5062 North 19th Avenue
Phoenix, Arizona 85015
(602) 242-2999

CELLA BARR
ASSOCIATES

RECEIVED
DEC 19 1989
ENGINEERING DIV.

December 11, 1989

Mr. Nemat Fazli
Flood Insurance Studies
Michael Baker Jr., Inc.
1420 King Street, Sixth Floor
Alexandra, Virginia 22314-2788

Re: Cave Creek Wash Flood Insurance Re-Studies
Maricopa County, Arizona
CBA File No. 04856-05-79

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

Dear Mr. Fazli:

This letter addresses concerns and comments expressed in a letter submitted to Mr. Nicholas B. Nikas of FEMA (see attached) dated August 30, 1989 by the Maricopa County Flood Control District (MCFCD) regarding the Cave Creek Floodplain/Floodway. The following are replies to their comments along with the course of action taken:

1. Comment (paraphrased): The "artificially" high grade elevations set for cross sections 2.51 to 2.94, starting at GR Station 1000, which is at the boundary between the Salt River and Cave Creek Wash, provides for a containment of 100 percent of the flow path. MCFCD performed a preliminary split flow analysis that indicated a strong possibility for significant spillover of the Cave Creek Wash discharge to occur along this reach. This spillover would leave the system, spilling southerly to enter the Salt River and would appreciably lower downstream discharges for Cave Creek Wash.

   Response: As described in their letter to FEMA, the MCFCD developed an alternative hydraulic analysis to model split flow that may occur for the reach of Cave Creek Wash between cross-sections 2.51 and 2.94. Upon review of the MCFCD analysis, CBA also developed a revised HEC-2 model to evaluate the split flow possibility in more detail. The MCFCD and the CBA model both identified a primary location where most of the spillover would be likely to occur, this being the southeast corner of Lower Buckeye Road and 35th Avenue roughly between cross sections 2.86 and 3.04. A secondary spillover location was also identified between cross sections 2.51 and 2.60 near the Salt River floodplain limit. CBA and MCFCD examined these two spillover areas during a joint field investigation and concluded that physical obstructions would preclude any significant spillover from occurring at these locations. These physical obstructions consisted of continuous walls, buildings, and extensive stockpiles of car bodies and other non-floatable demolition materials. Therefore, it was generally concluded by both parties that the amount of spillover flow was minor and did not merit revisions to the approved discharges for this study.

However, an error in the hydraulic modelling of the left overbank area for this reach was also identified during the field investigation as the work maps were reviewed. This error consisted of the artificially high grade elevations set at the beginning of the cross-sections along the alignment of the Salt River floodplain that were determined to contain flow within an artificially deep cross-sectional area within the left overbank. The resulting water surface elevations were not reflective of a positive grade to the south where sheet flow would simply enter the Salt River floodplain under current field conditions. Therefore, revisions to the HEC-2 computer model have been made to reflect a more accurate assessment of the topography for this reach. The following are assumptions provided for in the revised model.

A. The split flow that occurs between cross-sections 2.51 to 2.94 is not significant and has not been modeled.

B. The containment limit for Cave Creek Wash was adjusted by creating a zone break line (revised detail study limit) along an alignment that follows existing topographic highs instead of the boundary along the Salt River floodplain as previously modeled.

C. The modeled flow was contained within the limits of the zone break line by reducing the length of the applicable cross-sections and setting G.R. stations at the beginning of cross-sections to artificially high grade elevations.

D. Minor spillover flooding will still occur in the area between the zone break line and the Salt River floodplain, but has not been studied in detail. Therefore, a Flood Insurance Rate Zone A classification has been assigned to this area.

E. It is our understanding that a floodway designation will not be made for Cave Creek Wash; therefore, the revised model does not provide for a floodway encroachment.

The above decisions were discussed with and approved by FEMA's Project Officer for this study. Revised work maps and HEC-2 computer model printouts are attached. To avoid confusion, the previously submitted floodway limits have been deleted from these work maps (sheets 3 and 4) which include the revised reach.

2. Comment (paraphrased): The Flood Insurance Rate Zone of AH assigned to the shallow flooding study area of Cave Creek Wash (North of the Grand Canal) may not be appropriate or consistent with the shallow flooding depths determined in the study.

Response: The shallow flooding study of Cave Creek Wash determined the following:

A. Primary flow paths are generally within and adjacent to roadways.

B. Depths of shallow flooding range between approximately 0.5. and 1.7 feet.

C. Average depth of shallow flooding is one foot or less.

D. Depths of flooding immediately upstream of the Grand Canal between 7th and 15th Avenues range between approximately 1.7 and 4 feet.

The varying depths of flooding determined in the shallow flooding study for Cave Creek Wash would conceivably allow for proportionment of floodplain classifications among Flood Insurance Rate Zones AH, AO and/or X. However, many areas are closely interconnected. CBA has used a classification of AH for floodplains delineated by the shallow flooding study to provide base flood elevations and as premised by earlier meetings with the City of Phoenix, MCFCD, and FEMA. However, a classification of AO or X may also be considered to be applicable to some of these areas. CBA feels that since the AH classification is technically correct, the use of other Flood Insurance Rate Zones is a policy issue requiring resolution by others.

We hope that this letter and revisions will serve to further clarify certain aspects of the Cave Creek Wash Re-Study, particularly in consideration of MCFCD's letter of August 30, 1989. Should you have any questions regarding this submittal, please feel free to call.

Sincerely,

CELLA BARR ASSOCIATES

James H. Nelson, P.E.
Project Manager

Patrick J. Ellison
Senior Hydrologist

cc: Mr. Ray Lenaburg, FEMA
Mr. Joe Tram, MCFCD
Ms. Jan Farmer, MCFCD
Mr. Bill Boring, City of Phoenix
Mr. John Wise, CBA
Mr. Patrick Ellison, CBA

JHN00402.79L\ef

04856-05-79
To: J. Wise, CBA
P. Ellison, CBA
File
From: [illegible]

FLOOD CONTROL DISTRICT of MARICOPA COUNTY 1959

AUG 31 1989

FLOOD CONTROL DISTRICT
of
Maricopa County

3335 West Durango Street • Phoenix, Arizona 85009
Telephone (602) 262-1501

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AUG 30 1989

Mr. Nicholas B. Nikas
Division Chief
Natural & Technological Hazards
Federal Emergency Management Agency, Region IX
Presidio of San Francisco, Building 105
San Francisco, California 94129

SUBJECT: Cave Creek Floodplain/Floodway

Dear Mr. Nikas:

This is in reference to our meeting of June 20, 1989 and the City of Phoenix reply dated July 5, 1989, topic number two, enclosure 1.

A preliminary split flow analysis, enclosure 2, of the Cave Creek Wash for the reach between 35th Avenue and 39th Avenue has been prepared for your review and consideration. This analysis takes into consideration the natural grade through the identified reach, eliminating "artificial barriers" set along the left overbank of Cave Creek Wash allowing some flow to continue southwest into the Salt River. We also considered the actual effective conveyance areas to break out into three defined floodplains through this reach. This was determined by identifying high natural grade elevations and from the flow distribution for each cross-section. Our preliminary analysis suggests that approximately 1,800 cfs of the Cave Creek Wash 100-year discharge flows to the southwest into the Salt River. The remaining reach of the Cave Creek Wash is characterized with low velocities and depth of flow less than one foot.

A copy of this letter, plotted cross-sections and the HEC2 data is being sent to Allen Johnson of FEMA for their review to see if it should be incorporated into the study. We believe that an analysis that considers the actual grade and flow distribution for each of the cross-sections through this reach will provide a representative flow regime, decreasing the flood hazard area for the Cave Creek Wash from 35th Avenue to the Salt River.

In addition, the floodplain delineations north of the Grand Canal are based upon approximate field studies without actual modeling of the hydraulic cross-section. Numerous cross-sections indicate depth of flow less than one foot. Please note cross-sections SBC to SBD, SCB to SCJ, SDB to SDD, SEB to SEG, SFA to SFD and SGA to SGE, approximately three linear miles of floodplain identified as "AH" with depths of flow ranging below a half foot. The determined depths would indicate that this area should be a "Zone X" or an "area of 100-year flooding where average depths are less than one foot." The Flood Control District and the City of Phoenix both concurred that the area north of the Grand Canal would be more accurate if identified as "Zone X."

We ask that you review the enclosed information and respond to our concerns. If you should have any questions, please call Jan Farmer of my staff or me at (602) 262-1501.

Sincerely,

Joe Tram

Joe Tram
Floodplain Branch, Supervisor

Enclosures (4)

Copy to: John Matticks, Risk Studies Division, FIA
Allen Johnson, Risk Studies Division, FIA
Ray Lenaburg, FEMA-Region IX
Paul Kienow, P.E., City of Phoenix
Bill Boring, P.E., City of Phoenix
Jim Nelson, P.E., Cella Barr Associates
Jim Morris, P.E., Arizona Department of Water Resources

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*****************************************************
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*  WATER SURFACE PROFILES                           *
*
*  VERSION OF NOVEMBER 1976                         *
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*  UPDATED MAY 1984                                 *
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*                                                   *
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*  RUN DATE FRI. DEC 08 1989 TIME 10:45:37          *
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* U.S. ARMY CORPS OF ENGINEERS
* THE HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET, SUITE D
* DAVIS, CALIFORNIA 95616
* (916) 440-2105 (FTS) 448-2105
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X     X  XXXXXXX   XXXXX            XXXXX
X     X  X       X     X          X     X
X     X  X       X                      X
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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
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C
T1    FEMA FLOOD INSURANCE RE-STUDY              CELLA BARR ASSOCIATES
T2    OF MARICOPA COUNTY, ARIZONA                 5062 N. 19th AVENUE
T3    CAVE CREEK WASH JOB #04856-05-75            PHOENIX, ARIZONA  85015

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     C         WSEL      FQ

       0.        2.        3.        0.  0.000000      0.00       0.0        0.  1011.000     0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH      FN       ALLDC     IBW       CHNIM     ITRACE

     0.000     0.000    -1.000     0.000     0.000     0.000     0.000     0.000     0.000    15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT
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     150.000   200.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000

OT     2.000  2257.000  2257.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
NC     0.000     0.000     0.000     0.100     0.300     0.000     0.000     0.000     0.000     0.000
NH     4.000     0.035  2999.900     0.030  3550.200     0.040  3627.600     0.030  3683.200     0.000
        THIS MODEL IS A REVISED FLOOD PLAIN MODEL FOR THE REACH OF CAVE CREEK
        WASH EXTENDING  FROM THE SALT RIVER TO CROSS SECTION 4.79. REVISED
        12/6/89.
X1     0.060    32.000  1290.000  1599.900     0.000     0.000     0.000     0.000     0.000     0.000
GR  1012.500  1000.000  1006.400  1194.100  1005.700  1199.900  1003.000  1246.400  1002.000  1290.000
GR   997.700  1393.300   997.800  1399.900   999.500  1471.500   990.600  1483.200   999.000  1563.200
GR  1000.400  1599.900  1003.000  1799.900  1003.300  1847.900   995.800  1999.900   995.500  2105.600
GR  1003.700  2164.900  1004.900  2199.900  1004.900  2222.300  1007.000  2254.000  1007.100  2327.500
GR  1006.900  2399.900  1008.100  2599.900  1008.100  2799.900  1007.900  2999.900  1006.500  3199.900
GR  1006.700  3399.900  1008.800  3550.200  1009.200  3576.400  1010.900  3599.900  1011.100  3602.900
GR  1011.300  3627.600  1012.500  3683.200     0.000     0.000     0.000     0.000     0.000     0.000

NH     4.000     0.031  1180.000     0.030  2754.200     0.040  2825.400     0.030  2853.300     0.000
X1     0.100    28.000  1180.000  1454.300   170.000   850.000   230.000     0.000     0.000     0.000
GR  1013.100  1000.000  1013.400  1146.100  1012.000  1180.000  1006.900  1454.300  1048.100  1524.700
GR  1048.600  1551.000  1041.500  1568.900  1042.800  1579.300  1041.500  1588.000  1042.800  1596.200
GR  1041.900  1599.900  1041.400  1602.100  1042.500  1641.400  1042.400  1736.100  1017.200  1799.900
GR  1009.200  1814.100  1009.100  1899.900  1008.800  2199.900  1008.400  2399.900  1008.100  2508.100
GR  1007.000  2599.900  1008.000  2660.900  1009.000  2701.600  1012.400  2754.200  1012.100  2783.900
GR  1012.600  2799.900  1013.300  2825.400  1018.700  2853.300     0.000     0.000     0.000     0.000
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NH     4.000     0.030  1925.000     0.040  2059.900     0.045  2330.900     0.035  3221.900     0.000
X1     0.150    27.000  1300.000  1925.000   190.000   630.000   250.000     0.000     0.000     0.000
GR  1014.900  1000.000  1013.600  1199.900  1011.000  1300.000  1010.300  1925.000  1009.700  1999.900
GR  1009.500  2059.900  1010.700  2082.300  1010.200  2138.200  1009.200  2174.300  1010.700  2199.500
GR  1010.700  2199.900  1010.800  2214.300  1008.400  2222.300  1011.200  2236.500  1010.300  2253.000
GR  1010.300  2314.100  1010.900  2330.900  1010.700  2399.900  1010.800  2438.400  1013.400  2466.600
GR  1011.800  2488.700  1011.500  2586.300  1011.700  2599.900  1012.100  2799.900  1013.000  2999.900
GR  1013.500  3199.900  1013.700  3221.900     0.000     0.000     0.000     0.000     0.000     0.000

NH     4.000     0.030  1216.500     0.040  1907.900     0.045  2260.500     0.035  3556.900     0.000
X1     0.190    30.000  1199.900  1907.900   180.000   530.000   210.000     0.000     0.000     0.000
GR  1015.800  1000.000  1012.000  1100.000  1011.500  1157.800  1010.400  1199.900  1010.100  1216.500
GR  1009.100  1227.700  1012.200  1259.900  1010.900  1399.900  1010.600  1599.900  1010.500  1799.900
GR  1010.600  1834.900  1010.400  1907.900  1010.600  1999.900  1010.300  2017.200  1010.700  2044.500
GR  1012.900  2053.000  1012.100  2069.800  1008.100  2079.100  1013.400  2091.000  1010.900  2110.100
GR  1012.200  2199.900  1013.400  2231.100  1013.600  2260.500  1014.100  2399.900  1014.900  2599.900
GR  1015.600  2799.900  1016.300  2999.900  1017.400  3199.900  1016.500  3399.900  1016.100  3556.900

NH     4.000     0.030  1296.900     0.040  2090.000     0.045  2243.500     0.035  3163.100     0.000
X1     0.290    24.000  1599.900  1999.900   500.000   370.000   500.000     0.000     0.000     0.000
GR  1016.600  1264.200  1012.900  1296.900  1013.400  1319.800  1008.900  1346.400  1008.300  1397.700
GR  1008.400  1399.900  1012.400  1455.300  1011.500  1510.900  1011.600  1599.900  1011.200  1799.900
GR  1010.900  1999.900  1011.400  2090.000  1013.700  2148.300  1013.700  2157.900  1007.800  2171.000
GR  1012.500  2184.700  1012.600  2199.900  1012.600  2223.100  1012.100  2243.500  1013.000  2399.900
GR  1013.800  2599.900  1015.000  2799.900  1015.700  2999.900  1016.400  3163.100     0.000     0.000

NH     4.000     0.025  1199.900     0.040  1642.400     0.030  1999.900     0.035  3072.700     0.000
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X1	0.380	30.000	1799.900	1999.900	520.000	530.000	500.000	0.000	0.000	0.000
GR	1017.600	1000.000	1016.800	1052.000	1017.700	1079.200	1014.700	1199.900	1014.000	1214.900
GR	1016.000	1236.700	1015.100	1341.500	1009.400	1382.100	1009.800	1399.900	1010.100	1416.600
GR	1010.100	1458.000	1013.000	1514.900	1013.400	1599.900	1013.300	1629.200	1014.900	1642.400
GR	1010.300	1662.500	1012.100	1668.300	1011.900	1799.900	1012.100	1894.300	1012.700	1910.700
GR	1012.600	1954.200	1011.600	1966.700	1011.600	1999.900	1012.300	2199.900	1013.500	2399.900
GR	1014.400	2599.900	1015.400	2799.900	1016.000	2999.900	1016.700	3072.600	1016.700	3072.700
NH	4.000	0.040	1724.000	0.025	1830.700	0.035	2199.900	0.500	2987.400	0.000
X1	0.480	29.000	1599.900	1979.000	520.000	360.000	500.000	0.000	0.000	0.000
GR	1016.500	1000.000	1016.400	1092.200	1017.900	1112.000	1017.000	1123.500	1016.500	1130.700
GR	1015.000	1199.900	1013.600	1379.400	1014.400	1392.100	1012.600	1397.900	1013.500	1399.900
GR	1014.100	1405.800	1012.900	1428.800	1013.300	1599.900	1014.200	1701.000	1015.000	1712.500
GR	1014.000	1724.000	1014.600	1754.200	1014.400	1789.000	1013.400	1799.900	1013.400	1808.400
GR	1014.300	1817.000	1012.600	1830.700	1012.700	1979.000	1013.000	2199.900	1014.100	2399.900
GR	1015.500	2599.900	1016.200	2799.900	1016.700	2987.300	1016.700	2987.400	0.000	0.000
NH	4.000	0.040	1399.900	0.041	1799.900	0.040	2399.900	0.500	3279.900	0.000
X1	0.570	35.000	1672.900	2009.200	500.000	660.000	500.000	0.000	0.000	0.000
GR	1018.300	1000.000	1017.400	1097.500	1019.100	1108.600	1018.000	1123.700	1017.400	1140.800
GR	1017.400	1199.900	1016.200	1399.900	1014.600	1599.900	1014.300	1672.900	1014.900	1679.600
GR	1014.800	1689.400	1014.100	1699.400	1014.500	1799.900	1015.300	1999.900	1015.200	2009.200
GR	1013.300	2199.900	1013.400	2230.900	1013.600	2254.500	1011.700	2264.800	1010.000	2305.000
GR	1011.100	2347.900	1013.700	2399.900	1014.300	2403.300	1014.400	2414.400	1014.000	2420.000
GR	1015.200	2440.500	1015.400	2473.000	1013.800	2491.600	1015.300	2498.700	1014.400	2506.100
GR	1014.500	2599.900	1015.500	2799.900	1016.500	2999.900	1016.700	3199.900	1016.800	3279.900

NC	0.040	0.040	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	0.620	32.000	1708.100	1999.900	260.000	290.000	270.000	0.000	0.000	0.000
GR	1016.500	1000.000	1017.000	1150.200	1018.500	1165.200	1018.400	1178.100	1017.800	1184.800
GR	1017.500	1199.900	1016.900	1399.900	1015.200	1599.900	1014.500	1708.100	1015.300	1717.800
GR	1014.100	1719.900	1015.100	1725.900	1014.300	1737.600	1014.800	1799.900	1016.000	1999.900
GR	1015.500	2199.900	1013.300	2380.900	1013.300	2399.900	1013.800	2421.600	1013.700	2434.300
GR	1013.800	2474.600	1013.700	2530.400	1016.300	2551.300	1014.100	2565.300	1014.600	2599.900
GR	1015.900	2720.300	1018.000	2750.000	1019.500	2799.900	1018.300	2899.500	1015.400	2914.900
GR	1016.600	2938.200	1016.600	2944.400	0.000	0.000	0.000	0.000	0.000	0.000
NH	4.000	0.040	2700.000	0.030	2875.000	0.100	2999.900	0.100	3374.300	0.000
X1	0.660	25.000	1799.900	2155.000	210.000	250.000	225.000	0.000	0.000	0.000
GR	1017.600	1240.600	1019.100	1249.400	1017.700	1255.100	1018.400	1262.100	1017.900	1268.700
GR	1018.100	1399.900	1016.700	1599.900	1015.100	1799.900	1015.300	1836.900	1014.800	1841.800
GR	1015.500	1848.300	1014.800	1866.600	1016.100	1999.900	1016.800	2155.000	1016.900	2399.900
GR	1016.300	2491.800	1015.100	2534.600	1014.500	2599.900	1014.000	2650.000	1014.000	2700.000
GR	1017.200	2714.700	1019.000	2875.000	1020.100	2999.900	1019.600	3199.900	1018.600	3374.300
NH	4.000	0.040	2252.700	0.030	2641.800	0.045	2799.900	0.045	3179.700	0.000
X1	0.750	25.000	1799.800	2159.000	500.000	510.000	500.000	0.000	0.000	0.000
GR	1022.600	1000.000	1020.300	1119.700	1019.600	1186.300	1019.900	1199.900	1019.300	1203.600
GR	1020.200	1209.300	1019.600	1214.000	1019.000	1399.900	1017.300	1599.900	1016.100	1799.800
GR	1016.100	1799.900	1016.600	1806.200	1016.800	1827.300	1017.400	1999.900	1018.100	2159.000
GR	1018.200	2242.100	1018.300	2252.700	1016.600	2282.100	1014.100	2360.000	1014.000	2500.000
GR	1018.200	2599.900	1018.800	2625.500	1020.800	2641.800	1021.200	2799.900	1021.600	2999.900
GR	1021.100	3179.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

NH	4.000	0.040	2480.000	0.045	2799.900	0.040	2999.900	0.040	3036.000	0.000
X1	0.850	33.000	1799.900	2073.400	500.000	500.000	500.000	0.000	0.000	0.000
GR	1020.500	1000.300	1020.200	1075.900	1021.300	1087.700	1021.400	1105.400	1020.900	1112.100
GR	1021.000	1199.900	1021.000	1300.000	1019.700	1599.900	1017.500	1799.900	1017.000	1911.600
GR	1017.400	1999.900	1018.600	2050.700	1020.300	2056.300	1017.900	2067.100	1019.800	2073.400
GR	1014.800	2154.300	1015.900	2187.400	1015.100	2199.900	1014.100	2213.700	1018.600	2350.700
GR	1017.300	2400.200	1018.200	2599.900	1017.500	2705.100	1021.100	2769.900	1021.000	2799.900
GR	1021.200	2870.500	1023.100	2904.000	1022.800	2941.400	1022.200	2999.900	1022.200	3009.300
GR	1020.900	3024.300	1023.000	3043.700	1022.400	3096.000	0.000	0.000	0.000	0.000
NH	4.000	0.044	1718.300	0.045	1725.500	0.040	3570.000	0.040	4249.900	0.000
X1	0.950	27.000	2625.000	2842.300	540.000	510.000	500.000	0.000	0.000	0.000
GR	1021.400	1718.300	1022.700	1725.500	1021.800	1737.000	1022.300	1799.800	1021.300	1930.000
GR	1021.000	2199.800	1020.600	2399.800	1019.000	2525.000	1016.400	2799.200	1016.500	2799.800
GR	1018.100	2824.900	1019.500	2834.400	1017.900	2842.300	1019.700	2852.000	1017.700	2999.800
GR	1017.700	3199.800	1018.500	3460.000	1019.500	3570.000	1023.200	3775.400	1024.500	3780.900
GR	1022.200	3788.500	1024.500	3795.100	1023.200	3799.800	1023.100	3803.000	1022.400	3999.800
GR	1021.900	4199.800	1021.600	4249.900	0.000	0.000	0.000	0.000	0.000	0.000
NH	4.000	0.044	1632.800	0.045	1782.300	0.040	2770.500	0.040	4318.500	0.000
X1	1.040	28.000	2582.300	2982.300	390.000	420.000	500.000	0.000	0.000	0.000
GR	1023.700	1624.300	1023.300	1632.800	1023.100	1782.300	1022.300	1982.300	1021.300	2182.300
GR	1020.900	2382.300	1019.300	2582.300	1018.800	2597.700	1020.300	2621.500	1019.400	2629.200
GR	1020.200	2639.200	1019.300	2733.900	1020.900	2770.500	1020.600	2782.300	1020.400	2788.500
GR	1019.000	2982.300	1018.500	3182.300	1019.500	3382.300	1021.400	3420.300	1021.500	3600.000
GR	1025.500	3775.700	1023.400	3782.300	1022.700	3784.000	1024.600	3791.500	1023.600	3798.000

GR	1023.100	3982.300	1022.400	4182.300	1022.100	4318.500	0.000	0.000	0.000	0.000
NH	4.000	0.045	1335.100	0.040	2724.600	0.045	2926.900	0.040	3860.700	0.000
X1	1.100	33.000	2372.000	2914.700	200.000	380.000	300.000	0.000	0.000	0.000
GR	1021.500	1327.600	1023.700	1335.100	1022.300	1339.000	1022.700	1361.100	1022.700	1361.200
GR	1022.600	1561.000	1021.900	1761.000	1021.300	1961.000	1021.000	2161.000	1019.400	2372.000
GR	1019.400	2393.500	1019.900	2397.500	1018.500	2401.700	1021.200	2407.400	1018.500	2426.900
GR	1018.800	2561.000	1019.000	2707.300	1018.100	2724.600	1020.400	2749.500	1020.300	2761.000
GR	1019.800	2914.700	1018.600	2926.900	1018.900	2961.000	1019.400	3161.000	1021.600	3361.000
GR	1025.000	3533.300	1026.600	3539.900	1023.300	3548.900	1025.600	3556.600	1024.700	3560.700
GR	1024.700	3561.000	1023.900	3761.000	1023.700	3860.700	0.000	0.000	0.000	0.000
NH	4.000	0.044	1355.200	0.045	1555.100	0.040	3340.400	0.040	3634.600	0.000
X1	1.230	28.000	2636.200	3340.400	650.000	555.000	700.000	0.000	0.000	0.000
GR	1022.700	1316.300	1022.800	1355.200	1022.900	1355.300	1022.900	1555.100	1022.300	1755.100
GR	1022.300	1955.100	1021.400	2155.100	1020.600	2266.600	1022.300	2275.800	1020.100	2285.600
GR	1020.000	2355.100	1020.600	2555.100	1021.000	2636.200	1021.300	2755.100	1020.600	2955.100
GR	1019.900	3155.100	1019.200	3315.900	1019.800	3340.400	1019.800	3355.100	1019.800	3389.100
GR	1020.300	3427.000	1025.000	3520.600	1026.500	3555.100	1025.600	3611.300	1023.200	3617.800
GR	1025.200	3623.700	1024.600	3630.100	1024.500	3634.600	0.000	0.000	0.000	0.000
NC	0.040	0.040	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	1.330	25.000	2897.300	3653.700	420.000	540.000	500.000	0.000	0.000	0.000
GR	1023.400	1354.200	1023.400	1361.900	1024.300	1368.900	1023.500	1373.100	1023.400	1399.900
GR	1023.300	1497.900	1023.300	1493.300	1023.500	1597.800	1022.800	1897.300	1021.600	2097.300
GR	1021.200	2198.100	1021.700	2207.800	1020.400	2219.400	1020.500	2297.800	1021.600	2497.800
GR	1022.500	2697.300	1022.300	2897.300	1021.900	3097.300	1020.400	3297.300	1019.800	3497.800
GR	1023.100	3653.700	1022.200	3697.800	1022.300	3711.100	1026.000	3786.800	1026.800	3836.700

NH	4.000	0.044	1361.100	0.045	1370.800	0.040	3680.000	0.040	3858.400	0.000
X1	1.420	27.000	2999.900	3602.700	440.000	550.000	500.000	0.000	0.000	0.000
GR	1024.800	1346.900	1023.200	1361.100	1025.300	1370.800	1025.000	1399.900	1024.900	1599.900
GR	1024.900	1799.900	1023.400	1999.900	1022.700	2199.900	1023.400	2347.600	1023.400	2361.700
GR	1022.500	2399.900	1023.500	2599.900	1023.400	2700.800	1025.100	2731.300	1021.500	2740.700
GR	1025.300	2752.000	1023.300	2759.400	1023.800	2799.900	1023.200	2999.900	1022.100	3199.900
GR	1021.300	3399.900	1021.300	3599.900	1021.300	3602.700	1024.100	3680.000	1027.100	3799.900
GR	1028.500	3822.700	1028.100	3858.400	0.000	0.000	0.000	0.000	0.000	0.000
NH	5.000	0.045	1402.600	0.040	2193.500	0.045	2399.900	0.030	2739.500	0.040
NH	4021.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	1.520	30.000	3199.900	3315.000	500.000	490.000	500.000	0.000	0.000	0.000
GR	1026.000	1388.000	1026.000	1389.000	1026.800	1389.700	1023.900	1394.900	1025.800	1399.900
GR	1026.100	1402.600	1025.500	1599.900	1025.300	1799.900	1024.500	1999.900	1023.500	2158.200
GR	1025.800	2193.500	1025.900	2199.900	1026.400	2283.500	1025.500	2377.500	1025.100	2399.900
GR	1024.400	2599.900	1024.300	2667.900	1024.100	2705.500	1024.600	2718.700	1023.000	2729.500
GR	1024.500	2739.500	1025.000	2910.000	1024.300	2999.900	1023.800	3199.900	1023.500	3315.000
GR	1022.800	3599.900	1022.000	3760.200	1025.000	3830.000	1028.600	3999.900	1028.600	4021.900
NH	4.000	0.045	1217.600	0.040	1905.600	0.045	2468.000	0.040	3820.000	0.000
X1	1.610	35.000	2999.900	3640.000	400.000	500.000	500.000	0.000	0.000	0.000
GR	1027.300	1206.100	1025.100	1217.500	1026.500	1223.500	1026.200	1231.200	1025.800	1399.900
GR	1025.300	1599.900	1025.000	1799.900	1024.700	1905.600	1026.500	1919.500	1026.800	1962.100
GR	1026.600	1999.900	1025.500	2199.900	1025.200	2299.600	1026.100	2308.000	1026.100	2331.600
GR	1025.100	2341.400	1025.700	2399.900	1025.900	2443.400	1025.000	2468.000	1025.300	2599.900

GR	1025.200	2799.900	1024.800	2999.900	1024.800	3199.900	1023.600	3399.900	1023.500	3493.000
GR	1023.400	3599.900	1023.500	3607.600	1025.000	3640.000	1027.900	3708.600	1029.400	3737.000
GR	1029.100	3799.900	1028.900	3806.400	1026.400	3812.300	1028.000	3818.400	1027.900	3820.000
NH	4.000	0.034	2199.900	0.044	2360.900	0.045	3399.900	0.035	4870.000	0.000
X1	1.710	21.000	3799.900	4399.800	370.000	680.000	500.000	0.000	0.000	0.000
GR	1027.400	2199.000	1027.400	2199.900	1026.500	2360.900	1027.400	2399.900	1027.600	2513.600
GR	1028.200	2599.900	1028.300	2626.800	1025.800	2631.900	1025.800	2650.500	1028.700	2658.400
GR	1027.300	2799.900	1026.300	2999.900	1026.600	3199.900	1026.500	3399.900	1026.700	3599.900
GR	1026.400	3799.900	1026.200	3999.800	1025.100	4199.800	1025.400	4399.800	1025.500	4680.000
GR	1028.700	4870.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NH	7.000	0.110	1799.900	0.100	2799.900	0.500	2990.600	0.035	3710.000	0.500
NH	4199.800	0.020	5599.800	0.030	6079.000	0.000	0.000	0.000	0.000	0.000
X1	1.800	49.000	3026.100	3636.400	500.000	500.000	500.000	0.000	0.000	0.000
GR	1029.000	1650.000	1027.300	1799.900	1026.200	1979.000	1025.200	1989.500	1025.400	1999.900
GR	1026.800	2199.900	1027.300	2399.900	1027.300	2432.100	1027.800	2448.500	1028.300	2599.900
GR	1029.100	2799.900	1029.100	2990.600	1028.300	2999.900	1026.800	3026.100	1026.300	3129.100
GR	1026.100	3137.700	1025.800	3199.800	1026.800	3199.900	1025.500	3209.600	1025.700	3218.700
GR	1025.700	3235.100	1025.700	3255.200	1026.500	3273.300	1027.700	3399.900	1026.900	3565.800
GR	1027.000	3599.900	1027.500	3623.800	1027.700	3635.400	1027.900	3710.000	1029.600	3800.000
GR	1029.600	4152.700	1029.500	4199.300	1031.200	4254.000	1031.000	4313.300	1030.100	4324.300
GR	1031.300	4334.200	1031.100	4399.300	1031.800	4599.300	1031.500	4799.800	1032.700	4999.800
GR	1031.800	5199.800	1032.500	5399.800	1033.400	5599.800	1033.200	5618.300	1035.100	5651.700
GR	1035.200	5799.800	1034.900	5972.500	1032.400	5999.800	1032.700	6079.000	0.000	0.000
NH	6.000	0.040	1699.300	0.500	2399.900	0.040	4399.800	0.060	5199.800	0.020
NH	5599.800	0.030	6207.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	1.900	45.000	3109.600	3599.900	510.000	480.000	500.000	0.000	0.000	0.000
GR	1030.000	1630.000	1030.000	1631.700	1030.300	1699.800	1026.600	1711.400	1026.700	1717.100
GR	1028.300	1723.800	1028.300	1799.900	1027.600	1999.900	1027.600	2199.900	1028.300	2399.900
GR	1029.200	2990.000	1029.100	2799.900	1027.700	2999.900	1027.100	3109.600	1026.000	3132.600
GR	1026.000	3190.000	1026.200	3199.900	1028.400	3211.400	1026.900	3342.800	1026.800	3366.500
GR	1026.600	3399.900	1026.900	3599.900	1027.700	3711.400	1027.700	3725.500	1028.400	3752.900
GR	1028.900	3799.800	1026.500	3850.000	1031.400	4199.800	1030.300	4310.500	1031.800	4346.600
GR	1031.300	4393.600	1031.000	4399.800	1031.000	4405.400	1032.100	4421.900	1031.300	4599.800
GR	1032.300	4799.800	1032.200	4999.800	1033.500	5199.800	1032.400	5399.800	1032.700	5599.800
GR	1035.200	5799.800	1035.200	5999.800	1034.700	6063.000	1033.600	6199.800	1033.600	6207.200
NH	5.000	0.040	2295.800	0.035	3950.600	0.060	4799.800	0.020	5199.800	0.030
NH	5894.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	1.980	36.000	2599.900	2999.900	410.000	410.000	410.000	0.000	0.000	0.000
GR	1030.000	2199.900	1030.000	2246.400	1031.000	2260.000	1029.100	2287.800	1030.600	2295.800
GR	1029.400	2399.900	1028.700	2599.900	1028.600	2799.900	1028.600	2999.900	1027.500	3199.900
GR	1028.000	3399.900	1028.600	3515.000	1029.400	3799.800	1032.200	3950.500	1031.300	3960.400
GR	1032.200	3973.500	1031.900	3999.800	1031.800	4199.800	1032.300	4399.800	1031.800	4599.800
GR	1032.200	4799.800	1032.900	4999.800	1033.000	5199.800	1035.000	5323.600	1035.000	5399.800
GR	1035.100	5599.800	1034.600	5645.000	1030.300	5654.300	1030.400	5708.600	1033.300	5799.800
GR	1035.100	5847.900	1033.700	5857.600	1036.700	5869.700	1033.900	5877.000	1034.000	5889.100
GR	1035.800	5894.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

NH	5.000	0.035	2580.000	0.035	3940.000	0.060	4420.000	0.040	4599.800	0.030
NH	5720.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	2.060	17.000	2350.000	2750.000	460.000	460.000	460.000	0.000	0.000	0.000
GR	1031.000	2030.000	1030.500	2350.000	1029.000	2580.000	1030.500	2750.000	1028.400	2980.000
GR	1028.500	3100.000	1028.500	3220.000	1029.000	3450.000	1030.000	3680.000	1031.500	3750.000
GR	1031.000	3940.000	1030.000	4350.000	1030.000	4420.000	1030.600	4599.800	1033.000	4760.000
GR	1034.500	5370.000	1034.000	5720.000	0.000	0.000	0.000	0.000	0.000	0.000
NH	5.000	0.041	1799.900	0.040	1999.900	0.030	3999.900	0.060	4519.200	0.040
NH	5317.700	0.030	5951.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	2.140	50.000	2399.900	2799.900	400.000	400.000	400.000	0.000	0.000	0.000
GR	1031.200	1599.900	1031.400	1799.900	1031.800	1999.900	1031.100	2199.900	1030.600	2399.900
GR	1030.400	2700.000	1030.700	2799.900	1030.900	2923.800	1029.400	2935.000	1031.600	2999.900
GR	1032.600	3199.900	1034.700	3388.900	1034.700	3393.700	1032.400	3593.600	1032.500	3717.300
GR	1031.300	3757.000	1032.200	3775.100	1032.600	3793.600	1032.400	3820.800	1031.300	3869.100
GR	1031.300	3950.000	1030.900	3999.900	1030.900	4366.700	1031.400	4383.900	1030.000	4393.400
GR	1030.000	4393.600	1030.700	4403.800	1030.700	4413.200	1030.100	4422.900	1030.100	4519.200
GR	1029.600	4543.000	1029.800	4593.600	1029.800	4793.600	1030.600	4993.600	1030.700	5193.600
GR	1031.000	5235.600	1031.800	5251.200	1031.900	5257.200	1036.100	5267.400	1036.200	5317.700
GR	1031.400	5351.000	1031.600	5393.600	1031.900	5593.600	1032.200	5665.600	1035.500	5693.000
GR	1035.100	5793.600	1035.100	5903.300	1034.200	5912.400	1034.400	5951.000	1034.400	5951.100
NH	4.000	0.100	2099.500	0.030	4465.300	0.040	5381.300	0.040	5837.000	0.000
X1	2.190	43.000	2399.900	2799.900	280.000	280.000	280.000	0.000	0.000	0.000
GR	1032.700	1599.900	1032.500	1799.900	1033.000	1999.900	1031.000	2091.000	1032.200	2099.500
GR	1031.300	2115.900	1031.400	2199.900	1031.100	2399.900	1030.900	2599.900	1031.000	2799.900
GR	1030.600	2911.000	1032.100	2921.000	1030.600	2932.300	1031.600	2999.900	1032.100	3091.500
GR	1033.100	3291.400	1033.600	3491.400	1034.100	3561.400	1032.900	3710.100	1033.300	3730.100
GR	1033.300	3755.600	1032.400	3781.300	1031.700	3838.400	1031.600	3959.000	1031.300	4181.300
GR	1030.300	4381.300	1030.700	4434.700	1031.000	4456.200	1029.800	4465.300	1030.800	4472.900
GR	1030.200	4488.200	1030.400	4581.300	1030.400	4781.300	1030.200	4981.300	1031.200	5181.300

GR	1031.400	5183.300	1036.500	5212.200	1036.500	5220.400	1035.100	5233.700	1035.100	5381.300
GR	1035.200	5381.300	1036.900	5781.300	1037.000	5837.000	0.000	0.000	0.000	0.000
NH	5.000	0.090	1929.900	0.100	3048.800	0.130	3601.400	0.030	4352.500	0.040
WH	6243.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	2.230	52.000	2199.900	2599.900	210.000	210.000	210.000	0.000	0.000	0.000
GR	1033.400	1907.500	1033.300	1929.900	1032.500	1947.700	1032.600	1999.900	1032.000	2199.900
GR	1031.700	2399.900	1032.100	2599.900	1032.100	2799.900	1032.500	2900.000	1032.900	3048.800
GR	1034.100	3058.700	1035.000	3258.600	1034.500	3458.600	1033.000	3601.400	1033.800	3610.900
GR	1033.900	3658.500	1033.900	3664.500	1032.700	3690.500	1032.500	3795.600	1032.300	3968.900
GR	1032.900	3995.500	1033.300	4022.000	1035.700	4038.000	1033.900	4046.700	1033.900	4053.700
GR	1035.500	4062.500	1034.200	4072.000	1033.300	4135.200	1033.700	4147.800	1032.300	4195.500
GR	1031.400	4311.200	1032.100	4327.500	1031.900	4337.900	1031.100	4345.000	1031.700	4352.500
GR	1031.400	4395.500	1031.300	4595.500	1031.300	4795.500	1032.000	4995.500	1032.100	5059.500
GR	1033.300	5067.000	1033.000	5071.500	1035.500	5083.500	1035.600	5094.800	1034.500	5108.000
GR	1034.600	5195.500	1035.000	5395.500	1036.000	5595.500	1036.900	5795.500	1036.900	5995.500
GR	1037.900	6195.500	1038.100	6243.100	0.000	0.000	0.000	0.000	0.000	0.000

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NH	4.000	0.031	1754.000	0.030	4896.500	0.040	4942.600	0.040	6309.700	0.000
X1	2.300	49.000	2303.000	2799.900	370.000	450.000	350.000	0.000	0.000	0.000
GR	1033.800	1745.300	1033.400	1754.000	1033.300	1799.900	1032.700	1999.900	1032.400	2152.400
GR	1033.300	2161.300	1032.400	2171.200	1032.700	2199.900	1033.300	2265.900	1030.800	2282.700
GR	1030.800	2291.200	1032.800	2303.000	1032.900	2399.900	1033.400	2558.200	1033.500	2599.900
GR	1032.800	2799.900	1033.500	2999.900	1034.200	3199.900	1034.700	3317.100	1034.700	3473.900
GR	1034.800	3503.600	1034.000	3517.000	1033.700	3532.000	1033.200	3717.000	1032.900	3917.000
GR	1032.200	4085.400	1032.400	4285.300	1032.100	4485.300	1032.100	4685.300	1032.200	4765.300
GR	1034.000	4798.700	1033.600	4839.700	1032.500	4851.800	1034.600	4874.000	1035.100	4885.300
GR	1035.100	4889.800	1034.100	4895.500	1035.300	4910.600	1035.300	4942.600	1034.100	4957.100
GR	1034.500	5085.300	1035.000	5285.300	1035.800	5485.300	1035.900	5685.300	1036.900	5885.300
GR	1037.100	6085.300	1038.400	6285.300	1038.400	6309.600	1038.400	6309.700	0.000	0.000
NH	5.000	0.100	1651.400	0.030	2799.900	0.060	4742.400	0.060	5251.900	0.045
WH	6066.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	2.350	63.000	2399.900	2799.900	270.000	210.000	290.000	0.000	0.000	0.000
GR	1035.000	1639.000	1035.200	1640.100	1033.400	1651.400	1034.300	1656.800	1033.500	1658.600
GR	1033.500	1799.900	1033.000	1999.900	1033.000	2050.100	1033.700	2059.500	1032.700	2067.100
GR	1033.500	2170.000	1032.200	2176.900	1032.300	2184.000	1033.800	2188.300	1033.600	2199.900
GR	1033.500	2399.900	1033.600	2599.900	1033.900	2799.900	1033.700	2958.700	1034.500	2999.900
GR	1034.500	3010.000	1037.300	3029.700	1036.200	3087.300	1035.900	3199.900	1034.500	3363.600
GR	1035.400	3384.700	1035.400	3399.900	1035.400	3406.300	1034.500	3418.900	1033.400	3618.100
GR	1033.400	3618.800	1035.800	3648.500	1035.500	3694.500	1033.300	3732.500	1033.200	3818.800
GR	1032.800	4018.800	1032.700	4096.800	1032.600	4210.000	1032.900	4379.000	1033.100	4696.700
GR	1033.200	4718.900	1027.100	4727.600	1027.100	4737.700	1032.900	4742.400	1033.400	4821.000
GR	1034.400	4833.600	1035.000	4896.700	1034.600	5096.700	1034.500	5107.800	1033.700	5123.100
GR	1034.700	5184.200	1032.300	5205.800	1032.200	5240.300	1034.100	5251.900	1034.300	5296.700
GR	1035.100	5496.700	1035.600	5696.700	1036.400	5896.700	1037.100	5935.700	1034.800	5951.100
GR	1038.500	5970.900	1038.600	6041.100	1038.300	6066.800	0.000	0.000	0.000	0.000
NH	6.000	0.100	1503.300	0.030	1906.000	0.060	4661.800	0.030	5061.800	0.045
WH	5874.300	0.100	6349.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	2.410	50.000	2399.900	2702.100	310.000	280.000	280.000	0.000	0.000	0.000
GR	1035.700	1296.900	1035.500	1296.400	1035.500	1399.900	1035.500	1503.300	1033.800	1514.100
GR	1034.900	1525.300	1033.800	1538.700	1034.100	1599.900	1033.700	1799.900	1033.500	1906.000
GR	1034.700	1999.900	1035.700	2199.900	1035.500	2399.900	1035.200	2599.900	1035.200	2686.200

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GR   1034.200   2702.100   1034.200   2799.900   1034.900   2899.900   1035.400   3199.900   1035.700   3254.600
GR   1034.900   3272.500   1035.200   3399.900   1035.200   3462.000   1034.500   3661.900   1033.500   3861.900
GR   1033.500   4061.300   1033.300   4130.000   1030.900   4195.900   1030.300   4222.400   1033.300   4224.900
GR   1033.300   4261.800   1034.100   4461.800   1035.100   4661.800   1034.400   4861.800   1035.900   5061.800
GR   1036.500   5261.800   1037.600   5461.800   1038.000   5653.300   1038.800   5661.800   1039.100   5681.700
GR   1035.500   5692.800   1035.500   5705.000   1040.200   5717.500   1039.500   5729.800   1039.600   5811.100
GR   1039.600   5861.800   1039.400   5874.500   1040.300   6061.800   1041.300   6261.800   1041.600   6349.000

NH      3.000      0.060   4360.300      0.030   4760.300      0.045   5942.200      0.000      0.000      0.000
        ELEVATION AT BEGINING OF CROSS SECTION IS SET ARTIFICIALLY HIGH SO THAT
        THE 100-YEAR DISCHARGE IS CONTAINED WITHIN  CAVE CREEK.
X1      2.510     39.000   2399.900   2799.900    560.000    580.000    550.000      0.000      0.000      0.000
GR   1037.000   1899.600   1037.000   1899.700   1037.000   1899.800   1037.000   1899.900   1037.000   1900.000
GR   1036.400   2199.900   1036.400   2399.900   1036.400   2599.900   1036.500   2799.900   1035.700   2960.400
GR   1037.400   3051.300   1035.600   3070.000   1037.300   3160.300   1036.300   3360.300   1035.800   3560.300
GR   1035.300   3760.300   1035.000   3945.000   1035.100   4160.300   1035.500   4360.300   1035.900   4560.300
GR   1036.000   4644.400   1037.200   4658.300   1036.000   4673.600   1036.300   4760.300   1037.200   4960.300
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GR   1038.400   5160.300   1040.000   5400.000   1040.500   5482.500   1038.700   5514.400   1040.900   5548.200
GR   1040.000   5560.200   1039.900   5572.000   1040.000   5593.600   1040.900   5627.200   1039.900   5710.800
GR   1040.800   5722.300   1040.500   5760.200   1040.500   5760.900   1040.700   5942.200      0.000      0.000

NC      0.500      0.100      0.035      0.000      0.000      0.000      0.000      0.000      0.000      0.000
        ELEVATION AT BEGINING OF CROSS SECTION IS SET ARTIFICIALLY HIGH SO THAT
        THE 100-YEAR DISCHARGE IS CONTAINED WITHIN CAVE CREEK.
X1      2.600     41.000   2604.900   2999.900    450.000    500.000    500.000      0.000      0.000      0.000
GR   1039.000   1999.600   1039.000   1999.700   1039.000   1999.800   1039.000   1999.800   1039.000   1999.900
GR   1035.600   2199.900   1035.100   2399.900   1035.000   2575.500   1036.600   2599.900   1037.000   2604.900
GR   1037.000   2685.200   1036.900   2751.600   1036.700   2795.100   1036.700   2799.900   1036.700   2817.900
GR   1036.700   2833.100   1036.200   2999.900   1036.600   3199.900   1036.800   3399.900   1036.700   3509.700
GR   1036.200   3524.100   1035.800   3599.800   1036.000   3795.000   1038.000   3840.000   1040.000   4050.000
GR   1040.200   4100.000   1040.000   4175.000   1038.000   4400.000   1037.900   4570.000   1037.400   4600.000
GR   1037.400   4850.000   1040.000   5060.000   1038.100   5100.000   1038.000   5140.000   1037.300   5200.000
GR   1040.000   5470.000   1041.000   5490.000   1040.000   5500.000   1039.900   5530.000   1040.000   5550.000
GR   1040.000   5770.000      0.000      0.000      0.000      0.000      0.000      0.000      0.000      0.000

NC      0.140      0.140      0.035      0.000      0.000      0.000      0.000      0.000      0.000      0.000
        ELEVATION AT BEGINING OF CROSS SECTION IS SET ARTIFICIALLY HIGH SO THAT
        THE 100-YEAR DISCHARGE IS CONTAINED WITHIN CAVE CREEK.
X1      2.730     28.000   2820.000   3300.000    620.000    640.000    650.000      0.000      0.000      0.000
GR   1039.500   2479.000   1039.500   2480.000   1038.500   2520.000   1038.100   2600.000   1038.500   2650.000
GR   1038.000   2670.000   1037.500   2750.000   1038.000   2820.000   1038.000   3300.000   1038.000   3400.000
GR   1038.500   3460.000   1038.000   3540.000   1037.000   3580.000   1037.500   3790.000   1038.500   4435.000
GR   1038.000   4480.000   1037.900   4520.000   1038.000   4600.000   1039.000   5100.000   1040.000   5270.000
GR   1040.000   5260.000   1040.000   5290.000   1040.000   5330.000   1039.900   5340.000   1040.000   5350.000
GR   1040.500   5380.000   1040.000   5420.000   1042.000   6000.000      0.000      0.000      0.000      0.000

NC      0.500      0.140      0.100      0.000      0.000      0.000      0.000      0.000      0.000      0.000
        ELEVATION AT BEGINING OF CROSS SECTION IS SET ARTIFICIALLY HIGH SO THAT
        THE 100-YEAR DISCHARGE IS CONTAINED WITHIN CAVE CREEK.
X1      3.320     33.000   3160.900   3544.800    500.000    490.000    490.000      0.000      0.000      0.000
GR   1041.000   2564.800   1041.000   2564.900   1041.000   2565.000   1038.400   2599.900   1038.800   2799.900
GR   1039.100   2999.900   1039.300   3160.900   1039.100   3399.900   1038.700   3544.800   1037.900   3800.000
GR   1038.200   3944.700   1038.900   4025.800   1041.300   4087.500   1041.300   4144.700   1039.500   4344.700
GR   1039.100   4544.700   1039.800   4744.700   1040.300   4944.700   1039.700   5064.400   1040.600   5144.700
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GR   1041.500   5165.900   1041.300   5177.400   1040.900   5190.700   1040.900   5202.800   1040.800   5214.800
GR   1039.500   5298.300   1041.000   5313.300   1041.300   5344.700   1041.000   5544.700   1041.200   5744.700
GR   1042.500   5944.700   1043.300   5944.700   1044.300   6250.500      0.000      0.000      0.000      0.000

CT      2.000   2226.000   2226.000      0.000      0.000      0.000      0.000      0.000      0.000      0.000
NC      0.500      0.140      0.045      0.000      0.000      0.000      0.000      0.000      0.000      0.000
        ELEVATION AT BEGINING OF CROSS SECTION IS SET ARTIFICIALLY HIGH SO THAT
        THE 100-YEAR DISCHARGE IS CONTAINED WITHIN CAVE CREEK
X1      2.860     20.000   3399.900   3786.100    300.000    300.000    230.000      0.000      0.000      0.000
GR   1042.000   2524.900   1042.300   2525.900   1039.400   2599.900   1039.800   2799.900   1040.400   2999.900
GR   1040.400   3199.900   1039.900   3399.900   1039.800   3586.200   1040.200   3786.100   1041.000   3986.100
GR   1041.300   4186.100   1040.800   4386.100   1040.500   4586.100   1040.500   4786.100   1041.000   4986.100
GR   1041.400   5186.100   1041.500   5386.100   1041.600   5586.100   1042.700   5786.100   1043.400   5940.600
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NH      6.000      0.100   2682.400      0.040   3805.900      0.500   4000.000      0.030   4166.200      0.130
NH   4949.300      0.100   5909.100      0.000      0.000      0.000      0.000      0.000      0.000      0.000
        ELEVATION AT BEGINING OF CROSS SECTION IS SET ARTIFICIALLY HIGH SO THAT
        THE 100-YEAR DISCHARGE IS CONTAINED WITHIN CAVE CREEK.
X1      2.940     40.000   3399.900   3781.000    400.000    410.000    400.000      0.000      0.000      0.000
GR   1044.000   2498.600   1044.000   2498.700   1044.000   2498.800   1044.000   2498.900   1040.000   2500.000
GR   1040.600   2599.900   1040.900   2666.800   1039.700   2682.400   1039.800   2799.900   1040.200   2999.900
GR   1040.400   3199.900   1040.400   3399.900   1041.500   3599.900   1042.100   3702.000   1038.100   3709.900
GR   1038.100   3726.300   1042.700   3735.200   1041.100   3749.400   1040.500   3781.000   1043.300   3805.900
GR   1044.000   4000.000   1043.100   4104.200   1040.500   4141.200   1040.800   4149.300   1041.200   4166.200
GR   1040.100   4349.300   1040.200   4549.300   1040.600   4749.300   1040.900   4949.300   1041.000   5149.300
GR   1040.800   5349.300   1040.500   5357.100   1041.500   5385.800   1040.800   5394.900   1041.900   5412.100
GR   1040.700   5429.900   1040.900   5549.300   1041.500   5749.300   1042.000   5909.100   1044.000   5969.000

NH      9.000      0.040   2157.300      0.030   2798.400      0.130   3798.300      0.500   4026.700      0.030
NH   4198.300      0.500   4398.300      0.030   4598.300      0.500   5398.300      0.030   5498.500      0.000
X1      3.040     49.000   1999.000   2300.000    470.000    480.000    500.000      0.000      0.000      0.000
GR   1050.100   1000.000   1050.100   1007.300   1039.800   1038.000   1041.100   1199.900   1041.100   1232.300
GR   1041.900   1252.500   1040.500   1266.700   1040.800   1399.900   1040.800   1599.900   1040.800   1799.900
GR   1041.400   1930.000   1041.200   2104.400   1042.500   2117.300   1042.500   2125.700   1038.300   2141.300
GR   1038.300   2157.300   1042.200   2168.000   1041.500   2195.100   1041.100   2199.900   1040.900   2204.500
GR   1041.500   2217.500   1040.800   2243.500   1040.400   2300.000   1040.200   2599.900   1040.200   2753.500
GR   1041.100   2794.200   1041.100   2798.400   1040.400   2998.300   1040.800   3198.300   1041.900   3398.300
GR   1041.300   3598.300   1040.900   3656.000   1041.700   3688.800   1041.500   3744.700   1040.000   3785.500
GR   1040.300   3798.300   1043.300   3900.000   1041.700   4026.700   1041.100   4034.400   1042.400   4042.500
GR   1041.900   4052.600   1042.600   4198.300   1043.600   4398.300   1042.500   4598.300   1042.200   4798.300
GR   1043.100   4998.300   1046.600   5198.300   1047.600   5398.300   1048.700   5498.500      0.000      0.000

NH      5.000      0.040   2257.300      0.210   2804.000      0.130   3761.800      0.030   4603.900      0.500
NH   5311.500      0.000      0.000      0.000      0.000      0.000      0.000      0.000      0.000      0.000
X1      3.130     43.000   1999.900   2234.200    500.000    500.000    500.000      0.000      0.000      0.000
GR   1051.500   1000.000   1050.100   1015.900   1040.800   1040.300   1041.900   1056.300   1042.700   1085.600
GR   1040.300   1128.600   1042.700   1139.300   1041.300   1159.200   1042.000   1199.900   1041.300   1399.900
GR   1041.400   1599.300   1041.500   1799.900   1041.300   1999.500   1041.900   2093.400   1042.400   2130.200
GR   1038.500   2139.400   1038.800   2154.900   1042.800   2164.000   1040.600   2199.900   1040.400   2209.400
GR   1041.000   2234.200   1045.500   2257.300   1043.000   2275.400   1043.200   2399.900   1043.200   2599.900
GR   1042.200   2799.900   1042.200   2801.700   1041.500   2804.000   1041.800   3003.900   1041.500   3203.900
GR   1041.900   3350.000   1041.300   3603.900   1042.400   3707.500   1042.600   3761.800   1042.300   3803.900
GR   1042.600   4003.900   1044.000   4203.900   1044.700   4403.900   1045.200   4603.900   1045.500   4803.900
GR   1046.300   5003.900   1047.800   5203.900   1048.600   5311.500      0.000      0.000      0.000      0.000
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VH	5.000	0.040	2361.900	0.210	2807.400	0.025	3307.300	0.100	4407.300	0.130
NH	4934.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	3.230	52.000	1999.900	2235.300	500.000	510.000	500.000	0.000	0.000	0.000
GR	1054.800	1000.000	1049.500	1023.300	1049.500	1029.600	1042.000	1055.500	1043.000	1061.500
GR	1043.300	1089.900	1043.100	1142.500	1042.200	1153.500	1042.200	1199.900	1042.400	1399.900
GR	1042.300	1599.900	1042.300	1799.900	1042.200	1999.900	1042.000	2090.900	1043.100	2108.200
GR	1042.800	2125.700	1040.400	2136.500	1040.400	2149.100	1042.700	2159.700	1042.600	2172.500
GR	1040.900	2192.800	1041.000	2199.900	1041.300	2235.000	1042.000	2361.900	1046.200	2381.200
GR	1046.200	2399.900	1046.200	2448.400	1043.800	2468.600	1043.700	2493.900	1044.800	2596.300
GR	1044.600	2599.900	1042.600	2799.900	1042.500	2807.400	1043.200	3007.300	1043.700	3280.000
GR	1043.500	3407.300	1043.800	3607.300	1044.200	3712.200	1044.700	3723.600	1044.700	3780.500
GR	1043.800	3807.300	1043.600	3811.600	1044.100	4007.300	1044.000	4207.300	1044.300	4371.500

GR	1043.900	4381.200	1043.900	4407.300	1043.900	4408.500	1044.400	4417.700	1044.500	4607.300
GR	1045.300	4807.300	1046.600	4934.100	0.000	0.000	0.000	0.000	0.000	0.000
NH	6.000	0.040	2235.000	0.030	2399.900	0.500	2799.900	0.045	3803.400	0.100
NH	4617.000	0.130	5187.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	3.320	52.000	1799.900	2235.000	500.000	490.000	500.000	0.000	0.000	0.000
GR	1058.900	1000.000	1051.000	1041.100	1051.000	1048.200	1043.800	1084.900	1043.500	1163.700
GR	1042.700	1170.700	1042.800	1199.900	1042.800	1399.900	1042.800	1599.900	1042.700	1799.900
GR	1042.600	1999.900	1042.400	2110.300	1043.700	2118.800	1043.000	2125.600	1043.000	2137.300
GR	1040.500	2146.700	1040.500	2159.400	1042.600	2165.600	1043.100	2235.000	1042.800	2303.100
GR	1048.700	2374.100	1048.700	2399.900	1048.800	2599.900	1048.100	2772.200	1044.500	2799.900
GR	1044.400	2804.000	1043.000	2852.200	1043.700	2962.600	1045.600	2999.900	1046.700	3152.800
GR	1043.400	3199.900	1043.100	3205.500	1043.100	3217.100	1045.800	3417.000	1045.100	3608.700
GR	1044.600	3617.000	1044.400	3632.500	1045.000	3710.300	1046.500	3749.100	1046.300	3803.400
GR	1045.500	3817.000	1044.700	3826.100	1045.100	4017.000	1044.400	4217.000	1044.800	4417.000
GR	1045.500	4517.000	1045.200	4817.000	1047.000	5017.000	1047.100	5034.900	1047.800	5053.700
GR	1047.300	5103.100	1048.400	5187.300	0.000	0.000	0.000	0.000	0.000	0.000
OT	2.000	2217.000	2217.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NH	5.000	0.040	2158.800	0.030	2632.200	0.500	2902.200	0.030	3854.900	0.130
NH	5480.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	3.390	40.000	1630.000	2299.900	430.000	310.000	330.000	0.000	0.000	0.000
GR	1059.800	1000.000	1050.900	1053.000	1050.900	1060.500	1044.000	1094.500	1044.400	1158.800
GR	1044.100	1168.200	1044.100	1181.300	1044.900	1199.900	1046.200	1208.000	1045.200	1399.900
GR	1044.500	1630.000	1045.600	1799.900	1044.500	1999.900	1043.100	2168.800	1043.100	2199.900
GR	1043.200	2299.900	1044.400	2584.800	1046.300	2599.900	1048.500	2632.200	1046.900	2799.900
GR	1043.100	2902.200	1044.700	2999.900	1047.800	3199.900	1047.800	3260.000	1046.100	3540.400
GR	1045.400	3740.400	1045.300	3765.700	1046.700	3795.700	1046.500	3854.900	1045.800	3884.600
GR	1045.900	3940.400	1045.400	4140.400	1045.100	4340.400	1045.600	4540.400	1046.000	4740.400
GR	1047.000	4940.400	1047.900	5116.000	1047.900	5140.400	1048.500	5340.400	1049.200	5480.200
NH	5.000	0.040	1723.000	0.035	2199.900	0.030	2599.900	0.300	3803.400	0.130
NH	5408.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	3.420	41.000	1723.000	2399.900	150.000	450.000	170.000	0.000	0.000	0.000
GR	1034.500	1000.000	1049.900	1083.300	1049.900	1094.300	1045.100	1186.100	1044.700	1198.000
GR	1044.400	1199.900	1044.600	1209.100	1044.400	1219.900	1043.600	1399.900	1043.500	1599.900
GR	1043.300	1647.500	1045.500	1653.300	1044.300	1672.500	1044.000	1723.000	1043.300	1764.300
GR	1043.300	1799.900	1043.300	1999.900	1043.400	2188.900	1043.200	2199.900	1043.900	2207.400
GR	1043.200	2232.000	1043.300	2250.500	1043.300	2399.900	1043.600	2599.900	1045.100	2799.900
GR	1044.200	2999.900	1043.700	3199.900	1043.300	3399.900	1044.600	3519.000	1045.600	3718.900
GR	1045.300	3732.700	1047.300	3803.400	1046.400	3918.900	1046.400	4118.900	1046.400	4318.900

GR	1045.700	4518.900	1046.800	4718.900	1048.300	4918.900	1048.700	5118.900	1049.400	5318.900
GR	1045.700	5409.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NH	4.000	0.040	2012.400	0.035	2253.300	0.032	3881.900	0.030	3908.900	0.000
X1	3.510	47.000	1999.900	2399.900	570.000	450.000	500.000	0.000	0.000	0.000
GR	1061.500	1000.000	1050.100	1053.400	1049.300	1066.200	1045.800	1166.100	1044.200	1176.900
GR	1044.200	1186.200	1045.800	1199.900	1045.800	1200.200	1045.000	1399.900	1045.000	1599.900
GR	1045.200	1799.900	1044.300	1987.200	1046.000	1993.900	1045.700	1999.900	1045.600	2012.400
GR	1043.900	2049.500	1040.600	2086.300	1040.600	2188.100	1040.600	2199.900	1041.200	2232.600
GR	1044.100	2253.900	1045.000	2282.700	1045.000	2398.200	1045.000	2399.900	1044.200	2599.900
GR	1044.200	2799.900	1044.300	2893.000	1043.500	2909.100	1043.500	2922.800	1043.500	2944.000
GR	1041.900	2972.200	1044.300	2999.900	1044.800	3013.500	1044.900	3037.500	1043.700	3062.900
GR	1043.800	3101.200	1044.800	3123.100	1045.000	3199.900	1044.800	3241.700	1044.100	3282.000

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GR	1044.600	3481.900	1044.700	3581.900	1045.600	3813.700	1043.800	3827.700	1047.400	3841.400
GR	1047.000	3881.900	1046.900	3908.900	0.000	0.000	0.000	0.000	0.000	0.000
NH	4.000	0.040	2154.900	0.035	2550.000	0.035	2699.900	0.030	3899.400	0.000
X1	3.610	43.000	2199.900	2799.900	360.000	380.000	500.000	0.000	0.000	0.000
GR	1060.000	1000.000	1050.400	1060.000	1050.000	1070.000	1046.300	1134.600	1046.800	1149.700
GR	1041.800	1156.000	1045.700	1169.900	1045.700	1191.500	1045.800	1199.900	1045.300	1399.900
GR	1045.300	1599.900	1045.600	1799.900	1045.500	1999.900	1045.200	2131.600	1046.600	2137.400
GR	1046.600	2154.900	1045.000	2177.300	1045.100	2199.900	1044.700	2399.900	1044.500	2441.100
GR	1043.300	2550.000	1043.300	2599.900	1043.400	2648.600	1044.600	2699.900	1044.800	2799.900
GR	1044.700	2951.800	1043.800	2970.900	1043.800	2984.000	1043.800	2999.900	1043.800	3002.400
GR	1041.400	3013.800	1044.700	3072.700	1045.000	3199.900	1044.500	3399.900	1044.500	3492.600
GR	1045.100	3692.500	1045.200	3757.700	1042.800	3802.900	1043.100	3857.000	1046.000	3877.700
GR	1044.300	3886.200	1045.800	3892.500	1046.600	3899.400	0.000	0.000	0.000	0.000
NH	4.000	0.040	2368.700	0.035	3925.900	0.080	3989.000	0.090	4189.000	0.000
X1	3.660	38.000	2960.800	3199.900	500.000	500.000	300.000	0.000	0.000	0.000
GR	1070.000	1000.000	1060.000	1080.200	1058.000	1086.300	1050.000	1125.500	1046.800	1168.900
GR	1046.200	1183.300	1046.200	1194.200	1046.400	1199.900	1045.200	1208.000	1045.500	1399.900
GR	1045.500	2199.900	1045.200	2343.800	1045.400	2350.200	1045.500	2368.700	1045.600	2376.600
GR	1045.500	2399.900	1044.500	2599.900	1044.500	2799.900	1044.400	2951.300	1045.200	2960.800
GR	1043.900	2965.800	1045.200	2973.600	1044.400	2999.900	1044.800	3023.500	1044.600	3057.500
GR	1044.800	3094.900	1044.800	3199.900	1044.600	3399.900	1044.700	3506.200	1044.400	3589.100
GR	1045.400	3698.800	1045.600	3777.400	1044.700	3789.000	1044.500	3823.300	1044.400	3881.500
GR	1046.500	3925.900	1046.500	3989.000	1047.400	4189.000	0.000	0.000	0.000	0.000
NH	5.000	0.041	2999.900	0.040	3399.900	0.041	4080.000	0.080	5370.000	0.130
NH	5802.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	3.730	31.000	2999.900	3399.900	370.000	290.000	350.000	0.000	0.000	0.000
GR	1070.000	1000.000	1048.000	1130.000	1047.500	1200.000	1046.000	1340.000	1046.100	1800.000
GR	1045.000	2230.000	1046.200	2370.000	1046.200	2410.000	1046.200	2620.000	1046.100	2800.000
GR	1046.000	2999.900	1045.400	3199.900	1045.400	3323.000	1045.200	3399.900	1045.000	3489.600
GR	1045.700	3495.700	1045.800	3516.100	1045.900	3538.400	1046.200	3599.900	1046.200	3799.900
GR	1046.200	3999.900	1046.300	4004.500	1046.200	4080.000	1046.300	4300.000	1046.900	4830.000
GR	1048.000	5110.000	1049.000	5240.000	1050.000	5370.000	1050.100	5467.400	1050.700	5667.400
GR	1051.200	5802.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NH	4.000	0.040	3399.900	0.035	4000.000	0.060	5261.400	0.130	5570.300	0.000
X1	3.830	43.000	3199.900	3861.400	325.000	580.000	500.000	0.000	0.000	0.000
GR	1060.000	1000.000	1058.000	1037.100	1048.000	1157.700	1046.300	1206.400	1046.000	1399.900
GR	1047.000	1599.900	1047.000	1799.900	1047.300	1999.900	1047.500	2052.300	1047.200	2058.100

GR	1047.400	2065.900	1047.000	2199.900	1047.000	2399.900	1047.200	2592.400	1047.000	2599.900
GR	1047.300	2605.100	1047.300	2617.100	1047.500	2799.900	1047.300	2999.900	1046.300	3199.900
GR	1046.500	3399.900	1046.700	3599.900	1046.700	3615.500	1047.000	3661.500	1046.900	3774.400
GR	1046.200	3793.900	1046.300	3861.400	1046.300	4000.000	1046.700	4261.400	1047.300	4461.400
GR	1047.400	4505.300	1047.100	4518.800	1046.700	4661.400	1046.700	4702.500	1047.200	4721.000
GR	1047.500	4861.400	1048.300	5061.400	1049.200	5202.500	1049.800	5211.800	1049.800	5243.800
GR	1050.200	5261.400	1050.600	5461.400	1051.200	5570.300	0.000	0.000	0.000	0.000

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NH	5.000	0.040	3348.700	0.030	3901.100	0.130	4696.900	0.100	5399.900	0.130
NH	5642.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	3.890	49.000	3811.800	4100.000	580.000	320.000	360.000	0.000	0.000	0.000
GR	1060.000	1000.000	1048.700	1049.400	1049.800	1094.400	1048.000	1199.900	1046.700	1229.200
GR	1046.400	1399.900	1046.700	1599.900	1047.100	1799.900	1047.300	1999.900	1047.900	2063.400
GR	1045.500	2070.200	1047.500	2076.700	1047.100	2199.900	1047.000	2399.900	1046.400	2509.700
GR	1047.400	2515.700	1045.700	2525.700	1047.100	2532.400	1046.700	2554.800	1048.100	2561.000
GR	1047.900	2574.300	1046.600	2599.000	1046.600	2599.900	1047.000	2799.900	1046.800	2999.900
GR	1046.500	3199.900	1046.500	3348.700	1045.600	3355.000	1046.400	3361.000	1046.400	3399.900
GR	1046.200	3599.900	1046.500	3799.900	1046.500	3811.800	1045.300	3817.500	1046.700	3823.500
GR	1046.000	3841.900	1046.000	3901.100	1046.600	4100.000	1046.600	4199.900	1047.000	4399.900
GR	1047.000	4599.900	1047.000	4671.800	1046.500	4696.900	1046.800	4799.900	1047.900	4999.900
GR	1049.200	5199.900	1050.900	5399.900	1052.300	5599.900	1052.600	5642.800	0.000	0.000

NH	5.000	0.040	3285.400	0.030	3799.900	0.080	3999.900	0.080	4599.900	0.130
NH	5557.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	3.890	42.000	3744.900	3999.900	480.000	520.000	500.000	0.000	0.000	0.000
GR	1053.500	1000.000	1049.300	1034.000	1049.800	1086.500	1048.400	1187.500	1049.000	1190.600
GR	1048.800	1199.900	1047.000	1232.700	1046.500	1399.900	1046.900	1599.900	1047.500	1799.900
GR	1047.900	1896.200	1048.700	1905.100	1047.500	1919.000	1047.400	1934.700	1048.600	1942.000
GR	1049.300	1984.000	1048.500	1999.900	1048.300	2010.600	1048.700	2038.000	1047.900	2075.200
GR	1047.700	2199.900	1047.700	2399.900	1047.500	2599.900	1047.200	2799.900	1047.000	2999.900
GR	1047.100	3199.900	1047.500	3285.400	1047.400	3399.900	1047.400	3599.900	1047.300	3730.500
GR	1046.300	3736.600	1047.300	3744.900	1047.500	3799.900	1047.100	3999.900	1047.300	4199.900
GR	1048.000	4399.900	1048.300	4599.900	1048.200	4799.900	1048.300	4999.900	1049.300	5199.900
GR	1051.100	5399.900	1051.800	5557.100	0.000	0.000	0.000	0.000	0.000	0.000

NH	4.000	0.040	3399.900	0.035	3950.000	0.100	4999.900	0.130	5842.000	0.000
X1	4.080	26.000	3599.900	3950.000	320.000	550.000	500.000	0.000	0.000	0.000
GR	1049.200	1000.000	1048.500	1199.900	1049.200	1399.900	1049.400	1799.900	1049.400	1999.900
GR	1049.900	2199.900	1049.700	2399.900	1049.200	2599.900	1048.400	2799.900	1048.400	2999.900
GR	1048.300	3199.900	1048.600	3399.900	1048.500	3599.900	1048.500	3799.900	1048.500	3950.000
GR	1048.800	4199.900	1049.300	4300.000	1049.600	4599.900	1050.500	4636.400	1049.600	4799.900
GR	1049.100	4999.900	1049.900	5199.900	1050.500	5399.900	1051.300	5599.900	1052.800	5799.900
GR	1053.500	5842.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

NH	4.000	0.100	1343.300	0.040	3971.300	0.080	5199.800	0.080	5867.300	0.000
X1	4.180	39.000	3999.900	4399.800	530.000	610.000	500.000	0.000	0.000	0.000
GR	1051.300	1000.000	1050.000	1092.300	1050.000	1115.300	1047.000	1123.600	1047.300	1199.900
GR	1048.700	1343.800	1047.200	1387.500	1047.400	1399.900	1047.600	1599.900	1047.100	1799.900
GR	1047.000	1999.900	1048.400	2199.900	1048.400	2294.300	1049.900	2376.100	1051.500	2290.500
GR	1048.300	2399.900	1047.300	2599.900	1047.300	2799.900	1047.000	2999.900	1047.500	3199.900
GR	1047.100	3399.300	1046.900	3599.900	1046.800	3799.900	1047.000	3886.800	1046.600	3894.000
GR	1047.000	3905.200	1047.100	3971.300	1049.200	3986.100	1049.300	3999.900	1048.700	4199.900
GR	1049.200	4399.800	1049.400	4465.000	1049.400	4799.800	1050.000	4999.800	1050.300	5199.300
GR	1050.400	5399.800	1051.700	5599.800	1052.400	5799.800	1053.500	5867.300	0.000	0.000

NH	6.000	0.100	1296.300	0.040	3926.900	0.080	4558.600	0.080	4958.500	0.035
NH	5673.900	0.100	6021.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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X1	4.270	41.000	4550.300	4758.500	700.000	510.000	500.000	0.000	0.000	0.000
GR	1050.300	1000.000	1047.900	1154.200	1049.900	1168.900	1049.500	1187.100	1049.100	1197.800
GR	1049.100	1199.900	1049.300	1296.300	1049.200	1307.400	1049.200	1399.900	1049.200	1599.900
GR	1049.200	1799.900	1049.200	1999.900	1048.900	2199.900	1048.800	2392.500	1049.900	2399.900
GR	1050.700	2409.700	1048.700	2424.200	1048.700	2599.900	1048.200	2799.900	1048.000	2999.900
GR	1047.900	3853.300	1048.000	3867.300	1048.000	3926.900	1047.900	3999.900	1049.200	4199.900
GR	1049.300	4399.900	1049.200	4550.300	1048.300	4558.600	1049.300	4758.500	1050.500	4958.500
GR	1050.800	5158.500	1051.300	5204.900	1050.500	5211.500	1050.200	5358.500	1050.500	5558.500
GR	1050.700	5659.400	1051.500	5673.800	1051.900	5758.500	1052.100	5821.200	1053.300	5958.500
GR	1053.800	6021.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

NH	4.000	0.040	2000.000	0.040	2400.000	0.500	3117.200	0.080	4810.100	0.000
X1	4.350	34.000	3117.200	3599.900	430.000	400.000	400.000	0.000	0.000	0.000
GR	1054.800	1000.000	1052.400	1014.600	1052.900	1019.900	1052.700	1030.400	1050.600	1043.100
GR	1050.200	1200.000	1049.700	1400.000	1049.400	1600.000	1049.100	1800.000	1049.000	2000.000
GR	1048.900	2200.000	1048.500	2395.700	1048.500	2400.000	1048.500	2447.800	1048.800	2454.300
GR	1048.600	2600.000	1049.000	2799.900	1050.600	2999.900	1049.800	3103.700	1049.100	3117.200
GR	1049.200	3199.900	1049.200	3399.900	1049.600	3599.900	1050.200	3799.900	1051.000	3819.700
GR	1050.600	3833.800	1051.300	3999.900	1051.800	4199.900	1052.000	4349.200	1051.400	4349.300
GR	1051.700	4492.700	1051.600	4549.200	1053.500	4749.200	1054.500	4810.100	0.000	0.000

NH	4.000	0.040	1800.000	0.040	2354.700	0.140	3199.900	0.080	5074.100	0.000
X1	4.440	28.000	3199.900	3599.900	450.000	530.000	480.000	0.000	0.000	0.000
GR	1054.700	1000.000	1054.700	1000.100	1052.400	1025.000	1053.700	1400.000	1054.200	1600.000
GR	1054.200	1800.000	1053.800	2000.000	1053.700	2200.000	1052.600	2342.200	1050.900	2354.700
GR	1051.000	2400.000	1050.800	2414.100	1051.400	2422.400	1050.300	2600.000	1050.300	2799.900
GR	1050.500	2999.900	1050.000	3199.900	1050.100	3399.900	1050.400	3599.900	1050.700	3799.900
GR	1051.300	3999.900	1052.100	4199.900	1053.800	4399.900	1053.300	4586.200	1052.500	4586.300
GR	1052.700	4786.200	1053.500	4986.200	1055.100	5074.100	0.000	0.000	0.000	0.000

NH	4.000	0.100	1800.000	0.079	2900.000	0.080	2999.900	0.040	4003.200	0.000
X1	4.530	29.000	1800.000	2600.000	560.000	420.000	440.000	0.000	0.000	0.000
GR	1052.800	1000.000	1052.700	1129.300	1051.400	1145.300	1050.400	1215.000	1050.800	1400.000
GR	1049.700	1578.500	1051.500	1591.700	1051.100	1600.000	1050.600	1800.000	1050.800	2000.000
GR	1050.600	2200.000	1050.900	2400.000	1051.200	2440.900	1051.400	2600.000	1051.700	2744.400
GR	1052.100	2756.100	1052.000	2799.900	1052.800	2920.300	1052.800	2999.900	1053.100	3199.900
GR	1054.200	3399.900	1053.900	3525.400	1053.400	3525.500	1053.400	3684.200	1052.700	3590.200
GR	1052.800	3725.400	1053.500	3843.300	1054.600	3925.400	1055.100	4003.200	0.000	0.000

NC	0.080	0.080	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	4.620	20.000	1400.000	2000.000	600.000	550.000	440.000	0.000	0.000	0.000
GR	1057.000	1000.000	1053.300	1027.100	1054.400	1053.700	1051.800	1208.800	1051.500	1400.000
GR	1051.900	1600.000	1052.500	1800.000	1053.100	2000.000	1054.200	2200.000	1054.800	2400.000
GR	1055.100	2600.000	1055.200	2755.200	1054.300	2755.300	1054.400	2955.200	1055.400	3038.300
GR	1054.900	3050.500	1054.500	3107.400	1055.400	3116.400	1055.400	3155.200	1055.300	3158.800

NC	0.045	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	4.695	18.000	1520.000	2000.000	550.000	640.000	440.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	1072.100	1000.000	1057.300	1200.000	1062.000	1400.000	1060.000	1472.500	1059.000	1479.900
GR	1058.100	1511.500	1058.400	1520.000	1057.700	1600.000	1057.400	1800.000	1058.000	2000.000

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GR   1058.900   2200.000   1058.900   2400.000   1058.800   2409.800   1059.000   2453.600   1058.500   2496.100
GR   1058.700   2500.400   1059.400   2600.000   1060.100   2752.900      0.000      0.000      0.000      0.000
```

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```
NC      0.045      0.045      0.045      0.000      0.000      0.000      0.000      0.000      0.000      0.000
SB      1.250      1.000      2.300      0.000      5.000      0.000      0.500      0.000      0.000      0.000
X1      4.700     18.000   1520.000   2000.000      5.000      5.000      5.000      0.000      0.000      0.000
X2      0.000      0.000      1.000   1057.500   1057.500      0.000      0.000      0.000      0.000      0.000
BT     18.000   1000.000   1072.100   1072.100   1200.000   1067.300   1067.300   1400.000   1062.000   1062.000
BT   1472.500   1060.000   1060.000   1479.900   1059.000   1059.000   1511.600   1058.100   1058.100   1520.000
BT   1058.400   1058.400   1600.000   1057.700   1057.700   1800.000   1057.400   1057.400   2000.000   1058.000
BT   1058.000   2200.000   1058.900   1058.900   2400.000   1058.900   1058.900   2409.800   1058.800   1058.800
BT   2453.600   1059.000   1059.000   2496.100   1058.500   1058.500   2500.400   1058.700   1058.700   2600.000
BT   1059.400   1059.400   2752.900   1060.100   1060.100      0.000      0.000      0.000      0.000      0.000
GR   1072.100   1000.000   1067.300   1200.000   1062.000   1400.000   1060.000   1472.500   1059.000   1479.900
GR   1058.100   1511.600   1058.400   1520.000   1057.700   1600.000   1057.400   1800.000   1058.000   2000.000
GR   1058.900   2200.000   1058.900   2400.000   1058.800   2409.800   1059.000   2453.600   1058.500   2496.100
GR   1058.700   2500.400   1059.400   2600.000   1060.100   2752.900      0.000      0.000      0.000      0.000

OT      2.000   2523.000   2523.000      0.000      0.000      0.000      0.000      0.000      0.000      0.000
NC      0.130      0.130      0.025      0.100      0.300      0.000      0.000      0.000      0.000      0.000
X1      4.790     26.000   2760.000   2850.000    510.000    500.000    500.000      0.000      0.000      0.000
GR   1077.700   1000.000   1085.600   1042.800   1083.600   1120.100   1055.700   1200.000   1054.400   1260.700
GR   1054.900   1305.300   1052.000   1400.000   1051.400   1421.000   1054.100   1447.400   1054.700   1501.200
GR   1054.300   1600.000   1053.700   1800.000   1053.600   2000.000   1054.000   2200.000   1054.700   2400.000
GR   1054.500   2600.000   1054.400   2760.000   1055.400   2789.300   1055.400   2800.000   1055.400   2850.000
GR   1055.800   2999.900   1056.100   3199.900   1056.500   3307.600   1057.800   3399.900   1057.900   3599.900
GR   1059.200   3633.400      0.000      0.000      0.000      0.000      0.000      0.000      0.000      0.000
EJ      0.000      0.000      0.000      0.000      0.000      0.000      0.000      0.000      0.000      0.000
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   O        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

*PROF 1

CCHV=   0.100 CEHV=   0.300
1490 NH CARD USED
*SECNO 0.060
        THIS MODEL IS A REVISED FLOOD PLAIN MODEL FOR THE REACH OF CAVE CREEK
        WASH EXTENDING  FROM THE SALT RIVER TO CROSS SECTION 4.79. REVISED
        12/6/89.
     0.06    20.40  1011.00     0.00  1011.00  1011.00     0.00     0.00     0.00  1002.00
    2257.     105.     702.    1450.    1045.    4021.   11483.       0.       0.   1000.40
     0.00     0.10     0.17     0.13    0.035    0.035    0.034    0.000   990.60  1047.73
 0.000001       0.       0.       0.        0        0        0     0.00  2553.67  3601.40
0
FLOW DISTRIBUTION FOR SECNO=      0.06          CWSEL=   1011.00

STA=    1048.    1290.    1600.    1800.    2000.    2106.    2165.    2328.    2600.    3000.    3200.    3400.    3601.
```

```
  PER O=      4.7     31.1     11.6     14.6     14.1      4.8      3.5      3.3      3.4      3.0      3.9      2.0
   AREA=   1045.2   4020.8   1850.0   2117.2   1622.5    576.0    821.6    989.5   1180.0    760.0    880.0    575.8
    VEL=      0.1      0.2      0.1      0.2      0.2      0.2      0.1      0.1      0.1      0.1      0.1      0.1

1490 NH CARD USED
*SECNO 0.100

3265 DIVIDED FLOW

     0.10     4.09  1010.99     0.00     0.00  1011.00     0.01     0.00     0.00  1012.00
    2257.       0.      342.    1915.       0.     452.    2212.     147.      30.  1006.90
     0.23     0.00     0.76     0.87    0.000    0.030    0.030    0.000  1006.90  1233.77
 0.000090     170.     230.     850.        0        0        0     0.00  1149.17  2732.54
0
FLOW DISTRIBUTION FOR SECNO=      0.10          CWSEL=   1010.99

STA=    1234.    1454.    1461.    1814.    2000.    2200.    2400.    2508.    2600.    2661.    2702.    2733.
  PER O=     15.2      0.4      0.1     10.8     13.8     17.9     12.1     15.0     10.2      3.9      0.6
   AREA=    452.1     14.4      2.9    343.8    410.0    480.0    297.6    316.7    213.5    101.8     30.9
    VEL=      0.8      0.7      0.4      0.7      0.8      0.8      0.9      1.1      1.1      0.9      0.5

1490 NH CARD USED
*SECNO 0.150
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   O        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3265 DIVIDED FLOW

     0.15     2.62  1011.02     0.00     0.00  1011.23     0.20     0.17     0.06  1011.00
    2257.       0.      645.    1612.       0.     229.     413.     168.      43.  1010.30
     0.27     0.06     2.82     3.91    0.030    0.030    0.042    0.000  1008.40  1299.39
 0.012407     190.     250.     630.        1        0        0     0.00  1137.03  2440.74
0
FLOW DISTRIBUTION FOR SECNO=      0.15          CWSEL=   1011.02

STA=    1295.    1925.    2000.    2060.    2082.    2138.    2174.    2200.    2236.    2314.    2438.    2441.
  PER O=     28.6     14.1     19.6      3.1      3.5      9.3      4.6      5.9      8.2      3.1      0.0
   AREA=    228.6     75.1     84.9     20.5     31.6     47.5     26.9     32.6     57.6     34.6      0.3
    VEL=      2.3      4.2      5.2      3.5      2.5      4.4      3.8      4.1      3.2      2.0      1.1

1490 NH CARD USED
*SECNO 0.190

3265 DIVIDED FLOW

     0.19     4.10  1012.20     0.00     0.00  1012.24     0.04     0.09     0.02  1010.40
    2257.     110.    1642.     505.      71.    1003.     342.     176.      51.  1010.40
     0.33     1.55     1.84     1.48    0.030    0.039    0.045    0.000  1008.10  1094.77
 0.001183     180.     210.     530.        3        0        0     0.00  1083.98  2199.82
0
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FLOW DISTRIBUTION FOR SECNO=      0.19          CWSEL=   1012.20

STA=    1095.    1200.    1908.    2000.    2045.    2088.    2200.
  PER O=      4.9     72.8     11.2      5.5      3.2      2.4
   AREA=     71.0   1003.4    156.3     76.6     44.8     64.7
    VEL=      1.5      1.6      1.6      1.6      1.6      0.9

1490 NH CARD USED
*SECNO 0.290

3265 DIVIDED FLOW

     0.29     4.38  1012.68     0.00     0.00  1012.73     0.05     0.49     0.00  1011.60
    2257.    1089.     827.     341.     528.     582.     258.     191.      62.   1010.90
     0.41     2.06     1.42     1.32    0.040    0.040    0.042    0.000  1007.80  1324.06
 0.000888     500.     500.     370.        4        0        0     0.00   982.41  2344.21
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   O        QLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      0.29          CWSEL=   1012.68

STA=    1324.    1346.    1398.    1455.    1600.    2000.    2090.    2185.    2344.
  PER O=      3.1     26.2     12.0      7.0     36.6      9.0      5.2      0.9
   AREA=     42.2    209.3    135.8    141.1    581.8    137.8     81.2     39.0
    VEL=      1.7      2.8      2.0      1.1      1.4      1.5      1.5      0.5

1490 NH CARD USED
*SECNO 0.380

3265 DIVIDED FLOW

     0.38     3.80  1013.20     0.00     0.00  1013.27     0.07     0.54     0.01  1011.90
    2257.    1355.     404.     498.     581.     218.     320.     206.      74.   1011.60
     0.48     2.33     1.85     1.56    0.037    0.030    0.035    0.000  1009.40  1354.99
 0.001240     520.     500.     530.        1        0        0     0.00   903.92  2350.92
0
FLOW DISTRIBUTION FOR SECNO=      0.38          CWSEL=   1013.20

STA=    1355.    1382.    1400.    1417.    1458.    1515.    1800.    2000.    2200.    2351.
  PER O=      4.6      8.7      6.9     15.9      7.6     16.3     17.9     19.4      2.7
   AREA=     51.6     64.2     54.4    128.6     94.2    187.6    218.4    251.2     68.4
    VEL=      2.0      3.1      2.9      2.8      1.8      2.0      1.8      1.7      0.9

1490 NH CARD USED
*SECNO 0.480

3265 DIVIDED FLOW

     0.48     1.53  1014.13     0.00     0.00  1014.23     0.11     0.95     0.01  1013.30
    2257.     475.     870.     913.     211.     280.     399.     216.      83.   1012.70
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     0.53     2.25     3.11     2.25    0.040    0.030    0.043    0.000  1012.60  1339.72
 0.004017     520.     500.     360.        2        0        0     0.00   965.77  2404.27
0
 FLOW DISTRIBUTION FOR SECNO=      0.48          CWSEL=   1014.13

 STA=    1340.    1600.    1979.    2200.    2404.
   PER Q=     31.0     38.5     39.8      0.7
    AREA=    211.1    280.0    282.9    115.2
     VEL=      2.2      3.1      3.2      0.1
```



```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENOST


 1490 NH CARD USED
 *SECNO 0.570

 3265 DIVIDED FLOW

     0.57     5.25  1015.25     0.00     0.00  1015.31     0.06     1.37     0.01  1014.30
    2257.      71.      158.    2028.      84.     181.    1028.     232.      98.  1015.20
     0.62     0.84     0.87     1.97    0.041    0.037    0.043    0.000  1010.00  1518.92
 0.000986     500.     500.     660.        2        0        0     0.00  1185.47  2749.46
0
 FLOW DISTRIBUTION FOR SECNO=      0.57          CWSEL=   1015.25

 STA=    1519.    1673.    2009.    2200.    2231.    2255.    2305.    2348.    2400.    2749.
   PER Q=      3.2      7.0      9.8      4.7      3.1     27.1     29.2     15.4      0.6
    AREA=     84.5    181.5    190.3     58.8     41.2    203.6    201.5    148.1    184.4
     VEL=      0.9      0.9      1.2      1.3      1.7      3.0      3.3      2.3      0.1

 *SECNO 0.620

 3265 DIVIDED FLOW

     0.62     2.38  1015.68     0.00     0.00  1015.78     0.10     0.46     0.01  1014.50
    2257.     177.      263.    1817.     104.     163.     665.     239.     105.  1016.00
     0.65     1.71     1.51     2.73    0.040    0.040    0.040    0.000  1013.30  1543.19
 0.003141     260.     270.     290.        2        0        0     0.00   974.78  2920.38
0
 FLOW DISTRIBUTION FOR SECNO=      0.62          CWSEL=   1015.68

 STA=    1543.    1708.    2000.    2381.    2400.    2422.    2434.    2475.    2530.    2600.    2700.    2920.
   PER Q=      7.8     11.6     25.4      7.4      7.1      3.5     11.1     15.4      7.2      3.3      0.0
    AREA=    103.7    163.0    238.7     45.3     46.3     24.5     77.9    107.8     69.8     54.2      1.0
     VEL=      1.7      1.6      2.4      3.7      3.4      3.2      3.2      3.2      2.3      1.4      0.5

 1490 NH CARD USED
 *SECNO 0.650

 3265 DIVIDED FLOW
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```
     0.66      2.57  1016.57      0.00      0.00  1016.89      0.32      1.04      0.07  1015.10
    2257.       316.      596.     1941.      134.      266.      417.      244.      109.   1016.80
     0.66      2.35      2.24      4.65     0.040     0.040     0.040     0.000  1014.00  1616.71
 0.000076      210.      225.      250.         3         0         0      0.00    746.96  2711.79
0
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
   O         OLOB      OCH       OROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


FLOW DISTRIBUTION FOR SECNO=      0.66          CWSEL=   1016.57

STA=    1617.    1800.    2155.    2535.    2600.    2650.    2700.    2712.
  PER O=      14.0      26.4       4.5      21.6      26.0      30.8       3.0
   AREA=     134.2     265.7      42.4     115.3     116.0     128.3      15.1
    VEL=       2.4       2.2       2.4       4.2       5.1       5.4       4.5

1490 NH CARD USED
*SECNO 0.760

3265 DIVIDED FLOW

     0.76      3.58  1017.58      0.00      0.00  1017.68      0.10      0.77      0.02  1016.10
    2257.       102.      220.     2155.      130.      162.      830.      255.      118.   1018.10
     0.72      0.79      1.36      2.60     0.040     0.040     0.030     0.000  1014.00  1625.29
 0.000874      500.      500.      510.         3         0         0      0.00    736.61  2585.25
0
FLOW DISTRIBUTION FOR SECNO=      0.76          CWSEL=   1017.58

STA=    1625.    1800.    2159.    2282.    2360.    2500.    2585.
  PER O=       4.5       9.3       0.3      16.9      55.4      12.3
   AREA=     129.5     162.4       8.4     174.0     494.8     152.8
    VEL=       0.8       1.4       0.8       2.2       3.0       1.9

1490 NH CARD USED
*SECNO 0.850

3265 DIVIDED FLOW

     0.85      4.05  1018.15      0.00      0.00  1018.42      0.26      0.69      0.05  1017.50
    2257.        22.      671.     2235.       20.      198.      604.      265.      127.   1019.80
     0.75      1.15      3.39      3.70     0.040     0.040     0.040     0.000  1014.10  1740.26
 0.004205      500.      500.      500.         3         0         0      0.00    824.23  2716.91
0
FLOW DISTRIBUTION FOR SECNO=      0.85          CWSEL=   1018.15

STA=    1740.    1800.    2073.    2154.    2187.    2200.    2214.    2337.    2705.    2717.
  PER O=       1.0      29.7      13.7      19.7       6.8      12.2      42.8       6.6       0.2
   AREA=      19.6     198.0      91.1      92.9      33.2      49.1     250.4      83.2       3.9
    VEL=       1.1       3.4       3.4       4.8       4.6       5.6       3.9       1.0       1.0
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         OLOB      OCH       OROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IOC       ICONT     CORAR     TOPWID      ENDST


 1490 NH CARD USED
 *SECNO 0.950

 3265 DIVIDED FLOW

      0.95      3.08  1019.48      0.00      0.00  1019.53      0.05      1.10      0.02  1019.30
    2257.        9.     742.     1507.       17.     381.     896.     278.      138.   1017.90
      0.63      0.52      1.95      1.38     0.040     0.040     0.040     0.000  1016.40  2556.60
  0.001305     540.     500.     510.         2         0         0      0.00    994.72  3568.45
0
 FLOW DISTRIBUTION FOR SECNO=      0.95          CWSEL=   1019.48

 STA=    2557.    2625.    2842.    2851.    3000.    3200.    3460.    3568.
   PER Q=      0.4     32.9      0.3      6.5     31.3     26.7      2.0
    AREA=     16.6    380.5      6.8    117.9    357.2    360.6     53.5
     VEL=      0.5      1.9      1.1      1.2      2.0      1.7      0.8

 1490 NH CARD USED
 *SECNO 1.040

 3265 DIVIDED FLOW

      1.04      1.85  1020.35      0.00      0.00  1020.46      0.11      0.91      0.02  1019.30
    2257.      101.     418.     1744.       68.     238.     595.     290.      147.   1019.00
      0.87      1.47      1.74      2.93     0.040     0.040     0.040     0.000  1018.50  2451.77
  0.000749     390.     500.     420.         2         0         0      0.00    903.82  3399.05
0
 FLOW DISTRIBUTION FOR SECNO=      1.04          CWSEL=   1020.35

 STA=    2452.    2560.    2962.    3182.    3382.    3399.
   PER Q=      4.5     18.3     43.9     33.0      0.4
    AREA=     66.1    237.8    318.8    268.6      7.1
     VEL=      1.5      1.7      3.1      2.8      1.3

 1490 NH CARD USED
 *SECNO 1.100

 3265 DIVIDED FLOW

      1.10      2.93  1020.93      0.00      0.00  1020.96      0.03      0.49      0.01  1019.40
    2257.      132.    1344.     381.      154.     899.     557.     299.      154.   1019.80
      0.94      0.86      1.50      1.40     0.040     0.039     0.040     0.000  1018.10  2170.64
  0.000763     200.     300.     380.         2         0         0      0.00   1126.62  3299.81


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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         OLOB      OCH       OROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
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   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=      1.10          CWSEL=   1020.93

 STA=    2171.    2372.    2915.    2961.    3161.    3300.
   PER Q=      5.9     59.5      6.9     23.7      4.0
    AREA=    153.7    898.8     95.3    355.4    106.0
     VEL=      0.9      1.5      1.6      1.5      0.9

 1490 NH CARD USED
 *SECNO 1.230

 3265 DIVIDED FLOW

      1.23     2.39  1021.59     0.00     0.00  1021.63     0.04     0.66     0.00  1021.00
     2257.     772.     1279.     206.     507.     828.     109.     322.     173.   1019.80
      1.05     1.52     1.54     1.89    0.040    0.040    0.040    0.000  1019.20  2112.69
  0.001392     650.     700.     555.        3        0        0     0.00  1293.66  3413.34
0
 FLOW DISTRIBUTION FOR SECNO=      1.23          CWSEL=   1021.59

 STA=    2113.    2272.    2355.    2555.    2636.    3340.    3389.    3413.
   PER Q=      3.0      9.0     18.8      3.4     56.7      7.9      1.2
    AREA=     72.6    112.0    258.2     64.1    828.2     87.2     21.7
     VEL=      0.9      1.8      1.6      1.2      1.5      2.0      1.3

 *SECNO 1.330

 3265 DIVIDED FLOW

      1.33     2.47  1022.27     0.00     0.00  1022.31     0.04     0.68     0.00  1022.30
     2257.     910.     1347.      0.     582.     834.      0.     337.     187.   1023.10
      1.14     1.56     1.61     0.15    0.040    0.040    0.040    0.000  1019.80  1986.58
  0.001495     420.     500.     540.        2        0        0     0.00  1372.00  3706.76
0
 FLOW DISTRIBUTION FOR SECNO=      1.33          CWSEL=   1022.27

 STA=    1987.    2098.    2198.    2208.    2219.    2298.    2498.    2646.    3654.    3707.
   PER Q=      1.1      5.0      0.4      1.0     13.5     17.7      1.5     59.7      0.0
    AREA=     37.1     87.0      7.9     14.1    142.5    243.5     49.5    834.5      0.4
     VEL=      0.7      1.3      1.3      1.6      2.1      1.6      0.7      1.6      0.1


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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   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 1.420

 3265 DIVIDED FLOW
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```
     1.42     1.94  1023.24     0.00     0.00  1023.33     0.09     1.01     0.02  1023.20
    2257.      90.    2062.      104.     102.     319.      52.     351.     200.   1021.30
     1.19     0.89     2.52     2.01    0.040    0.040    0.040    0.000  1021.30  1360.74
 0.003047     440.     500.     550.        2        0        0     0.00  1071.29  3656.25
0
 FLOW DISTRIBUTION FOR SECNO=      1.42          CWSEL=   1023.24

 STA=    1361.    2497.    3000.    3603.    3656.
   PER O=      3.3      0.7     91.4      4.6
    AREA=     93.4      8.7    819.4     51.9
     VEL=      0.3      1.7      2.5      2.0

 1490 NH CARD USED
 *SECNO 1.520

 3265 DIVIDED FLOW

     1.52     2.50  1024.50     0.00     0.00  1024.57     0.08     1.24     0.00  1023.80
    2257.     231.     149.    1877.     220.      98.     794.     363.     213.   1023.50
     1.26     1.05     1.52     2.36    0.038    0.040    0.040    0.000  1022.00  1393.82
 0.002084     500.     500.     490.        2        0        0     0.00  1185.04  3818.38
0
 FLOW DISTRIBUTION FOR SECNO=      1.52          CWSEL=   1024.50

 STA=    1394.    2158.    3200.    3315.    3600.    3760.    3818.
   PER O=      3.8      6.5      6.6     35.3     41.5      6.3
    AREA=     80.0    140.1     97.9    384.7    336.7     72.7
     VEL=      1.1      1.0      1.5      2.1      2.8      2.0

 1490 NH CARD USED
 *SECNO 1.610

 3265 DIVIDED FLOW

     1.61     2.13  1025.53     0.00     0.00  1025.59     0.06     1.02     0.00  1024.80
    2257.     400.    1854.       2.     414.     880.       3.     376.     228.   1025.00
     1.33     0.97     2.11     0.71    0.040    0.040    0.040    0.000  1023.40  1215.32
 0.002102     400.     500.     500.        2        0        0     0.00  1765.92  3652.69
0

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   O        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=      1.61          CWSEL=   1025.53

STA=    1215.    1800.    1906.    2800.    3000.    3640.    3653.
  PER O=      3.3      4.3      4.8      5.3     82.2      0.1
   AREA=     39.3     72.6    144.3    107.3    880.4      3.4
    VEL=      0.8      1.3      0.8      1.1      2.1      0.7

1490 NH CARD USED
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*SECNO 1.710

3265 DIVIDED FLOW

     1.71      1.60  1026.70      0.00      0.00  1026.77      0.07      1.18      0.00  1025.40
    2257.      119.    1209.      929.      178.      586.      396.      390.      247.   1025.40
     1.40      0.67      2.06      2.34     0.042     0.035     0.035     0.000  1025.10  2323.42
 0.002442      370.      500.      580.         2         0         0      0.00  1903.29  4751.81
0
 FLOW DISTRIBUTION FOR SECNO=      1.71          CWSEL=   1026.70

 STA=    2323.    3200.    3800.    4400.    4680.    4752.
   PER Q=      3.3      2.0     53.6     38.3      2.9
    AREA=     92.4     85.7    585.7    352.6     43.4
     VEL=      0.8      0.5      2.1      2.4      1.5

 1490 NH CARD USED
 *SECNO 1.800

 3265 DIVIDED FLOW

     1.80      2.73  1027.93      0.00      0.00  1027.99      0.05      1.21      0.00  1026.80
    2257.      794.    1458.        6.      865.      663.       10.      405.      266.   1027.70
     1.48      0.92      2.20      0.55     0.099     0.035     0.035     0.000  1025.20  1743.63
 0.002399      500.      500.      500.         2         0         0      0.00  1447.53  3712.03
0
 FLOW DISTRIBUTION FOR SECNO=      1.80          CWSEL=   1027.93

 STA=    1744.    1979.    2200.    2400.    3026.    3636.    3712.
   PER Q=      7.9     20.8      5.3      1.2     64.6      0.3
    AREA=    230.8    418.6    177.6     38.3    663.2     10.2
     VEL=      0.8      1.1      0.7      0.7      2.2      0.6


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


 1490 NH CARD USED
 *SECNO 1.900

 3265 DIVIDED FLOW

     1.90      2.72  1028.72      0.00      0.00  1028.76      0.04      0.78      0.00  1027.10
    2257.      339.    1336.      282.      641.      896.      196.      425.      285.   1026.90
     1.56      0.40      1.83      1.44     0.114     0.040     0.040     0.000  1026.00  1705.54
 0.001082      510.      500.      480.         3         0         0      0.00  1759.95  3783.17
0
 FLOW DISTRIBUTION FOR SECNO=      1.90          CWSEL=   1028.72

 STA=    1706.    3000.    3110.    3600.    3711.    3783.
   PER Q=      5.5      9.5     72.5     10.9      1.6
    AREA=    695.4    145.1    896.0    158.6     37.7
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    VEL=      0.2       1.5       1.8       1.5       1.0

1490 NH CARD USED
*SECNO 1.980

3265 DIVIDED FLOW

      1.98      1.82  1029.32      0.00      0.00  1029.39      0.07      0.62      0.01  1028.70
     2257.       50.      434.     1773.       55.      277.      776.      440.      299.  1028.60
      1.62      0.91      1.57      2.29     0.035     0.035     0.035     0.000  1027.50  2284.62
  0.002228      410.      410.      410.         2         0         0      0.00  1351.32  3770.44
0
 FLOW DISTRIBUTION FOR SECNO=      1.98          CWSEL=   1029.32

 STA=    2285.    2600.    3000.    3200.    3400.    3515.    3770.
   PER Q=      2.2     19.2     26.4     37.6     10.5      4.1
    AREA=     55.0    277.0    253.5    313.5    117.1     91.6
     VEL=      0.9      1.5      2.3      2.7      2.0      1.0

1490 NH CARD USED
*SECNO 2.060

3265 DIVIDED FLOW

      2.06      1.78  1030.18      0.00      0.00  1030.23      0.06      0.84      0.00  1030.50
     2257.        0.      121.     2136.        0.      185.     1091.      452.      314.  1030.50
      1.69      0.00      0.65      1.96     0.000     0.063     0.035     0.000  1028.40  2399.39
  0.001536      460.      460.      460.         2         0         0      0.00  1413.39  4473.31
0
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         OLOB      OCH       OROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.06          CWSEL=   1030.18

 STA=    2399.    2750.    2980.    3100.    3220.    3450.    3680.    3688.    4350.    4420.    4473.
   PER Q=      5.4     11.8     22.0     21.0     30.7      8.9      0.0      0.1      0.2      0.1
    AREA=    185.0    173.1    207.4    201.3    328.4    155.9      0.7      6.5     12.5      4.7
     VEL=      0.7      1.5      2.4      2.3      2.1      1.3      0.3      0.2      0.3      0.3

1490 NH CARD USED
*SECNO 2.140

3265 DIVIDED FLOW

      2.14      1.87  1031.07      0.00      0.00  1031.13      0.06      0.89      0.00  1030.60
     2257.       50.      449.     1758.       45.      224.      887.      463.      330.  1030.70
      1.74      1.13      2.01      1.98     0.030     0.030     0.041     0.000  1029.40  2211.08
  0.003554      400.      400.      400.         2         0         0      0.00  2018.34  5237.01
0
 FLOW DISTRIBUTION FOR SECNO=      2.14          CWSEL=   1031.07
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STA=    2211.    2400.    3800.    2935.    2984.    4519.    4543.    4594.    4794.    4994.    5194.    5237.
  PER O=      2.2      19.9       3.7       4.8       8.4       3.9       8.4      29.3      15.6       4.7       0.5
   AREA=     44.5     223.9      44.1      41.2     180.7      29.1      59.4     254.4     174.4      34.4       9.4
    VEL=      1.1       2.0       1.6       2.8       1.0       2.5       2.7       2.6       2.0       1.2       0.8

1490 NH CARD USED
*SECNO 2.190

3265 DIVIDED FLOW

     2.19     1.36  1031.66      0.00      0.00  1031.59      0.03      0.56      0.00  1031.10
    2257.      81.      364.     1811.      97.      269.     1246.      472.      343.   1031.00
     1.80     0.34      1.35      1.45     0.332     0.030     0.037     0.000  1029.80  2061.49
 0.001267     280.      280.      280.         1         0         0      0.00  2177.66  5190.41
0
FLOW DISTRIBUTION FOR SECNO=      2.19          CWSEL=   1031.66

STA=    2061.    2400.    2800.    2911.    4181.    4381.    4435.    4488.    4581.    4781.    4981.    5181.    5190.
  PER O=      3.6      16.1       6.6       3.5       5.6       3.5       4.0       9.0      17.0      19.3      10.7       0.1
   AREA=     97.1     269.2      94.2      90.4     119.6      47.9      56.3     125.5     249.6     269.6     189.6       2.9
    VEL=      0.8       1.4       1.6       0.9       1.3       1.6       1.6       1.6       1.5       1.6       1.3       0.6

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   O         OLOB      OCH       OROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   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 2.230

3265 DIVIDED FLOW

     2.23     1.38  1032.18  1032.16      0.00  1032.41      0.23      0.66      0.06  1032.30
    2257.       2.      104.     2151.       5.      119.      551.      478.      352.   1032.10
     1.81     0.38      0.87      3.90     0.100     0.100     0.039     0.000  1031.10  2142.38
 0.017435     210.      210.      210.         2        12         0      0.00  1523.88  5060.10
0
FLOW DISTRIBUTION FOR SECNO=      2.23          CWSEL=   1032.18

STA=    2142.    2200.    2500.    4311.    4353.    4396.    4596.    4796.    4996.    5060.
  PER O=      0.1       4.6       6.1       3.8       4.2      31.4      34.5      14.7       0.4
   AREA=      5.0     119.0      53.5      19.3      26.8     164.5     174.5     104.5       7.9
    VEL=      0.4       0.9       2.6       4.4       3.5       4.3       4.5       3.2       1.2

1490 NH CARD USED
*SECNO 2.300

3265 DIVIDED FLOW

     2.30     0.62  1033.42      0.00      0.00  1033.45      0.03      1.02      0.02  1032.80
    2257.     453.      111.     1693.     344.      153.     1132.      489.      371.   1032.80
     1.90     1.31      0.73      1.50     0.030     0.030     0.030     0.000  1030.80  1753.55
 0.000378     370.      350.      450.         7         0         0      0.00  2335.44  4861.53
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0
 FLOW DISTRIBUTION FOR SECNO=      2.30          CWSEL=   1033.42

 STA=    1754.    2000.    2152.    2283.    2303.    2800.    3917.    4085.    4285.    4485.    4685.    4765.    4852.
   PER Q=      3.1      7.9      4.6      4.5      4.9      4.3      8.7     15.7     16.9     20.7      7.8      1.0
    AREA=     87.4    132.8     92.3     47.4    153.3    138.2    146.6    224.0    234.1    264.1    101.7     23.0
     VEL=      0.9      1.3      1.3      2.4      0.7      0.7      1.3      1.6      1.6      1.8      1.7      1.0

 1490 NH CARD USED
 *SECNO 2.350

 3265 DIVIDED FLOW

      2.35     6.65  1033.75     0.00     0.00  1033.80     0.05     0.35     0.01  1033.50
     2257.     551.     135.    1705.     303.      48.    1065.     497.     363.   1033.90
      1.93     1.82     2.80     1.60    0.030    0.030    0.060    0.000  1027.10  1649.19
  0.003340     270.     290.     210.        4        0        0     0.00  2311.81  5248.77
0
1
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    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        OLOB     OCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.35          CWSEL=   1033.75

 STA=    1649.    2000.    2050.    2170.    2400.    2800.    4019.    4097.    4210.    4379.    4697.    4728.    4738.
   PER Q=      9.7      4.0      6.2      4.5      6.0      9.9      5.0      8.4     10.6     12.5      4.7     15.1
    AREA=    134.7     37.7     69.9     60.6     48.0    208.8     78.1    124.7    169.3    238.9     44.7     67.2
     VEL=      1.5      2.4      2.0      1.7      2.8      1.1      1.4      1.5      1.4      1.2      2.4      5.1
 STA=    4738.    4821.    5240.    5250.
   PER Q=      4.1      4.7      0.4
    AREA=     54.9     61.1      7.4
     VEL=      1.4      1.7      1.2

 1490 NH CARD USED
 *SECNO 2.410

 3265 DIVIDED FLOW

      2.41     3.81  1034.61     0.00     0.00  1034.65     0.04     0.85     0.00  1035.50
     2257.     685.       1.    1572.     345.       1.    1024.     506.     397.   1034.20
      1.98     1.99     0.44     1.53    0.032    0.060    0.060    0.000  1030.80  1508.98
  0.002610     310.     280.     280.        3        0        0     0.00  1714.76  4885.26
0
 FLOW DISTRIBUTION FOR SECNO=      2.41          CWSEL=   1034.51

 STA=    1509.    1600.    1800.    1905.    1993.    2702.    3862.    4062.    4130.    4196.    4222.    4262.    4452.
   PER Q=      4.0     12.5     12.0      1.8      0.8      6.6     13.3      5.2     17.1     13.5      3.8      9.5
    AREA=     49.5    141.2    106.7     47.9      1.3    186.0    221.1     82.2    165.1     99.5     54.6    181.2
     VEL=      1.8      2.0      2.5      0.9      0.4      0.8      1.4      1.4      2.3      3.1      1.6      1.2
 STA=    4462.    4885.
   PER Q=      0.8
    AREA=     34.5
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   VEL=      0.5

 1490 NH CARD USED
 *SECNO 2.510

 3265 DIVIDED FLOW

         ELEVATION AT BEGINING OF CROSS SECTION IS SET ARTIFICIALLY HIGH SO THAT
         THE 100-YEAR DISCHARGE IS CONTAINED WITHIN  CAVE CREEK.
     2.51     1.43  1036.43     0.00     0.00  1036.48     0.05     1.83     0.00  1036.40
    2257.       1.       4.    2256.       7.       7.    1320.     524.     422.   1036.50
     2.07     0.15     0.49     1.71    0.060    0.060    0.054    0.000  1035.00  2184.23
 0.003930     560.     550.     580.        3        0        0     0.00  2153.62  4789.46
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   O        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      2.51          CWSEL=   1036.43

 STA=    2184.    2400.    2800.    3114.    3760.    3945.    4160.    4360.    4560.    4644.    4789.
   PER O=      0.0      0.2      3.2     13.9     19.2     25.4     16.9     16.3      3.4      1.6
    AREA=      6.5      7.3     89.9    254.2    236.6    297.4    226.2    146.3     40.5     28.6
     VEL=      0.2      0.5      0.8      1.2      1.8      1.9      1.7      2.5      1.9      1.2

 *SECNO 2.600

 3265 DIVIDED FLOW

         ELEVATION AT BEGINING OF CROSS SECTION IS SET ARTIFICIALLY HIGH SO THAT
         THE 100-YEAR DISCHARGE IS CONTAINED WITHIN CAVE CREEK.
     2.60     2.99  1037.99     0.00     0.00  1038.01     0.03     1.53     0.00  1037.00
    2257.     349.     683.    1225.    1271.     341.    1324.     548.     447.   1038.20
     2.19     0.27     2.00     0.92    0.500    0.035    0.100    0.000  1035.00  2059.42
 0.002493     450.     500.     500.        2        0        0     0.00  2287.31  5223.09
0
 FLOW DISTRIBUTION FOR SECNO=      2.60          CWSEL=   1037.99

 STA=    2059.    2400.    2576.    2605.    3000.    3200.    3400.    3510.    3600.    3795.    4850.    5223.
   PER O=      7.9      7.0      0.6     30.3      3.1     10.0      5.2      8.8     21.9      5.0      0.3
    AREA=    695.4    515.9     59.3    341.2    120.5    257.6    136.0    172.7    407.6    208.3     21.5
     VEL=      0.3      0.3      0.2      2.0      0.6      0.9      0.9      1.1      1.2      0.5      0.3

 *SECNO 2.730
         ELEVATION AT BEGINING OF CROSS SECTION IS SET ARTIFICIALLY HIGH SO THAT
         THE 100-YEAR DISCHARGE IS CONTAINED WITHIN CAVE CREEK.
     2.73     2.21  1039.21     0.00     0.00  1039.24     0.03     1.22     0.00  1038.00
    2257.     172.    1092.     993.     368.     582.    2075.     591.     483.   1038.00
     2.35     0.47     1.37     0.48    0.140    0.035    0.140    0.000  1037.00  2491.47
 0.001507     620.     650.     640.        1        0        0     0.00  2644.79  5136.26
0
 FLOW DISTRIBUTION FOR SECNO=      2.73          CWSEL=   1039.21
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STA=    2491.    2750.    2820.    3300.    3450.    3580.    3790.    4435.    4600.    5100.    5136.
  PER Q=      5.2      2.4     48.4      3.5      3.2     11.6     16.3      4.0      5.2      0.0
   AREA=    255.2    102.4    582.4    179.1    145.6    412.3    782.6    194.9    356.5      3.9
    VEL=      0.4      0.5      1.9      0.4      0.5      0.6      0.5      0.5      0.3      0.1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

*SECNO 2.820

3265 DIVIDED FLOW

        ELEVATION AT BEGINING OF CROSS SECTION IS SET ARTIFICIALLY HIGH SO THAT
        THE 100-YEAR DISCHARGE IS CONTAINED WITHIN CAVE CREEK.
     2.82     2.47  1040.37     0.00     0.00  1040.38     0.01     1.14     0.00  1039.30
    2257.      212.     555.    1490.     855.     494.    1642.     625.     512.  1038.70
     2.50     0.25     1.12     0.91    0.500    0.100    0.140    0.000  1037.90  2573.40
 0.004073     500.     490.     490.        1        0        0     0.00  2432.25  5307.04
0
FLOW DISTRIBUTION FOR SECNO=      2.82          CWSEL=   1040.37

STA=    2573.    2800.    3000.    3161.    3545.    3800.    3945.    4026.    4545.    4745.    5307.
  PER Q=      4.5      3.0      1.8     24.5     25.8     17.7      6.6      3.2      5.3      2.4
   AREA=    381.0    284.8    189.0    494.2    529.4    336.3    148.0    285.3    184.8    158.3
    VEL=      0.3      0.2      0.2      1.1      1.1      1.2      1.0      0.6      0.6      0.3

*SECNO 2.860
        ELEVATION AT BEGINING OF CROSS SECTION IS SET ARTIFICIALLY HIGH SO THAT
        THE 100-YEAR DISCHARGE IS CONTAINED WITHIN CAVE CREEK
     2.86     2.01  1041.41     0.00     0.00  1041.49     0.08     1.08     0.02  1039.90
    2226.      264.    1554.     407.    1132.     571.     788.     643.     529.  1040.20
     2.54     0.23     2.72     0.52    0.500    0.045    0.140    0.000  1039.40  2542.13
 0.004040     300.     230.     300.        3        0        0     0.00  2655.19  5197.31
0
FLOW DISTRIBUTION FOR SECNO=      2.86          CWSEL=   1041.41

STA=    2542.    2800.    3200.    3400.    3786.    3986.    4586.    4786.    5186.
  PER Q=      5.0      4.4      2.5     69.8      4.2      5.5      5.1      3.4
   AREA=    419.1    462.2    251.1    570.8    151.1    273.3    181.1    172.2
    VEL=      0.3      0.2      0.2      2.7      0.6      0.4      0.6      0.4

1490 NH CARD USED
*SECNO 2.940

3265 DIVIDED FLOW

        ELEVATION AT BEGINING OF CROSS SECTION IS SET ARTIFICIALLY HIGH SO THAT
        THE 100-YEAR DISCHARGE IS CONTAINED WITHIN CAVE CREEK.
     2.94     3.75  1041.86     0.00     0.00  1041.88     0.01     0.38     0.01  1040.40
    2226.    1437.     235.     554.    1484.     320.    1846.     672.     555.  1040.50
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     2.88      0.97      0.73      0.30     0.044     0.040     0.112     0.000  1036.10  2499.49
 0.000412      400.      400.      410.         4         0         0      0.00  2967.61  5866.14
```



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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS   BANK ELEV
   O         OLOB      OCH       OROB      ALOB      ACH       AROB      VOL       TWA   LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN      SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      2.94          CWSEL=   1041.86

STA=    2499.    2667.    2800.    3000.    3200.    3400.    3781.    4349.    4549.    4749.    5149.    5386.    5749.
  PER O=      3.9     14.3     19.2     14.3     12.8     10.6      4.4      5.1      3.9      4.8      3.0      3.4
   AREA=    231.5    273.0    373.1    313.1    293.1    320.3    268.6    343.1    293.1    406.2    227.4    285.8
    VEL=      0.4      1.2      1.1      1.0      1.0      0.7      0.4      0.3      0.3      0.3      0.3      0.3
STA=    5749.    5866.
  PER O=      0.1
   AREA=     21.4
    VEL=      0.1

1490 NH CARD USED
*SECNO 3.040

3265 DIVIDED FLOW

     3.04      3.72  1042.02      0.00      0.00  1042.03      0.01      0.16      0.00  1041.40
    2226.      784.      255.     1187.     1108.      362.     1866.      710.      588.  1040.40
     2.38      0.71      0.70      0.64     0.040     0.035     0.046     0.000  1038.30  1031.37
 0.000264      470.      500.      480.         3         0         0      0.00  2899.81  4105.23

FLOW DISTRIBUTION FOR SECNO=      3.04          CWSEL=   1042.02

STA=    1031.    1200.    1400.    1600.    1800.    1930.    2300.    2600.    2754.    2998.    3198.    4034.    4105.
  PER O=      9.5      7.4      7.6      7.5      3.1     11.4     26.9     15.1      5.1      3.0      3.0      0.2
   AREA=    262.4    235.5    245.0    245.0    120.4    361.8    517.4    280.3    314.7    285.0    456.4     12.0
    VEL=      0.8      0.7      0.7      0.7      0.6      0.7      1.2      1.2      0.4      0.2      0.1      0.3

1490 NH CARD USED
*SECNO 3.130

3265 DIVIDED FLOW

     3.13      3.52  1042.32      0.00      0.00  1042.39      0.07      0.34      0.02  1041.80
    2226.     1433.      526.      267.      681.      218.      502.      737.      516.  1041.00
     2.95      2.10      2.41      0.53     0.040     0.040     0.127     0.000  1038.30  1036.72
 0.004302      500.      500.      500.         2         0         0      0.00  2849.17  3813.56

FLOW DISTRIBUTION FOR SECNO=      3.13          CWSEL=   1042.32

STA=    1037.    1200.    1400.    1600.    1800.    2000.    2234.    3004.    3204.    3604.    3814.
  PER O=      3.2     11.3     21.0     17.5     11.3     23.6      3.4      3.5      4.7      0.3
   AREA=     41.6    134.9    194.9    174.9    134.8    218.0    131.9    134.8    211.6     23.9
    VEL=      1.7      1.9      2.4      2.2      1.9      2.4      0.5      0.6      0.5      0.3
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         OLOB      OCH       OROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   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 3.230

3265 DIVIDED FLOW

     3.23      2.95  1043.35      0.00      0.00  1043.38      0.03      0.98      0.00  1042.20
    2226.     1164.      551.      511.      919.      344.      358.      755.      638.  1041.30
     3.05      1.27      1.60      1.43     0.040     0.040     0.038     0.000  1040.40  1050.85
 0.001118      500.      500.      510.         3         0         0      0.00  1678.59  3086.72

FLOW DISTRIBUTION FOR SECNO=      3.23          CWSEL=   1043.35

STA=    1051.    1200.    1400.    1600.    1800.    2000.    2235.    2362.    3007.    3087.
  PER Q=      4.2     12.0     11.1     12.0     13.0     24.7     17.1      5.8      0.1
   AREA=     82.2    209.1    199.1    209.1    219.1    344.4    215.2    137.0      5.8
    VEL=      1.1      1.3      1.2      1.3      1.3      1.6      1.8      0.9      0.3

1490 NH CARD USED
*SECNO 3.320

3265 DIVIDED FLOW

     3.32      3.43  1043.93      0.00      0.00  1043.96      0.03      0.59      0.00  1042.70
    2226.     1060.      947.      219.      753.      591.      196.      773.      655.  1043.10
     3.14      1.41      1.60      1.12     0.040     0.040     0.036     0.000  1040.50  1084.22
 0.001237      500.      500.      490.         3         0         0      0.00  1456.18  3278.81

FLOW DISTRIBUTION FOR SECNO=      3.32          CWSEL=   1043.93

STA=    1084.    1200.    1400.    1600.    1800.    2235.    2303.    2963.    3279.
  PER Q=      3.1     14.5     14.5     15.5     42.6      5.2      3.2      1.4
   AREA=     62.7    226.7    226.7    236.7    591.5     67.0     67.2     41.8
    VEL=      1.1      1.4      1.4      1.5      1.6      1.7      0.8      0.7

1490 NH CARD USED
*SECNO 3.390

3265 DIVIDED FLOW

     3.39      1.52  1044.62      0.00      0.00  1044.78      0.16      0.78      0.04  1044.50
    2217.       63.      1200.      954.       44.      336.      336.      782.      665.  1043.20
     3.17      1.44      3.57      2.34     0.040     0.033     0.033     0.000  1043.10  1091.44
 0.005245      430.      330.      310.         3         0         0      0.00   903.50  2995.12
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=      3.39          CWSEL=   1044.62

 STA=    1091.    1630.    2300.    2585.    2995.
   PER Q=      2.9     54.1     33.2      9.8
    AREA=     44.0    335.9    234.1    102.1
     VEL=      1.4      3.6      3.1      2.1

 1490 NH CARD USED
 *SECNO 3.420

 3265 DIVIDED FLOW

     3.42     1.83  1045.03     0.00     0.00  1045.04     0.02     0.24     0.01  1044.00
    2217.     525.    1322.     371.     607.    1093.    1054.     793.     677.   1043.90
     3.24     0.87     1.21     0.35    0.040    0.034    0.085    0.000  1043.20  1188.30
 0.000393     150.     170.     450.        3        0        0     0.00  2375.31  3604.17
0
 FLOW DISTRIBUTION FOR SECNO=      3.42          CWSEL=   1045.03

 STA=    1188.    1400.    1600.    1648.    1723.    2400.    2600.    3519.    3604.
   PER Q=      6.5     12.7      3.6      0.9     59.6     13.3      3.4      0.0
    AREA=    197.7    295.2     77.6     36.1   1092.7    255.2    780.3     18.1
     VEL=      0.7      1.0      1.0      0.5      1.2      1.2      0.1      0.0

 1490 NH CARD USED
 *SECNO 3.510

 3265 DIVIDED FLOW

     3.51     4.58  1045.18     0.00     0.00  1045.21     0.03     0.16     0.00  1045.70
    2217.      45.    1367.     804.     155.     879.    1081.     822.     705.   1045.00
     3.35     0.30     1.55     0.74    0.040    0.027    0.032    0.000  1040.60  1170.28
 0.000261     670.     500.     450.        3        0        0     0.00  2383.17  3832.95
0
 FLOW DISTRIBUTION FOR SECNO=      3.51          CWSEL=   1045.18

 STA=    1170.    1991.    2400.    2800.    2909.    2972.    3000.    3101.    3482.    3833.
   PER Q=      2.1     51.6      9.3      3.6      7.1      3.2      3.4      6.8      2.9
    AREA=    155.1    879.0    312.2    107.2    128.6     57.6     93.7    247.9    134.0
     VEL=      0.3      1.6      0.7      0.7      1.2      1.2      0.8      0.6      0.5


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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
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*SECNO 3.610

3265 DIVIDED FLOW

     3.61     3.95  1045.35     0.00     0.00  1045.38     0.03     0.18     0.00  1045.10
    2217.      48.     783.    1387.      55.     614.     930.     840.     725.  1044.80
     3.45     0.86     1.27     1.49    0.040    0.031    0.030    0.000  1041.40  1151.52
 0.000702     360.     500.     380.        2        0        0     0.00  2050.83  3890.62
0
FLOW DISTRIBUTION FOR SECNO=      3.61          CWSEL=   1045.35

STA=    1152.    2200.    2800.    2952.    3000.    3014.    3073.    3400.    3493.    3693.    3803.    3857.    3891.
  PER Q=      2.1     35.3      3.9      4.9      3.9     14.0      7.5      4.2      4.4      4.7     13.8      1.3
   AREA=     55.2    614.1     91.5     66.1     35.3    135.6    184.4     79.0    110.4     74.3    130.0     23.2
    VEL=      0.9      1.3      0.9      1.6      2.5      2.3      0.9      1.2      0.9      1.4      2.4      1.3

1490 NH CARD USED
*SECNO 3.660
     3.66     1.84  1045.74     0.00     0.00  1045.76     0.03     0.38     0.00  1045.20
    2217.     976.     321.     920.     848.     238.     669.     857.     750.  1044.80
     3.54     1.15     1.35     1.38    0.036    0.035    0.035    0.000  1043.90  1335.97
 0.001016     500.     300.     500.        2        0        0     0.00  2573.72  3909.69
0
FLOW DISTRIBUTION FOR SECNO=      3.66          CWSEL=   1045.74

STA=    1336.    2200.    2600.    2800.    2951.    2961.    3200.    3400.    3506.    3589.    3699.    3823.    3882.
  PER Q=      3.9      8.3     17.3     14.0      0.5     14.5     12.9      7.4      6.7      4.9      3.3      5.4
   AREA=    194.0    204.3    246.6    194.3      8.9    238.2    206.6    115.1     98.1     91.4     64.0     74.7
    VEL=      0.4      0.9      1.6      1.6      1.3      1.3      1.4      1.4      1.5      1.2      1.1      1.6
STA=    3882.    3910.
  PER Q=      0.9
   AREA=     18.6
    VEL=      1.0

1490 NH CARD USED
*SECNO 3.730
     3.73     1.40  1046.40  1046.31     0.00  1046.47     0.07     0.69     0.01  1046.00
    2217.     695.     924.     597.     523.     347.     298.     869.     772.  1045.20
     3.59     1.33     2.66     2.01    0.041    0.040    0.042    0.000  1045.00  1302.83
 0.006212     370.     350.     290.        7       14        0     0.00  3083.91  4386.74
0
1
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
  Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  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=   1046.40

STA=    1303.    1800.    2230.    2620.    3000.    3400.    3490.    3538.    3800.    4387.
  PER Q=     10.5      9.5      4.6      6.7     41.7     17.9      3.2      3.1      2.8
   AREA=    167.5    149.7     91.3    114.3    347.0    116.5     31.3     51.1     88.4
    VEL=      1.4      1.4      1.1      1.3      2.7      3.4      2.2      1.1      0.7
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1490 NH CARD USED
*SECNO 3.830

3265 DIVIDED FLOW

     3.83      1.45  1047.45      0.00      0.00  1047.47      0.02      0.99      0.01  1046.30
     2217.      957.      700.      556.      966.      573.      636.      886.      805.   1046.30
     3.71      1.00      1.23      0.88     0.040     0.037     0.049     0.000   1046.00  1173.52
 0.001099      325.      500.      580.         4         0         0      0.00   3549.20  4837.04
0
FLOW DISTRIBUTION FOR SECNO=      3.83          CWSEL=   1047.45

STA=    1174.    1400.    1600.    2000.    2400.    3200.    3861.    4000.    4261.    4661.    4837.
  PER Q=     17.3     10.2      4.4      3.7      7.6     31.7     11.1      8.9      3.9      1.3
   AREA=    270.0    189.6    149.2    127.4    223.5    572.9    159.1    247.8    174.7     54.4
    VEL=      1.4      1.2      0.7      0.6      0.8      1.2      1.5      0.8      0.5      0.5

1490 NH CARD USED
*SECNO 3.890

3265 DIVIDED FLOW

     3.89      2.42  1047.72      0.00      0.00  1047.72      0.01      0.26      0.00  1046.50
     2217.     1833.      248.      136.     2477.      429.      701.      917.      845.   1046.60
     3.91      0.74      0.58      0.19     0.036     0.058     0.121     0.000   1045.30  1206.26
 0.000304      580.      360.      320.         4         0         0      0.00   3722.26  4966.77
0
FLOW DISTRIBUTION FOR SECNO=      3.89          CWSEL=   1047.72

STA=    1206.    1400.    1600.    1800.    2200.    2510.    2800.    3000.    3200.    3349.    3400.    3600.    3800.
  PER Q=      6.7      7.6      4.2      3.3      6.3      6.6      4.2      6.5      6.0      3.5     13.9     13.1
   AREA=    211.0    233.6    163.5    179.1    245.3    242.4    163.5    213.5    181.2     72.1    283.6    273.6
    VEL=      0.7      0.7      0.6      0.4      0.6      0.6      0.6      0.7      0.7      1.1      1.1      1.1
STA=    3800.    3812.    4100.    4600.    4967.
  PER Q=      0.6     11.2      3.7      2.5
   AREA=     14.5    429.5    438.7    262.5
    VEL=      1.0      0.6      0.2      0.2


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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         OLOB      OCH       OROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   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 3.930

3265 DIVIDED FLOW

     3.93      1.68  1047.98      0.00      0.00  1048.00      0.02      0.27      0.00  1047.30
     2217.     1998.      110.      110.     1619.      167.      220.      949.      883.   1047.10
     4.02      1.23      0.66      0.50     0.038     0.052     0.080     0.000   1046.30  1214.93
 0.001323      490.      500.      520.         2         0         0      0.00   3027.91  4392.80
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FLOW DISTRIBUTION FOR SECNO=      3.99          CWSEL=   1047.98

STA=    1215.    1400.    1600.    1800.    2600.    2800.    3000.    3200.    3400.    3600.    3731.    3745.    4000.
  PER Q=     14.6     18.9      8.0      5.9      5.6      9.6     10.7      5.1      6.5      4.9      1.5      4.9
   AREA=   213.5    255.0    155.3    189.2    125.0    175.0    185.0    107.8    115.1     81.6     16.9    166.7
    VEL=      1.5      1.6      1.1      0.6      1.0      1.2      1.3      1.0      1.2      1.3      2.0      0.7
STA=    4000.    4200.    4393.
  PER Q=      4.0      1.0
   AREA=    155.0     55.1
    VEL=      0.6      0.3

1490 NH CARD USED
*SECNO 4.080

3265 DIVIDED FLOW

     4.08     0.65  1049.05     0.00     0.00  1049.18     0.14     1.15     0.03  1048.50
    2217.    1445.     672.     101.     521.     190.     104.     961.     904.  1048.50
     4.06     2.77     3.53     0.97    0.039    0.035    0.100    0.000  1048.40  1044.62
 0.015570     320.     500.     550.        2        0        0     0.00  1920.34  4248.68
0
FLOW DISTRIBUTION FOR SECNO=      4.08          CWSEL=   1049.05

STA=    1045.    1200.    1355.    2800.    3000.    3200.    3400.    3600.    3950.    4200.    4249.
  PER Q=      3.7      3.7      5.1     20.1     10.8      7.0     14.7     30.3      4.4      0.1
   AREA=     42.2     42.3     51.8    126.8     88.7     68.7     98.7    190.3     98.4      5.9
    VEL=      1.9      1.9      2.2      3.5      2.7      2.3      3.3      3.5      1.0      0.5

1490 NH CARD USED
*SECNO 4.180
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VOH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3265 DIVIDED FLOW

     4.18     2.69  1049.29     0.00     0.00  1049.30     0.00     0.10     0.01  1049.30
    2217.    2209.       8.       0.    5333.     127.       1.     999.     936.  1049.20
     4.41     0.41     0.06     0.02    0.042    0.080    0.080    0.000  1046.60  1117.03
 0.000053     530.     500.     510.        4        0        0     0.00  3215.32  4430.20
0
FLOW DISTRIBUTION FOR SECNO=      4.18          CWSEL=   1049.29

STA=    1117.    1388.    1600.    1800.    2000.    2200.    2600.    2800.    3000.    3200.    3400.    3600.    3800.
  PER Q=      3.6      7.0      7.4      9.4      5.3      5.3      7.7      8.7      8.1      7.7      9.3     10.3
   AREA=    415.8    383.4    398.6    448.6    318.6    375.2    398.6    428.6    408.6    398.6    458.6    486.6
    VEL=      0.2      0.4      0.4      0.5      0.4      0.3      0.4      0.5      0.4      0.4      0.5      0.5
STA=    3800.    3887.    3971.    3999.    4400.    4430.
  PER Q=      4.6      4.1      0.1      0.4      0.0
   AREA=    208.0    194.1     17.5    127.3      1.4
    VEL=      0.5      0.5      0.1      0.1      0.0
```

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1490 NH CARD USED
*SECNO 4.270

3265 DIVIDED FLOW

     4.27     1.47  1049.37     0.00     0.00  1049.38     0.01     0.09     0.00  1049.20
    2217.    2182.      35.       0.    2555.     118.       0.    1064.     990.   1049.30
     4.64     0.85     0.30     0.04    0.043    0.080    0.080    0.000  1047.90  1046.59
 0.000549     700.     500.     510.        3        0        0     0.00  3674.03  4769.41
0
FLOW DISTRIBUTION FOR SECNO=      4.27          CWSEL=   1049.37

STA=    1047.    2200.    2600.    2800.    3000.    3853.    3927.    4200.    4550.    4759.    4769.
  PER Q=      3.7      6.1      6.8     11.6     59.8      4.9      5.4      0.2      1.6      0.0
   AREA=    283.3    218.9    183.1    253.1   1208.0    101.2    266.5     40.5    118.1      0.4
    VEL=      0.3      0.5      0.8      1.0      1.1      1.1      0.4      0.1      0.3      0.0

1490 NH CARD USED
*SECNO 4.350

3265 DIVIDED FLOW

1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


     4.35     1.38  1049.88     0.00     0.00  1049.91     0.03     0.52     0.01  1049.10
    2217.    1944.     269.       5.    1307.     293.      13.    1085.    1018.   1049.60
     4.73     1.49     0.92     0.35    0.066    0.080    0.080    0.000  1048.50  1327.27
 0.004734     430.     400.     400.        3        0        0     0.00  2183.56  3593.81
0
FLOW DISTRIBUTION FOR SECNO=      4.35          CWSEL=   1049.88

STA=    1327.    1600.    1800.    2000.    2200.    2396.    2600.    3117.    3600.    3694.
  PER Q=      3.8     10.7     17.0     20.5     29.8      3.5      2.4     12.1      0.2
   AREA=     73.0    126.4    166.3    186.4    231.3    252.2    271.1    293.2     13.2
    VEL=      1.2      1.9      2.3      2.4      2.9      0.3      0.2      0.9      0.3

1490 NH CARD USED
*SECNO 4.440
     4.44     1.76  1051.76     0.00     0.00  1051.78     0.02     1.87     0.00  1050.00
    2217.     812.     960.     445.    1081.     542.     418.    1105.    1040.   1050.40
     4.34     0.75     1.49     1.06    0.140    0.080    0.080    0.000  1050.00  2348.41
 0.003441     450.     480.     530.        2        0        0     0.00  1765.47  4113.88

FLOW DISTRIBUTION FOR SECNO=      4.44          CWSEL=   1051.76

STA=    2348.    2600.    2800.    3000.    3200.    3600.    3800.    4000.    4114.
  PER Q=      5.7     10.5      9.3     11.1     43.3     13.4      5.2      0.5
   AREA=    217.6    291.0    271.2    301.2    642.4    241.2    151.2     26.0
    VEL=      0.6      0.8      0.8      0.8      1.5      1.2      0.9      0.4
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1490 NH CARD USED
*SECNO 4.530
     4.53     2.38  1052.58     0.00     0.00  1052.59     0.01     0.80     0.00  1050.50
    2217.     941.    1159.     107.    1291.    1384.     205.    1134.    1059.   1051.40
     5.01     0.73     0.84     0.52    0.100    0.079    0.080    0.000  1049.70  1130.78
 0.000971     560.     440.     420.        4        0        0     0.00  1756.41  2887.19
0
FLOW DISTRIBUTION FOR SECNO=      4.53          CWSEL=   1052.58

STA=    1131.    1215.    1400.    1579.    1800.    2600.    2744.    2887.
  PER O=      3.6     12.1     15.3     11.5     52.7      4.0      0.8
   AREA=    125.7    356.3    415.9    382.7   1384.2    148.7     56.5
    VEL=      0.6      0.7      0.8      0.7      0.8      0.6      0.3

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   O        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST

*SECNO 4.620

3265 DIVIDED FLOW

     4.62     2.04  1053.54     0.00     0.00  1053.59     0.05     0.99     0.01  1051.50
    2217.     892.    1316.       9.     453.     785.      18.    1158.    1075.   1053.10
     5.09     1.97     1.68     0.51    0.080    0.080    0.080    0.000  1051.50  1025.34
 0.005706     600.     440.     550.        2        0        0     0.00   982.80  2080.15
0
FLOW DISTRIBUTION FOR SECNO=      4.52          CWSEL=   1053.54

STA=    1025.    1033.    1209.    1400.    2000.    2080.
  PER O=      0.0      5.2     35.0     59.4      0.4
   AREA=      0.9     90.4    361.5    784.5     17.7
    VEL=      0.3      1.3      2.1      1.7      0.5

*SECNO 4.699

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     4.70     1.17  1058.57  1058.57     0.00  1058.95     0.38     5.04     0.10  1058.40
    2217.      15.    2115.      87.       7.     420.      37.    1167.    1084.   1058.00
     5.12     2.29     5.03     2.37    0.045    0.045    0.045    0.000  1057.40  1494.99
 0.027710     550.     440.     640.        3       11        0     0.00   639.65  2497.64

FLOW DISTRIBUTION FOR SECNO=      4.70          CWSEL=   1058.57

STA=    1495.    1512     1520.    2000.    2127.    2498.
  PER O=      0.4      0.3     95.4      3.9      0.0
   AREA=      3.9      2.7    420.4     36.3      0.3
    VEL=      2.1      2.6      5.0      2.4      0.5
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SPECIAL BRIDGE

5070.VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   O        OLOB     OCH      ORCB     ALOB     ACH      ARCB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IOC      ICONT    CORAR    TOPWID     ENDST


SB  XK        XKOR      COFO      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.00      2.30      0.00      5.00      0.00      0.50      0.00   1057.40   1057.40

*SECNO 4.700

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW


 EGPRS      EGLWC       H3       OWEIR      OPR       BAREA   TRAPEZOID      ELLC     ELTRD
                                                                 AREA
 306343.63   1058.95      0.00     2228.        3.        1.        1.     1057.50   1057.50


     4.70      1.59  1058.99      0.00      0.00  1059.13      0.14      0.18      0.00  1058.40
    2217.       35.    1956.      225.       20.     625.      154.     1167.     1084.   1058.00
     5.12      1.73      3.13      1.47     0.045    0.045     0.045     0.000  1057.40  1479.96
 0.006312        5.        5.        5.         2         0        10      0.00  1062.35  2542.85

FLOW DISTRIBUTION FOR SECNO=      4.70          CWSEL=   1058.99

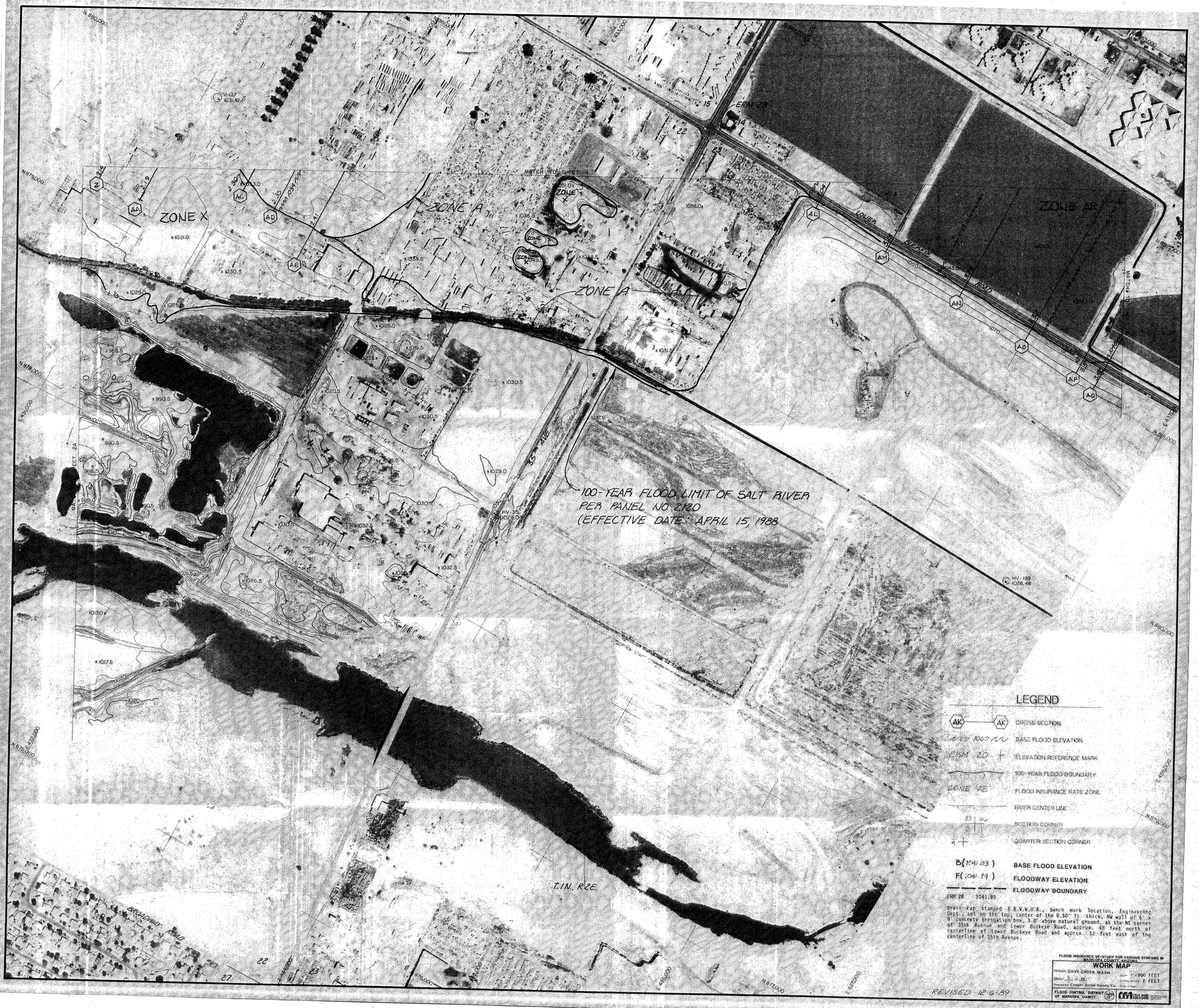
STA=    1480.    1512.    1520.    2000.    2200.    2400.    2410.    2453.    2496.    2500.    2543.
  PER C=      1.0      0.6     88.2      8.7      0.5      0.0      0.1      0.5      0.1      0.2
   AREA=     14.2      6.3    625.2    109.7     19.7      1.5      4.3     10.5      1.7      6.3
    VEL=      1.5      2.2      3.1      1.8      0.6      0.7      0.6      1.0      1.4      0.7

CCHV=   0.100 CEHV=   0.300
*SECNO 4.790
3280 CROSS SECTION      4.79 EXTENDED      0.02 FEET

     4.79      7.81  1059.21      0.00      0.00  1059.22      0.00      0.07      0.01  1054.40
    2523.     1847.     364.      313.     7972.     358.     1995.     1232.     1105.   1055.40
     5.54      0.23      1.02      0.16     0.130    0.025     0.130     0.000  1051.40  1189.93
 0.000046      510.      500.      500.         3         0         0      0.00  2443.47  3633.40

FLOW DISTRIBUTION FOR SECNO=      4.79          CWSEL=   1059.21

STA=    1190.    1305.    1400.    1447.    1600.    1800.    2000.    2200.    2400.    2500.    2760.    2850.    3000.
  PER C=      3.8      5.4      3.7      3.3      9.7     10.8     10.3      3.6      7.9      5.7     14.4      3.9
   AREA=    474.2    546.0    328.5    725.0   1043.2   1113.2   1083.2    973.2    923.2    762.5    358.1    542.0
    VEL=      0.2      0.3      0.3      0.2      0.2      0.2      0.2      0.2      0.2      0.2      1.0      0.2
STA=    3000.    3200.    3600.    3633.
```


ZONE X
ZONE A
ZONE A
ZONE AE
ERM 28
LOWER BUCKEYE ROAD
35th AVE
100-YEAR FLOOD LIMIT OF SALT RIVER
PER PANEL NO. 2120
(EFFECTIVE DATE: APRIL 15, 1988
T.1N., R.2E.
BROADWAY ROAD
LEGEND
CROSS SECTION
BASE FLOOD ELEVATION
ELEVATION REFERENCE MARK
100-YEAR FLOOD BOUNDARY
FLOOD INSURANCE RATE ZONE
RIVER CENTER LINE
SECTION CORNER
QUARTER SECTION CORNER
B(1041.03) BASE FLOOD ELEVATION
F(1041.79) FLOODWAY ELEVATION
FLOODWAY BOUNDARY
ERM 28 1041.89
Brass cap stamped S.R.V.W.U.A., bench mark location, Engineering Dept., set on the top, center of the 0.50' ft. thick, NW wall of 6' x 9' concrete irrigation box, 3.0' above natural ground, at the NE corner of 35th Avenue and Lower Buckeye Road, approx. 48 feet north of centerline of Lower Buckeye Road and approx. 52 feet east of the centerline of 35th Avenue.
FLOOD INSURANCE RE-STUDY FOR VARIOUS STREAMS IN MARICOPA COUNTY, ARIZONA
WORK MAP
Stream CAVE CREEK WASH
Sheet 3 of 19
Scale 1" = 200 FEET
Contour Interval 2 FEET
Mapped by Cooper Aerial Survey Co.
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CBA CRAIG BARR ASSOCIATES
REVISED 12-6-89

LEGEND

(AK)——(AK)	CROSS SECTION
1060	BASE FLOOD ELEVATION
ERM 20	ELEVATION REFERENCE MARK
	100-YEAR FLOOD BOUNDARY
ZONE AE	FLOOD INSURANCE RATE ZONE
	RIVER CENTER LINE
35 | 36 / 2 | 1	SECTION CORNER
1/4	QUARTER SECTION CORNER
B(1041.03)	BASE FLOOD ELEVATION
F(1041.79)	FLOODWAY ELEVATION
	FLOODWAY BOUNDARY

ERM 26 1053.00

Chiselled 2" x 2" '+', in top, North corner of 5' x 8' concrete irrigation box, 1.7' above natural ground, at SW corner of Buckeye Road and 35th Avenue, approx. 56 feet south of the centerline of Buckeye Road and approx. 52 feet west of the centerline of 35th Avenue.

ERM 27 1037.73

Chiselled '+' in top, SE corner of irrigation box at NW corner of 39th Avenue and Lower Buckeye.

ERM 28 1041.89

Brass cap stamped S.R.V.W.U.A., bench mark location, Engineering Dept., set on the top, center of the 0.50' ft. thick, NW wall of 6' x 9' concrete irrigation box, 3.0' above natural ground, at the NE corner of 35th Avenue and lower Buckeye Road, approx. 48 feet north of centerline of Lower Buckeye Road and approx. 52 feet east of the centerline of 35th Avenue.

ERM 25 1040.64

City of Phoenix brass cap in handhole at the intersection of 35th Avenue and Durango Street.

FLOOD INSURANCE RE-STUDY FOR VARIOUS STREAMS IN MARICOPA COUNTY, ARIZONA

WORK MAP

Stream: CAVE CREEK WASH — Scale: 1" = 200 Feet

Sheet 4 of 19 — Contour Interval: 2 Feet

Mapping by: Cooper Aerial Survey Co. — Date of Flight:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CBA CELLA BARR ASSOCIATES

REVISED 12-6-89