3060.5	1073.7	8.8	905.7	146.2	3.9	679.2	245.5	1788.00
.90	3.38	7.34	2.24	.065	.050	.065	.000	1785.00	9490.31
.009327	460.	490.	490.	2	10	0	.00	533.39	10023.69

FLOW DISTRIBUTION FOR SECNO= 2.43 CWSEL= 1790.28

STA=	9490.	9500.	9535.	9735.	9865.	9960.	9985.	10020.	10023.
PER Q=	.0	2.8	27.8	18.1	20.0	5.3	25.9	.2	
AREA=	1.3	44.7	355.4	231.0	216.3	56.9	146.2	3.8	
VEL=	.6	2.6	3.2	3.2	3.8	3.8	7.3	2.3	
DEPTH=	.1	1.3	1.8	1.8	2.3	2.3	4.2	1.3	

*SECNO 2.530

2.530	5.63	1793.63	1792.52	.00	1793.87	.24	3.19	.06	1790.00
4143.0	595.9	577.6	2969.4	213.4	92.7	830.3	690.1	250.2	1790.00
.93	2.79	6.23	3.58	.065	.050	.065	.000	1788.00	9868.18
.005833	400.	500.	450.	2	9	0	.00	434.00	10302.18

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.53 CWSEL= 1793.63

STA=	9868.	9905.	9950.	9990.	10010.	10060.	10260.	10285.	10302.
PER Q=	1.1	4.5	8.7	13.9	14.2	52.2	4.8	.5	
AREA=	30.1	75.9	107.4	92.7	156.8	597.2	62.2	14.1	
VEL=	1.5	2.5	3.4	6.2	3.7	3.6	3.2	1.5	
DEPTH=	.8	1.7	2.7	4.6	3.1	3.0	2.5	.8	

*SECNO 2.610

2.610	6.56	1796.56	1795.99	.00	1796.83	.27	2.93	.03	1794.00
4143.0	193.2	1037.7	2912.1	77.2	154.5	1004.5	702.8	256.1	1794.00
.97	2.50	6.72	2.90	.065	.050	.065	.000	1790.00	9933.05
.006798	450.	460.	470.	3	8	0	.00	673.38	10606.43

FLOW DISTRIBUTION FOR SECNO= 2.61 CWSEL= 1796.56

STA=	9933.	9938.	9987.	10020.	10073.	10173.	10556.	10606.
PER Q=	.0	4.6	25.0	11.6	21.8	36.6	.3	
AREA=	1.5	75.7	154.5	136.1	255.8	598.6	14.1	
VEL=	.8	2.5	6.7	3.5	3.5	2.5	.8	
DEPTH=	.3	1.6	4.7	2.6	2.6	1.6	.3	

*SECNO 2.710

2.710	5.45	1799.45	1798.70	.00	1799.63	.19	2.75	.05	1796.00
4143.0	1699.2	789.0	1654.7	557.7	136.6	744.4	717.9	264.1	1796.00
1.01	3.05	5.78	2.22	.065	.050	.065	.000	1794.00	9735.51
.004646	500.	500.	490.	3	14	0	.00	747.84	10483.36

FLOW DISTRIBUTION FOR SECNO= 2.71 CWSEL= 1799.45

STA=	9736.	9815.	9900.	9911.	9985.	10013.	10108.	10188.	10248.	10360.	10440.	10483.
PER Q=	1.7	14.2	3.2	21.9	19.0	15.9	5.5	4.2	7.8	5.5	.9	
AREA=	57.4	207.8	37.6	254.8	136.6	233.5	115.2	87.4	161.9	115.0	31.3	
VEL=	1.3	2.8	3.6	3.6	5.8	2.8	2.0	2.0	2.0	2.0	1.3	
DEPTH=	.7	2.4	3.4	3.4	4.9	2.4	1.4	1.4	1.4	1.4	.7	

*SECNO 2.790

2.790	7.58	1801.58	1800.92	.00	1801.98	.40	2.15	.19	1798.00
4143.0	1856.7	1159.5	1126.8	554.8	146.7	325.6	728.6	269.5	1798.00
1.03	3.35	7.90	3.46	.065	.050	.065	.000	1794.00	9691.65
.007298	310.	400.	440.	1	14	0	.00	475.27	10166.92

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.79 CWSEL= 1801.58

STA=	9692.	9804.	9986.	10011.	10125.	10167.
PER Q=	3.6	41.3	28.0	25.9	1.3	
AREA=	88.5	466.3	146.7	292.2	33.3	
VEL=	1.7	3.7	7.9	3.7	1.7	
DEPTH=	.8	2.6	5.8	2.6	.8	

*SECNO 2.870

2.870	6.40	1804.40	1803.38	.00	1804.62	.22	2.53	.11	1802.00
4143.0	117.1	1432.8	2593.0	58.9	280.0	919.3	739.7	274.8	1802.00
1.07	1.99	5.12	2.82	.065	.050	.065	.000	1798.00	9946.61
.004847	500.	450.	380.	2	14	0	.00	612.77	10559.39

FLOW DISTRIBUTION FOR SECNO= 2.87 CWSEL= 1804.40

STA=	9947.	9990.	10060.	10065.	10068.	10073.	10138.	10143.	10312.	10467.	10559.
PER Q=	2.8	34.6	.7	.9	2.1	19.2	.9	28.0	10.5	.2	
AREA=	58.9	280.0	10.9	11.7	20.3	221.0	12.8	405.8	218.3	18.6	
VEL=	2.0	5.1	2.9	3.3	4.3	3.6	2.9	2.9	2.0	.5	
DEPTH=	1.4	4.0	2.4	3.4	4.4	3.4	2.4	2.4	1.4	.2	

SECNO 2.960

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

2.960	5.14	1807.14	1806.83	.00	1807.37	.23	2.74	.01	1804.00
4143.0	594.3	477.6	3071.1	229.6	62.6	1008.6	751.6	282.1	1804.00
1.10	2.59	7.63	3.05	.065	.050	.065	.000	1802.00	9787.92
.010112	380.	400.	410.	4	17	0	.00	969.52	10757.43

FLOW DISTRIBUTION FOR SECNO= 2.96 CWSEL= 1807.14

STA=	9788.	9812.	9980.	9991.	10006.	10218.	10623.	10647.	10757.
PER Q=	.5	11.7	2.1	11.5	41.9	28.1	1.7	2.4	
AREA=	13.7	192.3	23.5	62.6	454.1	463.4	28.0	63.1	
VEL=	1.6	2.5	3.8	7.6	3.8	2.5	2.5	1.6	
DEPTH=	.6	1.1	2.1	4.2	2.1	1.1	1.1	.6	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.040

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

3.040	3.92	1809.92	1809.10	.00	1810.05	.13	2.62	.06	1808.00
4143.0	57.2	737.7	3348.1	36.0	164.0	1390.3	764.1	290.1	1808.00
1.14	1.59	4.50	2.41	.065	.050	.065	.000	1806.00	9924.92
.005091	390.	400.	370.	2	14	0	.00	902.39	10827.31

FLOW DISTRIBUTION FOR SECNO= 3.04 CWSEL= 1809.92

STA=	9925.	9962.	10015.	10048.	10244.	10647.	10647.	10827.
PER Q=	1.4	17.8	3.9	22.9	47.3	.0	6.7	
AREA=	36.0	164.0	63.4	376.6	776.6	.4	173.3	
VEL=	1.6	4.5	2.5	2.5	2.5	2.5	1.6	
DEPTH=	1.0	3.1	1.9	1.9	1.9	1.9	1.0	

*SECNO 3.130

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

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***  CONCENTRATION POINT 41T - DESERT HILLS WASH  ***
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3.130	4.76	1812.76	1812.28	.00	1813.08	.32	2.86	.17	1810.00
3669.0	1318.0	895.2	1455.8	349.8	128.1	488.8	777.0	297.5	1810.00
1.16	3.77	6.99	2.98	.065	.050	.065	.000	1808.00	9790.43
.008957	440.	440.	440.	3	8	0	.00	563.08	10353.50

FLOW DISTRIBUTION FOR SECNO= 3.13 CWSEL= 1812.76

STA=	9790.	9901.	9936.	9985.	10018.	10262.	10354.
PER Q=	8.7	11.4	15.8	24.4	37.0	2.7	
AREA=	115.4	98.3	136.0	128.1	429.6	59.2	
VEL=	2.8	4.3	4.3	7.0	3.2	1.7	
DEPTH=	1.0	2.8	2.8	4.0	1.8	.6	

*SECNO 3.200

3.200	5.30	1815.30	1814.16	.00	1815.56	.26	2.45	.03	1812.00
3669.0	2370.6	646.0	652.4	629.0	107.1	235.9	784.7	301.2	1812.00
1.19	3.77	6.03	2.77	.065	.050	.065	.000	1810.00	9786.56
.005721	350.	345.	340.	2	10	0	.00	365.35	10151.91

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.20 CWSEL= 1815.30

STA=	9787.	9795.	9808.	9988.	10012.	10100.	10152.
PER Q=	.2	2.4	62.0	17.6	16.6	1.2	
AREA=	5.5	29.9	593.6	107.1	202.2	33.7	
VEL=	1.3	3.0	3.8	6.0	3.0	1.3	
DEPTH=	.6	2.3	3.3	4.5	2.3	.6	

*SECNO 3.260

3.260	5.81	1817.81	1817.30	.00	1818.40	.59	2.55	.29	1814.00
3669.0	1242.3	1038.9	1387.8	273.2	114.6	312.1	790.9	303.6	1814.00
1.20	4.55	9.06	4.45	.065	.050	.065	.000	1812.00	9868.31
.011188	335.	325.	315.	2	5	0	.00	286.48	10154.79

FLOW DISTRIBUTION FOR SECNO= 3.26 CWSEL= 1817.81

STA=	9868.	9900.	9987.	10010.	10105.	10155.
PER Q=	1.8	32.1	28.3	35.0	2.8	
AREA=	28.7	244.5	114.6	267.0	45.1	
VEL=	2.3	4.8	9.1	4.8	2.3	
DEPTH=	.9	2.8	5.0	2.8	.9	

*SECNO 3.310

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.42

3.310	6.11	1820.11	1819.04	.00	1820.41	.31	1.85	.17	1816.00
3669.0	1322.2	923.8	1423.0	387.4	136.8	433.1	795.6	305.5	1816.00
1.22	3.41	6.75	3.29	.065	.050	.065	.000	1814.00	9836.54
.005551	250.	235.	240.	2	9	0	.00	380.94	10217.47

FLOW DISTRIBUTION FOR SECNO= 3.31 CWSEL= 1820.11

STA=	9837.	9879.	9989.	10014.	10128.	10200.	10217.
PER Q=	2.2	33.8	25.2	34.8	3.9	.0	
AREA=	45.3	342.1	136.8	352.6	79.5	.9	
VEL=	1.8	3.6	6.8	3.6	1.8	.2	
DEPTH=	1.1	3.1	5.4	3.1	1.1	.1	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.400

3.400	5.99	1822.99	1822.18	.00	1823.43	.44	2.89	.12	1820.00
3669.0	751.9	2621.1	296.0	271.6	429.1	147.2	805.9	310.3	1820.00
1.25	2.77	6.11	2.01	.065	.050	.065	.000	1817.00	9807.88
.006242	440.	480.	580.	3	15	0	.00	442.56	10250.45

FLOW DISTRIBUTION FOR SECNO= 3.40 CWSEL= 1822.99

STA=	9808.	9835.	9965.	10067.	10105.	10250.
PER Q=	.4	20.1	71.4	5.9	2.2	
AREA=	13.4	258.2	429.1	75.5	71.7	
VEL=	1.1	2.9	6.1	2.9	1.1	
DEPTH=	.5	2.0	4.2	2.0	.5	

*SECNO 3.490

3.490	3.85	1825.85	1824.76	.00	1826.12	.26	2.58	.11	1824.00
3669.0	9.3	1578.5	2081.2	6.0	299.2	708.6	815.3	314.9	1822.00
1.28	1.56	5.28	2.94	.065	.050	.065	.000	1822.00	9922.73
.005400	460.	450.	430.	2	14	0	.00	462.41	10385.15

FLOW DISTRIBUTION FOR SECNO= 3.49 CWSEL= 1825.85

STA=	9923.	9929.	10009.	10195.	10385.
PER Q=	.3	43.0	49.0	7.7	
AREA=	6.0	299.2	532.2	176.4	
VEL=	1.6	5.3	3.4	1.6	
DEPTH=	.9	3.8	2.9	.9	

*SECNO 3.590

3.590	5.12	1829.12	1828.67	.00	1829.66	.53	3.30	.24	1826.00
3669.0	516.4	1839.3	1313.3	155.2	242.9	396.4	825.5	319.5	1826.00
1.30	3.33	7.57	3.31	.065	.050	.065	.000	1824.00	9889.50
.008353	520.	510.	480.	3	8	0	.00	358.82	10248.32

FLOW DISTRIBUTION FOR SECNO= 3.59 CWSEL= 1829.12

STA=	9890.	9906.	9975.	10026.	10200.	10248.
PER Q=	.4	13.7	50.1	34.7	1.1	
AREA=	9.5	145.7	242.9	369.3	27.2	
VEL=	1.4	3.5	7.6	3.5	1.4	
DEPTH=	.6	2.1	4.8	2.1	.6	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.670

3265 DIVIDED FLOW

3.670	6.46	1832.46	1831.73	.00	1833.00	.54	3.34	.01	1830.00
3669.0	1035.7	2530.9	102.4	326.6	373.9	39.2	832.6	323.1	1830.00
1.32	3.17	6.77	2.61	.065	.050	.065	.000	1826.00	9675.35
.008403	420.	400.	370.	3	8	0	.00	409.46	10092.55

FLOW DISTRIBUTION FOR SECNO= 3.67 CWSEL= 1832.46

STA=	9675.	9695.	9750.	9795.	9830.	9880.	9965.	10060.	10086.	10093.
PER Q=	.1	.8	.2	.1	5.3	21.6	69.0	2.8	.0	
AREA=	4.4	24.8	10.2	6.1	72.6	208.4	373.9	37.7	1.5	
VEL=	.8	1.2	.8	.8	2.7	3.8	6.8	2.7	.8	
DEPTH=	.2	.5	.2	.2	1.5	2.5	3.9	1.5	.2	

*SECNO 3.690

3.690	6.38	1833.38	1832.81	.00	1834.02	.65	.92	.10	1830.00
3669.0	933.0	2062.3	673.7	256.8	257.7	183.1	834.3	323.9	1830.00
1.33	3.63	8.00	3.68	.065	.050	.065	.000	1827.00	9842.44
.008666	100.	110.	120.	1	9	0	.00	266.34	10108.78

FLOW DISTRIBUTION FOR SECNO= 3.69 CWSEL= 1833.38

STA=	9842.	9870.	9970.	10022.	10095.	10109.
PER Q=	.9	24.6	56.2	17.9	.4	
AREA=	19.0	237.8	257.7	173.6	9.5	
VEL=	1.7	3.8	8.0	3.8	1.7	
DEPTH=	.7	2.4	5.0	2.4	.7	

*SECNO 3.730

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3.730	7.43	1835.43	1834.35	.00	1835.73	.30	1.50	.21	1832.00
3669.0	1003.6	1959.3	706.1	401.9	349.5	290.4	839.7	325.9	1832.00
1.35	2.50	5.61	2.43	.065	.050	.065	.000	1828.00	9792.70
.003841	280.	270.	260.	2	5	0	.00	392.85	10185.55

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.73 CWSEL= 1835.43

STA=	9793.	9817.	9975.	10040.	10150.	10186.
PER Q=	.5	26.8	53.4	18.5	.8	
AREA=	17.1	384.8	349.5	264.8	25.6	
VEL=	1.1	2.6	5.6	2.6	1.1	
DEPTH=	.7	2.4	5.4	2.4	.7	

*SECNO 3.810

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .62

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*****************************************************
***  CONCENTRATION POINT 42T - DESERT HILLS WASH  ***
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3.810	4.97	1836.97	1836.19	.00	1837.32	.36	1.54	.05	1834.00
2692.0	886.3	1635.6	170.1	339.5	282.1	69.8	846.7	328.7	1834.00
1.37	2.61	5.80	2.44	.065	.050	.065	.000	1832.00	9794.42
.005406	345.	350.	365.	3	11	0	.00	296.53	10090.95

FLOW DISTRIBUTION FOR SECNO= 3.81 CWSEL= 1836.97

STA=	9794.	9808.	9977.	10042.	10073.	10091.
PER Q=	.3	32.7	60.8	6.0	.3	
AREA=	6.6	332.9	282.1	61.1	8.7	
VEL=	1.0	2.6	5.8	2.6	1.0	
DEPTH=	.5	2.0	4.3	2.0	.5	

*SECNO 3.870

3.870	5.33	1839.33	1838.40	.00	1839.61	.28	2.23	.05	1836.00
2692.0	960.6	1550.7	180.6	430.3	296.4	75.4	854.9	332.3	1836.00
1.40	2.23	5.23	2.40	.065	.050	.065	.000	1834.00	9734.16
.004052	480.	480.	480.	1	15	0	.00	353.83	10087.99

FLOW DISTRIBUTION FOR SECNO= 3.87 CWSEL= 1839.33

STA=	9734.	9756.	9772.	9866.	9983.	10047.	10076.	10088.
PER Q=	.6	1.3	8.1	25.6	57.6	6.4	.3	
AREA=	14.7	20.4	124.9	270.4	296.4	67.5	7.9	
VEL=	1.1	1.8	1.8	2.6	5.2	2.5	1.1	
DEPTH=	.7	1.3	1.3	2.3	4.6	2.3	.7	

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 3.960
   3.960      5.72   1841.72   1840.75       .00   1841.93       .21      2.28       .04   1842.00
  2692.0        .0    1152.8    1539.2        .0     250.8     553.9     863.9     336.2   1840.00
    1.44       .00      4.60      2.78      .000      .050      .065      .000   1836.00   9977.03
 .005389      450.      500.      500.         1         9         0       .00    359.97  10337.00


FLOW DISTRIBUTION FOR SECNO=      3.96          CWSEL=   1841.72

STA=    9977.   10058.   10160.   10260.   10270.   10305.   10337.
  PER Q=     42.8     15.9     31.2      3.1      5.4      1.6
   AREA=    250.8    176.4    263.0     26.3     60.5     27.7
    VEL=      4.6      2.4      3.2      3.2      2.4      1.5
  DEPTH=      3.1      1.7      2.6      2.6      1.7       .9

*SECNO 4.030

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .62

  4.030      6.40   1844.40   1844.33       .00   1845.25       .86      2.74       .58   1842.00
 2692.0    1148.4    1407.7     135.9     278.2     147.7      43.2     868.8     338.6   1842.00
   1.45      4.13      9.53      3.15      .065      .050      .065      .000   1838.00   9816.09
 .014056     330.      330.      340.         0         8         0       .00    244.71  10060.80


FLOW DISTRIBUTION FOR SECNO=      4.03          CWSEL=   1844.40

STA=    9816.    9825.    9920.    9980.   10012.   10040.   10061.
  PER Q=       .1     16.7     25.9     52.3      4.9       .1
   AREA=      1.8    132.6    143.8    147.7     39.1      4.1
    VEL=       .9      3.4      4.9      9.5      3.4       .9
  DEPTH=       .2      1.4      2.4      4.6      1.4       .2

1490 NH CARD USED
*SECNO 4.140

3301 HV CHANGED MORE THAN HVINS
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.47

4.140	6.17	1848.17	1846.42	.00	1848.28	.11	2.58	.45	1846.00
2692.0	11.1	298.8	2382.1	7.3	90.4	916.2	878.2	342.3	1846.00
1.51	1.50	3.31	2.60	.050	.050	.060	.000	1842.00	9975.49
.002299	510.	570.	560.	1	18	0	.00	346.53	10322.02

FLOW DISTRIBUTION FOR SECNO= 4.14 CWSEL= 1848.17

STA=	9975.	9983.	10008.	10147.	10177.	10186.	10189.	10215.	10315.	10322.
PER Q=	.4	11.1	20.5	8.5	6.8	3.7	21.0	27.8	.2	
AREA=	7.3	90.4	300.8	96.6	44.0	20.6	132.6	316.9	4.6	
VEL=	1.5	3.3	1.8	2.4	4.2	4.8	4.3	2.4	1.1	
DEPTH=	.9	3.6	2.2	3.2	5.2	6.2	5.2	3.2	.7	

CCHV= .100 CEHV= .300
*SECNO 4.230

3301 HV CHANGED MORE THAN HVINS

MINIMUM SPECIFIC ENERGY
CRITICAL DEPTH ASSUMED

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*****************************************************
***  CONCENTRATION POINT 43 - DESERT HILLS WASH  ***
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4.230	5.19	1851.59	1851.59	.00	1852.47	.88	2.08	.23	1850.00
1787.0	570.9	1205.9	10.3	136.2	138.7	3.8	885.5	345.1	1850.00
1.53	4.19	8.70	2.67	.065	.050	.065	.000	1846.40	9869.41
.019787	492.	492.	492.	0	10	0	.00	147.00	10016.41

FLOW DISTRIBUTION FOR SECNO= 4.23 CWSEL= 1851.59

STA=	9869.	9895.	9904.	9916.	9966.	10012.	10016.
PER Q=	3.1	4.2	4.9	19.7	67.5	.6	
AREA=	20.0	16.6	19.1	80.5	138.7	3.8	
VEL=	2.8	4.6	4.6	4.4	8.7	2.7	
DEPTH=	.8	1.7	1.7	1.6	3.1	.8	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.280

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.85

4.280	6.72	1854.72	1853.48	.00	1855.23	.51	2.72	.04	1852.00
1787.0	118.2	1526.6	142.2	49.2	248.6	60.5	887.5	345.9	1852.00
1.54	2.40	6.14	2.35	.065	.050	.065	.000	1848.00	9940.44
.005797	220.	290.	350.	4	8	0	.00	136.68	10077.12

FLOW DISTRIBUTION FOR SECNO= 4.28 CWSEL= 1854.72

STA=	9940.	9948.	9975.	10030.	10062.	10077.
PER Q=	.1	6.5	85.4	7.7	.3	
AREA=	2.7	46.4	248.6	55.0	5.4	
VEL=	.9	2.5	6.1	2.5	.9	
DEPTH=	.4	1.7	4.5	1.7	.4	

*SECNO 4.370

3265 DIVIDED FLOW

4.370	3.66	1857.66	1857.23	.00	1858.19	.53	2.96	.00	1856.00
1787.0	14.6	1517.6	254.8	7.0	243.0	103.7	890.7	347.4	1856.00
1.56	2.09	6.25	2.46	.065	.050	.065	.000	1854.00	9966.65
.010921	420.	380.	375.	3	11	0	.00	200.55	10332.86

FLOW DISTRIBUTION FOR SECNO= 4.37 CWSEL= 1857.66

STA=	9967.	9975.	10060.	10127.	10305.	10322.	10333.
PER Q=	.8	84.9	6.6	1.2	5.3	1.1	
AREA=	7.0	243.0	55.8	10.5	28.4	9.1	
VEL=	2.1	6.2	2.1	2.1	3.4	2.1	
DEPTH=	.8	2.9	.8	.1	1.7	.8	

*SECNO 4.390

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.72

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*****************************************************
     JUST DOWNSTREAM OF 2-48", 1-60" CMPs WITH
          HEADWALL BENEATH JOY RANCH ROAD
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4.390	7.96	1860.96	1858.75	.00	1861.24	.28	3.03	.02	1860.00
1787.0	22.0	1204.5	560.5	27.8	238.0	323.3	895.9	350.6	1860.00
1.60	.79	5.06	1.73	.070	.055	.070	.000	1853.00	9922.25
.003687	560.	540.	420.	3	14	0	.00	405.63	10334.44

FLOW DISTRIBUTION FOR SECNO= 4.39 CWSEL= 1860.96

STA=	9922.	9980.	10020.	10050.	10170.	10225.	10280.	10300.	10320.	10334.
PER Q=	1.2	67.4	2.0	2.6	1.0	12.2	8.8	4.4	.3	
AREA=	27.8	238.0	28.9	57.9	23.2	107.9	59.3	39.3	6.9	
VEL=	.8	5.1	1.3	.8	.8	2.0	2.7	2.0	.8	
DEPTH=	.5	6.0	1.0	.5	.4	2.0	3.0	2.0	.5	

SPECIAL CULVERT

SC	CUNO	CUNV	ENTLC	COFQ	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
	3	.012	.50	3.10	.00	4.00	.00	77.00	1	1	1854.00	1853.00

CHART 1 - CONCRETE PIPE CULVERT; NO BEVELED RING ENTRANCE
SCALE 1 - SQUARE EDGE ENTRANCE WITH HEADWALL

5130, EGIC= 1946.08..MAY BE TOO LARGE IF INLET CONTROLS.
5135, EGOC= 1924.58 ..MAY BE TOO LARGE IF OUTLET CONTROLS.
*SECNO 4.410
3840 SECTION NOT HIGH ENOUGH 1946.081 1914.000 1854.000 1918.000 1860.992 8
SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
1946.08	1924.58	.95	1343.	445.	7.139	37.7	1860.50	502.

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3710 WSEL ASSUMED BASED ON MIN DIFF
3693 PROBABLE MINIMUM SPECIFIC ENERGY

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*****************************************************
     JUST UPSTREAM OF 2-48", 1-60" CMP's WITH
     HEADWALL BENEATH JOY RANCH ROAD.  NO SKEW.
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

   4.410      8.19   1862.19   1862.15       .00   1862.66       .47       .42       .52   1860.50
  1787.0     439.6    1000.9     346.6     211.0     140.2     202.6     896.9     351.4   1860.50
    1.60      2.08      7.14      1.71      .070      .055      .070      .000   1854.00   9781.22
 .008936       77.       77.       77.        20         9         0       .00    501.61  10282.83

FLOW DISTRIBUTION FOR SECNO=      4.41          CWSEL=   1862.19

STA=    9781.    9970.    9992.   10009.   10030.   10280.   10283.
  PER Q=     18.7      5.9     56.0      4.3     15.1       .0
   AREA=    174.0     37.0    140.2     30.1    172.2       .3
    VEL=      1.9      2.8      7.1      2.6      1.6       .4
  DEPTH=       .9      1.7      8.2      1.4       .7       .1

*SECNO 4.480

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  4.16

   4.480      6.86   1862.86   1859.32       .00   1862.90       .04       .20       .04   1858.00
  1787.0     908.0     817.8      61.1     716.5     433.2      85.2     899.9     352.8   1860.00
    1.63      1.27      1.89       .72      .070      .055      .070      .000   1856.00   9772.94
 .000516      130.      155.      160.         2        19         0       .00    321.32  10094.26

FLOW DISTRIBUTION FOR SECNO=      4.48          CWSEL=   1862.86

STA=    9773.    9790.    9820.    9870.    9965.   10045.   10090.   10094.
  PER Q=       .1      2.3     12.8     35.7     45.8      3.4       .0
   AREA=      7.3     55.6    192.6    461.0    433.2     83.4      1.8
    VEL=       .3       .7      1.2      1.4      1.9       .7       .3
  DEPTH=       .4      1.9      3.9      4.9      5.4      1.9       .4

*SECNO 4.530

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   4.530      4.34   1863.64   1863.64       .00   1864.45       .80       .63       .23   1862.00
  1787.0      26.0    1368.4     392.6       9.5     169.5     142.0     907.0     355.4   1862.00
    1.65      2.75      8.07      2.76      .070      .055      .070      .000   1859.30   9973.49
 .022021      370.      420.      430.         0        14         0       .00    243.19  10216.68
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.53 CWSEL= 1863.64

STA=	9973.	9985.	10044.	10217.
PER Q=	1.5	76.6	22.0	
AREA=	9.5	169.5	142.0	
VEL=	2.7	8.1	2.8	
DEPTH=	.8	2.9	.8	

*SECNO 4.590

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.18

4.590	5.11	1866.81	1865.96	.00	1867.02	.21	2.52	.06	1864.00
1787.0	239.2	918.0	629.8	113.7	195.4	296.2	910.1	357.3	1864.00
1.67	2.10	4.70	2.13	.070	.055	.070	.000	1861.70	9901.04
.004644	320.	280.	300.	5	5	0	.00	291.64	10192.67

FLOW DISTRIBUTION FOR SECNO= 4.59 CWSEL= 1866.81

STA=	9901.	9911.	9971.	10019.	10179.	10193.
PER Q=	.2	13.2	51.4	35.0	.2	
AREA=	3.9	109.8	195.4	290.8	5.4	
VEL=	.8	2.2	4.7	2.2	.8	
DEPTH=	.4	1.8	4.1	1.8	.4	

*SECNO 4.680

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .47

4.680	3.16	1870.16	1870.03	.00	1870.91	.75	3.73	.16	1868.00
1787.0	108.7	1498.3	180.0	32.3	200.6	53.5	914.6	359.5	1868.00
1.69	3.36	7.47	3.37	.070	.055	.070	.000	1867.00	9950.13
.020774	435.	435.	435.	3	14	0	.00	151.50	10101.63

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.68 CWSEL= 1870.16

STA=	9950.	9979.	10054.	10101.	10102.
PER Q=	6.1	83.8	10.1	.0	
AREA=	32.3	200.6	53.4	.1	
VEL=	3.4	7.5	3.4	.0	
DEPTH=	1.1	2.7	1.2	.1	

*SECNO 4.750

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.93

4.750	4.36	1874.46	1873.29	.00	1874.74	.28	3.78	.05	1872.00
1787.0	175.8	1495.0	116.2	87.8	327.2	58.4	918.0	361.1	1872.00
1.71	2.00	4.57	1.99	.070	.055	.070	.000	1870.10	9886.31
.005584	390.	390.	390.	4	5	0	.00	211.22	10097.53

FLOW DISTRIBUTION FOR SECNO= 4.75 CWSEL= 1874.46

STA=	9886.	9896.	9954.	10050.	10089.	10098.
PER Q=	.1	9.8	83.7	6.4	.1	
AREA=	2.1	85.6	327.2	56.5	1.9	
VEL=	.6	2.0	4.6	2.0	.6	
DEPTH=	.2	1.5	3.4	1.5	.2	

*SECNO 4.810

4.810	3.37	1876.87	1876.02	.00	1877.26	.38	2.49	.03	1874.00
1787.0	86.0	827.4	873.7	27.8	139.9	214.7	921.2	362.5	1874.00
1.73	3.09	5.91	4.07	.070	.055	.070	.000	1873.50	9959.46
.010489	250.	318.	390.	3	11	0	.00	153.44	10112.90

FLOW DISTRIBUTION FOR SECNO= 4.81 CWSEL= 1876.87

STA=	9959.	9965.	9979.	10024.	10039.	10061.	10089.	10106.	10113.
PER Q=	.2	4.6	46.3	9.1	13.5	20.2	5.9	.2	
AREA=	2.6	25.2	139.9	39.4	58.2	82.0	32.2	2.8	
VEL=	1.2	3.3	5.9	4.1	4.1	4.4	3.3	1.2	
DEPTH=	.4	1.9	3.1	2.6	2.6	2.9	1.9	.4	

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 4.880
    4.880      4.91   1880.91   1880.43       .00   1881.73       .81      4.34       .13   1878.00
   1787.0     109.8    1462.0     215.2      30.6     187.3      58.7     924.0     363.6   1878.00
     1.75      3.59      7.81      3.66      .070      .055      .070      .000   1876.00   9964.67
  .013610      365.      365.      365.         3        11         0       .00    105.16  10069.83


FLOW DISTRIBUTION FOR SECNO=      4.88          CWSEL=   1880.91

STA=    9965.    9971.    9985.   10033.   10062.   10070.
  PER Q=       .2      5.9     81.8     11.7       .3
   AREA=      2.7     27.9    187.3     55.0      3.7
    VEL=      1.5      3.8      7.8      3.8      1.5
  DEPTH=       .5      1.9      3.9      1.9       .5

*SECNO 4.950
        ********************************************
             CONFLUENCE WITH SMALL, UNNAMED WASH
        ********************************************
    4.950      5.57   1885.07   1884.04       .00   1885.65       .58      3.90       .02   1882.00
   1787.0     108.4    1514.6     164.1      37.2     232.4      58.2     926.6     364.5   1882.00
     1.76      2.91      6.52      2.82      .070      .055      .070      .000   1879.50   9953.34
  .008021      380.      380.      380.         3        11         0       .00    114.38  10067.71


FLOW DISTRIBUTION FOR SECNO=      4.95          CWSEL=   1885.07

STA=    9953.    9959.    9976.   10028.   10052.   10068.
  PER Q=       .2      5.8     84.8      8.6       .6
   AREA=      3.3     33.9    232.4     49.8      8.3
    VEL=      1.2      3.1      6.5      3.1      1.3
  DEPTH=       .5      2.1      4.4      2.1       .5

*SECNO 5.020

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .44

    5.020      4.66   1888.16   1887.61       .00   1888.89       .72      3.19       .04   1886.00
   1000.0     107.4     870.1      22.5      40.6     120.0       8.7     928.6     365.3   1886.00
     1.78      2.65      7.25      2.58      .070      .055      .070      .000   1883.50   9943.54
  .012903      330.      340.      350.         2        15         0       .00     76.36  10019.90
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 5.02 CWSEL= 1888.16

STA=	9944.	9979.	10012.	10019.
PER Q=	10.7	87.0	2.3	
AREA=	40.6	120.0	8.7	
VEL=	2.6	7.3	2.6	
DEPTH=	1.1	3.7	1.2	

*SECNO 5.110

5.110	4.63	1893.33	1892.61	.00	1893.88	.54	4.97	.02	1890.00
1000.0	260.2	681.8	58.0	76.0	100.5	17.3	930.4	366.0	1890.00
1.80	3.43	6.78	3.35	.070	.055	.070	.000	1888.70	9943.48
.010061	438.	438.	438.	4	15	0	.00	79.72	10023.20

FLOW DISTRIBUTION FOR SECNO= 5.11 CWSEL= 1893.33

STA=	9943.	9960.	9988.	10013.	10020.	10023.
PER Q=	1.8	24.2	68.2	5.4	.4	
AREA=	11.2	64.8	100.5	15.0	2.3	
VEL=	1.6	3.7	6.8	3.6	1.5	
DEPTH=	.7	2.3	4.0	2.3	.7	

*SECNO 5.180

5.180	3.97	1898.37	1898.28	.00	1899.18	.81	5.22	.08	1896.00
1000.0	40.0	732.4	227.6	11.3	89.9	62.3	931.9	366.8	1896.00
1.81	3.53	8.14	3.65	.070	.055	.070	.000	1894.40	9976.77
.019657	370.	384.	385.	2	15	0	.00	85.74	10062.51

FLOW DISTRIBUTION FOR SECNO= 5.18 CWSEL= 1898.37

STA=	9977.	9978.	9986.	10015.	10060.	10063.
PER Q=	.0	4.0	73.2	22.7	.0	
AREA=	.3	11.0	89.9	61.9	.5	
VEL=	1.0	3.6	8.1	3.7	1.0	
DEPTH=	.2	1.4	3.2	1.4	.2	

*SECNO -4.950

```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


START TRIB COMP
    -4.950     4.950  1885.073
   -4.950      5.57   1885.07       .00       .00   1885.65       .58       .00      5.30   1882.00
   1787.0     108.3    1514.6     164.1      37.2     232.4      58.1     931.9     366.8   1882.00
     1.81      2.91      6.52      2.82      .070      .055      .070      .000   1879.50   9953.34
  .008022        0.        0.        0.         0         0         0       .00    114.37  10067.71


FLOW DISTRIBUTION FOR SECNO=     -4.95         CWSEL=   1885.07

STA=    9953.    9959.    9976.   10028.   10052.   10068.
  PER Q=       .2      5.8     84.8      8.6       .6
   AREA=      3.3     33.9    232.4     49.8      8.3
    VEL=      1.2      3.1      6.5      3.1      1.3
  DEPTH=       .5      2.1      4.4      2.1       .5

*SECNO 5.001

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .41

    5.001      3.91   1887.61   1887.09       .00   1888.25       .64      2.58       .02   1886.00
   1000.0      30.8     959.4       9.8      13.6     146.6       4.4     933.4     367.3   1886.00
     1.83      2.27      6.54      2.22      .070      .055      .070      .000   1883.70   9938.51
  .015290      240.      260.      300.         2        14         0       .00     75.34  10013.84


FLOW DISTRIBUTION FOR SECNO=      5.00         CWSEL=   1887.61

STA=    9939.    9955.   10008.   10014.
  PER Q=      3.1     95.9      1.0
   AREA=     13.6    146.6      4.4
    VEL=      2.3      6.5      2.2
  DEPTH=       .8      2.8       .8

*SECNO 5.081

3301 HV CHANGED MORE THAN HVINS

    5.081      5.29   1895.09   1894.78       .00   1896.26      1.17      7.85       .16   1894.00
   1000.0       3.3     996.7        .0       1.6     114.5        .0     934.8     367.9   1896.00
     1.84      2.10      8.71       .00      .070      .055      .000      .000   1889.80   9979.92
  .024141      414.      414.      414.         3        11         0       .00     39.93  10019.85
```

09JUN92 09:37:31

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 5.08 CWSEL= 1895.09

STA=	9980.	9983.	10023.
PER Q=	.3	99.7	
AREA=	1.6	114.5	
VEL=	2.1	8.7	
DEPTH=	.5	3.1	

*SECNO 5.161

3301 HV CHANGED MORE THAN HVINS

5.161	4.27	1902.27	1901.72	.00	1902.90	.63	6.58	.05	1900.00
1000.0	65.1	866.0	69.0	23.2	127.9	24.6	936.0	368.4	1900.00
1.86	2.80	6.77	2.81	.070	.055	.070	.000	1898.00	9960.91
.013037	380.	380.	380.	4	16	0	.00	80.42	10041.32

FLOW DISTRIBUTION FOR SECNO= 5.16 CWSEL= 1902.27

STA=	9961.	9963.	9981.	10020.	10040.	10041.
PER Q=	.0	6.5	86.6	6.9	.0	
AREA=	.3	23.0	127.9	24.3	.2	
VEL=	.6	2.8	6.8	2.8	.6	
DEPTH=	.1	1.3	3.3	1.3	.1	

T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME: DTHL.DAT JJA NO. 290-018 (ENCROACHMENT RUN)
T3 REV. 6-9-92 DESERT HILLS WASH -- 100 YEAR FLOW FLOODWAY WITH ENCROACHMENT

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0	0	0	13541	1743.6	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1	0	0	0	-1	0	0	15

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*PROF 2

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS



CCHV=     .600 CEHV=     .900
1490 NH CARD USED
*SECNO  .220

3470 ENCROACHMENT STATIONS=     9350.0   10190.0  TYPE=      1  TARGET=      840.000
      .220      9.60   1743.60   1741.76   1743.20   1743.89       .29       .00       .00   1740.00
   13541.0     382.8    2117.6   11040.6     156.0     358.0    2762.5        .0        .0   1740.00
      .00      2.45      5.92      4.00      .065      .050      .056      .000   1734.00   9350.00
   .003340      150.      140.      250.         0        13         0       .00    840.00  10190.00


FLOW DISTRIBUTION FOR SECNO=       .22          CWSEL=   1743.60

STA=    9350.    9410.    9465.    9600.    9880.    9975.    9990.   10000.   10025.   10100.   10190.
  PER Q=      2.8     15.6      8.7     18.0     15.3      4.4      4.5     11.4     13.4      5.8
   AREA=    156.0    358.0    418.5    868.0    437.0     99.0     86.0    215.0    365.0    274.0
   VEL=      2.5      5.9      2.8      2.8      4.8      6.0      7.1      7.2      5.0      2.9
   DPTH=     2.6      6.5      3.1      3.1      4.6      6.6      8.6      8.6      4.9      3.0

1490 NH CARD USED
*SECNO  .310

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .66


3470 ENCROACHMENT STATIONS=     9750.0   10238.0  TYPE=      1  TARGET=      488.000
       ************************************************************************
          THIS SECTION COINCIDES WITH SECTION 2.97 MAIN BRANCH APACHE WASH
       ************************************************************************
      .310      9.13   1745.13   1743.14   1744.47   1745.50       .37      1.54       .07   1740.00
   10259.0    3399.2    1889.5    4970.3     911.2     259.7    1125.4      26.4       6.3   1740.00
      .02      3.73      7.27      4.42      .065      .050      .065      .000   1736.00   9750.00
   .004348      450.      425.      400.         2        13         0       .00    488.00  10238.00


FLOW DISTRIBUTION FOR SECNO=       .31          CWSEL=   1745.13
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9750.    9800.    9910.    9984.   10019.   10238.
  PER Q=      5.4     14.5     13.2     18.4     48.4
   AREA=    169.1    410.5    331.6    259.7   1125.4
    VEL=      3.3      3.6      4.1      7.3      4.4
  DEPTH=      3.4      3.7      4.5      7.5      5.1

CCHV=     .600 CEHV=     .900
*SECNO  .400

3470 ENCROACHMENT STATIONS=     9580.0   10120.0  TYPE=      1  TARGET=      540.000
       ************************************************************************
          THIS IS THE FIRST SECTION OF THE DESERT HILLS WASH: END CONFLUENCE
          THIS LOCATION IS JUST UPSTREAM OF THE CONFLUENCE WITH MAIN BRANCH
          FLOW IS RECEIVED FROM MAIN BRANCH APACHE WASH SPLIT FLOW
       ************************************************************************
     .400      8.95   1746.95   1744.68   1746.40   1747.24       .28      1.68       .05   1742.00
   10259.0    6091.4    2426.8    1740.7    1740.3     397.9     484.7      52.1      11.6   1742.00
     .06      3.50      6.10      3.59      .065      .050      .065      .000   1738.00   9580.00
  .003088     380.      478.      570.         1        13         0       .00    540.00  10120.00


FLOW DISTRIBUTION FOR SECNO=       .40          CWSEL=   1746.95

STA=    9580.    9611.    9720.    9950.    9967.   10022.   10104.   10120.
  PER Q=      2.0     13.4     40.9      3.0     23.7     14.6      2.3
   AREA=     86.4    433.0   1136.8     84.2    397.9    406.6     78.1
    VEL=      2.4      3.2      3.7      3.7      6.1      3.7      3.1
  DEPTH=      2.8      4.0      5.0      5.0      7.2      5.0      4.8

*SECNO  .480

3470 ENCROACHMENT STATIONS=     9758.0   10314.0  TYPE=      1  TARGET=      556.000
       ************************************************************************
          FLOW IS RECEIVED FROM MAIN BRANCH APACHE WASH SPLIT FLOW
       ************************************************************************
     .480      8.06   1748.06   1745.38   1747.54   1748.28       .22      1.00       .04   1742.00
   10259.0    3645.3    1446.0    5167.7    1104.3     254.1    1541.8      75.0      16.1   1742.00
     .08      3.30      5.69      3.35      .065      .050      .065      .000   1740.00   9758.00
  .002479     400.      382.      300.         2        14         0       .00    556.00  10314.00
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=       .48          CWSEL=   1748.06

STA=    9758.    9775.    9980.   10013.   10314.
  PER Q=      1.6     33.9     14.1     50.4
   AREA=     67.6   1036.6    254.1   1541.8
    VEL=      2.5      3.4      5.7      3.4
  DEPTH=      4.0      5.1      7.7      5.1

*SECNO  .560

3470 ENCROACHMENT STATIONS=     9513.0   10084.0  TYPE=      1  TARGET=      571.000
       ************************************************************************
          FLOW IS RECEIVED FROM MAIN BRANCH APACHE WASH SPLIT FLOW
       ************************************************************************
      .560      9.08   1749.08   1746.90   1748.52   1749.34       .26      1.03       .03   1744.00
   10259.0    7416.0    1653.5    1189.5    2161.9     262.2     327.9      99.2      20.9   1744.00
      .11      3.43      6.31      3.63      .065      .050      .065      .000   1740.00   9513.00
   .003001     320.      436.      450.         2         9         0       .00    571.00  10084.00


FLOW DISTRIBUTION FOR SECNO=       .56          CWSEL=   1749.08

      9513.    9600.    9615.    9730.    9987.   10019.   10081.   10084.
  PER Q=     12.1      2.8     17.7     39.6     16.1     11.4       .2
   AREA=    381.6     76.2    526.9   1177.1    262.2    315.1     12.8
    VEL=      3.3      3.7      3.5      3.5      6.3      3.7      1.8
  DEPTH=      4.4      5.1      4.6      4.6      8.0      5.1      5.1

*SECNO  .640

3470 ENCROACHMENT STATIONS=     9750.0   10230.0  TYPE=      1  TARGET=      480.000
       ******************************************************
       ***  CONCENTRATION POINT F5T - DESERT HILLS WASH  ***
       ******************************************************
      .640      8.40   1750.40   1748.62   1749.71   1750.80       .41      1.33       .13   1746.00
   10259.0    4138.1    2116.4    4004.5     977.3     281.7     931.7     118.3      24.9   1746.00
      .13      4.23      7.51      4.30      .065      .050      .065      .000   1742.00   9750.00
   .005009     270.      450.      450.         2        13         0       .00    480.00  10230.00
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .64 CWSEL= 1750.40

STA=	9750.	9825.	9920.	9978.	10018.	10130.	10220.	10230.
PER Q=	11.9	17.7	10.7	20.6	20.8	16.7	1.5	
AREA=	305.8	417.6	253.9	281.7	492.1	395.7	44.0	
VEL=	4.0	4.3	4.3	7.5	4.3	4.3	3.4	
DEPTH=	4.1	4.4	4.4	7.0	4.4	4.4	4.4	

*SECNO .720

3470 ENCROACHMENT STATIONS= 9950.0 10335.0 TYPE= 1 TARGET= 385.000

.720	8.20	1752.20	1750.37	1751.29	1752.69	.49	1.82	.07	1748.00
10259.0	603.9	1732.9	7922.1	147.0	214.8	1578.7	134.1	28.2	1748.00
.15	4.11	8.07	5.02	.065	.050	.065	.000	1744.00	9950.00
.005793	340.	373.	325.	2	14	0	.00	385.00	10335.00

FLOW DISTRIBUTION FOR SECNO= .72 CWSEL= 1752.20

STA=	9950.	9987.	10017.	10081.	10315.	10335.
PER Q=	5.9	16.9	12.0	59.9	5.3	
AREA=	147.0	214.8	272.5	1191.7	114.5	
VEL=	4.1	8.1	4.5	5.2	4.7	
DEPTH=	4.0	7.2	4.2	5.1	5.7	

*SECNO .810

3470 ENCROACHMENT STATIONS= 9750.0 10350.0 TYPE= 1 TARGET= 600.000

.810	8.44	1754.44	1752.31	1753.58	1754.70	.25	1.86	.14	1750.00
10259.0	2614.4	1537.1	6107.5	830.2	255.2	1625.3	157.7	33.2	1750.00
.18	3.15	6.02	3.76	.065	.050	.065	.000	1746.00	9750.00
.003254	550.	492.	400.	2	14	0	.00	600.00	10350.00

FLOW DISTRIBUTION FOR SECNO= .81 CWSEL= 1754.44

STA=	9750.	9779.	9805.	9884.	9884.	9984.	10018.	10035.	10036.	10105.	10270.	10350.
PER Q=	1.0	1.5	7.8	.0	15.2	15.0	2.7	.0	13.7	32.6	10.5	
AREA=	53.7	64.3	270.0	.8	441.4	255.2	77.4	.4	360.3	856.2	331.0	
VEL=	1.9	2.4	3.0	3.5	3.5	6.0	3.5	3.5	3.9	3.9	3.3	
DEPTH=	1.8	2.4	3.4	4.4	4.4	7.4	4.4	4.4	5.2	5.2	4.1	

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .900

3470 ENCROACHMENT STATIONS=     9750.0   10200.0  TYPE=      1  TARGET=      450.000
      .900      8.43   1756.43   1754.76   1755.88   1756.86       .44      2.00       .16   1750.00
   10259.0    5235.8    1432.2    3591.0    1114.1     169.7     811.2     184.7      39.1   1750.00
      .20      4.70      8.44      4.43      .065      .050      .065      .000   1748.00   9750.00
   .005307     500.      491.      480.         2        14         0       .00    450.00  10200.00


FLOW DISTRIBUTION FOR SECNO=       .90          CWSEL=   1756.43

STA=    9750.    9766.    9767.    9832.    9950.    9996.   10018.   10022.   10022.   10038.   10200.
  PER Q=      .8       .0      8.2     27.5     14.5     14.0      1.0       .0      3.2     30.8
   AREA=    32.5       .5    222.4    586.1    272.6    169.7     21.9       .4     72.3    716.7
    VEL=     2.5      3.0      3.8      4.8      5.5      8.4      4.8      4.5      4.5      4.4
  DEPTH=     2.0      2.4      3.4      4.9      5.9      8.0      5.4      4.4      4.4      4.4

*SECNO  .990

3470 ENCROACHMENT STATIONS=     9750.0   10175.0  TYPE=      1  TARGET=      425.000
      .990     10.58   1758.58   1756.06   1757.75   1758.90       .32      1.97       .07   1752.00
   10259.0    5094.5    1494.2    3670.4    1264.7     223.7     892.8     208.8      43.9   1752.00
      .23      4.03      6.68      4.11      .065      .050      .065      .000   1748.00   9750.00
   .003389     490.      470.      440.         2        10         0       .00    425.00  10175.00


FLOW DISTRIBUTION FOR SECNO=       .99          CWSEL=   1758.58

STA=    9750.    9814.    9988.   10013.   10163.   10175.
  PER Q=     10.0     39.6     14.6     34.2      1.5
   AREA=    293.1    971.6    223.7    838.9     53.8
    VEL=      3.5      4.2      6.7      4.2      2.9
  DEPTH=      4.6      5.6      9.1      5.6      4.5

*SECNO 1.100
3280 CROSS SECTION      1.10 EXTENDED       .39 FEET


3470 ENCROACHMENT STATIONS=     9780.0   10174.0  TYPE=      1  TARGET=      394.000
        ******************************************************
        ***  CONCENTRATION POINT F3T - DESERT HILLS WASH  ***
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     ******************************************************
    1.100      8.39   1760.39   1757.70   1759.62   1760.71       .32      1.81       .00   1754.00
   9657.0    4888.9    1485.7    3282.3    1177.0     221.7     835.7     237.5      49.0   1754.00
      .27      4.15      6.70      3.93      .065      .050      .065      .000   1752.00   9780.00
  .003274      500.      553.      600.         3        11         0       .00    394.00  10174.00


FLOW DISTRIBUTION FOR SECNO=      1.10          CWSEL=   1760.39

STA=    9780.    9789.    9920.    9925.    9988.   10015.   10156.   10174.
  PER Q=      1.1     29.5      1.4     18.7     15.4     31.7      2.3
   AREA=     38.2    708.1     29.6    401.1    221.7    760.8     74.9
    VEL=      2.7      4.0      4.5      4.5      6.7      4.0      3.0
  DEPTH=      4.2      5.4      6.4      6.4      8.1      5.4      4.2

*SECNO 1.190
3280 CROSS SECTION      1.19 EXTENDED       .21 FEET


3470 ENCROACHMENT STATIONS=     9850.0   10220.0  TYPE=      1  TARGET=      370.000
    1.190      8.22   1762.22   1760.00   1761.73   1762.66       .45      1.84       .11   1756.00
   9657.0    2421.5    1802.1    5433.5     577.0     231.4    1126.1     260.6      53.2   1756.00
      .29      4.20      7.79      4.83      .065      .050      .065      .000   1754.00   9850.00
  .004523      550.      491.      420.         2        19         0       .00    370.00  10220.00


FLOW DISTRIBUTION FOR SECNO=      1.19          CWSEL=   1762.22

     9850.    9864.    9908.    9987.   10016.   10085.   10117.   10187.   10220.
  PER Q=       .6      4.9     19.6     18.7     23.1     10.8     17.5      4.9
   AREA=     27.0    141.5    408.5    231.4    429.5    200.5    365.3    130.7
    VEL=      2.2      3.3      4.6      7.8      5.2      5.2      4.6      3.6
  DEPTH=      1.9      3.2      5.2      7.9      6.2      6.2      5.2      4.0

*SECNO 1.290

3470 ENCROACHMENT STATIONS=     9770.0   10200.0  TYPE=      1  TARGET=      430.000
       *********************
            14TH STREET
       *********************
    1.290      8.13   1764.13   1761.56   1763.71   1764.47       .34      1.74       .07   1758.00
   9560.0    3476.9    4406.0    1677.1     997.3     753.3     557.5     285.7      57.9   1758.00
      .32      3.49      5.85      3.01      .065      .050      .065      .000   1756.00   9770.00
  .002628      530.      515.      500.         2        19         0       .00    430.00  10200.00
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.29 CWSEL= 1764.13

STA=	9770.	9960.	10060.	10115.	10200.
PER Q=	36.4	46.1	10.3	7.3	
AREA=	997.3	753.3	282.3	275.2	
VEL=	3.5	5.8	3.5	2.5	
DEPTH=	5.2	7.5	5.1	3.2	

*SECNO 1.350

3470 ENCROACHMENT STATIONS= 9800.0 10200.0 TYPE= 1 TARGET= 400.000

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*****************************************************
***  CONCENTRATION POINT F2T - DESERT HILLS WASH  ***
*****************************************************
```

1.350	9.10	1765.10	1762.93	1764.67	1765.47	.37	.97	.03	1760.00
9171.0	4056.8	1561.9	3552.3	941.3	216.3	856.1	300.3	60.8	1760.00
.34	4.31	7.22	4.15	.065	.050	.065	.000	1756.00	9800.00
.004203	200.	329.	400.	2	9	0	.00	400.00	10200.00

FLOW DISTRIBUTION FOR SECNO= 1.35 CWSEL= 1765.10

STA=	9800.	9835.	9927.	9986.	10014.	10055.	10070.	10076.	10081.	10195.	10200.
PER Q=	7.5	22.6	14.2	17.0	9.9	5.1	2.5	1.4	19.3	.4	
AREA=	173.4	471.3	296.6	216.3	207.3	95.8	42.3	28.2	466.3	16.2	
VEL=	4.0	4.4	4.4	7.2	4.4	4.9	5.5	4.7	3.8	2.3	
DEPTH=	5.0	5.1	5.1	7.6	5.1	6.1	7.1	6.1	4.1	3.0	

*SECNO 1.400

3470 ENCROACHMENT STATIONS= 9840.0 10250.0 TYPE= 1 TARGET= 410.000

1.400	8.45	1766.45	1764.64	1765.65	1766.88	.42	1.36	.05	1762.00
9171.0	2910.6	1653.2	4607.1	653.4	212.3	1029.2	313.2	63.5	1762.00
.36	4.45	7.79	4.48	.065	.050	.065	.000	1758.00	9840.00
.005396	270.	265.	310.	2	13	0	.00	410.00	10250.00

FLOW DISTRIBUTION FOR SECNO= 1.40 CWSEL= 1766.45

STA=	9840.	9971.	9987.	10017.	10038.	10217.	10250.
PER Q=	28.3	3.4	18.0	4.6	39.4	6.1	
AREA=	584.0	69.3	212.3	93.8	796.0	139.4	
VEL=	4.4	4.5	7.8	4.5	4.5	4.0	
DEPTH=	4.5	4.5	7.1	4.5	4.5	4.2	

```
   ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    L-BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      R-BANK ELEV
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


*SECNO 1.480

3470 ENCROACHMENT STATIONS=     9841.0   10340.0  TYPE=      1  TARGET=      499.000
     1.480     10.33   1768.33   1766.15   1767.46   1768.60       .26      1.62       .10   1762.00
    9171.0    3022.6    1419.4    4729.0     786.7     224.0    1399.2     332.8      67.6   1764.00
       .39      3.84      6.34      3.38      .065      .050      .065      .000   1758.00   9841.00
   .003151      450.      427.      360.         2        10         0       .00    499.00  10340.00


FLOW DISTRIBUTION FOR SECNO=      1.48          CWSEL=   1768.33

STA=    9841.    9989.   10017.   10041.   10340.
  PER Q=     33.0     15.5      3.8     47.7
   AREA=    786.7    224.0    103.0   1296.2
    VEL=      3.8      6.3      3.4      3.4
  DEPTH=      5.3      7.9      4.3      4.3

*SECNO 1.580

3470 ENCROACHMENT STATIONS=     9600.0   10150.0  TYPE=      1  TARGET=      550.000
       ***********************************************************
            12TH STREET LIES BETWEEN SECTIONS 1.58 AND 1.65
       ***********************************************************
     1.580      7.73   1769.73   1767.78   1768.98   1769.99       .26      1.40       .00   1766.00
    9171.0    6374.2    1001.2    1795.5    1643.4     161.8     516.8     353.4      72.1   1766.00
       .41      3.88      6.19      3.47      .065      .050      .065      .000   1762.00   9600.00
   .004123      420.      507.      300.         2        11         0       .00    550.00  10150.00


FLOW DISTRIBUTION FOR SECNO=      1.58          CWSEL=   1769.73

STA=    9600.    9700.    9722.    9740.    9760.    9825.    9840.    9920.    9985.   10011.   10086.   10133.   10150.
  PER Q=     14.0      3.2      3.6      4.1     13.8      4.4     17.0      9.3     10.9     10.8      6.7      2.2
   AREA=    372.5     83.1     81.8     92.5    307.1     85.9    378.0    242.4    161.8    279.6    173.1     64.1
    VEL=      3.4      3.5      4.1      4.1      4.1      4.7      4.1      3.5      6.2      3.5      3.5      3.1
  DEPTH=      3.7      3.7      4.6      4.6      4.7      5.7      4.7      3.7      6.2      3.7      3.7      3.7

*SECNO 1.650

3470 ENCROACHMENT STATIONS=     9580.0   10100.0  TYPE=      1  TARGET=      520.000
     1.650      7.32   1771.32   1769.35   1770.48   1771.60       .28      1.59       .02   1768.00
    9171.0    7489.4     961.8     719.8    1844.7     156.0     247.8     373.6      76.9   1768.00
       .44      4.06      6.17      2.90      .065      .050      .065      .000   1764.00   9580.00
   .004244      350.      398.      540.         2        18         0       .00    520.00  10100.00
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      1.65          CWSEL=   1771.32

STA=    9580.    9761.    9986.   10011.   10100.
  PER Q=     39.8     41.9     10.5      7.8
   AREA=    871.8    972.9    156.0    247.8
    VEL=      4.2      4.0      6.2      2.9
  DEPTH=      4.8      4.3      6.2      2.8

*SECNO 1.720

3470 ENCROACHMENT STATIONS=     9650.0   10150.0  TYPE=      1  TARGET=      500.000
     1.720      7.08   1773.08   1771.48   1772.31   1773.43       .35      1.77       .06   1768.00
    9171.0    6834.8     945.3    1390.9    1493.4     133.8     394.8     391.4      81.2   1770.00
       .46      4.58      7.06      3.52      .065      .050      .065      .000   1766.00   9650.00
   .005709      350.      385.      420.         2        14         0       .00    500.00  10150.00


FLOW DISTRIBUTION FOR SECNO=      1.72          CWSEL=   1773.08

STA=    9650.    9993.   10016.   10038.   10108.   10150.
  PER Q=     74.5     10.3      2.8      8.5      3.9
   AREA=   1493.4    133.8     70.0    213.4    111.4
    VEL=      4.6      7.1      3.7      3.7      3.2
  DEPTH=      4.4      5.8      3.1      3.1      2.6

*SECNO 1.810

3470 ENCROACHMENT STATIONS=     9728.0   10250.0  TYPE=      1  TARGET=      522.000
       ************************************************************************
          THIS SECTION IS JUST DOWNSTREAM OF CONFLUENCE WITH JONATHAN WASH
       ************************************************************************

       ******************************************************************
       ***  CONCENTRATION POINT 40MT (WASH TOTAL) - DESERT HILLS WASH  ***
       ******************************************************************
     1.810      7.16   1775.16   1773.41   1774.31   1775.49       .32      2.04       .02   1770.00
    8890.0    5445.9     931.8    2512.3    1236.7     130.4     699.5     409.4      85.6   1770.00
       .48      4.40      7.15      3.59      .065      .050      .065      .000   1768.00   9728.00
   .004847      390.      426.      360.         2        14         0       .00    522.00  10250.00
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.81 CWSEL= 1775.16

STA=	9728.	9993.	10012.	10025.	10028.	10111.	10225.	10250.
PER Q=	61.3	10.5	3.5	.9	16.0	7.4	.4	
AREA=	1236.7	130.4	65.6	17.3	346.2	246.9	23.5	
VEL=	4.4	7.1	4.8	4.8	4.1	2.7	1.5	
DEPTH=	4.7	6.7	5.2	5.2	4.2	2.2	1.0	

1490 NH CARD USED
*SECNO 1.850

3470 ENCROACHMENT STATIONS= 9700.0 10400.0 TYPE= 1 TARGET= 700.000

1.850	8.21	1776.21	1773.88	1775.28	1776.36	.16	.77	.10	1772.00
8890.0	3621.5	595.8	4672.7	1217.6	123.6	1530.9	422.1	88.7	1772.00
.50	2.97	4.82	3.05	.065	.050	.064	.000	1768.00	9700.00
.002541	250.	260.	190.	2	14	0	.00	700.00	10400.00

FLOW DISTRIBUTION FOR SECNO= 1.85 CWSEL= 1776.21

STA=	9700.	9989.	10009.	10134.	10185.	10206.	10216.	10261.	10360.	10400.
PER Q=	40.7	6.7	17.7	7.3	7.3	3.3	6.4	9.5	1.0	
AREA=	1217.6	123.6	523.1	216.9	150.9	60.3	189.8	328.3	61.6	
VEL=	3.0	4.8	3.0	3.0	4.3	4.8	3.0	2.6	1.5	
DEPTH=	4.2	6.2	4.2	4.2	7.4	6.1	4.2	3.3	1.5	

1490 NH CARD USED
*SECNO 1.950

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .40

3470 ENCROACHMENT STATIONS= 9760.0 10260.0 TYPE= 1 TARGET= 500.000

1.950	7.33	1777.33	1775.90	1776.73	1777.48	.14	1.11	.01	1774.00
4143.0	2158.1	500.6	1484.3	746.7	103.7	607.2	441.3	93.9	1774.00
.54	2.89	4.83	2.44	.065	.050	.065	.000	1770.00	9760.00
.003442	500.	500.	270.	2	13	0	.00	500.00	10260.00

FLOW DISTRIBUTION FOR SECNO= 1.95 CWSEL= 1777.33

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9760.    9993.   10015.   10260.
  PER Q=     52.1     12.1     35.8
   AREA=    746.7    103.7    607.2
    VEL=      2.9      4.8      2.4
  DEPTH=      3.2      4.7      2.5

CCHV=     .600 CEHV=     .900
*SECNO 2.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9800.0   10400.0  TYPE=      1  TARGET=      600.000
       ***********************************************************************
            JUST DOWNSTREAM OF 3-10'X5'X60' CBC'S WITH HEAD AND WINGWALLS
            BENEATH CAREFREE HIGHGWAY.
       *******************************************
       ***********************************************************************
       ***  CONCENTRATION POINT 40T (BASIN TOTAL) - DESERT HILLS WASH  ***
       ***********************************************************************
     2.000      7.59   1779.49   1779.49   1779.24   1780.15       .66      1.21       .46   1778.00
    4143.0     435.4    2084.4    1623.2     193.6     236.9     579.7     447.9      96.9   1778.00
       .55      2.25      8.80      2.80      .065      .050      .065      .000   1771.90   9800.00
   .008828      210.      235.      250.         0         9         0       .00    600.00  10400.00


FLOW DISTRIBUTION FOR SECNO=      2.00          CWSEL=   1779.49

STA=    9800.    9980.   10012.   10280.   10400.
  PER Q=     10.5     50.3     27.1     12.0
   AREA=    193.6    236.9    400.4    179.3
    VEL=      2.2      8.8      2.8      2.8
  DEPTH=      1.1      7.4      1.5      1.5
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL CULVERT

SC	CUNO	CUNV	ENTLC	COFQ	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
	3	.012	.50	3.10	.00	5.00	10.00	60.00	11	2	1772.10	1771.90

CHART 11 - BOX CULVERT; SKEWED HEADWALL; CHAMFERED OR BEVELED INLET EDGES
SCALE 2 - HEADWALL SKEWED 30 DEGREES; INLET EDGES CHAMFERED 3/4-INCH

5130, EGIC= 1808.04..MAY BE TOO LARGE IF INLET CONTROLS.
5135, EGOC= 1798.77 ..MAY BE TOO LARGE IF OUTLET CONTROLS.
*SECNO 2.010

3301 HV CHANGED MORE THAN HVINS

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
1808.04	1798.77	-.59	2662.	1446.	10.862	150.0	1778.00	989.

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
WSEL ASSUMED BASED ON MIN DIFF
PROBABLE MINIMUM SPECIFIC ENERGY

3470 ENCROACHMENT STATIONS= 9800.0 10400.0 TYPE= 1 TARGET= 600.000

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*****************************************************************
     JUST UPSTREAM OF 3-10'X5'X60 CBC'S WITH HEAD AND WINGWALLS.
     WEIR FLOW IS PRIMARILY WEST OF BOX CULVERT.  CULVERT SKEWED
     25 DEG. RIGHT TO THE ROAD. CULVERT NOT SKEWED WITH RESPECT
     TO THE CHANNEL.
*****************************************************************
```

2.010	8.68	1780.78	1780.69	1780.38	1782.04	1.26	.10	-.69	1779.00
4143.0	288.5	2847.9	1006.6	329.3	262.2	930.5	449.6	97.7	1779.00
.55	.88	10.86	1.08	.065	.012	.065	.000	1772.10	9800.00
.000689	60.	60.	60.	20	8	0	.00	600.00	10400.00

FLOW DISTRIBUTION FOR SECNO= 2.01 CWSEL= 1780.78

STA=	9800.	9985.	10016.	10290.	10400.
PER Q=	7.0	68.7	15.7	8.6	
AREA=	329.3	262.2	624.7	305.8	
VEL=	.9	10.9	1.0	1.2	
DEPTH=	1.8	8.5	2.3	2.8	

```
    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 2.050
3280 CROSS SECTION      2.05 EXTENDED       .85 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.67


3470 ENCROACHMENT STATIONS=     9800.0   10370.0  TYPE=      1  TARGET=      570.000
     2.050      8.85   1782.85   1778.17   1781.89   1782.87       .02       .09       .74   1776.00
    4143.0    1240.0     195.3    2707.7    1085.9     107.4    2258.0     462.2     100.6   1776.00
       .60      1.14      1.82      1.20      .065      .050      .065      .000   1774.00   9800.00
   .000248      130.      215.      260.         2        13         0       .00    570.00  10370.00


FLOW DISTRIBUTION FOR SECNO=      2.05          CWSEL=   1782.85

STA=    9800.    9820.    9824.    9991.   10004.   10370.
  PER Q=      1.9       .5     27.5      4.7     65.4
   AREA=     90.9     20.2    974.8    107.4   2258.0
    VEL=       .9      1.0      1.2      1.8      1.2
  DEPTH=      4.6      4.8      5.8      8.1      6.2

*SECNO 2.150

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .37


3470 ENCROACHMENT STATIONS=     9835.0   10300.0  TYPE=      1  TARGET=      465.000
     2.150      5.11   1783.11   1781.18   1782.16   1783.23       .12       .27       .09   1780.00
    4143.0      39.8    2348.3    1754.9      24.3     724.5     868.1     491.7     106.7   1780.00
       .66      1.64      3.24      2.02      .065      .050      .065      .000   1778.00   9835.00
   .001775      510.      500.      510.         1        17         0       .00    465.00  10300.00


FLOW DISTRIBUTION FOR SECNO=      2.15          CWSEL=   1783.11

STA=    9835.    9843.   10017.   10026.   10249.   10300.
  PER Q=      1.0     56.7      1.4     34.1      6.8
   AREA=     24.3    724.5     29.0    689.6    149.5
    VEL=      1.6      3.2      2.0      2.0      1.9
  DEPTH=      3.0      4.2      3.1      3.1      2.9
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.240

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .37

3470 ENCROACHMENT STATIONS= 9850.7 10160.6 TYPE= 1 TARGET= 309.899

2.240	4.50	1784.50	1783.93	1784.22	1784.98	.48	1.43	.32	1782.00
4143.0	1632.2	784.7	1726.1	343.1	97.0	363.6	502.1	110.1	1782.00
.68	4.76	8.09	4.75	.065	.050	.065	.000	1780.00	9850.70
.013081	525.	270.	400.	2	14	0	.00	309.90	10160.60

FLOW DISTRIBUTION FOR SECNO= 2.24 CWSEL= 1784.50

STA=	9851.	9987.	9988.	10014.	10055.	10130.	10161.
PER Q=	39.1	.3	18.9	11.9	21.8	8.0	
AREA=	340.6	2.5	97.0	102.4	187.4	73.8	
VEL=	4.8	4.8	8.1	4.8	4.8	4.5	
DEPTH=	2.5	2.5	3.7	2.5	2.5	2.4	

*SECNO 2.340

WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.75

3470 ENCROACHMENT STATIONS= 9850.4 10150.8 TYPE= 1 TARGET= 300.399

2.340	6.03	1788.23	1786.60	1787.22	1788.46	.24	3.34	.14	1784.00
4143.0	2045.4	585.6	1512.0	555.3	102.5	463.0	512.8	113.5	1784.00
.71	3.68	5.71	3.27	.065	.050	.065	.000	1782.20	9850.40
.004265	480.	500.	480.	2	6	0	.00	300.40	10150.80

FLOW DISTRIBUTION FOR SECNO= 2.34 CWSEL= 1788.23

STA=	9850.	9990.	10010.	10151.
PER Q=	49.4	14.1	36.5	
AREA=	555.3	102.5	463.0	
VEL=	3.7	5.7	3.3	
DEPTH=	4.0	5.1	3.3	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.430

3470 ENCROACHMENT STATIONS= 9700.0 10030.0 TYPE= 1 TARGET= 330.000

2.430	5.91	1790.91	1790.18	1790.28	1791.35	.43	2.71	.18	1788.00
4143.0	2855.9	1269.8	17.4	733.9	168.5	6.8	523.8	116.9	1788.00
.74	3.89	7.53	2.56	.065	.050	.065	.000	1785.00	9700.00
.008121	460.	490.	490.	3	9	0	.00	325.29	10025.29

FLOW DISTRIBUTION FOR SECNO= 2.43 CWSEL= 1790.91

STA=	9700.	9735.	9865.	9960.	9985.	10020.	10023.	10025.
PER Q=	5.3	28.1	28.1	7.4	30.6	.4	.0	
AREA=	70.1	314.0	276.9	72.9	168.5	5.7	1.0	
VEL=	3.1	3.7	4.2	4.2	7.5	2.8	1.2	
DEPTH=	2.0	2.4	2.9	2.9	4.8	1.9	.5	

*SECNO 2.530

3470 ENCROACHMENT STATIONS= 9970.9 10220.7 TYPE= 1 TARGET= 249.800

2.530	6.21	1794.21	1792.91	1793.63	1794.57	.36	3.17	.04	1790.00
4143.0	283.9	732.5	3126.6	71.7	104.2	746.0	532.9	119.7	1790.00
.76	3.96	7.03	4.19	.065	.050	.065	.000	1788.00	9970.90
.006368	400.	500.	450.	3	10	0	.00	249.80	10220.70

FLOW DISTRIBUTION FOR SECNO= 2.53 CWSEL= 1794.21

STA=	9971.	9990.	10010.	10060.	10221.
PER Q=	6.9	17.7	19.6	55.9	
AREA=	71.7	104.2	185.4	560.6	
VEL=	4.0	7.0	4.4	4.1	
DEPTH=	3.8	5.2	3.7	3.5	

*SECNO 2.610

3470 ENCROACHMENT STATIONS= 9933.0 10242.0 TYPE= 1 TARGET= 309.000

2.610	7.15	1797.15	1796.16	1796.56	1797.52	.37	2.94	.01	1794.00
4143.0	319.8	1210.5	2612.7	108.7	173.8	686.3	543.0	122.7	1794.00
.79	2.94	6.96	3.81	.065	.050	.065	.000	1790.00	9933.00
.006252	450.	460.	470.	1	6	0	.00	309.00	10242.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.61 CWSEL= 1797.15

STA=	9933.	9938.	9987.	10020.	10073.	10173.	10242.
PER Q=	.2	7.5	29.2	15.7	29.4	18.0	
AREA=	4.6	104.1	173.8	167.1	314.1	205.1	
VEL=	1.5	3.0	7.0	3.9	3.9	3.6	
DEPTH=	.9	2.1	5.3	3.1	3.1	3.0	

*SECNO 2.710

3470 ENCROACHMENT STATIONS= 9900.6 10180.5 TYPE= 1 TARGET= 279.900

2.710	6.12	1800.12	1799.04	1799.45	1800.49	.38	2.97	.00	1796.00
4143.0	1513.6	1090.7	1538.7	347.5	155.4	451.9	554.0	126.0	1796.00
.82	4.36	7.02	3.41	.065	.050	.065	.000	1794.00	9900.60
.005768	500.	500.	490.	1	14	0	.00	279.90	10180.50

FLOW DISTRIBUTION FOR SECNO= 2.71 CWSEL= 1800.12

STA=	9901.	9911.	9985.	10013.	10108.	10180.
PER Q=	3.7	32.9	26.3	26.7	10.4	
AREA=	42.6	305.0	155.4	298.2	153.6	
VEL=	3.6	4.5	7.0	3.7	2.8	
DEPTH=	4.1	4.1	5.6	3.1	2.1	

*SECNO 2.790

3470 ENCROACHMENT STATIONS= 9900.0 10100.5 TYPE= 1 TARGET= 200.500

2.790	8.39	1802.39	1801.06	1801.58	1802.90	.51	2.28	.12	1798.00
4143.0	1465.9	1335.2	1341.9	335.7	167.5	323.2	561.8	128.2	1798.00
.84	4.37	7.97	4.15	.065	.050	.065	.000	1794.00	9900.00
.006217	310.	400.	440.	1	11	0	.00	200.50	10100.50

FLOW DISTRIBUTION FOR SECNO= 2.79 CWSEL= 1802.39

STA=	9900.	9986.	10011.	10100.
PER Q=	35.4	32.2	32.4	
AREA=	335.7	167.5	323.2	
VEL=	4.4	8.0	4.2	
DEPTH=	3.9	6.6	3.6	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2.870

3470 ENCROACHMENT STATIONS= 9947.0 10300.0 TYPE= 1 TARGET= 353.000

2.870	6.90	1804.90	1803.39	1804.40	1805.14	.23	2.07	.17	1802.00
4143.0	173.8	1558.3	2410.9	80.1	315.1	773.0	571.4	130.8	1802.00
.87	2.17	4.95	3.12	.065	.050	.065	.000	1798.00	9947.00
.003869	500.	450.	380.	2	18	0	.00	353.00	10300.00

FLOW DISTRIBUTION FOR SECNO= 2.87 CWSEL= 1804.90

STA=	9947.	9948.	9990.	10060.	10065.	10068.	10073.	10138.	10143.	10300.
PER Q=	.0	4.2	37.6	.9	1.0	2.2	21.5	1.1	31.4	
AREA=	.7	79.5	315.1	13.1	13.4	22.5	253.3	15.5	455.2	
VEL=	.8	2.2	4.9	2.9	3.2	4.1	3.5	2.9	2.9	
DEPTH=	.8	1.9	4.5	2.9	3.9	4.9	3.9	2.9	2.9	

*SECNO 2.960

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

ENCROACHMENT STATIONS= 9951.0 10280.0 TYPE= 1 TARGET= 329.000

2.960	5.58	1807.58	1807.12	1807.14	1808.12	.54	2.71	.27	1804.00
4143.0	308.1	667.0	3167.9	74.3	69.0	646.2	580.6	134.0	1804.00
.89	4.15	9.66	4.90	.065	.050	.065	.000	1802.00	9951.00
.014203	380.	400.	410.	2	13	0	.00	329.00	10280.00

FLOW DISTRIBUTION FOR SECNO= 2.96 CWSEL= 1807.58

STA=	9951.	9980.	9991.	10006.	10218.	10280.
PER Q=	4.0	3.5	16.1	67.8	8.7	
AREA=	45.9	28.4	69.0	547.3	99.0	
VEL=	3.6	5.1	9.7	5.1	3.6	
DEPTH=	1.6	2.6	4.7	2.6	1.6	

*SECNO 3.040

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.74

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9932.3   10320.0  TYPE=      1  TARGET=      387.700
     3.040      4.93   1810.93   1809.70   1809.92   1811.16       .23      2.85       .19   1808.00
    4143.0     164.5    1130.2    2848.3      64.9     217.3     894.5     589.0     137.1   1808.00
       .92      2.53      5.20      3.18      .065      .050      .065      .000   1806.00   9932.30
   .004675      390.      400.      370.         2        18         0       .00    387.70  10320.00


FLOW DISTRIBUTION FOR SECNO=      3.04          CWSEL=   1810.93

STA=    9932.    9962.   10015.   10048.   10244.   10320.
  PER Q=      4.0     27.3      7.5     44.4     16.9
   AREA=     64.9    217.3     96.7    573.9    223.9
    VEL=      2.5      5.2      3.2      3.2      3.1
  DEPTH=      2.2      4.1      2.9      2.9      2.9

*SECNO 3.130

3470 ENCROACHMENT STATIONS=     9925.8   10202.4  TYPE=      1  TARGET=      276.601
       ******************************************************
       ***  CONCENTRATION POINT 41T - DESERT HILLS WASH  ***
       ******************************************************
     3.130      5.40   1813.40   1812.50   1812.76   1813.77       .37      2.48       .13   1810.00
    3669.0     857.8    1024.3    1786.9     202.8     148.8     487.8     599.2     140.4   1810.00
       .95      4.23      6.88      3.66      .065      .050      .065      .000   1808.00   9925.80
   .007122      440.      440.      440.         3        10         0       .00    276.60  10202.40


FLOW DISTRIBUTION FOR SECNO=      3.13          CWSEL=   1813.40

STA=    9926.    9936.    9985.   10018.   10202.
  PER Q=      3.5     19.9     27.9     48.7
   AREA=     35.3    167.4    148.8    487.8
    VEL=      3.6      4.4      6.9      3.7
  DEPTH=      3.4      3.4      4.6      2.6

*SECNO 3.200

3470 ENCROACHMENT STATIONS=     9835.0   10038.6  TYPE=      1  TARGET=      203.600
     3.200      5.74   1815.74   1814.25   1815.30   1816.13       .39      2.35       .01   1812.00
    3669.0    2505.1     806.9     357.0     573.0     117.9      91.6     605.7     142.3   1812.00
       .97      4.37      6.84      3.90      .065      .050      .065      .000   1810.00   9835.00
   .006492      350.      345.      340.         2        19         0       .00    203.60  10038.60
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      3.20          CWSEL=   1815.74

STA=    9835.    9988.   10012.   10039.
  PER Q=     68.3     22.0      9.7
   AREA=    573.0    117.9     91.6
    VEL=      4.4      6.8      3.9
  DEPTH=      3.7      4.9      3.4

*SECNO 3.260

3470 ENCROACHMENT STATIONS=     9900.0   10070.8  TYPE=      1  TARGET=      170.800
     3.260      6.29   1818.29   1817.45   1817.81   1818.94       .65      2.57       .24   1814.00
    3669.0    1398.8    1125.2    1145.0     286.4     125.7     222.0     611.0     143.8   1814.00
       .98      4.88      8.95      5.16      .065      .050      .065      .000   1812.00   9900.00
   .009652      335.      325.      315.         1        10         0       .00    170.80  10070.80


FLOW DISTRIBUTION FOR SECNO=      3.26          CWSEL=   1818.29

STA=    9900.    9987.   10010.   10071.
  PER Q=     38.1     30.7     31.2
   AREA=    286.4    125.7    222.0
    VEL=      4.9      9.0      5.2
  DEPTH=      3.3      5.5      3.7

*SECNO 3.310
3280 CROSS SECTION      3.31 EXTENDED       .17 FEET


3470 ENCROACHMENT STATIONS=     9900.6   10060.0  TYPE=      1  TARGET=      159.400
     3.310      6.47   1820.47   1819.25   1820.11   1821.08       .60      2.10       .03   1816.00
    3669.0    1533.7    1225.4     909.9     325.2     146.2     185.6     614.6     144.7   1816.00
       .99      4.72      8.38      4.90      .065      .050      .065      .000   1814.00   9900.60
   .007842      250.      235.      240.         3        15         0       .00    159.40  10060.00


FLOW DISTRIBUTION FOR SECNO=      3.31          CWSEL=   1820.47

STA=    9901.    9989.   10014.   10060.
  PER Q=     41.8     33.4     24.8
   AREA=    325.2    146.2    185.6
    VEL=      4.7      8.4      4.9
  DEPTH=      3.7      5.8      4.1
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.400

3470 ENCROACHMENT STATIONS= 9950.9 10100.0 TYPE= 1 TARGET= 149.100

3.400	6.70	1823.70	1822.11	1822.99	1824.27	.57	3.17	.02	1820.00
3669.0	173.6	3191.0	304.4	50.6	501.8	93.4	621.9	146.4	1820.00
1.01	3.43	6.36	3.26	.065	.050	.065	.000	1817.00	9950.90
.005490	440.	480.	580.	3	15	0	.00	149.10	10100.00

FLOW DISTRIBUTION FOR SECNO= 3.40 CWSEL= 1823.70

STA=	9951.	9965.	10067.	10100.
PER Q=	4.7	87.0	8.3	
AREA=	50.6	501.8	93.4	
VEL=	3.4	6.4	3.3	
DEPTH=	3.6	4.9	2.8	

*SECNO 3.490

3470 ENCROACHMENT STATIONS= 9900.0 10100.7 TYPE= 1 TARGET= 200.700

3.490	4.43	1826.43	1824.82	1825.85	1826.88	.45	2.54	.07	1824.00
3669.0	21.8	2095.2	1552.0	10.3	344.8	362.5	628.9	148.1	1822.00
1.04	2.13	6.08	4.28	.065	.050	.065	.000	1822.00	9920.74
.005930	460.	450.	430.	2	18	0	.00	179.96	10100.70

FLOW DISTRIBUTION FOR SECNO= 3.49 CWSEL= 1826.43

STA=	9921.	9929.	10009.	10101.
PER Q=	.6	57.1	42.3	
AREA=	10.3	344.8	362.5	
VEL=	2.1	6.1	4.3	
DEPTH=	1.2	4.3	3.9	

*SECNO 3.590

3470 ENCROACHMENT STATIONS= 9958.0 10100.4 TYPE= 1 TARGET= 142.400

3.590	5.82	1829.82	1828.73	1829.12	1830.58	.75	3.42	.28	1826.00
3669.0	258.9	2270.1	1140.0	60.9	279.0	252.7	636.4	149.9	1826.00
1.06	4.25	8.14	4.51	.065	.050	.065	.000	1824.00	9958.00
.008017	520.	510.	480.	2	8	0	.00	142.40	10100.40

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.59 CWSEL= 1829.82

STA=	9958.	9975.	10026.	10100.
PER Q=	7.1	61.9	31.1	
AREA=	60.9	279.0	252.7	
VEL=	4.3	8.1	4.5	
DEPTH=	3.6	5.5	3.4	

*SECNO 3.670

3470 ENCROACHMENT STATIONS= 9850.0 10065.0 TYPE= 1 TARGET= 215.000

3.670	6.97	1832.97	1831.76	1832.46	1833.41	.44	2.65	.19	1830.00
3669.0	1098.7	2534.8	35.4	323.7	423.2	13.9	642.6	151.6	1830.00
1.08	3.39	5.99	2.55	.065	.050	.065	.000	1826.00	9850.00
.005576	420.	400.	370.	2	6	0	.00	215.00	10065.00

FLOW DISTRIBUTION FOR SECNO= 3.67 CWSEL= 1832.97

STA=	9850.	9880.	9965.	10060.	10065.
PER Q=	5.7	24.3	69.1	1.0	
AREA=	71.1	252.5	423.2	13.9	
VEL=	2.9	3.5	6.0	2.6	
DEPTH=	2.4	3.0	4.5	2.8	

*SECNO 3.690

3470 ENCROACHMENT STATIONS= 9850.0 10050.0 TYPE= 1 TARGET= 200.000

3.690	6.66	1833.66	1832.93	1833.38	1834.35	.69	.71	.22	1830.00
3669.0	1099.7	2180.4	388.9	289.4	272.4	91.8	644.3	152.1	1830.00
1.08	3.80	8.00	4.24	.065	.050	.065	.000	1827.00	9850.00
.008046	100.	110.	120.	2	12	0	.00	200.00	10050.00

FLOW DISTRIBUTION FOR SECNO= 3.69 CWSEL= 1833.66

STA=	9850.	9870.	9970.	10022.	10050.
PER Q=	1.4	28.6	59.4	10.6	
AREA=	23.2	266.2	272.4	91.8	
VEL=	2.2	3.9	8.0	4.2	
DEPTH=	1.2	2.7	5.2	3.3	

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   ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    L-BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      R-BANK ELEV
  TIME      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
  SLOPE     XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


*SECNO 3.730

3470 ENCROACHMENT STATIONS=     9850.6   10040.8  TYPE=      1  TARGET=      190.200
   3.730      7.66   1835.66   1834.54   1835.43   1836.20       .54      1.76       .09   1832.00
  3669.0    1194.9    2473.0       1.1     359.0     365.0       1.4     648.6     153.3   1832.00
    1.10      3.33      6.77       .82      .065      .050      .065      .000   1828.00   9850.60
 .005293      280.      270.      260.         2         6         0       .00    190.20  10040.80


FLOW DISTRIBUTION FOR SECNO=      3.73          CWSEL=   1835.66

STA=    9851.    9975.   10040.   10041.
  PER Q=     32.6     67.4       .0
   AREA=    359.0    365.0      1.4
    VEL=      3.3      6.8       .8
  DEPTH=      2.9      5.6      3.7

*SECNO 3.810

3470 ENCROACHMENT STATIONS=     9870.8   10050.0  TYPE=      1  TARGET=      179.200
        ******************************************************
        ***  CONCENTRATION POINT 42T - DESERT HILLS WASH  ***
        ******************************************************
   3.810      5.59   1837.59   1836.05   1836.97   1837.92       .33      1.60       .13   1834.00
  2692.0     905.0    1719.4      67.7     314.9     322.6      26.7     654.2     154.8   1834.00
    1.12      2.87      5.33      2.54      .065      .050      .065      .000   1832.00   9870.80
 .003818      345.      350.      365.         2        11         0       .00    179.20  10050.00


FLOW DISTRIBUTION FOR SECNO=      3.81          CWSEL=   1837.59

STA=    9871.    9977.   10042.   10050.
  PER Q=     33.6     63.9      2.5
   AREA=    314.9    322.6     26.7
    VEL=      2.9      5.3      2.5
  DEPTH=      3.0      5.0      3.3

*SECNO 3.870

3470 ENCROACHMENT STATIONS=     9925.0   10050.9  TYPE=      1  TARGET=      125.900
   3.870      5.71   1839.71   1838.19   1839.33   1840.21       .50      2.13       .16   1836.00
  2692.0     645.9    2010.1      36.0     185.4     321.0      14.2     660.7     156.5   1836.00
    1.14      3.48      6.26      2.54      .065      .050      .065      .000   1834.00   9925.00
 .005215      480.      480.      480.         2        19         0       .00    125.90  10050.90
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      3.87          CWSEL=   1839.71

STA=    9925.    9983.   10047.   10051.
  PER Q=     24.0     74.7      1.3
   AREA=    185.4    321.0     14.2
    VEL=      3.5      6.3      2.5
  DEPTH=      3.2      5.0      3.6

*SECNO 3.960

3470 ENCROACHMENT STATIONS=     9990.0   10280.9  TYPE=      1  TARGET=      290.900
     3.960      6.25   1842.25   1840.75   1841.72   1842.42       .18      2.02       .20 100000.00
    2692.0        .0    1153.0    1539.0        .0     274.8     600.0     668.6     158.8   1840.00
      1.19       .00      4.20      2.57      .000      .050      .065      .000   1836.00   9990.00
   .003291      450.      500.      500.         2         9         0       .00    290.90  10280.90


FLOW DISTRIBUTION FOR SECNO=      3.96          CWSEL=   1842.25

STA=    9990.   10058.   10160.   10260.   10270.   10281.
  PER Q=     42.8     19.2     32.9      3.3      1.8
   AREA=    274.8    229.3    314.8     31.5     24.5
    VEL=      4.2      2.3      2.8      2.8      2.0
  DEPTH=      4.0      2.2      3.1      3.1      2.2

*SECNO 4.030

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9950.5   10062.0  TYPE=      1  TARGET=      111.500
     4.030      7.02   1845.02   1845.02   1844.40   1846.50      1.48      2.09      1.17   1842.00
    2692.0     509.7    1873.8     308.5      89.2     167.7      74.5     673.3     160.4   1842.00
      1.20      5.72     11.17      4.14      .065      .050      .065      .000   1838.00   9950.50
   .016295      330.      330.      340.         0         8         0       .00    111.50  10062.00


FLOW DISTRIBUTION FOR SECNO=      4.03          CWSEL=   1845.02
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9951.    9980.   10012.   10040.   10062.
  PER Q=     18.9     69.6      9.8      1.7
   AREA=     89.2    167.7     56.6     17.9
    VEL=      5.7     11.2      4.7      2.5
  DEPTH=      3.0      5.2      2.0       .8

1490 NH CARD USED
*SECNO 4.140

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.64


3470 ENCROACHMENT STATIONS=     9983.3   10300.6  TYPE=      1  TARGET=      317.300
     4.140      6.95   1848.95   1846.39   1848.17   1849.03       .08      1.69       .84   1846.00
    2692.0        .0     302.0    2390.0        .1     109.8    1105.4     683.2     163.1   1846.00
      1.26       .01      2.75      2.16      .050      .050      .060      .000   1842.00   9983.30
   .001227      510.      570.      560.         5        14         0       .00    317.30  10300.60


 DISTRIBUTION FOR SECNO=      4.14          CWSEL=   1848.95

STA=    9983.   10008.   10147.   10177.   10186.   10189.   10215.   10301.
  PER Q=     11.2     25.0      8.9      6.3      3.3     19.3     26.0
   AREA=    109.8    408.6    120.3     50.6     23.2    152.6    350.1
    VEL=      2.7      1.6      2.0      3.4      3.8      3.4      2.0
  DEPTH=      4.4      2.9      3.9      5.9      6.9      5.9      4.1

CCHV=     .100 CEHV=     .300
*SECNO 4.230

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9900.6   10016.0  TYPE=      1  TARGET=      115.400
        ****************************************************
        ***  CONCENTRATION POINT 43 - DESERT HILLS WASH  ***
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    ****************************************************
     4.230      5.27   1851.67   1851.67   1851.59   1852.64       .97      1.23       .27   1850.00
    1787.0     505.5    1269.4      12.1     111.0     142.0       4.1     691.5     165.6   1850.00
      1.28      4.55      8.94      2.92      .065      .050      .065      .000   1846.40   9900.60
   .020245      492.      492.      492.         0        14         0       .00    115.40  10016.00


FLOW DISTRIBUTION FOR SECNO=      4.23          CWSEL=   1851.67

STA=    9901.    9904.    9916.    9966.   10012.   10016.
  PER Q=      1.4      5.3     21.5     71.0       .7
   AREA=      6.9     19.9     84.2    142.0      4.1
    VEL=      3.8      4.8      4.6      8.9      2.9
  DEPTH=      1.8      1.8      1.7      3.1       .9

*SECNO 4.280

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.92


3470 ENCROACHMENT STATIONS=     9960.0   10060.0  TYPE=      1  TARGET=      100.000
     4.280      6.84   1854.84   1853.46   1854.72   1855.35       .51      2.66       .05   1852.00
    1787.0      93.2    1549.0     144.8      34.2     255.1      57.0     693.4     166.3   1852.00
      1.30      2.72      6.07      2.54      .065      .050      .065      .000   1848.00   9960.00
   .005476      220.      290.      350.         4         8         0       .00    100.00  10060.00


FLOW DISTRIBUTION FOR SECNO=      4.28          CWSEL=   1854.84

STA=    9960.    9975.   10030.   10060.
  PER Q=      5.2     86.7      8.1
   AREA=     34.2    255.1     57.0
    VEL=      2.7      6.1      2.5
  DEPTH=      2.3      4.6      1.9

*SECNO 4.370

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .68


3470 ENCROACHMENT STATIONS=     9967.0   10250.0  TYPE=      1  TARGET=      283.000
     4.370      3.72   1857.72   1857.25   1857.66   1858.35       .63      2.96       .04   1856.00
    1787.0      17.1    1635.7     134.3       7.4     247.5      59.4     696.3     167.4   1856.00
      1.31      2.31      6.61      2.26      .065      .050      .065      .000   1854.00   9967.00
   .011934      420.      380.      375.         3        14         0       .00    161.93  10128.93
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.37 CWSEL= 1857.72

STA=	9967.	9975.	10060.	10129.
PER Q=	1.0	91.5	7.5	
AREA=	7.4	247.5	59.4	
VEL=	2.3	6.6	2.3	
DEPTH=	.9	2.9	.9	

*SECNO 4.390

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.67

3470 ENCROACHMENT STATIONS= 9960.0 10200.5 TYPE= 1 TARGET= 240.500

****
JUST DOWNSTREAM OF 2-48", 1-60" CMPs WITH
HEADWALL BENEATH JOY RANCH ROAD
****

4.390	8.46	1861.46	1858.75	1860.96	1861.90	.43	3.53	.02	1860.00
1787.0	41.3	1484.2	261.5	25.9	258.0	182.6	700.8	169.6	1860.00
1.34	1.59	5.75	1.43	.070	.055	.070	.000	1853.00	9960.00
.004276	560.	540.	420.	3	14	0	.00	240.50	10200.50

FLOW DISTRIBUTION FOR SECNO= 4.39 CWSEL= 1861.46

STA=	9960.	9980.	10020.	10050.	10175.	10200.
PER Q=	2.3	83.1	4.4	9.1	1.1	
AREA=	25.9	258.0	43.9	120.4	18.3	
VEL=	1.6	5.8	1.8	1.4	1.1	
DEPTH=	1.3	6.5	1.5	1.0	.7	

SPECIAL CULVERT

SC	CUNO	CUNV	ENTLC	COFQ	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
	3	.012	.50	3.10	.00	4.00	.00	77.00	1	1	1854.00	1853.00

CHART 1 - CONCRETE PIPE CULVERT; NO BEVELED RING ENTRANCE
SCALE 1 - SQUARE EDGE ENTRANCE WITH HEADWALL

5130, EGIC= 1946.08..MAY BE TOO LARGE IF INLET CONTROLS.
5135, EGOC= 1925.08 ..MAY BE TOO LARGE IF OUTLET CONTROLS.
*SECNO 4.410

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
1946.08	1925.08	.29	1343.	445.	8.362	37.7	1860.50	502.

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

3470 ENCROACHMENT STATIONS= 9950.0 10140.0 TYPE= 1 TARGET= 190.000

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*******************************************************
     JUST UPSTREAM OF 2-48", 1-60" CMP's WITH
     HEADWALL BENEATH JOY RANCH ROAD.  NO SKEW.
*******************************************************
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4.410	8.26	1862.26	1862.26	1862.19	1863.02	.76	.52	-.22	1860.50
1787.0	236.1	1182.1	368.8	72.0	141.4	145.6	701.6	169.9	1860.50
1.35	3.28	8.36	2.53	.070	.055	.070	.000	1854.00	9950.00
.012122	77.	77.	77.	20	6	0	.00	190.00	10140.00

FLOW DISTRIBUTION FOR SECNO= 4.41 CWSEL= 1862.26

	9950.	9970.	9992.	10009.	10030.	10140.
PER Q=	5.9	7.3	66.2	5.4	15.2	
AREA=	33.5	38.5	141.4	31.5	114.1	
VEL=	3.1	3.4	8.4	3.1	2.4	
DEPTH=	1.7	1.8	8.2	1.5	1.0	

*SECNO 4.480

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.72

3470 ENCROACHMENT STATIONS= 9900.0 10040.0 TYPE= 1 TARGET= 140.000

4.480	7.33	1863.33	1859.49	1862.86	1863.41	.08	.33	.07	1858.00
1787.0	628.5	1158.5	.0	345.9	452.8	.0	703.5	170.5	100000.00
1.36	1.82	2.56	.00	.070	.055	.000	.000	1856.00	9900.00
.000876	130.	155.	160.	2	13	0	.00	140.00	10040.00

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      4.48          CWSEL=   1863.33

STA=    9900.    9965.   10045.
  PER Q=     35.2     64.8
   AREA=    345.9    452.8
    VEL=      1.8      2.6
  DEPTH=      5.3      6.0

*SECNO 4.530

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .21


3470 ENCROACHMENT STATIONS=     9973.0   10100.0  TYPE=      1  TARGET=      127.000
     4.530      4.49   1863.79   1863.60   1863.64   1864.62       .83       .99       .22   1862.00
    1787.0      32.0    1419.3     335.7      11.3     178.4      85.6     708.5     171.7   1862.00
      1.38      2.84      7.96      3.92      .070      .055      .070      .000   1859.30   9973.00
   .019987      370.      420.      430.         4        14         0       .00    127.00  10100.00


FLOW DISTRIBUTION FOR SECNO=      4.53          CWSEL=   1863.79

STA=    9973.    9985.   10044.   10100.
  PER Q=      1.8     79.4     18.8
   AREA=     11.3    178.4     85.6
    VEL=      2.8      8.0      3.9
  DEPTH=       .9      3.0      1.5

*SECNO 4.590

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.64


3470 ENCROACHMENT STATIONS=     9961.0   10040.0  TYPE=      1  TARGET=       79.000
     4.590      5.66   1867.36   1865.93   1866.81   1867.92       .56      3.27       .03   1864.00
    1787.0     108.5    1430.1     248.4      32.5     221.4      68.1     710.5     172.4   1864.00
      1.39      3.34      6.46      3.65      .070      .055      .070      .000   1861.70   9961.00
   .007434      320.      280.      300.         3        11         0       .00     79.00  10040.00
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.59 CWSEL= 1867.36

STA=	9961.	9971.	10019.	10040.
PER Q=	6.1	80.0	13.9	
AREA=	32.5	221.4	68.1	
VEL=	3.3	6.5	3.6	
DEPTH=	3.2	4.6	3.2	

*SECNO 4.680

3470 ENCROACHMENT STATIONS= 9969.0 10060.0 TYPE= 1 TARGET= 91.000

4.680	4.03	1871.03	1869.95	1870.16	1871.58	.55	3.67	.00	1868.00
1787.0	93.3	1641.3	52.5	26.7	266.8	16.2	713.6	173.3	1868.00
1.41	3.49	6.15	3.24	.070	.055	.070	.000	1867.00	9969.00
.009634	435.	435.	435.	3	11	0	.00	91.00	10060.00

FLOW DISTRIBUTION FOR SECNO= 4.68 CWSEL= 1871.03

STA=	9969.	9979.	10054.	10060.
PER Q=	5.2	91.8	2.9	
AREA=	26.7	266.8	16.2	
VEL=	3.5	6.2	3.2	
DEPTH=	2.7	3.5	2.9	

*SECNO 4.750

3470 ENCROACHMENT STATIONS= 9954.0 10050.0 TYPE= 1 TARGET= 96.000

4.750	4.42	1874.52	1873.24	1874.46	1874.97	.45	3.37	.01	1872.00
1787.0	.7	1786.3	.0	.8	332.2	.0	716.5	174.1	100000.00
1.43	.81	5.38	.00	.070	.055	.000	.000	1870.10	9954.00
.007806	390.	390.	390.	2	15	0	.00	96.00	10050.00

FLOW DISTRIBUTION FOR SECNO= 4.75 CWSEL= 1874.52

STA=	9954.	9954.	10050.
PER Q=	.0	100.0	
AREA=	.8	332.2	
VEL=	.8	5.4	
DEPTH=	2.5	3.5	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4.810

3470 ENCROACHMENT STATIONS= 9975.0 10075.0 TYPE= 1 TARGET= 100.000

4.810	3.89	1877.39	1876.23	1876.87	1877.87	.48	2.89	.01	1874.00
1787.0	35.7	1028.4	722.9	11.7	162.8	164.9	719.1	174.9	1874.00
1.45	3.06	6.32	4.38	.070	.055	.070	.000	1873.50	9975.00
.009782	250.	318.	390.	2	14	0	.00	100.00	10075.00

FLOW DISTRIBUTION FOR SECNO= 4.81 CWSEL= 1877.39

STA=	9975.	9979.	10024.	10039.	10061.	10075.
PER Q=	2.0	57.5	11.8	17.5	11.1	
AREA=	11.7	162.8	47.1	69.6	48.3	
VEL=	3.1	6.3	4.5	4.5	4.1	
DEPTH=	3.1	3.6	3.1	3.1	3.4	

*SECNO 4.880

3470 ENCROACHMENT STATIONS= 9980.0 10047.0 TYPE= 1 TARGET= 67.000

4.880	5.17	1881.17	1880.32	1880.91	1882.05	.89	4.07	.12	1878.00
1787.0	53.4	1575.7	157.8	14.5	199.4	37.5	721.6	175.6	1878.00
1.46	3.68	7.90	4.20	.070	.055	.070	.000	1876.00	9980.00
.012811	365.	365.	365.	3	8	0	.00	67.00	10047.00

FLOW DISTRIBUTION FOR SECNO= 4.88 CWSEL= 1881.17

STA=	9980.	9985.	10033.	10047.
PER Q=	3.0	88.2	8.8	
AREA=	14.5	199.4	37.5	
VEL=	3.7	7.9	4.2	
DEPTH=	2.8	4.2	2.7	

*SECNO 4.950

3470 ENCROACHMENT STATIONS= 9960.0 10040.0 TYPE= 1 TARGET= 80.000

****
CONFLUENCE WITH SMALL, UNNAMED WASH
****

4.950	5.71	1885.21	1883.95	1885.07	1885.82	.61	3.74	.03	1882.00
1787.0	108.1	1573.9	105.0	35.6	239.9	32.3	724.0	176.2	1882.00
1.48	3.04	6.56	3.25	.070	.055	.070	.000	1879.50	9960.00
.007793	380.	380.	380.	2	15	0	.00	80.00	10040.00

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      4.95          CWSEL=   1885.21

STA=    9960.    9976.   10028.   10040.
  PER Q=      6.1      88.1      5.9
   AREA=     35.6     239.9     32.3
    VEL=      3.0       6.6      3.3
  DEPTH=      2.2       4.6      2.7

*SECNO 5.020

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .45


3470 ENCROACHMENT STATIONS=     9949.0   10019.9  TYPE=      1  TARGET=       70.900
     5.020      4.71   1888.21   1887.66   1888.16   1888.90       .68      3.05       .02   1886.00
    1000.0     115.1     861.2      23.7      41.0     122.0       9.2     725.9     176.8   1886.00
      1.50      2.81      7.06      2.56      .070      .055      .070      .000   1883.50   9949.00
   .011959      330.      340.      350.         3        16         0       .00     70.90  10019.90


FLOW DISTRIBUTION FOR SECNO=      5.02          CWSEL=   1888.21

STA=    9949.    9979.   10012.   10019.   10020.
  PER Q=     11.5      86.1      2.4       .0
   AREA=     41.0     122.0      9.2       .1
    VEL=      2.8       7.1      2.6       .0
  DEPTH=      1.4       3.8      1.2       .1

*SECNO 5.110

3470 ENCROACHMENT STATIONS=     9952.0   10015.0  TYPE=      1  TARGET=       63.000
     5.110      4.63   1893.33   1892.65   1893.33   1893.95       .62      5.05       .01   1890.00
    1000.0     271.5     715.9      12.6      73.0     100.4       5.2     727.6     177.5   1890.00
      1.52      3.72      7.13      2.43      .070      .055      .070      .000   1888.70   9952.00
   .011116      438.      438.      438.         4        15         0       .00     63.00  10015.00


FLOW DISTRIBUTION FOR SECNO=      5.11          CWSEL=   1893.33

STA=    9952.    9960.    9988.   10013.   10015.
  PER Q=      1.8      25.4     71.6      1.3
   AREA=      8.3      64.7    100.4      5.2
    VEL=      2.1       3.9      7.1      2.4
  DEPTH=      1.0       2.3      4.0      3.1
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 5.180

3470 ENCROACHMENT STATIONS=     9976.0   10032.0  TYPE=      1  TARGET=      56.000
     5.180      4.15   1898.55   1898.21   1898.37   1899.44       .89      5.41       .08   1896.00
    1000.0      48.3     781.6     170.1      13.1      95.0      37.4     729.0     178.0   1896.00
      1.53      3.68      8.23      4.54      .070      .055      .070      .000   1894.40   9976.03
   .018646      370.      384.      385.         3        15         0       .00     55.97  10032.00


FLOW DISTRIBUTION FOR SECNO=      5.18          CWSEL=   1898.55

STA=    9976.    9978.    9986.   10015.   10032.
  PER Q=       .1      4.8     78.2     17.0
   AREA=       .6     12.5     95.0     37.4
    VEL=      1.2      3.8      8.2      4.5
  DEPTH=       .3      1.6      3.4      2.2

*SECNO -4.950
START TRIB COMP
    -4.950     4.950  1885.214

3470 ENCROACHMENT STATIONS=     9961.0   10040.0  TYPE=      1  TARGET=      79.000
    -4.950      5.71   1885.21       .00   1885.07   1885.82       .61       .00      5.49   1882.00
    1787.0     105.2    1576.7     105.1      34.2     239.7      32.3     729.0     178.0   1882.00
      1.53      3.08      6.58      3.26      .070      .055      .070      .000   1879.50   9961.00
   .007833        0.        0.        0.         0         0         0       .00     79.00  10040.00


FLOW DISTRIBUTION FOR SECNO=     -4.95          CWSEL=   1885.21

STA=    9961.    9976.   10028.   10040.
  PER Q=      5.9     88.2      5.9
   AREA=     34.2    239.7     32.3
    VEL=      3.1      6.6      3.3
  DEPTH=      2.3      4.6      2.7

*SECNO 5.001

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .41
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9950.0   10010.0  TYPE=      1  TARGET=      60.000
     5.001      3.98   1887.68   1887.06   1887.61   1888.32       .63      2.49       .01   1886.00
    1000.0      21.5     973.2       5.3       7.6     150.5       2.4     730.4     178.4   1886.00
      1.54      2.83      6.47      2.23      .070      .055      .070      .000   1883.70   9950.00
   .014423      240.      260.      300.         2        14         0       .00     60.00  10010.00


FLOW DISTRIBUTION FOR SECNO=      5.00          CWSEL=   1887.68

STA=    9950.    9955.   10008.   10010.
  PER Q=      2.1     97.3       .5
   AREA=      7.6    150.5      2.4
    VEL=      2.8      6.5      2.2
  DEPTH=      1.4      2.8      1.4

*SECNO 5.081

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9979.9   10019.8  TYPE=      1  TARGET=      39.899
     5.081      5.24   1895.04   1894.79   1895.09   1896.26      1.21      7.77       .17   1894.00
    1000.0       2.9     997.1        .0       1.4     112.6        .0     731.7     178.9 100000.00
      1.55      2.08      8.86       .00      .070      .055      .000      .000   1889.80   9980.06
   .025385      414.      414.      414.         2        11         0       .00     39.59  10019.65


FLOW DISTRIBUTION FOR SECNO=      5.08          CWSEL=   1895.04

STA=    9980.    9983.   10023.
  PER Q=       .3     99.7
   AREA=      1.4    112.6
    VEL=      2.1      8.9
  DEPTH=       .5      3.1

*SECNO 5.161

3470 ENCROACHMENT STATIONS=     9980.0   10022.0  TYPE=      1  TARGET=      42.000
     5.161      4.46   1902.46   1901.68   1902.27   1903.27       .81      6.97       .04   1900.00
    1000.0       6.3     984.2       9.6       2.9     135.6       3.9     732.9     179.2   1900.00
      1.57      2.18      7.26      2.47      .070      .055      .070      .000   1898.00   9980.00
   .013861      380.      380.      380.         3        19         0       .00     42.00  10022.00
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 5.16 CWSEL= 1902.46

STA=	9980.	9981.	10020.	10022.
PER Q=	.6	98.4	1.0	
AREA=	2.9	135.6	3.9	
VEL=	2.2	7.3	2.5	
DEPTH=	2.4	3.5	2.4	

THIS RUN EXECUTED 09JUN92 09:38:47

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1991
****

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

6-9-92 DESERT HILLS W

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	.220	.00	.00	.00	1734.00	13541.00	1743.20	1741.21	1743.35	22.42	4.65	4634.13	2859.74
	.220	.00	.00	.00	1734.00	13541.00	1743.60	1741.76	1743.89	33.40	5.92	3276.47	2343.07
*	.310	425.00	.00	.00	1736.00	13541.00	1744.47	1743.19	1744.71	46.49	7.07	4623.90	1985.95
*	.310	425.00	.00	.00	1736.00	10259.00	1745.13	1743.14	1745.50	43.48	7.27	2296.29	1555.76
	.400	478.00	.00	.00	1738.00	10465.00	1746.40	1744.73	1746.63	33.70	6.04	3020.97	1802.58
	.400	478.00	.00	.00	1738.00	10259.00	1746.95	1744.68	1747.24	30.88	6.10	2622.95	1846.23
	.480	382.00	.00	.00	1740.00	10453.00	1747.54	1745.52	1747.70	24.23	5.37	3547.57	2123.50
	.480	382.00	.00	.00	1740.00	10259.00	1748.06	1745.38	1748.28	24.79	5.69	2900.10	2060.34
	.560	436.00	.00	.00	1740.00	10264.00	1748.52	1746.77	1748.69	27.64	5.77	3500.23	1952.15
	.560	436.00	.00	.00	1740.00	10259.00	1749.08	1746.90	1749.34	30.01	6.31	2752.02	1872.61
	.640	450.00	.00	.00	1742.00	10259.00	1749.71	1748.39	1749.93	41.06	6.35	3017.21	1600.95
	.640	450.00	.00	.00	1742.00	10259.00	1750.40	1748.62	1750.80	50.09	7.51	2190.75	1449.57
	.720	373.00	.00	.00	1744.00	10259.00	1751.29	1750.19	1751.59	55.41	7.21	2634.01	1378.21
	.720	373.00	.00	.00	1744.00	10259.00	1752.20	1750.37	1752.69	57.93	8.07	1940.50	1347.92
	.810	492.00	.00	.00	1746.00	10259.00	1753.58	1752.24	1753.85	47.78	6.73	2717.21	1484.20
	.810	492.00	.00	.00	1746.00	10259.00	1754.44	1752.31	1754.70	32.54	6.02	2710.66	1798.33
	.900	491.00	.00	.00	1748.00	10259.00	1755.88	1754.42	1756.16	46.39	7.52	2660.53	1506.17
	.900	491.00	.00	.00	1748.00	10259.00	1756.43	1754.76	1756.86	53.07	8.44	2094.89	1408.24
	.990	470.00	.00	.00	1748.00	10259.00	1757.75	1755.96	1757.93	29.77	5.87	3278.33	1880.41
	.990	470.00	.00	.00	1748.00	10259.00	1758.58	1756.06	1758.90	33.89	6.68	2381.18	1762.27
	1.100	553.00	.00	.00	1752.00	9657.00	1759.62	1757.74	1759.91	40.41	6.96	2434.63	1519.11
	1.100	553.00	.00	.00	1752.00	9657.00	1760.39	1757.70	1760.71	32.74	6.70	2234.43	1687.69

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	1.190	491.00	.00	.00	1754.00	9657.00	1761.73	1760.07	1762.10	49.07	7.77	2170.91	1378.52
	1.190	491.00	.00	.00	1754.00	9657.00	1762.22	1760.00	1762.66	45.23	7.79	1934.56	1435.85
	1.290	515.00	.00	.00	1756.00	9560.00	1763.71	1761.54	1764.00	27.45	5.75	2595.40	1824.60
	1.290	515.00	.00	.00	1756.00	9560.00	1764.13	1761.56	1764.47	26.28	5.85	2308.04	1864.95
	1.350	329.00	.00	.00	1756.00	9171.00	1764.67	1762.75	1764.83	25.26	5.39	3216.45	1824.83
	1.350	329.00	.00	.00	1756.00	9171.00	1765.10	1762.93	1765.47	42.03	7.22	2013.69	1414.62
	1.400	265.00	.00	.00	1758.00	9171.00	1765.65	1764.61	1765.90	50.40	6.95	2610.32	1291.88
	1.400	265.00	.00	.00	1758.00	9171.00	1766.45	1764.64	1766.88	53.96	7.79	1894.81	1248.48
	1.480	427.00	.00	.00	1758.00	9171.00	1767.46	1766.02	1767.69	39.34	6.54	2642.95	1462.13
	1.480	427.00	.00	.00	1758.00	9171.00	1768.33	1766.15	1768.60	31.51	6.34	2409.87	1633.87
	1.580	507.00	.00	.00	1762.00	9171.00	1768.98	1767.39	1769.12	32.63	5.05	3317.09	1605.49
	1.580	507.00	.00	.00	1762.00	9171.00	1769.73	1767.78	1769.99	41.23	6.19	2322.00	1428.21
	1.650	398.00	.00	.00	1764.00	9171.00	1770.48	1769.01	1770.69	47.29	5.91	2689.58	1333.58
	1.650	398.00	.00	.00	1764.00	9171.00	1771.32	1769.35	1771.60	42.44	6.17	2248.47	1407.71
	1.720	385.00	.00	.00	1766.00	9171.00	1772.31	1771.15	1772.54	55.75	6.35	2585.30	1228.27
	1.720	385.00	.00	.00	1766.00	9171.00	1773.08	1771.48	1773.43	57.09	7.06	2022.05	1213.75
	1.810	426.00	.00	.00	1768.00	8890.00	1774.31	1773.00	1774.50	45.32	6.31	2675.71	1320.54
	1.810	426.00	.00	.00	1768.00	8890.00	1775.16	1773.41	1775.49	48.47	7.15	2066.57	1276.98
	1.850	260.00	.00	.00	1768.00	8890.00	1775.28	1773.61	1775.42	31.51	4.82	3115.14	1583.78
	1.850	260.00	.00	.00	1768.00	8890.00	1776.21	1773.88	1776.36	25.41	4.82	2872.14	1763.55
*	1.950	500.00	.00	.00	1770.00	4143.00	1776.73	1775.57	1776.81	33.23	4.33	3025.54	718.74
*	1.950	500.00	.00	.00	1770.00	4143.00	1777.33	1775.90	1777.48	34.42	4.83	1457.57	706.16
*	2.000	235.00	.00	.00	1771.90	4143.00	1779.24	1779.24	1779.78	82.19	8.30	1245.34	456.99
*	2.000	235.00	.00	.00	1771.90	4143.00	1779.49	1779.49	1780.15	88.28	8.80	1010.16	440.94
*	2.010	60.00	1778.00	1777.10	1772.10	4143.00	1780.38	1780.38	1781.29	6.08	9.88	2251.37	1679.94
*	2.010	60.00	1778.00	1777.10	1772.10	4143.00	1780.78	1780.69	1782.04	6.89	10.86	1522.02	1577.82
*	2.050	215.00	.00	.00	1774.00	4143.00	1781.89	1778.20	1781.90	2.14	1.55	4671.63	2830.11
*	2.050	215.00	.00	.00	1774.00	4143.00	1782.85	1778.17	1782.87	2.48	1.82	3451.31	2629.52
*	2.150	500.00	.00	.00	1778.00	4143.00	1782.16	1781.17	1782.32	38.58	4.03	1507.13	666.98
*	2.150	500.00	.00	.00	1778.00	4143.00	1783.11	1781.18	1783.23	17.75	3.24	1616.90	983.35
*	2.240	270.00	.00	.00	1780.00	4143.00	1784.22	1783.55	1784.41	79.86	6.01	1342.90	463.61
*	2.240	270.00	.00	.00	1780.00	4143.00	1784.50	1783.93	1784.98	130.81	8.09	803.69	362.23
	2.340	500.00	.00	.00	1782.20	4143.00	1787.22	1786.19	1787.38	48.52	5.27	1392.03	594.77
*	2.340	500.00	.00	.00	1782.20	4143.00	1788.23	1786.60	1788.46	42.65	5.71	1120.91	634.39

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	2.430	490.00	.00	.00	1785.00	4143.00	1790.28	1789.86	1790.63	93.27	7.34	1055.80	428.98
	2.430	490.00	.00	.00	1785.00	4143.00	1790.91	1790.18	1791.35	81.21	7.53	909.21	459.74
	2.530	500.00	.00	.00	1788.00	4143.00	1793.63	1792.52	1793.87	58.33	6.23	1136.44	542.45
	2.530	500.00	.00	.00	1788.00	4143.00	1794.21	1792.91	1794.57	63.68	7.03	921.86	519.19
	2.610	460.00	.00	.00	1790.00	4143.00	1796.56	1795.99	1796.83	67.98	6.72	1236.24	502.50
	2.610	460.00	.00	.00	1790.00	4143.00	1797.15	1796.16	1797.52	62.52	6.96	968.82	523.98
	2.710	500.00	.00	.00	1794.00	4143.00	1799.45	1798.70	1799.63	46.46	5.78	1438.67	607.85
	2.710	500.00	.00	.00	1794.00	4143.00	1800.12	1799.04	1800.49	57.68	7.02	954.84	545.49
	2.790	400.00	.00	.00	1794.00	4143.00	1801.58	1800.92	1801.98	72.98	7.90	1027.10	484.97
	2.790	400.00	.00	.00	1794.00	4143.00	1802.39	1801.06	1802.90	62.17	7.97	826.38	525.42
	2.870	450.00	.00	.00	1798.00	4143.00	1804.40	1803.38	1804.62	48.47	5.12	1258.28	595.09
	2.870	450.00	.00	.00	1798.00	4143.00	1804.90	1803.39	1805.14	38.69	4.95	1168.24	666.09
*	2.960	400.00	.00	.00	1802.00	4143.00	1807.14	1806.83	1807.37	101.12	7.63	1300.68	411.99
*	2.960	400.00	.00	.00	1802.00	4143.00	1807.58	1807.12	1808.12	142.03	9.66	789.57	347.63
*	3.040	400.00	.00	.00	1806.00	4143.00	1809.92	1809.10	1810.05	50.91	4.50	1590.36	580.66
*	3.040	400.00	.00	.00	1806.00	4143.00	1810.93	1809.70	1811.16	46.75	5.20	1176.77	605.93
*	3.130	440.00	.00	.00	1808.00	3669.00	1812.76	1812.28	1813.08	89.57	6.99	966.69	387.68
	3.130	440.00	.00	.00	1808.00	3669.00	1813.40	1812.50	1813.77	71.22	6.88	839.35	434.74
	3.200	345.00	.00	.00	1810.00	3669.00	1815.30	1814.16	1815.56	57.21	6.03	972.01	485.08
	3.200	345.00	.00	.00	1810.00	3669.00	1815.74	1814.25	1816.13	64.92	6.84	782.51	455.37
	3.260	325.00	.00	.00	1812.00	3669.00	1817.81	1817.30	1818.40	111.88	9.06	699.95	346.87
	3.260	325.00	.00	.00	1812.00	3669.00	1818.29	1817.45	1818.94	96.52	8.95	634.16	373.46
*	3.310	235.00	.00	.00	1814.00	3669.00	1820.11	1819.04	1820.41	55.51	6.75	957.32	492.47
	3.310	235.00	.00	.00	1814.00	3669.00	1820.47	1819.25	1821.08	78.42	8.38	656.99	414.33
	3.400	480.00	.00	.00	1817.00	3669.00	1822.99	1822.18	1823.43	62.42	6.11	847.82	464.40
	3.400	480.00	.00	.00	1817.00	3669.00	1823.70	1822.11	1824.27	54.90	6.36	645.84	495.20
	3.490	450.00	.00	.00	1822.00	3669.00	1825.85	1824.76	1826.12	54.00	5.28	1013.76	499.30
	3.490	450.00	.00	.00	1822.00	3669.00	1826.43	1824.82	1826.88	59.30	6.08	717.49	476.47
	3.590	510.00	.00	.00	1824.00	3669.00	1829.12	1828.67	1829.66	83.53	7.57	794.49	401.45
	3.590	510.00	.00	.00	1824.00	3669.00	1829.82	1828.73	1830.58	80.17	8.14	592.59	409.78
	3.670	400.00	.00	.00	1826.00	3669.00	1832.46	1831.73	1833.00	84.03	6.77	739.70	400.25
	3.670	400.00	.00	.00	1826.00	3669.00	1832.97	1831.76	1833.41	55.76	5.99	760.79	491.32
	3.690	110.00	.00	.00	1827.00	3669.00	1833.38	1832.81	1834.02	86.66	8.00	697.51	394.13
	3.690	110.00	.00	.00	1827.00	3669.00	1833.66	1832.93	1834.35	80.46	8.00	653.61	409.04

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	3.730	270.00	.00	.00	1828.00	3669.00	1835.43	1834.35	1835.73	38.41	5.61	1041.85	592.02
	3.730	270.00	.00	.00	1828.00	3669.00	1835.66	1834.54	1836.20	52.93	6.77	725.47	504.31
*	3.810	350.00	.00	.00	1832.00	2692.00	1836.97	1836.19	1837.32	54.06	5.80	691.37	366.15
	3.810	350.00	.00	.00	1832.00	2692.00	1837.59	1836.05	1837.92	38.18	5.33	664.19	435.67
	3.870	480.00	.00	.00	1834.00	2692.00	1839.33	1838.40	1839.61	40.52	5.23	802.12	422.92
	3.870	480.00	.00	.00	1834.00	2692.00	1839.71	1838.19	1840.21	52.15	6.26	520.58	372.77
	3.960	500.00	.00	.00	1836.00	2692.00	1841.72	1840.75	1841.93	53.89	4.60	804.77	366.70
	3.960	500.00	.00	.00	1836.00	2692.00	1842.25	1840.75	1842.42	32.91	4.20	874.85	469.23
*	4.030	330.00	.00	.00	1838.00	2692.00	1844.40	1844.33	1845.25	140.56	9.53	469.05	227.06
*	4.030	330.00	.00	.00	1838.00	2692.00	1845.02	1845.02	1846.50	162.95	11.17	331.39	210.88
*	4.140	570.00	.00	.00	1842.00	2692.00	1848.17	1846.42	1848.28	22.99	3.31	1013.92	561.42
*	4.140	570.00	.00	.00	1842.00	2692.00	1848.95	1846.39	1849.03	12.27	2.75	1215.31	768.66
*	4.230	492.00	.00	.00	1846.40	1787.00	1851.59	1851.59	1852.47	197.87	8.70	278.68	127.04
*	4.230	492.00	.00	.00	1846.40	1787.00	1851.67	1851.67	1852.64	202.45	8.94	257.20	125.59
*	4.280	290.00	.00	.00	1848.00	1787.00	1854.72	1853.48	1855.23	57.97	6.14	358.26	234.70
*	4.280	290.00	.00	.00	1848.00	1787.00	1854.84	1853.46	1855.35	54.76	6.07	346.38	241.49
	4.370	380.00	.00	.00	1854.00	1787.00	1857.66	1857.23	1858.19	109.21	6.25	353.67	171.00
*	4.370	380.00	.00	.00	1854.00	1787.00	1857.72	1857.25	1858.35	119.34	6.61	314.24	163.58
	4.390	540.00	.00	.00	1853.00	1787.00	1860.96	1858.75	1861.24	36.87	5.06	589.12	294.30
*	4.390	540.00	.00	.00	1853.00	1787.00	1861.46	1858.75	1861.90	42.76	5.75	466.61	273.27
*	4.410	77.00	1860.50	1858.00	1854.00	1787.00	1862.19	1862.15	1862.66	89.36	7.14	553.77	189.04
*	4.410	77.00	1860.50	1858.00	1854.00	1787.00	1862.26	1862.26	1863.02	121.22	8.36	359.02	162.31
*	4.480	155.00	.00	.00	1856.00	1787.00	1862.86	1859.32	1862.90	5.16	1.89	1234.96	786.52
*	4.480	155.00	.00	.00	1856.00	1787.00	1863.33	1859.49	1863.41	8.76	2.56	798.71	603.80
*	4.530	420.00	.00	.00	1859.30	1787.00	1863.64	1863.64	1864.45	220.21	8.07	320.98	120.42
*	4.530	420.00	.00	.00	1859.30	1787.00	1863.79	1863.60	1864.62	199.87	7.96	275.22	126.40
*	4.590	280.00	.00	.00	1861.70	1787.00	1866.81	1865.96	1867.02	46.44	4.70	605.34	262.23
*	4.590	280.00	.00	.00	1861.70	1787.00	1867.36	1865.93	1867.92	74.34	6.46	322.01	207.26
*	4.680	435.00	.00	.00	1867.00	1787.00	1870.16	1870.03	1870.91	207.74	7.47	286.39	123.98
	4.680	435.00	.00	.00	1867.00	1787.00	1871.03	1869.95	1871.58	96.34	6.15	309.68	182.06
*	4.750	390.00	.00	.00	1870.10	1787.00	1874.46	1873.29	1874.74	55.84	4.57	473.38	239.15
	4.750	390.00	.00	.00	1870.10	1787.00	1874.52	1873.24	1874.97	78.06	5.38	333.03	202.25
	4.810	318.00	.00	.00	1873.50	1787.00	1876.87	1876.02	1877.26	104.89	5.91	382.35	174.49
	4.810	318.00	.00	.00	1873.50	1787.00	1877.39	1876.23	1877.87	97.82	6.32	339.40	180.68

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	4.880	365.00	.00	.00	1876.00	1787.00	1880.91	1880.43	1881.73	136.10	7.81	276.58	153.18
	4.880	365.00	.00	.00	1876.00	1787.00	1881.17	1880.32	1882.05	128.11	7.90	251.52	157.88
	4.950	380.00	.00	.00	1879.50	1787.00	1885.07	1884.04	1885.65	80.21	6.52	327.72	199.54
	4.950	380.00	.00	.00	1879.50	1787.00	1885.21	1883.95	1885.82	77.93	6.56	307.72	202.42
*	5.020	340.00	.00	.00	1883.50	1000.00	1888.16	1887.61	1888.89	129.03	7.25	169.32	88.04
*	5.020	340.00	.00	.00	1883.50	1000.00	1888.21	1887.66	1888.90	119.59	7.06	172.27	91.44
	5.110	438.00	.00	.00	1888.70	1000.00	1893.33	1892.61	1893.88	100.61	6.78	193.77	99.70
	5.110	438.00	.00	.00	1888.70	1000.00	1893.33	1892.65	1893.95	111.16	7.13	178.61	94.85
	5.180	384.00	.00	.00	1894.40	1000.00	1898.37	1898.28	1899.18	196.57	8.14	163.62	71.32
	5.180	384.00	.00	.00	1894.40	1000.00	1898.55	1898.21	1899.44	186.46	8.23	145.56	73.23
	-4.950	.00	.00	.00	1879.50	1787.00	1885.07	.00	1885.65	80.22	6.52	327.70	199.51
	-4.950	.00	.00	.00	1879.50	1787.00	1885.21	.00	1885.82	78.33	6.58	306.21	201.91
*	5.001	260.00	.00	.00	1883.70	1000.00	1887.61	1887.09	1888.25	152.90	6.54	164.64	80.87
*	5.001	260.00	.00	.00	1883.70	1000.00	1887.68	1887.06	1888.32	144.23	6.47	160.49	83.27
	5.081	414.00	.00	.00	1889.80	1000.00	1895.09	1894.78	1896.26	241.41	8.71	116.05	64.36
	5.081	414.00	.00	.00	1889.80	1000.00	1895.04	1894.79	1896.26	253.85	8.86	113.98	62.76
	5.161	380.00	.00	.00	1898.00	1000.00	1902.27	1901.72	1902.90	130.37	6.77	175.77	87.58
	5.161	380.00	.00	.00	1898.00	1000.00	1902.46	1901.68	1903.27	138.61	7.26	142.39	84.94

-92 DESERT HILLS W

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	.220	13541.00	1743.20	.00	.00	.00	1504.50	.00
	.220	13541.00	1743.60	.40	.00	.40	840.00	.00
*	.310	13541.00	1744.47	.00	1.27	.00	1706.80	425.00
*	.310	10259.00	1745.13	.66	1.53	.66	488.00	425.00
	.400	10465.00	1746.40	.00	1.92	.00	956.38	478.00
	.400	10259.00	1746.95	.56	1.82	.56	540.00	478.00
	.480	10453.00	1747.54	.00	1.14	.00	1018.48	382.00
	.480	10259.00	1748.06	.52	1.10	.52	556.00	382.00
	.560	10264.00	1748.52	.00	.98	.00	1211.85	436.00
	.560	10259.00	1749.08	.56	1.02	.56	571.00	436.00
	.640	10259.00	1749.71	.00	1.18	.00	1056.99	450.00
	.640	10259.00	1750.40	.69	1.31	.69	480.00	450.00
	.720	10259.00	1751.29	.00	1.59	.00	1006.81	373.00
	.720	10259.00	1752.20	.91	1.81	.91	385.00	373.00
	.810	10259.00	1753.58	.00	2.29	.00	910.11	492.00
	.810	10259.00	1754.44	.86	2.24	.86	600.00	492.00
	.900	10259.00	1755.88	.00	2.29	.00	855.55	491.00
	.900	10259.00	1756.43	.55	1.98	.55	450.00	491.00
	.990	10259.00	1757.75	.00	1.87	.00	1035.92	470.00
	.990	10259.00	1758.58	.83	2.15	.83	425.00	470.00
	1.100	9657.00	1759.62	.00	1.87	.00	706.81	553.00
	1.100	9657.00	1760.39	.77	1.81	.77	394.00	553.00
	1.190	9657.00	1761.73	.00	2.11	.00	651.71	491.00
	1.190	9657.00	1762.22	.49	1.83	.49	370.00	491.00
	1.290	9560.00	1763.71	.00	1.98	.00	743.13	515.00
	1.290	9560.00	1764.13	.43	1.92	.43	430.00	515.00
	1.350	9171.00	1764.67	.00	.97	.00	1047.20	329.00
	1.350	9171.00	1765.10	.42	.97	.42	400.00	329.00
	1.400	9171.00	1765.65	.00	.97	.00	1033.80	265.00
	1.400	9171.00	1766.45	.81	1.36	.81	410.00	265.00
	1.480	9171.00	1767.46	.00	1.81	.00	879.36	427.00
	1.480	9171.00	1768.33	.87	1.88	.87	499.00	427.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1.580	9171.00	1768.98	.00	1.52	.00	1279.03	507.00
	1.580	9171.00	1769.73	.74	1.40	.74	550.00	507.00
	1.650	9171.00	1770.48	.00	1.50	.00	1033.85	398.00
	1.650	9171.00	1771.32	.84	1.59	.84	520.00	398.00
	1.720	9171.00	1772.31	.00	1.84	.00	981.10	385.00
	1.720	9171.00	1773.08	.77	1.76	.77	500.00	385.00
	1.810	8890.00	1774.31	.00	1.99	.00	1028.08	426.00
	1.810	8890.00	1775.16	.85	2.08	.85	522.00	426.00
	1.850	8890.00	1775.28	.00	.97	.00	1074.97	260.00
	1.850	8890.00	1776.21	.93	1.04	.93	700.00	260.00
*	1.950	4143.00	1776.73	.00	1.45	.00	1573.79	500.00
*	1.950	4143.00	1777.33	.61	1.13	.61	500.00	500.00
*	2.000	4143.00	1779.24	.00	2.52	.00	1042.20	235.00
*	2.000	4143.00	1779.49	.25	2.16	.25	600.00	235.00
*	2.010	4143.00	1780.38	.00	1.14	.00	1289.97	60.00
*	2.010	4143.00	1780.78	.40	1.29	.40	600.00	60.00
*	2.050	4143.00	1781.89	.00	1.51	.00	1289.54	215.00
*	2.050	4143.00	1782.85	.96	2.07	.96	570.00	215.00
	2.150	4143.00	1782.16	.00	.27	.00	819.84	500.00
*	2.150	4143.00	1783.11	.95	.26	.95	465.00	500.00
*	2.240	4143.00	1784.22	.00	2.06	.00	871.42	270.00
*	2.240	4143.00	1784.50	.28	1.39	.28	309.90	270.00
	2.340	4143.00	1787.22	.00	3.00	.00	629.17	500.00
*	2.340	4143.00	1788.23	1.00	3.73	1.00	300.40	500.00
	2.430	4143.00	1790.28	.00	3.05	.00	533.39	490.00
	2.430	4143.00	1790.91	.64	2.69	.64	325.29	490.00
	2.530	4143.00	1793.63	.00	3.35	.00	434.00	500.00
	2.530	4143.00	1794.21	.58	3.29	.58	249.80	500.00
	2.610	4143.00	1796.56	.00	2.93	.00	673.38	460.00
	2.610	4143.00	1797.15	.59	2.94	.59	309.00	460.00
	2.710	4143.00	1799.45	.00	2.89	.00	747.84	500.00
	2.710	4143.00	1800.12	.67	2.97	.67	279.90	500.00
	2.790	4143.00	1801.58	.00	2.13	.00	475.27	400.00
	2.790	4143.00	1802.39	.81	2.27	.81	200.50	400.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	2.870	4143.00	1804.40	.00	2.82	.00	612.77	450.00
	2.870	4143.00	1804.90	.50	2.51	.50	353.00	450.00
*	2.960	4143.00	1807.14	.00	2.74	.00	969.52	400.00
*	2.960	4143.00	1807.58	.44	2.68	.44	329.00	400.00
*	3.040	4143.00	1809.92	.00	2.77	.00	902.39	400.00
*	3.040	4143.00	1810.93	1.01	3.35	1.01	387.70	400.00
*	3.130	3669.00	1812.76	.00	2.84	.00	563.08	440.00
	3.130	3669.00	1813.40	.63	2.46	.63	276.60	440.00
	3.200	3669.00	1815.30	.00	2.54	.00	365.35	345.00
	3.200	3669.00	1815.74	.45	2.35	.45	203.60	345.00
	3.260	3669.00	1817.81	.00	2.51	.00	286.48	325.00
	3.260	3669.00	1818.29	.48	2.55	.48	170.80	325.00
*	3.310	3669.00	1820.11	.00	2.29	.00	380.94	235.00
	3.310	3669.00	1820.47	.37	2.18	.37	159.40	235.00
	3.400	3669.00	1822.99	.00	2.88	.00	442.56	480.00
	3.400	3669.00	1823.70	.71	3.22	.71	149.10	480.00
	3.490	3669.00	1825.85	.00	2.87	.00	462.41	450.00
	3.490	3669.00	1826.43	.58	2.73	.58	179.96	450.00
	3.590	3669.00	1829.12	.00	3.27	.00	358.82	510.00
	3.590	3669.00	1829.82	.70	3.39	.70	142.40	510.00
	3.670	3669.00	1832.46	.00	3.34	.00	409.46	400.00
	3.670	3669.00	1832.97	.51	3.15	.51	215.00	400.00
	3.690	3669.00	1833.38	.00	.91	.00	266.34	110.00
	3.690	3669.00	1833.66	.29	.69	.29	200.00	110.00
*	3.730	3669.00	1835.43	.00	2.05	.00	392.85	270.00
	3.730	3669.00	1835.66	.24	2.00	.24	190.20	270.00
*	3.810	2692.00	1836.97	.00	1.54	.00	296.53	350.00
	3.810	2692.00	1837.59	.63	1.93	.63	179.20	350.00
	3.870	2692.00	1839.33	.00	2.36	.00	353.83	480.00
	3.870	2692.00	1839.71	.38	2.11	.38	125.90	480.00
	3.960	2692.00	1841.72	.00	2.39	.00	359.97	500.00
	3.960	2692.00	1842.25	.53	2.54	.53	290.90	500.00
*	4.030	2692.00	1844.40	.00	2.67	.00	244.71	330.00
*	4.030	2692.00	1845.02	.63	2.78	.63	111.50	330.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	4.140	2692.00	1848.17	.00	3.77	.00	346.53	570.00
*	4.140	2692.00	1848.95	.78	3.93	.78	317.30	570.00
*	4.230	1787.00	1851.59	.00	3.43	.00	147.00	492.00
*	4.230	1787.00	1851.67	.07	2.72	.07	115.40	492.00
*	4.280	1787.00	1854.72	.00	3.13	.00	136.68	290.00
*	4.280	1787.00	1854.84	.12	3.17	.12	100.00	290.00
	4.370	1787.00	1857.66	.00	2.95	.00	200.55	380.00
*	4.370	1787.00	1857.72	.06	2.88	.06	161.93	380.00
*	4.390	1787.00	1860.96	.00	3.30	.00	405.63	540.00
*	4.390	1787.00	1861.46	.50	3.74	.50	240.50	540.00
*	4.410	1787.00	1862.19	.00	1.23	.00	501.61	77.00
*	4.410	1787.00	1862.26	.07	.79	.07	190.00	77.00
*	4.480	1787.00	1862.86	.00	.67	.00	321.32	155.00
*	4.480	1787.00	1863.33	.47	1.07	.47	140.00	155.00
*	4.530	1787.00	1863.64	.00	.79	.00	243.19	420.00
*	4.530	1787.00	1863.79	.15	.47	.15	127.00	420.00
*	4.590	1787.00	1866.81	.00	3.17	.00	291.64	280.00
*	4.590	1787.00	1867.36	.54	3.56	.54	79.00	280.00
	4.680	1787.00	1870.16	.00	3.34	.00	151.50	435.00
	4.680	1787.00	1871.03	.87	3.67	.87	91.00	435.00
*	4.750	1787.00	1874.46	.00	4.30	.00	211.22	390.00
	4.750	1787.00	1874.52	.06	3.49	.06	96.00	390.00
	4.810	1787.00	1876.87	.00	2.41	.00	153.44	318.00
	4.810	1787.00	1877.39	.51	2.87	.51	100.00	318.00
	4.880	1787.00	1880.91	.00	4.04	.00	105.16	365.00
	4.880	1787.00	1881.17	.26	3.78	.26	67.00	365.00
	4.950	1787.00	1885.07	.00	4.16	.00	114.38	380.00
	4.950	1787.00	1885.21	.14	4.04	.14	80.00	380.00
*	5.020	1000.00	1888.16	.00	3.09	.00	76.36	340.00
*	5.020	1000.00	1888.21	.05	3.00	.05	70.90	340.00
	5.110	1000.00	1893.33	.00	5.17	.00	79.72	438.00
	5.110	1000.00	1893.33	.00	5.11	.00	63.00	438.00
	5.180	1000.00	1898.37	.00	5.04	.00	85.74	384.00
	5.180	1000.00	1898.55	.18	5.22	.18	55.97	384.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	-4.950	1787.00	1885.07	.00	-13.30	.00	114.37	.00
	-4.950	1787.00	1885.21	.14	-13.34	.14	79.00	.00
*	5.001	1000.00	1887.61	.00	2.54	.00	75.34	260.00
*	5.001	1000.00	1887.68	.08	2.47	.08	60.00	260.00
	5.081	1000.00	1895.09	.00	7.48	.00	39.93	414.00
	5.081	1000.00	1895.04	-.04	7.36	-.04	39.59	414.00
	5.161	1000.00	1902.27	.00	7.18	.00	80.42	380.00
	5.161	1000.00	1902.46	.20	7.42	.20	42.00	380.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=      .310  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .310  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.950  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.950  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     2.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     2.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     2.010  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.010  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     2.010  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     2.010  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     2.010  PROFILE=  2  WSEL ASSUMED BASED ON MIN DIFF
CAUTION SECNO=     2.010  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     2.050  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.050  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.150  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.150  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.240  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.240  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.340  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     2.960  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     2.960  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.040  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     3.040  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.130  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.310  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.730  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     3.810  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.030  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     4.030  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.030  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     4.140  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.140  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     4.230  PROFILE=  1  CRITICAL DEPTH ASSUMED
```

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[illegible]ION SECNO=     4.230  PROFILE=  1  MINIMUM SPECIFIC ENERGY
[illegible]ION SECNO=     4.230  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.230  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     4.280  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.280  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.370  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.390  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.390  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     4.410  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     4.410  PROFILE=  1  WSEL ASSUMED BASED ON MIN DIFF
CAUTION SECNO=     4.410  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     4.410  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.410  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     4.410  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     4.480  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.480  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     4.530  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     4.530  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     4.530  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.590  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     4.590  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

[illegible]ING SECNO=     4.680  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     4.750  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.020  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.020  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     5.001  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     5.001  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

dway width summary: 6-9-92 DESERT HILLS W
ile No. 2

Section Number	Elevation Increase	Top Width	Left Encroach Station	Left Sta Distance From Center	Center Station	Right Sta Distance From Center	Right Encroach Station
.220	.40	840.00	9350.00	87.50	9437.50	752.50	10190.00
.310	.66	488.00	9750.00	251.35	10001.35	236.65	10238.00
.400	.56	540.00	9580.00	414.19	9994.19	125.81	10120.00
.480	.52	556.00	9758.00	238.50	9996.50	317.50	10314.00
.560	.56	571.00	9513.00	490.18	10003.18	80.82	10084.00
.640	.69	480.00	9750.00	247.91	9997.91	232.09	10230.00
.720	.91	385.00	9950.00	51.60	10001.61	333.39	10335.00
.810	.86	600.00	9750.00	250.81	10000.80	349.20	10350.00
.900	.55	450.00	9750.00	257.06	10007.06	192.94	10200.00
.990	.83	425.00	9750.00	250.46	10000.46	174.54	10175.00
1.100	.77	394.00	9780.00	221.50	10001.50	172.50	10174.00
1.190	.49	370.00	9850.00	151.18	10001.18	218.82	10220.00
1.290	.43	430.00	9770.00	240.00	10010.00	190.00	10200.00
1.350	.42	400.00	9800.00	199.78	9999.78	200.22	10200.00
1.400	.81	410.00	9840.00	161.73	10001.73	248.27	10250.00
1.480	.87	499.00	9841.00	161.73	10002.73	337.27	10340.00
1.580	.74	550.00	9600.00	398.17	9998.17	151.83	10150.00
1.650	.84	520.00	9580.00	418.71	9998.71	101.29	10100.00
1.720	.77	500.00	9650.00	354.15	10004.14	145.86	10150.00
1.810	.85	522.00	9728.00	274.26	10002.26	247.74	10250.00
1.850	.93	700.00	9700.00	299.41	9999.41	400.59	10400.00
1.950	.61	500.00	9760.00	243.90	10003.90	256.10	10260.00
2.000	.25	600.00	9800.00	196.00	9996.00	404.00	10400.00
2.010	.40	600.00	9800.00	200.50	10000.50	399.50	10400.00
2.050	.96	570.00	9800.00	197.12	9997.12	372.88	10370.00
2.150	.95	465.00	9835.00	94.90	9929.89	370.11	10300.00
2.240	.28	309.90	9850.70	150.30	10001.00	159.60	10160.60
2.340	1.00	300.40	9850.40	149.60	10000.00	150.80	10150.80
2.430	.64	330.00	9700.00	302.50	10002.50	27.50	10030.00
2.530	.58	249.80	9970.90	29.10	10000.00	220.70	10220.70
2.610	.59	309.00	9933.00	70.33	10003.33	238.67	10242.00
2.710	.67	279.90	9900.60	98.18	9998.78	181.72	10180.50
2.790	.81	200.50	9900.00	98.23	9998.22	102.28	10100.50
2.870	.50	353.00	9947.00	77.96	10024.96	275.04	10300.00
2.960	.44	329.00	9951.00	47.34	9998.34	281.66	10280.00
3.040	1.01	387.70	9932.30	56.46	9988.76	331.24	10320.00
3.130	.63	276.60	9925.80	75.84	10001.64	200.76	10202.40
3.200	.45	203.60	9835.00	165.00	10000.00	38.60	10038.60
3.260	.48	170.80	9900.00	98.50	9998.50	72.30	10070.80
3.310	.37	159.40	9900.60	101.23	10001.83	58.17	10060.00
3.400	.71	149.10	9950.90	65.10	10016.00	84.00	10100.00
3.490	.58	200.70	9900.00	68.89	9968.89	131.81	10100.70
3.590	.70	142.40	9958.00	42.56	10000.56	99.84	10100.40
3.670	.51	215.00	9850.00	162.50	10012.50	52.50	10065.00
3.690	.29	200.00	9850.00	146.00	9996.00	54.00	10050.00
3.730	.24	190.20	9850.60	157.29	10007.88	32.92	10040.80
3.810	.63	179.20	9870.80	138.70	10009.50	40.50	10050.00

3.870	.38	125.90	9925.00	89.84	10014.84	36.06	10050.90
3.960	.53	290.90	9990.00	26.50	10016.50	264.40	10280.90
4.030	.63	111.50	9950.50	45.50	9996.00	66.00	10062.00
4.140	.78	317.30	9983.30	12.54	9995.84	304.76	10300.60
4.230	.07	115.40	9900.60	88.31	9988.91	27.09	10016.00
4.280	.12	100.00	9960.00	42.50	10002.50	57.50	10060.00
4.370	.06	283.00	9967.00	50.50	10017.50	232.50	10250.00
4.390	.50	240.50	9960.00	40.00	10000.00	200.50	10200.50
4.410	.07	190.00	9950.00	50.50	10000.50	139.50	10140.00
4.480	.47	140.00	9900.00	105.00	10005.00	35.00	10040.00
4.530	.15	127.00	9973.00	41.50	10014.50	85.50	10100.00
4.590	.54	79.00	9961.00	34.04	9995.04	44.96	10040.00
4.680	.87	91.00	9969.00	47.71	10016.71	43.29	10060.00
4.750	.06	96.00	9954.00	48.35	10002.35	47.65	10050.00
4.810	.51	100.00	9975.00	26.14	10001.14	73.86	10075.00
4.880	.26	67.00	9980.00	29.08	10009.08	37.92	10047.00
4.950	.14	80.00	9960.00	41.98	10001.98	38.02	10040.00
5.020	.05	70.90	9949.00	46.59	9995.59	24.31	10019.90
5.110	.00	63.00	9952.00	48.68	10000.68	14.32	10015.00
5.180	.18	56.00	9976.00	24.55	10000.55	31.45	10032.00
-4.950	.14	79.00	9961.00	40.98	10001.98	38.02	10040.00
5.001	.08	60.00	9950.00	31.82	9981.82	28.18	10010.00
5.081	-.04	39.90	9979.90	23.10	10003.00	16.79	10019.80
5.161	.20	42.00	9980.00	20.79	10000.79	21.21	10022.00

FLOODWAY DATA, 6-9-92 DESERT HILLS W
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.220	840.	3276.	4.1	1743.6	1743.2	.4
.310	488.	2296.	4.5	1745.2	1744.5	.7
.400	540.	2623.	3.9	1747.0	1746.4	.6
.480	556.	2900.	3.5	1748.0	1747.5	.5
.560	571.	2752.	3.7	1749.1	1748.5	.6
.640	480.	2191.	4.7	1750.4	1749.7	.7
.720	385.	1940.	5.3	1752.2	1751.3	.9
.810	600.	2711.	3.8	1754.5	1753.6	.9
.900	450.	2095.	4.9	1756.5	1755.9	.6
.990	425.	2381.	4.3	1758.5	1757.7	.8
1.100	394.	2234.	4.3	1760.4	1759.6	.8
1.190	370.	1935.	5.0	1762.2	1761.7	.5
1.290	430.	2308.	4.1	1764.1	1763.7	.4
1.350	400.	2014.	4.6	1765.1	1764.7	.4
1.400	410.	1895.	4.8	1766.4	1765.6	.8
1.480	499.	2410.	3.8	1768.4	1767.5	.9
1.580	550.	2322.	3.9	1769.7	1769.0	.7
1.650	520.	2248.	4.1	1771.3	1770.5	.8
1.720	500.	2022.	4.5	1773.1	1772.3	.8
1.810	522.	2067.	4.3	1775.2	1774.3	.9
1.850	700.	2872.	3.1	1776.2	1775.3	.9
1.950	500.	1458.	2.8	1777.3	1776.7	.6
2.000	600.	1010.	4.1	1779.4	1779.2	.2
2.010	600.	1522.	2.7	1780.8	1780.4	.4
2.050	570.	3451.	1.2	1782.9	1781.9	1.0
2.150	465.	1617.	2.6	1783.1	1782.2	.9
2.240	310.	804.	5.2	1784.5	1784.2	.3
2.340	300.	1121.	3.7	1788.2	1787.2	1.0
2.430	325.	909.	4.6	1790.9	1790.3	.6
2.530	250.	922.	4.5	1794.2	1793.6	.6
2.610	309.	969.	4.3	1797.2	1796.6	.6
2.710	280.	955.	4.3	1800.1	1799.4	.7
2.790	200.	826.	5.0	1802.4	1801.6	.8
2.870	353.	1168.	3.5	1804.9	1804.4	.5
2.960	329.	790.	5.2	1807.5	1807.1	.4
3.040	388.	1177.	3.5	1810.9	1809.9	1.0
3.130	277.	839.	4.4	1813.4	1812.8	.6
3.200	204.	783.	4.7	1815.7	1815.3	.4
3.260	171.	634.	5.8	1818.3	1817.8	.5
3.310	159.	657.	5.6	1820.5	1820.1	.4
3.400	149.	646.	5.7	1823.7	1823.0	.7
3.490	180.	717.	5.1	1826.5	1825.9	.6

FLOODWAY DATA, 6-9-92 DESERT HILLS W
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
3.590	142.	593.	6.2	1829.8	1829.1	.7
3.670	215.	761.	4.8	1833.0	1832.5	.5
3.690	200.	654.	5.6	1833.7	1833.4	.3
3.730	190.	725.	5.1	1835.6	1835.4	.2
3.810	179.	664.	4.1	1837.6	1837.0	.6
3.870	126.	521.	5.2	1839.7	1839.3	.4
3.960	291.	875.	3.1	1842.2	1841.7	.5
4.030	111.	331.	8.1	1845.0	1844.4	.6
4.140	317.	1215.	2.2	1849.0	1848.2	.8
4.230	115.	257.	6.9	1851.7	1851.6	.1
4.280	100.	346.	5.2	1854.8	1854.7	.1
4.370	162.	314.	5.7	1857.8	1857.7	.1
4.390	240.	467.	3.8	1861.5	1861.0	.5
4.410	190.	359.	5.0	1862.3	1862.2	.1
4.480	140.	799.	2.2	1863.4	1862.9	.5
4.530	127.	275.	6.5	1863.7	1863.6	.1
4.590	79.	322.	5.5	1867.3	1866.8	.5
4.680	91.	310.	5.8	1871.1	1870.2	.9
4.750	96.	333.	5.4	1874.6	1874.5	.1
4.810	100.	339.	5.3	1877.4	1876.9	.5
4.880	67.	252.	7.1	1881.2	1880.9	.3
4.950	80.	308.	5.8	1885.2	1885.1	.1
5.020	71.	172.	5.8	1888.3	1888.2	.1
5.110	63.	179.	5.6	1893.3	1893.3	.0
5.180	56.	146.	6.9	1898.6	1898.4	.2
-4.950	79.	306.	5.8	1885.2	1885.1	.1
5.001	60.	160.	6.2	1887.7	1887.6	.1
5.081	40.	114.	8.8	1895.1	1895.1	.0
5.161	42.	142.	7.0	1902.5	1902.3	.2

DESERT HILLS WASH - WEST BRANCH

THIS RUN EXECUTED 15JUL92 08:55:18

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.0;  February 1991
************************************


THIS IS AN ARCHIVAL RUN ALL DATA AND RESULTS ARE SAVED ON UNIT   96

AC
AC AERIAL MAPPING:  KENNEY AERIAL MAPPING CO. -- DATE  JULY-NOV. 1990
AC                  1130 W. FILLMORE PHX. AZ. 85007
AC                  PHONE (602) 258-6471   ELLIS HYDE
AC
AC SURVEY CONTROL:  McCUEN GPS INC. -- DATE  JUNE 1990
AC                  8948 W. CALLE LEJOS PEORIA AZ.
AC                  PHONE (602) 995-8445   GLEN McCUEN R.L.S.
AC
AC HYDROLOGY & FIS: JERRY R. JONES & ASSOC. -- DATE FEB 89-JUNE 91
AC                  2929 E. CAMELBACK ROAD
AC                  PHX. AZ. 85016
AC                  PHONE (602) 956-9850   ROGER BAELE P.E.
AC
AC                  FILE:  DSRTWST.DAT
AC
                    DESERT HILLS WASH-WEST BRANCH

T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME DSRTWST.DAT      JJA NO. 290-018 (EXISTING RUN)
T3 REV.   6-9-92  WEST BRANCH DESERT HILLS WASH -- 100 YEAR FLOW

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        5        0        0        0        0        0      4772    1781.0     0

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0       -1        0        0        0       -1        0        0        15


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    115       150       200

NC                                   0.6       0.9
QT       1      1023                          4772
NH       5      .065      9991      .050      10010      .065      10241      .050      10654      .065
NH   11070
ET                3.1    9950.4     10250
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     0.05      14      9991     10010      100      150      300
     1782    9700      1780      9775     1778     9830     1776     9991    1774.5    10000
GR   1776   10010      1778     10101   1778.2    10189     1778    10241      1776    10475
GR   1775   10480      1778     10654     1780    10907   1781.8    11070
     ****************************************************************
     CONFLUENCE WITH JONATHAN WASH STARTS AT CULVERT AND CAREFREE HWY
     CROSS SECTION 0.14 CORRESPONDS WITH 0.38 OF JONATHAN WASH
     ****************************************************************

NH      5     .065      9997       .06    10003     .065    10375      .05    10988     .065
NH  11260
ET            3.1      9900     10100
X1   0.14      27      9997     10003      510      400      490
GR 1783.3    9612      1782      9790     1780     9899     1780     9915      1780     9945
GR  1780    9973      1780      9991     1778     9997   1777.3    10000      1778    10003
GR  1780   10017      1780     10022   1778.6    10033     1780    10043    1780.1    10223
GR  1780   10245      1780     10275   1780.1    10335     1780    10375      1778    10538
GR  1776   10640    1775.8     10645     1776    10655     1778    10860      1780    10988
GR 1780.1  11130      1782     11260

QT      1    1023                        1023
NC   .065    .065       .05        .6       .9
ET            3.1      9950     10050
        ***********************************
        ***  WEST BRANCH DESERT HILLS  ***
        ***********************************
X1   0.23       8      9995     10007      470      470      477
GR 1785.9    9755      1784      9878     1782     9995     1781    10000      1782    10007
     1784   10068      1786     10135   1786.7    10301

ET            3.1   9950.77   10050.6
X1   0.32      10      9997     10002      470      470      470
GR 1788.9    9791      1788      9900     1786     9967     1784     9997    1783.7    10000
GR  1784   10002      1786     10111     1788    10185     1790    10312    1790.1    10383

ET            3.1      9920     10025
X1   0.40      12      9985     10020      450      420      435
GR 1792.2    9650      1792      9725     1790     9800     1788     9875      1787     9905
GR  1788    9925      1788      9985     1787    10000     1788    10020      1790    10065
GR  1792   10245    1792.3     10300

ET            3.1      9880     10045
X1   0.50       8      9900     10045      485      485      485
GR  1796    9530      1794      9822   1792.5     9900     1792     9982    1791.1    10000
GR  1792   10012      1794     10045   1794.4    10100

ET            3.1      9859     10025
        ************************************************
        ***  END WEST BRANCH DESERT HILLS ANALYSIS  ***
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      ************************************************
X     0.58      11      9945    10025     370      370      370
GR  1798.6    9540      1798     9650    1796     9750     1794     9850     1794     9855
GR    1796    9945      1794     9995  1793.4    10000     1794    10005     1796    10025
GR    1797   10080
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .600 CEHV= .900
1490 NH CARD USED
*SECNO .050

.050	6.50	1781.00	1778.10	1781.00	1781.02	.02	.00	.00	1776.00
4772.0	800.4	200.0	3771.6	772.8	109.3	3067.8	.0	.0	1776.00
.00	1.04	1.83	1.23	.065	.050	.055	.000	1774.50	9737.50
.000374	100.	300.	150.	0	10	0	.00	1260.05	10997.55

FLOW DISTRIBUTION FOR SECNO= .05 CWSEL= 1781.00

STA=	9738.	9991.	10010.	10101.	10189.	10475.	10654.	10907.	10998.
PER Q=	16.8	4.2	8.5	4.8	31.3	26.7	7.4	.3	
AREA=	772.8	109.3	364.0	255.2	1086.8	810.5	506.0	45.3	
VEL=	1.0	1.8	1.1	.9	1.4	1.6	.7	.3	
DEPTH=	3.0	5.8	4.0	2.9	3.8	4.5	2.0	.5	

1490 NH CARD USED
*SECNO .140

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .66

.140	5.42	1781.22	1778.87	.00	1781.27	.04	.22	.02	1778.00
4772.0	119.9	35.6	4616.6	166.4	21.4	2699.9	32.7	12.6	1778.00
.07	.72	1.66	1.71	.065	.060	.052	.000	1775.80	9832.42
.000852	510.	490.	400.	2	14	0	.00	1374.33	11206.75

FLOW DISTRIBUTION FOR SECNO= .14 CWSEL= 1781.22

STA=	9832.	9997.	10003.	10223.	10538.	10640.	10655.	10860.	10988.	11207.
PER Q=	2.5	.7	5.0	14.0	20.4	4.4	41.1	8.8	3.0	
AREA=	166.4	21.4	288.5	541.7	430.6	79.8	865.4	284.4	209.4	
VEL=	.7	1.7	.8	1.2	2.3	2.6	2.3	1.5	.7	
DEPTH=	1.0	3.6	1.3	1.7	4.2	5.3	4.2	2.2	1.0	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .600 CEHV= .900
*SECNO .230
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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*********************************
***  WEST BRANCH DESERT HILLS  ***
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.230	3.08	1784.08	1784.08	.00	1784.59	.51	.55	.41	1782.00
1023.0	490.6	276.6	255.7	126.6	31.0	66.0	49.5	21.1	1782.00
.09	3.88	8.94	3.88	.065	.050	.065	.000	1781.00	9872.82
.026030	470.	477.	470.	0	14	0	.00	197.85	10070.68

FLOW DISTRIBUTION FOR SECNO= .23 CWSEL= 1784.08

STA=	9873.	9995.	10007.	10068.	10071.
PER Q=	48.0	27.0	25.0	.0	
AREA=	126.6	31.0	65.9	.1	
VEL=	3.9	8.9	3.9	.4	
DEPTH=	1.0	2.6	1.1	.0	

*SECNO .320
3002 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.11

.320	3.96	1787.66	1786.28	.00	1787.74	.08	2.90	.26	1784.00
1023.0	232.0	71.7	719.3	127.0	19.1	343.0	53.3	23.6	1784.00
.15	1.83	3.75	2.10	.065	.050	.065	.000	1783.70	9910.99
.002690	470.	470.	470.	6	12	0	.00	261.88	10172.86

FLOW DISTRIBUTION FOR SECNO= .32 CWSEL= 1787.66

STA=	9911.	9967.	9997.	10002.	10111.	10173.
PER Q=	4.8	17.9	7.0	65.0	5.3	
AREA=	46.8	80.2	19.1	291.2	51.7	
VEL=	1.1	2.3	3.7	2.3	1.1	
DEPTH=	.8	2.7	3.8	2.7	.8	

*SECNO .400

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .58

.400	2.54	1789.54	1788.88	.00	1789.71	.17	1.89	.08	1788.00
1023.0	669.3	307.4	46.3	239.3	71.5	26.8	57.5	26.1	1788.00
.19	2.80	4.30	1.73	.065	.050	.065	.000	1787.00	9817.15
.008094	450.	435.	420.	5	14	0	.00	237.56	10054.71

FLOW DISTRIBUTION FOR SECNO= .40 CWSEL= 1789.54

STA=	9817.	9875.	9905.	9925.	9985.	10020.	10055.
PER Q=	7.5	19.8	13.2	24.8	30.0	4.5	
AREA=	44.6	61.3	40.9	92.6	71.5	26.8	
VEL=	1.7	3.3	3.3	2.7	4.3	1.7	
DEPTH=	.8	2.0	2.0	1.5	2.0	.8	

*SECNO .500

.500	2.76	1793.86	1793.36	.00	1794.10	.24	4.32	.06	1792.50
1023.0	85.5	937.5	.0	48.5	230.7	.0	60.9	28.6	1794.00
.23	1.76	4.06	.00	.065	.050	.000	.000	1791.10	9828.96
.009866	485.	485.	485.	4	15	0	.00	213.84	10042.79

FLOW DISTRIBUTION FOR SECNO= .50 CWSEL= 1793.86

STA=	9829.	9900.	10045.
PER Q=	8.4	91.6	
AREA=	48.5	230.7	
VEL=	1.8	4.1	
DEPTH=	.7	1.6	

*SECNO .580

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

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**********************************************
***  END WEST BRANCH DESERT HILLS ANALYSIS  ***
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.580	3.12	1796.52	1795.62	.00	1796.61	.09	2.42	.09	1796.00
1023.0	634.1	384.3	4.7	307.6	134.4	7.4	64.0	30.9	1796.00
.27	2.06	2.86	.63	.065	.050	.065	.000	1793.40	9724.13
.004652	370.	370.	370.	4	15	0	.00	329.32	10053.45

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .58 CWSEL= 1796.52

STA=	9724.	9750.	9850.	9855.	9945.	10025.	10053.
PER Q=	.4	30.5	3.6	27.5	37.6	.5	
AREA=	6.7	151.7	12.6	136.6	134.4	7.4	
VEL=	.6	2.1	2.9	2.1	2.9	.6	
DEPTH=	.3	1.5	2.5	1.5	1.7	.3	

T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME: DSRTWST.DAT JJA NO. 290-018 (ENCROACHMENT RUN)
T3 REV. 6-9-92 WEST BRANCH DESERT HILLS WASH -- 100 YEAR FLOW FLOODWAY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0	0	0	1023	1781.9	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1	0	0	0	-1	0	0	15

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    L-BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      R-BANK ELEV
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


*PROF 2

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS



CCHV=     .600 CEHV=     .900
1490 NH CARD USED
*SECNO  .050
3280 CROSS SECTION       .05 EXTENDED       .10 FEET


3470 ENCROACHMENT STATIONS=     9950.4   10250.0  TYPE=      1  TARGET=      299.600
      .050      7.40   1781.90   1777.83   1781.00   1781.91       .01       .00       .00   1776.00
    1023.0     174.8     150.5     697.8     229.3     126.4    1013.4        .0        .0   1776.00
       .00       .76      1.19       .69      .065      .050      .064      .000   1774.50   9950.40
   .000130      100.      300.      150.         0        13         0       .00    299.60  10250.00


FLOW DISTRIBUTION FOR SECNO=       .05          CWSEL=   1781.90

STA=    9950.    9991.   10010.   10101.   10189.   10241.   10250.
 Q=     17.1     14.7     32.8     20.8     12.3      2.3
AREA=   229.3    126.4    445.9    334.4    197.6     35.4
 VEL=      .8      1.2       .8       .6       .6       .7
DEPTH=    5.6      6.7      4.9      3.8      3.8      3.9

1490 NH CARD USED
*SECNO  .140
3280 CROSS SECTION       .14 EXTENDED       .05 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .21


3470 ENCROACHMENT STATIONS=     9900.0   10100.0  TYPE=      1  TARGET=      200.000
      .140      6.25   1782.05   1780.84   1781.22   1782.14       .08       .16       .07   1778.00
    1023.0     422.1      95.3     505.6     205.0      26.4     226.8       9.1       2.5   1778.00
       .05      2.06      3.61      2.23      .065      .060      .065      .000   1775.80   9900.00
   .003048      510.      490.      400.         2        17         0       .00    200.00  10100.00
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .14 CWSEL= 1782.05

STA=	9900.	9915.	9945.	9973.	9991.	9997.	10003.	10017.	10022.	10033.	10043.	10100.
PER Q=	5.6	12.3	11.4	7.4	4.6	9.3	11.0	2.0	7.3	6.6	22.5	
AREA=	30.8	61.5	57.4	36.9	18.3	26.4	42.7	10.3	30.3	27.5	116.0	
VEL=	1.9	2.0	2.0	2.0	2.6	3.6	2.6	2.0	2.5	2.5	2.0	
DEPTH=	2.1	2.1	2.1	2.1	3.1	4.4	3.1	2.1	2.8	2.8	2.0	

CCHV= .600 CEHV= .900
*SECNO .230

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .49

3470 ENCROACHMENT STATIONS= 9950.0 10050.0 TYPE= 1 TARGET= 100.000
****
*** WEST BRANCH DESERT HILLS ***
****

.230	3.61	1784.61	1784.10	1784.08	1785.02	.40	2.60	.29	1782.00
1023.0	433.6	266.6	322.8	100.7	37.5	82.4	12.8	4.1	1782.00
.08	4.31	7.12	3.92	.065	.050	.065	.000	1781.00	9950.00
.012808	470.	477.	470.	2	9	0	.00	100.00	10050.00

FLOW DISTRIBUTION FOR SECNO= .23 CWSEL= 1784.61

STA=	9950.	9995.	10007.	10050.
PER Q=	42.4	26.1	31.6	
AREA=	100.7	37.5	82.4	
VEL=	4.3	7.1	3.9	
DEPTH=	2.2	3.1	1.9	

*SECNO .320

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.79

3470 ENCROACHMENT STATIONS= 9950.8 10050.6 TYPE= 1 TARGET= 99.830

.320	4.38	1788.08	1786.42	1787.66	1788.25	.17	3.09	.14	1784.00
1023.0	342.3	103.3	577.4	122.1	21.1	176.4	15.7	5.2	1784.00
.12	2.80	4.89	3.27	.065	.050	.065	.000	1783.70	9950.77
.003997	470.	470.	470.	3	19	0	.00	99.83	10050.60

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      .32         CWSEL=   1788.08

STA=    9951.    9967.    9997.   10002.   10051.
  PER Q=      5.9     27.5     10.1     56.4
   AREA=     29.8     92.3     21.1    176.4
    VEL=      2.0      3.1      4.9      3.3
  DEPTH=      1.8      3.1      4.2      3.6

*SECNO  .400

3470 ENCROACHMENT STATIONS=     9920.0   10025.0  TYPE=      1  TARGET=      105.000
      .400      3.33   1790.33   1789.37   1789.54   1790.60       .27      2.26       .09   1788.00
    1023.0     502.3     492.1      28.5     152.2      99.1      11.1      18.6       6.2   1788.00
       .15      3.30      4.97      2.57      .065      .050      .065      .000   1787.00   9920.00
   .006982      450.      435.      420.         3        11         0       .00    105.00  10025.00


FLOW DISTRIBUTION FOR SECNO=      .40         CWSEL=   1790.33

STA=    9920.    9925.    9985.   10020.   10025.
  PER Q=      3.2     45.9     48.1      2.8
   AREA=     12.3    139.9     99.1     11.1
    VEL=      2.6      3.4      5.0      2.6
  DEPTH=      2.5      2.3      2.8      2.2

*SECNO  .500

3470 ENCROACHMENT STATIONS=     9880.0   10045.0  TYPE=      1  TARGET=      165.000
      .500      2.91   1794.01   1793.36   1793.86   1794.23       .22      3.60       .03   1792.50
    1023.0      62.3     960.7        .0      26.4     251.9        .0      21.6       7.7 100000.00
       .19      2.36      3.81       .00      .065      .050      .000      .000   1791.10   9880.00
   .007896      485.      485.      485.         4        20         0       .00    165.00  10045.00


FLOW DISTRIBUTION FOR SECNO=      .50         CWSEL=   1794.01

STA=    9880.    9900.   10045.
  PER Q=      6.1     93.9
   AREA=     26.4    251.9
    VEL=      2.4      3.8
  DEPTH=      1.3      1.7
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .580

3470 ENCROACHMENT STATIONS= 9859.0 10025.0 TYPE= 1 TARGET= 166.000

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**********************************************
***  END WEST BRANCH DESERT HILLS ANALYSIS  ***
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.580	3.41	1796.81	1796.08	1796.52	1796.99	.19	2.74	.02	1796.00
1023.0	413.6	609.4	.0	151.6	157.6	.0	24.1	9.1	100000.00
.22	2.73	3.87	.00	.065	.050	.000	.000	1793.40	9859.00
.006973	370.	370.	370.	2	10	0	.00	166.00	10025.00

FLOW DISTRIBUTION FOR SECNO= .58 CWSEL= 1796.81

STA=	9859.	9945.	10025.
PER Q=	40.4	59.6	
AREA=	151.6	157.6	
VEL=	2.7	3.9	
DEPTH=	1.8	2.0	

THIS RUN EXECUTED 15JUL92 08:55:26

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1991
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

6-9-92 WEST BRANCH DE

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	.050	.00	.00	.00	1774.50	4772.00	1781.00	1778.10	1781.02	3.74	1.83	3949.78	2465.91
	.050	.00	.00	.00	1774.50	1023.00	1781.90	1777.83	1781.91	1.30	1.19	1369.00	895.52
*	.140	490.00	.00	.00	1775.80	4772.00	1781.22	1778.87	1781.27	8.52	1.66	2887.71	1635.07
*	.140	490.00	.00	.00	1775.80	1023.00	1782.05	1780.84	1782.14	30.48	3.61	458.13	185.31
*	.230	477.00	.00	.00	1781.00	1023.00	1784.08	1784.08	1784.59	260.30	8.94	223.51	63.41
*	.230	477.00	.00	.00	1781.00	1023.00	1784.61	1784.10	1785.02	128.08	7.12	220.52	90.39
	.320	470.00	.00	.00	1783.70	1023.00	1787.66	1786.28	1787.74	26.90	3.75	489.06	197.24
*	.320	470.00	.00	.00	1783.70	1023.00	1788.08	1786.42	1788.25	39.97	4.89	319.62	161.80
*	.400	435.00	.00	.00	1787.00	1023.00	1789.54	1788.88	1789.71	80.94	4.30	337.57	113.71
	.400	435.00	.00	.00	1787.00	1023.00	1790.33	1789.37	1790.60	69.82	4.97	262.41	122.43
	.500	485.00	.00	.00	1791.10	1023.00	1793.86	1793.36	1794.10	98.66	4.06	279.28	102.99
	.500	485.00	.00	.00	1791.10	1023.00	1794.01	1793.36	1794.23	78.96	3.81	278.31	115.13
*	.580	370.00	.00	.00	1793.40	1023.00	1796.52	1795.62	1796.61	46.52	2.86	449.32	149.99
	.580	370.00	.00	.00	1793.40	1023.00	1796.81	1796.08	1796.99	69.73	3.87	309.18	122.50

-92 WEST BRANCH DE

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	.050	4772.00	1781.00	.00	.00	.00	1260.05	.00
	.050	1023.00	1781.90	.90	.00	.90	299.60	.00
*	.140	4772.00	1781.22	.00	.22	.00	1374.33	490.00
*	.140	1023.00	1782.05	.83	.15	.83	200.00	490.00
*	.230	1023.00	1784.08	.00	2.86	.00	197.85	477.00
*	.230	1023.00	1784.61	.53	2.56	.53	100.00	477.00
*	.320	1023.00	1787.66	.00	3.58	.00	261.88	470.00
*	.320	1023.00	1788.08	.41	3.46	.41	99.83	470.00
*	.400	1023.00	1789.54	.00	1.88	.00	237.56	435.00
	.400	1023.00	1790.33	.79	2.25	.79	105.00	435.00
	.500	1023.00	1793.86	.00	4.32	.00	213.84	485.00
	.500	1023.00	1794.01	.15	3.68	.15	165.00	485.00
*	.580	1023.00	1796.52	.00	2.66	.00	329.32	370.00
	.580	1023.00	1796.81	.29	2.79	.29	166.00	370.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=      .140  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .140  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .230  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .230  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=      .230  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .320  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .320  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .400  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .580  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

Roadway width summary: 6-9-92 WEST BRANCH DE
Profile No. 2

Section Number	Elevation Increase	Top Width	Left Encroach Station	Left Sta Distance From Center	Center Station	Right Sta Distance From Center	Right Encroach Station
.050	.90	299.60	9950.40	50.10	10000.50	249.50	10250.00
.140	.83	200.00	9900.00	100.00	10000.00	100.00	10100.00
.230	.53	100.00	9950.00	51.00	10001.00	49.00	10050.00
.320	.41	99.83	9950.77	48.73	9999.50	51.10	10050.60
.400	.79	105.00	9920.00	82.50	10002.50	22.50	10025.00
.500	.15	165.00	9880.00	92.50	9972.50	72.50	10045.00
.580	.29	166.00	9859.00	126.00	9985.00	40.00	10025.00

FLOODWAY DATA, 6-9-92 WEST BRANCH DE
PROFILE NO. 2

STATION	------- FLOODWAY ------- WIDTH	SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
.050	300.	1369.	.7	1781.9	1781.0	.9
.140	200.	458.	2.2	1782.0	1781.2	.8
.230	100.	221.	4.6	1784.6	1784.1	.5
.320	100.	320.	3.2	1788.1	1787.7	.4
.400	105.	262.	3.9	1790.3	1789.5	.8
.500	165.	278.	3.7	1794.1	1793.9	.2
.580	166.	309.	3.3	1796.8	1796.5	.3

JONATHAN WASH

THIS RUN EXECUTED 24JUL92 11:07:36

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.0;  February 1991
************************************


THIS IS AN ARCHIVAL RUN ALL DATA AND RESULTS ARE SAVED ON UNIT   96

AC
AC AERIAL MAPPING:  KENNEY AERIAL MAPPING CO. -- DATE  JULY-NOV. 1990
AC                  1130 W. FILLMORE PHX. AZ. 85007
AC                  PHONE (602) 258-6471   ELLIS HYDE
AC
AC SURVEY CONTROL:  McCUEN GPS INC. -- DATE  JUNE 1990
AC                  8948 W. CALLE LEJOS PEORIA AZ.
AC                  PHONE (602) 995-8445   GLEN McCUEN R.L.S.
AC
AC HYDROLOGY & FIS: JERRY R. JONES & ASSOC. -- DATE FEB 89-JUNE 91
AC                  2929 E. CAMELBACK ROAD  SUITE 240
AC                  PHX. AZ. 85016
AC                  PHONE (602) 956-9850   ROGER BAELE P.E.
AC
AC                  FILE:  JONA.DAT
AC
AC                  JONATHAN WASH
AC
T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME:  JONA.DAT       JJA NO. 290-018  (EXISTING RUN)
T3 REV.  7-24-92  JONATHAN WASH -- 100 YEAR FLOW WITHOUT ENCROACHMENTS

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0         5         0         0         0         0         0      8890   1775.19         0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

      1         0        -1         0         0         0        -1         0         0        15


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    115       150       200

QT        1      8890                                8890
NC                                     .6          .9
NH        5      .065    9989.49      .050    10009.33       .065    10205.75       .050    10215.62       .065
NH    10631
ET                3.1       9700     10400
```

```
      .04        23    9989.49   10009.33       250       190       260
     1776      9280       1774    9400.75      1772   9540.98      1772   9989.49      1770   9994.04
GR   1768   9998.48       1768    9998.91      1770     10004      1772  10009.33      1772  10133.70
GR   1772  10141.84       1772   10185.28      1770  10190.16      1768  10192.63      1768  10205.75
GR   1770  10210.21       1772   10215.62      1772  10260.74      1772  10270.82      1774     10360
GR   1776     10420       1778      10555      1780     10631

QT      1      4772                            4772
NH      4        20      10475       .065     10660      .050     10810      .065     11200
ET               3.1    10657.7    10961.7
         ***********************************************
         ***  CONFLUENCE WITH DESERT HILLS WASH       *
         ***  CROSS-SECTION 0.12 IS THE SAME AS       *
         ***  CROSS-SECTION 1.95 OF DESERT HILLS WASH *
         ***********************************************
X1    0.12        18      10660      10810       500       270       500
GR  1779.0   9350.00    1778.00    9462.00   1776.00   9520.00   1774.50   9550.00   1774.00   9992.98
GR  1772.0   9997.29    1772.00   10006.29   1774.00  10014.82   1776.00  10300.00   1776.40     10475
GR   1776     10560       1774      10620      1774     10660      1770     10670      1772     10680
GR   1774     10810       1776      11000      1778     11200

NC  0.060     0.060       0.05        0.6       0.9
ET               3.1       9890      10240
X1   0.18        13       9985      10040       285       285       285
GR   1780      9630       1778       9770      1778      9845      1776      9925      1774      9985
GR   1772      9997     1771.6      10000      1772     10020      1774     10040      1776     10115
GR   1776     10210       1778      10325      1780     10493

                 3.1       9920      10270
         ****************************************************************
         ***  JUST DOWNSTREAM OF 4-12'X6'X128' CBC'S WITH HEADWALLS AND
         ***  WINGS BENEATH  CAREFREE HIGHWAY - 10TH STREET INTERSECTION
         ****************************************************************
X1   0.20        14       9970      10030       110       110       110
X3     10
GR   1780      9570       1780       9690      1778      9810      1778      9895      1779      9955
GR  1777.6     9970     1771.6       9975    1771.6     10025    1777.6     10030      1778     10055
GR   1776     10090       1776      10130      1778     10300      1780     10475

ET               3.1    9870.09      10400
NC  0.065     0.065      0.050        0.3       .05
SC  4.012       0.5        3.1          0         6        12       130       8.1      1772    1771.6
         ****************************************************************
         ***  JUST UPSTREAM OF 4-12'X6'X128' CBC'S WITH HEADWALLS AND
         ***  WINGS BENEATH CAREFREE HIGHWAY - 10TH STREET INTERSECTION
         ***  CULVERT SKEWED 45 DEG. LEFT TO THE ROAD.
         ****************************************************************
         ****************************************************************
         ***  JONATHAN WASH AND DESERT HILLS--WEST BRANCH CONFLUENCE ***
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          ***************************************************************
X1      0.22       15     9979.9    10030      130      130      130
X2         0        0        2     1778     1780
X3        10
BT       -11     9710     1778      1778     9910     1778     1778     9925     1779     1779
BT              9960     1779      1779   9979.9     1780     1780     9980     1780     1778
BT             10030     1780      1778    10030     1780     1780    10040     1780     1780
BT             10120     1780      1780    10485     1779     1779
GR     1781     9491     1780      9590     1778     9710     1778     9910     1779     9925
GR     1779     9960     1780    9979.9     1772     9980     1772    10030     1780    10030
GR     1780    10040     1780     10120     1779    10485     1780    10765     1782    10855

NC    0.065    0.065     0.05       0.1      0.3
ET              3.1   9860.7   10430.6
X1    0.222       12     9970     10040       10       10       10
GR     1781     9500     1780      9590     1778     9705     1778     9970     1772     9980
GR     1772    10030     1780     10040     1780    10120     1779    10510     1778    10665
GR     1780    10815     1782     10980

NH        5     .065     9991      .050    10010     .065    10241     .050    10654     .065
NH    11070
QT        1     3406                       4772
ET              3.1    10241     10654
X1     0.28       14    10241     10654      470      460      465
GR     1782     9700     1780      9775     1778     9830     1776     9991   1774.5    10000
GR     1776    10010     1778     10101   1778.2    10189     1778    10241     1776    10475
GR     1775    10480     1778     10654     1780    10907   1781.8    11070

          5     .065     9997       .06    10003     .065    10375      .05    10988     .065
      11260
ET              3.1    10579     10920
          ****************************************************
          ***  CROSS SECTION ASSOCIATED WITH JONATHAN WASH AND
          ***  DESERT HILLS--WEST BRANCH.
          ****************************************************
X1     0.38       27    10640     10655      300      260      280
GR   1783.3     9612     1782      9790     1780     9899     1780     9915     1780     9945
GR     1780     9973     1780      9991     1778     9997   1777.3    10000     1778    10003
GR     1780    10017     1780     10022   1778.6    10033     1780    10043   1780.1    10223
GR     1780    10245     1780     10275   1780.1    10335     1780    10375     1778    10538
GR     1776    10640   1775.8     10645     1776    10655     1778    10860     1780    10988
GR   1780.1    11130     1782     11260

NC     .065     .065      .05        .6       .9
QT        1     3406                       3406
ET              3.1     9863   10201.4
X1     0.57       11     9940     10023      210      210      210
GR     1782     9612     1780      9721     1778     9940   1776.6    10000     1778    10023
GR   1778.1    10041     1778     10065   1777.9    10085     1778    10105     1780    10379
GR     1782    10463
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E                3.1     9876.5    10129.7
X1     0.66        9      9914      10009       480       510       496
GR     1784     9480      1782       9670      1780      9914    1778.3     10000      1780     10009
GR   1779.8    10063      1780      10114      1782     10356      1784     10530

ET               3.1     9927.2    10175.2
X1     0.77       13      9991      10019       500       480       495
GR     1786     9554      1784       9806      1782      9875      1782      9889      1782      9991
GR     1780    10000      1780      10009      1782     10019      1782     10056    1781.7     10094
GR     1782    10141      1784      10494      1786     10760

NH        3     .065      9954       .050     10195      .065     10665
ET               3.1      9952      10130
X1     0.85       11      9989      10000       500       500       500
GR     1788     9648      1786       9854      1784      9939    1783.8      9954      1784      9970
GR     1784     9982      1782       9989      1782     10000      1784     10195      1786     10477
GR     1788    10665

NC     .065     .065      .050
ET               3.1      9870      10100
X1     0.92       10      9992      10009       418       418       418
GR     1790     9614      1788       9767      1786      9848      1784      9956      1784      9992
GR     1783    10000      1784      10009      1786     10191      1788     10507      1790     10708

ET               3.1     9850.7    10085.2
          ***************************************************
          ***  10TH STREET LOCATED BETWEEN 1.00 AND 1.09  ***
          ***************************************************
X      1.00       11      9985      10016       360       360       360
GR     1790     9671      1788       9787      1786      9902    1785.8      9915      1786      9928
GR   1786.4     9957      1786       9985    1784.7     10000      1786     10016      1788     10213
GR     1790    10568

ET               3.1      9970    10200.6
X1     1.09        9      9975      10015       430       440       435
GR   1792.6     9651      1792       9781      1790      9910      1788      9975      1787     10000
GR     1788    10015      1788      10071      1790     10366      1792     10637

ET               3.1     9950.3    10230.9
X1     1.16       10      9979      10038       350       350       350
GR     1793     9543      1792       9656      1790      9979    1789.5     10000      1790     10038
GR     1790    10084    1789.9      10131      1790     10165      1792     10472      1794     10700

ET               3.1     9850.9    10170.6
X1     1.24       10      9982      10018       487       450       450
GR   1794.9     9399      1794       9586      1794      9586      1792      9839    1791.5      9982
GR     1791    10000    1791.5      10018      1792     10215      1794     10502      1796     10740
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```
ET                3.1      9900     10280
X1     1.33        15      9993     10004       450       510       465
GR     1796      9396      1794      9575      1794      9596      1794      9703      1794      9743
GR     1794      9764    1792.8      9932      1792      9993    1791.6     10000      1792     10004
GR     1793     10131      1792     10229      1792     10264      1794     10338      1796     10574

ET                3.1      9900     10330
          ********************************
          ***  END JONATHAN WASH STUDY  ***
          ********************************
X1     1.42         8      9988     10012       570       600       580
GR   1798.4      9366      1798      9474      1796      9988    1795.8     10000      1796     10012
GR   1796.6     10062      1796     10285      1798     10635
```

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS



CCHV=     .600 CEHV=     .900
1490 NH CARD USED
*SECNO  .040
      .040      7.19   1775.19   1773.52   1775.19   1775.33       .14       .00       .00   1772.00
    8890.0    4908.7     517.0    3464.2    1780.6     103.5    1134.2        .0        .0   1772.00
       .00      2.76      5.00      3.05      .065      .050      .064      .000   1768.00   9328.91
   .003463      250.      260.      190.         0        12         0       .00   1066.79  10395.70


FLOW DISTRIBUTION FOR SECNO=       .04          CWSEL=   1775.19

STA=    9329.    9541.    9989.   10009.   10134.   10185.   10206.   10261.   10360.   10396.
  PER Q=      8.3     46.9      5.8     13.0      5.4      6.7      7.6      6.0       .2
   AREA=    349.8   1430.7    103.5    396.7    164.5    130.1    194.2    227.5     21.2
    VEL=      2.1      2.9      5.0      2.9      2.9      4.6      3.5      2.4      1.0
  DEPTH=      1.6      3.2      5.2      3.2      3.2      6.4      3.5      2.3       .6

1490 NH CARD USED
*SECNO  .120

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .45

          ***********************************************
          ***  CONFLUENCE WITH DESERT HILLS WASH       *
          ***  CROSS-SECTION 0.12 IS THE SAME AS       *
          ***  CROSS-SECTION 1.95 OF DESERT HILLS WASH *
          ***********************************************
      .120      6.85   1776.85   1775.75       .00   1777.15       .30      1.68       .14   1774.00
    4772.0     715.2    3179.8     876.9    2228.1     607.9     388.4      31.8      13.5   1774.00
       .03       .32      5.23      2.26      .552      .050      .065      .000   1770.00   9495.27
   .004835      500.      500.      270.         2        15         0       .00   1590.01  11085.28


FLOW DISTRIBUTION FOR SECNO=       .12          CWSEL=   1776.85

STA=    9495.   10620.   10660.   10810.   11000.   11085.
  PER Q=      7.3      7.6     66.6     17.7       .7
   AREA=   2114.0    114.1    607.9    352.0     36.4
    VEL=       .2      3.2      5.2      2.4       .9
  DEPTH=      1.9      2.9      4.1      1.9       .4
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   ECNO      DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .600 CEHV=     .900
*SECNO  .180
     .180      6.62   1778.22   1777.37       .00   1778.59       .37      1.37       .06   1774.00
   4772.0     921.6    2061.5    1788.9     308.3     314.5     593.8      46.3      20.6   1774.00
      .05      2.99      6.55      3.01      .060      .050      .060      .000   1771.60   9754.81
  .004789      285.      285.      285.         2        10         0       .00    588.42  10343.23


FLOW DISTRIBUTION FOR SECNO=       .18          CWSEL=   1778.22

STA=    9755.    9770.    9845.    9925.    9985.   10040.   10115.   10210.   10325.   10343.
  PER Q=       .0       .2      4.0     15.1     43.2     18.9     12.9      5.7       .0
   AREA=      1.6     16.3     97.4    193.0    314.5    241.3    210.6    140.0      2.0
    VEL=       .4       .6      2.0      3.7      6.6      3.7      2.9      2.0       .4
  DEPTH=       .1       .2      1.2      3.2      5.7      3.2      2.2      1.2       .1

*SECNO  .200

3265 DIVIDED FLOW

          ****************************************************************
          ***  JUST DOWNSTREAM OF 4-12'X6'X128' CBC'S WITH HEADWALLS AND
          ***  WINGS BENEATH  CAREFREE HIGHWAY - 10TH STREET INTERSECTION
          ****************************************************************
     .200      7.18   1778.78   1778.39       .00   1779.42       .64       .59       .25   1777.60
   4772.0     155.4    3090.1    1526.4     110.2     400.8     527.1      49.2      22.1   1777.60
      .05      1.41      7.71      2.90      .060      .050      .060      .000   1771.60   9763.22
  .006028      110.      110.      110.         2         8         0       .00    589.42  10368.22


FLOW DISTRIBUTION FOR SECNO=       .20          CWSEL=   1778.78

STA=    9763.    9810.    9895.    9942.    9970.   10030.   10055.   10090.   10130.   10300.   10368.
  PER Q=       .4      2.3       .4       .2     64.8      1.0      3.7      8.9     17.9       .6
   AREA=     18.2     66.3     18.2      7.5    400.8     24.5     62.3    111.2    302.5     26.6
    VEL=      1.0      1.6      1.0      1.3      7.7      1.9      2.8      3.8      2.8      1.0
  DEPTH=       .4       .8       .4       .3      6.7      1.0      1.8      2.8      1.8       .4

CCHV=     .300 CEHV=     .050
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL CULVERT

SC	CUNO	CUNV	ENTLC	COFQ	RDLEN	RISE	SPAN	CULVLN	CHRT	SCL	ELCHU	ELCHD
	4	.012	.50	3.10	.00	6.00	12.00	130.00	8	1	1772.00	1771.60

CHART 8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
SCALE 1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO .220
5155, 20 TRIALS OF QWEIR NOT ENOUGH; POSSIBLY INVALID
FINAL QWEIR + QCULV = 5352. DOES NOT EQUAL ACTUAL Q = 4772.

SPECIAL CULVERT

EGIC	EGOC	H4	QWEIR	QCULV	VCH	ACULV	ELTRD	WEIRLN
1787.42	1786.10	.68	2672.	2681.	7.041	288.0	1780.00	775.

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3710 WSEL ASSUMED BASED ON MIN DIFF
3693 PROBABLE MINIMUM SPECIFIC ENERGY

```
**************************************************************
***  JUST UPSTREAM OF 4-12'X6'X128' CBC'S WITH HEADWALLS AND
***  WINGS BENEATH CAREFREE HIGHWAY - 10TH STREET INTERSECTION
***  CULVERT SKEWED 45 DEG. LEFT TO THE ROAD.
**************************************************************
**************************************************************
***  JONATHAN WASH AND DESERT HILLS--WEST BRANCH CONFLUENCE ***
**************************************************************
```

.220	8.10	1780.10	1778.54	.00	1780.59	.49	.71	-.03	1780.00
4772.0	1471.2	2854.2	446.6	626.6	405.4	395.6	52.9	24.8	1780.00
.06	2.35	7.04	1.13	.065	.050	.065	.000	1772.00	9580.19
.004990	130.	130.	130.	20	11	0	.00	1189.27	10769.46

FLOW DISTRIBUTION FOR SECNO= .22 CWSEL= 1780.10

STA=	9580.	9710.	9910.	9980.	10030.	10485.	10765.	10769.
PER Q=	4.8	23.3	2.8	59.8	5.3	4.0	.0	
AREA=	132.4	419.8	74.4	405.4	227.6	167.8	.2	
VEL=	1.7	2.6	1.8	7.0	1.1	1.1	.2	
DEPTH=	1.0	2.1	1.1	8.1	.5	.6	.0	

CCHV= .100 CEHV= .300
*SECNO .222

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.73

.222	8.48	1780.48	1779.40	.00	1780.65	.17	.03	.03	1778.00
4772.0	1335.8	2337.6	1098.6	836.9	523.5	957.4	53.3	25.1	1780.00
.06	1.60	4.47	1.15	.065	.050	.065	.000	1772.00	9546.98
.001677	10.	10.	10.	3	10	0	.00	1307.46	10854.44

FLOW DISTRIBUTION FOR SECNO= .22 CWSEL= 1780.48

STA=	9547.	9590.	9705.	9970.	10040.	10120.	10510.	10665.	10815.	10854.
PER Q=	.1	4.3	23.6	49.0	.5	7.4	9.5	5.6	.1	
AREA=	10.3	170.0	656.7	523.5	38.2	381.4	306.6	221.7	9.4	
VEL=	.4	1.2	1.7	4.5	.6	.9	1.5	1.2	.4	
DEPTH=	.2	1.5	2.5	7.5	.5	1.0	2.0	1.5	.2	

1490 NH CARD USED
*SECNO .280

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.08

.280	6.46	1780.96	1777.96	.00	1780.99	.03	.33	.01	1778.00
4772.0	1773.6	2635.8	362.6	1633.8	1731.5	538.9	86.6	38.7	1778.00
.16	1.09	1.52	.67	.063	.050	.065	.000	1774.50	9738.86
.000388	470.	465.	460.	3	15	0	.00	1255.41	10994.27

FLOW DISTRIBUTION FOR SECNO= .28 CWSEL= 1780.96

STA=	9739.	9991.	10010.	10101.	10189.	10241.	10654.	10907.	10994.
PER Q=	16.8	4.2	8.5	4.8	2.8	55.2	7.4	.2	
AREA=	763.6	108.6	360.7	252.0	148.9	1731.5	496.8	42.1	
VEL=	1.0	1.9	1.1	.9	.9	1.5	.7	.3	
DEPTH=	3.0	5.7	4.0	2.9	2.9	4.2	2.0	.5	

1490 NH CARD USED
*SECNO .380

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

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*****************************************************
***  CROSS SECTION ASSOCIATED WITH JONATHAN WASH AND
***  DESERT HILLS--WEST BRANCH.
*****************************************************
     .380      5.31   1781.11   1778.90      .00   1781.16      .05      .16      .01   1776.00
   4772.0    2009.2     217.8    2545.0    1359.4     78.2   1298.4    108.2     47.2   1776.00
     .20      1.48      2.79      1.96      .054      .050     .051     .000   1775.80   9838.47
  .000973     300.      280.      260.         2        14        0      .00   1360.69  11199.16


FLOW DISTRIBUTION FOR SECNO=       .38          CWSEL=   1781.11

STA=    9838.   10003.   10223.   10538.   10640.   10655.   10860.   10988.   11199.
  PER Q=      3.0      4.6     13.5     20.9      4.6     42.0      8.6      2.7
   AREA=    169.2    264.1    506.8    419.3     78.2    842.7    270.2    185.6
    VEL=       .9       .8      1.3      2.4      2.8      2.4      1.5       .7
  DEPTH=      1.0      1.2      1.6      4.1      5.2      4.1      2.1       .9

CCHV=     .600 CEHV=     .900
*SECNO  .570

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .57

     .570      4.75   1781.35   1779.68      .00   1781.42      .07      .24      .01   1778.00
   3406.0     840.9     984.1    1581.0     564.7     336.3    957.3    119.2     52.4   1778.00
     .23      1.49      2.93      1.65      .065      .050     .065     .000   1776.60   9647.35
  .001503     210.      210.      210.         2        14        0      .00    788.40  10435.76


FLOW DISTRIBUTION FOR SECNO=       .57          CWSEL=   1781.35

STA=    9647.    9721.    9940.   10023.   10041.   10065.   10085.   10105.   10379.   10436.
  PER Q=      1.0     23.7     28.9      3.4      4.6      4.0      4.0     29.6       .8
   AREA=     49.8    514.9    336.3     59.4     79.2     68.0     68.0    644.3     38.3
    VEL=       .7      1.6      2.9      2.0      2.0      2.0      2.0      1.6       .7
  DEPTH=       .7      2.4      4.1      3.3      3.3      3.4      3.4      2.4       .7

*SECNO  .660

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .62

     .660      4.19   1782.49   1781.54      .00   1782.63      .14     1.14      .07   1780.00
   3406.0     681.7    1316.0    1408.2     373.2     316.7    640.6    137.5     61.3   1780.00
     .28      1.83      4.16      2.20      .065      .050     .065     .000   1778.30   9624.02
  .003934     480.      496.      510.         2        20        0      .00    774.09  10398.11
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .66 CWSEL= 1782.49

STA=	9624.	9670.	9914.	10009.	10063.	10114.	10356.	10398.
PER Q=	.2	19.8	38.6	11.1	10.4	19.7	.2	
AREA=	11.1	362.1	316.7	139.5	131.8	359.1	10.2	
VEL=	.6	1.9	4.2	2.7	2.7	1.9	.6	
DEPTH=	.2	1.5	3.3	2.6	2.6	1.5	.2	

*SECNO .770

.770	4.51	1784.51	1783.48	.00	1784.62	.12	1.97	.02	1782.00
3406.0	994.7	495.5	1915.8	409.0	107.0	863.4	152.7	70.2	1782.00
.33	2.43	4.63	2.22	.065	.050	.065	.000	1780.00	9743.11
.004148	500.	495.	480.	3	9	0	.00	817.28	10560.39

FLOW DISTRIBUTION FOR SECNO= .77 CWSEL= 1784.51

STA=	9743.	9806.	9875.	9889.	9991.	10019.	10056.	10094.	10141.	10494.	10560.
PER Q=	.3	5.9	2.8	20.3	14.5	7.4	8.3	10.3	30.0	.3	
AREA=	15.7	103.4	35.0	254.9	107.0	92.5	100.7	124.5	529.2	16.6	
VEL=	.6	1.9	2.7	2.7	4.6	2.7	2.8	2.8	1.9	.6	
DEPTH=	.2	1.5	2.5	2.5	3.8	2.5	2.6	2.6	1.5	.2	

1490 NH CARD USED
*SECNO .850

.850	4.24	1786.24	1784.95	.00	1786.36	.12	1.73	.00	1782.00
3406.0	485.3	196.6	2724.1	229.9	46.6	982.5	167.8	78.8	1782.00
.38	2.11	4.22	2.77	.057	.050	.053	.000	1782.00	9829.63
.002940	500.	500.	500.	1	14	0	.00	669.61	10499.24

FLOW DISTRIBUTION FOR SECNO= .85 CWSEL= 1786.24

STA=	9830.	9854.	9939.	9954.	9970.	9982.	9989.	10000.	10195.	10477.	10499.
PER Q=	.0	4.4	2.2	3.1	2.2	2.3	5.8	65.3	14.6	.0	
AREA=	2.9	105.1	35.0	37.4	26.8	22.7	46.6	631.1	348.7	2.6	
VEL=	.3	1.4	2.2	2.8	2.8	3.4	4.2	3.5	1.4	.3	
DEPTH=	.1	1.2	2.3	2.3	2.2	3.2	4.2	3.2	1.2	.1	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .920

.920	4.68	1787.68	1786.47	.00	1787.82	.13	1.45	.01	1784.00
3406.0	1367.3	352.1	1686.7	480.8	71.2	714.4	179.9	85.2	1784.00
.43	2.84	4.94	2.36	.065	.050	.065	.000	1783.00	9779.63
.004137	418.	418.	418.	1	15	0	.00	678.11	10457.74

FLOW DISTRIBUTION FOR SECNO= .92 CWSEL= 1787.68

STA=	9780.	9848.	9956.	9992.	10009.	10191.	10458.
PER Q=	2.2	24.2	13.7	10.3	40.8	8.7	
AREA=	57.7	290.3	132.8	71.2	489.3	225.2	
VEL=	1.3	2.8	3.5	4.9	2.8	1.3	
DEPTH=	.8	2.7	3.7	4.2	2.7	.8	

*SECNO 1.000

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**************************************************
***  10TH STREET LOCATED BETWEEN 1.00 AND 1.09  ***
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1.000	4.52	1789.22	1788.24	.00	1789.37	.15	1.54	.01	1786.00
3406.0	1546.5	582.8	1276.6	557.5	120.0	570.3	190.3	91.0	1786.00
.46	2.77	4.86	2.24	.065	.050	.065	.000	1784.70	9716.11
.004410	360.	360.	360.	2	14	0	.00	713.82	10429.93

FLOW DISTRIBUTION FOR SECNO= 1.00 CWSEL= 1789.22

STA=	9716.	9787.	9902.	9915.	9928.	9957.	9985.	10016.	10213.	10430.
PER Q=	1.4	19.4	4.3	4.3	8.2	7.9	17.1	33.2	4.3	
AREA=	43.3	255.5	43.2	43.2	87.6	84.6	120.0	437.8	132.6	
VEL=	1.1	2.6	3.4	3.4	3.2	3.2	4.9	2.6	1.1	
DEPTH=	.6	2.2	3.3	3.3	3.0	3.0	3.9	2.2	.6	

*SECNO 1.090

1.090	4.16	1791.16	1790.21	.00	1791.31	.15	1.94	.00	1788.00
3406.0	405.2	691.1	2309.8	183.9	146.4	905.6	202.8	98.0	1788.00
.50	2.20	4.72	2.55	.065	.050	.065	.000	1787.00	9835.15
.004478	430.	435.	440.	2	14	0	.00	688.10	10523.25

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.09 CWSEL= 1791.16

STA=	9835.	9910.	9975.	10015.	10071.	10366.	10523.
PER Q=	1.4	10.5	20.3	17.1	47.8	2.9	
AREA=	43.4	140.4	146.4	177.0	637.4	91.2	
VEL=	1.1	2.6	4.7	3.3	2.6	1.1	
DEPTH=	.6	2.2	3.7	3.2	2.2	.6	

*SECNO 1.160

1.160	3.13	1792.63	1791.55	.00	1792.72	.09	1.37	.04	1790.00
3406.0	991.1	600.4	1814.6	547.2	169.7	858.9	214.1	104.6	1790.00
.54	1.81	3.54	2.11	.065	.050	.065	.000	1789.50	9585.29
.003467	350.	350.	350.	1	11	0	.00	958.04	10543.33

FLOW DISTRIBUTION FOR SECNO= 1.16 CWSEL= 1792.63

STA=	9585.	9656.	9979.	10038.	10084.	10131.	10165.	10472.	10543.
PER Q=	.4	28.7	17.6	9.1	9.6	6.9	27.3	.4	
AREA=	22.1	525.1	169.7	120.8	125.8	91.0	499.1	22.3	
VEL=	.6	1.9	3.5	2.6	2.6	2.6	1.9	.6	
DEPTH=	.3	1.6	2.9	2.6	2.7	2.7	1.6	.3	

*SECNO 1.240

1.240	3.22	1794.22	1793.05	.00	1794.30	.08	1.57	.01	1791.50
3406.0	1321.1	379.6	1705.3	667.1	106.9	839.8	231.0	115.0	1791.50
.60	1.98	3.55	2.03	.065	.050	.065	.000	1791.00	9540.19
.003343	487.	450.	450.	2	23	0	.00	988.04	10528.23

FLOW DISTRIBUTION FOR SECNO= 1.24 CWSEL= 1794.22

STA=	9540.	9586.	9839.	9982.	10018.	10215.	10502.	10528.
PER Q=	.0	13.7	25.1	11.1	34.5	15.5	.0	
AREA=	5.0	308.8	353.3	106.9	486.7	350.3	2.9	
VEL=	.3	1.5	2.4	3.6	2.4	1.5	.3	
DEPTH=	.1	1.2	2.5	3.0	2.5	1.2	.1	

*SECNO 1.330

1.330	3.83	1795.43	1793.81	.00	1795.48	.05	1.16	.02	1792.00
3406.0	1305.8	118.8	1981.4	883.3	39.8	1075.8	251.0	126.3	1792.00
.68	1.48	2.98	1.84	.065	.050	.065	.000	1791.60	9447.72
.001815	450.	465.	510.	2	17	0	.00	1058.09	10505.81

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.33 CWSEL= 1795.43

STA=	9448.	9596.	9703.	9764.	9932.	9993.	10004.	10131.	10229.	10264.	10338.	10506.
PER Q=	3.1	5.5	3.1	15.5	11.0	3.5	21.7	16.7	7.8	9.2	2.7	
AREA=	120.4	152.2	86.7	339.7	184.3	39.8	371.1	286.4	119.8	179.2	119.3	
VEL=	.9	1.2	1.2	1.6	2.0	3.0	2.0	2.0	2.2	1.8	.8	
DEPTH=	.8	1.4	1.4	2.0	3.0	3.6	2.9	2.9	3.4	2.4	.7	

*SECNO 1.420

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .35

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*********************************
***  END JONATHAN WASH STUDY  ***
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1.420	1.96	1797.76	1797.35	.00	1797.92	.16	2.34	.10	1796.00
3406.0	1025.9	245.3	2134.8	401.0	44.8	673.5	272.1	140.5	1796.00
.73	2.56	5.48	3.17	.065	.050	.065	.000	1795.80	9533.98
.014774	570.	580.	600.	2	18	0	.00	1060.17	10594.16

FLOW DISTRIBUTION FOR SECNO= 1.42 CWSEL= 1797.76

	9534.	9988.	10012.	10062.	10285.	10594.
PER Q=	30.1	7.2	7.7	34.4	20.5	
AREA=	401.0	44.8	73.3	327.1	273.1	
VEL=	2.6	5.5	3.6	3.6	2.6	
DEPTH=	.9	1.9	1.5	1.5	.9	

T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 89-66 -- FILENAME: JONA.DAT JJA NO. 290-018 (ENCROACHMENT RUN)
T3 REV. 7-24-92 JONATHAN WASH -- 100 YEAR FLOW FLOODWAY WITH ENCROACHMENT

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0	0	0	8890	1776.10	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1	0	0	0	-1	0	0	15

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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*PROF 2

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS



CCHV=     .600 CEHV=     .900
1490 NH CARD USED
*SECNO  .040

3470 ENCROACHMENT STATIONS=     9700.0   10400.0  TYPE=      1  TARGET=      700.000
      .040      8.10   1776.10   1773.81   1775.19   1776.26       .16       .00       .00   1772.00
    8890.0    3618.5     603.6    4667.9    1186.9     121.5    1489.4        .0        .0   1772.00
       .00      3.05      4.97      3.13      .065      .050      .064      .000   1768.00   9700.00
   .002761      250.      260.      190.        0.        12         0       .00    700.00  10400.00


FLOW DISTRIBUTION FOR SECNO=       .04          CWSEL=   1776.10

STA=    9700.    9989.   10009.   10134.   10185.   10206.   10216.   10261.   10360.   10400.
  PER Q=     40.7      6.8     17.7      7.3      7.5      3.3      6.4      9.4      1.0
   AREA=   1186.9    121.5    509.9    211.5    148.7     59.3    185.0    317.8     57.3
   VEL=      3.0      5.0      3.1      3.1      4.5      5.0      3.1      2.6      1.5
   DPTH=     4.1      6.1      4.1      4.1      7.3      6.0      4.1      3.2      1.4

1490 NH CARD USED
*SECNO  .120

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .43


3470 ENCROACHMENT STATIONS=    10657.7   10961.7  TYPE=      1  TARGET=      304.000
         ***********************************************
         ***  CONFLUENCE WITH DESERT HILLS WASH       *
         ***  CROSS-SECTION 0.12 IS THE SAME AS       *
         ***  CROSS-SECTION 1.95 OF DESERT HILLS WASH *
         ***********************************************
      .120      7.39   1777.39   1775.88   1776.85   1777.76       .36      1.31       .18   1774.00
    4772.0      14.3    3662.3    1095.4       7.8     688.7     393.3      17.3       4.3   1774.00
       .02      1.83      5.32      2.78      .065      .050      .065      .000   1770.00  10657.70
   .004232      500.      500.      270.         2        13         0       .00    304.00  10961.70
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=       .12          CWSEL=   1777.39

STA=   10658.   10660.   10810.   10962.
  PER Q=       .3     76.7     23.0
   AREA=      7.8    688.7    393.3
    VEL=      1.8      5.3      2.8
  DEPTH=      3.4      4.6      2.6

CCHV=     .600 CEHV=     .900
*SECNO  .180

3470 ENCROACHMENT STATIONS=     9890.0   10240.0  TYPE=      1  TARGET=      350.000
      .180      6.98   1778.58   1777.36   1778.22   1778.91       .33      1.13       .02   1774.00
    4772.0     940.2    2012.9    1818.9     289.3     334.2     582.2      24.9       6.5   1774.00
      .04      3.25      6.02      3.12      .060      .050      .060      .000   1771.60   9890.00
   .003729     285.      285.      285.         2        14         0       .00    350.00  10240.00


FLOW DISTRIBUTION FOR SECNO=       .18          CWSEL=   1778.58

STA=    9890.    9925.    9985.   10040.   10115.   10210.   10240.
  PER Q=      3.8     15.9     42.2     19.9     14.6      3.7
   AREA=     74.8    214.5    334.2    268.1    244.6     69.4
    VEL=      2.4      3.5      6.0      3.5      2.8      2.5
  DEPTH=      2.1      3.6      6.1      3.6      2.6      2.3

*SECNO  .200

3470 ENCROACHMENT STATIONS=     9920.0   10270.0  TYPE=      1  TARGET=      350.000
         ***************************************************************
         ***  JUST DOWNSTREAM OF 4-12'X6'X128' CBC'S WITH HEADWALLS AND
         ***  WINGS BENEATH  CAREFREE HIGHWAY - 10TH STREET INTERSECTION
         ***************************************************************
      .200      7.44   1779.04   1778.31   1778.78   1779.64       .60       .49       .25   1777.60
    4772.0      25.4    3081.7    1664.9      22.2     415.8     532.0      27.6       7.4   1777.60
      .05      1.14      7.41      3.13      .060      .050      .060      .000   1771.60   9920.00
   .005302     110.      110.      110.         1        10         0       .00    350.00  10270.00


FLOW DISTRIBUTION FOR SECNO=       .20          CWSEL=   1779.04
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9920.    9955.    9970.   10030.   10055.   10090.   10130.   10270.
  PER Q=      .2       .3     64.6      1.3      4.3      9.6     19.7
   AREA=    11.3     11.0    415.8     30.8     71.1    121.2    308.9
    VEL=      .8      1.5      7.4      2.1      2.9      3.8      3.0
  DEPTH=      .3       .7      6.9      1.2      2.0      3.0      2.2

CCHV=     .300 CEHV=     .050

SPECIAL CULVERT

SC  CUNO      CUNV      ENTLC     COFQ      RDLEN     RISE      SPAN      CULVLN    CHRT      SCL       ELCHU     ELCHD
     4         .012      .50      3.10       .00      6.00     12.00    130.00      8         1      1772.00   1771.60

CHART  8 - BOX CULVERT WITH FLARED WINGWALLS; NO INLET TOP EDGE BEVEL
SCALE  1 - WINGWALLS FLARED 30 TO 75 DEGREES

*SECNO  .220
5155, 20 TRIALS OF QWEIR NOT ENOUGH; POSSIBLY INVALID
FINAL QWEIR + QCULV =      5321. DOES NOT EQUAL ACTUAL Q =      4772.

SPECIAL CULVERT

 EGIC      EGOC       H4      QWEIR     QCULV      VCH      ACULV     ELTRD    WEIRLN
1787.42   1786.36     .45      2642.     2679.    8.356     288.0   1780.00     775.


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3710 WSEL ASSUMED BASED ON MIN DIFF
3693 PROBABLE MINIMUM SPECIFIC ENERGY

3470 ENCROACHMENT STATIONS=     9870.1   10400.0  TYPE=      1  TARGET=      529.910
         ***************************************************************
         ***  JUST UPSTREAM OF 4-12'X6'X128' CBC'S WITH HEADWALLS AND
         ***  WINGS BENEATH CAREFREE HIGHWAY - 10TH STREET INTERSECTION
         ***  CULVERT SKEWED 45 DEG. LEFT TO THE ROAD.
         ***************************************************************
         ***************************************************************
         ***  JONATHAN WASH AND DESERT HILLS--WEST BRANCH CONFLUENCE ***
         ***************************************************************
     .220      8.59   1780.59   1778.54   1780.10   1781.43       .84       .76      -.31   1780.00
   4772.0     620.3    3592.1     559.6     211.9     429.9     325.3      30.5       8.7   1780.00
     .05      2.93      8.36      1.72      .065      .050      .065      .000   1772.00   9870.09
  .006497     130.      130.      130.        20        12         0       .00    529.91  10400.00


FLOW DISTRIBUTION FOR SECNO=       .22          CWSEL=   1780.59
```

```
    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME       VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE      XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9870.    9910.    9925.    9960.    9980.   10030.   10040.   10120.   10400.
  PER Q=      7.2      2.0      2.9       .9     75.3       .2      1.3     10.3
   AREA=    103.3     31.3     55.6     21.7    429.9      5.9     47.1    272.3
    VEL=      3.3      3.0      2.5      1.9      8.4      1.3      1.3      1.8
  DEPTH=      2.6      2.1      1.6      1.1      8.6       .6       .6      1.0

CCHV=     .100 CEHV=     .300
*SECNO  .222

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.70


3470 ENCROACHMENT STATIONS=     9860.7   10430.6  TYPE=      1  TARGET=      569.899
      .222      9.19   1781.19   1778.81   1780.48   1781.51       .33       .04       .05   1778.00
    4772.0     799.3    3139.0     833.7     348.1     572.9     586.4      30.8       8.8   1780.00
       .05      2.30      5.48      1.42      .065      .050      .065      .000   1772.00   9860.70
   .002237       10.       10.       10.         3         8         0       .00    569.90  10430.60


    DISTRIBUTION FOR SECNO=       .22          CWSEL=   1781.19

STA=    9861.    9970.   10040.   10120.   10431.
  PER Q=     16.8     65.8      2.4     15.1
   AREA=    348.1    572.9     94.8    491.6
    VEL=      2.3      5.5      1.2      1.5
  DEPTH=      3.2      8.2      1.2      1.6

1490 NH CARD USED
*SECNO  .280
3280 CROSS SECTION       .28 EXTENDED       .09 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.82


3470 ENCROACHMENT STATIONS=    10241.0   10654.0  TYPE=      1  TARGET=      413.000
      .280      7.39   1781.89   1778.08   1780.96   1781.93       .04       .38       .03   1778.00
    3406.0        .0    3406.0        .0        .0    2112.5        .0      50.1      14.0 100000.00
       .13       .00      1.61       .00      .000      .050      .000      .000   1774.50  10241.00
   .000342      470.      465.      460.         3        17         0       .00    413.00  10654.00
```

```
ECNO      DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
          QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
  TIME    VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
  SLOPE   XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=       .28          CWSEL=   1781.89

STA=   10241.   10654.
  PER Q=    100.0
   AREA=   2112.5
    VEL=      1.6
  DEPTH=      5.1

1490 NH CARD USED
*SECNO  .380

3470 ENCROACHMENT STATIONS=    10579.0   10920.0  TYPE=      1  TARGET=      341.000
         ****************************************************
         ***  CROSS SECTION ASSOCIATED WITH JONATHAN WASH AND
         ***  DESERT HILLS--WEST BRANCH.
         ****************************************************
     .380      6.19   1781.99   1778.57   1781.11   1782.06       .07       .12       .01   1776.00
   3406.0     693.0     219.5    2493.5     328.8      91.3    1233.9      62.0      16.4   1776.00
     .17      2.11      2.40      2.02      .050      .050      .050      .000   1775.80  10579.00
  .000588     300.      280.      260.         2        22         0       .00    341.00  10920.00


DISTRIBUTION FOR SECNO=       .38          CWSEL=   1781.99

STA=   10579.   10640.   10655.   10860.   10920.
  PER Q=     20.3      6.4     63.2     10.0
   AREA=    328.8     91.3   1022.7    211.2
    VEL=      2.1      2.4      2.1      1.6
  DEPTH=      5.4      6.1      5.0      3.5

CCHV=     .600 CEHV=     .900
*SECNO  .570
3280 CROSS SECTION       .57 EXTENDED       .17 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .65


3470 ENCROACHMENT STATIONS=     9863.0   10201.4  TYPE=      1  TARGET=      338.400
     .570      5.57   1782.17   1779.62   1781.35   1782.27       .10       .18       .03   1778.00
   3406.0     598.3    1294.7    1513.0     293.8     404.0     709.5      69.4      18.0   1778.00
     .19      2.04      3.20      2.13      .065      .050      .065      .000   1776.60   9863.00
  .001411     210.      210.      210.         2         8         0       .00    338.40  10201.40
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .57 CWSEL= 1782.17

STA=	9863.	9940.	10023.	10041.	10065.	10085.	10105.	10201.
PER Q=	17.6	38.0	4.8	6.4	5.6	5.6	22.1	
AREA=	293.8	404.0	74.1	98.8	84.4	84.4	367.8	
VEL=	2.0	3.2	2.2	2.2	2.2	2.2	2.0	
DEPTH=	3.8	4.9	4.1	4.1	4.2	4.2	3.8	

*SECNO .660

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .61

3470 ENCROACHMENT STATIONS= 9876.5 10129.7 TYPE= 1 TARGET= 253.200

.660	4.95	1783.25	1781.58	1782.49	1783.50	.25	1.09	.13	1780.00
3406.0	330.8	1829.1	1246.2	115.7	388.6	400.6	82.6	21.4	1780.00
.23	2.86	4.71	3.11	.065	.050	.065	.000	1778.30	9876.50
.003844	480.	496.	510.	2	14	0	.00	253.20	10129.70

FLOW DISTRIBUTION FOR SECNO= .66 CWSEL= 1783.25

STA=	9877.	9914.	10009.	10063.	10114.	10130.
PER Q=	9.7	53.7	16.8	15.8	4.0	
AREA=	115.7	388.6	180.4	170.4	49.9	
VEL=	2.9	4.7	3.2	3.2	2.7	
DEPTH=	3.1	4.1	3.3	3.3	3.2	

*SECNO .770

3470 ENCROACHMENT STATIONS= 9927.2 10175.2 TYPE= 1 TARGET= 248.000

.770	5.35	1785.35	1783.81	1784.51	1785.62	.27	2.11	.01	1782.00
3406.0	740.9	753.0	1912.1	214.2	131.0	533.9	92.6	24.2	1782.00
.26	3.46	5.75	3.58	.065	.050	.065	.000	1780.00	9927.20
.004873	500.	495.	480.	2	19	0	.00	248.00	10175.20

FLOW DISTRIBUTION FOR SECNO= .77 CWSEL= 1785.35

STA=	9927.	9991.	10019.	10056.	10094.	10141.	10175.
PER Q=	21.8	22.1	13.1	14.4	17.8	10.8	
AREA=	214.2	131.0	124.2	133.3	164.9	111.5	
VEL=	3.5	5.7	3.6	3.7	3.7	3.3	
DEPTH=	3.4	4.7	3.4	3.5	3.5	3.3	

```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


1490 NH CARD USED
*SECNO  .850

3470 ENCROACHMENT STATIONS=     9952.0   10130.0  TYPE=      1  TARGET=      178.000
      .850      5.25   1787.25   1785.14   1786.24   1787.55       .30      1.90       .03   1782.00
    3406.0     472.6     286.5    2646.9     129.2      57.7     595.8     102.2      26.7   1782.00
       .29      3.66      4.96      4.44      .050      .050      .050      .000   1782.00   9952.00
   .003054      500.      500.      500.         2        14         0       .00    178.00  10130.00


FLOW DISTRIBUTION FOR SECNO=       .85          CWSEL=   1787.25

STA=    9952.    9954.    9970.    9982.    9989.   10000.   10130.
  PER Q=       .3      5.8      4.1      3.7      8.4     77.7
   AREA=      6.9     53.6     39.0     29.7     57.7    595.8
    VEL=      1.5      3.7      3.6      4.2      5.0      4.4
  DEPTH=      3.4      3.3      3.2      4.2      5.2      4.6

*SECNO  .920

3470 ENCROACHMENT STATIONS=     9870.0   10100.0  TYPE=      1  TARGET=      230.000
      .920      5.72   1788.72   1786.47   1787.68   1788.92       .20      1.31       .06   1784.00
    3406.0    1687.3     449.2    1269.5     507.6      88.8     384.2     110.6      28.6   1784.00
       .33      3.32      5.06      3.30      .065      .050      .065      .000   1783.00   9870.00
   .003230      418.      418.      418.         2        23         0       .00    230.00  10100.00


FLOW DISTRIBUTION FOR SECNO=       .92          CWSEL=   1788.72

STA=    9870.    9956.    9992.   10009.   10100.
  PER Q=     31.3     18.3     13.2     37.3
   AREA=    337.6    170.0     88.8    384.2
    VEL=      3.2      3.7      5.1      3.3
  DEPTH=      3.9      4.7      5.2      4.2

*SECNO 1.000
3280 CROSS SECTION      1.00 EXTENDED       .02 FEET


3470 ENCROACHMENT STATIONS=     9850.7   10085.2  TYPE=      1  TARGET=      234.500
        ****************************************************
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     ***  10TH STREET LOCATED BETWEEN 1.00 AND 1.09  ***
     ***************************************************
    1.000      5.32   1790.02   1788.17   1789.22   1790.26       .24      1.30       .04   1786.00
   3406.0    1783.0     767.1     855.9     508.3     144.8     253.9     118.4      30.6   1786.00
      .35      3.51      5.30      3.37      .065      .050      .065      .000   1784.70   9850.70
  .004088      360.      360.      360.         2        14         0       .00    234.50  10085.20


FLOW DISTRIBUTION FOR SECNO=      1.00          CWSEL=   1790.02

STA=    9851.    9902.    9915.    9928.    9957.    9985.   10016.   10085.
  PER Q=     17.7      5.9      5.9     11.6     11.2     22.5     25.1
   AREA=    183.4     53.6     53.6    110.8    107.0    144.8    253.9
    VEL=      3.3      3.8      3.8      3.6      3.6      5.3      3.4
  DEPTH=      3.6      4.1      4.1      3.8      3.8      4.7      3.7

*SECNO 1.090

3470 ENCROACHMENT STATIONS=     9970.0   10200.6  TYPE=      1  TARGET=      230.600
    1.090      4.90   1791.90   1790.19   1791.16   1792.17       .27      1.89       .03   1788.00
   3406.0      49.9     951.2    2405.0      19.1     176.1     667.5     127.3      32.9   1788.00
      .38      2.61      5.40      3.60      .065      .050      .065      .000   1787.00   9970.00
  .004582      430.      435.      440.         2        14         0       .00    230.60  10200.60


FLOW DISTRIBUTION FOR SECNO=      1.09          CWSEL=   1791.90

STA=    9970.    9975.   10015.   10071.   10201.
  PER Q=      1.5     27.9     24.6     46.0
   AREA=     19.1    176.1    218.6    448.9
    VEL=      2.6      5.4      3.8      3.5
  DEPTH=      3.8      4.4      3.9      3.5

*SECNO 1.160

3470 ENCROACHMENT STATIONS=     9950.3   10230.9  TYPE=      1  TARGET=      280.601
    1.160      3.99   1793.49   1791.71   1792.63   1793.69       .20      1.47       .04   1790.00
   3406.0     292.1      983.5    2130.5      97.6     220.6     662.8     134.7      34.9   1790.00
      .41      2.99      4.46      3.21      .065      .050      .065      .000   1789.50   9950.30
  .003881      350.      350.      350.         2        14         0       .00    280.60  10230.90


FLOW DISTRIBUTION FOR SECNO=      1.16          CWSEL=   1793.49

STA=    9950.    9979.   10038.   10084.   10131.   10165.   10231.
  PER Q=      8.6     28.9     15.4     16.1     11.7     19.3
   AREA=     97.6    220.6    160.5    166.3    120.3    215.7
    VEL=      3.0      4.5      3.3      3.3      3.3      3.0
  DEPTH=      3.4      3.7      3.5      3.5      3.5      3.3
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 1.240

3470 ENCROACHMENT STATIONS=     9850.9   10170.6  TYPE=      1  TARGET=      319.699
     1.240      4.16   1795.16   1793.25   1794.22   1795.32       .15      1.60       .03   1791.50
    3406.0    1291.4     582.4    1532.2     449.9     140.8     529.1     145.8      38.1   1791.50
       .45      2.87      4.14      2.90      .065      .050      .065      .000   1791.00   9850.90
   .003144      487.      450.      450.         2        11         0       .00    319.70  10170.60


FLOW DISTRIBUTION FOR SECNO=      1.24          CWSEL=   1795.16

STA=    9851.    9982.   10018.   10171.
  PER Q=     37.9     17.1     45.0
   AREA=    449.9    140.8    529.1
    VEL=      2.9      4.1      2.9
  DEPTH=      3.4      3.9      3.5

*SECNO 1.330
3280 CROSS SECTION      1.33 EXTENDED       .34 FEET


3470 ENCROACHMENT STATIONS=     9900.0   10280.0  TYPE=      1  TARGET=      380.000
     1.330      4.75   1796.35   1793.83   1795.43   1796.43       .08      1.08       .04   1792.00
    3406.0     770.8     164.4    2470.7     350.1      50.0    1082.2     160.4      42.0   1792.00
       .51      2.20      3.29      2.28      .065      .050      .065      .000   1791.60   9900.00
   .001637      450.      465.      510.         2        11         0       .00    380.00  10280.00


FLOW DISTRIBUTION FOR SECNO=      1.33          CWSEL=   1796.35

STA=    9900.    9932.    9993.   10004.   10131.   10229.   10264.   10280.
  PER Q=      6.3     16.3      4.8     32.5     25.1     11.0      4.0
   AREA=    109.7    240.4     50.0    487.8    376.4    151.9     66.0
    VEL=      2.0      2.3      3.3      2.3      2.3      2.5      2.1
  DEPTH=      3.4      3.9      4.5      3.8      3.8      4.3      4.1

*SECNO 1.420
3280 CROSS SECTION      1.42 EXTENDED       .31 FEET
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .40

3470 ENCROACHMENT STATIONS= 9900.0 10330.0 TYPE= 1 TARGET= 430.000

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**********************************
***  END JONATHAN WASH STUDY  ***
**********************************
```

1.420	2.51	1798.31	1797.51	1797.76	1798.55	.24	1.98	.14	1796.00
3406.0	709.9	311.6	2384.5	188.1	57.8	646.6	176.5	47.5	1796.00
.55	3.77	5.39	3.69	.065	.050	.065	.000	1795.80	9900.00
.010188	570.	580.	600.	2	22	0	.00	430.00	10330.00

FLOW DISTRIBUTION FOR SECNO= 1.42 CWSEL= 1798.31

STA=	9900.	9988.	10012.	10062.	10285.	10330.
PER Q=	20.8	9.1	10.8	48.3	10.8	
AREA=	188.1	57.8	100.4	448.0	98.1	
VEL=	3.8	5.4	3.7	3.7	3.8	
DEPTH=	2.1	2.4	2.0	2.0	2.2	

THIS RUN EXECUTED 24JUL92 11:07:58

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1991
****

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

7-24-92 JONATHAN WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	.040	.00	.00	.00	1768.00	8890.00	1775.19	1773.52	1775.33	34.63	5.00	3018.27	1510.64
	.040	.00	.00	.00	1768.00	8890.00	1776.10	1773.81	1776.26	27.61	4.97	2797.88	1691.85
*	.120	500.00	.00	.00	1770.00	4772.00	1776.85	1775.75	1777.15	48.35	5.23	3224.44	686.26
*	.120	500.00	.00	.00	1770.00	4772.00	1777.39	1775.88	1777.76	42.32	5.32	1089.78	733.52
	.180	285.00	.00	.00	1771.60	4772.00	1778.22	1777.37	1778.59	47.89	6.55	1216.69	689.58
	.180	285.00	.00	.00	1771.60	4772.00	1778.58	1777.36	1778.91	37.29	6.02	1205.78	781.47
	.200	110.00	.00	.00	1771.60	4772.00	1778.78	1778.39	1779.42	60.28	7.71	1038.08	614.63
	.200	110.00	.00	.00	1771.60	4772.00	1779.04	1778.31	1779.64	53.02	7.41	970.01	655.34
*	.220	130.00	1780.00	1778.00	1772.00	4772.00	1780.10	1778.54	1780.59	49.90	7.04	1427.52	675.56
*	.220	130.00	1780.00	1778.00	1772.00	4772.00	1780.59	1778.54	1781.43	64.97	8.36	967.17	592.04
*	.222	10.00	.00	.00	1772.00	4772.00	1780.48	1779.40	1780.65	16.77	4.47	2317.79	1165.46
*	.222	10.00	.00	.00	1772.00	4772.00	1781.19	1778.81	1781.51	22.37	5.48	1507.36	1008.86
*	.280	465.00	.00	.00	1774.50	4772.00	1780.96	1777.96	1780.99	3.88	1.52	3904.18	2422.01
*	.280	465.00	.00	.00	1774.50	3406.00	1781.89	1778.08	1781.93	3.42	1.61	2112.46	1840.47
*	.380	280.00	.00	.00	1775.80	4772.00	1781.11	1778.90	1781.16	9.73	2.79	2735.97	1529.48
	.380	280.00	.00	.00	1775.80	3406.00	1781.99	1778.57	1782.06	5.88	2.40	1654.02	1404.05
*	.570	210.00	.00	.00	1776.60	3406.00	1781.35	1779.68	1781.42	15.03	2.93	1858.28	878.61
*	.570	210.00	.00	.00	1776.60	3406.00	1782.17	1779.62	1782.27	14.11	3.20	1407.33	906.85
*	.660	496.00	.00	.00	1778.30	3406.00	1782.49	1781.54	1782.63	39.34	4.16	1330.59	543.04
*	.660	496.00	.00	.00	1778.30	3406.00	1783.25	1781.58	1783.50	38.44	4.71	904.89	549.35
	.770	495.00	.00	.00	1780.00	3406.00	1784.51	1783.48	1784.62	41.48	4.63	1379.43	528.86
	.770	495.00	.00	.00	1780.00	3406.00	1785.35	1783.81	1785.62	48.73	5.75	879.14	487.89

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	.850	500.00	.00	.00	1782.00	3406.00	1786.24	1784.95	1786.36	29.40	4.22	1259.00	628.18
	.850	500.00	.00	.00	1782.00	3406.00	1787.25	1785.14	1787.55	30.54	4.96	782.76	616.36
	.920	418.00	.00	.00	1783.00	3406.00	1787.68	1786.47	1787.82	41.37	4.94	1266.44	529.51
	.920	418.00	.00	.00	1783.00	3406.00	1788.72	1786.47	1788.92	32.30	5.06	980.50	599.30
	1.000	360.00	.00	.00	1784.70	3406.00	1789.22	1788.24	1789.37	44.10	4.86	1247.88	512.91
	1.000	360.00	.00	.00	1784.70	3406.00	1790.02	1788.17	1790.26	40.88	5.30	907.05	532.70
	1.090	435.00	.00	.00	1787.00	3406.00	1791.16	1790.21	1791.31	44.78	4.72	1235.88	508.99
	1.090	435.00	.00	.00	1787.00	3406.00	1791.90	1790.19	1792.17	45.82	5.40	862.78	503.15
	1.160	350.00	.00	.00	1789.50	3406.00	1792.63	1791.55	1792.72	34.67	3.54	1575.84	578.44
	1.160	350.00	.00	.00	1789.50	3406.00	1793.49	1791.71	1793.69	38.81	4.46	980.88	546.76
	1.240	450.00	.00	.00	1791.00	3406.00	1794.22	1793.05	1794.30	33.43	3.55	1613.88	589.08
	1.240	450.00	.00	.00	1791.00	3406.00	1795.16	1793.25	1795.32	31.44	4.14	1119.90	607.44
	1.330	465.00	.00	.00	1791.60	3406.00	1795.43	1793.81	1795.48	18.15	2.98	1999.00	799.38
	1.330	465.00	.00	.00	1791.60	3406.00	1796.35	1793.83	1796.43	16.37	3.29	1482.28	841.78
*	1.420	580.00	.00	.00	1795.80	3406.00	1797.76	1797.35	1797.92	147.74	5.48	1119.29	280.21
*	1.420	580.00	.00	.00	1795.80	3406.00	1798.31	1797.51	1798.55	101.88	5.39	892.50	337.45

-92 JONATHAN WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	.040	8890.00	1775.19	.00	.00	.00	1066.79	.00
	.040	8890.00	1776.10	.91	.00	.91	700.00	.00
*	.120	4772.00	1776.85	.00	1.66	.00	1590.01	500.00
*	.120	4772.00	1777.39	.54	1.29	.54	304.00	500.00
	.180	4772.00	1778.22	.00	1.36	.00	588.42	285.00
	.180	4772.00	1778.58	.36	1.19	.36	350.00	285.00
	.200	4772.00	1778.78	.00	.56	.00	589.42	110.00
	.200	4772.00	1779.04	.26	.46	.26	350.00	110.00
*	.220	4772.00	1780.10	.00	1.32	.00	1189.27	130.00
*	.220	4772.00	1780.59	.49	1.55	.49	529.91	130.00
*	.222	4772.00	1780.48	.00	.38	.00	1307.46	10.00
*	.222	4772.00	1781.19	.71	.60	.71	569.90	10.00
*	.280	4772.00	1780.96	.00	.48	.00	1255.41	465.00
*	.280	3406.00	1781.89	.92	.70	.92	413.00	465.00
	.380	4772.00	1781.11	.00	.15	.00	1360.69	280.00
	.380	3406.00	1781.99	.88	.10	.88	341.00	280.00
*	.570	3406.00	1781.35	.00	.24	.00	788.40	210.00
*	.570	3406.00	1782.17	.82	.18	.82	338.40	210.00
*	.660	3406.00	1782.49	.00	1.14	.00	774.09	496.00
*	.660	3406.00	1783.25	.76	1.08	.76	253.20	496.00
	.770	3406.00	1784.51	.00	2.02	.00	817.28	495.00
	.770	3406.00	1785.35	.85	2.11	.85	248.00	495.00
	.850	3406.00	1786.24	.00	1.73	.00	669.61	500.00
	.850	3406.00	1787.25	1.01	1.90	1.01	178.00	500.00
	.920	3406.00	1787.68	.00	1.45	.00	678.11	418.00
	.920	3406.00	1788.72	1.04	1.47	1.04	230.00	418.00
	1.000	3406.00	1789.22	.00	1.54	.00	713.82	360.00
	1.000	3406.00	1790.02	.80	1.30	.80	234.50	360.00
	1.090	3406.00	1791.16	.00	1.94	.00	688.10	435.00
	1.090	3406.00	1791.90	.75	1.88	.75	230.60	435.00
	1.160	3406.00	1792.63	.00	1.47	.00	958.04	350.00
	1.160	3406.00	1793.49	.86	1.58	.86	280.60	350.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1.240	3406.00	1794.22	.00	1.59	.00	988.04	450.00
	1.240	3406.00	1795.16	.95	1.68	.95	319.70	450.00
	1.330	3406.00	1795.43	.00	1.21	.00	1058.09	465.00
	1.330	3406.00	1796.35	.92	1.19	.92	380.00	465.00
*	1.420	3406.00	1797.76	.00	2.33	.00	1060.17	580.00
*	1.420	3406.00	1798.31	.55	1.96	.55	430.00	580.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=      .120  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .120  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .220  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .220  PROFILE=  1  WSEL ASSUMED BASED ON MIN DIFF
CAUTION SECNO=      .220  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .220  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .220  PROFILE=  2  WSEL ASSUMED BASED ON MIN DIFF
CAUTION SECNO=      .220  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .222  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .222  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .280  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .280  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .380  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .570  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .570  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .660  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .660  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.420  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.420  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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dway width summary: 7-24-92 JONATHAN WASH
ile No. 2

Section Number	Elevation Increase	Top Width	Left Encroach Station	Left Sta Distance From Center	Center Station	Right Sta Distance From Center	Right Encroach Station
.040	.91	700.00	9700.00	299.41	9999.41	400.59	10400.00
.120	.54	304.00	10657.70	77.30	10735.00	226.70	10961.70
.180	.36	350.00	9890.00	122.50	10012.50	227.50	10240.00
.200	.26	350.00	9920.00	80.00	10000.00	270.00	10270.00
.220	.49	529.91	9870.09	134.86	10004.95	395.05	10400.00
.222	.71	569.90	9860.70	144.30	10005.00	425.60	10430.60
.280	.92	413.00	10241.00	206.50	10447.50	206.50	10654.00
.380	.88	341.00	10579.00	68.50	10647.50	272.50	10920.00
.570	.82	338.40	9863.00	118.50	9981.50	219.90	10201.40
.660	.76	253.20	9876.50	85.00	9961.50	168.20	10129.70
.770	.85	248.00	9927.20	77.80	10005.00	170.20	10175.20
.850	1.01	178.00	9952.00	42.50	9994.50	135.50	10130.00
.920	1.04	230.00	9870.00	130.50	10000.50	99.50	10100.00
1.000	.80	234.50	9850.70	149.80	10000.50	84.70	10085.20
1.090	.75	230.60	9970.00	25.00	9995.00	205.60	10200.60
1.160	.86	280.60	9950.30	58.20	10008.50	222.40	10230.90
1.240	.95	319.70	9850.90	149.10	10000.00	170.60	10170.60
1.330	.92	380.00	9900.00	98.50	9998.50	281.50	10280.00
1.420	.55	430.00	9900.00	100.00	10000.00	330.00	10330.00

MESQUITE TANK WASH

THIS RUN EXECUTED 22JUN92 16:35:20

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.0;  February 1991
************************************


THIS IS AN ARCHIVAL RUN ALL DATA AND RESULTS ARE SAVED ON UNIT   96

AC
AC AERIAL MAPPING:  KENNEY AERIAL MAPPING CO. -- DATE  JULY-NOV. 1990
AC                  1130 W. FILLMORE PHX. AZ. 85007
AC                  PHONE (602) 258-6471   ELLIS HYDE
AC
AC SURVEY CONTROL:  McCUEN GPS INC. -- DATE  JUNE 1990
AC                  8948 W. CALLE LEJOS PEORIA AZ.
AC                  PHONE (602) 995-8445   GLEN McCUEN R.L.S.
AC
AC HYDROLOGY & FIS: JERRY R. JONES & ASSOC. -- DATE FEB 89-JUNE 91
AC                  2929 E. CAMELBACK ROAD  SUITE 240
AC                  PHX. AZ. 85016
AC                  PHONE (602) 956-9850   ROGER BAELE P.E.
AC
AC                  MESQUITE TANK WASH
AC
AC  ACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
AC  CD 88-66 -- FILENAME MESQUITE.DAT        JJA NO. 290-018
T3 REV.  6-22-92  MESQUITE TANK WASH -- 100 YEAR FLOW WITHOUT ENCROACHMENT

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        5        0        0        0        0        0      1000    1657.1     0

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0       -1        0        0        0       -1        0        0        15


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    115       150       200        54         1

NC     0.07      0.07      0.06       0.1       0.3
ET                3.1    9850.8   10050.3
        ************************************************************************
                PONDING FROM CAVE BUTTES RESERVOIR ELEVATION 1657.1
        ************************************************************************
X1     0.38        13   9946.54  10030.09       0.0       0.0       0.0       0.0       0.0       0.0
GR   1664.0   9500.00   1664.00   9611.41   1662.00   9711.46   1660.00   9755.71   1658.00   9803.26
GR   1656.0   9843.20   1654.00   9946.54   1654.00  10030.09   1656.00  10113.04   1658.00  10134.59
GR   1660.0  10160.89   1660.00  10187.89   1660.00  10500.00
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ET		3.1	9930.8	10030						
X1	0.47	13	9986.88	10006.12	460	520	500	0.0	0.0	0.0
GR	1662.0	9500.00	1662.00	9564.91	1660.00	9903.16	1658.00	9929.92	1656.00	9986.88
GR	1656.0	10006.12	1658.00	10028.81	1660.00	10057.26	1662.00	10082.80	1664.00	10103.62
GR	1666.0	10128.36	1668.00	10184.23	1668.00	10500.00				
ET		3.1	9963.8	10025						
X1	0.57	15	9986.11	10020.52	500	500	500	0.0	0.0	0.0
GR	1668.0	9500.00	1668.00	9604.45	1666.00	9785.01	1664.00	9891.04	1662.00	9943.51
GR	1660.0	9986.11	1660.00	10020.52	1662.00	10045.56	1664.00	10064.50	1666.00	10082.19
GR	1668.0	10103.93	1670.00	10122.56	1672.00	10154.15	1672.00	10438.20	1672.00	10500.00
ET		3.1	9963	10029.9						
X1	0.66	15	9985.39	10020.84	450	560	500	0.0	0.0	0.0
GR	1670.0	9500.00	1670.00	9676.74	1670.00	9876.51	1668.00	9899.90	1666.00	9952.50
GR	1664.0	9985.39	1664.00	10020.84	1666.00	10060.61	1668.00	10080.14	1670.00	10099.68
GR	1672.0	10119.76	1674.00	10144.83	1676.00	10178.94	1678.00	10252.79	1678.00	10500.00
ET		3.1	9970.7	10055.6						
X1	0.76	12	9939.67	10091.66	450	500	500	0.0	0.0	0.0
GR	1672.0	9500.00	1672.00	9541.76	1672.00	9871.80	1670.00	9939.67	1670.00	10091.66
GR	1672.0	10201.99	1672.00	10234.64	1672.00	10301.63	1674.00	10372.38	1676.00	10450.31
GR	1678.0	10487.81	1678.00	10500.00						
ET		3.1	9982.5	10060.9						
X1	0.85	12	9982.55	10025.72	540	460	500	0.0	0.0	0.0
GR	1678.0	9500.00	1678.00	9658.83	1678.00	9879.04	1676.00	9923.44	1674.00	9954.58
GR	1672.0	9982.55	1672.00	10025.72	1674.00	10092.78	1676.00	10194.57	1678.00	10275.56
GR	1678.0	10427.17	1678.00	10500.00						
ET		3.1	9977.5	10060.7						
X1	0.95	13	9981.66	10025.31	540	450	500	0.0	0.0	0.0
GR	1682.0	9500.00	1682.00	9712.81	1680.00	9791.50	1678.00	9909.04	1676.00	9953.59
GR	1674.0	9981.66	1674.00	10025.31	1676.00	10060.73	1678.00	10086.95	1680.00	10144.03
GR	1682.0	10244.46	1682.00	10486.92	1682.00	10500.00				
ET		3.1	9940	10020						
X1	1.04	11	9944.03	10049.87	500	500	500	0.0	0.0	0.0
GR	1686.0	9500.00	1686.00	9677.65	1684.00	9847.53	1682.00	9898.43	1680.00	9944.03
GR	1680.0	10049.87	1682.00	10078.00	1684.00	10117.57	1686.00	10178.58	1686.00	10436.91
GR	1686.0	10500.00								
ET		3.1	9915	10006						
X1	1.13	22	9920.97	10036.06	520	480	500	0.0	0.0	0.0
GR	1692.0	9500.00	1692.00	9727.91	1692.00	9728.29	1690.00	9791.72	1690.00	9792.02
GR	1688.0	9823.23	1688.00	9823.64	1686.00	9865.65	1686.00	9865.93	1684.00	9920.97
GR	1684.0	9921.04	1684.00	10036.06	1684.00	10036.49	1686.00	10060.25	1686.00	10060.56
GR	1688.0	10100.22	1688.00	10100.86	1688.00	10303.45	1688.00	10304.14	1688.00	10477.78
GR	1688.0	10478.13	1688.00	10500.00						

ET		3.1	9961.2	10007						
X1	1.23	19	9970.28	10001.58	440	530	500	0.0	0.0	0.0
GR	1694.0	9500.00	1694.00	9708.55	1694.00	9709.35	1692.00	9750.33	1692.00	9761.63
GR	1690.0	9768.11	1690.00	9904.07	1688.00	9935.99	1686.00	9970.28	1686.00	10001.58
GR	1688.0	10035.17	1690.00	10056.05	1692.00	10075.63	1694.00	10099.18	1694.00	10196.86
GR	1692.0	10324.13	1692.00	10333.59	1694.00	10353.49	1694.00	10500.00		
ET		3.1	9934	10008.8						
X1	1.32	13	9934.00	10008.76	480	500	500	0.0	0.0	0.0
GR	1698.0	9500.00	1698.00	9792.17	1696.00	9829.57	1694.00	9870.04	1692.00	9934.00
GR	1692.0	10008.76	1694.00	10037.31	1696.00	10063.28	1698.00	10095.70	1700.00	10145.09
GR	1700.0	10379.90	1700.00	10443.46	1700.00	10500.00				
ET		3.1	9949.2	10032						
X1	1.42	12	9949.22	10062.52	520	480	500	0.0	0.0	0.0
GR	1702.0	9500.00	1702.00	9817.50	1700.00	9875.42	1698.00	9911.77	1696.00	9949.22
GR	1696.0	10062.52	1698.00	10106.12	1700.00	10155.78	1702.00	10201.84	1704.00	10274.41
GR	1704.0	10377.29	1704.00	10500.00						
ET		3.1	9991.4	10048						
X1	1.52	16	9991.41	10017.32	500	500	500	0.0	0.0	0.0
GR	1708.0	9500.00	1708.00	9805.86	1706.00	9883.23	1704.00	9921.50	1702.00	9945.21
GR	1700.0	9968.43	1698.00	9991.41	1698.00	9991.41	1698.00	10017.32	1700.00	10093.02
GR	1702.0	10156.55	1704.00	10212.21	1706.00	10277.29	1708.00	10337.82	1710.00	10445.78
GR	1710.0	10500.00								
ET		3.1	9972.7	10053.9						
X1	1.61	16	9972.73	10053.95	530	460	500	0.0	0.0	0.0
GR	1716.0	9500.00	1716.00	9521.41	1716.00	9536.24	1714.00	9745.08	1712.00	9810.65
GR	1710.0	9891.39	1708.00	9917.38	1706.00	9944.44	1704.00	9972.73	1704.00	10053.95
GR	1706.0	10244.56	1708.00	10286.70	1710.00	10314.04	1712.00	10359.75	1714.00	10467.19
GR	1714.0	10500.00								
ET		3.1	9995.7	10067.6						
X1	1.70	17	9995.74	10067.65	470	540	500	0.0	0.0	0.0
GR	1718.0	9500.00	1718.00	9533.57	1716.00	9717.21	1714.00	9822.32	1712.00	9870.19
GR	1710.0	9907.30	1708.00	9995.74	1708.00	10067.65	1710.00	10130.82	1712.00	10208.40
GR	1714.0	10245.49	1716.00	10269.77	1718.00	10318.05	1720.00	10421.28	1720.00	10445.61
GR	1720.0	10487.98	1720.00	10500.00						
ET		3.1	9936.8	10025						
X1	1.80	12	9966.77	10025.52	390	590	500	0.0	0.0	0.0
GR	1718.0	9500.00	1718.00	9815.71	1716.00	9899.03	1714.00	9931.88	1712.00	9966.77
GR	1712.0	10025.52	1714.00	10114.02	1716.00	10229.64	1718.00	10315.44	1720.00	10382.70
GR	1722.0	10469.29	1722.00	10500.00						
ET		3.1	9948	10021.6						
X1	1.89	16	9978.34	10020.65	550	420	500	0.0	0.0	0.0
GR	1724.0	9500.00	1724.00	9595.95	1726.00	9758.05	1726.00	9791.38	1724.00	9867.72
GR	1722.0	9892.99	1720.00	9917.61	1718.00	9946.27	1716.00	9978.34	1714.00	10003.76
GR	1714.0	10008.60	1716.00	10020.65	1718.00	10125.98	1720.00	10383.58	1722.00	10430.23
GR	1722.0	10500.00								

```
E1                3.1     9930.9    10015.3
        ************************************************************************
                LAST STATION
        ************************************************************************
X1     1.99        11    9948.99    9990.29       500       500       500       0.0       0.0       0.0
GR   1726.0   9500.00    1726.00    9683.67   1724.00   9743.79   1722.00   9846.41   1720.00   9948.99
GR   1720.0   9990.29    1722.00   10062.51   1724.00  10093.49   1726.00  10140.42   1728.00  10460.16
GR   1728.0  10500.00
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV= .100 CEHV= .300
*SECNO .380

****
PONDING FROM CAVE BUTTES RESERVOIR ELEVATION 1657.1
****

.380	3.10	1657.10	1655.35	1657.10	1657.14	.04	.00	.00	1654.00
1000.0	280.7	495.6	223.7	229.1	259.0	180.7	.0	.0	1654.00
.00	1.23	1.91	1.24	.070	.060	.070	.000	1654.00	9821.23
.001320	0.	0.	0.	0	13	0	.00	303.66	10124.89

FLOW DISTRIBUTION FOR SECNO= .38 CWSEL= 1657.10

STA=	9821.	9843.	9947.	10030.	10113.	10125.
PER Q=	.6	27.4	49.6	22.0	.3	
AREA=	12.1	217.0	259.0	174.2	6.5	
VEL=	.5	1.3	1.9	1.3	.5	
DEPTH=	.5	2.1	3.1	2.1	.5	

*SECNO .470

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .19

.470	2.47	1658.47	1658.44	.00	1659.15	.68	1.81	.19	1656.00
1000.0	428.1	400.3	171.6	84.7	47.4	34.7	4.7	2.3	1656.00
.02	5.05	8.45	4.95	.070	.060	.070	.000	1656.00	9923.74
.035026	460.	500.	520.	0	15	0	.00	111.64	10035.38

FLOW DISTRIBUTION FOR SECNO= .47 CWSEL= 1658.47

STA=	9924.	9930.	9987.	10006.	10029.	10035.
PER Q=	.2	42.6	40.0	16.9	.2	
AREA=	1.4	83.3	47.4	33.2	1.5	
VEL=	1.5	5.1	8.5	5.1	1.5	
DEPTH=	.2	1.5	2.5	1.5	.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .570

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.91

.570	3.64	1663.64	1662.26	.00	1663.79	.15	4.59	.05	1660.00
1000.0	337.4	474.2	188.4	148.3	125.5	79.1	7.7	3.9	1660.00
.07	2.28	3.78	2.38	.070	.060	.070	.000	1660.00	9900.32
.004149	500.	500.	500.	4	11	0	.00	160.83	10061.15

FLOW DISTRIBUTION FOR SECNO= .57 CWSEL= 1663.64

STA=	9900.	9944.	9986.	10021.	10046.	10061.
PER Q=	4.3	29.5	47.4	17.3	1.5	
AREA=	35.6	112.7	125.5	66.3	12.8	
VEL=	1.2	2.6	3.8	2.6	1.2	
DEPTH=	.8	2.6	3.6	2.6	.8	

*SECNO .660

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .59

.660	2.80	1666.80	1666.21	.00	1667.12	.32	3.27	.05	1664.00
1000.0	214.7	534.7	250.6	68.0	99.5	75.1	11.1	5.6	1664.00
.10	3.16	5.37	3.34	.070	.060	.070	.000	1664.00	9931.27
.011882	450.	500.	560.	4	14	0	.00	137.23	10068.49

FLOW DISTRIBUTION FOR SECNO= .66 CWSEL= 1666.80

STA=	9931.	9953.	9985.	10021.	10061.	10068.
PER Q=	1.1	20.4	53.5	24.7	.4	
AREA=	8.6	59.4	99.5	71.9	3.2	
VEL=	1.3	3.4	5.4	3.4	1.3	
DEPTH=	.4	1.8	2.8	1.8	.4	

*SECNO .760

.760	1.68	1671.68	1671.02	.00	1671.81	.13	4.67	.02	1670.00
1000.0	80.1	789.6	130.3	48.1	255.9	78.2	14.6	8.0	1670.00
.15	1.67	3.09	1.67	.070	.060	.070	.000	1670.00	9882.54
.007751	450.	500.	500.	4	18	0	.00	302.00	10184.54

[illegible]ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
[illegible]Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .76 CWSEL= 1671.68

STA=	9883.	9940.	10092.	10185.
PER Q=	8.0	79.0	13.0	
AREA=	48.1	255.9	78.2	
VEL=	1.7	3.1	1.7	
DEPTH=	.8	1.7	.8	

*SECNO .850

.850	2.96	1674.96	1673.93	.00	1675.12	.16	3.30	.01	1672.00
1000.0	145.9	497.5	356.6	62.0	127.8	155.0	18.7	10.9	1672.00
.19	2.35	3.89	2.30	.070	.060	.070	.000	1672.00	9939.62
.005809	540.	500.	460.	4	8	0	.00	202.07	10141.69

FLOW DISTRIBUTION FOR SECNO= .85 CWSEL= 1674.96

STA=	9940.	9955.	9983.	10026.	10093.	10142.
PER Q=	.7	13.9	49.8	33.3	2.3	
AREA=	7.2	54.8	127.8	131.5	23.5	
VEL=	1.0	2.5	3.9	2.5	1.0	
DEPTH=	.5	2.0	3.0	2.0	.5	

[illegible]NO .950

.950	3.44	1677.44	1676.12	.00	1677.60	.16	2.48	.00	1674.00
1000.0	201.0	562.9	236.1	91.7	150.2	100.1	22.6	12.9	1674.00
.24	2.19	3.75	2.36	.070	.060	.070	.000	1674.00	9921.47
.004403	540.	500.	450.	3	19	0	.00	158.16	10079.63

FLOW DISTRIBUTION FOR SECNO= .95 CWSEL= 1677.44

STA=	9921.	9954.	9982.	10025.	10061.	10080.
PER Q=	2.6	17.5	56.3	22.1	1.5	
AREA=	23.2	68.5	150.2	86.5	13.6	
VEL=	1.1	2.6	3.7	2.6	1.1	
DEPTH=	.7	2.4	3.4	2.4	.7	

*SECNO 1.040

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .43

1.040	1.59	1681.59	1681.32	.00	1681.96	.38	4.30	.07	1680.00
1000.0	80.2	870.3	49.4	28.7	167.9	17.7	25.8	14.7	1680.00
.26	2.80	5.18	2.79	.070	.060	.070	.000	1680.00	9907.87
.023685	500.	500.	500.	3	18	0	.00	164.31	10072.18

FLOW DISTRIBUTION FOR SECNO= 1.04 CWSEL= 1681.59

STA=	9908.	9944.	10050.	10072.
PER Q=	8.0	87.0	4.9	
AREA=	28.7	167.9	17.7	
VEL=	2.8	5.2	2.8	
DEPTH=	.8	1.6	.8	

*SECNO 1.130

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.26

1.130	2.34	1686.34	1685.25	.00	1686.46	.12	4.47	.03	1684.00
1000.0	132.1	808.0	59.9	75.8	270.6	34.5	29.2	16.9	1684.00
.32	1.74	2.99	1.74	.070	.060	.070	.000	1684.00	9858.27
.004648	520.	500.	480.	3	15	0	.00	209.26	10067.53

FLOW DISTRIBUTION FOR SECNO= 1.13 CWSEL= 1686.34

STA=	9858.	9866.	9921.	10036.	10036.	10060.	10068.
PER Q=	.1	13.2	80.8	.3	5.7	.1	
AREA=	1.3	74.5	270.6	1.0	32.1	1.3	
VEL=	.5	1.8	3.0	2.6	1.8	.5	
DEPTH=	.2	1.3	2.4	2.4	1.4	.2	

*SECNO 1.230

1.230	3.21	1689.21	1688.30	.00	1689.46	.25	2.96	.04	1686.00
1000.0	261.7	487.1	251.1	87.8	100.7	82.2	32.9	18.8	1686.00
.35	2.98	4.84	3.06	.070	.060	.070	.000	1686.00	9916.58
.008041	440.	500.	530.	4	5	0	.00	131.29	10047.87

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.23 CWSEL= 1689.21

STA=	9917.	9936.	9970.	10002.	10035.	10048.
PER Q=	1.6	24.6	48.7	24.1	1.1	
AREA=	11.8	76.0	100.7	74.4	7.7	
VEL=	1.4	3.2	4.8	3.2	1.4	
DEPTH=	.6	2.2	3.2	2.2	.6	

*SECNO 1.320

1.320	2.13	1694.13	1693.56	.00	1694.39	.27	4.93	.01	1692.00
1000.0	185.9	731.2	82.9	72.2	159.0	32.3	35.9	20.5	1692.00
.38	2.58	4.60	2.57	.070	.060	.070	.000	1692.00	9867.49
.012616	480.	500.	500.	4	11	0	.00	171.46	10038.95

FLOW DISTRIBUTION FOR SECNO= 1.32 CWSEL= 1694.13

STA=	9867.	9934.	10009.	10037.	10039.
PER Q=	18.6	73.1	8.3	.0	
AREA=	72.2	159.0	32.2	.1	
VEL=	2.6	4.6	2.6	.4	
DEPTH=	1.1	2.1	1.1	.1	

SECNO 1.420

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.52

1.420	2.26	1698.26	1697.26	.00	1698.40	.14	3.99	.01	1696.00
1000.0	87.2	811.3	101.6	48.0	256.5	56.0	39.5	22.7	1696.00
.43	1.82	3.16	1.81	.070	.060	.070	.000	1696.00	9906.98
.005487	520.	500.	480.	5	14	0	.00	205.69	10112.67

FLOW DISTRIBUTION FOR SECNO= 1.42 CWSEL= 1698.26

STA=	9907.	9912.	9949.	10063.	10106.	10113.
PER Q=	.0	8.7	81.1	10.1	.0	
AREA=	.6	47.3	256.5	55.1	.9	
VEL=	.4	1.8	3.2	1.8	.4	
DEPTH=	.1	1.3	2.3	1.3	.1	

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 1.520
    1.520      3.18   1701.18   1700.22       .00   1701.35       .17      2.94       .01   1698.00
   1000.0     152.0     351.7     496.3      58.4      82.5     187.7      43.4      24.9   1698.00
      .48      2.60      4.26      2.64      .070      .060      .070      .000   1698.00   9954.67
  .006319      500.      500.      500.         3         8         0       .00    175.98  10130.66


FLOW DISTRIBUTION FOR SECNO=      1.52          CWSEL=   1701.18

STA=    9955.    9968.    9991.   10017.   10093.   10131.
  PER Q=      1.0     14.2     35.2     47.0      2.7
   AREA=      8.1     50.2     82.5    165.4     22.3
    VEL=      1.2      2.8      4.3      2.8      1.2
  DEPTH=       .6      2.2      3.2      2.2       .6

*SECNO 1.610

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .64

    1.610      1.72   1705.72   1705.32       .00   1705.94       .22      4.57       .02   1704.00
   1000.0     49.6     615.5     334.9      20.9     139.5     140.5      46.9      27.3   1704.00
      .51      2.38      4.41      2.38      .070      .060      .070      .000   1704.00   9948.44
  .015439      530.      500.      460.         4        18         0       .00    269.18  10217.62


FLOW DISTRIBUTION FOR SECNO=      1.61          CWSEL=   1705.72

STA=    9948.    9973.   10054.   10218.
  PER Q=      5.0     61.6     33.5
   AREA=     20.9    139.5    140.5
    VEL=      2.4      4.4      2.4
  DEPTH=       .9      1.7       .9

*SECNO 1.700

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.62

    1.700      2.37   1710.37   1709.48       .00   1710.50       .13      4.56       .01   1708.00
   1000.0     245.6     578.0     176.4     122.9     170.8      89.5      50.9      30.3   1708.00
      .56      2.00      3.39      1.97      .070      .060      .070      .000   1708.00   9900.35
  .005897      470.      500.      540.         4        11         0       .00    245.00  10145.35
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.70 CWSEL= 1710.37

STA=	9900.	9907.	9996.	10068.	10131.	10145.
PER Q=	.1	24.5	57.8	17.5	.1	
AREA=	1.3	121.6	170.8	86.8	2.7	
VEL=	.5	2.0	3.4	2.0	.5	
DEPTH=	.2	1.4	2.4	1.4	.2	

*SECNO 1.800

1.800	2.26	1714.26	1713.65	.00	1714.49	.23	3.95	.03	1712.00
1000.0	114.4	595.0	290.7	44.4	132.6	113.1	54.8	32.9	1712.00
.60	2.58	4.49	2.57	.070	.060	.070	.000	1712.00	9927.66
.011088	390.	500.	590.	4	15	0	.00	201.21	10128.87

FLOW DISTRIBUTION FOR SECNO= 1.80 CWSEL= 1714.26

STA=	9928.	9932.	9967.	10026.	10114.	10129.
PER Q=	.0	11.4	59.5	29.0	.1	
AREA=	.5	43.9	132.6	111.2	1.9	
VEL=	.6	2.6	4.5	2.6	.6	
DEPTH=	.1	1.3	2.3	1.3	.1	

*SECNO 1.890

1.890	4.28	1718.28	1717.43	.00	1718.50	.22	4.01	.00	1716.00
1000.0	82.8	643.7	273.6	41.6	143.6	139.8	58.1	35.2	1716.00
.64	1.99	4.48	1.96	.070	.060	.070	.000	1714.00	9942.26
.006470	550.	500.	420.	3	14	0	.00	219.74	10162.00

FLOW DISTRIBUTION FOR SECNO= 1.89 CWSEL= 1718.28

STA=	9942.	9946.	9978.	10021.	10126.	10162.
PER Q=	.0	8.2	64.4	27.1	.2	
AREA=	.6	41.0	143.6	134.8	5.0	
VEL=	.5	2.0	4.5	2.0	.5	
DEPTH=	.1	1.3	3.4	1.3	.1	

*SECNO 1.990

****

LAST STATION

****

1.990	2.31	1722.31	1721.70	.00	1722.49	.18	3.99	.00	1720.00
1000.0	344.1	414.2	241.6	136.9	95.4	95.4	61.9	37.8	1720.00
.68	2.51	4.34	2.53	.070	.060	.070	.000	1720.00	9830.50
.010064	500.	500.	500.	4	19	0	.00	236.81	10067.31

FLOW DISTRIBUTION FOR SECNO= 1.99 CWSEL= 1722.31

STA=	9831.	9846.	9949.	9990.	10063.	10067.
PER Q=	.2	34.3	41.4	24.1	.0	
AREA=	2.5	134.4	95.4	94.6	.7	
VEL=	.6	2.5	4.3	2.5	.6	
DEPTH=	.2	1.3	2.3	1.3	.2	

T1 APACHE WASH FLOOD INSURANCE STUDY - FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
T2 FCD 88-66 -- FILENAME MESQUITE.DAT JJA NO. 290-018 (ENCROACHMENT RUN)
T3 REV. 6-22-92 MESQUITE TANK WASH -- 100 YEAR FLOW FLOODWAY WITH ENCROACHMENT

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0	0	0	1000	1657.1	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1	0	0	0	-1	0	0	15

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*PROF 2

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS



CCHV=     .100 CEHV=     .300
*SECNO  .380

3470 ENCROACHMENT STATIONS=     9850.8   10050.3  TYPE=      1  TARGET=      199.500
      ***********************************************************************
              PONDING FROM CAVE BUTTES RESERVOIR ELEVATION 1657.1
      ***********************************************************************
     .380      3.10   1657.10   1655.35   1657.10   1657.16       .06       .00       .00   1654.00
   1000.0     315.9     586.3      97.8     208.1     259.0      57.7        .0        .0   1654.00
     .00      1.52      2.26      1.69      .070      .060      .070      .000   1654.00   9850.80
  .001848       0.        0.        0.         0        13         0       .00    199.50  10050.30


FLOW DISTRIBUTION FOR SECNO=       .38          CWSEL=   1657.10

STA=    9851.    9947.   10030.   10050.
 PER Q=     31.6     58.6      9.8
 AREA=     208.1    259.0     57.7
  VEL=       1.5      2.3      1.7
DEPTH=       2.2      3.1      2.9

*SECNO  .470

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .33


3470 ENCROACHMENT STATIONS=     9930.8   10030.0  TYPE=      1  TARGET=       99.200
     .470      2.89   1658.89   1658.41   1658.47   1659.31       .42      2.04       .11   1656.00
   1000.0     451.1     365.5     183.4     106.9      55.6      43.9       4.1       1.7   1656.00
     .03      4.22      6.57      4.18      .070      .060      .070      .000   1656.00   9930.80
  .017098     460.      500.      520.         3        15         0       .00     99.20  10030.00


FLOW DISTRIBUTION FOR SECNO=       .47          CWSEL=   1658.89

STA=    9931.    9987.   10006.   10029.   10030.
 PER Q=     45.1     36.6     18.2       .2
 AREA=     106.9     55.6     42.9      1.0
  VEL=       4.2      6.6      4.2      1.8
DEPTH=       1.9      2.9      1.9       .8
```

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .570

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.63


3470 ENCROACHMENT STATIONS=     9963.8   10025.0  TYPE=      1  TARGET=      61.200
      .570      3.96   1663.96   1662.28   1663.64   1664.28       .32      4.96       .01   1660.00
    1000.0     274.1     678.6      47.3      76.6     136.1      16.9       6.6       2.6   1660.00
       .06      3.58      4.99      2.79      .070      .060      .070      .000   1660.00   9963.80
   .006474      500.      500.      500.         3        15         0       .00     61.20  10025.00


FLOW DISTRIBUTION FOR SECNO=       .57          CWSEL=   1663.96

STA=    9964.    9986.   10021.   10025.
  PER Q=     27.4     67.9      4.7
   AREA=     76.6    136.1     16.9
    VEL=      3.6      5.0      2.8
  DEPTH=      3.4      4.0      3.8

*SECNO  .660

 ENCROACHMENT STATIONS=     9963.0   10029.9  TYPE=      1  TARGET=      66.900
      .660      3.54   1667.54   1666.24   1666.80   1667.89       .35      3.60       .01   1664.00
    1000.0     234.7     659.1     106.2      64.0     125.5      30.0       9.1       3.3   1664.00
       .09      3.67      5.25      3.54      .070      .060      .070      .000   1664.00   9963.00
   .008328      450.      500.      560.         3        11         0       .00     66.90  10029.90


FLOW DISTRIBUTION FOR SECNO=       .66          CWSEL=   1667.54

STA=    9963.    9985.   10021.   10030.
  PER Q=     23.5     65.9     10.6
   AREA=     64.0    125.5     30.0
    VEL=      3.7      5.3      3.5
  DEPTH=      2.9      3.5      3.3

*SECNO  .760

3470 ENCROACHMENT STATIONS=     9970.7   10055.6  TYPE=      1  TARGET=      84.899
      .760      2.46   1672.46   1671.62   1671.68   1672.82       .36      4.93       .00 100000.00
    1000.0        .0    1000.0        .0        .0     208.7        .0      11.5       4.2 100000.00
       .12       .00      4.79       .00      .000      .060      .000      .000   1670.00   9970.70
   .012157      450.      500.      500.         2        14         0       .00     84.90  10055.60
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .76 CWSEL= 1672.46

STA= 9971. 10092.
PER Q= 100.0
AREA= 208.7
VEL= 4.8
DEPTH= 2.5

*SECNO .850

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.72

3470 ENCROACHMENT STATIONS= 9982.5 10060.9 TYPE= 1 TARGET= 78.400

.850	3.88	1675.88	1674.01	1674.96	1676.08	.20	3.25	.02	1672.00
1000.0	.0	657.6	342.3	.2	167.5	118.0	14.3	5.1	1672.00
.15	.18	3.93	2.90	.070	.060	.070	.000	1672.00	9982.50
.004122	540.	500.	460.	3	15	0	.00	78.40	10060.90

FLOW DISTRIBUTION FOR SECNO= .85 CWSEL= 1675.88

STA= 9983. 9983. 10026. 10061.
PER Q= .0 65.8 34.2
AREA= .2 167.5 118.0
VEL= .2 3.9 2.9
DEPTH= 3.9 3.9 3.4

*SECNO .950

3470 ENCROACHMENT STATIONS= 9977.5 10060.7 TYPE= 1 TARGET= 83.200

.950	3.91	1677.91	1676.17	1677.44	1678.12	.21	2.03	.00	1674.00
1000.0	34.5	684.8	280.7	15.6	170.7	103.0	17.5	6.0	1674.00
.19	2.21	4.01	2.72	.070	.060	.070	.000	1674.00	9977.50
.004262	540.	500.	450.	4	11	0	.00	83.20	10060.70

FLOW DISTRIBUTION FOR SECNO= .95 CWSEL= 1677.91

STA= 9978. 9982. 10025. 10061.
PER Q= 3.5 68.5 28.1
AREA= 15.6 170.7 103.0
VEL= 2.2 4.0 2.7
DEPTH= 3.8 3.9 2.9

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.040

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .40

3470 ENCROACHMENT STATIONS= 9940.0 10020.0 TYPE= 1 TARGET= 80.000

1.040	2.00	1682.00	1681.70	1681.59	1682.62	.62	4.38	.12	1680.00
1000.0	32.4	967.6	.0	7.7	151.8	.0	20.1	6.9	100000.00
.21	4.21	6.38	.00	.070	.060	.000	.000	1680.00	9940.00
.027264	500.	500.	500.	2	14	0	.00	80.00	10020.00

FLOW DISTRIBUTION FOR SECNO= 1.04 CWSEL= 1682.00

STA=	9940.	9944.	10050.
PER Q=	3.2	96.8	
AREA=	7.7	151.8	
VEL=	4.2	6.4	
DEPTH=	1.9	2.0	

*SECNO 1.130

WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.41

3470 ENCROACHMENT STATIONS= 9915.0 10006.0 TYPE= 1 TARGET= 91.000

1.130	3.16	1687.16	1685.56	1686.34	1687.36	.19	4.70	.04	1684.00
1000.0	42.6	957.4	.0	18.2	268.6	.0	22.6	7.9	100000.00
.25	2.34	3.56	.00	.070	.060	.000	.000	1684.00	9915.00
.004693	520.	500.	480.	4	15	0	.00	91.00	10006.00

FLOW DISTRIBUTION FOR SECNO= 1.13 CWSEL= 1687.16

STA=	9915.	9921.	10036.
PER Q=	4.3	95.7	
AREA=	18.2	268.6	
VEL=	2.3	3.6	
DEPTH=	3.1	3.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.230

3470 ENCROACHMENT STATIONS= 9961.2 10007.0 TYPE= 1 TARGET= 45.800

1.230	4.11	1690.11	1688.56	1689.21	1690.61	.50	3.16	.09	1686.00
1000.0	139.7	784.0	76.4	34.9	128.7	21.4	25.3	8.7	1686.00
.28	4.00	6.09	3.57	.070	.060	.070	.000	1686.00	9961.20
.009181	440.	500.	530.	4	15	0	.00	45.80	10007.00

FLOW DISTRIBUTION FOR SECNO= 1.23 CWSEL= 1690.11

STA=	9961.	9970.	10002.	10007.
PER Q=	14.0	78.4	7.6	
AREA=	34.9	128.7	21.4	
VEL=	4.0	6.1	3.6	
DEPTH=	3.8	4.1	4.0	

*SECNO 1.320

3470 ENCROACHMENT STATIONS= 9934.0 10008.8 TYPE= 1 TARGET= 74.800

1.320	2.87	1694.87	1693.77	1694.13	1695.21	.34	4.58	.02	1692.00
1000.0	.0	1000.0	.0	.0	214.1	.1	27.6	9.3	1692.00
.31	.00	4.67	.23	.000	.060	.070	.000	1692.00	9934.00
.009192	480.	500.	500.	3	14	0	.00	74.80	10008.80

FLOW DISTRIBUTION FOR SECNO= 1.32 CWSEL= 1694.87

STA=	9934.	10009.	10009.
PER Q=	100.0	.0	
AREA=	214.1	.1	
VEL=	4.7	.2	
DEPTH=	2.9	2.9	

*SECNO 1.420

3470 ENCROACHMENT STATIONS= 9949.2 10032.0 TYPE= 1 TARGET= 82.800

1.420	2.92	1698.92	1697.65	1698.26	1699.19	.26	3.97	.01	1696.00
1000.0	.0	1000.0	.0	.1	242.4	.0	30.2	10.3	100000.00
.34	.02	4.13	.00	.070	.060	.000	.000	1696.00	9949.20
.006936	520.	500.	480.	3	11	0	.00	82.80	10032.00

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      1.42          CWSEL=   1698.92

STA=    9949.    9949.   10063.
  PER Q=       .0    100.0
   AREA=       .1    242.4
    VEL=       .0      4.1
  DEPTH=      2.9      2.9

*SECNO 1.520

3470 ENCROACHMENT STATIONS=     9991.4   10048.0  TYPE=      1  TARGET=       56.600
     1.520      4.19   1702.19   1700.40   1701.18   1702.51       .33      3.31       .02   1698.00
    1000.0        .0     555.9     444.1        .0     108.6     116.2      32.9      11.1   1698.00
       .37       .02      5.12      3.82      .070      .060      .070      .000   1698.00   9991.40
   .006316      500.      500.      500.         2        15         0       .00     56.60  10048.00


FLOW DISTRIBUTION FOR SECNO=      1.52          CWSEL=   1702.19

STA=    9991.   10017.   10048.
  PER Q=     55.6     44.4
   AREA=    108.6    116.2
    VEL=      5.1      3.8
  DEPTH=      4.2      3.8

*SECNO 1.610

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .70


3470 ENCROACHMENT STATIONS=     9972.7   10053.9  TYPE=      1  TARGET=       81.200
     1.610      2.45   1706.45   1705.67   1705.72   1706.84       .39      4.31       .02   1704.00
    1000.0        .0    1000.0        .0        .1     198.8        .0      35.3      11.8 100000.00
       .40       .02      5.03       .00      .070      .060      .000      .000   1704.00   9972.70
   .012999      530.      500.      460.         3        18         0       .00     81.20  10053.90


FLOW DISTRIBUTION FOR SECNO=      1.61          CWSEL=   1706.45

STA=    9973.    9973.   10054.
  PER Q=       .0    100.0
   AREA=       .1    198.8
    VEL=       .0      5.0
  DEPTH=      2.4      2.4
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 1.700

3470 ENCROACHMENT STATIONS=     9995.7   10067.6  TYPE=      1  TARGET=      71.899
     1.700      3.19   1711.19   1709.81   1710.37   1711.48       .29      4.63       .01   1708.00
    1000.0        .0    1000.0        .0        .1     229.9        .0      37.7      12.7 100000.00
       .43       .21      4.35       .00      .070      .060      .000      .000   1708.00   9995.70
   .006936      470.      500.      540.         2        15         0       .00     71.90  10067.60


FLOW DISTRIBUTION FOR SECNO=      1.70          CWSEL=   1711.19

STA=    9996.    9996.   10068.
  PER Q=       .0    100.0
   AREA=       .1    229.9
    VEL=       .2      4.4
  DEPTH=      3.2      3.2

*SECNO 1.800

3470 ENCROACHMENT STATIONS=     9936.8   10025.0  TYPE=      1  TARGET=      88.200
     1.800      2.97   1714.97   1713.94   1714.26   1715.26       .30      3.78       .00   1712.00
    1000.0     200.8     799.2        .0      63.4     173.3        .0      40.3      13.6 100000.00
       .46      3.17      4.61       .00      .070      .060      .000      .000   1712.00   9936.80
   .008656      390.      500.      590.         3        11         0       .00     88.20  10025.00


FLOW DISTRIBUTION FOR SECNO=      1.80          CWSEL=   1714.97

STA=    9937.    9967.   10026.
  PER Q=      20.1     79.9
   AREA=      63.4    173.3
    VEL=       3.2      4.6
  DEPTH=       2.1      3.0

*SECNO 1.890

3470 ENCROACHMENT STATIONS=     9948.0   10021.6  TYPE=      1  TARGET=      73.600
     1.890      4.82   1718.82   1717.49   1718.28   1719.18       .36      3.90       .02   1716.00
    1000.0     148.9     847.4       3.7      56.9     166.6       2.7      43.1      14.6   1716.00
       .49      2.61      5.09      1.40      .070      .060      .070      .000   1714.00   9948.00
   .006836      550.      500.      420.         2        11         0       .00     73.60  10021.60
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.89 CWSEL= 1718.82

STA=	9948.	9978.	10021.	10022.
PER Q=	14.9	84.7	.4	
AREA=	56.9	166.6	2.7	
VEL=	2.6	5.1	1.4	
DEPTH=	1.9	3.9	2.8	

*SECNO 1.990

3470 ENCROACHMENT STATIONS= 9930.9 10015.3 TYPE= 1 TARGET= 84.399

****
LAST STATION
****

1.990	2.88	1722.88	1721.81	1722.31	1723.19	.31	4.00	.01	1720.00
1000.0	181.5	586.1	232.5	49.1	119.5	63.7	45.7	15.5	1720.00
.52	3.69	4.90	3.65	.070	.060	.070	.000	1720.00	9930.90
.009514	500.	500.	500.	2	18	0	.00	84.40	10015.30

FLOW DISTRIBUTION FOR SECNO= 1.99 CWSEL= 1722.88

	9931.	9949.	9990.	10015.
PER Q=	18.1	58.6	23.2	
AREA=	49.1	119.5	63.7	
VEL=	3.7	4.9	3.6	
DEPTH=	2.7	2.9	2.5	

THIS RUN EXECUTED 22JUN92 16:35:36

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.0; February 1991
****

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

6-22-92 MESQUITE TANK

SUMMARY PRINTOUT

	ENDST	CWSEL
	10124.890	1657.10
	10050.300	1657.10
*	10035.380	1658.47
*	10030.000	1658.89
*	10061.150	1663.64
*	10025.000	1663.96
*	10068.490	1666.80
	10029.900	1667.54
	10184.540	1671.68
	10055.600	1672.46
	10141.690	1674.96
*	10060.900	1675.88
	10079.630	1677.44
	10060.700	1677.91
*	10072.180	1681.59
*	10020.000	1682.00
*	10067.530	1686.34
*	10006.000	1687.16
	10047.870	1689.21
	10007.000	1690.11
	10038.950	1694.13
	10008.800	1694.87

	ENDST	CWSEL
*	10112.670	1698.26
	10032.000	1698.92
	10130.660	1701.18
	10048.000	1702.19
*	10217.620	1705.72
*	10053.900	1706.45
*	10145.350	1710.37
	10067.600	1711.19
	10128.870	1714.26
	10025.000	1714.97
	10162.000	1718.28
	10021.600	1718.82
	10067.310	1722.31
	10015.300	1722.88

-92 MESQUITE TANK

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	.380	.00	.00	.00	1654.00	1000.00	1657.10	1655.35	1657.14	13.20	1.91	668.81	275.20
	.380	.00	.00	.00	1654.00	1000.00	1657.10	1655.35	1657.16	18.48	2.26	524.82	232.61
*	.470	500.00	.00	.00	1656.00	1000.00	1658.47	1658.44	1659.15	350.26	8.45	166.75	53.43
*	.470	500.00	.00	.00	1656.00	1000.00	1658.89	1658.41	1659.31	170.98	6.57	206.43	76.48
*	.570	500.00	.00	.00	1660.00	1000.00	1663.64	1662.26	1663.79	41.49	3.78	352.86	155.24
*	.570	500.00	.00	.00	1660.00	1000.00	1663.96	1662.28	1664.28	64.74	4.99	229.63	124.28
*	.660	500.00	.00	.00	1664.00	1000.00	1666.80	1666.21	1667.12	118.82	5.37	242.60	91.74
	.660	500.00	.00	.00	1664.00	1000.00	1667.54	1666.24	1667.89	83.28	5.25	219.57	109.58
	.760	500.00	.00	.00	1670.00	1000.00	1671.68	1671.02	1671.81	77.51	3.09	382.17	113.59
	.760	500.00	.00	.00	1670.00	1000.00	1672.46	1671.62	1672.82	121.57	4.79	208.72	90.70
	.850	500.00	.00	.00	1672.00	1000.00	1674.96	1673.93	1675.12	58.09	3.89	344.86	131.21
*	.850	500.00	.00	.00	1672.00	1000.00	1675.88	1674.01	1676.08	41.22	3.93	285.72	155.75
	.950	500.00	.00	.00	1674.00	1000.00	1677.44	1676.12	1677.60	44.03	3.75	342.06	150.70
	.950	500.00	.00	.00	1674.00	1000.00	1677.91	1676.17	1678.12	42.62	4.01	289.31	153.19
	1.040	500.00	.00	.00	1680.00	1000.00	1681.59	1681.32	1681.96	236.85	5.18	214.26	64.98
	1.040	500.00	.00	.00	1680.00	1000.00	1682.00	1681.70	1682.62	272.64	6.38	159.47	60.56
*	1.130	500.00	.00	.00	1684.00	1000.00	1686.34	1685.25	1686.46	46.48	2.99	380.84	146.68
*	1.130	500.00	.00	.00	1684.00	1000.00	1687.16	1685.56	1687.36	46.93	3.56	286.78	145.98
	1.230	500.00	.00	.00	1686.00	1000.00	1689.21	1688.30	1689.46	80.41	4.84	270.62	111.52
	1.230	500.00	.00	.00	1686.00	1000.00	1690.11	1688.56	1690.61	91.81	6.09	185.05	104.37
	1.320	500.00	.00	.00	1692.00	1000.00	1694.13	1693.56	1694.39	126.16	4.60	263.41	89.03
	1.320	500.00	.00	.00	1692.00	1000.00	1694.87	1693.77	1695.21	91.92	4.67	214.22	104.30
*	1.420	500.00	.00	.00	1696.00	1000.00	1698.26	1697.26	1698.40	54.87	3.16	360.42	135.00
	1.420	500.00	.00	.00	1696.00	1000.00	1698.92	1697.65	1699.19	69.36	4.13	242.46	120.07
	1.520	500.00	.00	.00	1698.00	1000.00	1701.18	1700.22	1701.35	63.19	4.26	328.56	125.80
	1.520	500.00	.00	.00	1698.00	1000.00	1702.19	1700.40	1702.51	63.16	5.12	224.85	125.83
*	1.610	500.00	.00	.00	1704.00	1000.00	1705.72	1705.32	1705.94	154.39	4.41	300.86	80.48
*	1.610	500.00	.00	.00	1704.00	1000.00	1706.45	1705.67	1706.84	129.99	5.03	198.87	87.71
*	1.700	500.00	.00	.00	1708.00	1000.00	1710.37	1709.48	1710.50	58.97	3.39	383.16	130.23
	1.700	500.00	.00	.00	1708.00	1000.00	1711.19	1709.81	1711.48	69.36	4.35	230.00	120.07
	1.800	500.00	.00	.00	1712.00	1000.00	1714.26	1713.65	1714.49	110.88	4.49	290.14	94.97
	1.800	500.00	.00	.00	1712.00	1000.00	1714.97	1713.94	1715.26	86.56	4.61	236.74	107.49

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
1.890	500.00	.00	.00	1714.00	1000.00	1718.28	1717.43	1718.50	64.70	4.48	325.03	124.32
1.890	500.00	.00	.00	1714.00	1000.00	1718.82	1717.49	1719.18	68.36	5.09	226.21	120.95
1.990	500.00	.00	.00	1720.00	1000.00	1722.31	1721.70	1722.49	100.64	4.34	327.61	99.68
1.990	500.00	.00	.00	1720.00	1000.00	1722.88	1721.81	1723.19	95.14	4.90	232.32	102.52

-92 MESQUITE TANK

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	.380	1000.00	1657.10	.00	.00	.00	303.66	.00
	.380	1000.00	1657.10	.00	.00	.00	199.50	.00
*	.470	1000.00	1658.47	.00	1.37	.00	111.64	500.00
*	.470	1000.00	1658.89	.42	1.79	.42	99.20	500.00
*	.570	1000.00	1663.64	.00	5.18	.00	160.83	500.00
*	.570	1000.00	1663.96	.32	5.07	.32	61.20	500.00
*	.660	1000.00	1666.80	.00	3.16	.00	137.23	500.00
	.660	1000.00	1667.54	.74	3.58	.74	66.90	500.00
	.760	1000.00	1671.68	.00	4.88	.00	302.00	500.00
	.760	1000.00	1672.46	.78	4.92	.78	84.90	500.00
	.850	1000.00	1674.96	.00	3.28	.00	202.07	500.00
*	.850	1000.00	1675.88	.92	3.42	.92	78.40	500.00
	.950	1000.00	1677.44	.00	2.48	.00	158.16	500.00
	.950	1000.00	1677.91	.47	2.03	.47	83.20	500.00
	1.040	1000.00	1681.59	.00	4.14	.00	164.31	500.00
	1.040	1000.00	1682.00	.41	4.09	.41	80.00	500.00
*	1.130	1000.00	1686.34	.00	4.76	.00	209.26	500.00
*	1.130	1000.00	1687.16	.82	5.17	.82	91.00	500.00
	1.230	1000.00	1689.21	.00	2.87	.00	131.29	500.00
	1.230	1000.00	1690.11	.90	2.95	.90	45.80	500.00
	1.320	1000.00	1694.13	.00	4.92	.00	171.46	500.00
	1.320	1000.00	1694.87	.74	4.76	.74	74.80	500.00
*	1.420	1000.00	1698.26	.00	4.14	.00	205.69	500.00
	1.420	1000.00	1698.92	.66	4.05	.66	82.80	500.00
	1.520	1000.00	1701.18	.00	2.92	.00	175.98	500.00
	1.520	1000.00	1702.19	1.01	3.26	1.01	56.60	500.00
*	1.610	1000.00	1705.72	.00	4.54	.00	269.18	500.00
*	1.610	1000.00	1706.45	.73	4.26	.73	81.20	500.00
*	1.700	1000.00	1710.37	.00	4.66	.00	245.00	500.00
	1.700	1000.00	1711.19	.82	4.74	.82	71.90	500.00
	1.800	1000.00	1714.26	.00	3.88	.00	201.21	500.00
	1.800	1000.00	1714.97	.71	3.78	.71	88.20	500.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1.890	1000.00	1718.28	.00	4.02	.00	219.74	500.00
1.890	1000.00	1718.82	.55	3.86	.55	73.60	500.00
1.990	1000.00	1722.31	.00	4.03	.00	236.81	500.00
1.990	1000.00	1722.88	.57	4.06	.57	84.40	500.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
WARNING SECNO=      .470  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .470  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .570  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .570  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .660  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .850  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.040  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.040  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.130  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.130  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.420  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.610  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.610  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.700  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

Roadway width summary: 6-22-92 MESQUITE TANK
Profile No. 2

Section Number	Elevation Increase	Top Width	Left Encroach Station	Left Sta Distance From Center	Center Station	Right Sta Distance From Center	Right Encroach Station
.380	.00	199.50	9850.80	137.52	9988.31	61.99	10050.30
.470	.42	99.20	9930.80	65.70	9996.50	33.50	10030.00
.570	.32	61.20	9963.80	39.52	10003.31	21.69	10025.00
.660	.74	66.90	9963.00	40.11	10003.12	26.79	10029.90
.760	.78	84.90	9970.70	44.96	10015.67	39.93	10055.60
.850	.92	78.40	9982.50	21.63	10004.13	56.77	10060.90
.950	.47	83.20	9977.50	25.98	10003.48	57.22	10060.70
1.040	.41	80.00	9940.00	56.95	9996.95	23.05	10020.00
1.130	.82	91.00	9915.00	63.51	9978.51	27.49	10006.00
1.230	.90	45.80	9961.20	24.73	9985.93	21.07	10007.00
1.320	.74	74.80	9934.00	37.38	9971.38	37.42	10008.80
1.420	.66	82.80	9949.20	56.67	10005.87	26.13	10032.00
1.520	1.01	56.60	9991.40	12.96	10004.37	43.63	10048.00
1.610	.73	81.20	9972.70	40.64	10013.34	40.56	10053.90
1.700	.82	71.90	9995.70	36.00	10031.70	35.90	10067.60
1.800	.71	88.20	9936.80	59.34	9996.14	28.86	10025.00
1.890	.55	73.60	9948.00	51.50	9999.50	22.10	10021.60
1.990	.57	84.40	9930.90	38.74	9969.64	45.66	10015.30

FLOODWAY DATA, 6-22-92 MESQUITE TANK
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.380	199.	525.	1.9	1657.1	1657.1	.0
.470	99.	206.	4.8	1658.9	1658.5	.4
.570	61.	230.	4.4	1663.9	1663.6	.3
.660	67.	220.	4.6	1667.5	1666.8	.7
.760	85.	209.	4.8	1672.5	1671.7	.8
.850	78.	286.	3.5	1675.9	1675.0	.9
.950	83.	289.	3.5	1677.9	1677.4	.5
1.040	80.	159.	6.3	1682.0	1681.6	.4
1.130	91.	287.	3.5	1687.1	1686.3	.8
1.230	46.	185.	5.4	1690.1	1689.2	.9
1.320	75.	214.	4.7	1694.8	1694.1	.7
1.420	83.	242.	4.1	1699.0	1698.3	.7
1.520	57.	225.	4.4	1702.2	1701.2	1.0
1.610	81.	199.	5.0	1706.4	1705.7	.7
1.700	72.	230.	4.3	1711.2	1710.4	.8
1.800	88.	237.	4.2	1715.0	1714.3	.7
1.890	74.	226.	4.4	1718.8	1718.3	.5
1.990	84.	232.	4.3	1722.9	1722.3	.6

APACHE WASH HEC-1

```
****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*      BY THE COE IN FEBRUARY 1981     *
*          REVISED 02 AUG 88           *
*                                      *
*  RUN DATE  04/15/1991  TIME  14:45:13 *
*                                      *
****************************************
```

```
****************************************
*                                      *
*     DODSON AND ASSOCIATES, INC.      *
*   HYDROLOGIST AND CIVIL ENGINEERS    *
*      7015 W TIDWELL SUITE 107        *
*        HOUSTON, TEXAS  77092         *
*           (713) 895-8322             *
*                                      *
****************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X    X         XX
X     X  X        X              X
XXXXXXX  XXXX     X       XXXXX  X
X     X  X        X              X
X     X  X        X    X         X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID   APACHE WASH FILE AWT.DAT                                   REVISED 1-31-91
  2           ID   EXISTING CONDITIONS                                  CHANGED COMBINATONS
  3           ID   FLOOD INSURANCE STUDY
              *DIAGRAM
  4           IT      10  1JUN90            145
  5           IO       5       0

  6           KK      70
  7           KM   RUNOFF FROM 70
  8           KO       3
  9           BA     2.2
 10           IN      30
 11           PB     4.6
 12           PC       0   0.005   0.009    0.01   0.013   0.019   0.021   0.028   0.032   0.044
 13           PC   0.057     0.1    0.66   0.745   0.776     0.8   0.816    0.83    0.84    0.85
 14           PC   0.861   0.868   0.878   0.884   0.891     0.9   0.905   0.912   0.919   0.923
 15           PC    0.93   0.934   0.939   0.944    0.95   0.958   0.961   0.963   0.969   0.971
 16           PC   0.974   0.979   0.981   0.985   0.989   0.991   0.993   0.996     1.0
 17           LS       0    84.9       1
 18           UD    0.92

 19           KK      80
 20           KM   RUNOFF FROM 80
 21           KO       3
 22           BA    1.35
 23           PB     4.6
 24           LS       0    83.6       1
 25           UD    0.92

 26           KK     80T
 27           KM   COMBINE 70,80
 28           HC       2

 29           KK       G
 30           KM   ROUTE 80T TO G
 31           RK    3000   0.005    0.03           TRAP       0      50

 32           KK       G
 33           KM   RUNOFF FROM G
 34           KO       3
 35           BA    0.89
 36           PB     4.6
 37           LS       0    85.1       5
 38           UD    0.35

 39           KK      GT
 40           KM   COMBINE 80T+G
 41           HC       2

 42           KK      60
 43           KM   RUNOFF FROM 60
 44           KO       3
 45           BA    0.59
 46           PB     4.6
 47           LS       0      83       1
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  48          UD    0.37

  49          KK     60T
  50          KM   COMBINE GT+60
  51          HC       2

  52          KK      50
  53          KM   RUNOFF FROM 50
  54          KO       3
  55          BA    1.15
  56          PB     4.6
  57          LS       0    84.3     1.5
  58          UD    0.85

  59          KK     50T
  60          KM   COMBINE 60T+50
  61          HC       2

  62          KK    40MT
  63          KM   ROUTE 50T  TO 40
  64          RK    1000   0.005    0.03           TRAP      10      25

  65          KK      44
  66          KM   RUNOFF FROM 44
  67          BA    0.62
  68          PB     4.6
  69          LS       0    84.7
  70          UD    0.39

  71          KK     42T
  72          KM   ROUTE TO 42T
  73          RK    2000   0.016   0.035           TRAP       5      10

  74          KK      43
  75          KM   RUNOFF FROM 43
  76          BA    1.39
  77          PB     4.6
  78          LS       0    85.2       1
  79          UD    0.52

  80          KK     42T
  81          KM   ROUTE 44 TO 42T
  82          RK    1500   0.016   0.035           TRAP       5      10

  83          KK      42
  84          KM   RUNOFF FROM 42
  85          BA    0.11
  86          PB     4.6
  87          LS       0    80.5       1
  88          UD    0.13
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 89           KK     42T
 90           KM   COMBINE 44T,43T,42T
 91           HC       3

 92           KK     41T
 93           KM   ROUTE TO 41T
 94           RK    4200    0.01   0.035           TRAP       5      50

 95           KK      41
 96           KM   RUNOFF FROM 41
 97           BA    0.89
 98           PB     4.6
 99           LS       0    83.7     1.5
100           UD    0.51

101           KK     41T
102           KM   COMBINE 40T,42T
103           HC       2

104           KK     40T
105           KM   ROUTE 41T TO 40
106           RK    6500   0.006   0.035           TRAP       5      50

107           KK      40
108           KM   RUNOFF FROM 40
109           BA    0.58
110           PB     4.6
111           LS       0    82.2       2
112           UD    0.54

113           KK     40T
114           KM   COMBINE 40,41T
115           HC       2

116           KK    40MT
117           KM    COMBINE WITH 50T
118           HC       2

119           KK     F1T
120           KM   ROUTE 40MT TO F1
121           RK    1600   0.003   0.035           TRAP      12      50

122           KK      F1
123           KM   RUNOFF FROM F1
124           KO       3
125           BA    0.26
126           PB     4.6
127           LS       0    85.7       1
128           UD    0.25
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 129          KK     F1T
 130          KM   COMBINE 40MT+F1
 131          HC       2

 132          KK     F2T
 133          KM   ROUTE TO F2
 134          RK     500   0.003   0.035           TRAP      12      50

 135          KK      F2
 136          KM   RUNOFF FROM F2
 137          KO       3
 138          BA    0.46
 139          PB     4.6
 140          LS       0    82.7       0
 141          UD    0.59

 142          KK     F2T
 143          KM   COMBINE F1T+F2
 144          HC       2

 145          KK     30T
 146          KM   ROUTE F2T TO 30
 147          RK     800   0.003   0.035           TRAP      12      50

 148          KK      30
 149          KM   RUNOFF FROM 30
 150          KO       3
 151          BA     0.5
 152          PB     4.6
 153          LS       0    84.3     1.2
 154          UD    0.65

 155          KK     30T
 156          KM   COMBINE F2T+30
 157          HC       2

 158          KK     F3T
 159          KM   ROUTE TO F3
 160          RK    1000   0.003   0.035           TRAP      12      50

 161          KK      F3
 162          KM   RUNOFF FROM F3
 163          KO       3
 164          BA    0.27
 165          PB     4.6
 166          LS       0    84.3       1
 167          UD    0.28

 168          KK     F3T
 169          KM   COMBINE 30T+F3
 170          HC       2
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  171         KK     F4T
  172         KM   ROUTE TO F4
  173         RK    1500   0.003   0.035           TRAP      12      50

  174         KK      F4
  175         KM   RUNOFF FROM F4
  176         KO       3
  177         BA    0.14
  178         PB     4.6
  179         LS       0    84.3       0
  180         UD    0.22

  181         KK     F4T
  182         KM   COMBINE F3T+F4
  183         HC       2

  184         KK     F5T
  185         KM   ROUTE TO F5
  186         RK     500   0.003   0.035           TRAP      12      50

  187         KK      F5
  188         KM   RUNOFF FROM F5
  189         KO       3
  190         BA    0.68
  191         PB     4.6
  192         LS       0    86.8       0
  193         UD    0.84

  194         KK     F5T
  195         KM   COMBINE F4T+F5
  196         HC       2

  197         KK     F6T
  198         KM   ROUTE TO F6
  199         RK    2500   0.003   0.035           TRAP      12      50

  200         KK      F6
  201         KM   RUNOFF FROM F6
  202         KO       3
  203         BA    0.49
  204         PB     4.6
  205         LS       0    84.3       0
  206         UD    0.35

  207         KK     F6T
  208         KM   COMBINE F5T+F6
  209         HC       2

  210         KK      25
  211         KM   RUNOFF FROM 25
  212         BA    1.41
  213         PB     4.6
  214         LS       0    85.7       1
  215         UD    0.38
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 216          KK     24
 217          KM   RUNOFF FROM 24
 218          BA    2.91
 219          PB     4.6
 220          LS       0    86.3       1
 221          UD    0.53

 222          KK     24T
 223          KM   COMBINE 24,25
 224          HC       2

 225          KK     23T
 226          KM   ROUTE TO 23
 227          RK    9500  0.0092   0.065            TRAP       8      50

 228          KK     23
 229          KM   RUNOFF FROM 23
 230          BA    1.71
 231          PB     4.6
 232          LS       0    85.5       1
 233          UD    0.49

 234          KK     23T
 235          KM   COMBINE 24T,23
 236          HC       2

 237          KK     22T
 238          KM   ROUTE TO 22T
 239          RK    8000   0.007   0.065            TRAP       8      50

 240          KK     22
 241          KM   RUNOFF FROM 22
 242          BA    0.51
 243          PB     4.6
 244          LS       0    85.5       1
 245          UD    0.46

 246          KK     22T
 247          KM   COMBINE 22,23T
 248          HC       2

 249          KK     21T
 250          KM   ROUTE TO 20T
 251          RK    8500   0.005   0.065            TRAP      10      50

 252          KK     21
 253          KM   RUNOFF FROM 21
 254          BA    0.51
 255          PB     4.6
 256          LS       0    85.1       2
 257          UD    0.63
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  258         KK     20T
  259         KM   ROUTE TO 20T
  260         RK    7000   0.005   0.035           TRAP       5      50

  261         KK      20
  262         KM   RUNOFF FROM 20
  263         BA    0.68
  264         PB     4.6
  265         LS       0    83.4
  266         UD    0.56

  267         KK     20T
  268         KM   COMBINE 21,22T,20
  269         HC       3

  270         KK    20MT
  271         KM   COMBINE WITH MAINLINE
  272         HC       2

  273         KK    10MT
  274         KM   ROUTE TO 10
  275         RK    1000   0.004    0.02           TRAP      12      25

  276         KK      14
  277         KM   RUNOFF FROM 14
  278         BA    1.25
  279         PB     4.6
  280         LS       0    86.7
  281         UD    0.56

  282         KK     13T
  283         KM   ROUTE TO 13T
  284         RK    5000   0.016   0.035           TRAP      12      50

  285         KK      13
  286         KM   RUNOFF FOM 13
  287         BA    0.15
  288         PB     4.6
  289         LS       0    78.9
  290         UD    0.31

  291         KK     13T
  292         KM   COMBINE 14,13
  293         HC       2

  294         KK      12
  295         KM   RUNOFF FROM 12
  296         BA    1.89
  297         PB     4.6
  298         LS       0    86.4
  299         UD    0.57
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 300          KK     12T
 301          KM   COMBINE 13T,12
 302          HC       2

 303          KK     11A
 304          KM   ROUTE TO 11
 305          RK    3000   0.016   0.155           TRAP      12      50

 306          KK     11A
 307          KM   RUNOFF FROM 11A
 308          BA    0.37
 309          PB     4.6
 310          LS       0    83.6       0
 311          UD    0.28

 312          KK    11AT
 313          KM   COMBINE 12T+11AT
 314          HC       2

 315          KK     11
 316          KM   RUNOFF FROM 11
 317          BA    0.99
 318          PB     4.6
 319          LS       0    85.6
 320          UD    0.67

 321          KK     11T
 322          KM   COMBINE 11,11AT
 323          HC       2

 324          KK     10T
 325          KM   ROUTE TO 10
 326          RK    7000   0.006   0.065           TRAP      12      50

 327          KK     10
 328          KM   RUNOFF FROM 10
 329          BA    0.96
 330          PB     4.6
 331          LS       0    85.7       1
 332          UD    0.65

 333          KK     10T
 334          KM   COMBINE 10,11T
 335          HC       2

 336          KK    10MT
 337          KM   COMBINE WITH MAINLINE
 338          HC       2
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 339          KK      ET
 340          KM   ROUTE TO E
 341          RK   13000   0.003   0.055           TRAP      12      50

 342          KK       E
 343          KM   RUNOFF FROM E
 344          KO       3
 345          BA    1.11
 346          PB     4.6
 347          LS       0    84.6
 348          UD    0.60

 349          KK      ET
 350          KM   COMBINE 10T,E
 351          HC       2

 352          KK       2
 353          KM   RUNOFF FROM 2
 354          KO       3
 355          BA    1.06
 356          PB     4.6
 357          LS       0    87.7
 358          UD    0.96

 359          KK      1T
 360          KM   ROUTE TO 1
 361          RK    9000   0.006   0.035           TRAP      12      50

 362          KK       1
 363          KM   RUNOFF FROM 1
 364          KO       3
 365          BA    0.66
 366          PB     4.6
 367          LS       0    85.5
 368          UD    0.63

 369          KK      1T
 370          KM   COMBINE 1,2
 371          HC       2
 372          ZZ
```

SCHEMATIC DIAGRAM OF STREAM NETWORK

```
INPUT
LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

          (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  6        70
            .
            .
 19         .          80
            .           .
            .           .
 26       80T............
           V
           V
 29        G
            .
            .
 32         .           G
            .           .
            .           .
 39       GT............
            .
            .
 42         .          60
            .           .
            .           .
 49       60T............
            .
            .
 52         .          50
            .           .
            .           .
 59       50T............
           V
           V
 62       40MT
            .
            .
 65         .          44
            .           V
            .           V
 71         .          42T
            .           .
            .           .
 74         .           .          43
            .           .           V
            .           .           V
 80         .           .          42T
            .           .           .
            .           .           .
 83         .           .           .          42
            .           .           .           .
            .           .           .           .
 89         .          42T.......................
            .           V
            .           V
 92         .          41T
            .           .
            .           .
            .           .          41
            .           .           .
            .           .           .
101         .          41T............
            .           V
```

```
                .          V
104             .        40T
                .          .
                .          .
107             .          .          40
                .          .           .
                .          .           .
113             .        40T...........
                .          .
                .          .
116          40MT...........
               V
               V
119           F1T
                .
                .
122             .          F1
                .           .
                .           .
129           F1T...........
               V
               V
132           F2T
                .
                .
135             .          F2
                .           .
                .           .
142           F2T...........
               V
               V
145           30T
                .
                .
148             .          30
                .           .
                .           .
155           30T...........
               V
               V
158           F3T
                .
                .
161             .          F3
                .           .
                .           .
168           F3T...........
               V
               V
171           F4T
                .
                .
174             .          F4
                .           .
                .           .
181           F4T...........
               V
               V
184           F5T
                .
                .
                .          F5
                .           .
                .           .
194           F5T...........
               V
```

```
                V
197            F6T
                .
                .
200             .          F6
                .           .
                .           .
207            F6T...........
                .
                .
210             .          25
                .           .
                .           .
216             .           .          24
                .           .           .
                .           .           .
222             .          24T..........
                .           V
                .           V
225             .          23T
                .           .
                .           .
228             .           .          23
                .           .           .
                .           .           .
234             .          23T..........
                .           V
                .           V
237             .          22T
                .           .
                .           .
240             .           .          22
                .           .           .
                .           .           .
                .          22T..........
                .           V
                .           V
249             .          21T
                .           .
                .           .
252             .           .          21
                .           .           V
                .           .           V
258             .           .          20T
                .           .           .
                .           .           .
261             .           .           .          20
                .           .           .           .
                .           .           .           .
267             .          20T.......................
                .           .
                .           .
270            20MT..........
                V
                V
273            10MT
                .
                .
276             .          14
                .           V
                .           V
                .          13T
                .           .
                .           .
285             .           .          13
                .           .           .
```

```
291          13T............
294                      12
300          12T............
             V
             V
303          11A
306                      11A
312          11AT...........
315                      11
321          11T............
             V
             V
324          10T
327                      10
333          10T............
     10MT............
     V
     V
339  ET
342          E
349  ET............
352          2
             V
             V
359          1T
362                       1
369          IT............
```

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
****************************************
*                                      *
*  FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*     BY THE COE IN FEBRUARY 1981      *
*          REVISED 02 AUG 88           *
*                                      *
*  RUN DATE  04/15/1991  TIME  14:45:13 *
*                                      *
****************************************
```

```
****************************************
*                                      *
*     DODSON AND ASSOCIATES, INC.      *
*   HYDROLOGIST AND CIVIL ENGINEERS    *
*      7015 W TIDWELL SUITE 107        *
*        HOUSTON, TEXAS  77092         *
*           (713) 895-8322             *
*                                      *
****************************************
```

```
                    APACHE WASH FILE AWT.DAT                    REVISED 1-31-91
                    EXISTING CONDITIONS                   CHANGED COMBINATONS
                    FLOOD INSURANCE STUDY

  5 IO        OUTPUT CONTROL VARIABLES
                   IPRNT          5  PRINT CONTROL
                   IPLOT          0  PLOT CONTROL
                   QSCAL         0.  HYDROGRAPH PLOT SCALE

   IT         HYDROGRAPH TIME DATA
                    NMIN         10  MINUTES IN COMPUTATION INTERVAL
                   IDATE     1JUN90  STARTING DATE
                   ITIME       0000  STARTING TIME
                      NQ        145  NUMBER OF HYDROGRAPH ORDINATES
                  NDDATE     2JUN90  ENDING DATE
                  NDTIME       0000  ENDING TIME
                   ICENT         19  CENTURY MARK

             COMPUTATION INTERVAL     .17 HOURS
                  TOTAL TIME BASE   24.00 HOURS

       ENGLISH UNITS
           DRAINAGE AREA          SQUARE MILES
           PRECIPITATION DEPTH    INCHES
           LENGTH, ELEVATION      FEET
           FLOW                   CUBIC FEET PER SECOND
           STORAGE VOLUME         ACRE-FEET
           SURFACE AREA           ACRES
           TEMPERATURE            DEGREES FAHRENHEIT


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
  6 KK    *        70  *
          *            *
          **************

  8 KO        OUTPUT CONTROL VARIABLES
                   IPRNT          3  PRINT CONTROL
                   IPLOT          0  PLOT CONTROL
                   QSCAL         0.  HYDROGRAPH PLOT SCALE

    IN        TIME DATA FOR INPUT TIME SERIES
                   JXMIN         30  TIME INTERVAL IN MINUTES
                  JXDATE     1JUN90  STARTING DATE
                  JXTIME          0  STARTING TIME

            SUBBASIN RUNOFF DATA
```

9 BA SUBBASIN CHARACTERISTICS

TAREA 2.20 SUBBASIN AREA

PRECIPITATION DATA

11 PB STORM 4.60 BASIN TOTAL PRECIPITATION

12 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.01	.01	.01	.19	.19	.19	.03	.03	.03	.01
.01	.01	.01	.01	.01	.01	.01	.01	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00						

17 LS SCS LOSS RATE

STRTL .36 INITIAL ABSTRACTION

CRVNBR 84.90 CURVE NUMBER

RTIMP 1.00 PERCENT IMPERVIOUS AREA

18 UD SCS DIMENSIONLESS UNITGRAPH

TLAG .92 LAG

***

UNIT HYDROGRAPH

30 END-OF-PERIOD ORDINATES

81.	242.	495.	809.	1005.	1060.	1009.	887.	726.	529.
396.	300.	235.	179.	136.	104.	79.	59.	46.	35.
27.	21.	15.	12.	10.	8.	5.	4.	2.	0.

*** *** *** *** ***

HYDROGRAPH AT STATION 70

TOTAL RAINFALL = 4.60, TOTAL LOSS = 1.59, TOTAL EXCESS = 3.01

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.00-HR
1899.	6.83	(CFS)	581.	176.	176.	176.
		(INCHES)	2.454	2.974	2.974	2.974
		(AC-FT)	288.	349.	349.	349.

CUMULATIVE AREA = 2.20 SQ MI

*** ***

```
**************
*            *
*        80  *
*            *
**************
```

19 KK

21 KO OUTPUT CONTROL VARIABLES

IPRNT	3	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

SUBBASIN RUNOFF DATA

22 BA SUBBASIN CHARACTERISTICS

TAREA	1.35	SUBBASIN AREA

PRECIPITATION DATA

23 PB

STORM	4.60	BASIN TOTAL PRECIPITATION

12 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.01	.01	.01	.19	.19	.19	.03	.03	.03	.01
.01	.01	.01	.01	.01	.01	.01	.01	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00						

24 LS SCS LOSS RATE

STRTL	.39	INITIAL ABSTRACTION
CRVNBR	83.60	CURVE NUMBER
RTIMP	1.00	PERCENT IMPERVIOUS AREA

25 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	.92	LAG

***

UNIT HYDROGRAPH
30 END-OF-PERIOD ORDINATES

50.	149.	304.	496.	617.	650.	619.	544.	446.	324.
243.	184.	144.	110.	84.	64.	48.	36.	28.	22.
17.	13.	9.	7.	6.	5.	3.	2.	1.	0.

*** *** *** *** ***

HYDROGRAPH AT STATION 80

TOTAL RAINFALL = 4.60, TOTAL LOSS = 1.71, TOTAL EXCESS = 2.89

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.00-HR
1107.	6.83	(CFS)	340.	104.	104.	104.
		(INCHES)	2.344	2.855	2.855	2.855
		(AC-FT)	169.	206.	206.	206.

CUMULATIVE AREA = 1.35 SQ MI

*** ***

```
**************
*            *
*          G *
*            *
**************
```

33 KK

34 KO

```
OUTPUT CONTROL VARIABLES
      IPRNT          3  PRINT CONTROL
      IPLOT          0  PLOT CONTROL
      QSCAL         0.  HYDROGRAPH PLOT SCALE

SUBBASIN RUNOFF DATA
```

35 BA

```
SUBBASIN CHARACTERISTICS
      TAREA        .89  SUBBASIN AREA

PRECIPITATION DATA
```

36 PB

```
      STORM       4.60  BASIN TOTAL PRECIPITATION
```

12 PI

```
INCREMENTAL PRECIPITATION PATTERN
      .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
      .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
      .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
      .01     .01     .01     .19     .19     .19     .03     .03     .03     .01
      .01     .01     .01     .01     .01     .01     .01     .01     .00     .00
      .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
      .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
      .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
      .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
      .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
      .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
      .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
      .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
      .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
      .00     .00     .00     .00
```

37 LS

```
SCS LOSS RATE
      STRTL        .35  INITIAL ABSTRACTION
      CRVNBR     85.10  CURVE NUMBER
      RTIMP       5.00  PERCENT IMPERVIOUS AREA
```

38 UD

```
SCS DIMENSIONLESS UNITGRAPH
       TLAG        .35  LAG

                                   ***

                              UNIT HYDROGRAPH
                         12 END-OF-PERIOD ORDINATES
     290.     891.     952.     630.     316.     174.      93.      49.      26.      14.
       8.       4.

***          ***          ***          ***          ***

                HYDROGRAPH AT STATION       G

TOTAL RAINFALL =    4.60, TOTAL LOSS =    1.51, TOTAL EXCESS =    3.09

PEAK FLOW    TIME                      MAXIMUM AVERAGE FLOW
 (CFS)       (HR)              6-HR      24-HR      72-HR     24.00-HR
  1463.      6.17     (CFS)    245.        74.        74.        74.
                    (INCHES)  2.561      3.074      3.074      3.074
                     (AC-FT)   122.       146.       146.       146.
```

```
                CUMULATIVE AREA =     .89 SQ MI

** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
42 KK     *        60  *
          *            *
          **************

44 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          3  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             SUBBASIN RUNOFF DATA

45 BA          SUBBASIN CHARACTERISTICS
                     TAREA        .59  SUBBASIN AREA

               PRECIPITATION DATA

46 PB                STORM       4.60  BASIN TOTAL PRECIPITATION

12 PI            INCREMENTAL PRECIPITATION PATTERN
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .01       .01       .01       .19       .19       .19       .03       .03       .03       .01
                     .01       .01       .01       .01       .01       .01       .01       .01       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00

47 LS          SCS LOSS RATE
                     STRTL        .41  INITIAL ABSTRACTION
                    CRVNBR      83.00  CURVE NUMBER
                     RTIMP       1.00  PERCENT IMPERVIOUS AREA

48 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG        .37  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                          13 END-OF-PERIOD ORDINATES
             170.      538.      619.      445.      230.      129.       70.       39.       21.       12.
               7.        4.        1.

   ***            ***            ***            ***            ***

                     HYDROGRAPH AT STATION       60

   TOTAL RAINFALL =    4.60, TOTAL LOSS =    1.77, TOTAL EXCESS =    2.83
```

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.00-HR
836.	6.17	(CFS)	148.	45.	45.	45.
		(INCHES)	2.331	2.817	2.817	2.817
		(AC-FT)	73.	89.	89.	89.

CUMULATIVE AREA = .59 SQ MI

*** ***

```
              **************
              *            *
52 KK         *        50  *
              *            *
              **************

54 KO            OUTPUT CONTROL VARIABLES
                      IPRNT          3  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

               SUBBASIN RUNOFF DATA

55 BA            SUBBASIN CHARACTERISTICS
                      TAREA       1.15  SUBBASIN AREA

                 PRECIPITATION DATA

56 PB                 STORM       4.60  BASIN TOTAL PRECIPITATION

57 PI              INCREMENTAL PRECIPITATION PATTERN
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .01       .01       .01       .19       .19       .19       .03       .03       .03       .01
                      .01       .01       .01       .01       .01       .01       .01       .01       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00

57 LS            SCS LOSS RATE
                      STRTL        .37  INITIAL ABSTRACTION
                     CRVNBR      84.30  CURVE NUMBER
                      RTIMP       1.50  PERCENT IMPERVIOUS AREA

58 UD            SCS DIMENSIONLESS UNITGRAPH
                       TLAG        .85  LAG
```

***

UNIT HYDROGRAPH
27 END-OF-PERIOD ORDINATES

51.	154.	320.	497.	586.	591.	532.	447.	329.	238.
177.	136.	101.	76.	57.	42.	31.	23.	17.	13.
10.	7.	6.	5.	3.	2.	1.			

```
***          ***          ***          ***          ***

                    HYDROGRAPH AT STATION      50

    L RAINFALL =    4.60, TOTAL LOSS =    1.64, TOTAL EXCESS =    2.96

PEAK FLOW   TIME                          MAXIMUM AVERAGE FLOW
  (CFS)     (HR)                 6-HR       24-HR       72-HR     24.00-HR
  1023.     6.67       (CFS)     299.         91.         91.         91.
                     (INCHES)   2.414       2.929       2.929       2.929
                      (AC-FT)    148.        180.        180.        180.

                    CUMULATIVE AREA =    1.15 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


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          *            *
122 KK    *        F1  *
          *            *
          **************

124 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          3  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

            SUBBASIN RUNOFF DATA

125 BA          SUBBASIN CHARACTERISTICS
                     TAREA        .26  SUBBASIN AREA

                PRECIPITATION DATA

126 PB               STORM       4.60  BASIN TOTAL PRECIPITATION

 12 PI            INCREMENTAL PRECIPITATION PATTERN
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .01       .01       .01       .19       .19       .19       .03       .03       .03       .01
                     .01       .01       .01       .01       .01       .01       .01       .01       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00

127 LS          SCS LOSS RATE
                     STRTL        .33  INITIAL ABSTRACTION
                    CRVNBR      85.70  CURVE NUMBER
                     RTIMP       1.00  PERCENT IMPERVIOUS AREA

128 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG        .25  LAG
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***

UNIT HYDROGRAPH
10 END-OF-PERIOD ORDINATES

178. 379. 258. 106. 48. 21. 9. 4. 2. 0.

*** *** *** *** ***

HYDROGRAPH AT STATION F1

TOTAL RAINFALL = 4.60, TOTAL LOSS = 1.52, TOTAL EXCESS = 3.08

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.00-HR
482.	6.17	(CFS)	72.	21.	21.	21.
		(INCHES)	2.571	3.071	3.071	3.071
		(AC-FT)	36.	43.	43.	43.

CUMULATIVE AREA = .26 SQ MI

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              *            *
135 KK        *        F2  *
              *            *
              **************

137 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          3  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

138 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .46  SUBBASIN AREA

                PRECIPITATION DATA

139 PB                STORM       4.60  BASIN TOTAL PRECIPITATION

 12 PI            INCREMENTAL PRECIPITATION PATTERN
                      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                      .01      .01      .01      .19      .19      .19      .03      .03      .03      .01
                      .01      .01      .01      .01      .01      .01      .01      .01      .00      .00
                      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                      .00      .00      .00      .00

140 LS          SCS LOSS RATE
                      STRTL        .42  INITIAL ABSTRACTION
                     CRVNBR      82.70  CURVE NUMBER
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                RTIMP        .00  PERCENT IMPERVIOUS AREA

141 UD        SCS DIMENSIONLESS UNITGRAPH
                TLAG        .59  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                          20 END-OF-PERIOD ORDINATES
          47.     153.     287.     330.     299.     230.     145.      96.      66.      44.
          29.      19.      13.       9.       6.       4.       3.       2.       1.       0.

   ***          ***          ***          ***          ***

                HYDROGRAPH AT STATION      F2

  TOTAL RAINFALL =    4.60, TOTAL LOSS =    1.81, TOTAL EXCESS =    2.79

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                 6-HR      24-HR      72-HR     24.00-HR
   488.       6.50       (CFS)     113.        34.        34.        34.
                        (INCHES)   2.279      2.765      2.765      2.765
                         (AC-FT)    56.        68.        68.        68.

                CUMULATIVE AREA =     .46 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


        **************
        *            *
148 KK  *        30  *
        *            *
        **************

150 KO        OUTPUT CONTROL VARIABLES
                IPRNT          3  PRINT CONTROL
                IPLOT          0  PLOT CONTROL
                QSCAL         0.  HYDROGRAPH PLOT SCALE

            SUBBASIN RUNOFF DATA

151 BA        SUBBASIN CHARACTERISTICS
                TAREA        .50  SUBBASIN AREA

              PRECIPITATION DATA

152 PB          STORM       4.60  BASIN TOTAL PRECIPITATION

 12 PI          INCREMENTAL PRECIPITATION PATTERN
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .01      .01      .01      .19      .19      .19      .03      .03      .03      .01
                .01      .01      .01      .01      .01      .01      .01      .01      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
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                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00

153 LS        SCS LOSS RATE
                STRTL       .37  INITIAL ABSTRACTION
                CRVNBR    84.30  CURVE NUMBER
                RTIMP      1.20  PERCENT IMPERVIOUS AREA

154 UD        SCS DIMENSIONLESS UNITGRAPH
                TLAG        .65  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                          21 END-OF-PERIOD ORDINATES
            41.     131.     260.     326.     319.     266.     188.     125.      87.      61.
            42.      29.      20.      14.       9.       7.       5.       3.       2.       1.
             1.

   ***          ***          ***          ***          ***

                HYDROGRAPH AT STATION      30

  TOTAL RAINFALL =   4.60, TOTAL LOSS =   1.65, TOTAL EXCESS =   2.95

PEAK FLOW    TIME                          MAXIMUM AVERAGE FLOW
  (CFS)      (HR)                 6-HR      24-HR      72-HR    24.00-HR
   539.      6.50       (CFS)     130.        39.        39.        39.
                       (INCHES)  2.426      2.930      2.930      2.930
                       (AC-FT)    65.        78.        78.        78.

                CUMULATIVE AREA =     .50 SQ MI

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

        **************
        *            *
161 KK  *        F3  *
        *            *
        **************

163 KO        OUTPUT CONTROL VARIABLES
                IPRNT        3  PRINT CONTROL
                IPLOT        0  PLOT CONTROL
                QSCAL       0.  HYDROGRAPH PLOT SCALE

            SUBBASIN RUNOFF DATA

164 BA        SUBBASIN CHARACTERISTICS
                TAREA      .27  SUBBASIN AREA

              PRECIPITATION DATA

165 PB          STORM     4.60  BASIN TOTAL PRECIPITATION

 12 PI          INCREMENTAL PRECIPITATION PATTERN
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .01      .01      .01      .19      .19      .19      .03      .03      .03      .01
                .01      .01      .01      .01      .01      .01      .01      .01      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
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                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00

166 LS        SCS LOSS RATE
                STRTL        .37  INITIAL ABSTRACTION
               CRVNBR      84.30  CURVE NUMBER
                RTIMP       1.00  PERCENT IMPERVIOUS AREA

167 UD        SCS DIMENSIONLESS UNITGRAPH
                TLAG         .28  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                          10 END-OF-PERIOD ORDINATES
          146.      358.      288.      133.       65.       30.       14.        7.        3.        1.

   ***            ***            ***            ***            ***

                  HYDROGRAPH AT STATION       F3

  TOTAL RAINFALL =    4.60, TOTAL LOSS =    1.65, TOTAL EXCESS =    2.95

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                 6-HR       24-HR       72-HR     24.00-HR
   467.       6.17       (CFS)      71.         21.         21.         21.
                        (INCHES)   2.448       2.939       2.939       2.939
                        (AC-FT)     35.         42.         42.         42.

                  CUMULATIVE AREA =     .27 SQ MI

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
174 KK    *        F4  *
          *            *
          **************

176 KO        OUTPUT CONTROL VARIABLES
                IPRNT          3  PRINT CONTROL
                IPLOT          0  PLOT CONTROL
                QSCAL         0.  HYDROGRAPH PLOT SCALE

            SUBBASIN RUNOFF DATA

177 BA        SUBBASIN CHARACTERISTICS
                TAREA        .14  SUBBASIN AREA

              PRECIPITATION DATA

178 PB          STORM       4.60  BASIN TOTAL PRECIPITATION

 12 PI          INCREMENTAL PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
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.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.01     .01     .01     .19     .19     .19     .03     .03     .03     .01
.01     .01     .01     .01     .01     .01     .01     .01     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00

179 LS      SCS LOSS RATE
                STRTL        .37  INITIAL ABSTRACTION
               CRVNBR      84.30  CURVE NUMBER
                RTIMP        .00  PERCENT IMPERVIOUS AREA

180 UD      SCS DIMENSIONLESS UNITGRAPH
                TLAG        .22  LAG

                                        ***

                                   UNIT HYDROGRAPH
                              9 END-OF-PERIOD ORDINATES
        127.     222.     115.     47.     19.     8.     3.     1.     0.

   ***          ***          ***          ***          ***

                HYDROGRAPH AT STATION      F4

 AL RAINFALL =    4.60, TOTAL LOSS =    1.67, TOTAL EXCESS =    2.93

PEAK FLOW    TIME                      MAXIMUM AVERAGE FLOW
  (CFS)      (HR)              6-HR      24-HR      72-HR    24.00-HR
   249.      6.00      (CFS)    37.        11.        11.        11.
                     (INCHES)  2.439      2.925      2.925      2.925
                      (AC-FT)   18.        22.        22.        22.

                CUMULATIVE AREA =     .14 SQ MI

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

        **************
        *            *
187 KK  *        F5  *
        *            *
        **************

189 KO      OUTPUT CONTROL VARIABLES
                IPRNT         3  PRINT CONTROL
                IPLOT         0  PLOT CONTROL
                QSCAL        0.  HYDROGRAPH PLOT SCALE

        SUBBASIN RUNOFF DATA

190 BA      SUBBASIN CHARACTERISTICS
                TAREA       .68  SUBBASIN AREA

            PRECIPITATION DATA
```

```
191 PB              STORM        4.60  BASIN TOTAL PRECIPITATION

 12 PI           INCREMENTAL PRECIPITATION PATTERN
                    .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                    .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                    .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                    .01       .01       .01       .19       .19       .19       .03       .03       .03       .01
                    .01       .01       .01       .01       .01       .01       .01       .01       .00       .00
                    .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                    .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                    .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                    .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                    .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                    .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                    .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                    .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                    .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                    .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                    .00       .00       .00       .00

192 LS          SCS LOSS RATE
                     STRTL        .30  INITIAL ABSTRACTION
                    CRVNBR      86.80  CURVE NUMBER
                     RTIMP        .00  PERCENT IMPERVIOUS AREA

193 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG        .84  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                          27 END-OF-PERIOD ORDINATES
              31.       94.      195.      300.      352.      353.      315.      262.      190.      138.
             102.       78.       58.       43.       32.       24.       18.       13.       10.        7.
               5.        4.        3.        2.        2.        1.        0.

     ***            ***            ***            ***            ***

                      HYDROGRAPH AT STATION       F5

   TOTAL RAINFALL =    4.60, TOTAL LOSS =    1.43, TOTAL EXCESS =    3.17

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
  (CFS)       (HR)                  6-HR       24-HR       72-HR     24.00-HR
   671.       6.67        (CFS)     191.         57.         57.         57.
                         (INCHES)  2.615       3.142       3.142       3.142
                         (AC-FT)    95.        114.        114.        114.

                      CUMULATIVE AREA =     .68 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
200 KK    *        F6  *
          *            *
          **************

202 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          3  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE
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SUBBASIN RUNOFF DATA

203 BA SUBBASIN CHARACTERISTICS

TAREA .49 SUBBASIN AREA

PRECIPITATION DATA

204 PB STORM 4.60 BASIN TOTAL PRECIPITATION

12 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.01	.01	.01	.19	.19	.19	.03	.03	.03	.01
.01	.01	.01	.01	.01	.01	.01	.01	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00						

205 LS SCS LOSS RATE

STRTL .37 INITIAL ABSTRACTION

CRVNBR 84.30 CURVE NUMBER

RTIMP .00 PERCENT IMPERVIOUS AREA

206 UD SCS DIMENSIONLESS UNITGRAPH

TLAG .35 LAG

***

UNIT HYDROGRAPH

12 END-OF-PERIOD ORDINATES

160.	490.	524.	347.	174.	96.	51.	27.	15.	8.
5.	2.								

*** *** *** *** ***

HYDROGRAPH AT STATION F6

TOTAL RAINFALL = 4.60, TOTAL LOSS = 1.67, TOTAL EXCESS = 2.93

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.00-HR
759.	6.17	(CFS)	128.	38.	38.	38.
		(INCHES)	2.429	2.920	2.920	2.920
		(AC-FT)	63.	76.	76.	76.

CUMULATIVE AREA = .49 SQ MI

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* *

342 KK * E *

* *

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344 KO OUTPUT CONTROL VARIABLES

IPRNT	3	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

SUBBASIN RUNOFF DATA

345 BA SUBBASIN CHARACTERISTICS

TAREA	1.11	SUBBASIN AREA

PRECIPITATION DATA

346 PB

STORM	4.60	BASIN TOTAL PRECIPITATION

12 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.01	.01	.01	.19	.19	.19	.03	.03	.03	.01
.01	.01	.01	.01	.01	.01	.01	.01	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00						

3 SCS LOSS RATE

STRTL	.36	INITIAL ABSTRACTION
CRVNBR	84.60	CURVE NUMBER
RTIMP	.00	PERCENT IMPERVIOUS AREA

348 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	.60	LAG

***

UNIT HYDROGRAPH
20 END-OF-PERIOD ORDINATES

110.	354.	673.	785.	721.	564.	358.	239.	164.	110.
74.	50.	33.	22.	15.	10.	7.	5.	3.	1.

*** *** *** *** ***

HYDROGRAPH AT STATION E

TOTAL RAINFALL = 4.60, TOTAL LOSS = 1.64, TOTAL EXCESS = 2.96

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.00-HR
1262.	6.50	(CFS)	291.	88.	88.	88.
		(INCHES)	2.440	2.940	2.940	2.940
		(AC-FT)	144.	174.	174.	174.

CUMULATIVE AREA = 1.11 SQ MI

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              **************
              *            *
352 KK        *         2  *
              *            *
              **************

354 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          3  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

355 BA          SUBBASIN CHARACTERISTICS
                      TAREA       1.06  SUBBASIN AREA

                PRECIPITATION DATA

356 PB                STORM       4.60  BASIN TOTAL PRECIPITATION

 12 PI            INCREMENTAL PRECIPITATION PATTERN
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .01       .01       .01       .19       .19       .19       .03       .03       .03       .01
                      .01       .01       .01       .01       .01       .01       .01       .01       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00

357 LS          SCS LOSS RATE
                      STRTL        .28  INITIAL ABSTRACTION
                     CRVNBR      87.70  CURVE NUMBER
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

358 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG        .96  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                         31 END-OF-PERIOD ORDINATES
              35.      105.      214.      355.      456.      489.      481.      430.      364.      276.
             206.      158.      124.       96.       73.       57.       44.       34.       26.       20.
              15.       12.        9.        7.        5.        4.        4.        3.        2.        1.
               0.

    ***          ***          ***          ***          ***

                     HYDROGRAPH AT STATION        2

 TOTAL RAINFALL =    4.60, TOTAL LOSS =    1.34, TOTAL EXCESS =    3.26

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
 (CFS)        (HR)                  6-HR       24-HR       72-HR     24.00-HR
  985.        6.83        (CFS)     306.         92.         92.         92.
                         (INCHES)  2.686       3.226       3.226       3.226
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                (AC-FT)      152.        182.        182.        182.

                CUMULATIVE AREA =    1.06 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
362 KK    *         1  *
          *            *
          **************

364 KO          OUTPUT CONTROL VARIABLES
                     IPRNT           3  PRINT CONTROL
                     IPLOT           0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

             SUBBASIN RUNOFF DATA

365 BA          SUBBASIN CHARACTERISTICS
                     TAREA         .66  SUBBASIN AREA

                PRECIPITATION DATA

366 PB               STORM        4.60  BASIN TOTAL PRECIPITATION

 12 PI            INCREMENTAL PRECIPITATION PATTERN
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .01       .01       .01       .19       .19       .19       .03       .03       .03       .01
                     .01       .01       .01       .01       .01       .01       .01       .01       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00

367 LS          SCS LOSS RATE
                     STRTL         .34  INITIAL ABSTRACTION
                    CRVNBR       85.50  CURVE NUMBER
                     RTIMP         .00  PERCENT IMPERVIOUS AREA

368 UD          SCS DIMENSIONLESS UNITGRAPH
                      TLAG         .63  LAG

                                                  ***

                                              UNIT HYDROGRAPH
                                          21 END-OF-PERIOD ORDINATES
             58.      187.      367.      444.      424.      348.      234.      156.      108.       74.
             50.       34.       23.       16.       11.        8.        5.        4.        3.        1.
              0.

    ***          ***          ***          ***          ***

                 HYDROGRAPH AT STATION        1
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TOTAL RAINFALL = 4.60, TOTAL LOSS = 1.55, TOTAL EXCESS = 3.05

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.00-HR
[illegible]	6.50	(CFS)	179.	54.	54.	54.
		(INCHES)	2.516	3.023	3.023	3.023
		(AC-FT)	89.	106.	106.	106.

CUMULATIVE AREA = .66 SQ MI

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	70	1899.	6.83	581.	176.	176.	2.20		
HYDROGRAPH AT	80	1107.	6.83	340.	104.	104.	1.35		
2 COMBINED AT	80T	3006.	6.83	921.	280.	280.	3.55		
ROUTED TO	G	2957.	7.00	918.	278.	278.	3.55		
HYDROGRAPH AT	G	1463.	6.17	245.	74.	74.	.89		
2 COMBINED AT	GT	3406.	6.83	1156.	352.	352.	4.44		
HYDROGRAPH AT	60	836.	6.17	148.	45.	45.	.59		
2 COMBINED AT	60T	3749.	6.67	1304.	397.	397.	5.03		
HYDROGRAPH AT	50	1023.	6.67	299.	91.	91.	1.15		
2 COMBINED AT	50T	4772.	6.67	1602.	487.	487.	6.18		
ROUTED TO	40MT	4747.	6.67	1602.	487.	487.	6.18		
HYDROGRAPH AT	44	898.	6.17	164.	49.	49.	.62		
ROUTED TO	42T	880.	6.33	165.	49.	49.	.62		
HYDROGRAPH AT	43	1787.	6.33	375.	113.	113.	1.39		
ROUTED TO	42T	1744.	6.33	376.	113.	113.	1.39		
HYDROGRAPH AT	42	218.	6.00	25.	8.	8.	.11		
3 COMBINED AT	42T	2692.	6.33	565.	170.	170.	2.12		
ROUTED TO	41T	2638.	6.50	562.	169.	169.	2.12		
HYDROGRAPH AT	41	1095.	6.33	229.	69.	69.	.89		
2 COMBINED AT	41T	3669.	6.50	788.	238.	238.	3.01		
ROUTED TO	40T	3607.	6.67	780.	235.	235.	3.01		
HYDROGRAPH AT	40	641.	6.33	142.	43.	43.	.58		
2 COMBINED AT	40T	4143.	6.67	912.	278.	278.	3.59		
2 COMBINED AT	40MT	8890.	6.67	2512.	765.	765.	9.77		
ROUTED TO	F1T	8692.	6.67	2511.	764.	764.	9.77		
HYDROGRAPH AT	F1	482.	6.17	72.	21.	21.	.26		
2 COMBINED AT	F1T	8833.	6.67	2578.	785.	785.	10.03		
ROUTED TO	F2T	8758.	6.83	2579.	786.	786.	10.03		
HYDROGRAPH AT	F2	488.	6.50	113.	34.	34.	.46		

2 COMBINED AT	F2T	9171.	6.67	2691.	820.	820.	10.49
ROUTED TO	30T	9123.	6.83	2692.	820.	820.	10.49
HYDROGRAPH AT	30	539.	6.50	130.	39.	39.	.50
2 COMBINED AT	30T	9560.	6.83	2822.	859.	859.	10.99
ROUTED TO	F3T	9552.	6.83	2821.	859.	859.	10.99
HYDROGRAPH AT	F3	467.	6.17	71.	21.	21.	.27
2 COMBINED AT	F3T	9657.	6.83	2889.	880.	880.	11.26
ROUTED TO	F4T	9602.	6.83	2885.	879.	879.	11.26
HYDROGRAPH AT	F4	249.	6.00	37.	11.	11.	.14
2 COMBINED AT	F4T	9644.	6.83	2919.	890.	890.	11.40
ROUTED TO	F5T	9600.	6.83	2919.	890.	890.	11.40
HYDROGRAPH AT	F5	671.	6.67	191.	57.	57.	.68
2 COMBINED AT	F5T	10259.	6.83	3110.	948.	948.	12.08
ROUTED TO	F6T	10027.	7.00	3100.	944.	944.	12.08
HYDROGRAPH AT	F6	759.	6.17	128.	38.	38.	.49
2 COMBINED AT	F6T	10221.	6.83	3214.	982.	982.	12.57
HYDROGRAPH AT	25	2191.	6.17	388.	116.	116.	1.41
HYDROGRAPH AT	24	3853.	6.33	815.	244.	244.	2.91
2 COMBINED AT	24T	5927.	6.33	1203.	360.	360.	4.32
ROUTED TO	23T	5706.	6.83	1173.	352.	352.	4.32
HYDROGRAPH AT	23	2314.	6.33	467.	140.	140.	1.71
2 COMBINED AT	23T	7187.	6.67	1617.	492.	492.	6.03
ROUTED TO	22T	7024.	7.17	1597.	484.	484.	6.03
HYDROGRAPH AT	22	712.	6.33	139.	42.	42.	.51
2 COMBINED AT	22T	7213.	7.17	1701.	526.	526.	6.54
ROUTED TO	21T	7098.	7.67	1692.	517.	517.	6.54
HYDROGRAPH AT	21	581.	6.50	137.	41.	41.	.51
ROUTED TO	20T	566.	7.00	135.	41.	41.	.51
HYDROGRAPH AT	20	757.	6.50	171.	52.	52.	.68
3 COMBINED AT	20T	7534.	7.67	1930.	609.	609.	7.73
2 COMBINED AT	20MT	13541.	7.67	5144.	1591.	1591.	20.30
ROUTED TO	10MT	13433.	7.67	5145.	1591.	1591.	20.30
HYDROGRAPH AT	14	1590.	6.33	353.	106.	106.	1.25

ROUTED TO	13T	1587.	6.50	351.	105.	105.	1.25
HYDROGRAPH AT	13	199.	6.17	32.	10.	10.	.15
2 COMBINED AT	13T	1701.	6.50	382.	115.	115.	1.40
HYDROGRAPH AT	12	2348.	6.50	529.	158.	158.	1.89
2 COMBINED AT	12T	4049.	6.50	910.	273.	273.	3.29
ROUTED TO	11A	3967.	6.67	902.	270.	270.	3.29
HYDROGRAPH AT	11A	621.	6.17	94.	28.	28.	.37
2 COMBINED AT	11AT	4179.	6.67	985.	299.	299.	3.66
HYDROGRAPH AT	11	1092.	6.50	269.	81.	81.	.99
2 COMBINED AT	11T	5232.	6.67	1253.	379.	379.	4.65
ROUTED TO	10T	5070.	7.00	1239.	374.	374.	4.65
HYDROGRAPH AT	10	1093.	6.50	263.	79.	79.	.96
2 COMBINED AT	10T	5763.	7.00	1475.	453.	453.	5.61
2 COMBINED AT	10MT	16962.	7.00	6620.	2044.	2044.	25.91
ROUTED TO	ET	16861.	7.67	6515.	2002.	2002.	25.91
HYDROGRAPH AT	E	1262.	6.50	291.	88.	88.	1.11
2 COMBINED AT	ET	17136.	7.67	6636.	2090.	2090.	27.02
HYDROGRAPH AT	2	985.	6.83	306.	92.	92.	1.06
ROUTED TO	1T	979.	7.33	303.	91.	91.	1.06
HYDROGRAPH AT	1	756.	6.50	179.	54.	54.	.66
2 COMBINED AT	IT	1305.	7.17	473.	144.	144.	1.72

SUMMARY OF KINEMATIC WAVE ROUTING
(FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

ISTAQ	ELEMENT	DT (MIN)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)	INTERPOLATED TO COMPUTATION INTERVAL DT (MIN)	PEAK (CFS)	TIME TO PEAK (MIN)	VOLUME (IN)
G	3	1.48	3003.59	415.69	2.92	10.00	2957.17	420.00	2.92

CONTINUITY SUMMARY (AC-FT) - INFLOW= 554.538 EXCESS= .000 OUTFLOW= 552.860 BASIN STORAGE= 1.488 PERCENT ERROR= .034

40MT	3	.62	4771.58	401.22	2.93	10.00	4747.14	400.00	2.93

CONTINUITY SUMMARY (AC-FT) - INFLOW= 966.267 EXCESS= .000 OUTFLOW= 965.663 BASIN STORAGE= .542 PERCENT ERROR= .006

42T	3	1.09	896.75	372.89	2.96	10.00	879.65	380.00	2.97

CONTINUITY SUMMARY (AC-FT) - INFLOW= 97.735 EXCESS= .000 OUTFLOW= 98.010 BASIN STORAGE= .130 PERCENT ERROR= -.414

42T	3	.68	1784.20	381.28	3.01	10.00	1743.78	380.00	3.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= 223.457 EXCESS= .000 OUTFLOW= 223.253 BASIN STORAGE= .170 PERCENT ERROR= .015

41T	3	1.85	2691.50	387.43	2.96	10.00	2638.23	390.00	2.96

CONTINUITY SUMMARY (AC-FT) - INFLOW= 336.968 EXCESS= .000 OUTFLOW= 335.079 BASIN STORAGE= 1.306 PERCENT ERROR= .173

40T	3	1.61	3657.58	404.73	2.91	10.00	3607.43	400.00	2.90

CONTINUITY SUMMARY (AC-FT) - INFLOW= 471.744 EXCESS= .000 OUTFLOW= 467.572 BASIN STORAGE= 3.243 PERCENT ERROR= .197

F1T	3	1.37	8863.40	403.57	2.91	10.00	8691.56	400.00	2.91

CONTINUITY SUMMARY (AC-FT) - INFLOW= 1517.886 EXCESS= .000 OUTFLOW= 1515.293 BASIN STORAGE= 1.894 PERCENT ERROR= .046

F2T	3	.43	8831.46	401.09	2.91	10.00	8757.89	410.00	2.91

CONTINUITY SUMMARY (AC-FT) - INFLOW= 1557.937 EXCESS= .000 OUTFLOW= 1557.271 BASIN STORAGE= .569 PERCENT ERROR= .006

30T	3	.68	9168.82	401.69	2.90	10.00	9123.46	410.00	2.91

CONTINUITY SUMMARY (AC-FT) - INFLOW= 1626.067 EXCESS= .000 OUTFLOW= 1624.981 BASIN STORAGE= .945 PERCENT ERROR= .009

F3T	3	.84	9559.48	411.56	2.90	10.00	9551.84	410.00	2.91

CONTINUITY SUMMARY (AC-FT) - INFLOW= 1704.221 EXCESS= .000 OUTFLOW= 1702.528 BASIN STORAGE= 1.229 PERCENT ERROR= .027

F4T	3	1.25	9639.20	411.69	2.90	10.00	9601.81	410.00	2.90

CONTINUITY SUMMARY (AC-FT) - INFLOW= 1746.116 EXCESS= .000 OUTFLOW= 1743.638 BASIN STORAGE= 1.894 PERCENT ERROR= .033

F5T	3	.42	9642.92	410.85	2.90	10.00	9600.01	410.00	2.90

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CONTINUITY SUMMARY (AC-FT) - INFLOW= 1765.501 EXCESS=     .000 OUTFLOW= 1764.632 BASIN STORAGE=     .642 PERCENT ERROR=     .013

          F6T     3       1.54  10255.95    414.57      2.91     10.00  10027.05    420.00        2.91

CONTINUITY SUMMARY (AC-FT) - INFLOW= 1879.714 EXCESS=     .000 OUTFLOW= 1873.689 BASIN STORAGE=    3.989 PERCENT ERROR=     .108

          23T     3       1.66   5901.79    406.11      3.05     10.00   5705.73    410.00        3.03

CONTINUITY SUMMARY (AC-FT) - INFLOW=  714.419 EXCESS=     .000 OUTFLOW=  703.669 BASIN STORAGE=    9.270 PERCENT ERROR=     .207

          22T     3       1.67   7148.75    423.42      2.99     10.00   7024.40    430.00        2.98

CONTINUITY SUMMARY (AC-FT) - INFLOW=  976.277 EXCESS=     .000 OUTFLOW=  962.074 BASIN STORAGE=   12.884 PERCENT ERROR=     .135

          21T     3       1.68   7150.67    459.19      2.94     10.00   7098.12    460.00        2.94

CONTINUITY SUMMARY (AC-FT) - INFLOW= 1042.579 EXCESS=     .000 OUTFLOW= 1023.940 BASIN STORAGE=   17.331 PERCENT ERROR=     .125

          20T     3       3.26    575.74    417.54      2.97     10.00    565.58    420.00        2.97

CONTINUITY SUMMARY (AC-FT) - INFLOW=   82.073 EXCESS=     .000 OUTFLOW=   80.800 BASIN STORAGE=    1.000 PERCENT ERROR=     .333

         10MT     3        .38  13530.48    460.81      2.91     10.00  13432.91    460.00        2.92

CONTINUITY SUMMARY (AC-FT) - INFLOW= 3156.599 EXCESS=     .000 OUTFLOW= 3155.174 BASIN STORAGE=    1.111 PERCENT ERROR=     .010

          13T     3       2.64   1587.73    387.86      3.12     10.00   1586.90    390.00        3.12

CONTINUITY SUMMARY (AC-FT) - INFLOW=  209.371 EXCESS=     .000 OUTFLOW=  208.094 BASIN STORAGE=     .841 PERCENT ERROR=     .208

          11A     3       1.91   4029.99    402.55      3.06     10.00   3966.73    400.00        3.05

CONTINUITY SUMMARY (AC-FT) - INFLOW=  541.104 EXCESS=     .000 OUTFLOW=  536.934 BASIN STORAGE=    3.434 PERCENT ERROR=     .136

          10T     3       1.79   5204.37    424.08      2.99     10.00   5070.08    420.00        2.99

CONTINUITY SUMMARY (AC-FT) - INFLOW=  752.292 EXCESS=     .000 OUTFLOW=  742.268 BASIN STORAGE=    8.981 PERCENT ERROR=     .139

           ET     3       1.37  16960.74    458.32      2.88     10.00  16861.10    460.00        2.87

CONTINUITY SUMMARY (AC-FT) - INFLOW= 4054.182 EXCESS=     .000 OUTFLOW= 3975.912 BASIN STORAGE=   79.873 PERCENT ERROR=    -.040

           1T     3       2.81    983.43    438.52      3.18     10.00    979.48    440.00        3.18

CONTINUITY SUMMARY (AC-FT) - INFLOW=  182.373 EXCESS=     .000 OUTFLOW=  179.560 BASIN STORAGE=    2.353 PERCENT ERROR=     .252


NORMAL END OF HEC-1 ***
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APACHE WASH