FLOOD INSURANCE STUDY
FOR
TRILBY WASH
APPENDICES A & B
(BOOK 1 OF 2)

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FLOOD INSURANCE STUDY
FOR
TRILBY WASH
APPENDICES A & B
(BOOK 1 OF 2)

FLOOD INSURANCE STUDY
FOR
TRILBY WASH

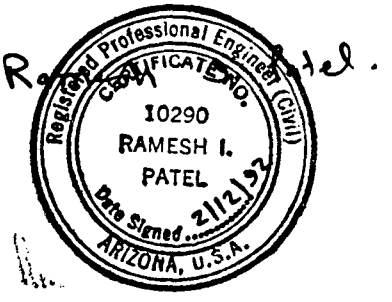
FROM THE CAP AQUEDUCT TO GRAND AVENUE NEAR CIRCLE CITY
MARICOPA COUNTY, ARIZONA

Prepared for:

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
2801 WEST DURANGO STREET
PHOENIX, ARIZONA 85009

CONTRACT FCD 90-24
P&D TECHNOLOGIES PROJECT NO. 10320.00

APPENDICES A & B
(BOOK 1 OF 2)



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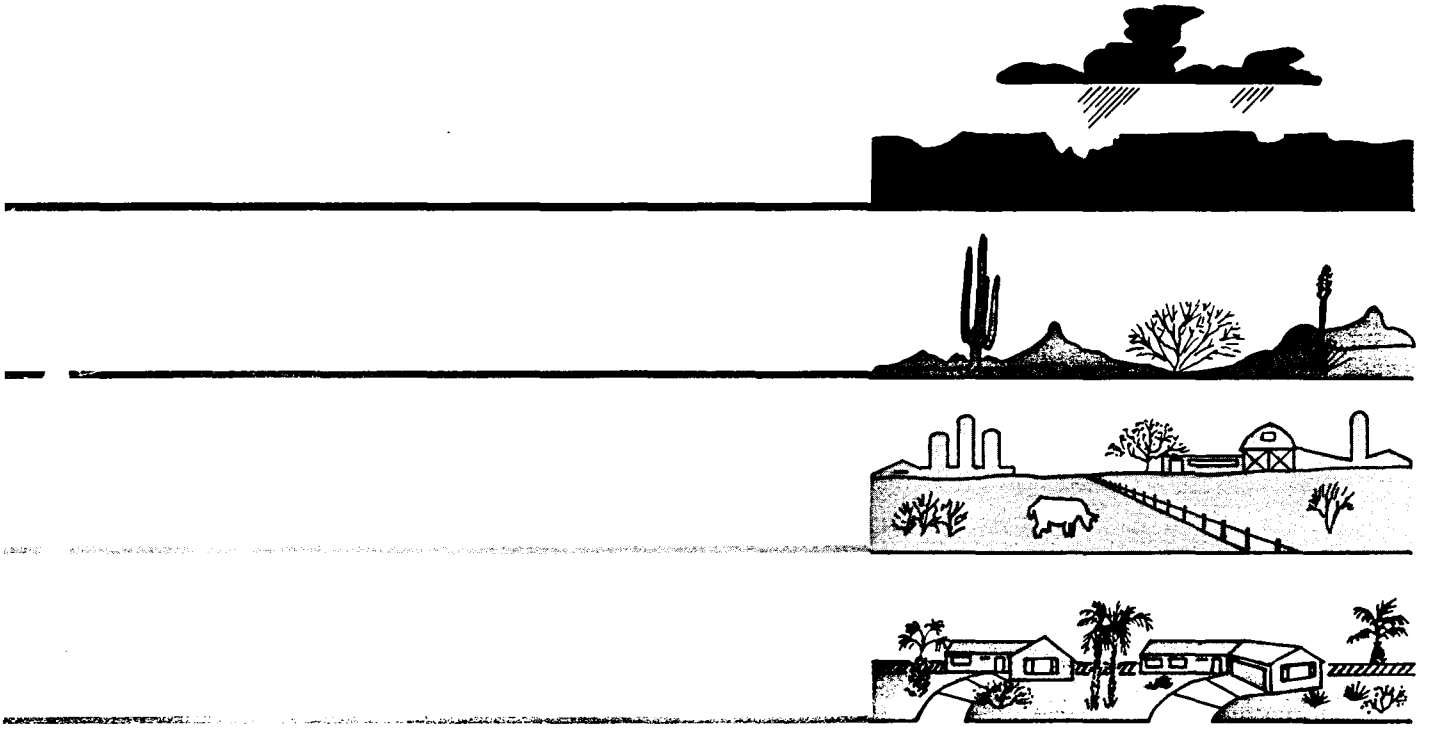
FEBRUARY 6, 1992

APPENDIX A

A HYDROLOGIC ANALYSIS OF TRILBY WASH WATERSHED



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

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Report on

A HYDROLOGIC ANALYSIS OF TRILBY WASH WATERSHED

Prepared by

Flood Control District of Maricopa County
Hydrology Division

August 1991

A HYDROLOGIC ANALYSIS
OF
TRILBY WASH WATERSHED

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INTRODUCTION

1.1 Purpose

The purpose of this project is to develop the 100 year discharges at critical points along the main branch of Trilby Wash, which is contained within the Wittmann ADMS, from its crossing of State Route 60-89, to its crossing of the Central Arizona Project (CAP).

1.2 Background

The Wittmann ADMS covers the largely undeveloped 322 square mile basin that drains into McMicken Dam and the McMicken Dam Outlet Channel. The purpose of the ADMS was to identify existing drainage problems and to plan for future development and stormwater management. Trilby Wash is contained within the Wittmann watershed. The hydrology was accepted and approved by FEMA in 1989.

1.3 Study Area

Trilby Wash is an ephemeral wash in central Maricopa County located approximately 30 miles northwest of Metropolitan Phoenix as outlined on Figure 1. The watershed is characterized with broad slopes prone to sheet flow and with few small incised channels as tributaries. Trilby Wash carries flows southeasterly into the McMicken Dam storage basin.

The Trilby Wash study area is contained within the Wittmann Area Drainage Master Study (ADMS). The ADMS was developed by the WLB Group under contract with the Flood Control District (FCD) of Maricopa County, and is used for the basis of this hydrologic study. The aforementioned study was completed in May 1989.

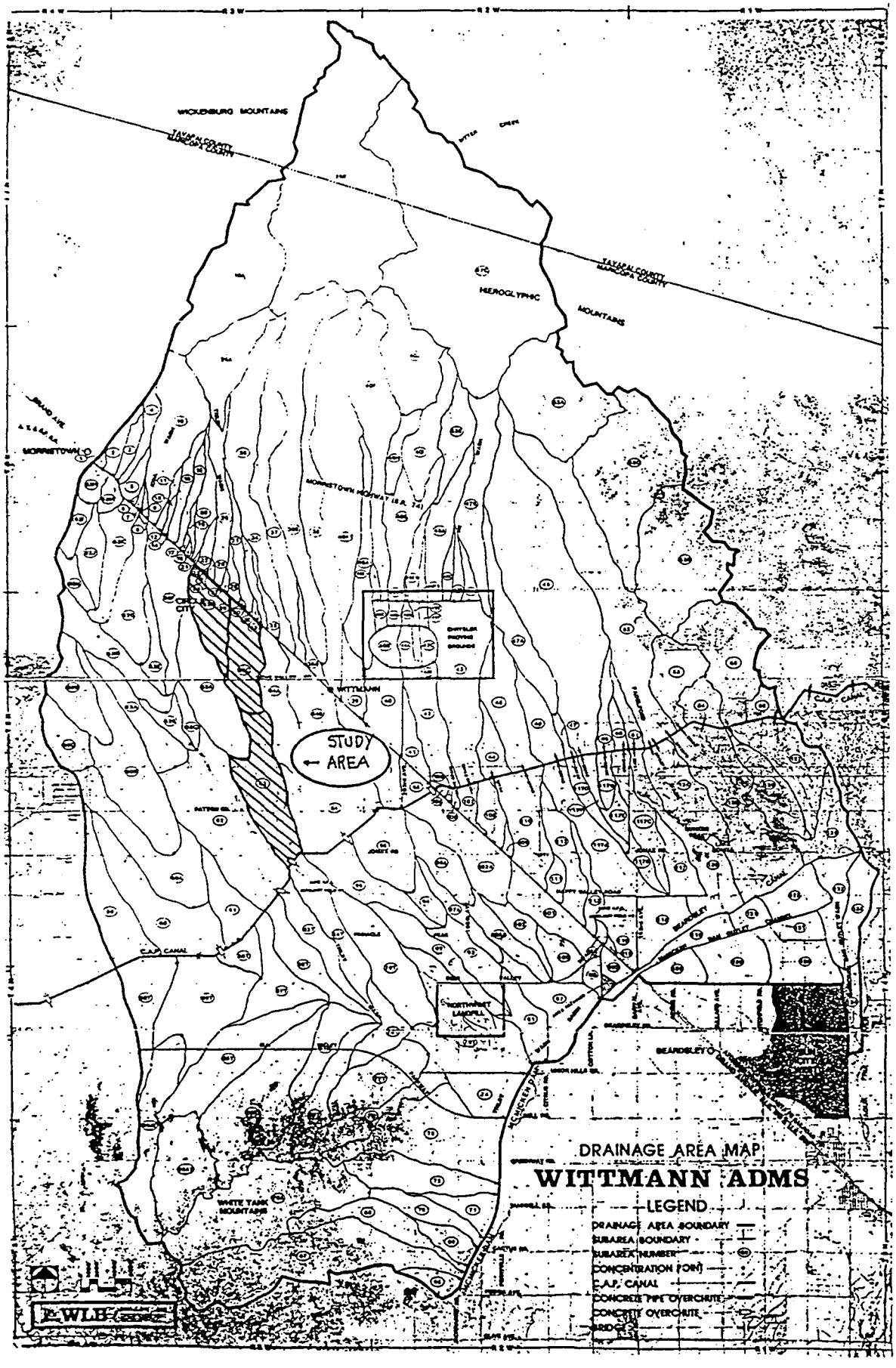
WICKENBURG MOUNTAINS
HIEROGLYPHIC
MOUNTAINS
MORRISTOWN
WITTMANN
STUDY
AREA
C.A.P. CANAL
WHITE TANK
MOUNTAINS
BEARDSLEY
DRAINAGE AREA MAP
WITTMANN ADMS
LEGEND
DRAINAGE AREA BOUNDARY
SUBAREA BOUNDARY
SUBAREA NUMBER
CONCENTRATION POINT
C.A.P. CANAL
CONCRETE PIPE OVERCHUTE
CONCRETE OVERCHUTE
BRIDGE
EWLB

Figure 1

WATERSHED CHARACTERISTICS

2.1 Watershed Delineation

As was mentioned above, Trilby Wash was delineated as part of the Wittmann ADMS. This study applied the Wittmann ADMS by redelineating pertinent subwatersheds within Trilby Wash. These watersheds were broken down into smaller subwatersheds where new concentration points were needed in order to evaluate the peak discharges.

The parameters in the new model were revised for the necessary parameters using the 7.5' U.S.G.S topographic maps.

2.2 Land Use

The watershed is rural in nature and essentially consists of desert terrain. There is some existing private residential development which consists of single family lots in excess of 1 acre in size. Individual dwelling units are very scattered.

2.3 Soils

The watershed is characterized by flat desert valley, and the typical soils type is a (sandy loam). This correlates to an SCS Hydrologic Group (A) soil, so therefore the watershed can be characterized as having a low runoff potential.

HYDROLOGIC METHODS

3.1 Model

The watershed was modeled utilizing methodology used in the Wittmann ADMS. The Wittmann ADMS uses the HEC-1 rainfall-runoff computer model developed by the U.S. Army Corps of Engineers. The ADMS uses the 1985 version of HEC-1 with a 900 ordinate capability.

3.2 Precipitation

The 100-year, 6-hour storm total of 4.21 inches for the entire watershed was determined using the "NOAA Atlas No. 2, Precipitation - Frequency Atlas of the Western United States, Vol. VIII - Arizona", dated 1973.. Rainfall was distributed in time using the SCS Type II, 24 hour rainfall distribution. The time increment used in the distribution was 15 minutes.

Point rainfall values were aerially reduced by the use of the depth area curve in the NOAA Atlas.

3.3 Rainfall Excess

The Soil Conservation Service curve number method was used to calculate precipitation losses. Curve numbers were interpolated from SCS Technical Release No. 55. This document relates curve number to the hydrologic soil group, soil cover, land use type, and antecedent moisture conditions.

3.4 Unit Hydrographs

The unit hydrograph for this watershed was determined using the Corps of Engineers S-Graph computations for unit hydrographs. The S-Graph program has been developed for the Phoenix Mountain and Phoenix Valley areas. This should give a more reliable unit hydrograph for the HEC-1 program to utilize within the Wittmann ADMS area.

3.5 Channel Routing

The washes in the study area are natural with no lining or improvements and therefore significant storage and attenuation of the flood hydrographs would be expected. To account for attenuation, the Muskingum routing method was used.

The Muskingum x coefficient (wedge storage factor) was set equal to 0.2 which is commonly used in absence of observed data. The Muskingum K coefficient (HEC-1 variable AMSKK) was set equal to the travel time in the routing reach. The number of routing steps (HEC-1 variable NSTPS) was set equal to 1 for each reach.

RESULTS

Due to the nature of these hydrologic computer simulations and the sensitivity of the kinematic wave, the results obtained by the newly developed model did not compare well with those estimated in the ADMS at matching concentration points. The differences at the CAP were approximately 10 percent. Therefore, we pro-rated these values based on the rates developed by the new, more detailed model. The results are listed on Table 1.

TRILBY WASH 100-YEAR PEAK DISCHARGE

Concentration Point	Wittmann ADMS Discharge-cfs	FCD Detail Discharge-cfs
Sta. 17.262	2,785	2,785
63B2	* -----	2,995
63B3	* -----	3,020
63B	3,035	3,035
63C	3,322	3,322
C631	* -----	3,706
C632	* -----	3,756
C633	* -----	3,805
C63	3,851	3,851
Sta. 10.444	3,845	3,845
Sta. 10.382	3,780	3,780

* Concentration points of the Trilby Wash FIS concerns

REFERENCES

1. The WLB Group Inc., Wittmann Area Drainage Master Study, Prepared for the Flood Control District of Maricopa County, May 1989.

APPENDIX A-1

Subbasin Areas

1 sq mile = 28127389

Basin	Plan. Count	area	-7% adjusted	WLB	@area
6300	4484675.3	0.159	0.148		
6302	22692045.0	0.807	0.750		
6304	11485522	0.408	0.379		
6305	4794676	0.170	0.158		
63 B	43846087 [1.56]	→ [1.54]	$\xrightarrow[-7\%]{}$		1.44

1 sq mile = 0.9926218

			Adjusted (+14%)
6306	0.386225	0.389	0.443
6307	1.6734252	1.081	1.232
63C	1.4685465 [1.48]	→ [1.47]	$\xrightarrow[+14\%]{}$ 1.70

			adjusted (-8%)
6308	0.3232136	0.326	0.300
6310	0.5537628	0.558	0.513
6312	0.4195847	0.423	0.389
6314	0.9133010	0.920	0.846
6316	0.1890355	0.190	0.175
6318	0.5693305	0.574	0.528
63	3.0675647 [3.09]	→ [2.99]	$\xrightarrow[-8\%]{}$ 2.78

Total	6.13	6.00	5.92

kk ℄63 B

BA	1.44							
LS	—	81						
Uk	250	0.015	0.12	100				
Rk	2100	0.0111	.05	.26	TRAP	—	15	
Rk	14500	0.0111	.05	—	TRAP	25	20	

971
12.50

kk ℄63 C

BA	1.70							
LS	—	83						
Uk	200	0.015	0.12	100				
Rk	2000	0.0100	.05	.28	TRAP	—	15	
Rk	15250	0.0100	.05	—	TRAP	25	20	

1300
12.45

kk 63

BA	2.78							
LS	—	78						
Uk	400	.01	0.12	100				
Rk	3000	.0076	0.05	0.70	TRAP	10	25	
Rk	20750	.0076	0.05	—	TRAP	60	40	

975
13.25

Outlet CAP 3851 14.45

APPENDIX B-1

Subbasin Characteristics

APPENDIX C-1

HEC-1 Output

Basin Char

Basin # 6300 Area: 0.159

Sheet Flow

Top elev.: 1862 Cover: <10%
Bottom elev.: 1850 Fric. Factor: 0.8
length: 400
slope: 0.03

Shallow Conc. Flow:

Top elev.: 1850 Cover:
Bottom elev.: 1840 Fric. Factor:
length: 300
slope: 0.03

Channel Flow:

Top elev.: 1840 Cover:
Bottom elev.: 1785 Frict. Factor
length: 4200
slope: 0.013

Basin Char

Basin # 6304 Area: 0.408

Sheet Flow

Top elev.: 1850 Cover: <20%
Bottom elev.: 1848 Fric. Factor:
length: 100
slope: 0.02

Shallow Conc. Flow:

Top elev.: 1848 Cover:
Bottom elev.: 1840 Fric. Factor:
length: 300
Slope: 0.027

Channel Flow:

Top elev.: 1840 Cover:
Bottom elev.: 1754 Frict. Factor
length: 4800
Slope: 0.018

Basin Char

Basin # 630S Area: 0.170

Sheet Flow

Top elev.: 1803 Cover: < 20%
Bottom elev.: 1800 Fric. Factor: 0.08
length: 100
slope: 0.03

Shallow Conc. Flow:

Top elev.: 1800 Cover:
Bottom elev.: 1790 Fric. Factor:
length: 300
slope: $0.0\bar{3}$

Channel Flow:

Top elev.: 1790 Cover:
Bottom elev.: 1732 Frict. Factor
length: 5400
slope: 0.01

Basin Char

Basin # 6302 Area: 0.807 mi^2

Sheet Flow (Typical)

Top elev.: 1865
Bottom elev.: 1860
length: 200
slope: 0.025

Cover: Sparse (<10%)
Fric. Factor: 0.8

Shallow Conc. Flow:

Top elev.: 1860
Bottom elev.: 1850
length: 620
Slope: 0.016

Cover:
Fric. Factor: 0.07

Channel Flow:

Top elev.: 1850
Bottom elev.: 1754
length: 6600
Slope: 0.014

Cover: dense on banks
Frict. Factor

Basin Char.

Basin # 6307 Area: 1.081

Sheet Flow

Top elev.: 1835 Cover: <10%
Bottom elev.: 1830 Fric. Factor:
length: 200
slope: 0.025

Shallow Conc. Flow:

Top elev.: 1830 Cover:
Bottom elev.: 1760 Fric. Factor:
length: 3900
slope: 0.018

Channel Flow:

Top elev.: 1760 Cover:
Bottom elev.: 1675 Fric. Factor
length: 7600
slope: 0.011

Basin Char

Basin # 6306 Area: 0.389

Sheet Flow

Top elev.: 1803
Bottom elev.: 1800
length: 100
slope: 0.03

Cover: < 20%
Fric. Factor: 0.08

Shallow Conc. Flow:

Top elev.: 1800
Bottom elev.: 1710
length: 6000
Slope: 0.015

Cover:
Fric. Factor:

Channel Flow:

Top elev.: 1710
Bottom elev.: 1675
length: 3600
Slope: 0.001

Cover:
Fric. Factor

Basin Char.

Basin # 6308 Area: 0.326

Sheet Flow

Top elev.: 1682 Cover: < 10%
Bottom elev.: 1680 Fric. Factor:
length: 200
slope: 0.01

Shallow Conc. Flow:

Top elev.: 1680 Cover:
Bottom elev.: 1655 Fric. Factor:
length: 2000
slope: 0.0125

Channel Flow:

Top elev.: 1655 Cover:
Bottom elev.: 1601 Frict. Factor
length: 5200
slope: 0.010

Basin Char

Basin # 6310 Area: 0.558

Sheet Flow

Top elev.: 1703 Cover: < 10%
Bottom elev.: 1690 Fric. Factor:
length: 600
slope: 0.022

Shallow Conc. Flow:

Top elev.: 1690 Cover:
Bottom elev.: 1640 Fric. Factor:
length: 4800
slope: 0.01

Channel Flow:

Top elev.: 1640 Cover:
Bottom elev.: 1601 Frict. Factor
length: 3600
slope: 0.011

Basin Char.

Basin # 6312 Area : 0.423

Sheet Flow

Top elev. : 1640
Bottom elev. : 1630
length: 1600
slope : 0.006

Cover:
Fric. Factor:

Shallow Conc. Flow:

Top elev. : 1630
Bottom elev. : 1590
length : 3200
Slope : 0.0125

Cover:
Fric. Factor:

Channel Flow:

Top elev. : 1590
Bottom elev. : 1579
length: 1600
slope: 0.007

Cover:
Frict. Factor

Basin Char.

Basin # 6314 Area: 0.920

Sheet Flow

Top elev.: 1665
Bottom elev.: 1660
length: 220
slope: 0.23

Cover:
Fric. Factor:

Shallow Conc. Flow:

Top elev.: 1660
Bottom elev.: 1620
length: 4000
Slope: 0.01

Cover:
Fric. Factor:

Channel Flow:

Top elev.: 1620
Bottom elev.: 1548
length: 5200
Slope: 0.014

Cover:
Frict. Factor

Basin Char.

Basin # 6316 Area: 0.190

Sheet Flow

Top elev.: 1595
Bottom elev.: 1590
length: 500
slope: 0.01

Cover:
Fric. Factor:

Shallow Conc. Flow:

Top elev.: 1590
Bottom elev.: 1550
length: 2600
Slope: 0.015

Cover:
Fric. Factor:

Channel Flow:

Top elev.: 1550
Bottom elev.: 1548
length: 1000
Slope: 0.002

Cover:
Frict. Factor

Basin Char

Basin # 6318 Area: 0.574

Sheet Flow

Top elev.: 1598
Bottom elev.: 1595
length: 300
slope: 0.01

Cover:
Fric. Factor:

Shallow Conc. Flow:

Top elev.: 1595
Bottom elev.: 1548
length: 4400
slope: 0.01

Cover:
Fric. Factor:

Channel Flow:

Top elev.: 1548
Bottom elev.: 1540
length: 1600
slope: 0.005

Cover:
Frict. Factor

```
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*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)    *
*            FEBRUARY 1981               *
*          REVISED 14 JUN 85             *
*                                        *
*      RUN DATE: 09/13/1991              *
*          TIME: 11:22:13.55             *
*                                        *
******************************************
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*                                        *
*    U.S. ARMY CORPS OF ENGINEERS        *
*  THE HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET             *
*       DAVIS, CALIFORNIA 95616          *
*                                        *
*  (916) 551-1748 OR (FTS) 448-3285      *
*                                        *
******************************************
```


```
X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X       XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THE VERSION RELEASED 31JAN85 CONTAINS NEW OPTIONS ON RL AND BA RECORDS, AND ADDS THE HL RECORD. SEE JANUARY 1985 INPUT DESCRIPTION FOR NEW DEFINITIONS.

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:::::::::::::::::::::::::::::::::::::::::::::
:::              900 ORDINATES            :::
:::              Version  3.2c            :::
:::::::::::::::::::::::::::::::::::::::::::::
:::::::::::::::::::::::::::::::::::::::::::::
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```
============================
H A E S T A D   M E T H O D S
============================

37 Brookside Road  *  Waterbury, Connecticut  06708  *  (203) 755-1666
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LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1         ID        WTM100YR
  2         ID
  3         ID
  4         ID        THIS IS THE HEC-1 COMPUTER MODEL FOR THE WITTMANN AREA DRAINAGE MASTER
  5         ID        STUDY.  THIS STUDY IS PREPARED FOR THE FLOOD CONTROL DISTRICT OF
  6         ID        MARICOPA COUNTY BY THE WLB GROUP, INC.
  7         ID
  8         ID        THIS IS THE 100 YEAR MODEL FOR THE STUDY AREA AND INCLUDES STORAGE
  9         ID        ROUTING AND DIVERSIONS ALONG THE A.T. & S.F. RAILROAD, THE CAP CANAL,
 10         ID        AND THE BEARDSLEY CANAL.
 11         ID
 12         ID
 13         ID
 14         ID
 15         ID   !!!!!!!!!!THIS PROGRAM IS MODIFIED BY THE FLOOD CONTROL DISTRICT !!!!!!!!!!!!
 16         ID   !!!!!!!!!!OF MARICOPA COUNTY BY DEVIDING THE ORIGINAL WLB SUBBASINS!!!!!!!!!!
 17         ID   !!!!!!!!!!63,63B AND 63C INTO SMALLER SUBBASINS. AMM/1/22/90 !!!!!!!!!!!!!!!!
 18         ID
 19         ID
 20         ID  !!!!!!!!!!!!INCLUDES CHANGE IN ROUTING PARAMETERS WITHIN 63B,63C,63!!!!!!!!!!!
 21         ID
 22         ID
            *DIAGRAM
 23         IT       3 26JAN87    1200     640
 24         IN      15 26JAN87    1200
 25         IO       5
 26         JD    4.21    .001
 27         PC    .000    .002    .005    .008    .011    .014    .017    .020    .023    .026
 28         PC    .029    .032    .035    .038    .041    .044    .048    .052    .056    .060
 29         PC    .064    .068    .072    .076    .080    .085    .090    .095    .100    .105
 30         PC    .110    .115    .120    .126    .133    .140    .147    .155    .163    .172
 31         PC    .181    .191    .203    .218    .236    .257    .283    .387    .663    .707
 32         PC    .735    .758    .776    .791    .804    .815    .825    .834    .842    .849
 33         PC    .856    .863    .869    .875    .881    .887    .893    .898    .903    .908
 34         PC    .913    .918    .922    .926    .930    .934    .938    .942    .946    .950
 35         PC    .953    .956    .959    .962    .965    .968    .971    .974    .977    .980
 36         PC    .983    .986    .989    .992    .995    .998    1.00   1.000   1.000   1.000
 37         JD    4.17      10
 38         JD    4.00      50
 39         JD    3.93     100
 40         JD    3.82     350

 41         KK       1
 42         KM        RUNOFF FROM SUBWATERSHED 1.
 43         KM        UNIT HYDROGRAPHS HAVE BEEN COMPUTED FOR EACH SUBWATERSHED USING THE
 44         KM        CORPS OF ENGINEERS S-GRAPH COMPUTATIONS FOR UNIT HYDROGRAPHS.  THE
 45         KM        S-GRAPH PROGRAM HAS BEEN DEVELOPED FOR THE PHOENIX MOUNTAIN AND PHOENIX
 46         KM        VALLEY AREAS.  THIS SHOULD GIVE A MORE RELIABLE UNIT HYDROGRAPH FOR THE
 47         KM        HEC-1 PROGRAM TO UTILIZE WITHIN THE WITTMANN ADMS AREA.
 48         BA    .088
 49         UK     200   .0160     .11     100
```

```
          92          RK    8500   .0082     .05                        0      25
HEC-1 INPUT                                                PAGE  3

        LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


          93          KK     62J
          94          KM        RUNOFF FROM SUBWATERSHED 62J.
          95          BA     .88
          96          LS       0      77       0
          97          UK     250   .0150     .07     100
          98          RK    2600   .0089     .05     .05                0      15
          99          RK   12875   .0089     .05                        0      25

         100          KK    C62H
         101          KM        ADD HYDROGRAPHS AT C62H.
         102          HC       3

         103          KK    C62K
         104          KM        ROUTE FLOW FROM C62H TO C62K
         105          RM       1     .13      .2

         106          KK       2
         107          KM        RUNOFF FROM SUBWATERSHED 2.
         108          BA     .50
         109          LS              78
         110          UK     150   .0160     .11     100
         111          RK   10725   .0146     .05                        0      35

         112          KK      C2
         113          KM        STORAGE ROUTE THROUGH C2.  6'X4' BC ON GRAND AV.
         114          RS       1    STOR       0       0
         115          SV       0     .82    3.61
         116          SQ       0      72     468
         117          SE  1965.5    1968    1970

         118          KK    C62M
         119          KM        ROUTE FLOW FROM C2 TO C62M
         120          RM       1     .33      .2

         121          KK     62M
         122          KM        RUNOFF FROM SUBWATERSHED 62M
         123          BA     .24
         124          LS       0      71       0
         125          UK     200   .0150     .12     100
         126          RK     800   .0090     .05     .08                0      15
         127          RK    5000   .0090     .05                       10      15

         128          KK    C62M
         129          KM        ADD HYDROGRAPHS AT C62M
         130          HC       2

         131          KK       3
         132          KM        RUNOFF FROM SUBWATERSHED 3.
         133          BA     .55
```

```
          134          LS              81
          135          UK     100   .0160     .11     100
          136          RK    9250   .0132     .05            TRAP       0      25
:C-1 INPUT                                                PAGE  4

         LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


          137          KK      C3
          138          KM        STORAGE ROUTE THROUGH C3.  50"X30" CMPA ON GRAND AV.
          139          RS       1    STOR       0       0
          140          SV       0     .19    1.36    2.17
          141          SQ       0     5.5      56     335
          142          SE  1966.5    1967    1968  1968.5

          143          KK    C62K
          144          KM        ROUTE FLOW FROM C3 TO C62M.
          145          RM       1     .49      .2

          146          KK       4
          147          KM        RUNOFF FROM SUBWATERSHED 4.
          148          BA     .65
          149          LS              80
          150          UK     100   .0160     .11     100
          151          RK    2800   .0103     .05    .325               0      50
          152          RK   13000   .0103     .05                       0      30

          153          KK      C4
          154          KM        STORAGE ROUTE THROUGH C4.  48" CMP ON GRAND AV.
          155          RS       1    STOR       0       0
          156          SV       0     .19     .48     .95    1.69
          157          SQ       0      24      74     110     445
          158          SE    1962    1964  1965.5    1966    1967

          159          KK      C4
          160          KM        DIVERT FLOW AT C4.
          161          DT    DIV4
          162          DI       0      74     110     445
          163          DQ       0       0      36     350

          164          KK    C62K
          165          KM        ROUTE FLOW FROM C4 TO C62M.
          166          RM       1     .47      .2

          167          KK    C62M
          168          KM        ADD HYDROGRAPHS AT C62M.
          169          HC       3

          170          KK    C62K
          171          KM        ROUTE FLOW FROM C62M TO C62K
          172          RM       1    1.01      .2

          173          KK      C4
          174          KM        RETURN DIVERTED FLOW AT C4.
          175          DR    DIV4
```

```
176          KK      C5
177          KM        ROUTE DIVERTED FLOW FROM C4 TO C5.
178          RM       1     .21      .2
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

179          KK       5
180          KM        RUNOFF FROM SUBWATERSHED 5.
181          BA     .35
182          LS              78
183          UK     100   .0160     .11     100
184          RK    7625   .0126     .05                      25       8

185          KK      C5
186          KM        ADD HYDROGRAPHS AT C5.
187          HC       2

188          KK      C5
189          KM        STORAGE ROUTE THROUGH C5.  48" CMP AND 4'X4' BC ON R.R.
190          RS       1    STOR       0       0
191          SV       0     .25    1.01    2.91    6.52    8.88    11.5
192          SQ       0      34      92     148     168     267     533
193          SE    1940    1942    1944    1946    1947    1948    1949

194          KK      C5
195          KM        DIVERT FLOW AT C5.
196          DT    DIV5
197          DI       0     168     267     533
198          DQ       0       0      75     333

199          KK    C62K
200          KM        ROUTE FLOW FROM C5 TO C62K.
201          RM       1    1.45      .2

202          KK    C62K
203          KM        ADD HYDROGRAPHS AT C62K.
204          HC       3

205          KK      C5
206          KM        RETURN DIVERTED FLOW AT C5.
207          DR    DIV5

208          KK      C6
209          KM        ROUTE DIVERTED FLOW FROM C5 TO C6.
210          RM       1     .16      .2

211          KK       6
212          KM        RUNOFF FROM SUBWATERSHED 6.
213          BA     .03
214          LS              81
215          UK     100   [illegible]     [illegible]     100
216          RK    1400   [illegible]     [illegible]                0      20
```

```
 217          KK      C6
 218          KM        ADD HYDROGRAPHS AT C6.
 219          HC       2

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 220          KK      C6
 221          KM        STORAGE ROUTE THROUGH C6.  36" CMP ON R.R.
 222          RS       1    STOR       0       0
 223          SV       0     .06     .47    1.20    2.32
 224          SQ       0       4      12      95     392
 225          SE  1945.5    1946    1947    1948    1949

 226          KK      C6
 227          KM        DIVERT FLOW AT C6.
 228          DT    DIV6
 229          DI       0      12      95     392
 230          DQ       0       0      68     350

 231          KK    C62K
 232          KM        ROUTE FLOW FROM C6 TO C62K.
 233          RM       1    2.29      .2

 234          KK      C6
 235          KM        RETURN DIVERTED FLOW AT C6.
 236          DR    DIV6

 237          KK      C7
 238          KM        ROUTE DIVERTED FLOW AT C6 TO C7.
 239          RM       1     .08      .2

 240          KK       7
 241          KM        RUNOFF FROM SUBWATERSHED 7.
 242          BA     .04
 243          LS              81
 244          UK     150   .0160     .10     100
 245          RK    3125   .0138     .05                       0      25

 246          KK      C7
 247          KM        ADD HYDROGRAPHS AT C7.
 248          HC       2

 249          KK      C7
 250          KM        STORAGE ROUTE THROUGH C7.  48" ORCP ON R.R.
 251          RS       1    STOR       0       0
 252          SV       0     .63    3.73    6.87   10.75
 253          SQ       0      23      70      90     250
 254          SE    1940    1942    1944    1945    1946

 255          KK      C7
 256          KM        DIVERT FLOW AT C7.
 257          DT    DIV7
```

```
258          DI       0      90     250
259          DQ       0       0     135
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

260          KK    C62K
261          KM        ROUTE FLOW FROM C7 TO C62K.
262          RM       1    1.72      .2

263          KK     62K
264          KM        RUNOFF FROM SUBWATERSHED 62K
265          BA    1.40
266          LS       0      76       0
267          UK     400   .0150     .11     100
268          RK    3600   .0093     .05     .23              0      25
269          RK   17125   .0093     .05                     20      25

270          KK    C62K
271          KM        ADD HYDROGRAPHS AT C62K
272          HC       4

273          KK    C62G
274          KM        ROUTE FLOW FROM C62K TO C62G
275          RM       1     .45      .2

276          KK      C7
277          KM        RETURN DIVERTED FLOW AT C7.
278          DR    DIV7

279          KK      C8
280          KM        ROUTE DIVERTED FLOW AT C7 TO C8.
281          RM       1     .06      .2

282          KK       8
283          KM        RUNOFF FROM SUBWATERSHED 8
284          BA     .01
285          LS       0      81       0
286          UK     100   .0160     .10     100
287          RK    1000   .0100     .05                      0      30

288          KK      C8
289          KM        ADD HYDROGRAPHS AT C8.
290          HC       2

291          KK      C8
292          KM        STORAGE ROUTE THROUGH C8.  36" RCP ON R.R.
293          RS       1    STOR       0       0
294          SV       0     .15     .42     .84
295          SQ       0      11      20      71
296          SE  1938.5    1940    1941    1942

297          KK      C8
298          KM        DIVERT FLOW AT C8.
```

```
299          DT    DIV8
300          DI       0      20      71
301          DQ       0       0      29
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

302          KK    C62G
303          KM       ROUTE FLOW FROM C8 TO C62G
304          RM       1    3.78      .2

305          KK      C8
306          KM       RETURN DIVERTED FLOW AT C8.
307          DR    DIV8

308          KK      C9
309          KM       ROUTE DIVERTED FLOW AT C8 TO C9.
310          RM       1     .13      .2

311          KK       9
312          KM       RUNOFF FROM SUBWATERSHED 9
313          BA     .08
314          LS       0      81       0
315          UK     150   .0160     .10     100
316          RK    4750   .0114     .05                       0      25

317          KK      C9
318          KM       ADD HYDROGRAPHS AT C9.
319          HC       2

320          KK      C9
321          KM       STORAGE ROUTE THROUGH C9.  2'X4' BC ON R.R.
322          RS       1    STOR       0       0
323          SV       0     .24     .85
324          SQ       0      12     122
325          SE    1932    1933    1934

326          KK      C9
327          KM       DIVERT FLOW AT C9.
328          DT    DIV9
329          DI       0      12     122
330          DQ       0       0      90

331          KK    C62G
332          KM       ROUTE FLOW FROM C9 TO C62G
333          RM       1    3.11      .2

334          KK     62G
335          KM       RUNOFF FROM SUBWATERSHED 62G
336          BA    1.86
337          LS       0      78       0
338          UK     300   .0150     .12     100
339          RK    3500   .0105     .05     .27                 [illegible]      25
340          RK   18250   .0105     .05                         10      25
```

```
 341          KK    C62G
 342          KM        ADD HYDROGRAPHS AT C62G
 343          HC       4
..EC-1 INPUT                                    PAGE  9

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


 344          KK    C62E
 345          KM        ROUTE FLOW FROM C62G TO C62E
 346          RM       1     .33      .2

 347          KK     62E
 348          KM        RUNOFF FROM SUBWATERSHED 62E
 349          BA     .68
 350          LS       0      78       0
 351          UK     400    .015     .13     100
 352          RK    3000   .0101     .05     .23    TRAP              20
 353          RK   13625   .0101     .05            TRAP      10      15

 354          KK    C62E
 355          KM        ADD HYDROGRAPHS AT C62E
 356          HC       2

 357          KK     10A
 358          KM        RUNOFF FROM SUBWATERSHED 10A.
 359          BA    4.94
 360          LS       0      83       0
 361          UI       0     160     400     819    1346    1859    1920    2040    1795    1415
 362          UI    1167     991     837     663     560     464     434     408     334     259
 363          UI     246     157     125     120     106      68      66      63      61      59
 364          UI      46      30      29      29      28      24       0       0       0       0

 365          KK     C10
 366          KM        ROUTE FLOW FROM C10A TO C10.
 367          RM       1    1.36      .2

 368          KK      C9
 369          KM        RETURN DIVERTED FLOW AT C9.
 370          DR    DIV9

 371          KK     C10
 372          KM        ROUTE DIVERTED FLOW AT C9 TO C10.
 373          RM       1     .13      .2

 374          KK      10
 375          KM        RUNOFF FROM SUBWATERSHED 10.
 376          BA    3.93
 377          LS              79
 378          UK     300    .025     .10     100
 379          RK    5500   .0123     .05     .26    TRAP              12
 380          RK   31875   .0123     .05            TRAP      40      12

 381          KK     C10
```

```
382          KM        ADD HYDROGRAPHS AT C10.
383          HC       3
```



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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

384          KK     C10
385          KM        STORAGE ROUTE THROUGH C1.  IONA WASH HAS A 168' BRIDGE ON THE R.R.
386          KM        ASSUMED 12-14'X7' BC'S
387          RS       1    STOR       0       0
388          SV       0     .76     2.0    4.34    8.08   13.24   19.74
389          SQ       0    1568    3192    7392   10416   13440   14784
390          SE    1920    1922    1924    1926    1928    1930    1931

391          KK    C62E
392          KM        ROUTE FLOW FROM C10 TO C62E.
393          RM       1    1.28      .2

394          KK      11
395          KM        RUNOFF FROM SUBWATERSHED 11
396          BA     .20
397          LS       0      81       0
398          UK     200   .0190     .10     100
399          RK    1300   .0155     .05     .10    TRAP              15
400          RK    7750   .0155     .05            TRAP      15      10

401          KK      12
402          KM        RUNOFF FROM SUBWATERSHED 12
403          BA    .002
404          LS       0      81       0
405          UK     100   .0118     .10     100
406          RK     850   .0118     .05    .002    TRAP              20

407          KK     C11
408          KM        ADD HYDROGRAPHS AT C11.
409          HC       2

410          KK     C11
411          KM        STORAGE ROUTE THROUGH C11.  2'X1.5' BC AND 34"X36" CPA.
412          RS       1    STOR       0       0
413          SV       0     .57    4.63   16.79
414          SQ       0      35      75     115
415          SE    1913    1916    1920    1924

416          KK    C62E
417          KM        ROUTE FLOW FROM C11 TO C62E
418          RM       1    2.88      .2

419          KK      13
420          KM        RUNOFF FROM SUBWATERSHED 13
421          BA     .10
422          LS       0      81       0
[illegible]  [illegible]    150   .0250     .11     100
424          RK    2200   .0162     .05     .05    TRAP       0      30
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```
425          RK    5250   .0162     .05            TRAP      15      10
```



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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

426          KK     C13
427          KM        STORAGE ROUTE THROUGH C13.  2-42" RCP ON R.R.
428          RS       1    STOR       0       0
429          SV       0     .19    2.33    6.89    11.2
430          SQ       0      24     164     250     280
431          SE  1906.5    1908    1912    1916    1918

432          KK    C62E
433          KM        ROUTE FLOW FROM C13 TO C62E
434          RM       1    2.70      .2

435          KK    C62E
436          KM        ADD HYDROGRAPHS AT C62E.
437          HC       4

438          KK      14
439          KM        RUNOFF FROM SUBWATERSHED 14
440          BA     .01
441          LS       0      81       0
442          UK     100   .0106     .10     100
443          RK     850   .0106     .05     .01    TRAP              30

444          KK    C62E
445          KM        ROUTE FLOW FROM C14 TO C62E
446          RM       1    3.93      .2

447          KK      15
448          KM        RUNOFF FROM SUBWATERSHED 15
449          BA     .57
450          LS       0      81       0
451          UK     200   .0200     .10     100
452          RK    3500   .0159     .05     .11    TRAP              25
453          RK   13875   .0159     .05            TRAP      25       5

454          KK     C15
455          KM        STORAGE ROUTE THROUGH C15.  4'X4' CPA AND 2'X1.5' BC ON R.R.
456          RS       1    STOR       0       0
457          SV       0    2.78    9.36   17.15   18.85
458          SQ       0      92     188     295     500
459          SE    1898    1902    1906    1909  1909.5

460          KK     C15
461          KM        DIVERT FLOW AT C15.
462          DT   DIV15
463          DI       0     188     295     500
464          DQ       0       0      55     250

465          KK    C62E
466          KM        ROUTE FLOW FROM C15 TO C62E
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```
467          RM       1    2.00      .2

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

468          KK      16
469          KM         RUNOFF FROM SUBWATERSHED 16
470          BA     .62
471          LS       0      81       0
472          UK     200    .025     .10     100
473          RK    2600   .0166     .05     .09    TRAP              20
474          RK   13500   .0166     .05            TRAP      25      10

475          KK     C15
476          KM         RETURN DIVERT AT C15.
477          DR   DIV15

478          KK     C16
479          KM         ROUTE DIVERTED FLOW AT C15 TO C16.
480          RM       1     .10      .2

481          KK     C16
482          KM         ADD HYDROGRAPHS AT C16.
483          HC       2

484          KK     C16
485          KM         STORAGE ROUTE THROUGH C16.  24" RCP AND  36"X42" CPA ON R.R.
486          RS       1    STOR       0       0
487          SV       0     .56    3.22    8.05    9.51   11.06   14.36
488          SQ       0      42      82      90     125     225     720
489          SE  1892.5    1896    1900  1902.5    1903  1903.5  1904.5

490          KK     C16
491          KM         DIVERT FLOW AT C16
492          DT   DIV16
493          DI       0      90     125     225     720
494          DQ       0       0      25     115     600

495          KK    C62E
496          KM         ROUTE FLOW FROM C16 TO C62E
497          RM       1    2.29      .2

498          KK      17
499          KM         RUNOFF FROM SUBWATERSHED 17
500          BA     .05
501          LS       0      81       0
502          UK     200   .0250     .10     100
503          RK    2500   .0180     .05     .05    TRAP              20

504          KK     C16
505          KM         RETURN DIVERTED FLOW AT C16.
506          DR   DIV16

507          KK     C17
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508          KM        ROUTE DIVERTED FLOW AT C16 TO C17.
509          RM       1     .04      .2
```



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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

510          KK     C17
511          KM        ADD HYDROGRAPHS AT C17.
512          HC       2

513          KK     C17
514          KM        STORAGE ROUTE THROUGH C17.  42" ORCP ON R.R.
515          RS       1    STOR       0       0
516          SV       0     .28     1.7    2.26    2.92    4.30
517          SQ       0      42      85     104     166     480
518          SE    1895    1898  1900.5    1901  1901.5  1902.5

519          KK     C17
520          KM        DIVERT FLOW AT C17.
521          DT   DIV17
522          DI       0      85     104     166     480
523          DQ       0       0      14      68     375

524          KK    C62E
525          KM        ROUTE FLOW FROM C17 TO C62E
526          RM       1    2.34      .2

527          KK    C62E
528          KM        ADD HYDROGRAPHS AT C62E.
529          HC       5

530          KK      18
531          KM        RUNOFF FROM SUBWATERSHED 18
532          BA     .04
533          LS       0      81       0
534          UK     200   .0250     .10     100
535          RK    2100   .0143     .05     .04    TRAP              15

536          KK     C17
537          KM        RETURN DIVERT AT C17.
538          DR   DIV17

539          KK     C18
540          KM        ROUTE DIVERTED FLOW AT C17 TO C18.
541          RM       1     .08      .2

542          KK     C18
543          KM        ADD HYDROGRAPHS AT C18.
544          HC       2

545          KK     C18
546          KM        STORAGE ROUTE THROUGH C18.  2'X1.5' BC, 24" RCP, AND 36" RCP ON R.R.
547          RS       1    STOR       0       0
548          SV       0    [illegible]    2.31    5.99    7.27
```

```
549          SQ       0      19      87     140     347
550          SE  1888.5  1890.5  1891.5  1894.5  1895.5
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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

551          KK     C18
552          KM        DIVERT FLOW AT C18.
553          DT   DIV18
554          DI       0      19      87     140     347
555          DQ       0       0      52      70     267

556          KK    C62E
557          KM        ROUTE FLOW FROM C18 TO C62E
558          RM       1    2.71      .2

559          KK      19
560          KM        RUNOFF FROM SUBWATERSHED 19.
561          BA     .14
562          LS       0      81       0
563          UK     200   .0250     .10     100
564          RK    2500   .0144     .05     .07    TRAP              15
565          RK    7625   .0144     .05            TRAP              15

566          KK     C18
567          KM        RETURN DIVERT AT C18.
568          DR   DIV18

569          KK     C19
570          KM        ROUTE DIVERTED FLOW AT C18 TO C19.
571          RM       1    .024      .2

572          KK     C19
573          KM        ADD HYDROGRAPHS AT C19.
574          HC       2

575          KK     C19
576          KM        STORAGE ROUTE THROUGH C19.  36" RCP ON R.R.
577          RS       1    STOR       0       0
578          SV       0     .10     .57    1.67    8.22    9.31   10.42
579          SQ       0      11      42      65     100     226     410
580          SE  1884.5    1886    1888    1890  1894.5    1895  1895.5

581          KK     C19
582          KM        DIVERT FLOW AT C19.
583          DT   DIV19
584          DI       0     100     226     410
585          DQ       0       0     106     300

586          KK    C62E
587          KM        ROUTE FLOW FROM C19 TO C62E
588          RM       1    2.31      .2

589          KK      20
```

```
590          KM        RUNOFF FROM SUBWATERSHED 20
591          BA     .70
592          LS       0      80       0
593          UK     200   .0200     .10     100
594          RK    3500   .0159     .05     .10    TRAP              15
595          RK   16375   .0159     .05            TRAP      30      10
```



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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

596          KK     C19
597          KM        RETURN DIVERT AT C19.
598          DR   DIV19

599          KK     C20
600          KM        ROUTE DIVERTED FLOW AT C19 TO C20.
601          RM       1    .021      .2

602          KK     C20
603          KM        ADD HYDROGRAPHS AT C20.
604          HC       2

605          KK     C20
606          KM        STORAGE ROUTE THROUGH C20.  2-3'X3' BC'S.
607          RS       1    STOR       0       0
608          SV       0     .16    1.20    1.60    2.10    3.25    3.86
609          SQ       0      72     156     182     234     550     760
610          SE  1883.5    1886  1888.5    1889  1889.5    1891  1891.5

611          KK     C20
612          KM        DIVERT FLOW AT C20.
613          DT   DIV20
614          DI       0     156     182     234     550     760
615          DQ       0       0       8      36     340     540

616          KK    C62E
617          KM        ROUTE FLOW FROM C20 TO C62E
618          RM       1    1.81      .2

619          KK      21
620          KM        RUNOFF FROM SUBWATERSHED 21
621          BA     .02
622          LS       0      72       0
623          UK     100   .0142     .11     100
624          RK    1550   .0142     .05     .02    TRAP              30

625          KK     C20
626          KM        RETURN DIVERTED FLOW AT C20.
627          DR   DIV20

628          KK     C21
629          KM        ROUTE DIVERTED FLOW AT C20 TO C21.
630          RM       1     .06      .2
```

```
631          KK     C21
632          KM        ADD HYDROGRAPHS AT C21.
633          HC       2

634          KK     C21
635          KM        STORAGE ROUTE THROUGH C21.  2'X1.5' BC ON R.R.
636          RS       1    STOR       0       0
637          SV       0     .06     .38     .94    1.26
638          SQ       0       6      75     345     588
639          SE  1886.5  1887.5  1888.5  1889.5    1890
```



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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

640          KK     C21
641          KM        DIVERT FLOW AT C21.
642          DT   DIV21
643          DI       0       6      75     345     588
644          DQ       0       0      59     323     564

645          KK    C62E
646          KM        ROUTE FLOW FROM C21 TO C62E
647          RM       1    3.36      .2

648          KK    C62E
649          KM        ADD HYDROGRAPHS AT C62E.
650          HC       5

651          KK     62F
652          KM        RUNOFF FROM SUBWATERSHED 62F.
653          BA    2.18
654          LS              77
655          UK     400    .015     .12     100
656          RK    5500   .0095     .05    .545    TRAP              15
657          RK   22000   .0095     .05            TRAP      50      15

658          KK    C62E
659          KM        ADD HYDROGRAPHS AT C62E.
660          HC       2

661          KK    C62D
662          KM        ROUTE FLOW FROM C62E TO C62D
663          RM       1     .12      .2

664          KK     62D
665          KM        RUNOFF FROM SUBWATERSHED 62D
666          BA    1.66
667          LS       0      81       0
668          UK     350   .0110     .13     100
669          RK    2600    .007     .05     .06    TRAP              20
670          RK   19750    .007     .05            TRAP      20      15

671          KK    C62D
672          KM        ADD HYDROGRAPHS AT C62D
```

```
673          HC      2

674          KK    C62B
675          KM        ROUTE FLOW FROM C62D TO C62B
676          RM      1     .29      .2

677          KK     62B
678          KM        RUNOFF FROM SUBWATERSHED 62B
679          BA    0.49
680          LS      0      74       0
681          UK    200    .011     .12     100
682          RK   1500   .0072     .05    .245    TRAP              25
683          RK   9750   .0072     .05            TRAP      35      30
```



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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

684          KK     62C
685          KM        RUNOFF FROM SUBWATERSHED 62C
686          BA    0.40
687          LS      0      81       0
688          UK    200    .012     .12     100
689          RK   1200   .0076     .05     .20    TRAP              20
690          RK   9250   .0076     .05            TRAP      20      15

691          KK    C62B
692          KM        ADD HYDROGRAPHS AT C62B
693          HC      3

694          KK     C62
695          KM        ROUTE FLOW FROM C62B TO C62
696          RM      1    1.30      .2

697          KK     62A
698          KM        RUNOFF FROM SUBWATERSHED 62A
699          BA    1.58
700          LS      0      81       0
701          UK    300    .011     .11     100
702          RK   2000   .0069     .05    .395    TRAP              30
703          RK  18000   .0069     .05            TRAP      35      25

704          KK     C62
705          KM        ROUTE FLOW FROM C62A TO C62
706          RM      1    2.15      .2

707          KK      62
708          KM        RUNOFF FROM SUBWATERSHED 62
709          BA    5.09
710          LS      0      76       0
711          UK    600   .0065     .11     100
712          RK   4200   .0045     .05     .73    TRAP              45
713          RK  22000   .0045     .05                    5      40

714          KK     C62
```

```
715          KM        ADD HYDROGRAPHS AT C62
716          HC       3

717          KK     C62
718          KM        STORAGE ROUTE THROUGH C62.  47.3' WIDE OVERCHUTE ON CAP WEST OF GRAND.
719          RS       1    STOR       0       0
720          SV       0   16.23  133.39  466.23  584.29  733.69
721          SQ       0       0     662    2460    8081   34672
722          SE    1542  1545.2    1548    1552    1553    1554

723          KK    C83T
724          KM        ROUTE FLOW AT C62 TO C83T.
725          RM       1    1.25      .2
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


726          KK     83T
727          KM        RUNOFF FROM SUBWATERSHED 83T
728          BA    1.29
729          LS       0      75       0
730          UK     300    .008     .12     100
731          RK    2700   .0053     .06     .22    TRAP       0      35
732          RK   21000   .0053     .05            TRAP      20      30

733          KK    C83T
734          KM        ADD HYDROGRAPHS AT C83T.
735          HC       2

736          KK     C21
737          KM        RETURN DIVERT AT C21.
738          DR   DIV21

739          KK     C22
740          KM        ROUTE DIVERTED FLOW FROM C21 TO C22.
741          RM       1     .12      .2

742          KK      22
743          KM        RUNOFF FROM SUBWATERSHED 22.
744          BA     .26
745          LS              72
746          UK     400    .020     .10     100
747          RK    7200   .0132     .05     .26    TRAP              15

748          KK     C22
749          KM        ADD HYDROGRAPHS AT C22.
750          HC       2

751          KK     C22
752          KM        STORAGE ROUTE THROUGH C22.  2'X1' BC AND 36"X42" CPA ON R.R.
753          RS       1    STOR       0       0
754          SV       0     .10     .74    2.33    2.89    3.48
755          SQ       0      11      42      70     135     280     500
756          SE  1872.5    1874    1876    1878  1878.5    1879  1879.5
```

```
757          KK     C22
758          KM        DIVERT FLOW AT C22.
759          DT   DIV22
760          DI       0      70     135     280     500
761          DQ       0       0      60     200     415

762          KK    C63B
763          KM        ROUTE FLOW FROM C22 TO  63B2 (FCD)
764          RM       1    1.28      .2

765          KK     C22
766          KM        RETURN DIVERTED FLOW AT C22.
767          DR   DIV22
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


768          KK     C23
769          KM        ROUTE DIVERTED FLOW AT C22 TO C23.
770          RM       1    .033      .2

771          KK      23
772          KM        RUNOFF FROM  SUBWATERSHED 23.
773          BA    .006
774          LS              72
775          UK     100   .0143     .10     100
776          RK     700   .0143     .05    .006    TRAP       0      30

777          KK     C23
778          KM        ADD HYDROGRAPHS AT C23.
779          HC       2

780          KK     C23
781          KM        STORAGE ROUTE THROUGH C23.  2-10'X4' BC ON R.R.
782          RS       1    STOR       0       0
783          SV       0     .14     .51     .88
784          SQ       0     110     460     707
785          SE  1870.5    1872  1874.5  1875.5

786          KK     C23
787          KM        DIVERT FLOW AT C23.
788          DT   DIV23
789          DI       0     460     707
790          DQ       0       0      87

791          KK    C63B
792          KM        ROUTE FLOW FROM C23 TO  63B2 (FCD)
793          RM       1   0.847      .2

794          KK     C23
795          KM        RETURN DIVERT AT C23.
796          DR   DIV23
```

```
797          KK     C24
798          KM        ROUTE DIVERTED FLOW AT C23 TO C24.
799          RM       1     .11      .2

800          KK      24
801          KM        RUNOFF FROM SUBWATERSHED 24.
802          BA    .006
803          LS              72
804          UK      50   .0118     .10     100
805          RK     850   .0118     .05    .004    TRAP              30

806          KK     C24
807          KM        ADD HYDROGRAPHS AT C24.
808          HC       2
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

809          KK     C24
810          KM        STORAGE ROUTE THROUGH C24.  24" ORCP ON R.R.
811          RS       1    STOR       0       0
812          SV       0     .67     .94    1.24
813          SQ       0      17      44     150
814          SE  1870.5    1873  1873.5    1874

815          KK     C24
816          KM        DIVERT FLOW  AT C24.
817          DT   DIV24
818          DI       0      17      44     150
819          DQ       0       0      23     126

820          KK    C63B
821          KM        ROUTE FLOW FROM C24 TO  63B1 (FCD)
822          RM       1    1.15      .2

823          KK     C24
824          KM          RETURN DIVERT AT C24.
825          DR   DIV24

826          KK     C25
827          KM        ROUTE DIVERTED FLOW AT C24 TO C25.
828          RM       1     .11      .2

829          KK      25
830          KM        RUNOFF FROM SUBWATERSHED 25.
831          BA     .05
832          LS              72
833          UK     150   .0200     .10     100
834          RK    2450   .0143     .05     .05    TRAP              40

835          KK     C25
836          KM        ADD HYDROGRAPHS AT C25.
837          HC       2
```

```
838          KK     C25
839          KM        STORAGE ROUTE THROUGH C25.  48" ORCP ON R.R.
840          RS       1    STOR       0       0
841          SV       0     .38     .58      .8    1.04
842          SQ       0      23      52      99     171
843          SE  1860.5  1862.5    1863  1863.5    1864

844          KK     C25
845          KM        DIVERT FLOW AT C25.
846          DT   DIV25
847          DI       0      23      52      99     171
848          DQ       0       0      15      52     113
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


849          KK    C63B
850          KM        ROUTE FLOW FROM C25 TO  63B2 (FCD)
851          RM       1    1.38      .2

852          KK    6302
853          KM        RUNOFF FROM SUBWATERSHED 6302 (FCD)
854          BA    .750
855          LS              81
856          UK     220    .025     .14     100
857          RK     620    .016     .08     .30    TRAP              15
858          RK    6600    .014     .08            TRAP      25      20

859          KK   63B2A
860          KM        ADD HYDROGRAPHS AT C63B.
861          HC       5

862          KK     26B
863          KM        RUNOFF FROM SUBWATERSHED 26B.
864          BA   12.72
865          LS              86
866          UI       0     338     778    1523    2576    3691    4131    4635    4635    4085
867          UI    3258    2817    2330    2215    1580    1471    1204    1050     990     937
868          UI     858     602     574     536     295     283     272     259     157     151
869          UI     146     141     137     163      71      69      67      65      64      62
870          UI      33       0       0       0       0       0       0       0       0       0

871          KK    C26A
872          KM        ROUTE FLOW FROM C26B TO C26A.
873          RM       1     .46      .2

874          KK     26A
875          KM        RUNOFF FROM SUBWATERSHED 26A.
876          BA    2.26
877          LS              79
878          UI       0     110     333     715    1044    1207    1152     847     664     559
879          UI     399     325     268     246     [illegible]  [illegible]  121      75      70      52
880          UI      39      37      36      32      18      17      17      16       0       0
```

```
881          KK    C26A
882          KM       ADD HYDROGRAPHS AT C26A.
883          HC      2

884          KK     C26
885          KM       ROUTE FLOW FROM C26A TO C26.
886          RM      1     .67      .2

887          KK     C25
888          KM       RETURN DIVERTED FLOW AT C25.
889          DR   DIV25
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


890          KK     C26
891          KM       ROUTE DIVERTED FLOW AT C25 TO C26.
892          RM      1     .09      .2

893          KK      26
894          KM       RUNOFF FROM SUBWATERSHED 26.
895          BA    1.12
896          LS              74
897          UK     200   .0180     .10     100
898          RK    5500   .0135     .05     .22    TRAP              20
899          RK   19100   .0135     .05            TRAP      60      15

900          KK     C26
901          KM       ADD HYDROGRAPHS AT C26.
902          HC      3

903          KK     C26
904          KM       STORAGE ROUTE THROUGH C26.  TRIBLY WASH, 237' 17-SPAN 237' BRIDGE.
905          KM       ASSUME 24-10'X4' BC'S.
906          RS      1    STOR       0       0
907          SV      0     .51    1.65    2.63
908          SQ      0    2040    5520    7200
909          SE   1854    1856    1858    1859

910          KK    C63B
911          KM       ROUTE FLOW FROM C26 TO 63B1 (FCD)
912          RM      1     .24      .2

913          KK      27
914          KM       RUNOFF FROM SUBWATERSHED 27.
915          BA     .06
916          LS              72
917          UK     200    .020     .10     100
918          RK    2700   .0130     .05     .06    TRAP              30

919          KK     C27
920          KM       STORAGE ROUTE THROUGH C27.  3'X2.5' BC AND 36" ORCP ON R.R.
921          RS      1    STOR       0       0
922          SV      0     .14     .40     .58
```

```
923          SQ       0      11      24      91
924          SE  1846.5    1848    1849  1849.5

925          KK     C27
926          KM        DIVERT FLOW AT C27.
927          DT   DIV27
928          DI       0      24      91
929          DQ       0       0      56

930          KK    C63B
931          KM        ROUTE FLOW FROM C27 TO  63B1 (FCD)
932          RM       1    1.70      .2
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


933          KK    6300
934          KM        RUNOFF FROM SUBWATERSHED 6300 (FCD)
935          BA   0.148
936          LS              81
937          UK     400    0.03     .14     100
938          RK     300    0.03     .08      .3    TRAP              15
939          RK    4200   0.013     .08            TRAP      25      20

940          KK    63B1
941          HC       3

942          KK   R6300
943          KM        ROUTE 6300 TO 63B2
944          RK    2000   0.016     .08            TRAP      30      20

945          KK    63B2
946          KM        CONC. POINT 63B2
947          HC       2

948          KK   R63B2
949          KM        ROUTE 63B2 TO 63B3
950          RK    1600   0.014    0.05            TRAP      35      25

951          KK    6304
952          KM         RUNOFF FROM SUBWATERSHED 6304 (FCD)
953          BA   0.379
954          LS              81
955          UK     100    0.02    0.14     100
956          RK     300   0.027    0.08            TRAP              15
957          RK    4800   0.018    0.08            TRAP      25      20

958          KK    63B3
959          KM        CONC. POINT 63B3
960          HC       2

             KK   R63B3
962          KM        ROUTE 63B3 TO 63B
963          RK    1600   0.010    0.08            TRAP      30      20
```

```
964          KK    6305
965          KM        RUNOFF FROM SUBWATERSHED 6305 (FCD)
966          BA   0.158
967          LS             81
968          UK     100    0.03    0.14     100
969          RK     300    0.03    0.08            TRAP              15
970          RK    5400    0.01    0.08            TRAP      25      20

971          KK     63B
972          KM        CONC. POINT 63B
973          HC       2
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


974          KK    C63C
975          KM        ROUTE FLOW FROM C63B TO C63C.
976          RM       1     .32      .2

977          KK     C27
978          KM        RETURN DIVERTED FLOW AT C27.
979          DR   DIV27

980          KK     C28
981          KM        ROUTE DIVERTED FLOW AT C27 TO C28.
982          RM       1     .25      .2

983          KK      28
984          KM        RUNOFF FROM SUBWATERSHED 28.
985          BA     .24
986          LS             75
987          UK     200    .020     .10     100
988          RK    2000   .0147     .05     .08    TRAP              25
989          RK    7500   .0147     .05            TRAP      10       8

990          KK     C28
991          KM        ADD HYDROGRAPHS AT C28.
992          HC       2

993          KK     C28
994          KM        STORAGE ROUTE THROUGH C28.  36"X42" ORCP ON R.R.
995          RS       1    STOR       0       0
996          SV       0     .10     .55    1.18    2.14    3.46
997          SQ       0      11      43      60     172     453
998          SE  1820.5    1822    1824    1825    1826    1827

999          KK     C28
1000         KM        DIVERT FLOW AT C28.
1001         DT   DIV28
1002         DI       0      60     172     453
1003         DQ       0       0     102     373

1004         KK    C63C
```

```
1005          KM        ROUTE FLOW FROM C28 TO C63C.
1006          RM       1    4.04      .2

1007          KK     C28
1008          KM        RETURN DIVERTED FLOW AT C28.
1009          DR   DIV28

1010          KK     C29
1011          KM        ROUTE DIVERTED FLOW AT C28 TO C29.
1012          RM       1    .044      .2
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1013          KK      29
1014          KM        RUNOFF FROM SUBWATERSHED 29.
1015          BA     .01
1016          LS              81
1017          UK     100   .0300     .10     100
1018          RK    1150   .0174     .05     .01    TRAP              40

1019          KK     C29
1020          KM        ADD HYDROGRAPHS AT C29.
1021          HC       2

1022          KK     C29
1023          KM        STORAGE ROUTE THROUGH C29.  36" ORCP ON R.R.
1024          RS       1    STOR       0       0
1025          SV       0     .38     .95    1.62
1026          SQ       0      11      24     225
1027          SE  1820.5    1822    1823    1824

1028          KK     C29
1029          KM        DIVERT FLOW AT C29.
1030          DT   DIV29
1031          DI       0      24     225
1032          DQ       0       0     183

1033          KK    C63C
1034          KM        ROUTE FLOW FROM C29 TO C63C.
1035          RM       1    4.69      .2

1036          KK     C29
1037          KM        RETURN DIVERT AT C29.
1038          DR   DIV29

1039          KK     C30
1040          KM        ROUTE DIVERTED FLOW AT C29 TO C30.
1041          RM       1    .029      .2

1042          KK      30
10            [illegible]  RUNOFF FROM SUBWATERSHED 30.
1044          BA     .01
1045          LS              81
```

```
1046        UK     100   .0300     .10     100
1047        RK    1100   .0182     .05     .01    TRAP              15

1048        KK     C30
1049        KM        ADD HYDROGRAPHS AT C30.
1050        HC       2

1051        KK     C30
1052        KM        STORAGE ROUTE THROUGH C30.  48" ORCP ON R.R.
1053        RS       1    STOR       0       0
1054        SV       0     .51    1.78    2.51
1055        SQ       0      45     100     285
1056        SE    1823    1826  1828.5  1829.5
```



```
LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1057        KK     C30
1058        KM        DIVERT FLOW AT C30.
1059        DT   DIV30
1060        DI       0     100     285
1061        DQ       0       0     160

1062        KK    C63C
1063        KM        ROUTE FLOW FROM C30 TO C63C.
1064        RM       1    3.88      .2

1065        KK     C30
1066        KM        RETURN DIVERTED FLOW AT C30.
1067        DR   DIV30

1068        KK     C31
1069        KM        ROUTE DIVERTED FLOW AT C30 TO C31.
1070        RM       1    .053      .2

1071        KK      31
1072        KM        RUNOFF FROM SUBWATERSHED 31.
1073        BA     .63
1074        LS              77
1075        UK     200   .0300     .10     100
1076        RK    3000  . 0143     .05     .16    TRAP              10
1077        RK   17500   .0143     .05            TRAP      15      12

1078        KK     C31
1079        KM        ADD HYDROGRAPHS AT C31.
1080        HC       2

1081        KK     C31
1082        KM        STORAGE ROUTE THROUGH C31.  2-3'X4' BC ON R.R.
1083        RS       1    STOR       0       0
1084        SV       0     .24    1.45    6.53    9.87
1085        SQ       0      [illegible]     114     222     467
1086        SE  1804.5    1806    1808  1810.5  1811.5
```

```
1087        KK     C31
1088        KM        DIVERT FLOW AT C31.
1089        DT   DIV31
1090        DI       0     222     467
1091        DQ       0       0     215

1092        KK    C63C
1093        KM        ROUTE FLOW FROM C31 TO C63C.
1094        RM       1    2.74      .2

1095        KK    C63C
1096        KM        ADD HYDROGRAPHS AT C63C.
1097        HC       5
```



```
LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1098        KK     C31
1099        KM        RETURN DIVERT AT C31.
1100        DR   DIV31

1101        KK     C32
1102        KM        ROUTE DIVERTED FLOW AT C31 TO C32.
1103        RM       1    .103      .2

1104        KK      32
1105        KM        RUNOFF FROM SUBWATERSHED 32.
1106        BA     .05
1107        LS              81
1108        UK     200   .0200     .10     100
1109        RK    3000   .0133     .05     .05    TRAP              35

1110        KK     C32
1111        KM        ADD HYDROGRAPHS AT C32.
1112        HC       2

1113        KK     C32
1114        KM        STORAGE ROUTE THROUGH C32.  42" ORCP ON R.R.
1115        RS       1    STOR       0       0
1116        SV       0     .38     .89    1.65
1117        SQ       0      21      40     110
1118        SE    1798    1800    1801    1802

1119        KK     C32
1120        KM        DIVERT FLOW AT C32.
1121        DT   DIV32
1122        DI       0      40     110
1123        DQ       0       0      50

1124        KK    C63C
1125        KM        ROUTE FLOW FROM C32 TO C63C.
1126        RM       1    3.76      .2

1127        KK     C32
```

```
1128          KM        RETURN DIVERT AT C32.
1129          DR   DIV32

1130          KK     C33
1131          KM        ROUTE DIVERTED FLOW AT C32 TO C33.
1132          RM       1     .09      .2

1133          KK      33
1134          KM        RUNOFF FROM SUBWATERSHED 33.
1135          BA    .02
1136          LS              81
1137          UK     100   .0200     .10     100
1138          RK    1250   .0160     .05     .02    TRAP              30
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1139          KK     C33
1140          KM        ADD HYDROGRAPHS AT C33.
1141          HC       2

1142          KK     C33
1143          KM        STORAGE ROUTE THROUGH C33.  24" CP AND 24" ORCP ON R.R.
1144          RS       1    STOR       0       0
1145          SV       0     .83    1.39
1146          SQ       0      16     154
1147          SE  1787.5  1790.5  1791.5

1148          KK     C33
1149          KM        DIVERT FLOW AT C33.
1150          DT   DIV33
1151          DI       0      16     154
1152          DQ       0       0     128

1153          KK    C63C
1154          KM        ROUTE FLOW FROM C33 TO C63C.
1155          RM       1    4.85      .2

1156          KK    6306
1157          KM        RUNOFF FROM SUBWATERSHED 6306 (FCD)
1158          BA    .443
1159          LS              83
1160          UK     100     .03     .14     100
1161          RK    6000    .015     .08     .35    TRAP              15
1162          RK    3600    .015     .08            TRAP      30      20

1163          KK    6307
1164          KM        RUNOFF FROM SUBWATERSHED 6307 (FCD)
1165          BA   1.232
1166          LS              83
1167          UK     200    .025    0.14     100
1168          RK    3900   0.018                   TRAP              15
1169          RK    7600   0.011    0.08           TRAP      30      20
```

```
1170          KK     63C
1171          KM        CONC. POINT 63C
1172          HC       2

1173          KK    C63C
1174          KM        ADD HYDROGRAPHS AT C63C.
1175          HC       4

1176          KK     C63
1177          KM        ROUTE FLOW FROM C63C TO C631 (FCD)
1178          RM       1    0.50      .2
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1179          KK     63A
1180          KM        RUNOFF FROM SUBWATERSHED 63A.
1181          BA    2.67
1182          LS              78
1183          UK     350     .01     .12     100
1184          RK    5200    .010     .05     .24    TRAP              20
1185          RK   21250    .010     .05            TRAP      25      25

1186          KK    R63A
1187          KM        ROUTE 63A TO C631 (FCD)
1188          RM       1     0.3      .2

1189          KK    6308
1190          KM        RUNOFF FROM SUBWATERSHED 6308    (FCD)
1191          BA   0.300
1192          LS              78
1193          UK     200     .01     .14     100
1194          RK    2000   .0125     .08      .7    TRAP      10      25
1195          RK    5200    .010     .08            TRAP      60      40

1196          KK    6310
1197          KM        RUNOFF FROM SUBWATERSHED 6310   (FCD)
1198          BA   0.513
1199          LS              78
1200          UK     600   0.022    0.14     100
1201          RK    4800    0.01    0.08      .7    TRAP      10      25
1202          RK    3600   0.011    0.08            TRAP      60      40

1203          KK    C631
1204          KM        CONC. POINT C631
1205          HC       4

1206          KK   RC631
1207          KM        ROUTE C631 TO C632
1208          RK    2800   0.008    0.08            TRAP      60      40

1209          KK    6312
1210          KM        RUNOFF FROM SUBWATERSHED 6312   (FCD)
1211          BA    .389
```

```
1212          LS              78
1213          UK    1600   0.006    0.14     100
1214          RK    3200  0.0125    0.08     0.7    TRAP      10      25
1215          RK    1600   0.007    0.08            TRAP      60      40

1216          KK    C632
1217          KM        CONC. POINT C632
1218          HC       2

1219          KK   RC632
1220          KM        ROUTE C632 TO C633
1221          RK    4000   0.007    0.08            TRAP      60      40
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1222          KK    6314
1223          KM        RUNOFF FROM SUBWATERSHED 6314   (FCD)
1224          BA    .846
1225          LS              78
1226          UK     220   0.023    0.14     100
1227          RK    4000    0.01    0.08      .7    TRAP      10      25
1228          RK    5200   0.014    0.08            TRAP      60      40

1229          KK    C633
1230          KM        CONC. POINT C633
1231          HC       2

1232          KK   RC633
1233          KM        ROUTE C633 TO C63
1234          RK     600   0.017    0.08            TRAP      60      40

1235          KK    6316
1236          KM        RUNOFF FROM SBWATERSHED 6316  (FCD)
1237          BA    .175
1238          LS              78
1239          UK     500    0.01    0.14     100
1240          RK    2600   0.015    0.08      .7    TRAP      10      25
1241          RK    1000   0.002    0.08            TRAP      60      40

1242          KK    6318
1243          KM        RUNOFF FROM SUBWATERSHED 6318  (FCD)
1244          BA    .528
1245          LS              78
1246          UK     300    0.01    0.14     100
1247          RK    4400    0.01    0.08      .7    TRAP      10      25
1248          RK    1600   0.005    0.08            TRAP      60      40

1249          KK     C63
1250          KM        CONC. POINT C63
1251          HC       3

1252          KK     C63
1253          KM        STORAGE ROUTE THROUGH C63.  135.8' WIDE OVERCHUTE ON CAP WEST OF GRAND.
```

```
1254          RS       1    STOR       0       0
1255          SV       0    5.34   60.37   122.3
1256          SQ       0    2310    9506   20740
1257          SE  1544.9    1548  1553.4    1556

1258          KK    C83T
1259          KM        ROUTE FLOW FROM C63 TO C83T
1260          RM       1    1.69      .2

1261          KK     84T
1262          KM        RUNOFF FROM SUBWATERSHED 84T
1263          BA    1.81
1264          LS       0      74       0
1265          UK     400    .006     .13     100
1266          RK    6000   .0037     .06     .36    TRAP       0      35
1267          RK   21800   .0037     .05            TRAP      40      30
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1268          KK    C83T
1269          KM        ADD HYDROGRAPHS AT C83T
1270          HC       2

1271          KK    C83T
1272          KM        ADD HYDROGRAPHS AT C83T.
1273          HC       2
1274          ZZ
```

SCHEMATIC DIAGRAM OF STREAM NETWORK

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

  41          1
              V
              V
  51         C1
              V
              V
  57       C62L
              .
              .
  60          .         62L
              .           .
              .           .
  67       C62L............
              V
              V
  70       C62I
              .
              .
  73          .         62I
              .           .
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                .          .
 80          C62I............
                V
                V
 83          C62H
                .
                .
 86             .        62H
                .          .
                .          .
 93             .          .        62J
                .          .          .
                .          .          .
100          C62H......................
                V
                V
103          C62K
                .
                .
106             .          2
                .          V
                .          V
112             .         C2
                .          V
                .          V
118             .       C62M
                .          .
                .          .
121             .          .        62M
                .          .          .
                .          .          .
128             .       C62M............
                .          .
                .          .
131             .          .          3
                .          .          V
                .          .          V
137             .          .         C3
                .          .          V
                .          .          V
143             .          .       C62K
                .          .          .
                .          .          .
146             .          .          .          4
                .          .          .          V
                .          .          .          V
153             .          .          .         C4
                .          .          .          .
                .          .          .          .
161             .          .          .          .-------->   DIV4
159             .          .          .         C4
                .          .          .          V
                .          .          .          V
164             .          .          .        C62K
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            .          .          .          .
            .          .          .          .
167         .       C62M.......................
            .          V
            .          V
170         .       C62K
            .          .
            .          .
175         .          .          .<-------    DIV4
173         .          .         C4
            .          .          V
            .          .          V
176         .          .         C5
            .          .          .
            .          .          .
179         .          .          .          5
            .          .          .          .
            .          .          .          .
185         .          .         C5............
            .          .          V
            .          .          V
188         .          .         C5
            .          .          .
            .          .          .
196         .          .          .------->    DIV5
194         .          .         C5
            .          .          V
            .          .          V
199         .          .       C62K
            .          .          .
            .          .          .
202      C62K........................
            .
            .
207         .          .<-------    DIV5
205         .         C5
            .          V
            .          V
208         .         C6
            .          .
            .          .
211         .          .          6
            .          .          .
            .          .          .
217         .         C6............
            .          V
            .          V
220         .         C6
            .          .
            .          .
228         .          .------->    DIV6
226         .         C6
            .          V
            .          V
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231          .        C62K
             .          .
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236          .          .          .<-------    DIV6
234          .          .        C6
             .          .         V
             .          .         V
237          .          .        C7
             .          .         .
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240          .          .         .          7
             .          .         .          .
             .          .         .          .
246          .          .        C7............
             .          .         V
             .          .         V
249          .          .        C7
             .          .         .
             .          .         .
257          .          .         .------->    DIV7
255          .          .        C7
             .          .         V
             .          .         V
260          .          .      C62K
             .          .         .
             .          .         .
263          .          .         .        62K
             .          .         .          .
             .          .         .          .
270       C62K...................................
             V
             V
273       C62G
             .
             .
278          .          .<-------    DIV7
276          .        C7
             .         V
             .         V
279          .        C8
             .          .
             .          .
282          .          .          8
             .          .          .
             .          .          .
288          .        C8............
             .         V
             .         V
291          .        C8
             .          .
             .          .
300          .          .------->    DIV8
             .        C8
             .         V
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            .          V
302         .        C62G
            .          .
            .          .
307         .          .          .<-------    DIV8
305         .          .        C8
            .          .         V
            .          .         V
308         .          .        C9
            .          .         .
            .          .         .
311         .          .         .           9
            .          .         .           .
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317         .          .        C9............
            .          .         V
            .          .         V
320         .          .        C9
            .          .         .
            .          .         .
328         .          .         .------->    DIV9
326         .          .        C9
            .          .         V
            .          .         V
331         .          .      C62G
            .          .         .
            .          .         .
334         .          .         .         62G
            .          .         .           .
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341       C62G.................................
            V
            V
344       C62E
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            .
347         .        62E
            .          .
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354       C62E............
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357         .        10A
            .          V
            .          V
365         .        C10
            .          .
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370         .          .          .<-------    DIV9
368         .          .        C9
            .          .         V
            .          .         V
371         .          .        C10
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374             .          .          .          10
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381             .        C10.......................
                .          V
                .          V
384             .        C10
                .          V
                .          V
391             .        C62E
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                .          .
394             .          .        11
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401             .          .          .          12
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407             .          .       C11............
                .          .         V
                .          .         V
410             .          .       C11
                .          .         V
                .          .         V
416             .          .      C62E
                .          .         .
                .          .         .
419             .          .         .          13
                .          .         .           V
                .          .         .           V
426             .          .         .         C13
                .          .         .           V
                .          .         .           V
432             .          .         .        C62E
                .          .         .           .
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435          C62E...............................
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438             .         14
                .          V
                .          V
444             .        C62E
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447             .          .        15
                .          .         V
                .          .         V
454             .          .       C15
                .          .         .
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                .          .         .-------->   DIV15
460             .          .       C15
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                .         .         V
                .         .         V
465             .         .       C62E
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468             .         .         .        16
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477             .         .         .         .          .<-------   DIV15
475             .         .         .         .       C15
                .         .         .         .         V
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478             .         .         .         .       C16
                .         .         .         .         .
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481             .         .         .       C16............
                .         .         .         V
                .         .         .         V
484             .         .         .       C16
                .         .         .         .
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492             .         .         .         .------->   DIV16
490             .         .         .       C16
                .         .         .         V
                .         .         .         V
495             .         .         .      C62E
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498             .         .         .         .         17
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506             .         .         .         .          .          .<-------   DIV16
504             .         .         .         .          .        C16
                .         .         .         .          .          V
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507             .         .         .         .          .        C17
                .         .         .         .          .          .
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510             .         .         .         .       C17............
                .         .         .         .         V
                .         .         .         .         V
513             .         .         .         .       C17
                .         .         .         .         .
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521             .         .         .         .          .------->   DIV17
519             .         .         .         .       C17
                .         .         .         .         V
                .         .         .         .         V
524             .         .         .         .      C62E
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527         C62E.............................................
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530          .          18
             .           .
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538          .           .          .<-------   DIV17
536          .           .        C17
             .           .          V
             .           .          V
539          .           .        C18
             .           .          .
             .           .          .
542          .         C18............
             .           V
             .           V
545          .         C18
             .           .
             .           .
553          .           .------->   DIV18
551          .         C18
             .           V
             .           V
556          .        C62E
             .           .
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559          .           .          19
             .           .           .
             .           .           .
568          .           .           .           .<-------   DIV18
566          .           .           .         C18
             .           .           .           V
             .           .           .           V
569          .           .           .         C19
             .           .           .           .
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572          .           .        C19............
             .           .          V
             .           .          V
575          .           .        C19
             .           .           .
             .           .           .
583          .           .           .------->   DIV19
581          .           .        C19
             .           .          V
             .           .          V
586          .           .       C62E
             .           .           .
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589          .           .           .          20
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598          .           .           .           .           .<-------   DIV19
596          .           .           .           .         C19
             .           .           .           .           V
             .                       .           .           V
599          .           .           .           .         C20
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602             .          .          .        C20...........
                .          .          .          V
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605             .          .          .        C20
                .          .          .          .
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613             .          .          .          .-------->  DIV20
611             .          .          .        C20
                .          .          .          V
                .          .          .          V
616             .          .          .        C62E
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619             .          .          .          .         21
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627             .          .          .          .          .          .<-------  DIV20
625             .          .          .          .          .        C20
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                .          .          .          .          .          V
628             .          .          .          .          .        C21
                .          .          .          .          .          .
                .          .          .          .          .          .
631             .          .          .          .        C21............
                .          .          .          .          V
                .          .          .          .          V
634             .          .          .          .        C21
                .          .          .          .          .
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642             .          .          .          .          .-------->  DIV21
640             .          .          .          .        C21
                .          .          .          .          V
                .          .          .          .          V
645             .          .          .          .       C62E
                .          .          .          .          .
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648          C62E.............................................
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651             .        62F
                .          .
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658          C62E............
                V
                V
661          C62D
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664             .        62D
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                .          .
671          C62D....
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            V
            V
674       C62B
            .
            .
677         .         62B
            .           .
            .           .
684         .           .         62C
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            .           .           .
691       C62B.......................
            V
            V
694        C62
            .
            .
697         .         62A
            .           V
            .           V
704         .         C62
            .           .
            .           .
707         .           .         62
            .           .           .
            .           .           .
714        C62........................
            V
            V
717        C62
            V
            V
723       C83T
            .
            .
726         .         83T
            .           .
            .           .
733       C83T............
            .
            .
738         .           .<-------   DIV21
736         .         C21
            .           V
            .           V
739         .         C22
            .           .
            .           .
742         .           .         22
            .           .           .
            .           .           .
748         .         C22............
            .           V
            .           V
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751          .        C22
             .          .
             .          .
759          .          .-------->  DIV22
757          .        C22
             .          V
             .          V
762          .       C63B
             .          .
             .          .
767          .          .          .<-------  DIV22
765          .          .        C22
             .          .          V
             .          .          V
768          .          .        C23
             .          .          .
             .          .          .
771          .          .          .         23
             .          .          .          .
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777          .          .        C23............
             .          .          V
             .          .          V
780          .          .        C23
             .          .          .
             .          .          .
788          .          .          .-------->  DIV23
786          .          .        C23
             .          .          V
             .          .          V
791          .          .       C63B
             .          .          .
             .          .          .
796          .          .          .          .<-------  DIV23
794          .          .          .        C23
             .          .          .          V
             .          .          .          V
797          .          .          .        C24
             .          .          .          .
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800          .          .          .          .         24
             .          .          .          .          .
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806          .          .          .        C24............
             .          .          .          V
             .          .          .          V
809          .          .          .        C24
             .          .          .          .
             .          .          .          .
817          .          .          .          .-------->  DIV24
815          .          .          .        C24
             .          .          .          V
             .          .          .          V
820          .          .          .         3B
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                .         .         .         .
825             .         .         .         .          .<-------   DIV24
823             .         .         .         .        C24
                .         .         .         .          V
                .         .         .         .          V
826             .         .         .         .        C25
                .         .         .         .          .
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829             .         .         .         .          .          25
                .         .         .         .          .           .
                .         .         .         .          .           .
835             .         .         .         .        C25............
                .         .         .         .          V
                .         .         .         .          V
838             .         .         .         .        C25
                .         .         .         .          .
                .         .         .         .          .
846             .         .         .         .          .------->   DIV25
844             .         .         .         .        C25
                .         .         .         .          V
                .         .         .         .          V
849             .         .         .         .       C63B
                .         .         .         .          .
                .         .         .         .          .
852             .         .         .         .          .        6302
                .         .         .         .          .           .
                .         .         .         .          .           .
859             .     63B2A.............................................
                .         .
                .         .
862             .         .       26B
                .         .         V
                .         .         V
871             .         .      C26A
                .         .         .
                .         .         .
874             .         .         .       26A
                .         .         .         .
                .         .         .         .
881             .         .      C26A............
                .         .         V
                .         .         V
884             .         .       C26
                .         .         .
                .         .         .
889             .         .         .         .<-------   DIV25
887             .         .         .       C25
                .         .         .         V
                .         .         .         V
890             .         .         .       C26
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900             .         .       C26.......................
                .         .         V
                .         .         V
903             .         .       C26
                .         .         V
                .         .         V
910             .         .      C63B
                .         .         .
                .         .         .
913             .         .         .        27
                .         .         .         V
                .         .         .         V
919             .         .         .       C27
                .         .         .         .
                .         .         .         .
927             .         .         .         .-------->   DIV27
925             .         .         .       C27
                .         .         .         V
                .         .         .         V
930             .         .         .      C63B
                .         .         .         .
                .         .         .         .
933             .         .         .         .        6300
                .         .         .         .           .
                .         .         .         .           .
940             .         .      63B1.......................
                .         .         V
                .         .         V
942             .         .      R6300
                .         .         .
                .         .         .
945             .      63B2............
                .         V
                .         V
948             .      R63B2
                .         .
                .         .
951             .         .       6304
                .         .         .
                .         .         .
958             .      63B3............
                .         V
                .         V
961             .      R63B3
                .         .
                .         .
964             .         .       6305
                .         .         .
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971             .       63B............
                .         V
                .         V
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974          .        C63C
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979          .          .          .<-------   DIV27
977          .          .        C27
             .          .          V
             .          .          V
980          .          .        C28
             .          .          .
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983          .          .          .          28
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990          .          .        C28............
             .          .          V
             .          .          V
993          .          .        C28
             .          .          .
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1001         .          .          .------->   DIV28
999          .          .        C28
             .          .          V
             .          .          V
1004         .          .       C63C
             .          .          .
             .          .          .
1009         .          .          .           .<-------   DIV28
1007         .          .          .         C28
             .          .          .           V
             .          .          .           V
1010         .          .          .         C29
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1013         .          .          .           .          29
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1019         .          .          .         C29............
             .          .          .           V
             .          .          .           V
1022         .          .          .         C29
             .          .          .           .
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1030         .          .          .           .------->   DIV29
1028         .          .          .         C29
             .          .          .           V
             .          .          .           V
1033         .          .          .        C63C
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1038         .          .          .           .           .<-------   DIV29
1036         .          .          .           .         C29
             .          .          .           .           V
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1042            .         .         .         .         .         30
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1048            .         .         .         .       C30............
                .         .         .         .         V
                .         .         .         .         V
1051            .         .         .         .       C30
                .         .         .         .         .
                .         .         .         .         .
1059            .         .         .         .         .-------->  DIV30
1057            .         .         .         .       C30
                .         .         .         .         V
                .         .         .         .         V
1062            .         .         .         .      C63C
                .         .         .         .         .
                .         .         .         .         .
1067            .         .         .         .         .          .<-------   DIV30
1065            .         .         .         .         .        C30
                .         .         .         .         .          V
                .         .         .         .         .          V
1068            .         .         .         .         .        C31
                .         .         .         .         .          .
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1071            .         .         .         .         .          .         31
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1078            .         .         .         .         .        C31............
                .         .         .         .         .          V
                .         .         .         .         .          V
1081            .         .         .         .         .        C31
                .         .         .         .         .          .
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1089            .         .         .         .         .          .-------->  DIV31
1087            .         .         .         .         .        C31
                .         .         .         .         .          V
                .         .         .         .         .          V
1092            .         .         .         .         .       C63C
                .         .         .         .         .          .
                .         .         .         .         .          .
1095            .      C63C.........................................
                .         .
                .         .
1100            .         .         .<-------   DIV31
1098            .         .       C31
                .         .         V
                .         .         V
1101            .         .       C32
                .         .         .
                .         .         .
1104            .         .         .         32
                .         .         .          .
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1110        .         .        C32............
            .         .         V
            .         .         V
1113        .         .        C32
            .         .         .
            .         .         .
1121        .         .         .-------->  DIV32
1119        .         .        C32
            .         .         V
            .         .         V
1124        .         .       C63C
            .         .         .
            .         .         .
1129        .         .         .          .<-------  DIV32
1127        .         .         .       C32
            .         .         .         V
            .         .         .         V
1130        .         .         .       C33
            .         .         .         .
            .         .         .         .
1133        .         .         .         .         33
            .         .         .         .          .
            .         .         .         .          .
1139        .         .         .       C33............
            .         .         .         V
            .         .         .         V
1142        .         .         .       C33
            .         .         .         .
            .         .         .         .
1150        .         .         .         .-------->  DIV33
1148        .         .         .       C33
            .         .         .         V
            .         .         .         V
1153        .         .         .      C63C
            .         .         .         .
            .         .         .         .
1156        .         .         .         .       6306
            .         .         .         .          .
            .         .         .         .          .
1163        .         .         .         .          .       6307
            .         .         .         .          .          .
            .         .         .         .          .          .
1170        .         .         .         .       63C............
            .         .         .         .          .
            .         .         .         .          .
1173        .       C63C...................................
            .         V
            .         V
1176        .        C63
            .         .
            .         .
1179        .         .        63A
            .         .         V
            .         .         V
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1186  .   .   .     R63A
      .   .   .       .
      .   .   .       .
1189  .   .   .       .     6308
      .   .   .       .       .
      .   .   .       .       .
1196  .   .   .       .       .     6310
      .   .   .       .       .       .
      .   .   .       .       .       .
1203  .   C631.................................
      .     V
      .     V
1206  .   RC631
      .     .
      .     .
1209  .   .     6312
      .   .       .
      .   .       .
1216  .   C632............
      .     V
      .     V
1219  .   RC632
      .     .
      .     .
1222  .   .     6314
      .   .       .
      .   .       .
1229  .   C633............
      .     V
      .     V
1232  .   RC633
      .     .
      .     .
1235  .   .     6316
      .   .       .
      .   .       .
1242  .   .       .     6318
      .   .       .       .
      .   .       .       .
1249  .   C63......................
      .     V
      .     V
1252  .   C63
      .     V
      .     V
1258  .   C83T
      .     .
      .     .
1261  .   .     84T
      .   .       .
      .   .       .
1268  .   C83T............
      .     .
      .     .
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1271        C83T............

(***) RUNOFF ALSO COMPUTED AT THIS LOCATION ****************************************
*************************************
*                                   *                                       *                                   *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *                                    *   U.S. ARMY CORPS OF ENGINEERS    *
*            FEBRUARY 1981          *                                       * THE HYDROLOGIC ENGINEERING CENTER *
*          REVISED 14 JUN 85        *                                       *        609 SECOND STREET          *
*                                   *                                       *      DAVIS, CALIFORNIA 95616      *
*      RUN DATE: 09/13/1991         *                                       *                                   *
*          TIME: 11:23:36.65        *                                       * (916) 551-1748 OR (FTS) 448-3285  *
*                                   *                                       *                                   *
*************************************                                       *************************************
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WTM100YR

THIS IS THE HEC-1 COMPUTER MODEL FOR THE WITTMANN AREA DRAINAGE MASTER STUDY. THIS STUDY IS PREPARED FOR THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY BY THE WLB GROUP, INC.

THIS IS THE 100 YEAR MODEL FOR THE STUDY AREA AND INCLUDES STORAGE ROUTING AND DIVERSIONS ALONG THE A.T. & S.F. RAILROAD, THE CAP CANAL, AND THE BEARDSLEY CANAL.

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!!!!!!!!!!!THIS PROGRAM IS MODIFIED BY THE FLOOD CONTROL DISTRICT !!!!!!!!!!!!
!!!!!!!!!!!OF MARICOPA COUNTY BY DEVIDING THE ORIGINAL WLB SUBBASINS!!!!!!!!!!
!!!!!!!!!!!63,63B AND 63C INTO SMALLER SUBBASINS. AMM/1/22/90 !!!!!!!!!!!!!!!!

!!!!!!!!!!!!!INCLUDES CHANGE IN ROUTING PARAMETERS WITHIN 63B,63C,63!!!!!!!!!!!
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 25 IO          OUTPUT CONTROL VARIABLES
                      IPRNT          5  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                       NMIN          3  MINUTES IN COMPUTATION INTERVAL
                      IDATE     26JAN87  STARTING DATE
                      ITIME       1200  STARTING TIME
                         NQ        640  NUMBER OF HYDROGRAPH ORDINATES
                     NDDATE     27JAN87  ENDING DATE
                     NDTIME       1957  ENDING TIME

                       ATION INTERVAL    0.05 HOURS
```

TOTAL TIME BASE 31.95 HOURS

ENGLISH UNITS

DRAINAGE AREA	SQUARE MILES
PRECIPITATION DEPTH	INCHES
LENGTH, ELEVATION	FEET
FLOW	CUBIC FEET PER SECOND
STORAGE VOLUME	ACRE-FEET
SURFACE AREA	ACRES
TEMPERATURE	DEGREES FAHRENHEIT

26 JD INDEX STORM NO. 1

STRM	4.21	PRECIPITATION DEPTH
TRDA	0.00	TRANSPOSITION DRAINAGE AREA

27 PI PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
0.02	0.02	0.02	0.02	0.02	0.06	0.06	0.06	0.06	0.06
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

37 JD INDEX STORM NO. 2

STRM 4.17 PRECIPITATION DEPTH

TRDA 10.00 TRANSPOSITION DRAINAGE AREA

0 PI PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
0.02	0.02	0.02	0.02	0.02	0.06	0.06	0.06	0.06	0.06
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

38 JD INDEX STORM NO. 3

STRM 4.00 PRECIPITATION DEPTH

TRDA 50.00 TRANSPOSITION DRAINAGE AREA

0 PI PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
0.02	0.02	0.02	0.02	0.02	0.06	0.06	0.06	0.06	0.06
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

39 JD INDEX STORM NO. 4

STRM 3.93 PRECIPITATION DEPTH

TRDA 100.00 TRANSPOSITION DRAINAGE AREA

0 PI PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
0.02	0.02	0.02	0.02	0.02	0.06	0.06	0.06	0.06	0.06
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

40 JD INDEX STORM NO. 5

STRM 3.82 PRECIPITATION DEPTH

TRDA 350.00 TRANSPOSITION DRAINAGE AREA

0 PI PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
0.02	0.02	0.02	0.02	0.02	0.06	0.06	0.06	0.06	0.06
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 13440.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 345. TO 588.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 707.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 7200.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	1	230.	12.05	27.	9.	7.	0.09		
ROUTED TO	C1	200.	12.15	27.	9.	7.	0.09		
ROUTED TO	C62L	99.	12.45	27.	9.	7.	0.09		
HYDROGRAPH AT	62L	356.	12.25	62.	19.	14.	0.36		
2 COMBINED AT	C62L	439.	12.30	88.	29.	22.	0.45		
ROUTED TO	C62I	247.	12.80	88.	29.	22.	0.45		
HYDROGRAPH AT	62I	403.	12.55	98.	31.	23.	0.54		
2 COMBINED AT	C62I	624.	12.60	185.	59.	45.	0.99		
ROUTED TO	C62H	461.	13.10	184.	59.	45.	0.99		
HYDROGRAPH AT	62H	422.	12.50	103.	32.	24.	0.55		
HYDROGRAPH AT	62J	442.	12.75	139.	44.	33.	0.88		

3 COMBINED AT	C62H	1139.	12.75	423.	135.	102.	2.42
ROUTED TO	C62K	1120.	12.90	422.	135.	102.	2.42
HYDROGRAPH AT	2	332.	12.40	85.	27.	20.	0.50
ROUTED TO	C2	325.	12.50	85.	27.	20.	0.50
ROUTED TO	C62M	281.	12.80	85.	27.	20.	0.50
HYDROGRAPH AT	62M	150.	12.30	30.	9.	7.	0.24
2 COMBINED AT	C62M	353.	12.65	114.	36.	27.	0.74
HYDROGRAPH AT	3	303.	12.30	67.	21.	16.	0.35
ROUTED TO	C3	301.	12.30	67.	21.	16.	0.35
ROUTED TO	C62K	218.	12.70	66.	21.	16.	0.35
HYDROGRAPH AT	4	374.	12.65	116.	37.	27.	0.65
ROUTED TO	C4	374.	12.65	116.	37.	27.	0.65
DIVERSION TO	DIV4	283.	12.65	56.	14.	10.	0.65
HYDROGRAPH AT	C4	91.	12.65	60.	23.	17.	0.65
ROUTED TO	C62K	84.	13.25	59.	23.	17.	0.65
3 COMBINED AT	C62M	642.	12.70	239.	79.	60.	1.74
ROUTED TO	C62K	430.	13.55	232.	79.	59.	1.74
HYDROGRAPH AT	C4	283.	12.65	56.	14.	10.	0.65
ROUTED TO	C5	268.	12.85	56.	14.	10.	0.65
HYDROGRAPH AT	5	337.	12.15	59.	18.	14.	0.35
2 COMBINED AT	C5	375.	12.65	115.	32.	24.	0.35
ROUTED TO	C5	364.	12.85	115.	32.	24.	0.35
DIVERSION TO	DIV5	169.	12.85	24.	6.	4.	0.35
HYDROGRAPH AT	C5	195.	12.85	91.	26.	20.	0.35
ROUTED TO	C62K	158.	14.65	88.	26.	20.	0.35
3 COMBINED AT	C62K	1530.	13.05	735.	240.	181.	4.51
HYDROGRAPH AT	C5	169.	12.85	24.	6.	4.	0.35

ROUTED TO	C6	160.	13.05	24.	6.	4.	0.35
HYDROGRAPH AT	6	58.	12.05	6.	2.	1.	0.03
2 COMBINED AT	C6	168.	13.05	30.	8.	6.	0.03
ROUTED TO	C6	167.	13.10	30.	8.	6.	0.03
DIVERSION TO	DIV6	136.	13.10	20.	5.	4.	0.03
HYDROGRAPH AT	C6	31.	13.10	10.	3.	2.	0.03
ROUTED TO	C62K	16.	14.20	9.	3.	2.	0.03
HYDROGRAPH AT	C6	136.	13.10	20.	5.	4.	0.03
ROUTED TO	C7	134.	13.15	20.	5.	4.	0.03
HYDROGRAPH AT	7	57.	12.15	8.	2.	2.	0.04
2 COMBINED AT	C7	141.	13.15	28.	7.	6.	0.04
ROUTED TO	C7	77.	13.60	28.	7.	6.	0.04
DIVERSION TO	DIV7	0.	0.05	0.	0.	0.	0.04
HYDROGRAPH AT	C7	77.	13.60	28.	7.	6.	0.04
ROUTED TO	C62K	52.	14.65	26.	7.	6.	0.04
HYDROGRAPH AT	62K	532.	13.05	207.	68.	51.	1.40
4 COMBINED AT	C62K	2074.	13.05	975.	318.	239.	5.98
ROUTED TO	C62G	1871.	13.55	966.	318.	239.	5.98
HYDROGRAPH AT	C7	0.	0.05	0.	0.	0.	0.04
ROUTED TO	C8	0.	0.05	0.	0.	0.	0.04
HYDROGRAPH AT	8	19.	12.05	2.	1.	0.	0.01
2 COMBINED AT	C8	19.	12.05	2.	1.	0.	0.01
ROUTED TO	C8	12.	12.15	2.	1.	0.	0.01
DIVERSION TO	DIV8	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	C8	12.	12.15	2.	1.	0.	0.01
ROUTED TO	C62G	2.	13.45	2.	1.	0.	0.01
HYDROGRAPH AT	C8	0.	0.05	0.	0.	0.	0.01

ROUTED TO	C9	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	9	87.	12.20	15.	5.	4.	0.08
2 COMBINED AT	C9	87.	12.20	15.	5.	4.	0.08
ROUTED TO	C9	84.	12.25	15.	5.	4.	0.08
DIVERSION TO	DIV9	59.	12.25	6.	2.	1.	0.08
HYDROGRAPH AT	C9	25.	12.25	9.	3.	2.	0.08
ROUTED TO	C62G	9.	14.75	8.	3.	2.	0.08
HYDROGRAPH AT	62G	874.	12.85	303.	98.	73.	1.86
4 COMBINED AT	C62G	2471.	13.35	1265.	419.	315.	7.93
ROUTED TO	C62E	2363.	13.70	1258.	419.	315.	7.93
HYDROGRAPH AT	62E	345.	12.80	111.	36.	27.	0.68
2 COMBINED AT	C62E	2525.	13.65	1360.	454.	342.	8.61
HYDROGRAPH AT	10A	1788.	12.25	314.	97.	73.	4.94
ROUTED TO	C10	724.	12.95	312.	97.	73.	4.94
HYDROGRAPH AT	C9	59.	12.25	6.	2.	1.	0.08
ROUTED TO	C10	54.	12.40	6.	2.	1.	0.08
HYDROGRAPH AT	10	1635.	12.95	652.	213.	160.	3.93
3 COMBINED AT	C10	2371.	12.95	967.	311.	234.	8.87
ROUTED TO	C10	2372.	12.95	967.	311.	234.	8.87
ROUTED TO	C62E	1588.	14.00	930.	311.	233.	8.87
HYDROGRAPH AT	11	203.	12.25	38.	12.	9.	0.20
HYDROGRAPH AT	12	4.	12.05	0.	0.	0.	0.00
2 COMBINED AT	C11	204.	12.25	38.	12.	9.	0.20
ROUTED TO	C11	79.	12.75	38.	12.	9.	0.20
ROUTED TO	C62E	46.	15.25	33.	12.	9.	0.20
HYDROGRAPH AT	13	108.	12.25	19.	6.	4.	0.10
ROUTED TO	C13	87.	12.40	19.	6.	4.	0.10

ROUTED TO	C62E	26.	13.60	17.	6.	4.	0.10
4 COMBINED AT	C62E	4012.	13.80	2272.	764.	574.	17.78
HYDROGRAPH AT	14	20.	12.05	2.	1.	0.	0.01
ROUTED TO	C62E	2.	13.25	2.	1.	0.	0.01
HYDROGRAPH AT	15	435.	12.45	106.	33.	25.	0.57
ROUTED TO	C15	244.	12.95	105.	33.	25.	0.57
DIVERSION TO	DIV15	29.	12.95	4.	1.	1.	0.57
HYDROGRAPH AT	C15	215.	12.95	101.	32.	24.	0.57
ROUTED TO	C62E	138.	14.65	93.	32.	24.	0.57
HYDROGRAPH AT	16	479.	12.40	115.	36.	27.	0.62
HYDROGRAPH AT	C15	29.	12.95	4.	1.	1.	0.57
ROUTED TO	C16	28.	13.05	4.	1.	1.	0.57
2 COMBINED AT	C16	479.	12.40	119.	37.	28.	0.62
ROUTED TO	C16	409.	12.60	119.	37.	28.	0.62
DIVERSION TO	DIV16	295.	12.60	38.	9.	7.	0.62
HYDROGRAPH AT	C16	114.	12.60	81.	28.	21.	0.62
ROUTED TO	C62E	84.	16.45	70.	28.	21.	0.62
HYDROGRAPH AT	17	84.	12.10	10.	3.	2.	0.05
HYDROGRAPH AT	C16	295.	12.60	38.	9.	7.	0.62
ROUTED TO	C17	292.	12.65	38.	9.	7.	0.62
2 COMBINED AT	C17	309.	12.65	48.	12.	9.	0.05
ROUTED TO	C17	285.	12.75	48.	12.	9.	0.05
DIVERSION TO	DIV17	184.	12.75	15.	4.	3.	0.05
HYDROGRAPH AT	C17	101.	12.75	33.	9.	7.	0.05
ROUTED TO	C62E	62.	14.40	31.	9.	7.	0.05
5 COMBINED AT	C62E	4220.	13.85	2450.	829.	623.	19.03
HYDROGRAPH AT	18	70.	12.10	8.	2.	2.	0.04

HYDROGRAPH AT	C17	184.	12.75	15.	4.	3.	0.05
ROUTED TO	C18	170.	12.85	15.	4.	3.	0.05
2 COMBINED AT	C18	179.	12.85	23.	6.	5.	0.04
ROUTED TO	C18	106.	13.15	23.	6.	5.	0.04
DIVERSION TO	DIV18	58.	13.15	9.	2.	2.	0.04
HYDROGRAPH AT	C18	47.	13.15	14.	4.	3.	0.04
ROUTED TO	C62E	19.	14.35	12.	4.	3.	0.04
HYDROGRAPH AT	19	123.	12.35	26.	8.	6.	0.14
HYDROGRAPH AT	C18	58.	13.15	9.	2.	2.	0.04
ROUTED TO	C19	58.	13.15	9.	2.	2.	0.04
2 COMBINED AT	C19	132.	12.35	35.	10.	8.	0.14
ROUTED TO	C19	78.	13.55	35.	10.	8.	0.14
DIVERSION TO	DIV19	0.	0.05	0.	0.	0.	0.14
HYDROGRAPH AT	C19	78.	13.55	35.	10.	8.	0.14
ROUTED TO	C62E	56.	14.85	32.	10.	8.	0.14
HYDROGRAPH AT	20	422.	12.55	124.	39.	30.	0.70
HYDROGRAPH AT	C19	0.	0.05	0.	0.	0.	0.14
ROUTED TO	C20	0.	0.05	0.	0.	0.	0.14
2 COMBINED AT	C20	422.	12.55	124.	39.	30.	0.70
ROUTED TO	C20	420.	12.60	124.	39.	30.	0.70
DIVERSION TO	DIV20	215.	12.60	26.	6.	5.	0.70
HYDROGRAPH AT	C20	205.	12.60	99.	33.	25.	0.70
ROUTED TO	C62E	138.	14.25	91.	33.	25.	0.70
HYDROGRAPH AT	21	24.	12.10	3.	1.	1.	0.02
HYDROGRAPH AT	C20	215.	12.60	26.	6.	5.	0.70
ROUTED TO	C21	212.	12.65	26.	6.	5.	0.70
2 COMBINED AT	C21	220.	12.65	29.	7.	6.	0.02

ROUTED TO	C21	219.	12.70	29.	7.	6.	0.02
DIVERSION TO	DIV21	200.	12.70	24.	6.	4.	0.02
HYDROGRAPH AT	C21	19.	12.70	5.	1.	1.	0.02
ROUTED TO	C62E	7.	14.05	4.	1.	1.	0.02
5 COMBINED AT	C62E	4399.	13.85	2578.	874.	657.	19.93
HYDROGRAPH AT	62F	805.	13.10	330.	110.	82.	2.18
2 COMBINED AT	C62E	4928.	13.75	2871.	976.	733.	22.11
ROUTED TO	C62D	4911.	13.90	2868.	976.	733.	22.11
HYDROGRAPH AT	62D	790.	13.00	302.	98.	74.	1.66
2 COMBINED AT	C62D	5365.	13.80	3130.	1067.	802.	23.77
ROUTED TO	C62B	5250.	14.10	3116.	1067.	801.	23.77
HYDROGRAPH AT	62B	194.	12.75	67.	22.	16.	0.49
HYDROGRAPH AT	62C	296.	12.45	75.	23.	18.	0.40
3 COMBINED AT	C62B	5360.	14.10	3207.	1108.	833.	24.66
ROUTED TO	C62	4319.	15.35	3055.	1104.	829.	24.66
HYDROGRAPH AT	62A	744.	12.90	287.	92.	69.	1.58
ROUTED TO	C62	393.	14.25	260.	92.	69.	1.58
HYDROGRAPH AT	62	1412.	13.80	713.	247.	185.	5.09
3 COMBINED AT	C62	5326.	15.05	3846.	1414.	1062.	31.33
ROUTED TO	C62	5030.	15.75	3331.	1379.	1036.	31.33
ROUTED TO	C83T	4143.	17.15	3206.	1358.	1020.	31.33
HYDROGRAPH AT	83T	317.	13.85	174.	60.	45.	1.29
2 COMBINED AT	C83T	4216.	17.15	3270.	1413.	1061.	32.62
HYDROGRAPH AT	C21	200.	12.70	24.	6.	4.	0.02
ROUTED TO	C22	190.	12.80	24.	6.	4.	0.02
HYDROGRAPH AT	22	153.	12.40	34.	11.	8.	0.26
2 COMBINED AT	C22	276.	12.75	58.	17.	13.	0.26

ROUTED TO	C22	273.	12.80	58.	17.	13.	0.26
DIVERSION TO	DIV22	193.	12.80	22.	6.	4.	0.26
HYDROGRAPH AT	C22	80.	12.80	35.	11.	8.	0.26
ROUTED TO	C63B	61.	14.15	34.	11.	8.	0.26
HYDROGRAPH AT	C22	193.	12.80	22.	6.	4.	0.26
ROUTED TO	C23	192.	12.85	22.	6.	4.	0.26
HYDROGRAPH AT	23	8.	12.05	1.	0.	0.	0.01
2 COMBINED AT	C23	198.	12.85	24.	6.	5.	0.01
ROUTED TO	C23	198.	12.85	24.	6.	5.	0.01
DIVERSION TO	DIV23	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	C23	198.	12.85	24.	6.	5.	0.01
ROUTED TO	C63B	112.	13.35	24.	6.	5.	0.01
HYDROGRAPH AT	C23	0.	0.05	0.	0.	0.	0.01
ROUTED TO	C24	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	24	8.	12.05	1.	0.	0.	0.01
2 COMBINED AT	C24	8.	12.05	1.	0.	0.	0.01
ROUTED TO	C24	3.	12.20	1.	0.	0.	0.01
DIVERSION TO	DIV24	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	C24	3.	12.20	1.	0.	0.	0.01
ROUTED TO	C63B	2.	13.15	1.	0.	0.	0.01
HYDROGRAPH AT	C24	0.	0.05	0.	0.	0.	0.01
ROUTED TO	C25	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	25	51.	12.15	7.	2.	2.	0.05
2 COMBINED AT	C25	51.	12.15	7.	2.	2.	0.05
ROUTED TO	C25	41.	12.25	7.	2.	2.	0.05
DIVERSION TO	DIV25	9.	12.25	0.	0.	0.	0.05
HYDROGRAPH AT	C25	32.	12.25	6.	2.	2.	0.05

ROUTED TO	C63B	12.	13.10	6.	2.	2.	0.05
HYDROGRAPH AT	6302	772.	12.25	144.	45.	33.	0.75
5 COMBINED AT	63B2A	769.	12.25	205.	64.	48.	1.07
HYDROGRAPH AT	26B	4685.	12.25	882.	275.	206.	12.72
ROUTED TO	C26A	3254.	12.60	880.	275.	206.	12.72
HYDROGRAPH AT	26A	812.	12.20	125.	38.	29.	2.26
2 COMBINED AT	C26A	3550.	12.55	997.	311.	233.	14.98
ROUTED TO	C26	2629.	13.15	993.	311.	233.	14.98
HYDROGRAPH AT	C25	9.	12.25	0.	0.	0.	0.05
ROUTED TO	C26	8.	12.35	0.	0.	0.	0.05
HYDROGRAPH AT	26	363.	13.05	149.	50.	37.	1.12
3 COMBINED AT	C26	2970.	13.15	1135.	359.	269.	16.10
ROUTED TO	C26	2970.	13.15	1135.	359.	269.	16.10
ROUTED TO	C63B	2864.	13.40	1134.	359.	269.	16.10
HYDROGRAPH AT	27	53.	12.20	8.	2.	2.	0.06
ROUTED TO	C27	51.	12.25	8.	2.	2.	0.06
DIVERSION TO	DIV27	23.	12.25	1.	0.	0.	0.06
HYDROGRAPH AT	C27	28.	12.25	7.	2.	2.	0.06
ROUTED TO	C63B	12.	13.40	7.	2.	2.	0.06
HYDROGRAPH AT	6300	138.	12.30	28.	9.	7.	0.15
3 COMBINED AT	63B1	2904.	13.40	1165.	369.	277.	16.31
ROUTED TO	R6300	2901.	13.50	1167.	370.	278.	16.31
2 COMBINED AT	63B2	3184.	13.45	1358.	431.	323.	17.38
ROUTED TO	R63B2	3182.	13.50	1358.	430.	323.	17.38
HYDROGRAPH AT	6304	468.	12.15	72.	22.	17.	0.38
2 COMBINED AT	63B3	3234.	13.50	1424.	452.	339.	17.76
ROUTED TO	R63B3	3234.	13.55	1423.	452.	339.	17.76

HYDROGRAPH AT	6305	125.	12.35	30.	9.	7.	0.16
2 COMBINED AT	63B	3261.	13.55	1451.	461.	346.	17.92
ROUTED TO	C63C	3112.	13.85	1446.	461.	346.	17.92
HYDROGRAPH AT	C27	23.	12.25	1.	0.	0.	0.06
ROUTED TO	C28	12.	12.40	1.	0.	0.	0.06
HYDROGRAPH AT	28	176.	12.35	35.	11.	8.	0.24
2 COMBINED AT	C28	188.	12.35	36.	11.	8.	0.24
ROUTED TO	C28	168.	12.45	36.	11.	8.	0.24
DIVERSION TO	DIV28	99.	12.45	8.	2.	1.	0.24
HYDROGRAPH AT	C28	70.	12.45	28.	9.	7.	0.24
ROUTED TO	C63C	26.	14.80	21.	9.	7.	0.24
HYDROGRAPH AT	C28	99.	12.45	8.	2.	1.	0.24
ROUTED TO	C29	97.	12.50	8.	2.	1.	0.24
HYDROGRAPH AT	29	20.	12.05	2.	1.	0.	0.01
2 COMBINED AT	C29	102.	12.50	10.	3.	2.	0.01
ROUTED TO	C29	98.	12.55	10.	3.	2.	0.01
DIVERSION TO	DIV29	67.	12.55	4.	1.	1.	0.01
HYDROGRAPH AT	C29	31.	12.55	6.	2.	1.	0.01
ROUTED TO	C63C	7.	14.20	5.	2.	1.	0.01
HYDROGRAPH AT	C29	67.	12.55	4.	1.	1.	0.01
ROUTED TO	C30	67.	12.60	4.	1.	1.	0.01
HYDROGRAPH AT	30	20.	12.05	2.	1.	0.	0.01
2 COMBINED AT	C30	69.	12.60	6.	2.	1.	0.01
ROUTED TO	C30	50.	12.75	6.	2.	1.	0.01
DIVERSION TO	DIV30	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	C30	50.	12.75	6.	2.	1.	0.01
ROUTED TO	C63C	9.	13.45	5.	2.	1.	0.01

HYDROGRAPH AT	C30	0.	0.05	0.	0.	0.	0.01
ROUTED TO	C31	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	31	288.	12.85	99.	32.	24.	0.63
2 COMBINED AT	C31	288.	12.85	99.	32.	24.	0.63
ROUTED TO	C31	240.	13.20	99.	32.	24.	0.63
DIVERSION TO	DIV31	16.	13.20	1.	0.	0.	0.63
HYDROGRAPH AT	C31	224.	13.20	98.	32.	24.	0.63
ROUTED TO	C63C	122.	14.95	85.	32.	24.	0.63
5 COMBINED AT	C63C	3217.	13.85	1541.	502.	377.	18.81
HYDROGRAPH AT	C31	16.	13.20	1.	0.	0.	0.63
ROUTED TO	C32	13.	13.30	1.	0.	0.	0.63
HYDROGRAPH AT	32	66.	12.15	10.	3.	2.	0.05
2 COMBINED AT	C32	66.	12.15	10.	3.	2.	0.05
ROUTED TO	C32	46.	12.35	10.	3.	2.	0.05
DIVERSION TO	DIV32	4.	12.35	0.	0.	0.	0.05
HYDROGRAPH AT	C32	42.	12.35	10.	3.	2.	0.05
ROUTED TO	C63C	12.	14.10	8.	3.	2.	0.05
HYDROGRAPH AT	C32	4.	12.35	0.	0.	0.	0.05
ROUTED TO	C33	3.	12.40	0.	0.	0.	0.05
HYDROGRAPH AT	33	41.	12.05	4.	1.	1.	0.02
2 COMBINED AT	C33	41.	12.05	4.	1.	1.	0.02
ROUTED TO	C33	14.	12.20	4.	1.	1.	0.02
DIVERSION TO	DIV33	0.	0.05	0.	0.	0.	0.02
HYDROGRAPH AT	C33	14.	12.20	4.	1.	1.	0.02
ROUTED TO	C63C	4.	14.65	3.	1.	1.	0.02
HYDROGRAPH AT	6306	461.	12.35	89.	28.	21.	0.44
HYDROGRAPH AT	6307	1103.	12.45	248.	77.	58.	1.23

2 COMBINED AT	63C	1545.	12.40	336.	105.	79.	1.67
4 COMBINED AT	C63C	3488.	13.85	1858.	606.	455.	20.55
ROUTED TO	C63	3281.	14.30	1842.	606.	455.	20.55
HYDROGRAPH AT	63A	1088.	13.15	427.	141.	106.	2.67
ROUTED TO	R63A	1025.	13.40	425.	140.	106.	2.67
HYDROGRAPH AT	6308	176.	12.60	49.	16.	12.	0.30
HYDROGRAPH AT	6310	334.	12.65	85.	27.	20.	0.51
4 COMBINED AT	C631	4061.	14.10	2360.	778.	584.	24.04
ROUTED TO	RC631	4053.	14.20	2352.	777.	584.	24.04
HYDROGRAPH AT	6312	130.	13.35	59.	20.	15.	0.39
2 COMBINED AT	C632	4135.	14.20	2407.	796.	598.	24.42
ROUTED TO	RC632	4123.	14.40	2393.	794.	597.	24.42
HYDROGRAPH AT	6314	623.	12.50	141.	44.	33.	0.85
2 COMBINED AT	C633	4208.	14.35	2476.	836.	628.	25.27
ROUTED TO	RC633	4208.	14.40	2475.	835.	628.	25.27
HYDROGRAPH AT	6316	137.	12.45	29.	9.	7.	0.17
HYDROGRAPH AT	6318	420.	12.45	88.	28.	21.	0.53
3 COMBINED AT	C63	4277.	14.40	2556.	870.	653.	25.97
ROUTED TO	C63	4266.	14.45	2555.	870.	653.	25.97
ROUTED TO	C83T	3360.	15.80	2380.	864.	649.	25.97
HYDROGRAPH AT	84T	348.	14.75	218.	80.	60.	1.81
2 COMBINED AT	C83T	3611.	15.70	2568.	938.	705.	27.78
2 COMBINED AT	C83T	7012.	16.65	5364.	2282.	1714.	60.40

*** NORMAL END OF HEC-1 ***

3 COMBINED AT	C62H	1139.	12.75	423.	135.	102.	2.42
ROUTED TO	C62K	1120.	12.90	422.	135.	102.	2.42
HYDROGRAPH AT	2	332.	12.40	85.	27.	20.	0.50
ROUTED TO	C2	325.	12.50	85.	27.	20.	0.50
ROUTED TO	C62M	281.	12.80	85.	27.	20.	0.50
HYDROGRAPH AT	62M	150.	12.30	30.	9.	7.	0.24
2 COMBINED AT	C62M	353.	12.65	114.	36.	27.	0.74
HYDROGRAPH AT	3	303.	12.30	67.	21.	16.	0.35
ROUTED TO	C3	301.	12.30	67.	21.	16.	0.35
ROUTED TO	C62K	218.	12.70	66.	21.	16.	0.35
HYDROGRAPH AT	4	374.	12.65	116.	37.	27.	0.65
ROUTED TO	C4	374.	12.65	116.	37.	27.	0.65
DIVERSION TO	DIV4	283.	12.65	56.	14.	10.	0.65
HYDROGRAPH AT	C4	91.	12.65	60.	23.	17.	0.65
ROUTED TO	C62K	84.	13.25	59.	23.	17.	0.65
3 COMBINED AT	C62M	642.	12.70	239.	79.	60.	1.74
ROUTED TO	C62K	430.	13.55	232.	79.	59.	1.74
HYDROGRAPH AT	C4	283.	12.65	56.	14.	10.	0.65
ROUTED TO	C5	268.	12.85	56.	14.	10.	0.65
HYDROGRAPH AT	5	337.	12.15	59.	18.	14.	0.35
2 COMBINED AT	C5	375.	12.65	115.	32.	24.	0.35
ROUTED TO	C5	364.	12.85	115.	32.	24.	0.35
DIVERSION TO	DIV5	169.	12.85	24.	6.	4.	0.35
HYDROGRAPH AT	C5	195.	12.85	91.	26.	20.	0.35
ROUTED TO	C62K	158.	14.65	88.	26.	20.	0.35
3 COMBINED AT	C62K	1530.	13.05	735.	240.	181.	4.51
HYDROGRAPH AT	C5	169.	12.85	24.	6.	4.	0.35

ROUTED TO	C6	160.	13.05	24.	6.	4.	0.35
HYDROGRAPH AT	6	58.	12.05	6.	2.	1.	0.03
2 COMBINED AT	C6	168.	13.05	30.	8.	6.	0.03
ROUTED TO	C6	167.	13.10	30.	8.	6.	0.03
DIVERSION TO	DIV6	136.	13.10	20.	5.	4.	0.03
HYDROGRAPH AT	C6	31.	13.10	10.	3.	2.	0.03
ROUTED TO	C62K	16.	14.20	9.	3.	2.	0.03
HYDROGRAPH AT	C6	136.	13.10	20.	5.	4.	0.03
ROUTED TO	C7	134.	13.15	20.	5.	4.	0.03
HYDROGRAPH AT	7	57.	12.15	8.	2.	2.	0.04
2 COMBINED AT	C7	141.	13.15	28.	7.	6.	0.04
ROUTED TO	C7	77.	13.60	28.	7.	6.	0.04
DIVERSION TO	DIV7	0.	0.05	0.	0.	0.	0.04
HYDROGRAPH AT	C7	77.	13.60	28.	7.	6.	0.04
ROUTED TO	C62K	52.	14.65	26.	7.	6.	0.04
HYDROGRAPH AT	62K	532.	13.05	207.	68.	51.	1.40
4 COMBINED AT	C62K	2074.	13.05	975.	318.	239.	5.98
ROUTED TO	C62G	1871.	13.55	966.	318.	239.	5.98
HYDROGRAPH AT	C7	0.	0.05	0.	0.	0.	0.04
ROUTED TO	C8	0.	0.05	0.	0.	0.	0.04
HYDROGRAPH AT	8	19.	12.05	2.	1.	0.	0.01
2 COMBINED AT	C8	19.	12.05	2.	1.	0.	0.01
ROUTED TO	C8	12.	12.15	2.	1.	0.	0.01
DIVERSION TO	DIV8	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	C8	12.	12.15	2.	1.	0.	0.01
ROUTED TO	C62G	2.	13.45	2.	1.	0.	0.01
HYDROGRAPH AT	C8	0.	0.05	0.	0.	0.	0.01

ROUTED TO	C9	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	9	87.	12.20	15.	5.	4.	0.08
2 COMBINED AT	C9	87.	12.20	15.	5.	4.	0.08
ROUTED TO	C9	84.	12.25	15.	5.	4.	0.08
DIVERSION TO	DIV9	59.	12.25	6.	2.	1.	0.08
HYDROGRAPH AT	C9	25.	12.25	9.	3.	2.	0.08
ROUTED TO	C62G	9.	14.75	8.	3.	2.	0.08
HYDROGRAPH AT	62G	874.	12.85	303.	98.	73.	1.86
4 COMBINED AT	C62G	2471.	13.35	1265.	419.	315.	7.93
ROUTED TO	C62E	2363.	13.70	1258.	419.	315.	7.93
HYDROGRAPH AT	62E	345.	12.80	111.	36.	27.	0.68
2 COMBINED AT	C62E	2525.	13.65	1360.	454.	342.	8.61
HYDROGRAPH AT	10A	1788.	12.25	314.	97.	73.	4.94
ROUTED TO	C10	724.	12.95	312.	97.	73.	4.94
HYDROGRAPH AT	C9	59.	12.25	6.	2.	1.	0.08
ROUTED TO	C10	54.	12.40	6.	2.	1.	0.08
HYDROGRAPH AT	10	1635.	12.95	652.	213.	160.	3.93
3 COMBINED AT	C10	2371.	12.95	967.	311.	234.	8.87
ROUTED TO	C10	2372.	12.95	967.	311.	234.	8.87
ROUTED TO	C62E	1588.	14.00	930.	311.	233.	8.87
HYDROGRAPH AT	11	203.	12.25	38.	12.	9.	0.20
HYDROGRAPH AT	12	4.	12.05	0.	0.	0.	0.00
2 COMBINED AT	C11	204.	12.25	38.	12.	9.	0.20
ROUTED TO	C11	79.	12.75	38.	12.	9.	0.20
ROUTED TO	C62E	46.	15.25	33.	12.	9.	0.20
HYDROGRAPH AT	13	108.	12.25	19.	6.	4.	0.10
ROUTED TO	C13	87.	12.40	19.	6.	4.	0.10

ROUTED TO	C62E	26.	13.60	17.	6.	4.	0.10
4 COMBINED AT	C62E	4012.	13.80	2272.	764.	574.	17.78
HYDROGRAPH AT	14	20.	12.05	2.	1.	0.	0.01
ROUTED TO	C62E	2.	13.25	2.	1.	0.	0.01
HYDROGRAPH AT	15	435.	12.45	106.	33.	25.	0.57
ROUTED TO	C15	244.	12.95	105.	33.	25.	0.57
DIVERSION TO	DIV15	29.	12.95	4.	1.	1.	0.57
HYDROGRAPH AT	C15	215.	12.95	101.	32.	24.	0.57
ROUTED TO	C62E	138.	14.65	93.	32.	24.	0.57
HYDROGRAPH AT	16	479.	12.40	115.	36.	27.	0.62
HYDROGRAPH AT	C15	29.	12.95	4.	1.	1.	0.57
ROUTED TO	C16	28.	13.05	4.	1.	1.	0.57
2 COMBINED AT	C16	479.	12.40	119.	37.	28.	0.62
ROUTED TO	C16	409.	12.60	119.	37.	28.	0.62
DIVERSION TO	DIV16	295.	12.60	38.	9.	7.	0.62
HYDROGRAPH AT	C16	114.	12.60	81.	28.	21.	0.62
ROUTED TO	C62E	84.	16.45	70.	28.	21.	0.62
HYDROGRAPH AT	17	84.	12.10	10.	3.	2.	0.05
HYDROGRAPH AT	C16	295.	12.60	38.	9.	7.	0.62
ROUTED TO	C17	292.	12.65	38.	9.	7.	0.62
2 COMBINED AT	C17	309.	12.65	48.	12.	9.	0.05
ROUTED TO	C17	285.	12.75	48.	12.	9.	0.05
DIVERSION TO	DIV17	184.	12.75	15.	4.	3.	0.05
HYDROGRAPH AT	C17	101.	12.75	33.	9.	7.	0.05
ROUTED TO	C62E	62.	14.40	31.	9.	7.	0.05
5 COMBINED AT	C62E	4220.	13.85	2450.	829.	623.	19.03
HYDROGRAPH AT	18	70.	12.10	8.	2.	2.	0.04

HYDROGRAPH AT	C17	184.	12.75	15.	4.	3.	0.05
ROUTED TO	C18	170.	12.85	15.	4.	3.	0.05
2 COMBINED AT	C18	179.	12.85	23.	6.	5.	0.04
ROUTED TO	C18	106.	13.15	23.	6.	5.	0.04
DIVERSION TO	DIV18	58.	13.15	9.	2.	2.	0.04
HYDROGRAPH AT	C18	47.	13.15	14.	4.	3.	0.04
ROUTED TO	C62E	19.	14.35	12.	4.	3.	0.04
HYDROGRAPH AT	19	123.	12.35	26.	8.	6.	0.14
HYDROGRAPH AT	C18	58.	13.15	9.	2.	2.	0.04
ROUTED TO	C19	58.	13.15	9.	2.	2.	0.04
2 COMBINED AT	C19	132.	12.35	35.	10.	8.	0.14
ROUTED TO	C19	78.	13.55	35.	10.	8.	0.14
DIVERSION TO	DIV19	0.	0.05	0.	0.	0.	0.14
HYDROGRAPH AT	C19	78.	13.55	35.	10.	8.	0.14
ROUTED TO	C62E	56.	14.85	32.	10.	8.	0.14
HYDROGRAPH AT	20	422.	12.55	124.	39.	30.	0.70
HYDROGRAPH AT	C19	0.	0.05	0.	0.	0.	0.14
ROUTED TO	C20	0.	0.05	0.	0.	0.	0.14
2 COMBINED AT	C20	422.	12.55	124.	39.	30.	0.70
ROUTED TO	C20	420.	12.60	124.	39.	30.	0.70
DIVERSION TO	DIV20	215.	12.60	26.	6.	5.	0.70
HYDROGRAPH AT	C20	205.	12.60	99.	33.	25.	0.70
ROUTED TO	C62E	138.	14.25	91.	33.	25.	0.70
HYDROGRAPH AT	21	24.	12.10	3.	1.	1.	0.02
HYDROGRAPH AT	C20	215.	12.60	26.	6.	5.	0.70
ROUTED TO	C21	212.	12.65	26.	6.	5.	0.70
2 COMBINED AT	C21	220.	12.65	29.	7.	6.	0.02

ROUTED TO	C21	219.	12.70	29.	7.	6.	0.02
DIVERSION TO	DIV21	200.	12.70	24.	6.	4.	0.02
HYDROGRAPH AT	C21	19.	12.70	5.	1.	1.	0.02
ROUTED TO	C62E	7.	14.05	4.	1.	1.	0.02
5 COMBINED AT	C62E	4399.	13.85	2578.	874.	657.	19.93
HYDROGRAPH AT	62F	805.	13.10	330.	110.	82.	2.18
2 COMBINED AT	C62E	4928.	13.75	2871.	976.	733.	22.11
ROUTED TO	C62D	4911.	13.90	2868.	976.	733.	22.11
HYDROGRAPH AT	62D	790.	13.00	302.	98.	74.	1.66
2 COMBINED AT	C62D	5365.	13.80	3130.	1067.	802.	23.77
ROUTED TO	C62B	5250.	14.10	3116.	1067.	801.	23.77
HYDROGRAPH AT	62B	194.	12.75	67.	22.	16.	0.49
HYDROGRAPH AT	62C	296.	12.45	75.	23.	18.	0.40
3 COMBINED AT	C62B	5360.	14.10	3207.	1108.	833.	24.66
ROUTED TO	C62	4319.	15.35	3055.	1104.	829.	24.66
HYDROGRAPH AT	62A	744.	12.90	287.	92.	69.	1.58
ROUTED TO	C62	393.	14.25	260.	92.	69.	1.58
HYDROGRAPH AT	62	1412.	13.80	713.	247.	185.	5.09
3 COMBINED AT	C62	5326.	15.05	3846.	1414.	1062.	31.33
ROUTED TO	C62	5030.	15.75	3331.	1379.	1036.	31.33
ROUTED TO	C83T	4143.	17.15	3206.	1358.	1020.	31.33
HYDROGRAPH AT	83T	317.	13.85	174.	60.	45.	1.29
2 COMBINED AT	C83T	4216.	17.15	3270.	1413.	1061.	32.62
HYDROGRAPH AT	C21	200.	12.70	24.	6.	4.	0.02
ROUTED TO	C22	190.	12.80	24.	6.	4.	0.02
HYDROGRAPH AT	22	153.	12.40	34.	11.	8.	0.26
2 COMBINED AT	C22	276.	12.75	58.	17.	13.	0.26

ROUTED TO	C22	273.	12.80	58.	17.	13.	0.26
DIVERSION TO	DIV22	193.	12.80	22.	6.	4.	0.26
HYDROGRAPH AT	C22	80.	12.80	35.	11.	8.	0.26
ROUTED TO	C63B	61.	14.15	34.	11.	8.	0.26
HYDROGRAPH AT	C22	193.	12.80	22.	6.	4.	0.26
ROUTED TO	C23	192.	12.85	22.	6.	4.	0.26
HYDROGRAPH AT	23	8.	12.05	1.	0.	0.	0.01
2 COMBINED AT	C23	198.	12.85	24.	6.	5.	0.01
ROUTED TO	C23	198.	12.85	24.	6.	5.	0.01
DIVERSION TO	DIV23	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	C23	198.	12.85	24.	6.	5.	0.01
ROUTED TO	C63B	112.	13.35	24.	6.	5.	0.01
HYDROGRAPH AT	C23	0.	0.05	0.	0.	0.	0.01
ROUTED TO	C24	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	24	8.	12.05	1.	0.	0.	0.01
2 COMBINED AT	C24	8.	12.05	1.	0.	0.	0.01
ROUTED TO	C24	3.	12.20	1.	0.	0.	0.01
DIVERSION TO	DIV24	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	C24	3.	12.20	1.	0.	0.	0.01
ROUTED TO	C63B	2.	13.15	1.	0.	0.	0.01
HYDROGRAPH AT	C24	0.	0.05	0.	0.	0.	0.01
ROUTED TO	C25	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	25	51.	12.15	7.	2.	2.	0.05
2 COMBINED AT	C25	51.	12.15	7.	2.	2.	0.05
ROUTED TO	C25	41.	12.25	7.	2.	2.	0.05
DIVERSION TO	DIV25	9.	12.25	0.	0.	0.	0.05
HYDROGRAPH AT	C25	32.	12.25	6.	2.	2.	0.05

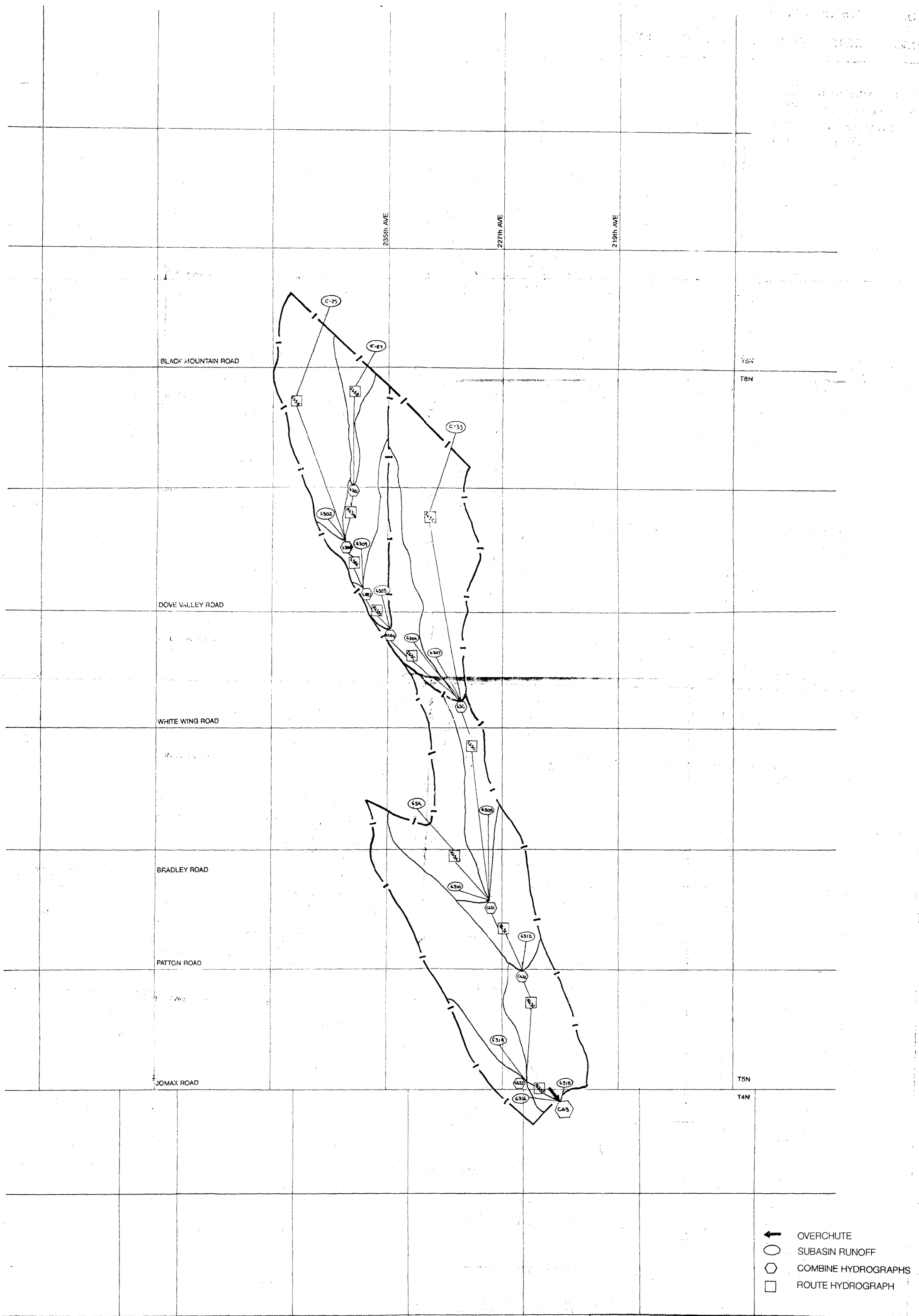
ROUTED TO	C63B	12.	13.10	6.	2.	2.	0.05
HYDROGRAPH AT	6302	772.	12.25	144.	45.	33.	0.75
5 COMBINED AT	63B2A	769.	12.25	205.	64.	48.	1.07
HYDROGRAPH AT	26B	4685.	12.25	882.	275.	206.	12.72
ROUTED TO	C26A	3254.	12.60	880.	275.	206.	12.72
HYDROGRAPH AT	26A	812.	12.20	125.	38.	29.	2.26
2 COMBINED AT	C26A	3550.	12.55	997.	311.	233.	14.98
ROUTED TO	C26	2629.	13.15	993.	311.	233.	14.98
HYDROGRAPH AT	C25	9.	12.25	0.	0.	0.	0.05
ROUTED TO	C26	8.	12.35	0.	0.	0.	0.05
HYDROGRAPH AT	26	363.	13.05	149.	50.	37.	1.12
3 COMBINED AT	C26	2970.	13.15	1135.	359.	269.	16.10
ROUTED TO	C26	2970.	13.15	1135.	359.	269.	16.10
ROUTED TO	C63B	2864.	13.40	1134.	359.	269.	16.10
HYDROGRAPH AT	27	53.	12.20	8.	2.	2.	0.06
ROUTED TO	C27	51.	12.25	8.	2.	2.	0.06
DIVERSION TO	DIV27	23.	12.25	1.	0.	0.	0.06
HYDROGRAPH AT	C27	28.	12.25	7.	2.	2.	0.06
ROUTED TO	C63B	12.	13.40	7.	2.	2.	0.06
HYDROGRAPH AT	6300	138.	12.30	28.	9.	7.	0.15
3 COMBINED AT	63B1	2904.	13.40	1165.	369.	277.	16.31
ROUTED TO	R6300	2901.	13.50	1167.	370.	278.	16.31
2 COMBINED AT	63B2	3184.	13.45	1358.	431.	323.	17.38
ROUTED TO	R63B2	3182.	13.50	1358.	430.	323.	17.38
HYDROGRAPH AT	6304	468.	12.15	72.	22.	17.	0.38
2 COMBINED AT	63B3	3234.	13.50	1424.	452.	339.	17.76
ROUTED TO	R63B3	3234.	13.55	1423.	452.	339.	17.76

HYDROGRAPH AT	6305	125.	12.35	30.	9.	7.	0.16
2 COMBINED AT	63B	3261.	13.55	1451.	461.	346.	17.92
ROUTED TO	C63C	3112.	13.85	1446.	461.	346.	17.92
HYDROGRAPH AT	C27	23.	12.25	1.	0.	0.	0.06
ROUTED TO	C28	12.	12.40	1.	0.	0.	0.06
HYDROGRAPH AT	28	176.	12.35	35.	11.	8.	0.24
2 COMBINED AT	C28	188.	12.35	36.	11.	8.	0.24
ROUTED TO	C28	168.	12.45	36.	11.	8.	0.24
DIVERSION TO	DIV28	99.	12.45	8.	2.	1.	0.24
HYDROGRAPH AT	C28	70.	12.45	28.	9.	7.	0.24
ROUTED TO	C63C	26.	14.80	21.	9.	7.	0.24
HYDROGRAPH AT	C28	99.	12.45	8.	2.	1.	0.24
ROUTED TO	C29	97.	12.50	8.	2.	1.	0.24
HYDROGRAPH AT	29	20.	12.05	2.	1.	0.	0.01
2 COMBINED AT	C29	102.	12.50	10.	3.	2.	0.01
ROUTED TO	C29	98.	12.55	10.	3.	2.	0.01
DIVERSION TO	DIV29	67.	12.55	4.	1.	1.	0.01
HYDROGRAPH AT	C29	31.	12.55	6.	2.	1.	0.01
ROUTED TO	C63C	7.	14.20	5.	2.	1.	0.01
HYDROGRAPH AT	C29	67.	12.55	4.	1.	1.	0.01
ROUTED TO	C30	67.	12.60	4.	1.	1.	0.01
HYDROGRAPH AT	30	20.	12.05	2.	1.	0.	0.01
2 COMBINED AT	C30	69.	12.60	6.	2.	1.	0.01
ROUTED TO	C30	50.	12.75	6.	2.	1.	0.01
DIVERSION TO	DIV30	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	C30	50.	12.75	6.	2.	1.	0.01
ROUTED TO	C63C	9.	13.45	5.	2.	1.	0.01

HYDROGRAPH AT	C30	0.	0.05	0.	0.	0.	0.01
ROUTED TO	C31	0.	0.05	0.	0.	0.	0.01
HYDROGRAPH AT	31	288.	12.85	99.	32.	24.	0.63
2 COMBINED AT	C31	288.	12.85	99.	32.	24.	0.63
ROUTED TO	C31	240.	13.20	99.	32.	24.	0.63
DIVERSION TO	DIV31	16.	13.20	1.	0.	0.	0.63
HYDROGRAPH AT	C31	224.	13.20	98.	32.	24.	0.63
ROUTED TO	C63C	122.	14.95	85.	32.	24.	0.63
5 COMBINED AT	C63C	3217.	13.85	1541.	502.	377.	18.81
HYDROGRAPH AT	C31	16.	13.20	1.	0.	0.	0.63
ROUTED TO	C32	13.	13.30	1.	0.	0.	0.63
HYDROGRAPH AT	32	66.	12.15	10.	3.	2.	0.05
2 COMBINED AT	C32	66.	12.15	10.	3.	2.	0.05
ROUTED TO	C32	46.	12.35	10.	3.	2.	0.05
DIVERSION TO	DIV32	4.	12.35	0.	0.	0.	0.05
HYDROGRAPH AT	C32	42.	12.35	10.	3.	2.	0.05
ROUTED TO	C63C	12.	14.10	8.	3.	2.	0.05
HYDROGRAPH AT	C32	4.	12.35	0.	0.	0.	0.05
ROUTED TO	C33	3.	12.40	0.	0.	0.	0.05
HYDROGRAPH AT	33	41.	12.05	4.	1.	1.	0.02
2 COMBINED AT	C33	41.	12.05	4.	1.	1.	0.02
ROUTED TO	C33	14.	12.20	4.	1.	1.	0.02
DIVERSION TO	DIV33	0.	0.05	0.	0.	0.	0.02
HYDROGRAPH AT	C33	14.	12.20	4.	1.	1.	0.02
ROUTED TO	C63C	4.	14.65	3.	1.	1.	0.02
HYDROGRAPH AT	6306	461.	12.35	89.	28.	21.	0.44
HYDROGRAPH AT	6307	1103.	12.45	248.	77.	58.	1.23

2 COMBINED AT	63C	1545.	12.40	336.	105.	79.	1.67
4 COMBINED AT	C63C	3488.	13.85	1858.	606.	455.	20.55
ROUTED TO	C63	3281.	14.30	1842.	606.	455.	20.55
HYDROGRAPH AT	63A	1088.	13.15	427.	141.	106.	2.67
ROUTED TO	R63A	1025.	13.40	425.	140.	106.	2.67
HYDROGRAPH AT	6308	176.	12.60	49.	16.	12.	0.30
HYDROGRAPH AT	6310	334.	12.65	85.	27.	20.	0.51
4 COMBINED AT	C631	4061.	14.10	2360.	778.	584.	24.04
ROUTED TO	RC631	4053.	14.20	2352.	777.	584.	24.04
HYDROGRAPH AT	6312	130.	13.35	59.	20.	15.	0.39
2 COMBINED AT	C632	4135.	14.20	2407.	796.	598.	24.42
ROUTED TO	RC632	4123.	14.40	2393.	794.	597.	24.42
HYDROGRAPH AT	6314	623.	12.50	141.	44.	33.	0.85
2 COMBINED AT	C633	4208.	14.35	2476.	836.	628.	25.27
ROUTED TO	RC633	4208.	14.40	2475.	835.	628.	25.27
HYDROGRAPH AT	6316	137.	12.45	29.	9.	7.	0.17
HYDROGRAPH AT	6318	420.	12.45	88.	28.	21.	0.53
3 COMBINED AT	C63	4277.	14.40	2556.	870.	653.	25.97
ROUTED TO	C63	4266.	14.45	2555.	870.	653.	25.97
ROUTED TO	C83T	3360.	15.80	2380.	864.	649.	25.97
HYDROGRAPH AT	84T	348.	14.75	218.	80.	60.	1.81
2 COMBINED AT	C83T	3611.	15.70	2568.	938.	705.	27.78
2 COMBINED AT	C83T	7012.	16.65	5364.	2282.	1714.	60.40

*** NORMAL END OF HEC-1 ***



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

	BY	DATE
DESIGN		
DESIGN CHK.		
PLANS		
PLANS CHK.		

SUBMITTED BY: DATE:

SCHEMATIC ROUTING FOR

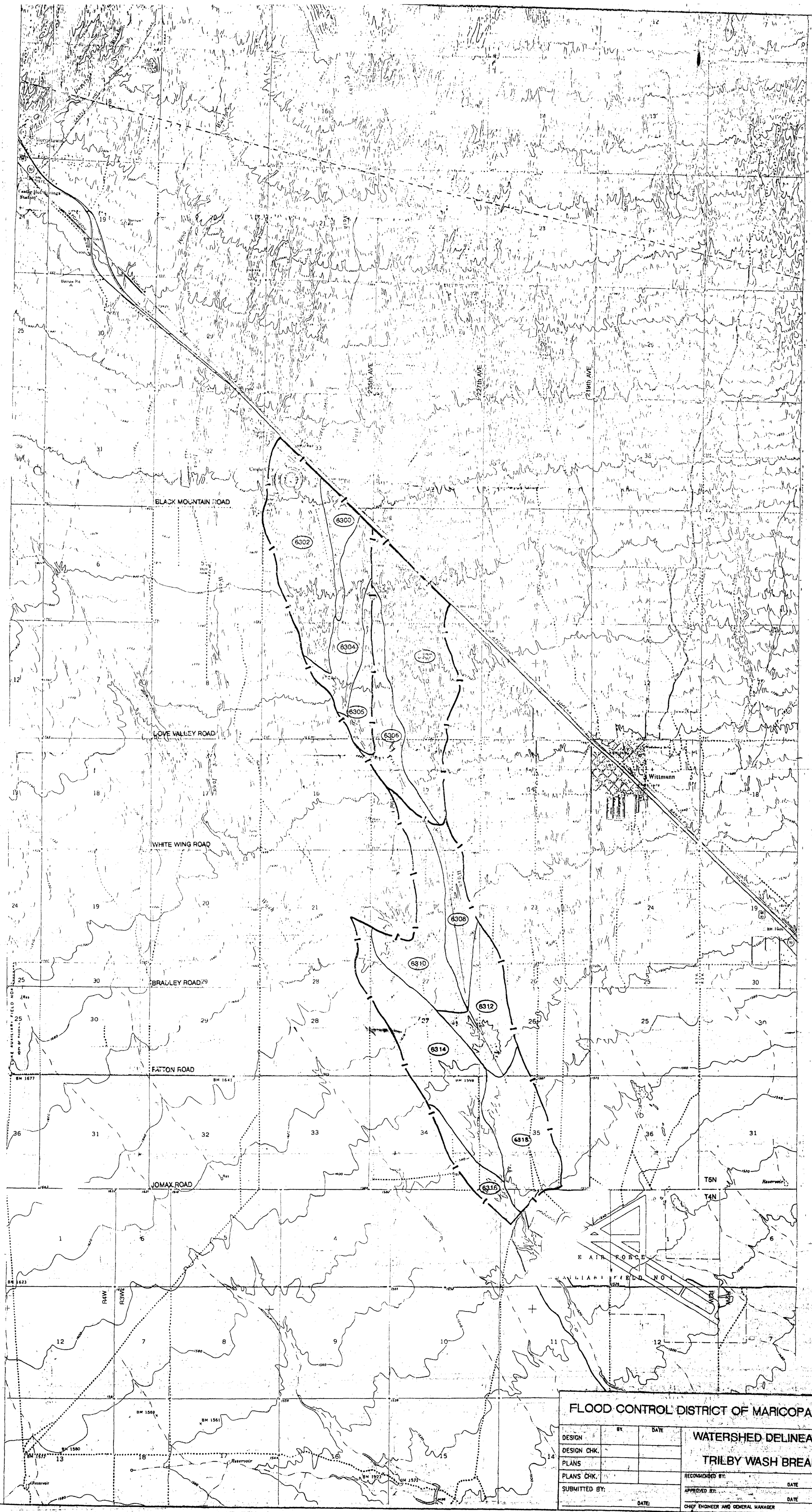
TRILBY WASH BREAKDOWN

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET OF


BLACK MOUNTAIN ROAD
LOVE VALLEY ROAD
WHITE WING ROAD
BRADLEY ROAD
FATTON ROAD
JOMAX ROAD
235th AVE
227th AVE
219th AVE
Wittmann
6300
6302
6304
6305
6306
6308
6310
6312
6314
6316
6318
T5N
T4N
R4W
R3W
R2W
E AIR FORCE
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
WATERSHED DELINEATION FOR
TRILBY WASH BREAKDOWN
DESIGN
DESIGN CHK.
PLANS
PLANS CHK.
SUBMITTED BY:
DATE:
BY
DATE
RECOMMENDED BY:
APPROVED BY:
CHIEF ENGINEER AND GENERAL MANAGER
SHEET
OF

APPENDIX B

HEC-2 OUTPUT TRILBY WASH MAIN CHANNEL

==========
B O S S H E C - 2 (tm)
==========

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Version : 2.50
Serial Number : 0010169.200

Licensed to P & D Technologies

PROGRAM ORIGIN :

Boss Hec-2 (tm) is an enhanced version of the U.S. Army Corps of Engineers Hydrologic Engineering Center HEC-2 program for water-surface profile computations. Program based upon the September 1990 version, updated on August 1991.

DISCLAIMER :

Boss Hec-2 (tm) is a complex program which requires engineering expertise to use correctly. Boss Corporation assumes absolutely no responsibility for the correct use of this program. All results obtained should be carefully examined by an experienced professional engineer to determine if they are reasonable and accurate.

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PROJECT DESCRIPTION :

PROJECT TITLE : TRILBY WASH; GRAND AVENUE TO C.A.P.
PROJECT NUMBER : P&D No. 10320.00; FCD No. 90-24
DESCRIPTION : MAIN CHANNEL; ENCROACHED
ENGINEER : RAMESH I. PATEL, P.E., L.S.
DATE OF RUN : 10/21/1991
TIME OF RUN : 1:34 pm

==========
B O S S H E C - 2 (tm)
==========

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All Rights Reserved

Version : 2.50
Serial Number : 0010169.200

Licensed to P & D Technologies

PROGRAM ORIGIN :

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PROJECT DESCRIPTION :

PROJECT TITLE : TRILBY WASH; GRAND AVENUE TO C.A.P.
PROJECT NUMBER : P&D No. 10320.00; FCD No. 90-24
DESCRIPTION : MAIN CHANNEL; ENCROACHED
ENGINEER : RAMESH I. PATEL, P.E., L.S.
DATE OF RUN : 11/21/1991
TIME OF RUN : 2:03 pm

```
T1      P&D No. 10320.00; FCD No. 90-24
T2      TRILBY WASH; GRAND AVENUE TO C.A.P.
T3      MAIN CHANNEL; ENCROACHED
```

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0.008933	0	0.0	0.0	1545.51	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15

USER-DEFINED SUMMARY TABLES (J3) :

```
    110                 200

NC    0.015      0.015      0.015        0.0        0.0
QT        2     3851.0     3851.0
ET                             9.1                                                    9932.0     10068.0
LOCATED IN CAP OVERCHUTE - S. EDGE OF DIST BSN

X1   10.445          7    9932.19   10067.81        0.0        0.0        0.0        1.0        0.0          0
GR   1549.6     9931.0     1549.6    9932.19    1542.57     9932.2     1542.6    10000.0     1542.6    10067.8
GR   1549.6   10067.81     1549.6   10069.0

ET                             9.1                                                    9932.0     10068.0
LOCATED IN CAP OVERCHUTE @ N EDGE DIST. BASIN

X1    10.45          7    9932.19   10067.81       27.2       27.2       27.2        1.0        0.0          0
GR   1551.7     9931.0     1551.7    9932.19    1544.73     9932.2    1544.81    10000.8    1544.73   10067.80
GR   1551.7   10067.81    1551.73   10069.0

NC      0.0        0.0        0.0        0.1        0.3
ET                             9.1                                                    9932.0     10068.0
LOCATED @ ANG PT ON N. SIDE OF OVERCHUTE 26'S.

X1   10.468          7    9932.19   10067.81       96.0       96.0       96.0        1.0        0.0          0
GR   1551.8     9931.0     1551.8    9932.19    1544.85     9932.2    1544.86    10000.8     1544.8    10067.8
GR   1551.8   10067.81     1551.8   10069.0

NC      0.0        0.0        0.0        0.3        0.5
ET                             9.1                                                    9920.0     10080.0
LOCATED ON N. MOST EDGE OF CAP OVERCHUTE
```

```
X1   10.473        7   9920.64  10079.36      26.0      26.0      26.0       1.0       0.0         0
GR   1551.9   9919.5    1551.9   9920.64    1544.8   9920.65   1544.87   10000.0   1544.82  10079.35
GR   1551.8  10079.36   1551.8   10080.5

NC    0.085    0.090     0.055       0.6       0.8
ET                        9.1                                                     9910.9   10090.3
END CAP OVERCHUTE; BEGIN SECTS THRU NAT. GND.

X1   10.474       28   9919.6   10079.9      10.0      10.0       5.0       1.0       0.0         0
GR   1554.1   9877.3    1553.9   9884.1    1553.9   9888.4    1554.0    9894.6    1553.7    9899.1
GR   1549.7   9909.0    1545.9   9919.6    1545.4   9931.5    1545.5    9942.2    1545.6    9953.1
GR   1545.7   9967.0    1545.3   9974.6    1545.4   9984.4    1545.0    9995.4    1545.0   10000.0
GR   1545.0  10000.1    1544.9  10017.6    1544.9  10027.7    1545.1   10039.0    1545.1   10048.6
GR   1545.3  10056.6    1545.5  10062.7    1545.6  10070.9    1545.7   10079.9    1551.1   10096.9
GR   1553.3  10106.5    1553.8  10116.3    1554.0  10118.9

NC      0.0      0.0       0.0       0.3       0.5
ET                        9.1                                                     9895.4   10110.5
X1   10.479       43   9901.8   10103.2      30.0      45.0      25.6       1.0       0.0         0
GR   1554.8   9806.8    1554.7   9824.4    1554.5   9841.2    1554.5    9851.0    1554.5    9861.0
GR   1554.6   9873.1    1554.2   9881.6    1551.5   9891.3    1546.3    9901.8    1545.6    9906.8
GR   1545.7   9918.2    1546.2   9933.3    1546.1   9947.8    1546.4    9961.9    1546.5    9971.4
GR   1545.9   9978.6    1545.3   9984.6    1544.9   9994.0    1545.0   10000.0    1545.0   10000.1
GR   1544.9  10009.6    1545.0  10017.6    1544.9  10025.8    1544.7   10032.9    1544.9   10040.3
GR   1545.4  10045.8    1545.9  10050.6    1546.2  10059.5    1546.1   10066.5    1546.1   10076.2
GR   1545.8  10081.7    1545.9  10089.6    1546.1  10097.3    1546.6   10103.2    1550.7   10113.6
GR   1552.7  10121.9    1554.1  10129.1    1554.3  10136.0    1554.3   10144.6    1554.3   10155.2
GR   1554.6  10165.9    1554.8  10176.3    1554.9  10183.2

NC      0.0      0.0       0.0       0.1       0.3
ET                        9.1                                                     9910.0   10080.0
X1   10.528       51   9960.9   10060.7     235.0     290.0     260.0       1.0       0.0         0
GR   1552.0   9715.0    1550.4   9753.9    1550.6   9759.6    1550.7    9768.5    1550.9    9783.3
GR   1550.8   9791.3    1550.4   9798.3    1549.9   9803.8    1549.0    9811.8    1547.8    9821.5
GR   1547.5   9824.8    1547.    9832.6    1548.3   9843.8    1548.3    9853.5    1547.9    9861.1
GR   1546.9   9868.3    1547.0   9875.4    1547.7   9885.1    1547.9    9894.5    1548.1    9902.5
GR   1548.2   9909.5    1548.3   9924.3    1548.3   9936.9    1548.3    9948.9    1548.3    9960.9
GR   1548.1   9969.7    1547.0   9978.9    1545.1   9982.9    1544.9    9991.4    1544.6   10000.0
GR   1544.6  10000.1    1544.6  10009.6    1544.9  10020.5    1545.2   10028.1    1545.4   10033.9
GR   1547.5  10043.6    1549.0  10052.1    1549.6  10060.7    1549.6   10068.4    1549.7   10079.5
GR   1549.7  10089.1    1550.0  10097.4    1550.3  10102.1    1550.9   10113.5    1551.4   10122.0
GR   1552.2  10129.2    1552.4  10136.7    1552.7  10145.9    1552.8   10155.0    1552.9   10165.5
GR   1552.8  10168.7

ET                        9.1                                                     9886.0   10074.0
X1   10.592       63   9970.4   10029.0     350.0     345.0     340.0       1.0       0.0         0
GR   1554.2   9746.2    1553.9   9754.7    1553.8   9763.3    1553.9    9773.9    1553.6    9782.8
GR   1552.7   9791.7    1552.4   9801.7    1551.9   9813.3    1551.4    9822.4    1550.9    9827.4
GR   1550.5   9834.4    1550.4   9848.0    1550.3   9861.7    1550.1    9871.2    1550.1    9885.6
GR   1549.8   9898.9    1549.6   9911.5    1549.7   9925.5    1549.7    9937.9    1548.8    9949.2
GR   1548.4   9952.5    1549.2   9959.4    1550.0   9970.4    1549.7    9980.3    1547.5    9988.2
GR   1545.6   9990.4    1545.7  10000.0    1545.7  10000.1    1545.7   10008.8    1546.8   10012.5
```

```
GR   1547.9    10014.6    1548.8    10017.1    1549.2    10020.4    1549.7    10023.0    1550.4    10029.0
GR   1550.2    10036.8    1549.1    10046.8    1548.8    10053.9    1547.2    10058.8    1547.9    10063.8
GR   1549.9    10074.4    1549.7    10084.2    1548.4    10088.6    1548.1    10095.1    1547.9    10098.5
GR   1549.4    10104.3    1550.3    10111.2    1550.7    10120.6    1550.0    10127.9    1549.8    10140.5
GR   1549.5    10147.1    1549.5    10157.5    1549.3    10164.6    1549.2    10175.5    1549.9    10184.6
GR   1550.9    10202.1    1551.9    10226.1    1551.4    10244.6    1551.4    10257.1    1551.5    10267.7
GR   1552.0    10280.6     1553.    10294.9    1554.4    10312.9

ET                          9.1                                                            9902.0    10080.6
X1   10.683        46    9942.1    10023.6     505.0     475.0     480.0       1.0       0.0         0
GR   1559.2    9673.8    1559.2     9687.4    1559.2     9703.4    1559.2    9717.8    1558.6     9733.6
GR   1558.0    9747.0    1557.3     9757.3    1556.8     9765.0    1556.8    9774.9    1556.5     9785.5
GR   1556.7    9795.5    1556.5     9803.8    1555.7     9812.2    1554.8    9819.6    1554.0     9827.4
GR   1553.3    9841.2    1552.5     9863.5    1552.6     9879.4    1553.1    9893.7    1553.2     9902.0
GR   1552.7    9912.7    1551.9     9914.8    1552.7     9921.8    1553.2    9933.6    1553.3     9942.1
GR   1552.9    9949.4    1549.5     9959.9    1549.6     9975.1    1549.3    9991.5    1548.5     9998.0
GR   1549.0   10000.0    1549.0    10000.1    1548.4    10004.1    1548.1   10010.5    1551.2    10015.0
GR   1552.7   10020.1    1552.8    10023.6    1552.3    10025.7    1551.2   10029.8    1550.3    10035.0
GR   1550.6   10038.8    1550.9    10043.0    1551.6    10050.1    1552.9   10060.7    1555.1    10080.4
GR   1556.4   10089.2

NC    0.085     0.090     0.055       0.0       0.0
ET                7.1       9.1                                  9942.5   10121.7    9943.0    10122.0
"n" VALUES MODIFIED PER CROSS SECT. REV 4/4/91

X1   10.761        62    9982.0    10092.7     380.0     465.0     410.0       1.0       0.0         0
GR   1559.5    9809.1    1559.5     9820.0    1559.6     9823.2    1559.4    9834.2    1558.8     9844.6
GR   1558.0    9854.8    1557.2     9867.1    1556.7     9876.5    1555.7    9885.1    1555.2     9894.7
GR   1554.8    9905.0    1554.7     9909.6    1554.9     9918.2    1556.0    9928.9    1557.2     9942.5
GR   1557.2    9951.6    1555.8     9963.3    1554.9     9972.5    1554.6    9982.0    1554.0     9985.3
GR   1550.8    9989.3    1551.2    10000.0    1551.2    10000.1    1551.3   10007.1    1551.8    10011.3
GR   1553.2   10016.6    1553.6    10021.4    1553.6    10026.5    1553.7   10029.8    1553.3    10034.1
GR   1552.3   10040.5    1552.3    10043.5    1553.1    10048.8    1553.9   10053.9    1554.0    10057.6
GR   1553.7   10061.9    1553.2    10065.5    1553.0    10071.1    1554.0   10078.9    1555.6    10092.7
GR   1556.4   10107.9    1556.5    10121.7    1553.5    10188.8    1553.5   10199.5    1553.5    10206.0
GR   1553.3   10210.1    1552.7    10215.9    1552.3    10218.9    1553.1   10222.1    1553.6    10227.8
GR   1553.8   10234.8    1553.5    10239.4    1553.1    10243.7    1553.2   10250.8    1554.7    10260.3
GR   1555.4   10274.1    1554.4    10282.8    1554.2    10285.9    1554.7   10293.5    1555.5    10301.2
GR   1557.1   10310.8    1560.8    10324.1

NC    0.085     0.090     0.055       0.0       0.0
ET                          9.1                                                            9969.0    10105.0
N VALUE MODIFIED FROM PT 59, SECTION 9

X1   10.815        45    9972.9    10083.6     295.0     300.0     285.0       1.0       0.0         0
GR   1563.5    9844.2    1563.0     9861.8    1562.3     9868.9    1561.9    9878.6    1561.4     9886.9
GR   1561.0    9895.9    1560.4     9904.9    1560.2     9917.5    1559.9    9927.1    1559.5     9935.6
GR   1559.0    9943.3    1557.7     9950.1    1556.7     9953.6    1556.4    9959.6    1556.5     9965.0
GR   1556.7    9969.4    1556.5     9972.9    1552.9     9976.2    1552.8    9979.7    1552.6     9990.2
GR   1553.4    9994.8    1553.8     9999.3    1553.5    10000.0    1553.5   10000.1    1554.1    10002.3
GR   1555.0   10005.0    1555.7    10009.0    1555.0    10013.3    1553.5   10016.7    1553.2    10021.1
GR   1553.6   10028.6    1554.3    10036.6    1554.4    10045.3    1554.0   10051.9    1553.8    10059.0
```

```
GR    1554.2    10065.4    1555.2    10071.7    1555.9    10078.1    1556.1    10083.6    1556.2    10091.0
GR    1557.5    10104.9    1558.4    10112.1    1558.7    10122.1    1558.9    10129.2    1562.3    10165.1

NC     0.085     0.090     0.050      0.0       0.0
QT         2    3805.0    3805.0
ET                          9.1                                                            9952.0    10088.0
N PT. 58; Q=3805 CFS FROM FCD

X1    10.876        35    9967.0    10017.3    320.0      34.0    320.0      1.0       0.0         0
GR    1564.4    9899.5    1564.5     9920.2    1564.6    9928.6    1564.5    9934.3    1563.2    9941.7
GR    1560.9    9952.9    1559.4     9961.0    1558.1    9967.0    1554.4    9973.4    1554.8    9980.1
GR    1555.0    9985.3    1555.0     9991.8    1555.0    9998.8    1555.4    10000.0   1555.4    10000.1
GR    1556.3    10003.2   1557.5     10008.5   1558.7    10017.3   1558.1    10020.3   1557.6    10023.8
GR    1558.1    10031.2   1557.9     10036.9   1557.8    10041.6   1557.8    10043.6   1557.3    10047.8
GR    1555.9    10050.7   1555.9     10053.9   1556.9    10058.3   1558.3    10063.2   1558.2    10066.1
GR    1557.3    10071.1   1558.1     10076.2   1561.7    10090.5   1563.0    10099.3   1563.0    10104.4

NH         5     0.080    9904.0      0.055    9927.4     0.090    9959.8     0.055    10011.3    0.090
NH    10212.
ET                          9.1                                                            9834.0    10090.0
N PT. 57; "ISLAND"

X1    10.945        66    9940.3     10038.9    365.0     370.0    365.0      1.0       0.0         0
GR    1567.0    9796.2    1566.9     9802.6    1566.6    9810.1    1566.3    9817.0    1565.5    9822.9
GR    1564.5    9829.3    1564.4     9833.6    1563.9    9839.2    1563.3    9844.0    1561.7    9849.3
GR    1561.5    9858.9    1561.0     9867.5    1560.6    9876.5    1560.3    9883.9    1560.3    9892.2
GR    1560.4    9900.1    1560.3     9904.0    1559.8    9907.5    1558.5    9912.3    1558.2    9915.4
GR    1558.8    9917.9    1560.3     9922.9    1560.8    9927.4    1560.9    9932.9    1560.9    9940.3
GR    1560.6    9945.1    1560.6     9950.7    1560.2    9959.8    1558.8    9966.8    1557.1    9972.0
GR    1557.3    9980.2    1557.2     9988.8    1557.3    9996.6    1557.4    10000.0   1557.4    10000.1
GR    1557.9    10003.2   1558.6     10006.3   1559.1    10011.3   1558.9    10017.4   1558.7    10020.7
GR    1558.2    10026.6   1558.6     10031.6   1559.8    10038.9   1560.2    10046.2   1560.2    10052.5
GR    1560.9    10060.9   1561.6     10069.2   1562.0    10076.8   1562.6    10084.0   1563.0    10089.5
GR    1563.0    10095.7   1562.6     10101.1   1562.3    10106.3   1562.5    10112.4   1562.8    10121.2
GR    1563.3    10131.3   1563.9     10141.2   1564.3    10150.2   1565.3    10161.1   1566.3    10169.6
GR    1567.0    10178.5   1567.2     10185.2   1567.4    10192.6   1567.3    10200.2   1567.4    10204.0
GR    1567.6    10212.0

NC     0.080     0.080     0.05       0.0       0.0
ET                          9.1                                                            9950.0    10107.0
N PT. 56

X1    11.006        40    9979.0     10041.0    315.0     350.0    325.0      1.0       0.0         0
GR    1566.1    9916.1    1564.8     9937.6    1563.9    9943.9    1563.0    9950.1    1562.0    9958.8
GR    1562.0    9965.8    1562.2     9972.2    1562.3    9979.0    1562.0    9983.4    1560.3    9989.3
GR    1558.2    9993.7    1558.4     9998.6    1558.8    10000.0   1558.8    10000.1   1559.0    10006.5
GR    1559.5    10012.4   1559.6     10018.7   1559.6    10023.5   1561.0    10029.3   1562.1    10034.9
GR    1562.5    10041.0   1562.5     10047.3   1562.5    10051.1   1561.8    10055.2   1560.9    10060.9
GR    1560.7    10066.1   1560.9     10069.5   1562.6    10075.3   1563.0    10081.2   1563.2    10087.9
GR    1563.3    10095.8   1563.4     10099.6   1563.4    10104.2   1562.0    10110.0   1561.0    10165.0
GR    1562.0    10200.0   1564.0     10220.0   1566.0    10225.0   1568.0    10235.0   1568.1    10250.0
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ET                          9.1                                                   9938.0    10132.0
X1    11.062        61    9978.7   10023.1     310.0     275.0     295.0       1.0       0.0         0
GR    1568.3    9820.0    1567.7    9864.0    1567.5    9872.2    1566.7    9879.9    1564.3    9890.6
GR    1563.5    9896.6    1563.4    9903.7    1562.4    9909.6    1562.4    9914.8    1561.2    9920.4
GR    1561.4    9923.3    1563.5    9928.9    1563.7    9937.7    1563.6    9942.2    1563.3    9946.7
GR    1563.9    9954.3    1563.7    9961.6    1563.4    9966.0    1563.6    9972.3    1563.9    9978.7
GR    1563.0    9982.2    1560.0    9986.4    1560.2    9995.6    1560.5   10000.0    1560.5   10000.1
GR    1560.6   10005.1    1560.6   10006.8    1560.2   10010.6    1561.8   10015.5    1564.1   10023.1
GR    1564.1   10028.9    1564.3   10034.3    1564.5   10040.4    1564.2   10048.1    1564.0   10056.7
GR    1563.9   10062.7    1564.2   10068.6    1563.9   10071.5    1561.9   10077.6    1562.1   10082.4
GR    1561.8   10085.6    1561.4   10088.1    1563.4   10092.9    1564.0   10096.5    1564.1   10102.2
GR    1563.9   10107.2    1563.7   10113.7    1563.8   10122.3    1563.9   10131.8    1563.6   10140.2
GR    1563.7   10146.9    1563.6   10158.2    1563.4   10166.7    1562.9   10172.9    1563.1   10181.3
GR    1563.1   10191.4    1563.3   10201.5    1563.8   10211.7    1564.8   10222.3    1566.2   10234.1
GR    1567.0   10241.6

ET                          9.1                                                   9894.0    10069.0
X1    11.118        52    9964.4   10060.4     320.0     270.0     295.0       1.0       0.0         0
GR    1570.6    9756.1    1568.5    9794.6    1566.8    9804.1    1565.6    9810.8    1565.0    9818.3
GR    1565.3    9838.5    1565.4    9850.3    1565.7    9861.9    1565.7    9869.5    1565.4    9880.2
GR    1565.0    9893.6    1564.6    9905.2    1563.8    9913.5    1564.5    9920.3    1564.7    9930.1
GR    1564.2    9935.3    1564.5    9940.7    1565.4    9948.1    1565.7    9956.1    1565.9    9964.4
GR    1565.7    9971.2    1565.2    9977.6    1561.6    9988.1    1561.4    9998.8    1561.1   10000.0
GR    1561.1   10000.1    1561.4   10007.8    1562.4   10016.5    1562.9   10022.5    1563.6   10027.3
GR    1563.3   10029.6    1563.0   10032.0    1563.9   10037.2    1564.9   10043.2    1565.4   10051.1
GR    1565.7   10060.4    1565.6   10068.8    1565.1   10075.3    1564.5   10080.7    1565.2   10086.3
GR    1565.4   10091.0    1565.1   10097.4    1565.6   10107.7    1566.3   10117.5    1566.3   10128.3
GR    1566.1   10137.3    1565.8   10146.1    1566.1   10155.1    1566.7   10164.7    1567.8   10177.0
GR    1569.5   10196.1    1570.6   10209.0

NC     0.080    0.085     0.055       0.0       0.0
ET                          9.1                                                   9913.0    10044.0
"n" VALUE MODIFIED PER X-SECT REVIEW 4/4/91

X1    11.190        51    9989.5   10039.5     420.0     335.0     380.0       1.0       0.0         0
GR    1571.5    9841.6    1571.4    9848.3    1570.7    9854.1    1570.6    9859.1    1570.8    9865.3
GR    1570.8    9870.4    1570.7    9876.2    1569.8    9881.3    1569.2    9885.3    1568.5    9890.1
GR    1567.7    9893.5    1567.2    9896.3    1567.1    9899.0    1566.3    9903.0    1566.6    9907.6
GR    1567.2    9913.3    1567.3    9916.8    1567.2    9919.6    1567.0    9922.9    1566.3    9926.0
GR    1566.2    9928.6    1566.8    9934.1    1567.0    9938.1    1566.9    9948.5    1566.8    9953.7
GR    1566.8    9958.9    1566.6    9962.9    1565.9    9967.9    1565.0    9972.0    1565.0    9974.6
GR    1565.5    9976.8    1566.1    9979.2    1566.6    9983.0    1566.6    9985.8    1566.5    9989.5
GR    1566.1    9992.1    1565.4    9994.5    1563.8    9998.1    1563.7   10000.0    1563.7   10000.1
GR    1563.6   10008.3    1563.5   10014.0    1563.5   10019.1    1563.7   10024.3    1565.8   10030.3
GR    1568.8   10039.5    1570.4   10045.2    1572.8   10051.8    1573.6   10055.1    1573.7   10058.9
GR    1573.7   10064.1

NC     0.085    0.085     0.055       0.0       0.0
ET                          9.1                                                   9881.0    10054.0
N PT. 54

X1    11.259        43    9976.1   10039.5     310.0     395.0     365.0       1.0       0.0         0
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GR   1573.5    9764.4    1572.0    9799.4    1570.0    9814.4    1568.8    9834.4    1571.4    9859.4
GR   1571.2    9863.3    1571.5    9868.1    1571.9    9874.2    1572.0    9881.4    1571.8    9896.6
GR   1571.1    9904.2    1569.7    9910.9    1568.7    9916.2    1568.9    9920.7    1568.9    9923.7
GR   1568.7    9925.9    1567.4    9930.2    1566.3    9932.7    1566.3    9937.0    1566.5    9940.9
GR   1567.4    9944.3    1568.3    9947.1    1568.9    9951.8    1569.2    9960.2    1569.2    9968.1
GR   1569.3    9976.1    1569.1    9982.8    1567.6    9988.4    1566.5    9990.8    1566.1   10000.0
GR   1566.1   10000.1    1566.1   10005.1    1566.5   10009.3    1567.6   10012.5    1568.2   10016.1
GR   1568.0   10018.8    1567.4   10022.8    1568.1   10028.4    1569.0   10033.9    1569.2   10039.5
GR   1573.1   10054.4    1574.2   10062.7    1574.3   10068.1

NC    0.085    0.085     0.050      0.0       0.0
ET                        9.1                                                        9908.0   10065.0
"n" VALUE MODIFIED PER X-SECT REVIEW 4/4/91

X1   11.351       62    9969.6   10030.3     460.0     515.0     485.0       1.0       0.0        0
GR   1578.6    9600.0    1578.0    9660.0    1577.0    9705.0    1576.0    9760.0    1575.0    9770.0
GR   1574.0    9780.0    1573.6    9800.6    1573.6    9807.5    1573.2    9814.7    1573.2    9821.9
GR   1573.0    9828.5    1572.9    9834.7    1572.9    9841.7    1572.9    9849.9    1573.0    9857.7
GR   1573.0    9865.4    1573.1    9872.6    1573.5    9879.6    1574.0    9887.2    1574.4    9894.7
GR   1574.4    9894.7    1574.4    9908.3    1574.1    9914.6    1573.1    9920.1    1571.6    9929.1
GR   1571.2    9932.3    1571.6    9938.0    1571.6    9944.9    1571.1    9950.5    1570.1    9956.6
GR   1571.0    9960.9    1572.0    9966.4    1572.0    9969.6    1571.0    9973.6    1568.3    9977.7
GR   1568.4    9982.1    1568.8    9989.7    1569.1    9996.8    1568.9   10000.0    1568.9   10000.1
GR   1569.4   10006.2    1569.8   10011.5    1570.5   10017.5    1571.4   10025.0    1571.9   10030.3
GR   1571.7   10037.3    1571.5   10043.1    1571.5   10048.7    1572.7   10055.8    1574.2   10064.6
GR   1575.3   10077.1    1577.5   10091.4    1578.3   10097.7    1578.6   10104.5    1578.6   10112.3
GR   1578.6   10119.3    1578.6   10127.8    1578.4   10134.8    1578.3   10141.7    1578.5   10148.7
GR   1578.9   10156.0    1578.9   10161.3

NC    0.080    0.080     0.050      0.0       0.0
ET                        9.1                                                        9908.0   10136.0
N VALUES SET = TO PT. 52, SECTION 20

X1   11.426       69    9969.6   10030.9     440.0     370.0     395.0       1.0       0.0        0
GR   1578.7    9827.4    1574.8    9839.4    1574.7    9846.6    1574.8    9853.2    1574.4    9860.7
GR   1574.1    9867.0    1573.8    9875.8    1573.0    9883.3    1573.6    9888.5    1573.6    9894.9
GR   1573.8    9901.4    1574.2    9908.3    1574.1    9915.3    1574.3    9923.3    1574.3    9933.1
GR   1573.8    9939.1    1572.9    9946.6    1572.9    9953.7    1573.3    9960.4    1573.5    9963.9
GR   1573.6    9969.6    1572.9    9975.8    1571.5    9984.1    1571.5    9991.1    1571.1    9996.2
GR   1570.7   10000.0    1570.7   10000.1    1570.7   10006.7    1571.1   10014.0    1571.3   10018.2
GR   1572.0   10021.9    1573.9   10030.9    1574.3   10037.5    1574.8   10046.0    1574.6   10052.8
GR   1574.6   10059.9    1575.3   10068.0    1575.7   10074.7    1575.8   10080.9    1575.3   10086.4
GR   1575.0   10089.6    1575.0   10095.2    1574.8   10098.3    1574.6   10103.3    1575.1   10111.7
GR   1576.2   10121.5    1576.7   10128.1    1577.0   10136.3    1576.9   10144.3    1576.7   10152.7
GR   1575.7   10159.5    1574.4   10165.6    1574.1   10176.0    1573.9   10187.5    1574.0   10201.8
GR   1574.9   10211.5    1575.8   10220.1    1575.9   10225.5    1575.1   10231.7    1574.2   10238.1
GR   1574.1   10247.2    1574.1   10255.1    1574.0   10262.6    1573.9   10279.0    1573.8   10294.0
GR   1574.3   10308.1    1576.2   10324.9    1578.5   10345.8    1580.5   10366.2

NC    0.085    0.085     0.050      0.0       0.0
ET                        9.1                                                        9847.0   10030.0
```

N PT. 52

X1	11.515	36	9935.2	10015.1	500.0	460.0	470.0	1.0	0.0	0
GR	1582.2	9785.0	1580.8	9800.6	1580.0	9812.6	1579.2	9820.7	1577.4	9829.3
GR	1577.4	9841.2	1576.9	9847.3	1576.9	9854.0	1576.8	9859.0	1575.4	9863.8
GR	1575.1	9869.9	1576.0	9875.2	1577.0	9883.0	1577.1	9891.8	1576.9	9897.2
GR	1577.1	9905.1	1576.8	9911.7	1576.3	9921.3	1576.0	9929.8	1576.4	9935.2
GR	1576.2	9939.3	1574.7	9948.0	1574.1	9955.7	1574.4	9962.1	1575.2	9968.0
GR	1575.4	9976.4	1575.0	9981.2	1573.6	9988.9	1573.6	9997.1	1573.9	10000.0
GR	1573.9	10000.1	1574.4	10007.1	1575.9	10015.1	1577.6	10022.0	1578.3	10027.9
GR	1582.6	10042.0								
NH	5	0.080	9889.4	0.070	9927.2	0.060	9971.8	0.055	10013.0	0.08
NH	10190.									
ET			9.1						9886.0	10042.0

N PT. 51

X1	11.554	57	9971.8	10013.0	175.0	225.0	205.0	1.0	0.0	0
GR	1583.7	9828.0	1582.4	9835.0	1581.2	9844.5	1579.9	9852.0	1578.5	9858.5
GR	1578.4	9870.1	1578.2	9879.0	1578.3	9886.1	1578.2	9889.4	1576.4	9897.0
GR	1576.3	9902.3	1576.6	9907.4	1577.9	9916.3	1578.6	9922.4	1578.5	9927.2
GR	1577.8	9932.8	1577.1	9937.6	1576.1	9946.2	1575.9	9953.8	1575.9	9961.2
GR	1576.7	9967.7	1577.5	9971.8	1577.4	9978.1	1576.6	9982.4	1575.7	9987.1
GR	1575.6	9992.8	1575.4	10000.0	1575.4	10000.1	1575.7	10003.0	1577.0	10005.7
GR	1578.3	10009.9	1578.8	10013.0	1578.8	10017.7	1578.3	10020.1	1578.9	10025.2
GR	1580.6	10035.9	1580.9	10042.4	1579.9	10048.2	1579.3	10052.3	1578.7	10060.2
GR	1578.6	10071.0	1578.4	10082.6	1578.3	10090.9	1579.0	10099.9	1580.2	10109.3
GR	1580.1	10114.1	1579.4	10120.9	1578.9	10129.6	1578.8	10138.5	1579.1	10150.2
GR	1579.3	10157.0	1579.1	10162.5	1580.0	10168.2	1582.3	10178.0	1582.8	10184.8
GR	1582.9	10189.9	1582.8	10190.4						
NH	5	0.080	9881.5	0.070	9920.6	0.060	9963.8	0.050	10028.1	0.080
NH	10210.									
ET			9.1						9921.0	10061.0
X1	11.626	35	9963.8	10028.1	375.0	395.0	380.0	1.0	0.0	0
GR	1587.5	9855.6	1587.1	9869.0	1586.7	9881.5	1581.4	9897.6	1580.7	9906.9
GR	1581.3	9914.0	1581.5	9920.6	1580.1	9932.1	1579.8	9934.4	1578.5	9935.9
GR	1578.5	9939.8	1579.6	9944.0	1581.4	9959.4	1581.4	9963.8	1577.4	9968.3
GR	1577.1	9976.2	1576.9	9982.4	1576.8	9998.0	1577.0	10000.0	1577.0	10000.1
GR	1578.2	10013.7	1580.6	10024.6	1580.7	10028.1	1580.4	10033.4	1580.8	10044.9
GR	1580.8	10053.9	1581.0	10060.9	1580.6	10065.4	1580.8	10081.3	1580.8	10089.5
GR	1580.6	10095.3	1580.9	10103.2	1580.9	10103.3	1582.0	10155.0	1584.0	10210.0
NC	0.080	0.085	0.060	0.1	0.3					
ET			9.1						9920.0	10064.0

N PT. 50; PATTON RD CULVERT CROSSING; SECT 1

X1	11.688	39	9963.5	10048.1	360.0	315.0	330.0	1.0	0.0	0
GR	1588.0	9711.6	1588.0	9721.9	1587.7	9725.0	1587.6	9740.0	1587.9	9743.2
GR	1587.3	9747.2	1587.6	9754.8	1587.2	9762.8	1586.2	9776.3	1585.0	9804.2
GR	1583.6	9820.9	1583.5	9832.7	1584.1	9839.9	1584.0	9845.8	1584.8	9857.8
GR	1583.5	9864.9	1583.3	9883.0	1583.4	9892.6	1583.6	9898.3	1583.3	9909.9

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GR   1582.8    9928.6    1583.5    9936.6    1583.4    9943.9    1582.9    9951.5    1582.8    9963.5
GR   1582.3    9973.2    1581.9    9980.4    1578.8    9987.4    1578.7   10000.0    1578.7   10000.1
GR   1579.2   10024.6    1581.7   10030.8    1581.4   10039.9    1582.9   10048.1    1583.5   10058.4
GR   1584.4   10064.2    1584.6   10073.1    1586.6   10084.2    1588.2   10098.7

NC    0.085    0.085     0.050     0.6       0.8
ET                       9.11                                                        9894.0   10085.0
PATTON ROAD CULVERT CROSSING; SECTION 2

X1   11.722      18     9930.0   10050.0    160.0     200.0     180.0      1.0       0.0       0
X3      10     0.0       0.0       0.0       0.0       0.0       0.0      0.0       0.0
GR   1588.0   9620.0    1586.0    9740.0    1585.5    9790.0    1586.0    9830.0    1586.4    9870.0
GR   1585.1   9894.0    1583.9    9919.0    1582.5    9930.0    1581.1    9959.0    1578.9    9966.0
GR   1578.9  10000.0    1578.5   10034.0    1580.5   10042.0    1582.2   10050.0    1583.9   10085.0
GR   1585.1  10122.0    1586.2   10172.0    1586.9   10188.0

ET                       9.11                                                        9885.0   10095.0
SC    8.032    0.80      3.0       0.0       5.66      0.0      60.0      2.3       1578.6    1578.4
PATTON ROAD CULVERT XING; SECT 3; N PT. 48,MOD

X1   11.734      21     9928.3   10077.0     60.0      60.0      60.0      1.0       0.0       0
X2     0.0     0.0         2       0.0       0.0       0.0         0      0.0       0.0
X3      10     0.0       0.0       0.0       0.0       0.0       0.0      0.0       0.0
BT     -19   9630.0    1588.0       0.0    9677.0    1587.4       0.0   9734.0    1586.8       0.0
BT           9781.1    1586.3       0.0    9799.7    1586.4       0.0   9815.5    1586.5       0.0
BT           9834.5    1586.6       0.0    9868.1    1586.5       0.0   9870.0    1586.3       0.0
BT           9909.5    1586.6       0.0    9928.3    1586.6       0.0   9966.0    1586.6       0.0
BT          10000.0    1586.4       0.0   10034.0    1585.9       0.0  10077.0    1584.9       0.0
BT          10094.5    1585.2       0.0   10122.0    1585.7       0.0  10167.0    1586.5       0.0
BT          10188.0    1587.1       0.0
GR   1588.0   9630.0    1587.4    9677.0    1586.8    9734.0    1585.7    9781.1    1586.1    9799.7
GR   1586.4   9815.5    1586.2    9834.5    1586.5    9868.1    1586.3    9870.0    1586.6    9909.5
GR   1582.8   9928.3    1579.0    9966.0    1579.0   10000.0    1579.0   10034.0    1584.9   10077.0
GR   1585.2  10094.5    1585.7   10122.0    1586.5   10167.0    1587.1   10188.0    1587.8   10194.0
GR   1588.2  10216.1

NC    0.080    0.080     0.050     0.0       0.0
QT        2   3756.0    3756.0
ET                       9.1                                                         9843.0   10023.0
N VAL MOD FROM PT. 47; Q=3756 CFS FROM FCD

X1   11.811      24     9953.6   10022.8    480.0     365.0     410.0      1.0       0.0       0
X3      10     0.0       0.0       0.0       0.0       0.0       0.0      0.0       0.0
GR   1591.9   9827.1    1589.0    9844.7    1587.2    9853.0    1587.5    9881.8    1588.0    9898.6
GR   1588.5   9921.3    1587.2    9927.9    1587.4    9934.6    1587.4    9943.9    1587.0    9953.6
GR   1585.6   9960.5    1586.4    9967.3    1586.2    9976.2    1585.6    9987.4    1583.2    9991.3
GR   1582.9  10000.0    1582.9   10000.1    1583.3   10013.6    1585.5   10018.5    1589.4   10022.8
GR   1590.8  10033.9    1592.0   10043.4    1592.1   10054.2    1592.1   10066.9

NC     0.0      0.0       0.0       0.1       0.3
ET                       9.1                                                         9957.0   10140.0
X1   11.876      33     9978.9   10051.6    295.0     390.0     340.0      1.0       0.0       0
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 GR   1594.5    9939.8   1593.6    9949.3   1592.9    9960.5   1590.5    9974.3   1590.0    9978.9
 GR   1585.0    9986.3   1584.6   10000.0   1584.6   10000.1   1585.5   10008.6   1586.0   10013.3
 GR   1589.9   10022.8   1590.9   10030.1   1591.3   10041.7   1592.1   10051.6   1591.9   10060.7
 GR   1589.9   10069.3   1589.0   10080.4   1588.4   10091.4   1589.4   10099.6   1589.3   10111.2
 GR   1589.4   10119.7   1589.3   10131.5   1589.5   10144.2   1589.9   10154.9   1589.5   10165.8
 GR   1587.9   10169.1   1587.7   10179.1   1589.0   10183.4   1590.0   10194.2   1589.3   10199.6
 GR   1589.5   10203.6   1591.8   10213.8   1594.8   10226.4

 NC    0.080    0.085    0.055       0.0       0.0
 ET                      9.1                                                    9925.0   10159.0
N PT. 46

 X1   11.960       34   9962.6   10061.5     455.0     430.0     445.0       1.0       0.0        0
 GR   1597.0    9893.6   1595.6    9919.1   1594.0    9936.9   1592.9    9962.6   1588.6    9975.0
 GR   1588.2    9986.4   1588.4   10000.0   1588.4   10000.1   1588.6   10012.2   1589.0   10021.5
 GR   1591.4   10036.0   1592.9   10044.8   1593.2   10061.5   1593.2   10074.1   1593.3   10083.9
 GR   1593.2   10094.1   1592.7   10105.8   1592.1   10115.1   1593.0   10123.2   1593.1   10128.6
 GR   1592.5   10135.1   1592.9   10144.6   1592.9   10151.9   1592.7   10159.0   1592.4   10163.9
 GR   1592.8   10175.3   1590.7   10189.0   1591.2   10197.6   1592.6   10204.1   1593.3   10212.4
 GR   1595.0   10225.1   1596.5   10238.9   1597.0   10260.5   1597.1   10277.5

 NC       0.0      0.0      0.0       0.0       0.0
 NH         5     0.08   9865.0      0.05   9883.8      0.08   9976.3      0.05  10053.2     0.085
 NH   10075.
 ET                      9.1                                                    9926.0   10058.0
N PT. 45

 X1   12.041       51   9976.3   10053.2     490.0     390.0     430.0       1.0       0.0        0
 GR   1599.2    9768.7   1599.1    9773.2   1599.1    9778.1   1598.5    9784.8   1597.9    9791.3
 GR   1596.7    9800.2   1596.2    9809.7   1595.9    9823.3   1595.4    9828.9   1596.0    9835.1
 GR   1596.1    9844.1   1596.0    9849.3   1595.3    9855.1   1594.8    9861.2   1594.5    9865.0
 GR   1592.0    9870.4   1592.1    9874.8   1593.5    9878.8   1594.9    9883.8   1594.9    9888.0
 GR   1594.9    9892.4   1594.9    9898.4   1594.9    9904.2   1595.5    9910.7   1595.8    9916.9
 GR   1596.2    9921.7   1596.7    9926.1   1596.7    9932.1   1596.6    9938.4   1596.3    9944.8
 GR   1595.2    9952.1   1595.1    9961.0   1595.9    9965.9   1595.9    9971.1   1596.0    9976.3
 GR   1595.8    9981.0   1595.2    9986.6   1591.9    9993.7   1591.8   10000.0   1591.8   10000.1
 GR   1591.7   10009.3   1592.4   10019.3   1592.7   10027.7   1592.5   10034.5   1592.6   10039.8
 GR   1592.8   10044.8   1593.0   10048.3   1596.2   10053.2   1599.0   10062.3   1599.4   10069.0
 GR   1599.4   10075.0

 NC    0.070    0.080    0.060       0.0       0.0
 ET                      9.1                                                    9923.0   10063.0
N PT. 43

 X1   12.128       32   9937.4   10049.9     445.0     475.0     460.0       1.0       0.0        0
 GR   1601.6    9881.2   1601.8    9886.2   1601.1    9895.4   1599.4    9904.7   1598.5    9923.3
 GR   1597.9    9931.6   1597.8    9937.4   1594.7    9941.8   1594.9    9945.5   1594.5    9948.9
 GR   1593.6    9952.5   1594.9    9958.5   1597.3    9965.3   1597.9    9968.3   1596.3    9976.3
 GR   1595.7    9988.5   1595.2   10000.0   1595.2   10000.1   1595.4   10010.7   1595.4   10019.0
 GR   1595.3   10027.3   1596.4   10034.9   1597.9   10041.4   1599.2   10049.9   1598.6   10057.1
 GR   1600.0   10063.4   1600.8   10071.2   1601.0   10082.3   1601.3   10093.1   1601.5   10101.8
 GR   1601.2   10107.7   1601.1   10119.6
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NH      5     0.080    9975.3    0.055   10041.1    0.080   10139.9    0.055   10202.7    0.080
NH  10439.
ET                       9.1                                                   9977.0   10197.0
X1  12.174       45    9981.6   10041.1     250.0    245.0    240.0      1.0      0.0         0
GR  1604.9   9927.1    1604.4    9938.8    1603.6   9948.9   1603.0   9964.7    1604.1    9975.3
GR  1599.4   9981.6    1596.9    9988.0    1597.1   9997.8   1597.0  10000.0    1597.6   10023.5
GR  1597.9  10029.1    1599.8   10035.5    1600.0  10041.1   1599.8  10048.0    1599.8   10054.8
GR  1599.2  10059.2    1598.5   10066.8    1598.3  10073.7   1598.9  10082.7    1600.0   10089.6
GR  1600.1  10094.7    1599.3   10102.1    1600.3  10108.5   1600.7  10114.8    1600.3   10121.1
GR  1600.0  10125.9    1600.5   10132.4    1600.6  10139.9   1599.4  10148.4    1597.9   10154.0
GR  1598.3  10181.2    1599.6   10189.4    1601.0  10196.9   1601.0  10202.7    1600.6   10210.0
GR  1600.0  10216.3    1600.3   10227.9    1601.3  10239.3   1601.3  10248.4    1600.6   10260.2
GR  1600.4  10273.0    1600.4   10279.2    1600.5  10354.2   1602.0  10381.2    1604.0   10439.2

NC   0.085    0.085     0.055       0.0       0.0
ET                       9.1                                                   9892.0   10068.0
N PT. 42; "ISLAND", MODIFIED

X1  12.249       53    9931.4   10034.5     405.0    395.0    395.0      1.0      0.0         0
GR  1605.9   9600.5    1605.9    9608.7    1605.9   9618.6   1605.8   9626.7    1605.4    9632.0
GR  1605.1   9641.8    1605.1    9656.6    1605.4   9668.5   1605.1   9678.8    1605.3    9689.1
GR  1605.4   9707.1    1605.3    9718.3    1604.7   9726.9   1604.1   9734.6    1604.3    9741.3
GR  1604.7   9747.3    1604.8    9753.5    1605.0   9763.8   1605.1   9772.9    1604.5    9785.2
GR  1604.2   9795.2    1604.0    9803.9    1603.7   9813.9   1603.0   9821.1    1603.3    9833.5
GR  1603.4   9843.4    1603.2    9849.4    1602.6   9855.5   1602.7   9861.2    1603.6    9868.5
GR  1603.7   9874.9    1603.6    9891.5    1603.3   9898.4   1603.0   9904.6    1603.0    9914.1
GR  1603.2   9922.7    1603.3    9931.4    1602.9   9936.7   1600.1   9948.8    1599.9    9982.8
GR  1599.9  10000.0    1599.9   10000.1    1599.9  10007.2   1600.4  10012.4    1601.3   10018.6
GR  1601.6  10026.6    1601.9   10034.5    1601.9  10041.9   1602.2  10048.1    1602.5   10053.4
GR  1604.3  10065.0    1606.2   10078.8    1606.4  10088.2

NC   0.085    0.085     0.060       0.0       0.0
ET                       9.1                                                   9902.0   10064.0
N PT. 41

X1  12.325       43    9935.7   10019.2     400.0    415.0    405.0      1.0      0.0         0
GR  1609.4   9849.9    1607.3    9872.2    1605.8   9893.2   1605.0   9893.2    1605.7    9902.3
GR  1605.2   9907.6    1603.8    9914.3    1603.9   9920.0   1604.8   9926.2    1605.2    9935.7
GR  1604.7   9942.3    1604.5    9950.8    1604.3   9960.2   1603.8   9964.7    1602.3    9970.1
GR  1601.1  10000.0    1601.2   10000.1    1601.2  10000.2   1601.4  10004.9    1603.0   10008.7
GR  1605.0  10019.2    1605.0   10027.5    1605.0  10032.1   1604.8  10040.3    1604.5   10044.4
GR  1605.2  10049.5    1606.7   10059.1    1606.9  10064.1   1606.8  10071.0    1606.1   10080.1
GR  1605.5  10089.7    1605.4   10101.2    1605.6  10106.2   1606.2  10115.8    1606.9   10129.2
GR  1607.1  10141.4    1607.4   10155.6    1607.8  10169.5   1608.2  10178.7    1608.7   10186.9
GR  1608.9  10195.9    1609.7   10205.5    1610.3  10214.3

NC   0.080    0.095     0.055       0.0       0.0
ET                       9.1                                                   9898.0   10091.0
N PT. 40

X1  12.395       52    9949.5   10053.6     315.0     40.0    370.0      1.0      0.0         0
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GR   1610.2    9831.8   1610.3    9831.9   1610.3    9832.0   1610.3    9832.1   1610.0    9845.0
GR   1609.5    9858.0   1608.9    9871.8   1608.5    9884.3   1608.0    9898.3   1607.     9910.0
GR   1608.1    9915.3   1608.6    9927.1   1608.7    9938.2   1608.6    9949.5   1608.2    9957.6
GR   1607.6    9966.6   1607.3    9971.6   1604.3    9981.3   1604.1    9993.2   1603.9   10000.0
GR   1603.9   10000.1   1604.0   10008.8   1604.3   10016.6   1604.5   10020.4   1604.5   10024.2
GR   1604.5   10027.0   1605.2   10032.0   1606.8   10043.5   1607.3   10053.6   1607.3   10065.2
GR   1607.3   10074.0   1607.3   10085.6   1607.4   10090.9   1607.2   10099.1   1606.7   10106.9
GR   1606.0   10113.4   1605.7   10119.5   1605.4   10126.8   1605.7   10130.4   1607.0   10137.4
GR   1607.5   10145.4   1607.8   10157.8   1607.9   10167.8   1607.8   10176.6   1607.9   10187.6
GR   1608.1   10196.5   1608.3   10206.1   1609.5   10217.3   1610.3   10228.7   1610.6   10239.5
GR   1611.0   10252.3   1611.0   10263.0

NC    0.080    0.080    0.050       0.1       0.3
QT        2   3706.0   3706.0
ET                        9.1                                                   9898.0   10062.0
N PT. 39; Q=3706 CFS FROM FCD

X1   12.484       58   9966.6   10061.3     460.0     485.0     465.0       1.0      0.0        0
GR   1614.1    9610.0   1614.0    9640.0   1613.2    9662.6   1613.3    9668.4   1612.9    9678.4
GR   1612.7    9689.0   1612.6    9696.5   1612.7    9707.1   1612.8    9713.3   1612.6    9721.7
GR   1613.0    9732.9   1613.0    9745.1   1613.2    9755.9   1613.2    9766.8   1613.1    9777.7
GR   1613.2    9787.6   1613.3    9796.5   1613.4    9804.2   1613.2    9815.9   1613.2    9826.6
GR   1613.1    9837.7   1612.9    9848.0   1612.8    9851.3   1612.2    9858.0   1613.1    9863.6
GR   1613.2    9871.8   1613.2    9881.2   1613.5    9892.5   1613.5    9902.6   1613.4    9912.3
GR   1613.3    9925.3   1613.2    9939.2   1612.9    9955.5   1613.0    9966.6   1611.5    9971.9
GR   1609.7    9978.8   1607.2    9983.3   1607.2    9995.3   1607.1   10000.0   1607.1   10000.1
GR   1607.6   10006.9   1608.3   10011.1   1608.4   10018.6   1609.1   10024.1   1610.6   10034.2
GR   1611.2   10044.7   1613.3   10061.3   1612.9   10075.5   1612.6   10085.8   1612.5   10094.7
GR   1612.8   10102.9   1613.3   10119.3   1614.1   10137.5   1615.0   10159.5   1614.9   10177.3
GR   1615.6   10209.6   1615.6   10231.4   1615.6   10240.4

NC    0.080    0.080    0.060       0.0       0.0
ET                        9.1                                                   9930.0   10061.0
N PT. 38

X1   12.568       64   9969.2   10043.5     495.0     405.0     445.0       1.0      0.0        0
GR   1619.3    9735.4   1619.3    9740.4   1619.2    9744.5   1618.9    9751.0   1618.6    9755.9
GR   1618.7    9762.6   1618.8    9768.2   1618.4    9776.4   1618.0    9783.0   1618.0    9788.4
GR   1618.1    9792.5   1618.5    9796.7   1618.2    9801.7   1618.0    9807.6   1617.9    9817.0
GR   1617.9    9829.4   1617.7    9837.2   1617.5    9842.2   1617.5    9847.3   1617.3    9852.7
GR   1617.1    9859.1   1617.1    9869.6   1617.1    9879.9   1617.0    9891.5   1617.2    9901.2
GR   1617.1    9905.9   1616.7    9912.7   1616.9    9919.4   1617.2    9922.7   1617.6    9927.6
GR   1617.6    9929.8   1616.9    9933.3   1614.7    9942.5   1613.1    9951.2   1613.2    9954.4
GR   1613.5    9957.8   1614.3    9961.8   1615.0    9966.2   1615.1    9969.2   1615.1    9972.7
GR   1615.1    9976.6   1614.7    9980.2   1613.6    9983.7   1612.2    9990.4   1611.5    9995.8
GR   1610.9   10000.0   1610.9   10000.1   1610.9   10015.0   1610.9   10018.5   1611.2   10024.6
GR   1614.2   10030.6   1615.7   10036.8   1616.0   10043.5   1616.3   10050.9   1616.9   10061.2
GR   1616.9   10064.2   1617.3   10070.4   1617.8   10079.2   1618.2   10088.4   1618.3   10097.4
GR   1618.6   10107.1   1618.6   10116.5   1618.6   10126.9   1618.8   10138.9

ET                        9.1                                                   9928.0   10066.0
X1   12.650       36   9958.7   10042.9     415.0     460.0     435.0       1.0      0.0        0
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 GR   1622.0    9720.0    1621.5    9750.0    1621.0    9810.0    1620.5    9860.0    1620.1    9917.7
 GR   1620.2    9928.5    1619.9    9941.1    1619.5    9952.0    1618.9    9958.7    1618.3    9967.4
 GR   1617.6    9974.6    1613.9    9983.9    1613.9   10000.0    1613.9   10000.1    1614.0   10010.7
 GR   1614.3   10014.4    1615.5   10019.5    1617.9   10027.2    1618.8   10034.1    1619.3   10042.9
 GR   1619.3   10052.3    1619.7   10058.0    1620.2   10065.5    1620.3   10074.0    1620.2   10084.6
 GR   1619.9   10093.9    1619.6   10102.2    1619.7   10111.7    1619.9   10120.5    1620.1   10130.7
 GR   1620.5   10144.9    1620.8   10160.5    1621.5   10176.7    1622.1   10194.8    1622.3   10209.1
 GR   1622.3   10218.1

 NC    0.080    0.080     0.040     0.0       0.0
 ET                       9.1                                                         9912.0   10081.0
N PT. 36

 X1   12.734      49     9972.3   10031.9    450.0     390.0     445.0      1.0       0.0         0
 GR   1625.0    9760.0    1624.0    9810.0    1622.5    9825.0    1624.0    9855.0    1625.0    9901.6
 GR   1625.0    9901.7    1625.0    9901.8    1624.9    9912.2    1624.5    9922.4    1624.0    9937.4
 GR   1622.9    9951.9    1622.9    9962.2    1623.2    9972.3    1623.0    9976.2    1621.6    9984.2
 GR   1616.4    9992.2    1616.3   10000.0    1616.3   10000.1    1616.6   10007.2    1617.0   10012.0
 GR   1618.2   10016.8    1621.0   10024.2    1623.2   10031.9    1623.2   10042.2    1623.3   10056.0
 GR   1623.4   10063.5    1623.4   10070.3    1623.4   10080.5    1623.0   10084.5    1620.0   10090.5
 GR   1619.9   10093.5    1621.7   10097.4    1621.8   10100.0    1620.0   10103.8    1619.1   10105.5
 GR   1621.8   10109.8    1623.3   10117.9    1623.3   10127.0    1623.9   10141.6    1623.9   10154.0
 GR   1624.2   10164.6    1624.1   10176.6    1624.1   10186.3    1624.4   10195.2    1624.5   10206.3
 GR   1624.6   10220.0    1624.7   10231.3    1624.7   10246.2    1625.1   10259.3

 NC    0.080    0.080     0.050     0.0       0.0
 ET                       9.1                                                         9942.0   10062.0
N PT. 35

 X1   12.822      81     9976.5   10040.7    450.0     485.0     460.0      1.0       0.0         0
 GR   1630.3    9533.2    1630.3    9541.6    1630.2    9546.2    1629.9    9554.2    1628.8    9567.0
 GR   1628.5    9577.1    1628.5    9590.0    1628.4    9600.5    1627.7    9615.7    1628.1    9631.3
 GR   1628.2    9648.4    1628.5    9662.6    1628.7    9673.6    1628.4    9686.1    1628.3    9692.0
 GR   1627.8    9700.4    1628.3    9709.5    1628.1    9715.4    1627.8    9723.0    1627.8    9731.2
 GR   1628.1    9741.1    1628.0    9745.5    1627.4    9754.6    1627.4    9767.8    1627.3    9779.7
 GR   1627.3    9791.6    1627.2    9800.8    1627.5    9813.3    1627.8    9819.6    1627.2    9826.7
 GR   1626.9    9832.6    1627.4    9843.7    1627.5    9854.9    1627.7    9868.6    1627.6    9875.4
 GR   1627.5    9884.4    1627.6    9898.6    1627.7    9914.3    1627.8    9927.0    1627.8    9941.9
 GR   1627.1    9950.9    1625.6    9958.9    1626.7    9967.8    1626.8    9976.5    1625.1    9983.1
 GR   1622.4    9990.0    1620.3    9995.7    1620.5   10000.0    1620.5   10000.1    1620.7   10007.9
 GR   1621.3   10016.4    1622.0   10019.7    1625.6   10031.0    1627.1   10040.7    1627.2   10052.3
 GR   1627.3   10061.7    1627.3   10073.1    1627.2   10082.1    1627.2   10097.3    1627.3   10117.0
 GR   1627.3   10133.4    1627.2   10147.3    1627.3   10159.6    1628.0   10176.0    1628.3   10189.5
 GR   1628.5   10204.5    1628.4   10214.5    1627.7   10225.5    1627.4   10237.3    1627.5   10254.8
 GR   1627.5   10272.2    1627.4   10288.0    1627.4   10295.9    1627.3   10298.4    1628.0   10305.0
 GR   1627.0   10315.0    1628.0   10325.0    1628.4   10358.0    1627.8   10400.0    1628.0   10405.0
 GR   1630.0   10475.0

 ET                       9.1                                                         9920.0   10057.0
 X1   12.909      52     9921.6   10055.9    475.0     465.0     460.0      1.0       0.0         0
 GR   1634.8    9652.1    1634.7    9662.9    1634.0    9673.3    1632.5    9685.8    1631.4    9696.3
 GR   1630.9    9708.2    1630.7    9720.6    1630.0    9732.3    1630.7    9739.9    1630.9    9752.9
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GR   1631.1    9766.4   1630.8   9775.8   1630.6   9784.8   1630.7   9797.0   1630.6   9813.9
GR   1630.9    9838.1   1631.0   9871.5   1630.8   9895.0   1630.8   9908.1   1630.8   9921.6
GR   1630.2    9926.6   1625.7   9940.0   1625.7   9955.1   1626.5   9960.1   1626.4   9962.7
GR   1625.6    9968.3   1626.4   9974.9   1626.9   9981.4   1626.6   9987.4   1626.0   9991.4
GR   1625.0    9997.4   1624.8  10000.0   1624.8  10000.1   1625.3  10005.4   1626.2  10011.8
GR   1626.3   10017.7   1626.1  10023.1   1626.3  10028.5   1626.0  10031.6   1625.9  10034.8
GR   1627.9   10042.4   1630.3  10055.9   1630.5  10071.1   1630.5  10086.3   1630.9  10102.5
GR   1630.8   10114.1   1630.8  10120.0   1631.4  10133.1   1631.7  10149.6   1631.8  10166.5
GR   1631.9   10184.8   1631.9  10201.5

ET                        9.1                                                   9928.0  10054.0
X1   13.000       53    9929.2  10052.4    510.0    470.0    480.0      1.0      0.0       0
GR   1636.7    9805.9   1636.7   9810.1   1636.5   9813.7   1635.6   9824.6   1634.8   9839.5
GR   1634.4    9849.0   1634.2   9852.5   1634.8   9864.9   1635.2   9878.0   1635.2   9885.6
GR   1634.3    9892.8   1632.9   9897.8   1632.9   9903.3   1633.0   9910.9   1632.4   9919.0
GR   1633.2    9922.5   1634.0   9929.2   1633.3   9933.6   1632.0   9938.7   1630.8   9941.1
GR   1630.5    9946.2   1630.7   9960.5   1630.8   9976.3   1630.4   9992.0   1630.0  10000.0
GR   1630.0   10000.1   1629.8  10011.7   1630.6  10021.6   1631.6  10029.9   1631.8  10037.0
GR   1632.1   10041.2   1632.8  10045.7   1633.3  10052.4   1633.2  10055.5   1632.9  10058.1
GR   1633.0   10062.6   1633.4  10065.7   1635.0  10074.7   1635.4  10088.4   1635.2  10099.8
GR   1634.8   10109.7   1634.7  10118.0   1634.9  10124.5   1635.4  10136.3   1635.8  10148.8
GR   1635.9   10160.1   1636.0  10173.2   1635.8  10184.7   1635.7  10191.8   1636.4  10201.1
GR   1637.2   10213.8   1637.8  10227.5   1637.9  10240.8

NH       5      0.080   9889.1      0.050  10025.9      0.080  10051.9      0.050  10089.5      0.080
NH   10172.
ET                        9.1                                                   9888.0  10109.0
X1   13.079       41    9889.1  10025.9    430.0    425.0    420.0      1.0      0.0       0
GR   1641.6    9830.5   1640.9   9836.0   1637.5   9844.2   1636.9   9856.1   1636.7   9867.3
GR   1637.0    9875.2   1637.0   9889.1   1636.8   9895.5   1635.9   9901.7   1634.5   9909.1
GR   1634.8    9917.3   1635.3   9925.2   1635.2   9935.6   1634.8   9945.2   1634.8   9954.3
GR   1634.6    9965.0   1634.2   9975.5   1634.2   9984.6   1633.6   9991.6   1633.4  10000.0
GR   1633.4   10000.1   1633.4  10008.9   1633.7  10014.6   1636.2  10019.6   1637.2  10025.9
GR   1637.3   10035.3   1637.3  10043.8   1637.1  10051.9   1636.4  10058.3   1635.3  10064.6
GR   1633.4   10072.0   1633.3  10078.0   1633.5  10083.8   1636.5  10089.5   1637.9  10097.7
GR   1638.3   10106.1   1639.3  10118.4   1640.1  10131.9   1640.6  10146.2   1640.6  10157.7
GR   1640.6   10172.2

NC     0.080      0.080     0.060      0.0      0.0
ET                        9.1                                                   9932.0  10430.0
N PT. 34

X1   13.141       68    9968.7  10093.3    300.0    390.0    325.0      1.0      0.0       0
GR   1643.4    9893.0   1643.3   9913.3   1643.3   9919.9   1642.8   9925.0   1641.0   9932.6
GR   1639.6    9940.9   1639.5   9950.3   1639.5   9961.7   1639.5   9968.7   1639.4   9979.5
GR   1638.9    9984.7   1636.8   9992.0   1636.4  10000.0   1636.4  10000.1   1636.2  10008.4
GR   1636.5   10015.2   1636.7  10022.3   1636.9  10032.0   1636.8  10036.2   1637.3  10044.4
GR   1637.3   10049.4   1638.4  10056.9   1638.8  10063.5   1639.0  10070.9   1639.4  10078.1
GR   1640.3   10085.5   1640.6  10093.3   1640.5  10101.8   1640.5  10109.7   1641.0  10119.1
GR   1641.3   10129.1   1640.9  10138.5   1640.8  10147.7   1640.8  10160.2   1640.8  10173.4
GR   1640.7   10189.3   1640.4  10205.8   1640.5  10227.1   1640.7  10238.0   1640.8  10251.5
GR   1640.8   10261.6   1639.7  10267.4   1639.2  10273.2   1639.3  10281.1   1639.0  10287.4
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GR   1639.8   10294.6   1640.0   10303.4   1640.3   10320.4   1639.8   10330.7   1639.4   10342.1
GR   1639.0   10348.2   1639.0   10355.9   1639.4   10367.3   1639.7   10378.6   1639.7   10385.6
GR   1639.2   10391.3   1637.6   10397.7   1636.7   10401.3   1639.0   10408.1   1640.2   10417.4
GR   1641.3   10431.1   1641.5   10443.4   1642.1   10455.2   1642.7   10466.3   1643.0   10478.5
GR   1643.2   10490.5   1643.2   10507.6   1643.3   10521.5

ET                      9.1                                                       9979.0   10680.0
X1   13.223       97   9980.5   10086.8   450.0    425.0    435.0    1.0       0.0      0
GR   1645.5    9924.8   1645.4    9946.2   1645.3    9956.9   1645.3    9968.0   1644.9    9980.5
GR   1643.3    9984.1   1639.7    9986.5   1639.8    9993.8   1640.0   10000.0   1640.0   10008.2
GR   1640.3   10015.5   1640.9   10021.6   1641.5   10026.6   1641.7   10032.4   1641.3   10037.5
GR   1640.4   10042.5   1640.5   10059.8   1640.9   10064.2   1643.6   10069.8   1644.7   10078.5
GR   1644.8   10086.8   1643.0   10094.8   1642.8   10103.5   1642.7   10125.1   1642.4   10133.0
GR   1642.0   10143.1   1642.5   10152.0   1643.2   10162.0   1643.1   10172.7   1644.1   10182.1
GR   1645.1   10195.7   1645.1   10206.8   1644.8   10219.3   1644.8   10228.3   1644.1   10236.4
GR   1642.5   10244.5   1642.7   10252.4   1643.1   10264.3   1643.2   10268.0   1642.9   10293.6
GR   1642.4   10298.9   1641.5   10305.4   1641.9   10313.6   1643.5   10320.1   1644.2   10327.5
GR   1644.4   10335.8   1644.4   10343.3   1644.3   10352.4   1644.2   10368.7   1644.1   10382.6
GR   1644.0   10398.4   1643.8   10407.3   1643.5   10416.8   1643.5   10429.7   1643.5   10439.2
GR   1643.7   10450.1   1644.8   10458.7   1646.0   10471.1   1645.9   10476.1   1645.5   10485.7
GR   1644.9   10497.9   1644.9   10510.3   1645.1   10526.6   1645.1   10543.6   1644.8   10554.6
GR   1644.3   10565.4   1644.0   10575.3   1643.9   10586.0   1643.9   10598.0   1643.9   10610.3
GR   1644.0   10617.7   1643.7   10623.4   1643.1   10631.7   1641.6   10641.0   1640.8   10646.4
GR   1642.2   10653.0   1643.2   10664.0   1643.6   10677.8   1643.6   10686.0   1643.2   10696.9
GR   1642.8   10708.7   1642.9   10720.2   1642.9   10727.6   1643.0   10739.2   1642.9   10757.0
GR   1642.9   10770.7   1642.9   10795.7   1643.0   10812.7   1642.8   10816.9   1642.2   10824.8
GR   1642.7   10836.0   1643.4   10849.0   1644.4   10860.8   1644.4   10868.0   1644.4   10885.0
GR   1644.2   10904.5   1646.0   10985.0

NC   0.085    0.085     0.060    0.0       0.0
ET                      9.1                                                       9886.0   10607.0
N PT. 33

X1   13.286       95   9927.4   10053.8   400.0    295.0    330.0    1.0       0.0      0
GR   1648.2    9775.8   1648.2    9796.8   1648.2    9815.1   1648.2    9832.2   1648.0    9851.5
GR   1647.9    9868.2   1646.7    9885.0   1646.4    9889.8   1646.9    9900.3   1646.5    9914.4
GR   1646.5    9927.4   1645.7    9938.6   1643.7    9948.5   1643.5    9961.4   1643.1    9982.6
GR   1643.1   10000.0   1643.1   10000.1   1642.5   10007.4   1643.3   10014.0   1644.5   10022.0
GR   1645.1   10030.8   1645.7   10039.9   1646.7   10053.8   1646.7   10061.9   1645.8   10070.6
GR   1644.0   10078.5   1644.0   10084.6   1645.0   10095.0   1645.6   10115.7   1645.7   10127.8
GR   1645.9   10140.5   1645.9   10155.8   1645.8   10175.8   1645.7   10193.7   1645.6   10210.1
GR   1645.4   10227.1   1645.4   10241.2   1645.4   10253.5   1645.2   10266.7   1644.8   10278.6
GR   1644.8   10287.0   1645.0   10296.7   1644.9   10308.8   1644.9   10321.8   1644.7   10328.2
GR   1644.3   10335.2   1644.8   10343.3   1646.2   10354.2   1646.8   10365.3   1646.9   10374.4
GR   1646.6   10385.5   1646.3   10397.1   1645.9   10409.5   1645.6   10419.9   1645.2   10432.5
GR   1644.4   10444.2   1644.9   10456.4   1645.2   10471.7   1645.1   10488.7   1644.8   10502.5
GR   1644.0   10515.9   1641.8   10528.6   1641.9   10532.7   1643.4   10537.3   1645.0   10549.0
GR   1644.6   10557.6   1643.8   10569.5   1644.1   10577.2   1644.8   10583.6   1644.9   10606.5
GR   1644.7   10629.4   1644.4   10646.6   1644.1   10663.1   1643.8   10677.8   1644.2   10697.4
GR   1644.4   10712.0   1644.4   10728.6   1644.4   10746.8   1645.0   10762.3   1646.3   10778.9
GR   1646.5   10785.5   1646.2   10796.5   1646.2   10797.1   1646.0   10810.0   1646.3   10830.0
GR   1646.0   10840.0   1644.0   10870.0   1643.8   10875.0   1644.0   10880.0   1646.0   10890.0
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GR	1646.2	10910.0	1646.0	10930.0	1645.9	10935.0	1646.0	10940.0	1648.0	10970.0
ET		7.1	9.1					10533.0	9900.0	10360.0
X1	13.354	97	9932.1	10015.8	360.0	365.0	360.0	1.0	0.0	0
GR	1651.9	9871.2	1651.7	9879.9	1650.9	9885.3	1650.7	9892.0	1650.6	9897.4
GR	1650.2	9903.9	1649.7	9910.0	1649.5	9915.3	1649.5	9920.5	1649.5	9927.7
GR	1649.5	9932.1	1649.3	9936.4	1648.6	9942.1	1646.9	9948.9	1646.7	9959.0
GR	1645.9	9979.2	1645.9	9998.7	1646.3	10000.0	1646.3	10000.1	1647.1	10006.9
GR	1647.5	10009.5	1649.7	10015.8	1651.5	10027.0	1651.8	10037.6	1652.0	10045.1
GR	1652.0	10051.9	1651.1	10060.1	1650.9	10072.9	1650.8	10083.0	1651.0	10093.0
GR	1651.6	10100.5	1651.9	10104.3	1651.9	10109.7	1651.6	10117.8	1651.3	10126.5
GR	1651.2	10137.7	1651.1	10144.7	1650.9	10157.3	1650.7	10168.5	1650.6	10181.4
GR	1650.5	10194.0	1650.6	10204.1	1650.6	10211.9	1650.7	10217.5	1650.1	10226.1
GR	1649.9	10233.9	1649.8	10248.4	1649.6	10262.9	1649.9	10274.4	1649.8	10280.8
GR	1648.2	10286.7	1646.1	10292.0	1646.4	10298.2	1646.1	10301.1	1646.8	10305.9
GR	1649.5	10311.7	1649.6	10319.2	1649.6	10327.1	1649.5	10334.2	1649.6	10338.6
GR	1650.7	10348.0	1651.8	10359.0	1651.8	10364.0	1651.9	10371.6	1651.9	10375.8
GR	1651.2	10385.2	1651.2	10393.0	1651.2	10399.1	1650.7	10408.3	1650.3	10417.2
GR	1649.9	10424.3	1649.3	10431.9	1648.7	10437.5	1647.9	10442.7	1649.1	10450.2
GR	1650.1	10459.2	1650.2	10463.3	1650.0	10468.9	1649.3	10476.1	1649.5	10482.6
GR	1650.1	10489.8	1650.8	10497.1	1651.4	10507.6	1651.4	10516.5	1651.7	10527.4
GR	1651.8	10533.0	1651.4	10540.4	1651.0	10548.4	1650.9	10556.6	1650.6	10565.8
GR	1650.6	10565.9	1650.0	10590.0	1648.0	10710.0	1647.8	10715.0	1648.0	10720.0
GR	1650.0	10810.0	1651.6	10900.0						
ET		7.1	9.1				9740.0	10570.0	9920.0	10340.0
X1	13.435	71	9963.7	10056.7	430.0	440.0	430.0	1.0	0.0	0
GR	1654.2	9723.3	1654.4	9737.1	1654.5	9748.8	1654.2	9813.2	1654.1	9828.8
GR	1653.5	9842.2	1653.4	9855.0	1653.3	9864.0	1652.7	9877.3	1653.1	9890.0
GR	1653.4	9904.3	1654.1	9917.0	1654.1	9926.4	1653.1	9935.6	1652.4	9951.3
GR	1653.3	9958.3	1653.3	9963.7	1652.7	9970.0	1651.1	9978.5	1650.1	9983.6
GR	1649.0	9991.2	1648.3	10000.0	1648.3	10000.1	1648.3	10016.4	1648.3	10027.8
GR	1648.3	10040.3	1650.0	10046.7	1652.0	10056.7	1652.3	10068.3	1653.3	10077.5
GR	1654.0	10089.8	1654.0	10102.2	1653.8	10115.8	1653.6	10134.7	1653.3	10148.5
GR	1652.2	10163.7	1652.7	10175.6	1652.4	10180.8	1652.2	10190.4	1652.0	10198.4
GR	1651.0	10203.6	1649.7	10206.9	1650.7	10209.5	1652.9	10220.0	1653.4	10228.9
GR	1653.2	10238.3	1653.2	10251.6	1653.1	10265.7	1653.0	10280.5	1653.2	10290.8
GR	1653.5	10298.0	1654.1	10306.2	1654.3	10317.0	1654.5	10328.0	1654.9	10339.3
GR	1654.9	10344.5	1654.9	10344.6	1654.0	10355.0	1652.5	10410.0	1654.0	10430.0
GR	1654.3	10455.0	1654.0	10480.0	1653.8	10500.0	1654.0	10520.0	1655.1	10570.0
GR	1654.0	10630.0	1652.0	10695.0	1651.9	10700.0	1652.0	10705.0	1654.0	10720.0
GR	1655.2	10790.0								
ET		7.1	9.1				9800.0		9926.0	10310.0
X1	13.519	75	9961.6	10065.5	450.0	440.0	440.0	1.0	0.0	0
GR	1656.0	9755.0	1657.0	9799.7	1657.0	9812.4	1656.9	9826.7	1656.8	9838.9
GR	1656.8	9855.6	1656.7	9867.4	1656.8	9880.6	1657.0	9892.5	1657.1	9904.6
GR	1657.2	9917.8	1657.3	9926.5	1657.3	9926.6	1657.3	9926.7	1657.3	9926.8
GR	1657.0	9935.9	1656.3	9945.0	1655.6	9953.5	1655.4	9961.6	1654.5	9970.2
GR	1653.2	9978.9	1652.2	9984.3	1650.9	9988.2	1650.7	10000.0	1650.7	10000.1
GR	1650.5	10012.5	1650.6	10023.8	1651.0	10030.0	1653.7	10038.4	1656.8	10055.2
GR	1657.6	10065.5	1657.7	10074.3	1657.5	10083.6	1657.5	10091.2	1657.5	10098.7

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 GR   1656.9   10111.7   1656.4   10123.2   1655.5   10133.3   1655.0   10141.7   1654.5   10148.9
 GR   1655.0   10156.3   1655.7   10167.3   1655.9   10176.2   1655.5   10185.8   1654.4   10190.2
 GR   1654.2   10195.9   1655.4   10199.3   1656.4   10207.6   1656.4   10212.8   1655.9   10218.8
 GR   1655.4   10224.6   1655.7   10234.0   1655.7   10252.5   1655.7   10270.1   1655.4   10283.1
 GR   1655.6   10295.0   1655.6   10302.0   1655.5   10327.5   1655.4   10343.8   1656.0   10358.1
 GR   1656.5   10374.9   1657.0   10388.0   1657.0   10401.4   1657.0   10415.3   1657.5   10432.7
 GR   1657.7   10448.9   1657.8   10467.2   1657.9   10487.4   1657.7   10508.6   1657.8   10521.3
 GR   1658.0   10539.3   1658.4   10557.2   1659.1   10570.8   1659.3   10584.6   1659.4   10604.7

 NC    0.085      0.085    0.055       0.0       0.0
 ET                 7.1      9.1                                9830.0                9897.0   10200.0
N PT. 603

 X1   13.603         64   9965.1   10057.5     450.0     575.0     445.0       1.0       0.0         0
 GR   1659.3     9781.2   1659.5    9789.7    1659.0    9801.6    1659.2    9809.4    1659.8    9823.9
 GR   1659.6     9836.0   1659.3    9848.3    1659.4    9863.1    1659.6    9874.4    1660.0    9887.0
 GR   1660.3     9897.4   1660.2    9912.1    1660.0    9922.1    1659.2    9929.4    1657.9    9937.7
 GR   1657.1     9946.4   1656.9    9957.8    1656.9    9965.1    1656.6    9969.6    1652.4    9974.7
 GR   1652.7     9984.8   1652.7    9995.5    1653.1   10000.0    1653.1   10000.1    1653.7   10011.3
 GR   1653.9    10020.6   1654.3   10025.4    1657.3   10037.0    1659.5   10051.0    1659.7   10057.5
 GR   1659.0    10065.9   1658.9   10076.5    1659.8   10086.6    1660.2   10091.7    1659.9   10098.5
 GR   1659.7    10107.8   1659.6   10121.4    1659.9   10130.1    1659.2   10136.5    1658.3   10147.5
 GR   1658.6    10155.6   1658.9   10164.0    1659.0   10171.8    1657.9   10178.2    1658.3   10183.0
 GR   1659.0    10190.2   1659.1   10201.3    1659.3   10216.6    1659.3   10230.8    1659.0   10242.7
 GR   1659.6    10255.4   1659.9   10268.6    1659.8   10282.8    1660.0   10295.5    1660.5   10315.0
 GR   1660.5    10323.7   1660.0   10340.0    1659.8   10380.0    1660.0   10400.0    1660.2   10440.0
 GR   1660.0    10485.0   1659.8   10500.0    1660.0   10515.0    1662.0   10600.0

 NC    0.080      0.090    0.055       0.0       0.0
 ET                 7.1      9.1                                9816.9                9880.0   10310.0
N PT. 30

 X1   13.691         59   9930.9   10033.1     440.0     510.0     465.0       1.0       0.0         0
 GR   1661.4     9701.5   1661.4    9715.8    1661.4    9739.0    1661.3    9767.7    1661.4    9795.6
 GR   1662.3     9816.9   1662.1    9837.9    1662.3    9852.5    1662.0    9865.7    1662.0    9876.8
 GR   1662.0     9892.7   1661.8    9903.0    1662.1    9913.1    1662.1    9920.4    1661.6    9930.9
 GR   1660.6     9940.6   1658.9    9949.1    1657.4    9958.5    1656.3    9983.1    1656.2    9994.2
 GR   1655.9     9998.7   1656.2   10000.0    1656.2   10000.1    1657.8   10005.9    1660.1   10011.8
 GR   1662.1    10021.8   1662.5   10033.1    1661.9   10043.9    1661.6   10051.5    1662.6   10057.9
 GR   1662.7    10069.6   1662.3   10083.8    1662.1   10091.8    1661.9   10096.3    1662.2   10110.8
 GR   1662.5    10122.3   1662.8   10146.8    1662.9   10175.6    1662.9   10184.3    1662.9   10204.4
 GR   1663.0    10221.5   1663.1   10237.4    1662.9   10249.3    1662.9   10257.1    1662.3   10280.0
 GR   1664.0    10320.0   1664.5   10380.0    1664.0   10455.0    1662.0   10460.0    1661.0   10465.0
 GR   1662.0    10470.0   1662.1   10480.0    1661.9   10490.0    1664.0   10530.0    1666.0   10590.0
 GR   1665.8    10620.0   1666.0   10640.0    1667.0   10690.0    1666.0   10730.0

 ET                         9.1                                                         9948.0   10415.0
 X1   13.761         48   9958.7   10068.2     395.0     350.0     370.0       1.0       0.0         0
 GR   1666.1     9660.0   1666.0    9665.0    1665.0    9700.0    1665.5    9740.0    1665.2    9780.0
 GR   1665.4     9800.0   1665.3    9820.0    1666.0    9900.0    1666.1    9925.0    1666.0    9938.9
 GR   1666.1     9948.4   1665.6    9958.7    1663.8    9968.3    1662.6    9976.5    1659.4   10000.0
 GR   1659.5    10000.2   1659.9   10011.1    1659.9   10021.1    1659.8   10031.3    1659.9   10035.5
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GR   1661.1   10044.4   1662.2   10056.5   1663.1   10068.2   1663.3   10080.9   1663.0   10091.2
GR   1663.2   10100.0   1664.3   10109.4   1665.1   10122.2   1665.3   10134.1   1665.5   10144.5
GR   1665.5   10157.3   1665.6   10166.6   1665.3   10285.0   1666.0   10385.0   1666.3   10415.0
GR   1666.0   10440.0   1665.9   10460.0   1666.0   10475.0   1665.8   10515.0   1666.0   10565.0
GR   1664.0   10630.0   1663.2   10640.0   1664.0   10650.0   1666.0   10700.0   1665.0   10780.0
GR   1666.0   10810.0   1668.0   10940.0   1668.4   10960.0

NC    0.080     0.080    0.050      0.0       0.0
ET                       9.1                                                    9944.0   10525.0
N PT. 29

X1   13.841        52   9961.4   10032.1    450.0     375.0    420.0      1.0      0.0        0
GR   1668.7    9843.0   1668.6    9855.4   1668.6    9870.5   1668.7    9881.3   1668.8    9888.3
GR   1668.6    9896.8   1668.3    9905.3   1668.4    9915.9   1668.7    9926.6   1668.8    9936.2
GR   1670.0    9942.1   1670.0    9944.2   1669.6    9952.1   1669.2    9961.4   1667.9    9970.2
GR   1664.6    9977.6   1662.2    9983.3   1662.3    9989.0   1662.6    9995.4   1662.7   10000.0
GR   1662.7   10000.1   1663.1   10007.1   1664.3   10011.8   1666.5   10017.0   1668.2   10023.7
GR   1669.3   10032.1   1669.7   10041.6   1669.7   10049.7   1669.7   10056.9   1669.1   10067.3
GR   1669.2   10080.6   1669.2   10093.9   1669.0   10105.4   1669.0   10117.1   1669.0   10131.1
GR   1668.8   10142.4   1668.8   10159.9   1668.6   10169.7   1668.6   10174.5   1668.9   10182.1
GR   1668.9   10183.3   1667.0   10270.0   1667.5   10350.0   1666.8   10430.0   1668.0   10525.0
GR   1666.0   10700.0   1665.4   10705.0   1666.0   10720.0   1668.0   10870.0   1667.9   10910.0
GR   1668.0   10920.0   1670.0   11010.0

NC    0.070     0.070    0.055      0.0       0.0
ET                 7.1    9.1                          9730.0                   9821.0   10360.0
N PT. 28; NEAR LONE MTN. ROAD

X1   13.912        66   9966.8   10057.4    355.0     385.0    375.0      1.0      0.0        0
GR   1670.7    9677.3   1670.7    9700.3   1670.6    9713.0   1670.7    9723.5   1670.9    9736.2
GR   1670.9    9753.0   1670.8    9769.2   1670.8    9789.8   1670.9    9807.2   1671.0    9821.0
GR   1671.1    9839.1   1671.1    9844.5   1670.2    9851.6   1667.3    9860.0   1667.8    9866.8
GR   1669.4    9873.3   1669.9    9878.0   1669.7    9886.3   1669.6    9894.1   1669.6    9905.0
GR   1669.4    9915.0   1669.2    9932.7   1668.5    9938.9   1667.9    9944.0   1668.7    9951.4
GR   1669.1    9966.8   1668.7    9972.3   1667.7    9980.9   1667.3    9992.1   1667.1   10000.0
GR   1667.1   10000.1   1667.3   10011.5   1667.6   10020.5   1667.7   10025.6   1667.5   10031.2
GR   1667.2   10037.8   1667.5   10043.2   1668.2   10050.2   1669.7   10057.4   1670.5   10065.0
GR   1671.1   10079.3   1671.3   10086.0   1670.9   10096.9   1670.8   10106.7   1670.9   10119.7
GR   1671.1   10133.4   1671.0   10144.8   1670.9   10156.3   1670.7   10168.7   1670.7   10169.4
GR   1670.0   10185.0   1669.7   10190.0   1670.0   10195.0   1670.2   10235.0   1670.0   10260.0
GR   1669.5   10285.0   1669.8   10300.0   1669.8   10350.0   1669.4   10500.0   1670.0   10540.0
GR   1671.2   10600.0   1672.0   10620.0   1672.3   10650.0   1672.0   10740.0   1673.2   10825.0
GR   1672.0   10940.0

NC    0.070     0.070    0.050      0.0       0.0
ET                       9.1                                                    9912.0   10325.0
X1   13.987        93   9922.5   10056.6    400.0     415.0    400.0      1.0      0.0        0
GR   1674.2    9480.3   1674.3    9498.2   1674.3    9512.8   1674.4    9525.6   1674.2    9537.2
GR   1674.1    9546.4   1674.1    9561.8   1674.2    9576.8   1674.2    9592.6   1674.2    9606.4
GR   1674.1    9620.2   1674.1    9634.3   1674.1    9644.2   1674.2    9656.2   1674.1    9666.9
GR   1673.6    9677.2   1673.4    9685.8   1673.3    9696.1   1673.3    9705.7   1673.6    9715.9
GR   1673.6    9728.9   1673.5    9737.7   1673.2    9746.9   1673.3    9757.2   1673.4    9774.0
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GR   1673.4    9789.2   1673.6   9803.2   1673.6   9811.4   1673.4   9821.6   1673.4   9831.2
GR   1673.5    9842.6   1673.5   9863.6   1673.9   9881.1   1674.0   9897.4   1674.1   9911.8
GR   1674.0    9922.5   1673.1   9932.6   1672.6   9942.3   1672.1   9950.9   1671.3   9959.7
GR   1670.2    9970.3   1669.3   9986.1   1668.7   9997.9   1668.8  10000.0   1668.8  10000.1
GR   1668.9   10007.3   1669.9  10014.0   1670.0  10016.0   1670.2  10021.4   1671.9  10026.5
GR   1673.5   10035.5   1674.0  10045.5   1674.2  10056.6   1673.8  10070.8   1673.8  10079.1
GR   1673.8   10093.1   1673.9  10104.9   1673.6  10117.0   1673.6  10126.2   1673.6  10139.9
GR   1673.5   10159.0   1673.4  10182.4   1672.9  10198.5   1672.4  10210.0   1672.6  10216.3
GR   1673.1   10231.5   1673.2  10242.0   1672.9  10251.1   1672.6  10257.5   1673.0  10268.0
GR   1672.8   10282.0   1673.2  10296.4   1673.2  10302.8   1672.8  10313.1   1673.6  10324.6
GR   1673.2   10336.9   1673.4  10349.1   1673.1  10365.7   1673.1  10386.0   1673.2  10413.9
GR   1673.1   10450.5   1672.8  10482.8   1672.7  10505.3   1672.9  10526.6   1673.0  10537.8
GR   1674.0   10630.0   1674.3  10670.0   1674.0  10700.0   1673.5  10720.0   1674.0  10750.0
GR   1674.0   10780.0   1674.6  10815.0   1674.7  10930.0

ET                        9.1                                                   9911.0  10370.0
X1   14.076       55    9987.4  10080.2    480.0    470.0    470.0      1.0      0.0      0
GR   1679.2    9865.1   1679.1   9886.4   1679.1   9896.8   1678.5   9906.7   1676.9   9916.6
GR   1676.7    9926.4   1676.7   9936.3   1676.5   9953.1   1676.2   9961.2   1675.8   9970.1
GR   1676.2    9978.0   1676.9   9984.4   1676.8   9987.4   1672.6   9995.0   1672.3  10000.0
GR   1672.3   10000.1   1672.3  10013.9   1672.4  10033.1   1672.8  10041.0   1673.4  10047.6
GR   1674.8   10053.8   1676.3  10063.0   1676.8  10071.8   1677.1  10080.2   1676.5  10086.0
GR   1676.5   10093.9   1677.1  10109.2   1677.5  10121.5   1676.9  10132.6   1676.6  10142.8
GR   1676.4   10155.6   1676.5  10169.0   1676.5  10184.2   1675.9  10197.5   1675.9  10207.9
GR   1676.2   10225.3   1676.3  10243.5   1676.4  10262.9   1676.1  10274.3   1676.4  10287.9
GR   1676.6   10307.1   1676.6  10318.5   1676.0  10324.5   1676.0  10324.6   1676.0  10340.0
GR   1675.5   10345.0   1676.0  10350.0   1677.0  10410.0   1676.0  10535.0   1678.0  10610.0
GR   1678.5   10625.0   1678.0  10640.0   1677.2  10850.0   1678.0  10900.0   1678.6  10940.0

ET                        9.1                                                   9878.0  10330.0
X1   14.126       57    9972.4  10059.4    275.0    250.0    260.0      1.0      0.0      0
GR   1681.4    9858.0   1679.0   9882.6   1678.6   9895.1   1678.7   9901.2   1678.5   9909.8
GR   1677.5    9917.2   1676.9   9924.0   1677.2   9932.5   1677.0   9941.5   1676.7   9948.8
GR   1677.0    9961.3   1677.1   9972.4   1676.6   9980.0   1674.6   9989.9   1673.8  10000.0
GR   1673.8   10000.1   1673.8  10022.3   1674.0  10028.9   1675.9  10037.0   1676.8  10042.0
GR   1677.6   10048.7   1679.2  10059.4   1678.4  10063.6   1677.9  10070.7   1678.2  10081.8
GR   1678.5   10095.8   1678.8  10107.6   1678.8  10112.8   1678.1  10119.2   1678.5  10127.5
GR   1678.8   10133.5   1678.4  10136.6   1678.7  10144.0   1679.0  10156.6   1678.9  10164.6
GR   1678.2   10169.4   1678.2  10179.2   1678.4  10188.1   1678.2  10197.1   1678.4  10211.0
GR   1678.5   10223.4   1678.4  10234.9   1678.4  10249.0   1678.4  10260.7   1678.5  10272.6
GR   1678.5   10272.7   1678.0  10290.0   1677.1  10300.0   1678.0  10310.0   1679.1  10355.0
GR   1679.2   10410.0   1679.5  10475.0   1678.0  10550.0   1677.6  10555.0   1678.0  10600.0
GR   1680.0   10685.0   1680.4  10710.0

NC    0.070    0.070    0.055      0.0      0.0
ET                        9.1                                                   9861.0  10200.0
X1   14.197       76    9918.2  10057.3    380.0    370.0    375.0      1.0      0.0      0
GR   1684.5    9748.7   1683.4   9787.9   1682.7   9796.1   1681.8   9804.6   1681.2   9811.4
GR   1681.4    9815.6   1681.8   9819.6   1682.6   9828.9   1682.6   9836.1   1682.0   9844.0
GR   1681.8    9850.4   1682.7   9860.5   1682.7   9867.5   1682.5   9873.2   1682.1   9882.5
GR   1681.7    9888.8   1681.9   9894.8   1681.9   9902.4   1681.8   9911.8   1681.9   9918.2
GR   1681.7    9921.4   1680.5   9928.7   1680.1   9935.5   1679.1   9940.1   1677.3   9944.9
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GR   1677.0    9961.0   1679.0    9966.7   1679.2    9967.8   1679.2    9973.1   1678.1    9980.6
GR   1677.8    9990.1   1677.4    9999.8   1677.5   10000.0   1677.5   10000.1   1677.7   10010.7
GR   1677.8   10018.4   1678.4   10023.8   1680.2   10032.7   1681.3   10046.1   1681.6   10057.3
GR   1682.2   10073.4   1682.8   10083.2   1682.8   10091.4   1682.3   10100.2   1682.3   10107.1
GR   1682.3   10117.5   1682.3   10127.4   1682.2   10137.4   1682.3   10145.4   1682.0   10149.7
GR   1681.6   10155.3   1681.6   10167.6   1682.5   10172.6   1682.5   10181.8   1682.3   10193.7
GR   1682.4   10201.5   1682.1   10211.3   1682.0   10227.9   1682.1   10241.9   1682.2   10252.6
GR   1682.1   10265.5   1682.1   10274.9   1682.1   10291.7   1681.8   10323.7   1682.3   10388.0
GR   1682.0   10430.0   1682.0   10480.0   1682.2   10520.0   1682.0   10560.0   1681.0   10674.0
GR   1681.5   10710.0   1681.2   10770.0   1681.6   10840.0   1681.3   10875.0   1682.0   10900.0
GR   1683.1   10960.0

NC    0.080    0.080    0.050       0.0       0.0
QT        2   3322.0   3322.0
ET               7.1      9.1                                9762.3   10165.4    9766.0   10150.0
N PT. 27 - Q=3322 CFS FROM FCD

X1   14.310       70   9974.7   10032.7     600.0     690.0     600.0       1.0       0.0        0
GR   1680.1    9604.0   1679.9    9617.0   1680.7    9621.9   1683.7    9630.9   1684.0    9634.3
GR   1684.4    9641.4   1684.6    9652.8   1685.2    9664.3   1684.5    9671.7   1684.3    9683.2
GR   1684.7    9694.5   1685.1    9708.6   1685.6    9726.9   1686.6    9743.8   1687.7    9754.0
GR   1688.2    9762.3   1686.2    9793.2   1686.0    9805.9   1685.7    9817.1   1685.3    9828.2
GR   1685.8    9838.9   1686.1    9850.8   1686.2    9865.3   1686.2    9881.7   1685.2    9893.2
GR   1685.5    9903.2   1686.5    9916.3   1686.6    9931.5   1686.7    9943.7   1686.3    9956.1
GR   1685.9    9967.5   1686.0    9974.7   1685.8    9979.1   1682.0    9989.0   1681.7    9996.0
GR   1681.6   10000.0   1681.6   10000.1   1681.7   10008.3   1683.3   10013.3   1685.6   10025.0
GR   1686.9   10032.7   1687.0   10043.3   1686.9   10055.4   1686.9   10066.6   1687.0   10081.1
GR   1686.6   10091.2   1685.7   10097.3   1686.5   10105.8   1686.7   10113.3   1685.9   10121.0
GR   1685.2   10127.1   1686.1   10134.0   1686.9   10144.9   1687.5   10156.0   1688.1   10165.4
GR   1688.0   10176.8   1687.9   10190.2   1687.8   10203.5   1687.8   10223.3   1687.5   10242.1
GR   1687.3   10257.8   1687.1   10272.6   1686.8   10293.8   1686.8   10305.6   1686.9   10322.3
GR   1686.8   10341.3   1686.9   10359.7   1686.8   10374.0   1686.7   10390.9   1686.7   10406.5

NC    0.085    0.085    0.050       0.0       0.0
ET               7.1      9.1                                9767.3   10200.0    9898.0   10199.0
N PT. 26

X1   14.396       62   9968.8   10036.1     465.0     430.0     455.0       1.0       0.0        0
GR   1683.9    9615.0   1686.0    9625.0   1688.0    9675.0   1690.0    9720.0   1690.6    9767.3
GR   1689.7    9780.4   1689.3    9791.3   1689.2    9802.2   1689.1    9813.7   1689.1    9826.5
GR   1689.5    9843.3   1689.8    9859.8   1690.2    9874.5   1690.5    9886.3   1691.0    9897.4
GR   1691.0    9897.5   1691.0    9897.6   1691.0    9897.7   1690.9    9908.5   1690.6    9918.0
GR   1689.7    9929.5   1689.3    9938.5   1688.5    9944.9   1689.0    9950.3   1689.7    9957.0
GR   1689.4    9968.8   1688.2    9977.3   1685.9    9984.1   1685.0    9993.0   1684.8   10000.0
GR   1685.0   10000.1   1685.0   10000.2   1685.3   10007.9   1685.7   10017.3   1687.7   10025.6
GR   1689.2   10036.1   1689.8   10050.6   1689.8   10059.9   1690.3   10072.8   1690.3   10084.5
GR   1690.4   10096.7   1690.3   10111.6   1689.8   10124.3   1690.0   10133.8   1689.9   10141.7
GR   1688.9   10152.4   1689.3   10161.8   1690.1   10174.3   1690.6   10187.8   1691.1   10199.3
GR   1691.1   10211.2   1691.3   10228.3   1691.2   10240.6   1691.2   10258.7   1691.3   10273.3
GR   1691.2   10287.8   1691.1   10303.3   1691.1   10317.9   1690.7   10329.6   1690.8   10340.8
GR   1690.4   10353.9   1690.6   10366.7
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ET                      9.1                                                     9881.0    10041.0
X1   14.481       61    9924.3   10024.6    465.0    400.0    445.0     1.0      0.0         0
GR   1696.7   9568.4    1696.7    9580.8   1696.7   9594.8   1696.1  9608.7   1695.1    9621.2
GR   1694.6   9636.1    1694.1    9648.7   1693.8   9660.2   1693.2  9667.0   1693.9    9674.2
GR   1694.0   9678.4    1693.4    9686.3   1693.3   9696.6   1693.2  9708.8   1693.2    9720.0
GR   1694.0   9730.3    1694.0    9739.8   1693.9   9746.1   1693.0  9754.8   1691.9    9762.8
GR   1693.1   9770.0    1693.7    9779.3   1694.0   9788.5   1693.7  9797.4   1693.4    9808.9
GR   1693.2   9821.1    1693.1    9830.2   1691.9   9839.5   1692.2  9846.2   1693.3    9857.4
GR   1693.8   9867.4    1693.8    9880.7   1693.7   9895.6   1693.7  9904.9   1693.8    9916.3
GR   1693.7   9924.3    1693.1    9931.8   1691.9   9938.8   1691.5  9945.5   1691.5    9955.1
GR   1691.5   9960.6    1690.5    9969.8   1689.6   9979.0   1689.0  9988.8   1688.7   10000.0
GR   1688.7  10000.1    1688.8   10006.3   1689.5  10008.6   1692.0 10013.1   1694.2   10024.6
GR   1694.5  10040.6    1694.2   10054.0   1694.0  10064.5   1694.1 10090.2   1694.0   10115.0
GR   1693.4  10205.2    1692.8   10285.3   1693.3  10297.4   1693.0 10311.5   1694.0   10337.6
GR   1696.0  10445.8

ET                      9.1                                                     9909.0    10069.0
X1   14.569       53    9934.7   10035.3    450.0    485.0    465.0     1.0      0.0         0
GR   1699.2   9613.3    1698.5    9662.1   1698.2   9674.2   1697.8  9688.0   1698.1    9702.4
GR   1698.2   9717.1    1698.2    9735.2   1697.8   9751.4   1697.4  9764.2   1697.6    9776.8
GR   1697.2   9790.5    1697.0    9806.7   1696.7   9825.6   1696.2  9843.0   1696.2    9857.9
GR   1696.8   9873.5    1696.9    9892.6   1697.0   9909.2   1696.8  9923.5   1697.2    9934.7
GR   1696.8   9941.9    1696.3    9954.3   1695.7   9967.5   1694.2  9975.8   1693.0    9987.7
GR   1692.0   9998.5    1691.6   10000.0   1691.6  10000.1   1691.7 10006.9   1692.4   10011.0
GR   1695.3  10017.9    1695.6   10021.9   1694.6  10025.6   1694.7 10030.1   1696.3   10035.3
GR   1696.3  10047.6    1696.6   10068.7   1696.6  10083.4   1696.9 10101.3   1696.9   10119.7
GR   1697.1  10129.8    1696.8   10141.5   1696.6  10154.2   1696.5 10170.4   1697.1   10188.8
GR   1697.1  10197.4    1697.3   10209.2   1697.7  10225.5   1698.2 10239.6   1698.9   10255.8
GR   1699.1  10269.7    1700.7   10284.9   1700.7  10299.0

NC    0.085    0.085     0.050       0.0       0.0
ET                      9.1                                                     9932.0    10088.0
N PT. 25

X1   14.656       50    9973.0   10043.3    460.0    475.0    460.0     1.0      0.0         0
GR   1704.4   9819.9    1704.0    9833.9   1703.7   9851.8   1703.7  9870.1   1703.1    9889.7
GR   1701.7   9904.6    1701.0    9915.7   1700.6   9932.3   1699.8  9943.5   1699.5    9961.3
GR   1699.6   9973.0    1699.4    9981.6   1698.0   9988.7   1695.9  9995.3   1695.4   10000.0
GR   1695.4  10000.1    1695.5   10007.4   1695.7  10015.1   1695.3 10024.3   1696.0   10030.4
GR   1699.4  10036.4    1700.6   10043.3   1700.6  10051.9   1699.7 10059.9   1699.8   10070.5
GR   1700.7  10088.4    1701.0   10111.4   1701.1  10128.5   1701.2 10140.3   1701.3   10156.7
GR   1701.2  10168.1    1700.7   10178.9   1700.3  10185.6   1699.1 10191.1   1699.9   10195.3
GR   1700.9  10204.4    1701.0   10209.5   1700.9  10212.7   1701.3 10224.5   1701.6   10238.4
GR   1701.9  10253.0    1701.5   10260.3   1701.7  10267.6   1701.8 10280.9   1702.0   10295.4
GR   1702.9  10307.6    1704.4   10322.3   1705.4  10338.4   1705.7 10348.2   1705.6   10358.3

NC    0.085    0.085     0.050       0.0       0.0
ET                      9.1                                                     9964.0    10113.0
N PT. 24

X1   14.711       54    9971.3   10103.5    305.0    260.0    290.0     1.0      0.0         0
GR   1705.7   9778.4    1703.5    9813.8   1702.8   9825.5   1702.7  9832.4   1702.7    9846.7
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GR   1702.5    9855.2   1703.1   9863.6   1702.9   9869.0   1698.1   9877.7   1698.3   9881.1
GR   1700.0    9883.6   1701.6   9889.0   1702.4   9896.8   1701.7   9903.0   1700.4   9908.2
GR   1701.3    9918.1   1702.4   9932.7   1702.8   9955.3   1702.8   9963.7   1702.4   9971.3
GR   1702.0    9980.5   1698.1   9994.3   1698.0   9999.9   1698.2  10000.0   1698.2  10000.1
GR   1698.2   10007.0   1698.9  10012.7   1700.7  10019.4   1701.1  10029.4   1701.2  10039.5
GR   1701.2   10047.9   1700.5  10056.0   1699.8  10060.3   1700.5  10065.7   1700.1  10068.9
GR   1698.8   10075.5   1698.0  10088.1   1698.2  10092.0   1700.7  10099.3   1702.3  10103.5
GR   1702.7   10112.6   1702.7  10129.8   1702.5  10141.1   1702.7  10156.9   1702.7  10186.1
GR   1702.7   10210.5   1702.7  10225.3   1702.2  10243.7   1701.9  10247.3   1702.4  10259.5
GR   1702.4   10272.1   1702.3  10280.2   1704.0  10310.0   1705.0  10370.0

NH       5      0.085   9960.1      0.050  10011.4      0.085  10055.4      0.050  10091.8      0.085
NH   10487.
ET                        9.1                                                      9938.0     10102.0
N PT. 23; "ISLAND"

X1   14.754        87   9939.6  10035.8    225.0    255.0    230.0      1.0      0.0        0
GR   1709.2    9505.3   1709.4   9521.9   1709.4   9538.5   1709.5   9555.8   1709.5   9569.7
GR   1709.0    9583.9   1708.1   9595.1   1708.3   9604.7   1708.6   9611.3   1708.7   9623.2
GR   1708.6    9635.7   1708.1   9647.4   1706.3   9658.3   1705.7   9671.6   1705.2   9680.6
GR   1704.8    9693.1   1704.8   9704.9   1703.7   9715.2   1703.0   9718.8   1703.3   9720.4
GR   1704.1    9728.3   1704.3   9738.1   1704.4   9744.6   1704.5   9751.0   1704.0   9755.9
GR   1700.8    9763.6   1701.6   9766.1   1703.8   9771.4   1704.9   9775.8   1705.0   9783.4
GR   1705.0    9793.7   1704.8   9802.9   1704.6   9822.3   1704.0   9833.2   1704.3   9841.3
GR   1704.5    9854.7   1704.4   9866.2   1704.6   9880.8   1704.5   9893.3   1704.5   9904.8
GR   1704.6    9918.9   1704.7   9931.1   1704.9   9939.6   1704.2   9950.6   1702.9   9960.1
GR   1701.3    9966.1   1702.0   9972.3   1703.1   9978.0   1702.8   9982.6   1700.3   9987.6
GR   1700.3    9996.4   1700.0  10000.0   1700.0  10000.1   1700.5  10008.0   1700.8  10011.4
GR   1703.3   10018.0   1704.2  10026.4   1704.7  10035.8   1704.7  10045.5   1704.2  10055.4
GR   1703.3   10064.0   1704.1  10070.6   1704.1  10075.7   1703.6  10084.6   1704.4  10091.8
GR   1704.5   10102.4   1704.6  10114.9   1704.6  10128.8   1704.5  10141.9   1704.6  10150.9
GR   1704.9   10164.4   1705.1  10176.4   1705.4  10193.8   1705.3  10214.1   1705.0  10233.0
GR   1705.1   10258.3   1705.0  10280.0   1705.1  10315.3   1705.1  10348.2   1705.3  10363.1
GR   1705.3   10389.0   1705.3  10413.2   1705.9  10428.2   1706.6  10444.5   1706.9  10462.4
GR   1707.1   10484.8   1707.1  10487.0

NC     0.085      0.085      0.050      0.0        0.0
ET                        9.1                                                      9883.0     10115.0
N VALUES MODIFIED FROM PT. 23, SECTION 68

X1   14.845        69   9905.5  10033.6    480.0    500.0    480.0      1.0      0.0        0
GR   1711.9    9459.8   1711.3   9480.3   1710.5   9491.4   1710.2   9505.6   1709.4   9520.7
GR   1709.3    9533.5   1709.0   9548.4   1709.0   9566.6   1708.7   9582.3   1708.5   9597.2
GR   1708.1    9607.5   1707.4   9618.3   1707.7   9623.9   1707.8   9631.9   1708.1   9650.5
GR   1708.3    9664.4   1707.9   9678.1   1708.2   9685.7   1708.1   9689.4   1706.7   9696.7
GR   1707.7    9702.8   1708.5   9712.8   1708.6   9726.0   1708.6   9749.1   1708.7   9766.7
GR   1708.8    9787.7   1708.9   9814.2   1709.0   9835.1   1708.0   9853.1   1707.9   9870.4
GR   1707.9    9887.3   1707.8   9905.5   1707.0   9922.1   1705.6   9935.0   1705.7   9941.5
GR   1707.1    9947.9   1707.8   9959.5   1707.8   9969.6   1707.5   9979.1   1703.9   9991.4
GR   1703.9   10000.0   1703.9  10000.1   1703.9  10000.2   1704.8  10012.8   1705.6  10020.7
GR   1706.6   10028.0   1707.3  10033.6   1707.0  10039.5   1705.8  10046.2   1706.6  10052.6
GR   1707.4   10064.5   1708.0  10081.0   1708.2  10100.5   1708.3  10115.1   1708.9  10135.3
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GR   1709.3   10149.9   1708.9   10167.0   1708.6   10180.8   1708.3   10195.9   1707.9   10202.6
GR   1708.5   10211.2   1709.5   10223.4   1710.0   10236.9   1710.2   10251.7   1710.3   10264.7
GR   1710.7   10280.4   1711.0   10294.8   1711.6   10307.2   1712.0   10315.2

NC    0.080    0.080    0.050     0.0      0.0
ET                       9.1                                                     9883.0   10076.0
N PT. 22

X1   14.937      53    9939.7   10028.1   500.0    480.0    485.0     1.0       0.0      0
GR   1717.2   9612.3   1716.5    9620.3   1715.4   9630.9   1714.5   9641.4   1713.6   9651.7
GR   1713.6   9664.4   1713.8    9674.1   1714.4   9685.3   1714.9   9696.5   1714.9   9706.0
GR   1714.2   9716.2   1713.8    9726.9   1713.4   9741.4   1712.5   9755.4   1711.1   9765.1
GR   1711.6   9769.6   1712.7    9776.2   1712.3   9782.5   1710.7   9788.1   1711.4   9793.8
GR   1712.8   9803.3   1711.1    9868.6   1710.2   9873.9   1711.8   9882.6   1711.4   9896.2
GR   1711.1   9907.1   1711.6    9920.6   1711.7   9932.7   1712.3   9939.7   1711.6   9948.2
GR   1709.8   9958.4   1709.8    9967.2   1710.0   9974.6   1708.9   9982.8   1707.6   9991.1
GR   1707.6   9999.9   1707.3   10000.0   1707.3   10000.1   1707.5   10009.0   1709.3   10017.6
GR   1711.3   10028.1   1710.9   10032.4   1709.5   10040.6   1710.8   10048.7   1711.2   10061.5
GR   1712.1   10075.6   1713.6   10096.0   1713.6   10103.8   1713.1   10111.4   1713.5   10124.4
GR   1714.0   10138.9   1714.8   10152.8   1714.8   10165.7

ET                       9.1                                                     9883.0   10111.0
X1   14.976      46    9955.0   10035.9   205.0    225.0    205.0     1.0       0.0      0
GR   1718.4   9637.2   1718.4    9644.8   1717.9   9655.4   1716.9   9666.2   1716.4   9677.9
GR   1714.3   9691.0   1713.4    9705.0   1713.4   9718.4   1713.2   9731.9   1713.3   9744.7
GR   1713.7   9754.9   1714.3    9771.2   1714.4   9785.7   1714.4   9796.5   1713.4   9811.2
GR   1712.5   9822.1   1713.2    9829.8   1713.7   9843.7   1713.6   9857.3   1713.4   9869.8
GR   1713.3   9882.8   1713.9    9897.2   1714.1   9911.3   1714.2   9925.4   1714.2   9941.1
GR   1713.8   9955.0   1713.0    9961.5   1710.9   9970.8   1709.1   9975.4   1709.8   9984.4
GR   1709.0   9994.6   1709.1   10000.0   1709.1   10000.1   1710.1   10009.9   1711.8   10015.4
GR   1712.8   10023.5   1713.4   10035.9   1713.3   10050.2   1713.8   10059.7   1713.0   10070.7
GR   1712.4   10081.1   1712.8   10091.0   1714.2   10110.5   1714.6   10129.8   1714.8   10147.3
GR   1716.0   10166.1

NC    0.070    0.070    0.065     0.0      0.0
QT        2   3035.0   3035.0
ET                       9.1                                                     9896.0   10148.0
N PT. 21; REV. Q=3035 FROM FCD

X1   15.044      50    9969.3   10048.9   405.0    335.0    360.0     1.0       0.0      0
GR   1719.7   9819.4   1719.7    9829.1   1719.3   9839.9   1718.4   9853.3   1717.2   9864.9
GR   1715.0   9874.8   1715.7    9884.8   1716.4   9896.1   1716.3   9910.3   1716.2   9928.6
GR   1716.2   9945.2   1716.8    9961.1   1716.8   9969.3   1716.0   9977.1   1713.1   9986.4
GR   1712.8   9995.6   1712.9   10000.0   1712.9   10000.1   1713.3   10013.7   1713.3   10022.1
GR   1714.2   10030.9   1715.3   10039.9   1716.1   10048.9   1715.8   10053.4   1716.7   10062.8
GR   1716.8   10079.1   1717.0   10097.7   1717.4   10116.3   1717.5   10135.9   1717.6   10148.1
GR   1717.3   10159.0   1717.1   10171.1   1716.8   10182.5   1716.7   10191.1   1716.7   10201.5
GR   1716.7   10213.5   1716.7   10230.0   1716.5   10249.0   1716.2   10261.6   1715.9   10271.6
GR   1716.4   10280.6   1716.8   10294.3   1716.9   10307.8   1717.3   10324.5   1717.7   10338.7
GR   1718.1   10355.5   1718.1   10371.2   1718.0   10371.7   1720.0   10481.7   1720.0   10516.7

NH        4    0.055    9762.1    0.085    9879.8    0.055   10031.7    0.085   10161.8
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 ET                          9.1                                                    9810.0     10032.0
N PT. 20

 X1   15.118        50    9879.8   10031.7     340.0     410.0     390.0       1.0       0.0          0
 GR    1722.1    9580.0   1720.0    9615.0    1718.0    9650.0    1717.9    9670.0    1718.0     9675.0
 GR    1720.1    9762.1   1720.1    9775.2    1719.9    9789.0    1719.8    9809.6    1719.0     9826.1
 GR    1719.0    9828.1   1719.1    9838.0    1719.2    9851.0    1719.3    9858.7    1718.9     9867.5
 GR    1719.7    9874.2   1720.6    9879.8    1720.3    9887.1    1720.0    9896.9    1719.8     9909.3
 GR    1719.5    9921.0   1719.2    9929.4    1718.9    9936.9    1718.3    9945.0    1717.8     9952.6
 GR    1717.9    9970.6   1718.0    9979.3    1717.8    9991.4    1717.5   10000.0    1717.5    10000.1
 GR    1717.8   10006.8   1718.8   10010.4    1719.4   10015.4    1720.1   10023.4    1720.4    10031.7
 GR    1720.3   10043.6   1720.3   10052.4    1720.2   10058.5    1720.3   10065.5    1720.2    10074.3
 GR    1720.4   10083.4   1721.0   10091.6    1721.0   10096.9    1721.5   10105.2    1722.2    10116.2
 GR    1722.2   10125.3   1722.5   10134.6    1722.7   10142.8    1722.7   10151.4    1722.7    10161.8

 NH         3      0.075   9976.1       0.055   10122.5     0.075   10331.1
 ET                          9.1                                                    9920.0     10133.0
N PT. 19

 X1   15.208        49    9976.1   10122.5     425.0     520.0     475.0       1.0       0.0          0
 GR    1725.6     9800.   1724.0     9828.    1723.7     9840.    1724.0     9850.    1724.8      9920.
 GR    1724.0     9960.   1723.9    9963.6    1723.8    9971.7    1724.0    9976.1    1721.8     9982.6
 GR    1720.9    9986.1   1720.9    9993.9    1720.9   10000.0    1720.9   10000.1    1721.2    10006.5
 GR    1722.0   10011.3   1723.1   10017.9    1723.5   10025.6    1723.7   10032.5    1723.8    10038.8
 GR    1723.5   10046.2   1722.7   10052.4    1721.7   10056.4    1722.2   10061.6    1722.8    10066.5
 GR    1722.8   10073.4   1722.5   10079.5    1722.8   10083.6    1723.7   10089.4    1723.8    10093.7
 GR    1723.5   10098.8   1722.6   10104.6    1722.0   10109.3    1722.3   10112.8    1723.3    10116.3
 GR    1724.1   10122.5   1724.4   10132.5    1724.5   10150.5    1724.5   10170.7    1724.5    10191.3
 GR    1724.6   10209.6   1724.7   10229.6    1725.0   10250.1    1725.2   10272.8    1725.2    10290.5
 GR    1725.7   10303.8   1726.6   10313.2    1727.1   10322.1    1727.4   10331.1

 NC     0.075      0.075   0.055       0.0       0.0
 ET                          9.1                                                    9959.0     10126.0
 X1   15.298        50    9975.5   10064.8     515.0     450.0     475.0       1.0       0.0          0
 GR    1730.7    9931.0   1730.7    9931.4    1730.7    9939.6    1730.5    9946.9    1730.3     9954.8
 GR    1729.8    9962.2   1728.5    9969.1    1728.3    9975.5    1727.6    9982.4    1726.6     9989.2
 GR    1725.1    9994.2   1724.9   10000.0    1724.9   10000.1    1725.0   10007.6    1725.0    10015.3
 GR    1725.8   10020.8   1726.2   10025.7    1726.4   10034.1    1726.4   10041.2    1727.2    10046.8
 GR    1727.5   10052.6   1727.8   10061.1    1727.9   10064.8    1727.9   10075.0    1728.0    10084.3
 GR    1727.5   10091.1   1727.4   10099.1    1727.6   10106.0    1727.9   10115.4    1728.0    10126.3
 GR    1727.9   10135.4   1727.8   10146.2    1727.7   10155.5    1727.8   10163.6    1727.6    10176.6
 GR    1727.8   10186.5   1728.1   10195.5    1727.6   10203.4    1727.8   10212.2    1727.8    10220.1
 GR    1727.4   10228.6   1728.2   10236.7    1728.2   10246.5    1728.7   10260.2    1729.3    10275.0
 GR    1730.0   10292.7   1731.0   10308.9    1731.2   10320.2    1731.3   10331.6    1731.5    10343.9

 NH         9      0.10   9750.1       0.06    9782.3      0.10    9836.2      0.06    9901.8      0.10
 NH    9982.4      0.05  10033.0       0.10   10044.3      0.05   10065.3      0.10   10218.0
 ET                          9.1                                                    9836.0     10130.0
N PT. 18; "ISLAND"

 X1   15.379        50    9964.8   10072.9     450.0     415.0     430.0       1.0       0.0          0
 GR    1734.9    9708.9   1734.9    9708.9    1734.7    9724.6    1733.6    9738.0    1731.6     9750.1
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GR   1729.1    9759.0    1730.0    9762.8    1730.5    9768.7    1729.9    9775.1    1731.1    9782.3
GR   1732.6    9797.2    1733.0    9810.3    1732.8    9823.5    1732.2    9836.2    1731.3    9848.6
GR   1730.7    9858.2    1728.9    9868.1    1729.3    9870.9    1730.7    9880.7    1731.4    9895.4
GR   1731.6    9901.8    1730.9    9911.9    1731.3    9919.8    1730.6    9927.6    1731.1    9936.0
GR   1731.6    9949.6    1731.8    9964.8    1731.6    9975.3    1731.3    9982.4    1729.4    9993.1
GR   1729.3    9999.9    1729.1   10000.0    1729.1   10000.1    1729.3   10008.2    1728.9   10016.0
GR   1729.1   10023.0    1730.5   10033.0    1731.1   10040.6    1730.6   10044.3    1729.3   10052.5
GR   1729.4   10058.6    1730.5   10065.3    1731.1   10072.9    1731.2   10084.4    1732.1   10115.0
GR   1732.8   10144.2    1734.0   10181.3    1734.4   10196.2    1734.9   10215.2    1734.9   10218.0

NH       5       0.10    9770.0       0.06    9829.0       0.10    9975.2       0.05   10057.8       0.10
NH   10318.
ET                       9.1                                                          9742.0   10094.0
N VALUE MODOFIED FROM PT. 18, SECTION 76

X1   15.443        51    9975.2   10057.8     335.0     355.0     335.0       1.0       0.0         0
GR   1736.5    9705.0    1736.0    9740.0    1734.0    9770.0    1732.0    9801.7    1733.0    9811.0
GR   1733.8    9829.0    1734.3    9869.0    1734.7    9886.2    1734.7    9903.5    1734.7    9921.5
GR   1734.9    9938.9    1734.7    9954.8    1734.9    9965.9    1734.9    9975.2    1733.3    9980.8
GR   1732.0    9986.7    1731.8    9999.3    1731.6   10000.0    1731.6   10000.1    1731.9   10008.4
GR   1732.4   10013.6    1733.6   10020.4    1734.0   10026.4    1733.9   10031.9    1732.4   10038.1
GR   1731.8   10042.7    1732.0   10047.5    1733.2   10053.0    1734.0   10057.8    1733.6   10063.4
GR   1733.4   10070.0    1734.0   10079.4    1735.4   10089.0    1736.8   10100.8    1736.8   10112.9
GR   1736.7   10123.7    1736.5   10133.8    1736.1   10146.5    1736.0   10157.3    1735.9   10167.3
GR   1735.6   10170.9    1734.5   10176.3    1735.2   10183.3    1735.8   10195.8    1736.4   10213.1
GR   1736.6   10229.9    1737.0   10248.7    1737.8   10274.6    1738.1   10294.4    1738.3   10310.8
GR   1738.3   10318.3

NH       9       0.10    9577.5       0.06    9643.0       0.10    9699.7       0.06    9764.9       0.10
NH   9978.6       0.06   10037.0       0.10   10124.7       0.06   10176.0       0.10   10353.4
ET                       9.1                                                          9914.0   10249.0
N PT. 17

X1   15.500        81    9978.6   10176.0     300.0     295.0     300.0       1.0       0.0         0
GR   1739.6    9418.7    1739.6    9434.2    1739.4    9452.8    1739.4    9471.4    1739.1    9486.2
GR   1739.0    9500.5    1738.9    9515.1    1738.9    9528.2    1738.8    9541.4    1738.8    9553.4
GR   1738.3    9566.3    1738.7    9577.5    1738.3    9582.6    1737.7    9592.8    1736.6    9601.5
GR   1736.5    9605.7    1736.3    9610.3    1735.6    9614.4    1737.2    9620.2    1737.8    9627.8
GR   1738.2    9635.0    1738.0    9643.0    1737.5    9654.4    1737.3    9665.3    1737.3    9678.5
GR   1737.3    9688.3    1737.0    9699.7    1736.3    9709.8    1736.0    9719.5    1736.0    9725.2
GR   1736.5    9729.5    1736.4    9735.1    1736.4    9742.6    1737.2    9751.3    1737.8    9764.9
GR   1737.5    9780.7    1737.3    9793.1    1737.6    9805.8    1738.0    9819.7    1738.6    9840.3
GR   1738.7    9861.0    1738.9    9879.8    1739.0    9913.5    1738.2    9935.8    1737.5    9956.0
GR   1737.7    9970.4    1737.7    9978.6    1734.9    9989.6    1734.9    9999.7    1734.6   10000.0
GR   1734.6   10000.1    1735.7   10007.2    1736.5   10015.0    1737.4   10026.1    1737.9   10037.0
GR   1737.6   10046.0    1736.9   10058.3    1736.1   10065.4    1736.3   10076.9    1736.9   10089.7
GR   1736.5   10102.6    1736.6   10112.6    1737.0   10118.6    1737.2   10124.7    1736.9   10132.8
GR   1734.9   10143.0    1734.2   10149.8    1733.9   10156.3    1733.9   10161.2    1735.5   10168.1
GR   1736.6   10176.0    1736.7   10183.2    1735.9   10191.3    1735.9   10200.6    1736.8   10214.4
GR   1737.7   10231.3    1738.9   10252.4    1739.5   10276.2    1739.7   10299.7    1740.1   10327.0
GR   1740.6   10353.4
```

NH	7	0.10	9908.7	0.06	9949.4	0.10	9982.3	0.06	10020.6	0.10
NH	10068.	0.06	10144.2	0.10	10507.3					
ET			9.1						9784.0	10198.0
X1	15.581	90	9982.3	10144.2	380.0	460.0	430.0	1.0	0.0	0
GR	1742.9	9430.9	1742.9	9431.0	1742.9	9431.1	1742.9	9431.2	1742.9	9442.3
GR	1742.6	9456.4	1742.4	9472.8	1741.6	9487.2	1740.6	9506.0	1740.6	9520.1
GR	1740.1	9533.2	1740.5	9542.0	1740.8	9552.7	1739.8	9560.8	1740.4	9572.5
GR	1741.0	9585.0	1740.8	9601.9	1741.2	9615.3	1741.0	9628.0	1740.2	9640.3
GR	1740.2	9645.8	1740.9	9657.5	1740.7	9669.5	1740.9	9681.2	1741.2	9699.2
GR	1741.1	9714.2	1740.8	9731.2	1740.8	9748.1	1741.1	9766.0	1741.4	9784.2
GR	1741.2	9803.5	1741.1	9823.3	1741.3	9843.9	1741.4	9866.8	1741.5	9888.3
GR	1741.5	9908.7	1740.7	9921.4	1740.4	9928.0	1738.5	9935.0	1740.2	9942.5
GR	1741.3	9949.4	1741.3	9956.4	1740.9	9973.0	1741.0	9982.3	1738.8	9990.9
GR	1738.8	9998.5	1738.8	10000.0	1738.8	10000.1	1739.6	10006.9	1740.8	10013.8
GR	1741.3	10020.6	1741.3	10029.9	1741.4	10047.2	1741.6	10062.2	1741.6	10068.8
GR	1740.8	10079.4	1739.3	10088.8	1737.5	10096.2	1737.2	10106.8	1737.6	10114.7
GR	1739.2	10120.4	1739.6	10126.9	1739.7	10134.4	1740.2	10144.2	1739.8	10152.9
GR	1740.1	10162.5	1740.5	10169.9	1741.3	10178.7	1741.7	10190.3	1741.8	10198.1
GR	1741.3	10209.9	1739.8	10217.8	1739.2	10222.9	1740.3	10228.6	1740.8	10238.5
GR	1741.0	10248.8	1741.2	10261.0	1740.9	10272.6	1740.8	10287.0	1741.3	10303.3
GR	1741.5	10320.1	1741.7	10341.3	1742.0	10358.8	1743.2	10375.6	1744.0	10391.2
GR	1744.9	10409.0	1744.9	10423.7	1745.2	10437.5	1745.3	10451.7	1745.7	10507.3
NH	7	0.10	9882.6	0.06	10019.0	0.10	10108.2	0.06	10169.3	0.10
NH	10290.	0.06	10420.0	0.10	10620.0					
ET			9.1						9889.0	10230.0
X1	15.637	58	9975.9	10019.0	285.0	300.0	295.0	1.0	0.0	0
GR	1745.6	9808.4	1745.6	9823.7	1745.6	9842.1	1745.6	9857.2	1745.6	9871.1
GR	1745.2	9882.6	1744.4	9891.7	1742.2	9901.7	1742.5	9905.6	1744.3	9926.7
GR	1742.4	9946.8	1742.7	9951.6	1744.3	9961.0	1744.7	9975.9	1744.4	9983.1
GR	1742.4	9989.9	1742.2	9998.6	1742.0	10000.0	1742.0	10000.1	1742.7	10007.2
GR	1743.9	10012.8	1745.0	10019.0	1745.2	10025.6	1745.2	10033.1	1745.9	10061.0
GR	1745.3	10090.2	1744.7	10100.0	1743.8	10108.2	1743.5	10124.4	1741.9	10130.9
GR	1739.4	10137.8	1739.4	10143.7	1739.5	10150.6	1740.3	10156.2	1741.7	10162.7
GR	1742.5	10169.3	1742.6	10175.6	1742.5	10182.0	1742.7	10188.2	1743.2	10194.5
GR	1743.7	10201.2	1744.2	10209.4	1744.7	10216.7	1744.8	10225.2	1745.0	10230.0
GR	1744.0	10255.0	1744.0	10290.0	1742.0	10335.0	1740.0	10360.0	1741.8	10380.0
GR	1742.0	10400.0	1744.0	10420.0	1744.5	10440.0	1744.0	10460.0	1743.6	10490.0
GR	1744.0	10520.0	1746.0	10550.0	1747.0	10620.0				
NH	5	0.10	9929.7	0.06	10015.0	0.10	10260.0	0.06	10360.6	0.10
NH	10515.									
ET			9.1						9929.0	10388.0
X1	15.683	59	9929.7	10015.0	235.0	255.0	245.0	1.0	0.0	0
GR	1748.9	9830.0	1748.0	9895.0	1747.0	9929.7	1746.0	9945.0	1745.0	9951.7
GR	1746.4	9959.0	1746.9	9966.7	1747.1	9970.6	1747.0	9978.4	1746.4	9986.0
GR	1744.4	9994.2	1744.1	10000.0	1744.1	10000.1	1744.8	10005.7	1746.0	10010.0
GR	1748.0	10015.0	1748.2	10030.0	1748.0	10040.0	1747.8	10060.0	1748.0	10080.0
GR	1748.1	10090.0	1748.0	10095.0	1748.0	10145.0	1748.3	10170.0	1748.0	10215.0
GR	1746.8	10221.0	1746.4	10235.3	1746.1	10248.0	1745.8	10260.0	1744.7	10269.6
GR	1742.9	10277.8	1741.1	10285.3	1741.0	10292.4	1741.4	10298.6	1742.5	10301.6
GR	1744.1	10305.4	1744.9	10309.8	1744.6	10315.3	1743.0	10322.5	1741.9	10329.6

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GR   1741.7   10335.4   1742.0   10339.4   1743.8   10344.1   1745.2   10352.3   1745.5   10360.6
GR   1746.3   10369.4   1746.9   10378.0   1747.0   10387.5   1747.0   10397.2   1746.5   10407.9
GR   1746.2   10422.5   1746.0   10435.2   1746.2   10444.7   1746.3   10452.8   1746.5   10466.3
GR   1746.8   10470.0   1748.0   10480.0   1748.1   10502.3   1748.2   10515.0

NH       7       0.08   9977.2       0.06  10028.1       0.08  10173.3       0.06  10212.1       0.08
NH  10371.       0.06  10545.2       0.08  10795.0
QT       2     1275.0   1150.0
ET               7.1      9.1                                          10247.9   9857.0   10226.0
N PT. 16; START SPLIT FLOW Q=1275 CFS - MAIN

X1  15.749         91   9977.2   10028.1     355.0     345.0     345.0       1.0       0.0        0
GR   1752.3    9740.0   1752.0    9778.0   1750.7    9792.6   1750.2    9800.7   1747.9    9807.2
GR   1747.7    9811.6   1749.5    9815.5   1750.8    9822.8   1750.7    9830.4   1750.9    9846.5
GR   1751.2    9856.8   1750.9    9861.1   1749.3    9869.1   1749.5    9874.1   1750.8    9882.2
GR   1750.8    9894.3   1751.0    9908.2   1750.8    9918.9   1750.9    9931.1   1751.1    9940.5
GR   1751.2    9950.4   1751.3    9958.7   1751.6    9967.6   1751.6    9977.2   1751.2    9982.7
GR   1748.7    9992.4   1748.1    9996.9   1748.2   10000.0   1748.2   10000.1   1748.6   10004.8
GR   1750.4   10008.4   1751.8   10013.5   1752.1   10028.1   1751.8   10057.5   1751.4   10081.4
GR   1751.5   10107.6   1751.5   10126.5   1750.7   10145.5   1750.3   10155.9   1750.8   10169.2
GR   1750.7   10173.3   1745.7   10183.3   1750.1   10191.9   1750.5   10196.6   1750.9   10212.1
GR   1751.4   10222.8   1752.6   10234.9   1753.1   10247.9   1752.0   10262.0   1751.8   10283.9
GR   1751.6   10293.2   1751.3   10311.3   1751.4   10324.1   1751.0   10343.2   1750.5   10356.7
GR   1749.9   10371.6   1749.6   10382.0   1748.7   10396.4   1747.8   10400.1   1748.6   10407.2
GR   1749.1   10412.0   1748.7   10416.5   1745.6   10423.6   1745.4   10427.7   1745.7   10434.1
GR   1746.8   10441.3   1747.5   10449.6   1748.3   10457.3   1748.4   10465.3   1748.5   10474.7
GR   1748.2   10483.1   1746.7   10490.1   1746.6   10495.2   1747.4   10500.5   1747.5   10505.9
GR   1747.2   10509.3   1748.7   10518.2   1748.8   10524.7   1748.8   10531.3   1749.1   10545.2
GR   1750.5   10565.9   1750.7   10573.6   1750.7   10585.1   1750.7   10598.3   1750.0   10630.0
GR   1748.0   10690.0   1747.0   10700.0   1748.0   10710.0   1750.0   10720.0   1752.0   10730.0
GR   1753.6   10795.0

NH       7       0.08   9960.2       0.06  10026.9       0.08  10159.0       0.06  10259.3       0.08
NH  10771.       0.06  10847.3       0.08  11010.0
ET               7.1      9.1                                          10425.1   9907.0   10339.0
X1  15.842         82   9960.2   10026.9     505.0     495.0     495.0       1.0       0.0        0
GR   1758.0    9765.0   1756.5    9850.0   1757.0    9892.0   1757.3    9906.6   1757.2    9925.6
GR   1756.9    9937.2   1756.4    9943.8   1756.7    9951.4   1756.8    9960.2   1755.6    9967.1
GR   1755.5    9975.1   1755.3    9979.6   1754.4    9987.2   1754.2   10000.0   1754.2   10007.4
GR   1755.4   10011.9   1757.2   10018.1   1757.5   10026.9   1757.5   10040.2   1757.4   10052.1
GR   1757.1   10066.1   1757.1   10079.0   1756.8   10159.0   1754.6   10167.2   1755.1   10174.1
GR   1755.9   10180.2   1755.8   10185.6   1756.1   10191.4   1756.6   10201.3   1756.7   10210.5
GR   1756.6   10221.1   1756.2   10231.5   1755.0   10237.1   1754.3   10242.9   1755.6   10248.9
GR   1756.9   10259.3   1756.9   10271.8   1756.5   10287.7   1756.4   10316.1   1756.6   10329.7
GR   1757.5   10341.9   1759.4   10425.1   1759.4   10432.2   1758.3   10449.2   1757.6   10469.2
GR   1756.9   10482.2   1751.8   10626.4   1751.6   10630.7   1753.1   10639.0   1753.1   10646.7
GR   1752.4   10656.7   1751.5   10663.4   1751.1   10666.9   1752.1   10672.7   1753.7   10681.7
GR   1753.8   10690.6   1754.0   10702.1   1753.9   10720.6   1753.5   10733.7   1753.2   10744.0
GR   1753.0   10756.4   1752.7   10766.1   1752.9   10771.9   1752.2   10778.2   1751.0   10784.5
GR   1752.3   10790.4   1752.9   10796.5   1753.1   10803.9   1753.1   10812.2   1752.2   10817.3
GR   1750.7   10823.5   1749.1   10830.5   1748.6   10838.1   1749.5   10843.2   1751.4   10847.3
GR   1752.8   10855.3   1754.9   10863.8   1755.3   10868.3   1755.7   10879.9   1756.0   10885.0
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GR   1756.5   10970.0   1756.0   11010.0

NH       5       0.08   9974.5      0.06   10068.3      0.08   10940.0      0.06   10999.0      0.08
NH   11080.
ET               7.1      9.1                                            10430.5    9910.0   10308.0
X1   15.890        96   9974.5   10068.3     250.0     275.0     250.0       1.0       0.0         0
GR   1760.8    9704.7   1759.6    9797.4    1759.4    9804.0    1759.4    9817.7    1759.5    9832.0
GR   1759.5    9847.1   1759.5    9864.0    1759.5    9882.3    1759.7    9897.7    1759.8    9913.0
GR   1759.8    9931.3   1760.1    9948.1    1760.3    9964.6    1760.5    9974.5    1760.3    9981.4
GR   1759.7    9986.6   1757.0    9993.0    1757.0    9999.9    1756.5   10000.0    1756.5   10000.1
GR   1756.9   10004.6   1758.4   10009.8    1760.2   10017.6    1760.2   10026.5    1760.0   10037.6
GR   1759.0   10045.7   1759.0   10050.5    1758.3   10055.1    1758.8   10061.6    1760.0   10068.3
GR   1759.9   10076.1   1759.5   10087.6    1759.4   10099.9    1759.5   10111.2    1760.2   10122.4
GR   1760.8   10132.7   1760.8   10145.4    1760.2   10155.0    1759.6   10163.3    1758.1   10170.2
GR   1759.6   10177.1   1760.2   10181.9    1760.2   10190.8    1760.2   10203.7    1759.8   10213.4
GR   1759.6   10223.5   1759.1   10230.1    1758.4   10236.9    1758.6   10241.3    1759.7   10245.7
GR   1759.8   10255.7   1759.9   10268.3    1760.4   10281.9    1760.4   10293.3    1762.3   10430.5
GR   1760.9   10542.7   1756.8   10656.1    1756.1   10665.2    1757.0   10671.6    1755.6   10680.5
GR   1756.7   10687.0   1756.9   10693.2    1756.5   10707.3    1756.5   10716.4    1756.3   10728.1
GR   1756.6   10738.4   1756.8   10751.9    1757.2   10765.3    1757.4   10778.2    1757.3   10793.2
GR   1756.6   10804.7   1756.0   10814.5    1756.6   10823.6    1756.4   10833.0    1755.7   10840.5
GR   1756.4   10849.2   1756.9   10856.6    1756.8   10866.3    1756.7   10879.4    1756.8   10892.6
GR   1756.9   10906.0   1756.6   10919.6    1756.1   10931.6    1755.8   10940.0    1755.7   10949.2
GR   1755.2   10959.4   1752.3   10969.1    1752.0   10979.9    1752.1   10989.8    1754.7   10995.4
GR   1757.9   10999.0   1758.6   11009.3    1758.6   11021.9    1758.0   11040.0    1757.0   11065.0
GR   1758.0   11080.0

NH       5       0.08   9982.7      0.06   10051.2      0.08   10847.8      0.06   10998.5      0.08
NH   11147.
ET               7.1      9.1                                     9691.0   10468.7    9919.0   10337.0
X1   15.898        97   9982.7   10087.6      45.0      45.0      45.0       1.0       0.0         0
GR   1759.0    9525.5   1759.1    9533.3    1759.8    9555.4    1759.6    9580.8    1759.8    9601.5
GR   1760.2    9620.6   1760.5    9639.7    1760.4    9647.1    1759.8    9654.4    1760.4    9666.5
GR   1761.0    9691.0   1760.6    9719.7    1760.4    9743.6    1759.7    9832.5    1760.0    9886.9
GR   1760.3    9904.5   1760.2    9919.4    1760.6    9934.2    1760.6    9949.4    1760.3    9966.1
GR   1760.5    9973.6   1760.8    9982.7    1760.0    9986.6    1757.4    9992.4    1757.4    9999.9
GR   1757.3   10000.0   1757.6   10007.1    1759.8   10011.4    1760.5   10018.1    1760.7   10030.3
GR   1760.4   10039.1   1759.0   10051.2    1759.1   10056.3    1760.1   10062.2    1760.3   10068.3
GR   1760.4   10079.1   1760.5   10087.6    1760.0   10095.9    1760.1   10104.5    1760.6   10113.8
GR   1761.2   10123.7   1761.2   10133.5    1760.7   10143.4    1759.8   10153.9    1758.7   10159.3
GR   1760.0   10166.2   1760.4   10173.3    1760.4   10185.0    1760.4   10192.2    1760.5   10208.2
GR   1760.4   10228.4   1760.4   10245.0    1760.6   10265.3    1760.5   10271.4    1760.0   10282.9
GR   1758.8   10292.1   1759.6   10298.3    1760.3   10308.7    1760.8   10320.3    1763.7   10468.7
GR   1760.7   10528.4   1763.9   10569.8    1758.4   10641.6    1760.0   10772.0    1761.1   10791.8
GR   1759.7   10825.2   1759.5   10834.6    1759.8   10847.8    1760.1   10859.8    1760.1   10872.8
GR   1759.5   10884.1   1758.5   10895.0    1756.8   10904.9    1756.9   10916.2    1757.6   10919.9
GR   1759.2   10930.7   1759.1   10935.2    1758.4   10945.3    1756.2   10954.8    1757.0   10961.0
GR   1756.8   10965.1   1754.3   10971.9    1754.6   10978.4    1755.6   10983.5    1757.9   10990.8
GR   1759.6   10998.5   1759.3   11006.7    1759.5   11017.0    1759.5   11023.2    1759.4   11036.3
GR   1759.8   11048.6   1760.2   11061.7    1761.2   11079.8    1762.2   11099.7    1762.7   11117.3
GR   1763.3   11133.8   1763.3   11147.5
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NH       7      0.08    9937.6     0.06   10006.6     0.08   10797.9     0.06   10835.4     0.08
NH   10881.      0.06   10924.0     0.08   10976.9
ET               7.1       9.1                                        10455.8    9913.0   10358.0
X1   15.932       88    9937.6   10006.6     195.0    175.0    180.0      1.0      0.0         0
GR   1763.8   9750.6    1763.2    9768.5    1762.3   9781.9   1762.0   9798.8   1761.9    9810.9
GR   1761.9   9826.2    1762.2    9840.5    1762.4   9856.9   1762.6   9874.2   1762.8    9893.7
GR   1763.0   9913.0    1762.7    9928.7    1762.7   9937.6   1762.7   9945.3   1761.6    9955.0
GR   1760.5   9963.5    1760.1    9974.9    1759.7   9982.1   1760.0  10000.0   1760.0   10000.1
GR   1760.9  10002.2    1762.0   10006.6    1762.0  10016.6   1762.2  10033.3   1762.7   10055.1
GR   1762.7  10075.3    1762.7   10096.6    1762.6  10112.4   1762.3  10123.6   1761.6   10129.4
GR   1761.1  10137.8    1761.7   10141.9    1761.8  10144.9   1761.2  10150.9   1762.4   10158.8
GR   1763.0  10167.1    1762.8   10177.5    1762.8  10186.3   1762.9  10198.8   1762.8   10211.5
GR   1762.8  10234.4    1762.5   10250.6    1762.4  10265.6   1762.4  10279.5   1762.0   10286.4
GR   1761.4  10296.6    1761.9   10309.5    1762.3  10320.5   1762.1  10332.3   1762.3   10342.7
GR   1762.9  10355.7    1763.4   10368.6    1764.7  10398.1   1765.2  10421.4   1765.8   10455.8
GR   1764.0  10500.0    1765.3   10525.0    1764.0  10560.0   1762.0  10580.0   1760.0   10605.0
GR   1762.0  10620.0    1762.5   10630.0    1762.0  10640.0   1761.0  10660.0   1762.0   10700.0
GR   1764.0  10722.0    1764.4   10739.8    1764.3  10754.5   1763.9  10768.2   1763.9   10781.8
GR   1763.9  10792.7    1763.8   10797.9    1761.7  10806.9   1760.2  10814.7   1760.0   10819.8
GR   1760.7  10825.0    1763.2   10830.4    1763.8  10835.4   1764.1  10853.5   1763.8   10862.1
GR   1763.6  10871.3    1763.4   10881.4    1762.9  10892.2   1760.7  10901.1   1760.1   10907.1
GR   1763.1  10924.0    1764.1   10953.7    1765.2  10976.9

NH       5      0.08    9964.6     0.06   10036.6     0.08   10560.4     0.06   10622.4     0.08
NH   10995.
ET               7.1       9.1                                        10159.1    9878.0   10148.0
X1   16.021       88    9964.6   10036.6     515.0    450.0    470.0      1.0      0.0         0
GR   1770.3   9679.3    1768.5    9731.4    1768.3   9749.4   1768.3   9768.5   1768.0    9785.3
GR   1768.0   9802.3    1767.8    9813.4    1767.4   9819.2   1768.4   9828.8   1768.2    9845.1
GR   1768.2   9858.2    1767.9    9867.2    1768.4   9878.6   1768.3   9898.2   1768.3    9914.2
GR   1767.9   9922.2    1766.2    9928.9    1766.2   9932.8   1767.3   9938.1   1767.6    9944.9
GR   1768.6   9955.6    1768.7    9964.6    1768.0   9974.8   1765.6   9985.3   1765.3    9996.9
GR   1765.0  10000.0    1765.0   10000.1    1765.4  10006.9   1767.3  10013.9   1767.7   10016.8
GR   1768.1  10024.8    1768.3   10036.6    1768.2  10049.1   1768.4  10064.6   1768.7   10079.2
GR   1768.8  10098.4    1768.8   10118.7    1768.3  10134.7   1768.9  10146.8   1770.0   10159.1
GR   1769.6  10170.9    1769.0   10182.5    1768.5  10192.1   1768.3  10200.8   1769.2   10236.1
GR   1767.4  10254.1    1768.3   10261.4    1768.7  10273.0   1768.7  10284.7   1768.3   10294.4
GR   1769.0  10302.0    1768.5   10306.5    1767.2  10313.0   1767.3  10318.6   1768.9   10324.8
GR   1769.8  10341.3    1771.6   10362.5    1771.6  10378.7   1771.4  10393.6   1770.5   10407.1
GR   1769.3  10459.9    1770.3   10499.6    1770.5  10511.0   1769.5  10522.2   1769.9   10536.8
GR   1770.0  10549.3    1770.2   10560.4    1769.6  10571.8   1768.0  10580.6   1766.7   10588.4
GR   1766.6  10595.0    1768.0   10603.6    1769.7  10615.2   1769.9  10622.4   1769.4   10633.6
GR   1768.9  10647.2    1769.1   10656.0    1770.7  10670.2   1771.2  10679.5   1771.2   10688.1
GR   1770.0  10710.0    1769.7   10760.0    1770.0  10790.0   1771.3  10830.0   1770.0   10875.0
GR   1768.0  10925.0    1770.0   10970.0    1770.4  10995.0

NH       5      0.08    9969.8     0.06   10045.6     0.08   10329.9     0.06   10385.7     0.08
NH   10760.
QT       2    1875.0    1750.0
ET               7.1       9.1                                        10258.6    9917.0   10236.0
SPLIT FLOW - Q=1875 CFS - MAIN CHANNEL
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X1    16.112       63    9969.8   10045.6     510.0     475.0     480.0       1.0       0.0         0
GR    1775.1     9660.    1774.0     9688.    1773.0     9696.    1774.0    9703.    1776.0      9710.
GR    1776.3    9721.1    1776.1    9729.9    1775.7    9739.8    1775.3    9748.0    1774.5     9756.4
GR    1774.3    9766.4    1774.2    9777.7    1773.7    9789.8    1773.5    9804.1    1773.1     9813.5
GR    1773.9    9916.9    1773.3    9924.6    1772.5    9931.8    1772.8    9941.3    1773.5     9951.3
GR    1773.7    9960.5    1774.0    9969.8    1773.0    9975.6    1771.1    9983.4    1769.6     9991.7
GR    1769.7   10000.0    1769.7   10000.1    1769.7   10008.7    1770.3   10013.0    1772.8    10017.3
GR    1774.0   10045.6    1773.4   10069.5    1772.4   10088.5    1772.7   10109.1    1773.9    10184.8
GR    1773.2   10212.5    1773.7   10224.8    1774.5   10236.7    1774.9   10247.7    1775.0    10258.6
GR    1774.9   10269.7    1774.5   10278.7    1773.7   10289.8    1773.2   10304.3    1772.7    10317.5
GR    1772.1   10329.9    1770.9   10341.3    1769.6   10352.3    1769.3   10360.5    1769.1    10367.2
GR    1770.5   10374.2    1771.7   10385.7    1772.1   10399.3    1772.4   10424.7    1771.6    10447.3
GR    1772.1   10483.7    1774.3   10531.5    1774.0   10560.0    1772.0   10590.0    1770.0    10640.0
GR    1772.0   10710.0    1773.0   10735.0    1772.0   10760.0

NH        5      0.08    9978.2       0.06   10033.1      0.08   10175.9      0.06   10221.8      0.08
NH    10370.
QT        2    1875.0    2995.0                                             10050.2    9926.0    10252.0
ET               7.1       9.1
X1    16.164       53    9978.2   10033.1     240.0     315.0     275.0       1.0       0.0         0
GR    1778.0    9650.0    1778.0    9675.0    1776.0    9685.0    1774.5    9700.0    1776.0     9715.0
GR    1776.8    9725.7    1776.9    9735.7    1776.7    9748.8    1776.7    9761.9    1776.4     9776.0
GR    1776.4    9790.6    1776.4    9807.2    1776.5    9820.1    1776.4    9839.9    1776.3     9860.6
GR    1776.4    9882.5    1776.4    9897.5    1776.9    9919.2    1777.1    9934.0    1777.3     9948.5
GR    1777.4    9964.6    1777.4    9978.2    1777.1    9985.2    1772.9    9990.6    1772.6    10000.0
GR    1772.6   10000.1    1772.9   10007.2    1773.9   10011.8    1776.6   10016.2    1777.6    10022.5
GR    1778.0   10033.1    1778.2   10050.2    1778.2   10067.1    1778.2   10084.5    1778.2    10098.0
GR    1778.2   10111.2    1777.3   10125.6    1776.9   10139.2    1777.1   10153.2    1777.3    10165.1
GR    1777.0   10175.9    1775.4   10184.7    1773.7   10194.5    1773.4   10204.3    1774.0    10210.6
GR    1776.3   10221.8    1777.2   10235.0    1777.4   10251.6    1777.4   10265.2    1777.4    10279.5
GR    1777.9   10309.8    1778.0   10320.0    1778.4   10370.0

NC      0.08      0.08      0.06       0.0       0.0
QT        2    2995.0    2995.0
ET               7.1       9.1                                             10115.1    9926.0    10080.0
END SPLIT FLOW - Q=2995 CFS

X1    16.254       45    9933.9   10039.8     475.0     485.0     475.0       1.0       0.0         0
GR    1783.8    9680.0    1783.3    9730.0    1783.7    9775.0    1782.3    9805.0    1783.2     9830.0
GR    1783.2    9918.0    1783.5    9925.7    1782.9    9933.9    1780.5    9944.3    1779.3     9956.8
GR    1778.6    9968.7    1778.4    9980.8    1777.8    9988.8    1777.2    9994.1    1776.9    10000.0
GR    1776.9   10000.1    1777.5   10007.3    1779.1   10014.1    1779.9   10023.9    1781.4    10031.2
GR    1782.1   10039.8    1782.0   10044.7    1781.7   10049.6    1782.7   10057.9    1783.0    10069.5
GR    1783.5   10082.9    1783.6   10101.1    1783.7   10115.5    1783.2   10129.9    1782.4    10144.5
GR    1781.9   10164.4    1781.6   10179.5    1781.8   10197.7    1782.3   10214.4    1782.0    10230.5
GR    1782.0   10280.0    1780.0   10360.0    1778.0   10370.0    1777.0   10380.0    1778.0    10385.0
GR    1780.0   10400.0    1780.5   10425.0    1780.2   10440.0    1782.0   10460.0    1784.0    10530.0

NH        5     0.080    9888.2      0.050    9956.2     0.080    9977.8     0.050   10010.5     0.080
NH    10129.
ET                       9.1                                                          9889.0    10011.0
```

N PT. 15

X1	16.345	27	9977.8	10010.5	480.0	485.0	480.0	1.0	0.0	0
GR	1789.1	9864.3	1789.3	9876.5	1789.3	9881.9	1788.4	9888.2	1784.8	9899.8
GR	1785.2	9907.9	1785.3	9912.9	1785.4	9917.6	1784.5	9926.6	1784.3	9933.2
GR	1783.4	9937.3	1783.4	9947.3	1784.1	9956.2	1784.2	9966.7	1784.2	9977.8
GR	1783.4	9985.5	1782.4	9993.1	1782.5	10000.0	1782.5	10000.1	1782.8	10005.5
GR	1789.0	10010.5	1788.7	10016.2	1788.4	10044.1	1788.3	10068.6	1788.3	10086.9
GR	1788.7	10107.4	1789.0	10129.0						
NC	0.080	0.080	0.050	0.0	0.0					
ET			9.1						9935.0	10053.0

N PT. 14

X1	16.421	44	9963.7	10022.7	410.0	400.0	400.0	1.0	0.0	0
GR	1794.8	9829.7	1794.8	9829.8	1794.8	9829.9	1794.8	9845.4	1794.5	9858.9
GR	1794.4	9875.2	1794.3	9894.0	1794.3	9907.6	1794.3	9920.8	1793.8	9933.2
GR	1791.3	9942.8	1790.3	9949.6	1790.8	9954.6	1791.0	9963.7	1790.1	9973.0
GR	1789.5	9982.1	1788.8	9993.9	1788.4	10000.0	1788.4	10000.1	1788.4	10008.9
GR	1791.6	10016.6	1791.9	10022.7	1791.3	10029.9	1791.4	10038.9	1792.8	10053.2
GR	1792.8	10066.2	1792.7	10088.0	1792.3	10101.4	1792.4	10116.3	1792.6	10134.6
GR	1792.9	10151.7	1792.8	10170.1	1792.5	10190.5	1793.0	10200.0	1792.3	10293.0
GR	1792.0	10330.0	1791.9	10340.0	1792.0	10350.0	1792.5	10400.0	1792.0	10440.0
GR	1791.9	10445.0	1792.0	10456.0	1794.0	10480.0	1795.0	10510.0		
NC	0.08	0.080	0.065	0.0	0.0					
ET			9.1						9853.0	10063.0

N PT. 13

X1	16.481	44	9955.7	10016.6	290.0	365.0	315.0	1.0	0.0	0
GR	1799.1	9772.2	1799.1	9772.3	1799.1	9772.4	1798.9	9787.2	1798.3	9798.3
GR	1797.7	9807.6	1795.6	9815.7	1796.2	9820.8	1796.6	9823.2	1795.6	9828.1
GR	1793.7	9833.5	1794.3	9842.3	1795.0	9852.7	1794.5	9863.3	1794.8	9878.9
GR	1795.0	9896.4	1795.2	9908.3	1795.1	9923.4	1794.9	9935.9	1795.2	9946.2
GR	1795.1	9955.7	1793.6	9967.6	1792.4	9979.2	1791.4	9989.7	1791.6	10000.0
GR	1791.6	10000.1	1792.2	10004.0	1793.8	10009.5	1795.0	10016.6	1794.6	10028.4
GR	1794.7	10037.8	1795.0	10050.8	1795.7	10058.2	1797.2	10063.2	1797.2	10074.4
GR	1796.9	10088.8	1796.7	10104.0	1796.6	10113.6	1796.3	10123.5	1795.5	10133.6
GR	1796.3	10146.9	1797.5	10161.3	1797.9	10175.9	1798.2	10193.2		
NC	0.065	0.080	0.050	0.0	0.0					
ET			9.1						9979.0	10089.0

N PT. 12

X1	16.551	48	9979.2	10054.7	380.0	335.0	370.0	1.0	0.0	0
GR	1802.6	9966.0	1802.6	9966.1	1802.6	9966.2	1802.6	9966.3	1802.0	9972.2
GR	1800.9	9979.2	1796.6	9987.4	1796.4	9994.9	1796.3	10000.0	1796.3	10000.1
GR	1796.5	10005.9	1797.9	10011.5	1798.0	10014.0	1797.6	10017.7	1797.0	10020.4
GR	1797.6	10023.5	1798.5	10030.2	1799.0	10034.6	1798.7	10039.3	1798.5	10042.7
GR	1798.9	10049.0	1799.4	10054.7	1798.8	10059.7	1798.5	10065.5	1798.8	10073.8
GR	1799.1	10082.5	1799.4	10088.8	1799.3	10094.2	1798.8	10099.0	1798.6	10105.3
GR	1798.5	10112.7	1798.5	10119.5	1798.4	10126.2	1798.6	10138.8	1798.9	10150.0

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 GR   1798.8   10157.4   1798.8   10167.4   1798.6   10180.8   1798.6   10187.4   1799.0   10195.6
 GR   1799.0   10205.3   1799.1   10216.5   1798.4   10224.5   1798.3   10228.6   1798.8   10233.8
 GR   1799.7   10239.8   1800.0   10260.0   1801.1   10300.0

 NC    0.080     0.075    0.050      0.0       0.0
 ET                       9.1                                                    9837.0   10097.0
N PT. 11

 X1   16.628        40   9954.4   10019.4     455.0     365.0     410.0       1.0      0.0        0
 GR   1806.9    9744.5   1806.5    9772.5   1805.7    9783.0   1805.4    9806.3   1805.2    9818.0
 GR   1805.9    9828.0   1805.9    9837.4   1805.9    9847.5   1805.7    9856.1   1804.9    9865.4
 GR   1804.4    9873.4   1804.4    9881.5   1804.4    9890.7   1804.5    9898.7   1804.3    9906.3
 GR   1804.0    9918.7   1804.0    9926.1   1804.3    9935.1   1804.2    9944.2   1803.5    9954.4
 GR   1802.3    9964.0   1801.6    9978.5   1801.0   10000.0   1801.0   10000.1   1801.2   10006.5
 GR   1802.6   10013.5   1803.8   10019.4   1803.8   10028.1   1804.1   10041.8   1804.7   10056.7
 GR   1805.2   10071.5   1805.3   10085.2   1805.0   10096.9   1805.0   10130.0   1804.2   10175.0
 GR   1804.0   10180.0   1803.2   10187.0   1804.0   10198.0   1806.0   10217.0   1807.2   10255.0

 NC    0.080     0.080    0.050      0.0       0.0
 ET                       9.1                                                    9933.0   10060.0
N PT. 10

 X1   16.714        26   9939.7   10014.5     380.0     505.0     450.0       1.0      0.0        0
 GR   1811.1    9773.8   1810.4    9860.5   1810.0    9893.9   1809.7    9917.9   1809.4    9928.2
 GR   1809.5    9933.3   1808.5    9939.7   1806.6    9949.9   1806.1    9960.6   1806.0    9971.1
 GR   1805.9    9983.6   1805.5   10000.0   1805.5   10000.1   1805.8   10004.4   1807.3   10007.0
 GR   1808.0   10014.5   1808.0   10022.6   1807.7   10032.0   1807.1   10040.5   1806.9   10047.1
 GR   1807.5   10051.9   1810.1   10056.3   1811.4   10064.5   1812.1   10074.1   1812.1   10082.8
 GR   1812.3   10097.3

 NC    0.080     0.080    0.055      0.0       0.0
 ET                       9.1                                                    9893.0   10041.0
N PT. 9

 X1   16.788        43   9947.1   10021.0     410.0     390.0     390.0       1.0      0.0        0
 GR   1815.5    9675.0   1814.3    9705.0   1816.0    9729.0   1816.2    9733.4   1816.2    9744.8
 GR   1815.8    9757.1   1815.7    9771.0   1815.5    9784.9   1815.5    9796.6   1815.7    9808.9
 GR   1815.7    9820.1   1815.9    9834.6   1816.0    9852.2   1815.8    9864.2   1815.4    9876.3
 GR   1815.5    9886.8   1815.5    9892.6   1814.5    9899.4   1812.5    9904.5   1813.2    9910.4
 GR   1812.9    9915.4   1812.4    9923.3   1812.6    9935.7   1812.6    9947.1   1812.1    9954.5
 GR   1811.2    9963.1   1810.9    9970.7   1810.2    9980.3   1809.1    9987.5   1808.9   10000.0
 GR   1808.9   10000.1   1809.1   10006.7   1811.0   10013.7   1813.2   10021.0   1814.0   10030.2
 GR   1814.0   10041.3   1814.6   10051.7   1815.5   10062.9   1816.4   10074.3   1817.4   10087.9
 GR   1817.6   10100.0   1817.8   10116.6   1817.7   10128.1

 NC    0.070     0.080    0.045      0.0       0.0
 ET                       9.1                                                    9981.0   10108.0
N PT. 8

 X1   16.861        44   9981.8   10055.6     365.0     435.0     390.0       1.0      0.0        0
 GR   1820.6     9805.   1820.0    9855.    1818.0    9915.    1818.9    9941.3   1819.6    9955.4
 GR   1819.8    9970.2   1819.6    9981.8   1817.8    9984.5   1813.0    9988.8   1812.9   10000.0
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GR   1812.9   10000.1   1812.9   10008.4   1813.0   10012.2   1814.5   10020.1   1815.5   10031.2
GR   1816.0   10043.9   1816.5   10055.6   1816.7   10064.1   1816.8   10075.3   1817.0   10083.8
GR   1816.8   10091.0   1816.3   10097.9   1817.3   10103.3   1817.9   10108.3   1817.9   10112.7
GR   1817.7   10119.0   1817.9   10127.7   1818.0   10136.5   1818.0   10146.1   1818.1   10154.1
GR   1818.2   10163.6   1818.2   10170.4   1818.2   10178.1   1817.4   10187.6   1817.9   10194.3
GR   1818.6   10204.6   1819.2   10213.7   1819.4   10224.0   1820.2   10234.2   1821.2   10244.5
GR   1821.9   10255.0   1822.3   10265.4   1822.3   10277.1   1822.5   10292.8

NC    0.085     0.070     0.045     0.0       0.0
ET                        9.1                                                    9960.0   10032.0
N PT. 7

X1   16.936       32     9966.1   10025.4   445.0     345.0     395.0     1.0      0.0      0
GR   1825.5    9854.8    1825.5    9854.9   1825.5    9855.0   1825.5    9867.0   1825.1    9893.6
GR   1824.4    9905.7    1823.1    9916.8   1821.4    9924.6   1819.7    9927.9   1821.8    9933.0
GR   1822.5    9942.6    1823.2    9952.0   1823.8    9960.3   1823.3    9966.1   1820.7    9974.6
GR   1817.7    9983.0    1817.1   10000.0   1817.1   10000.1   1817.1   10013.5   1819.9   10019.1
GR   1821.9   10025.4    1822.2   10031.5   1821.7   10040.0   1822.2   10055.2   1822.7   10075.8
GR   1822.7   10093.5    1823.0   10107.2   1823.6   10121.6   1823.6   10134.9   1823.9   10152.1
GR   1824.2   10169.2    1824.6   10185.3

NC    0.080     0.080     0.045     0.0       0.0
ET                        9.1                                                    9910.0   10080.0
N PT. 6

X1   17.011       22     9970.0   10039.0   345.0     445.0     395.0     1.0      0.0      0
X3        0      0.0       0.0       0.0     0.0       0.0       0.0     0.0      0.0
GR   1828.0    9750.     1826.6    9828.   1827.6    9910.    1826.0    9970.   1821.6    9985.7
GR   1821.3    9996.7    1821.4   10000.0   1821.4   10000.1   1821.8   10008.8   1821.9   10015.3
GR   1822.0   10019.8    1824.0   10025.5   1825.1   10032.1   1825.8   10039.0   1825.9   10045.4
GR   1825.7   10052.9    1825.6   10059.1   1825.5   10068.0   1826.2   10073.5   1827.5   10079.5
GR   1829.7   10085.3    1830.6   10092.4

ET                        9.1                                                    9935.0   10037.0
X1   17.046       25     9955.2   10025.8   210.0     180.0     185.0     1.0      0.0      0
GR   1831.6    9898.8    1831.6    9898.8   1831.6    9898.9   1831.6    9899.0   1830.8    9910.0
GR   1829.9    9921.9    1829.2    9932.9   1828.5    9941.1   1826.7    9948.6   1824.7    9955.2
GR   1824.2    9963.2    1824.0    9972.7   1823.4    9984.6   1823.2   10000.0   1823.2   10000.1
GR   1823.6   10015.1    1825.8   10019.2   1827.1   10025.8   1828.9   10036.5   1829.0   10049.4
GR   1830.7   10059.3    1831.3   10068.5   1831.5   10078.4   1831.6   10091.0   1831.6   10109.1

ET                        9.1                                                    9962.0   10056.0
X1   17.135       23     9982.3   10016.3   495.0     470.0     470.0     1.0      0.0      0
GR   1835.6    9893.4    1835.6    9913.5   1835.5    9925.3   1834.8    9936.3   1833.8    9943.9
GR   1834.9    9952.3    1835.5    9961.6   1834.6    9970.3   1831.8    9982.3   1828.0    9989.3
GR   1827.5   10000.0    1827.5   10000.1   1827.5   10005.8   1829.5   10010.5   1832.4   10016.3
GR   1832.8   10025.1    1833.3   10040.2   1833.7   10056.2   1833.7   10069.9   1833.7   10079.7
GR   1834.5   10090.6    1835.8   10099.9   1835.9   10110.8

NC    0.085     0.085     0.050     0.0       0.0
ET                        9.1                                                    9942.0   10110.0
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N PT. 5

X1	17.200	35	9976.8	10022.6	365.0	330.0	345.0	1.0	0.0	0
GR	1841.3	9886.1	1840.8	9922.4	1839.7	9937.0	1839.0	9951.9	1837.5	9964.2
GR	1836.8	9976.8	1836.2	9980.8	1833.6	9990.0	1833.3	10000.0	1833.3	10000.1
GR	1833.6	10010.6	1835.0	10016.0	1836.8	10022.6	1837.5	10032.5	1837.5	10040.7
GR	1836.8	10051.9	1836.3	10065.0	1836.2	10076.4	1836.6	10086.2	1837.8	10098.6
GR	1838.2	10109.6	1838.2	10117.7	1838.1	10127.8	1837.9	10139.6	1837.6	10153.1
GR	1837.1	10163.9	1836.7	10175.0	1837.0	10183.5	1837.4	10193.1	1838.2	10207.4
GR	1838.9	10220.8	1839.6	10233.6	1840.1	10244.2	1840.2	10255.5	1840.2	10267.9
NC	0.080	0.080	0.050	0.1	0.3					
QT	2	2785.0	2785.0							
ET			9.1						9955.0	10043.0

OVERLAP PREVIOUS STUDY; NEW Q=2785 CFS PER FCD

X1	17.262	22	9966.1	10039.9	300.0	355.0	325.0	1.0	0.0	0
GR	1844.5	9822.2	1843.8	9849.3	1843.2	9865.8	1842.7	9883.1	1841.6	9898.9
GR	1841.6	9916.0	1842.0	9929.7	1842.5	9939.2	1842.6	9955.2	1841.9	9966.1
GR	1840.6	9976.3	1838.5	9986.3	1838.5	9994.6	1837.9	10000.0	1837.9	10000.1
GR	1837.5	10017.2	1837.6	10025.7	1839.8	10033.6	1842.5	10039.9	1843.4	10050.4
GR	1844.6	10067.7	1844.7	10079.0						
ET			9.1						9970.0	10065.0
X1	17.319	43	9977.1	10042.5	260.0	300.0	300.0	1.0	0.0	0
GR	1846.4	9836.3	1846.4	9864.3	1846.4	9877.7	1846.0	9890.9	1845.0	9906.1
GR	1844.6	9924.3	1844.4	9937.5	1844.4	9954.4	1844.4	9967.9	1843.6	9977.1
GR	1841.0	9984.2	1840.6	9992.4	1840.8	10000.0	1840.8	10000.1	1841.4	10010.4
GR	1842.7	10020.1	1843.2	10030.5	1843.4	10042.5	1843.8	10053.2	1843.5	10061.4
GR	1843.4	10077.3	1843.8	10091.0	1844.8	10105.8	1845.1	10115.8	1845.1	10122.7
GR	1844.3	10136.9	1844.2	10150.5	1844.8	10161.9	1845.2	10175.7	1845.4	10187.2
GR	1845.2	10198.6	1845.0	10212.4	1845.0	10231.6	1844.9	10248.6	1844.6	10267.7
GR	1844.6	10289.6	1844.7	10309.9	1846.1	10327.1	1847.2	10343.3	1848.6	10358.9
GR	1849.3	10373.8	1849.6	10387.1	1849.6	10401.4				
ET			9.1						9955.0	10051.0
X1	17.364	32	9966.5	10031.7	200.0	260.0	240.0	1.0	0.0	0
GR	1849.8	9749.5	1849.9	9766.9	1849.6	9784.7	1849.4	9804.7	1849.2	9824.4
GR	1849.0	9840.9	1848.3	9856.5	1848.4	9868.7	1848.7	9881.2	1848.5	9896.8
GR	1848.4	9913.5	1848.3	9928.1	1848.3	9941.0	1848.0	9954.5	1847.3	9966.5
GR	1846.3	9977.4	1845.6	9984.9	1843.7	9993.8	1843.8	10000.0	1843.8	10000.1
GR	1843.3	10010.4	1844.3	10015.1	1846.5	10022.5	1847.2	10031.7	1846.8	10041.0
GR	1847.6	10051.1	1848.1	10065.6	1849.0	10083.6	1849.2	10101.2	1849.7	10116.2
GR	1849.8	10132.5	1850.1	10147.9						
NC	0.0	0.0	0.0	0.3	0.5					
ET			9.1						9967.0	10089.0

N VALUES AND COEFF. FROM R\PREVIOUS WLB STUDY

X1	17.425	36	9970.2	10025.9	300.0	325.0	320.0	1.0	0.0	0
GR	1855.6	9955.4	1855.6	9955.5	1855.2	9960.3	1852.0	9970.2	1849.1	9978.4
GR	1845.7	9983.1	1845.7	9987.5	1846.1	9994.2	1847.2	9999.9	1846.4	10000.0

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GR   1846.4   10000.1   1848.3   10006.1   1849.8   10011.3   1849.5   10017.4   1850.3   10025.9
GR   1850.6   10035.0   1850.5   10045.0   1850.2   10055.3   1850.7   10065.0   1852.0   10073.2
GR   1852.9   10081.6   1853.1   10088.6   1852.1   10095.0   1852.0   10106.5   1852.3   10129.3
GR   1852.3   10146.2   1852.3   10165.9   1851.9   10183.5   1852.0   10199.2   1852.1   10215.3
GR   1852.3   10231.3   1852.4   10248.0   1852.8   10262.6   1853.3   10277.6   1854.1   10287.7
GR   1854.2   10295.6

NC    0.080     0.080     0.050       0.0       0.0
ET                          9.1                                                   9890.0   10037.0
N VALUES FROM PREVIOSUS STUDY BY OTHERS

X1   17.476        30    9893.7   10027.4     270.0     270.0     270.0       1.0       0.0         0
GR   1859.4    9816.8    1859.4    9838.8    1859.1    9854.7    1858.6    9869.2    1858.3    9879.8
GR   1857.2    9887.0    1851.5    9893.7    1850.8    9908.5    1851.4    9920.3    1851.1    9932.3
GR   1851.4    9942.6    1851.2    9952.7    1851.1    9965.9    1850.3    9975.6    1849.0    9982.5
GR   1849.1    9988.5    1848.9   10000.0    1848.9   10000.1    1849.4   10009.2    1850.3   10012.6
GR   1850.1   10020.4    1851.5   10027.4    1856.3   10040.2    1859.8   10051.7    1859.7   10061.2
GR   1859.4   10070.8    1859.8   10083.6    1859.6   10096.8    1860.0   10115.7    1860.0   10134.8
     STATUS: Analyzing profile 1.

     STATUS: Analyzing cross-section reach 10.445.

     WARNING: (3720) Critical depth has been assumed.
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LOCATED IN CAP OVERCHUTE - S. EDGE OF DIST BSN

Cross Section Number SECNO	Left Overbank Manning XNL	Channel Manning n XNCH	Right Overbank Manning XNR	Flow Depth DEPTH (ft)	Water Surface Elevation CWSEL (ft MSL)	Critical W. S. Elevation CRIWS (ft MSL)	Known W. S. Elevation WSELK (ft MSL)
Energy Gradient SLOPE (ft/ft)	Left Overbank Length XLOBL (ft)	Channel Length XLCH (ft)	Right Overbank Length XLOBR (ft)	Energy Gradient Elevation EG (ft MSL)	Weighted Velocity Head HV (ft)	Friction Energy Loss HL (ft)	Other Energy Loss OLOSS (ft)
Cummul-ative Volume VOL (acre-ft)	Left Overbank Area ALOB (sq ft)	Channel Area ACH (sq ft)	Right Overbank Area AROB (sq ft)	Bridge Deck Area CORAR (sq ft)	Left Bank Elevation LTBNK (ft MSL)	Right Bank Elevation RTBNK (ft MSL)	Number of Balance Trials ITRIAL
Total Flow Q (cfs)	Left Overbank Flow QLOB (cfs)	Channel Flow QCH (cfs)	Right Overbank Flow QROB (cfs)	Computed W. S. Top Width TOPWD (ft)	Left W. S. Station SSTA (ft)	Right W. S. Station ENDST (ft)	Number of Crit Dpth Trials IDC
Flow Travel Time TIME (hrs)	Left Overbank Velocity VLOB (ft/s)	Channel Mean Velocity VCH (ft/s)	Right Overbank Velocity VROB (ft/s)	Length Weighted Manning n WTN	Cummul. Surface Area TWA (acres)	Minimum C. S. Elevation ELMIN (ft MSL)	Number of Other Trials ICONT
10.445	.000	.015	.000	2.94	1545.51	1545.51	1545.51
.002451	0	0	0	1546.98	1.47	.00	.00
.00	0	395	0	.00	1549.60	1549.60	0
3851	0	3850	0	135.6	9932.20	10067.80	5
.00	.00	9.74	.00	.000	.0	1542.57	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	10.445
Total Discharge (cfs, Q)	3851
Computed Water Surface Elevation (ft MSL, CWSEL)	1545.51

Station (ft) = 9932.2 10067.8
Flow (%) = 100.0
Area (sq ft) = 395.6
Vel (ft/s) = 9.74
Depth (ft) = 2.92

STATUS: Analyzing cross-section reach 10.450.

WARNING: (3685) 20 trials attempted in balancing assumed water surface elevation (WSEL) and computed water surface elevation (CWSEL).

WARNING: (3693) It is probable that critical depth has been crossed.

WARNING: (3720) Critical depth has been assumed.

LOCATED IN CAP OVERCHUTE @ N EDGE DIST. BASIN

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.450	.000	.015	.000	2.96	1547.69	1547.69	.00
.002443	27	27	27	1549.16	1.47	.07	.00
.25	0	396	0	.00	1551.70	1551.70	20
3851	0	3850	0	135.6	9932.20	10067.80	5
.00	.00	9.72	.00	.000	.1	1544.73	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.450
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1547.69

Station (ft) = 9932.2 10067.8
Flow (%) = 100.0
Area (sq ft) = 396.0
Vel (ft/s) = 9.72
Depth (ft) = 2.92

Contraction Coefficient (CCHV) .100

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 10.468.

LOCATED @ ANG PT ON N. SIDE OF OVERCHUTE 26'S.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.468	.000	.015	.000	3.56	1548.36	.00	.00
.001334	96	96	96	1549.37	1.01	.17	.05
1.21	0	476	0	.00	1551.80	1551.80	4
3851	0	3850	0	135.6	9932.20	10067.80	0
.00	.00	8.08	.00	.000	.4	1544.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.468
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1548.36

Station (ft) = 9932.2 10067.8
Flow (%) = 100.0
Area (sq ft) = 476.4
Vel (ft/s) = 8.08
Depth (ft) = 3.51

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 10.473.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.56

10.473	.000	.015	.000	4.22	1549.02	.00	.00
.000550	26	26	26	1549.54	.53	.02	.15
1.55	0	662	0	.00	1551.90	1551.80	3
3851	0	3850	0	158.7	9920.64	10079.36	0
.01	.00	5.82	.00	.000	.5	1544.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.473
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1549.02

Station (ft) = 9920.6 10079.4
Flow (%) = 100.0
Area (sq ft) = 662.0
Vel (ft/s) = 5.82
Depth (ft) = 4.17

Contraction Coefficient (CCHV) .600

Expansion Coefficient (CEHV) .800

STATUS: Analyzing cross-section reach 10.474.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .24

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.474	.085	.055	.090	4.10	1549.00	.00	.00
.009843	10	5	10	1549.63	.63	.01	.08
1.62	13	591	17	.00	1545.90	1545.70	2
3851	29	3782	38	179.4	9910.94	10090.30	0
.01	2.23	6.40	2.22	.000	.5	1544.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.474
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1549.00

Station (ft) = 9910.9 9919.6 10079.9 10090.3
Flow (%) = .8 98.2 1.0
Area (sq ft) = 13.4 591.2 17.2
Vel (ft/s) = 2.23 6.40 2.22
Depth (ft) = 1.55 3.69 1.65

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 10.479.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.479	.085	.055	.090	4.81	1549.51	.00	.00
.005714	30	25	45	1549.89	.38	.19	.07
2.05	10	766	10	.00	1546.30	1546.60	2
3851	17	3816	16	215.3	9895.30	10110.60	0
.01	1.69	4.98	1.53	.000	.6	1544.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.479
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1549.51

Station (ft) =	9895.3	9901.8	10103.2	10110.6
Flow (%) =	.5	99.1	.4	
Area (sq ft) =	10.5	766.9	10.8	
Vel (ft/s) =	1.69	4.98	1.53	
Depth (ft) =	1.61	3.81	1.46	

Contraction Coefficient (CCHV) .100

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 10.528.

10.528	.085	.055	.090	6.36	1550.96	.00	.00
.005274	235	260	290	1551.30	.34	1.41	.00
7.27	480	466	54	.00	1548.30	1549.60	2
3851	1232	2546	71	374.2	9740.31	10114.50	0
.02	2.57	5.46	1.32	.000	2.3	1544.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.528
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1550.96

Station (ft) =	9740.3	9824.8	9843.8	9861.1	9875.4	9894.5
Flow (%) =	3.2	5.0	3.1	4.3	4.8	
Area (sq ft) =	67.2	66.0	47.5	54.1	64.7	
Vel (ft/s) =	1.83	2.91	2.49	3.08	2.87	
Depth (ft) =	.80	3.47	2.75	3.78	3.39	

Station (ft) =	9894.5	9924.3	9948.9	9960.9	10060.7	10114.5
Flow (%) =	5.5	4.1	2.0	66.1	1.9	
Area (sq ft) =	83.4	65.4	31.9	466.8	54.2	
Vel (ft/s) =	2.52	2.44	2.44	5.46	1.32	
Depth (ft) =	2.80	2.66	2.66	4.68	1.01	

STATUS: Analyzing cross-section reach 10.592.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.592	.085	.055	.090	7.13	1552.73	.00	.00
.004155	350	340	345	1552.92	.19	1.60	.02
16.72	436	287	658	.00	1550.00	1550.40	2
3851	978	1421	1451	499.7	9791.37	10291.09	0
.05	2.24	4.94	2.20	.000	5.8	1545.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	10.592
Total Discharge (cfs, Q)	3851
Computed Water Surface Elevation (ft MSL, CWSEL)	1552.73

Station (ft) =	9791.4	9848.0	9871.2	9898.9	9925.5	9949.2
Flow (%) =	3.0	3.0	4.3	5.0	4.9	
Area (sq ft) =	71.7	56.7	74.9	81.4	77.0	
Vel (ft/s) =	1.62	2.05	2.19	2.38	2.48	
Depth (ft) =	1.27	2.44	2.71	3.06	3.25	

Station (ft) =	9949.2	9970.4	10029.0	10053.9	10063.8	10084.2
Flow (%) =	5.1	36.9	4.5	3.9	4.3	
Area (sq ft) =	75.2	287.9	76.7	49.1	69.4	
Vel (ft/s) =	2.64	4.94	2.28	3.04	2.41	
Depth (ft) =	3.55	4.91	3.08	4.96	3.40	

Station (ft) =	10084.2	10095.1	10111.2	10140.5	10157.5	10175.5
Flow (%) =	3.2	4.0	3.8	3.2	3.9	
Area (sq ft) =	45.3	59.7	74.1	54.0	61.6	
Vel (ft/s) =	2.74	2.58	1.99	2.30	2.42	
Depth (ft) =	4.16	3.71	2.53	3.18	3.42	

Station (ft) =	10175.5	10202.1	10280.6	10291.1
Flow (%) =	3.7	3.0	.1	
Area (sq ft) =	69.8	95.0	3.8	
Vel (ft/s) =	2.05	1.22	.54	
Depth (ft) =	2.62	1.21	.37	

STATUS: Analyzing cross-section reach 10.683.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.683	.085	.055	.090	7.02	1555.12	.00	.00
.007358	505	480	475	1555.64	.52	2.62	.10
29.02	256	406	158	.00	1553.30	1552.80	2
3851	646	2706	498	263.6	9816.94	10080.56	0
.08	2.52	6.66	3.15	.000	10.1	1548.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.683
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1555.12

Station (ft) =	9816.9	9863.5	9893.7	9921.8	9942.1	10023.6
Flow (%) =	4.5	5.2	4.5	2.6	70.3	
Area (sq ft) =	76.0	73.4	65.3	41.6	406.3	
Vel (ft/s) =	2.28	2.72	2.65	2.42	6.66	
Depth (ft) =	1.63	2.43	2.32	2.05	4.99	

Station (ft) =	10023.6	10035.0	10043.0	10060.7	10080.6
Flow (%) =	3.7	3.6	4.7	.9	
Area (sq ft) =	42.0	36.1	58.0	22.1	
Vel (ft/s) =	3.39	3.86	3.15	1.52	
Depth (ft) =	3.68	4.52	3.27	1.11	

STATUS: Analyzing cross-section reach 10.761.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9942.50
Right Encroachment Station (ft, STENCR) 10121.70
Encroachment Method (TYPE) 1
Width or Percent Target 179.200

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.761	.085	.055	.090	7.19	1557.99	.00	.00
.006907	380	410	465	1558.60	.60	2.93	.02
36.10	79	548	51	.00	1554.60	1555.60	2
3851	207	3541	102	179.2	9942.50	10121.70	0
.10	2.59	6.46	1.98	.000	12.2	1550.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.761
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1557.99

Station (ft) =	9942.5	9951.6	9963.3	9972.5	9982.0	10092.7
Flow (%) =	.2	.9	1.7	2.5	92.0	
Area (sq ft) =	7.2	17.5	24.3	30.8	548.6	
Vel (ft/s) =	1.18	1.89	2.77	3.18	6.46	
Depth (ft) =	.79	1.49	2.64	3.24	4.96	

Station (ft) =	10092.7	10107.9	10121.7
Flow (%) =	1.7	.9	
Area (sq ft) =	30.3	21.3	
Vel (ft/s) =	2.17	1.71	
Depth (ft) =	1.99	1.54	

STATUS: Analyzing cross-section reach 10.815.

10.815	.085	.055	.090	7.13	1559.73	.00	.00
.004390	295	285	300	1560.17	.44	1.56	.02
41.00	83	621	101	.00	1556.50	1556.10	2
3851	188	3462	199	207.1	9930.78	10137.93	0
.11	2.25	5.57	1.97	.000	13.4	1552.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.815
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1559.73

Station (ft) =	9930.8	9965.0	9972.9	10083.6	10104.9	10137.9
Flow (%) =	3.3	1.6	89.9	4.1	1.1	
Area (sq ft) =	59.2	24.7	621.7	66.5	34.7	
Vel (ft/s) =	2.15	2.47	5.57	2.35	1.26	
Depth (ft) =	1.73	3.13	5.62	3.12	1.05	

STATUS: Analyzing cross-section reach 10.876.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .55

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.876	.085	.050	.090	6.71	1561.11	.00	.00
.014113	320	320	34	1562.41	1.30	1.98	.26
44.77	22	262	226	.00	1558.10	1558.70	2
3805	67	2736	1001	136.3	9951.86	10088.17	0
.12	3.04	10.43	4.42	.000	14.3	1554.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.876
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1561.11

Station (ft) =	9951.9	9967.0	10017.3	10031.2	10041.6	10050.7
Flow (%) =	1.8	71.9	4.8	3.7	4.3	
Area (sq ft) =	22.1	262.4	43.7	33.1	34.7	
Vel (ft/s) =	3.04	10.43	4.20	4.24	4.68	
Depth (ft) =	1.46	5.22	3.14	3.18	3.81	

Station (ft) =	10050.7	10058.3	10071.1	10088.2
Flow (%) =	5.5	4.8	3.2	
Area (sq ft) =	37.4	42.3	35.4	
Vel (ft/s) =	5.63	4.30	3.45	
Depth (ft) =	4.92	3.31	2.08	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 10.945.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.17

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.945	.069	.063	.090	7.27	1564.37	.00	.00
.002997	365	365	370	1564.57	.20	2.06	.11
51.84	370	563	236	.00	1560.90	1559.80	2
3805	1072	2315	416	317.1	9833.91	10150.99	0
.15	2.89	4.11	1.76	.000	16.2	1557.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.945
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1564.37

Station (ft) =	9833.9	9867.5	9883.9	9900.1	9912.3	9917.9
Flow (%) =	3.4	3.9	4.5	5.5	4.2	
Area (sq ft) =	68.3	61.2	65.6	55.9	33.4	
Vel (ft/s) =	1.90	2.45	2.58	3.73	4.81	
Depth (ft) =	2.03	3.73	4.05	4.58	5.96	

Station (ft) =	9917.9	9927.4	9940.3	9959.8	10011.3	10038.9
Flow (%) =	4.2	2.5	4.3	45.1	11.4	
Area (sq ft) =	41.3	45.1	74.7	335.1	153.7	
Vel (ft/s) =	3.89	2.08	2.21	5.12	2.83	
Depth (ft) =	4.35	3.49	3.83	6.51	5.57	

Station (ft) =	10038.9	10052.5	10069.2	10112.4	10151.0
Flow (%) =	3.6	3.2	3.1	1.1	
Area (sq ft) =	58.2	58.0	82.1	38.6	
Vel (ft/s) =	2.38	2.08	1.42	1.06	
Depth (ft) =	4.28	3.47	1.90	1.00	

STATUS: Analyzing cross-section reach 11.006.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.006	.080	.050	.080	7.24	1565.44	.00	.00
.004019	315	325	350	1565.74	.30	1.14	.03
60.35	115	326	616	.00	1562.30	1562.50	3
3805	271	1844	1688	296.7	9926.91	10223.62	0
.17	2.35	5.64	2.74	.000	18.6	1558.20	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.006
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1565.44

Station (ft) =	9926.9	9965.8	9979.0	10041.0	10060.9	10069.5
Flow (%) =	4.2	2.9	48.5	4.6	3.4	
Area (sq ft) =	72.5	43.2	326.9	66.6	40.0	
Vel (ft/s) =	2.21	2.59	5.64	2.65	3.28	
Depth (ft) =	1.86	3.27	5.27	3.35	4.65	

Station (ft) =	10069.5	10087.9	10165.0	10200.0	10223.6
Flow (%) =	3.3	19.5	10.7	2.8	
Area (sq ft) =	52.8	267.7	138.1	51.5	
Vel (ft/s) =	2.40	2.77	2.94	2.07	
Depth (ft) =	2.87	3.47	3.95	2.18	

STATUS: Analyzing cross-section reach 11.062.

11.062	.080	.050	.080	6.66	1566.66	.00	.00
.004086	310	295	275	1566.92	.25	1.17	.00
67.73	314	242	624	.00	1563.90	1564.10	2
3805	841	1392	1571	358.4	9880.06	10238.45	0
.19	2.68	5.74	2.52	.000	20.7	1560.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.062
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1566.66

Station (ft) =	9880.1	9909.6	9920.4	9928.9	9946.7	9966.0
Flow (%) =	4.7	4.2	3.3	3.6	3.8	
Area (sq ft) =	74.1	49.4	39.1	55.0	57.9	
Vel (ft/s) =	2.39	3.25	3.23	2.52	2.47	
Depth (ft) =	2.51	4.57	4.61	3.09	3.00	

Station (ft) =	9966.0	9978.7	10023.1	10048.1	10068.6	10082.4
Flow (%) =	2.5	36.6	3.3	3.2	4.1	
Area (sq ft) =	38.6	242.4	59.8	53.7	52.9	
Vel (ft/s) =	2.49	5.74	2.13	2.26	2.93	
Depth (ft) =	3.04	5.46	2.39	2.62	3.83	

Station (ft) =	10082.4	10092.9	10113.7	10131.8	10158.2	10172.9
Flow (%) =	4.1	3.5	3.3	5.1	3.4	
Area (sq ft) =	48.2	57.5	51.8	78.7	48.7	
Vel (ft/s) =	3.21	2.34	2.39	2.46	2.64	
Depth (ft) =	4.59	2.76	2.86	2.98	3.31	

Station (ft) =	10172.9	10191.4	10211.7	10238.4
Flow (%) =	4.9	4.6	1.9	
Area (sq ft) =	66.8	66.7	39.8	
Vel (ft/s) =	2.79	2.63	1.78	
Depth (ft) =	3.61	3.29	1.49	

STATUS: Analyzing cross-section reach 11.118.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.118	.080	.050	.080	6.80	1567.90	.00	.00
.004466	320	295	270	1568.19	.29	1.26	.01
75.42	444	420	233	.00	1565.90	1565.70	2
3805	1097	2221	486	380.1	9797.97	10178.08	0
.21	2.47	5.28	2.09	.000	23.2	1561.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.118
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1567.90

Station (ft) =	9798.0	9838.5	9861.9	9893.6	9913.5	9930.1
Flow (%) =	5.3	3.4	4.6	4.9	4.3	
Area (sq ft) =	89.7	57.3	77.9	66.6	57.8	
Vel (ft/s) =	2.27	2.26	2.27	2.78	2.85	
Depth (ft) =	2.21	2.45	2.46	3.35	3.48	

Station (ft) =	9930.1	9948.1	9964.4	10060.4	10080.7	10107.7
Flow (%) =	4.2	2.0	58.4	3.2	4.6	
Area (sq ft) =	58.9	36.2	420.6	52.1	72.4	
Vel (ft/s) =	2.74	2.11	5.28	2.35	2.40	
Depth (ft) =	3.27	2.22	4.38	2.57	2.68	

Station (ft) =	10107.7	10146.1	10178.1
Flow (%) =	3.3	1.7	
Area (sq ft) =	68.7	39.9	
Vel (ft/s) =	1.84	1.62	
Depth (ft) =	1.79	1.25	

STATUS: Analyzing cross-section reach 11.190.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .65

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.190	.080	.055	.085	6.62	1570.12	.00	.00
.010525	420	380	335	1570.89	.77	2.56	.14
83.18	353	269	3	.00	1566.50	1568.80	2
3805	1540	2260	4	164.8	9879.45	10044.23	0
.23	4.35	8.38	1.33	.000	25.6	1563.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.190
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1570.12

Station (ft) =	9879.4	9903.0	9913.3	9926.0	9934.1	9948.5
Flow (%) =	4.1	4.0	4.1	3.6	5.0	
Area (sq ft) =	45.1	35.3	38.9	30.0	46.0	
Vel (ft/s) =	3.45	4.33	4.01	4.56	4.13	
Depth (ft) =	1.91	3.43	3.06	3.71	3.19	

Station (ft) =	9948.5	9958.9	9967.9	9974.6	9983.0	9989.5
Flow (%) =	3.8	3.9	4.6	4.6	2.7	
Area (sq ft) =	34.3	33.1	32.5	35.5	23.1	
Vel (ft/s) =	4.23	4.53	5.42	4.94	4.44	
Depth (ft) =	3.30	3.68	4.85	4.22	3.56	

Station (ft) =	9989.5	10039.5	10044.2
Flow (%) =		59.4	.1
Area (sq ft) =		269.7	3.1
Vel (ft/s) =		8.38	1.33
Depth (ft) =		5.39	.66

STATUS: Analyzing cross-section reach 11.259.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.41

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.259	.085	.055	.085	6.94	1573.04	.00	.00
.005282	310	365	395	1573.40	.36	2.47	.04
89.18	571	341	28	.00	1569.30	1569.20	2
3805	1713	2037	54	279.1	9775.06	10054.18	0
.25	3.00	5.97	1.92	.000	27.3	1566.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.259
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1573.04

Station (ft) =	9775.1	9834.4	9859.4	9910.9	9920.7	9930.2
Flow (%) =	7.7	5.0	3.6	3.3	3.9	
Area (sq ft) =	116.2	73.6	78.2	39.5	43.2	
Vel (ft/s) =	2.51	2.60	1.76	3.20	3.45	
Depth (ft) =	1.96	2.94	1.52	4.03	4.55	

Station (ft) =	9930.2	9937.0	9940.9	9947.1	9960.2	9976.1
Flow (%) =	5.1	3.1	3.7	4.7	5.0	
Area (sq ft) =	44.5	25.9	35.3	54.4	60.7	
Vel (ft/s) =	4.36	4.49	3.96	3.28	3.10	
Depth (ft) =	6.54	6.64	5.69	4.15	3.82	

Station (ft) =	9976.1	10039.5	10054.2
Flow (%) =		53.5	1.4
Area (sq ft) =		341.0	28.2
Vel (ft/s) =		5.97	1.92
Depth (ft) =		5.38	1.92

STATUS: Analyzing cross-section reach 11.351.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.351	.085	.050	.085	7.15	1575.45	.00	.00
.005083	460	485	515	1575.90	.46	2.47	.03
99.43	479	345	120	.00	1572.00	1571.90	3
3805	1179	2304	321	312.6	9765.51	10078.07	0
.28	2.46	6.67	2.67	.000	30.5	1568.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.351
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1575.45

Station (ft) =	9765.5	9814.7	9841.7	9865.4	9908.3	9932.3
Flow (%) =	3.3	3.8	3.6	3.3	3.8	
Area (sq ft) =	72.0	65.0	59.2	68.8	58.6	
Vel (ft/s) =	1.73	2.24	2.30	1.81	2.45	
Depth (ft) =	1.46	2.41	2.50	1.60	2.44	

Station (ft) =	9932.3	9944.9	9956.6	9966.4	9969.6	10030.3
Flow (%) =	4.1	4.7	3.7	.8	60.6	
Area (sq ft) =	49.6	52.5	42.8	11.0	345.4	
Vel (ft/s) =	3.11	3.38	3.31	2.85	6.67	
Depth (ft) =	3.94	4.49	4.37	3.45	5.69	

Station (ft) =	10030.3	10043.1	10055.8	10078.1
Flow (%) =	3.8	3.5	1.1	
Area (sq ft) =	47.9	45.9	26.4	
Vel (ft/s) =	3.00	2.93	1.63	
Depth (ft) =	3.74	3.61	1.19	

STATUS: Analyzing cross-section reach 11.426.

11.426	.080	.050	.080	6.51	1577.21	.00	.00
.002719	440	395	370	1577.39	.18	1.46	.03
110.58	440	333	686	.00	1573.60	1573.90	2
3805	950	1592	1261	502.0	9832.00	10334.04	0
.31	2.16	4.77	1.84	.000	34.3	1570.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.426
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1577.21

Station (ft) =	9832.0	9867.0	9883.3	9901.4	9923.3	9946.6
Flow (%) =	3.7	3.4	4.0	3.6	4.3	
Area (sq ft) =	80.9	57.2	66.2	67.5	76.3	
Vel (ft/s) =	1.76	2.24	2.30	2.05	2.15	
Depth (ft) =	2.31	3.51	3.66	3.08	3.28	

Station (ft) =	9946.6	9960.4	9969.6	10030.9	10052.8	10095.2
Flow (%) =	3.9	2.1	41.9	3.0	3.5	
Area (sq ft) =	58.1	34.2	333.8	60.1	85.2	
Vel (ft/s) =	2.52	2.32	4.77	1.91	1.57	
Depth (ft) =	4.21	3.71	5.44	2.74	2.01	

Station (ft) =	10095.2	10165.6	10187.5	10211.5	10247.2	10279.0
Flow (%) =	3.2	3.7	3.9	3.5	5.6	
Area (sq ft) =	88.0	67.6	73.3	78.0	101.6	
Vel (ft/s) =	1.40	2.06	2.04	1.70	2.10	
Depth (ft) =	1.25	3.09	3.05	2.19	3.19	

Station (ft) =	10279.0	10308.1	10334.0
Flow (%) =	5.3	1.4	
Area (sq ft) =	94.8	37.4	
Vel (ft/s) =	2.13	1.40	
Depth (ft) =	3.26	1.44	

STATUS: Analyzing cross-section reach 11.515.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .50

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.515	.085	.050	.085	5.45	1579.05	.00	.00
.010922	500	470	460	1579.89	.84	2.30	.20
122.03	262	347	23	.00	1576.40	1575.90	1
3805	877	2864	63	209.0	9821.37	10030.39	0
.33	3.34	8.24	2.71	.000	38.2	1573.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.515
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1579.05

Station (ft) =	9821.4	9854.0	9869.9	9883.0	9905.1	9921.3
Flow (%) =	3.6	5.0	3.8	3.5	3.2	
Area (sq ft) =	52.4	48.5	38.6	45.1	38.0	
Vel (ft/s) =	2.63	3.91	3.78	2.94	3.24	
Depth (ft) =	1.61	3.05	2.94	2.04	2.35	

Station (ft) =	9921.3	9935.2	10015.1	10030.4
Flow (%) =	3.9	75.3	1.7	
Area (sq ft) =	40.2	347.6	23.4	
Vel (ft/s) =	3.70	8.24	2.71	
Depth (ft) =	2.89	4.35	1.53	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 11.554.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

11.554	.066	.055	.080	5.79	1581.19	.00	.00
.006079	175	205	225	1581.50	.32	1.56	.05
125.60	450	190	311	.00	1577.50	1578.80	2
3805	1955	1099	749	328.6	9844.63	10173.22	0
.34	4.34	5.78	2.40	.000	39.4	1575.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.554
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1581.19

Station (ft) =	9844.6	9870.1	9886.1	9897.0	9902.3	9916.3
Flow (%) =	3.2	3.6	3.9	3.2	6.7	
Area (sq ft) =	49.2	46.4	39.1	25.6	59.1	
Vel (ft/s) =	2.51	2.95	3.75	4.73	4.32	

Depth (ft)	=	1.93	2.90	3.59	4.83	4.22

Station (ft) =	9916.3	9932.8	9946.2	9953.8	9961.2	9967.7
Flow (%) =	4.4	7.7	6.0	6.0	4.6	
Area (sq ft) =	47.4	57.3	39.4	39.1	31.7	
Vel (ft/s) =	3.55	5.08	5.78	5.85	5.53	
Depth (ft) =	2.87	4.27	5.18	5.28	4.88	

Station (ft) =	9967.7	9971.8	10013.0	10048.2	10071.0	10090.9
Flow (%) =	2.1	28.9	3.1	3.4	4.1	
Area (sq ft) =	16.7	190.4	53.2	51.0	54.5	
Vel (ft/s) =	4.87	5.78	2.20	2.51	2.84	
Depth (ft) =	4.08	4.62	1.51	2.24	2.74	

Station (ft) =	10090.9	10120.9	10150.2	10173.2
Flow (%) =	3.0	4.2	2.0	
Area (sq ft) =	52.2	64.4	36.6	
Vel (ft/s) =	2.20	2.45	2.10	
Depth (ft) =	1.74	2.20	1.59	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 11.626.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.626	.062	.050	.080	6.51	1583.31	.00	.00
.005772	375	380	395	1583.82	.51	2.26	.06
133.53	186	348	314	.00	1581.40	1580.70	3
3805	675	2382	747	299.3	9891.79	10191.07	0
.36	3.61	6.84	2.38	.000	42.2	1576.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.626
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1583.31

Station (ft) =	9891.8	9920.6	9934.4	9939.8	9959.4	9963.8
Flow (%) =	3.8	3.5	3.3	6.5	.6	
Area (sq ft) =	55.6	36.6	25.0	61.2	8.4	
Vel (ft/s) =	2.59	3.62	5.03	4.06	2.90	
Depth (ft) =	1.93	2.65	4.63	3.12	1.91	

Station (ft) =	9963.8	10028.1	10044.9	10065.4	10089.5	10155.0
Flow (%) =	62.6	3.3	3.4	4.3	7.9	
Area (sq ft) =	348.5	45.8	50.8	62.1	131.9	
Vel (ft/s) =	6.84	2.75	2.58	2.65	2.28	
Depth (ft) =	5.42	2.73	2.48	2.58	2.01	

Station (ft) =	10155.0	10191.1
Flow (%) =	.7	
Area (sq ft) =	23.7	
Vel (ft/s) =	1.06	
Depth (ft) =	.66	

Contraction Coefficient (CCHV) .100

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 11.688.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.688	.080	.060	.085	6.86	1585.56	.00	.00
.007967	360	330	315	1586.07	.52	2.25	.00
139.91	322	434	45	.00	1582.80	1582.90	2
3805	867	2833	104	287.1	9791.28	10078.40	0
.38	2.69	6.52	2.29	.000	44.4	1578.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.688
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1585.56

Station (ft) =	9791.3	9839.9	9883.0	9909.9	9928.6	9951.5
Flow (%) =	3.6	4.5	4.1	3.8	4.0	
Area (sq ft) =	60.9	71.7	57.3	46.9	52.9	
Vel (ft/s) =	2.23	2.41	2.75	3.06	2.90	
Depth (ft) =	1.25	1.66	2.13	2.51	2.31	

Station (ft) =	9951.5	9963.5	10048.1	10078.4
Flow (%) =	2.7	74.5	2.7	
Area (sq ft) =	32.5	434.8	45.5	
Vel (ft/s) =	3.22	6.52	2.29	
Depth (ft) =	2.71	5.14	1.50	

Contraction Coefficient (CCHV) .600

Expansion Coefficient (CEHV) .800

STATUS: Analyzing cross-section reach 11.722.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.28

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.722	.085	.050	.085	8.04	1586.54	.00	.00
.001530	160	180	200	1586.77	.23	.53	.17
144.09	200	807	243	.00	1582.50	1582.20	2
3805	171	3330	303	472.2	9707.61	10179.77	0
.39	.86	4.12	1.25	.000	46.0	1578.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.722
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1586.54

Station (ft) =	9707.6	9740.0	9790.0	9830.0	9870.0	9894.0
Flow (%) =	.1	.6	.5	.1	.3	
Area (sq ft) =	8.7	39.5	31.6	13.6	19.0	
Vel (ft/s) =	.29	.58	.58	.33	.58	
Depth (ft) =	.27	.79	.79	.34	.79	

Station (ft) =	9894.0	9919.0	9930.0	10050.0	10085.0	10122.0
Flow (%) =	1.5	1.5	87.5	5.0	2.2	
Area (sq ft) =	51.0	36.7	807.4	122.1	75.5	
Vel (ft/s) =	1.10	1.52	4.12	1.57	1.10	
Depth (ft) =	2.04	3.34	6.73	3.49	2.04	

Station (ft) =	10122.0	10172.0	10179.8
Flow (%) =	.7	.0	
Area (sq ft) =	44.5	1.3	
Vel (ft/s) =	.63	.21	
Depth (ft) =	.89	.17	

STATUS: Special culvert analysis being performed.

CULVERT DESCRIPTION :

Number of Identical Culverts (CUNO)	8
Culvert Mannings n (CUNV)	.032
Culvert Entrance Loss Coefficient (ENTLC)	.800
Pipe Culvert Diameter (ft, RISE)	5.66
Culvert Length (ft, CULVLN)	60.00
Culvert Opening Upstream Invert (ft MSL, ELCHU)	1578.60
Culvert Opening Downstream Invert (ft MSL, ELCHD)	1578.40
Roadway Length (ft, RDLEN)	.00
Roadway Weir Flow Discharge Coefficient (COFQ)	3.00

Chart # 2 - corrugated metal pipe culvert

Scale # 3 - pipe projecting from fill

WARNING: (5130) Inlet control energy grade line elevation 1601.41 ft MSL may be too large if inlet controls.

WARNING: (5135) Outlet control energy grade line elevation 1602.79 ft MSL may be too large if outlet controls.

STATUS: Analyzing cross-section reach 11.734.

STATUS: Special culvert outlet control and weir flow.

Energy Gradient Elevation (ft MSL, EG) 1587.76

CULVERT ANALYSIS RESULTS :

Inlet Control Energy Grade Line Elevation (ft MSL, EGIC)	1601.41
Outlet Control Energy Grade Line Elevation (ft MSL, EGOC)	1602.79
Water Surface Drop Through Culvert (ft, H4)	.98
Total Weir Flow (cfs, QWEIR)	2745.
Total Culvert Flow (cfs, QCULV)	1042.
Mean Channel Velocity (fps, VCH)	3.19
Culvert Opening Area (sq ft, ACULV)	201.3
Top of Roadway Elevation (ft MSL, ELTRD)	1584.90
Roadway Weir Length (ft, WEIRLN)	539.0

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.734	.085	.050	.085	8.61	1587.61	.00	.00
.000821	60	60	60	1587.76	.14	.98	.00
146.05	319	1082	190	.00	1582.80	1584.90	2
3805	207	3453	144	532.2	9660.25	10192.40	0
.40	.65	3.19	.76	.000	46.6	1579.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.734
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1587.61

Station (ft) =	9660.2	9868.1	9928.3	10077.0	10167.0	10192.4
Flow (%) =	3.3	2.2	90.8	3.6	.2	
Area (sq ft) =	216.2	103.1	1082.4	172.5	18.2	
Vel (ft/s) =	.58	.80	3.19	.79	.42	
Depth (ft) =	1.04	1.71	7.28	1.92	.72	

STATUS: Analyzing cross-section reach 11.811.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3685) 20 trials attempted in balancing assumed water surface elevation (WSEL) and computed water surface elevation (CWSEL).

WARNING: (3693) It is probable that critical depth has been crossed.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 1587.00
Right Overbank Elevation (ft, RBEL) 1589.40

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.811	.080	.050	.000	6.42	1589.32	1589.32	.00
.018229	480	410	365	1590.74	1.42	.92	1.02
156.11	180	299	0	.00	1587.00	1589.40	20
3756	647	3108	0	180.0	9842.73	10022.72	19
.41	3.60	10.38	.00	.000	50.2	1582.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.811
Total Discharge (cfs, Q) 3756
Computed Water Surface Elevation (ft MSL, CWSEL) 1589.32

Station (ft) =	9842.7	9853.0	9881.8	9898.6	9921.3	9927.9
Flow (%) =	.8	6.0	2.4	1.7	.8	
Area (sq ft) =	10.5	56.9	26.5	24.4	9.7	
Vel (ft/s) =	2.76	3.95	3.39	2.63	3.21	
Depth (ft) =	1.02	1.97	1.57	1.07	1.47	

Station (ft) =	9927.9	9934.6	9943.9	9953.6	10022.8
Flow (%) =	1.4	1.8	2.3	82.8	
Area (sq ft) =	13.6	17.9	20.6	299.4	
Vel (ft/s) =	4.01	3.88	4.14	10.38	
Depth (ft) =	2.02	1.92	2.12	4.33	

Contraction Coefficient (CCHV) .100

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 11.876.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.12

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.876	.080	.050	.080	8.55	1593.15	.00	.00
.004054	295	340	390	1593.45	.31	2.60	.11
162.07	33	368	589	.00	1590.00	1592.10	4
3756	62	2009	1684	262.9	9956.52	10219.46	0
.43	1.83	5.46	2.86	.000	52.0	1584.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.876
Total Discharge (cfs, Q) 3756
Computed Water Surface Elevation (ft MSL, CWSEL) 1593.15

Station (ft) =	9956.5	9978.9	10051.6	10080.4	10091.4	10111.2
Flow (%) =	1.7	53.5	4.5	4.2	6.2	
Area (sq ft) =	33.8	368.2	70.8	48.9	78.9	
Vel (ft/s) =	1.83	5.46	2.37	3.20	2.97	
Depth (ft) =	1.51	5.06	2.46	4.45	3.98	

Station (ft) =	10111.2	10131.5	10144.2	10165.8	10179.1	10194.2
Flow (%) =	5.9	3.6	5.4	6.3	4.7	
Area (sq ft) =	77.1	47.6	74.5	68.2	60.0	
Vel (ft/s) =	2.88	2.85	2.70	3.48	2.96	
Depth (ft) =	3.80	3.75	3.45	5.13	3.98	

Station (ft) =	10194.2	10213.8	10219.5
Flow (%) =	4.0	.1	
Area (sq ft) =	59.4	3.8	
Vel (ft/s) =	2.50	.89	
Depth (ft) =	3.03	.67	

STATUS: Analyzing cross-section reach 11.960.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.960	.080	.055	.085	6.90	1595.10	.00	.00
.005157	455	445	430	1595.48	.38	2.00	.02
171.72	49	493	386	.00	1592.90	1593.20	4
3756	84	2771	899	301.3	9924.68	10226.01	0
.46	1.73	5.62	2.33	.000	54.8	1588.20	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.960
Total Discharge (cfs, Q) 3756
Computed Water Surface Elevation (ft MSL, CWSEL) 1595.10

Station (ft) =	9924.7	9962.6	10061.5	10094.1	10115.1	10144.6
Flow (%) =	2.3	73.8	3.1	3.0	4.1	
Area (sq ft) =	49.1	493.0	60.9	50.2	69.4	
Vel (ft/s) =	1.73	5.62	1.90	2.26	2.22	
Depth (ft) =	1.29	4.99	1.87	2.39	2.35	

Station (ft) =	10144.6	10175.3	10189.0	10197.6	10226.0
Flow (%) =	4.4	3.4	3.1	2.9	
Area (sq ft) =	73.3	45.9	35.7	50.7	
Vel (ft/s) =	2.25	2.79	3.24	2.12	
Depth (ft) =	2.39	3.35	4.15	1.79	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 12.041.

12.041	.067	.050	.085	5.92	1597.62	.00	.00
.007152	490	430	390	1598.16	.54	2.63	.05
180.08	382	355	3	.00	1596.00	1596.20	2
3756	1314	2437	3	264.4	9793.37	10057.82	0
.48	3.43	6.86	1.14	.000	57.7	1591.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.041
Total Discharge (cfs, Q) 3756
Computed Water Surface Elevation (ft MSL, CWSEL) 1597.62

Station (ft) =	9793.4	9835.1	9861.2	9870.4	9874.8	9878.8
Flow (%) =	3.3	3.2	4.9	5.2	3.5	
Area (sq ft) =	58.6	49.4	34.9	24.5	19.3	
Vel (ft/s) =	2.11	2.46	5.31	7.90	6.90	
Depth (ft) =	1.40	1.89	3.79	5.57	4.82	

Station (ft) =	9878.8	9888.0	9904.2	9938.4	9965.9	9976.3
Flow (%) =	3.5	3.6	3.1	3.6	1.0	
Area (sq ft) =	28.5	44.1	52.5	53.5	17.6	
Vel (ft/s) =	4.56	3.06	2.25	2.53	2.23	
Depth (ft) =	3.10	2.72	1.54	1.95	1.70	

Station (ft) =	9976.3	10053.2	10057.8
Flow (%) =	64.9	.1	
Area (sq ft) =	355.1	3.3	
Vel (ft/s) =	6.86	1.14	
Depth (ft) =	4.62	.71	

STATUS: Analyzing cross-section reach 12.128.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.128	.070	.060	.080	7.33	1600.93	.00	.00
.007309	445	460	475	1601.47	.54	3.30	.00
187.48	83	561	29	.00	1597.80	1599.20	2
3756	263	3428	63	182.0	9896.33	10078.36	0
.50	3.15	6.10	2.16	.000	60.0	1593.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	12.128
Total Discharge (cfs, Q)	3756
Computed Water Surface Elevation (ft MSL, CWSEL)	1600.93

Station (ft) =	9896.3	9904.7	9923.3	9931.6	9937.4	10049.9
Flow (%) =	.3	2.8	2.1	1.8	91.3	
Area (sq ft) =	6.4	36.8	22.7	17.9	561.7	
Vel (ft/s) =	1.50	2.86	3.54	3.84	6.10	
Depth (ft) =	.76	1.98	2.73	3.08	4.99	

Station (ft) =	10049.9	10057.1	10063.4	10071.2	10078.4
Flow (%) =	1.0	.6	.1	.0	
Area (sq ft) =	14.6	10.3	4.1	.5	
Vel (ft/s) =	2.54	2.16	1.04	.26	
Depth (ft) =	2.03	1.63	.53	.06	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 12.174.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.174	.055	.055	.070	5.70	1602.60	.00	.00
.004184	250	240	245	1602.81	.21	1.31	.03
192.58	6	286	861	.00	1599.40	1600.00	2
3756	14	1413	2328	421.2	9977.31	10398.51	0
.52	2.06	4.94	2.70	.000	61.7	1596.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.174
Total Discharge (cfs, Q) 3756
Computed Water Surface Elevation (ft MSL, CWSEL) 1602.60

Station (ft) =	9977.3	9981.6	10041.1	10059.2	10073.7	10089.6
Flow (%) =	.4	37.6	3.3	4.6	4.4	
Area (sq ft) =	6.8	286.2	51.3	57.4	57.7	
Vel (ft/s) =	2.06	4.94	2.40	3.01	2.85	
Depth (ft) =	1.60	4.81	2.83	3.96	3.63	

Station (ft) =	10089.6	10108.5	10139.9	10154.0	10181.2	10189.4
Flow (%) =	3.3	3.7	4.4	15.5	3.3	
Area (sq ft) =	52.3	68.8	44.2	122.3	29.9	
Vel (ft/s) =	2.36	2.03	3.77	4.76	4.11	
Depth (ft) =	2.77	2.19	3.13	4.50	3.65	

Station (ft) =	10189.4	10216.3	10248.4	10279.2	10354.2	10398.5
Flow (%) =	3.4	3.1	3.0	8.6	1.5	
Area (sq ft) =	54.1	60.7	59.9	161.0	41.5	
Vel (ft/s) =	2.36	1.90	1.89	2.00	1.35	
Depth (ft) =	2.01	1.89	1.94	2.15	.94	

STATUS: Analyzing cross-section reach 12.249.

STATUS: (3265) Divided flow.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .63

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.249	.085	.055	.085	4.87	1604.77	.00	.00
.010610	405	395	395	1605.45	.67	2.50	.14
201.03	206	428	67	.00	1603.30	1601.90	2
3756	467	3074	214	314.8	9725.85	10068.44	0
.54	2.26	7.17	3.16	.000	65.1	1599.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.249
Total Discharge (cfs, Q) 3756
Computed Water Surface Elevation (ft MSL, CWSEL) 1604.77

Station (ft) =	9725.8	9843.4	9868.5	9914.1	9931.4	10034.5
Flow (%) =	3.8	3.1	3.7	1.8	81.9	
Area (sq ft) =	73.1	44.2	61.9	27.6	428.5	
Vel (ft/s) =	1.95	2.65	2.26	2.46	7.17	
Depth (ft) =	.62	1.76	1.36	1.60	4.16	

Station (ft) =	10034.5	10048.1	10068.4
Flow (%) =	3.6	2.1	
Area (sq ft) =	38.1	29.6	
Vel (ft/s) =	3.58	2.62	
Depth (ft) =	2.81	1.45	

STATUS: Analyzing cross-section reach 12.325.

12.325	.085	.060	.085	7.16	1608.26	.00	.00
.005936	400	405	415	1608.63	.37	3.15	.03
208.67	187	434	314	.00	1605.20	1605.00	3
3756	526	2473	755	317.7	9861.98	10179.72	0
.56	2.80	5.69	2.40	.000	68.0	1601.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.325
Total Discharge (cfs, Q) 3756
Computed Water Surface Elevation (ft MSL, CWSEL) 1608.26

Station (ft) =	9862.0	9902.3	9914.3	9926.2	9935.7	10019.2
Flow (%) =	3.8	3.2	4.6	2.4	65.9	
Area (sq ft) =	67.4	40.1	49.4	31.0	434.5	
Vel (ft/s) =	2.11	3.01	3.48	2.96	5.69	
Depth (ft) =	1.67	3.34	4.15	3.26	5.20	

Station (ft) =	10019.2	10032.1	10044.4	10064.1	10101.2	10129.2
Flow (%) =	3.3	3.5	3.1	5.2	3.6	
Area (sq ft) =	42.1	42.4	46.9	82.2	59.4	
Vel (ft/s) =	2.96	3.07	2.50	2.36	2.27	
Depth (ft) =	3.26	3.45	2.38	2.22	2.12	

Station (ft) =	10129.2	10179.7
Flow (%) =	1.5	
Area (sq ft) =	41.4	
Vel (ft/s) =	1.32	
Depth (ft) =	.82	

STATUS: Analyzing cross-section reach 12.395.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
---	---	---	---	---	---	---	---
12.395	.080	.055	.095	6.08	1609.98	.00	.00
.005777	315	370	40	1610.31	.33	1.68	.00
213.98	144	450	430	.00	1608.60	1607.30	2
3756	285	2450	1019	378.6	9845.55	10224.12	0
.58	1.97	5.43	2.37	.000	69.6	1603.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	12.395
Total Discharge (cfs, Q)	3756
Computed Water Surface Elevation (ft MSL, CWSEL)	1609.98

Station (ft) =	9845.5	9910.0	9949.5	10053.6	10074.0	10099.1
Flow (%) =	4.4	3.2	65.2	3.3	4.1	
Area (sq ft) =	82.9	61.9	451.0	54.6	67.0	
Vel (ft/s) =	1.99	1.95	5.43	2.29	2.29	
Depth (ft) =	1.29	1.57	4.33	2.68	2.67	

Station (ft) =	10099.1	10113.4	10126.8	10137.4	10167.8	10196.5
Flow (%) =	3.3	4.8	3.2	4.1	3.1	
Area (sq ft) =	47.2	57.5	41.3	72.0	59.8	
Vel (ft/s) =	2.64	3.14	2.94	2.12	1.94	
Depth (ft) =	3.30	4.29	3.90	2.37	2.08	

Station (ft) =	10196.5	10224.1
Flow (%) =	1.2	
Area (sq ft) =	30.8	
Vel (ft/s) =	1.48	
Depth (ft) =	1.11	

Contraction Coefficient (CCHV) .100

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 12.484.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.484	.080	.050	.080	6.62	1613.72	1613.72	.00
.012294	460	465	485	1614.70	.98	3.79	.19
222.97	198	391	51	.00	1613.00	1613.30	3
3706	324	3286	95	481.1	9647.84	10128.91	8
.60	1.64	8.40	1.86	.000	74.2	1607.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	12.484
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1613.72

Station (ft) =	9647.8	9732.9	9858.0	9966.6	10061.3	10128.9
Flow (%) =	3.4	3.1	2.2	88.7	2.6	
Area (sq ft) =	67.0	75.6	55.6	391.3	51.1	
Vel (ft/s) =	1.90	1.54	1.44	8.40	1.86	
Depth (ft) =	.79	.60	.51	4.13	.76	

STATUS: Analyzing cross-section reach 12.568.

STATUS: (3265) Divided flow.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.568	.080	.060	.080	7.54	1618.44	.00	.00
.007359	495	445	405	1618.97	.53	4.23	.04
230.38	290	413	62	.00	1615.10	1616.00	3
3706	843	2728	134	324.8	9775.57	10101.94	0
.62	2.90	6.60	2.14	.000	78.6	1610.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.568
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1618.44

Station (ft) =	9775.6	9879.9	9919.4	9951.2	9957.8	9966.2
Flow (%) =	3.1	3.1	7.3	4.4	3.8	
Area (sq ft) =	75.4	56.7	79.5	34.2	34.8	
Vel (ft/s) =	1.53	2.03	3.41	4.77	4.09	
Depth (ft) =	.72	1.43	2.50	5.19	4.15	

Station (ft) =	9966.2	9969.2	10043.5	10070.4	10101.9
Flow (%) =	1.0	73.6	3.2	.4	
Area (sq ft) =	10.2	413.6	48.8	13.9	
Vel (ft/s) =	3.60	6.60	2.42	1.17	
Depth (ft) =	3.39	5.57	1.82	.44	

STATUS: Analyzing cross-section reach 12.650.

12.650	.080	.060	.080	7.70	1621.60	.00	.00
.007120	415	435	460	1622.11	.51	3.14	.00
238.46	209	456	192	.00	1618.90	1619.30	2
3706	381	2913	411	435.3	9744.28	10179.58	0
.64	1.82	6.38	2.14	.000	82.3	1613.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.650
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1621.60

Station (ft) =	9744.3	9917.7	9952.0	9958.7	10042.9	10065.5
Flow (%) =	5.8	3.3	1.2	78.6	3.1	
Area (sq ft) =	138.0	55.7	16.0	456.6	45.9	
Vel (ft/s) =	1.55	2.18	2.80	6.38	2.54	
Depth (ft) =	.80	1.63	2.40	5.42	2.03	

Station (ft) =	10065.5	10102.2	10130.7	10179.6
Flow (%) =	3.1	3.1	1.7	
Area (sq ft) =	55.4	50.6	40.5	
Vel (ft/s) =	2.08	2.31	1.56	
Depth (ft) =	1.51	1.77	.83	

STATUS: Analyzing cross-section reach 12.734.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.734	.080	.040	.080	8.13	1624.43	1624.33	.00
.007951	450	445	390	1625.61	1.18	3.30	.20
245.80	108	309	206	.00	1623.20	1623.20	4
3706	190	2980	534	360.0	9788.62	10198.26	8
.66	1.76	9.64	2.59	.000	86.2	1616.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	12.734
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1624.43

Station (ft) =	9788.6	9951.9	9972.3	10031.9	10090.5	10097.4
Flow (%) =	3.4	1.7	80.4	4.4	3.0	
Area (sq ft) =	78.7	29.6	309.1	76.9	27.6	
Vel (ft/s) =	1.62	2.13	9.64	2.11	4.07	
Depth (ft) =	.48	1.45	5.19	1.31	4.00	

Station (ft) =	10097.4	10109.8	10198.3
Flow (%) =	4.6	2.4	
Area (sq ft) =	45.8	56.2	
Vel (ft/s) =	3.72	1.60	
Depth (ft) =	3.69	.64	

STATUS: Analyzing cross-section reach 12.822.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.822	.080	.050	.080	8.20	1628.50	1628.44	.00
.007314	450	460	485	1629.18	.68	3.53	.05
254.34	314	348	311	.00	1626.80	1627.10	4
3706	528	2680	497	826.8	9576.96	10422.65	5
.68	1.68	7.70	1.60	.000	92.6	1620.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.822
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1628.50

Station (ft) =	9577.0	9791.6	9843.7	9927.0	9967.8	9976.5
Flow (%) =	3.7	3.0	3.0	3.6	1.0	
Area (sq ft) =	103.4	62.1	75.1	58.2	15.3	
Vel (ft/s) =	1.32	1.81	1.49	2.28	2.31	
Depth (ft) =	.48	1.19	.90	1.43	1.75	

Station (ft) =	9976.5	10040.7	10097.3	10147.3	10272.2	10405.0
Flow (%) =	72.3	3.7	3.1	3.6	3.0	
Area (sq ft) =	348.2	72.3	61.9	88.5	84.0	
Vel (ft/s) =	7.70	1.87	1.83	1.51	1.34	
Depth (ft) =	5.42	1.28	1.24	.71	.63	

Station (ft) =	10405.0	10422.6
Flow (%) =	.1	
Area (sq ft) =	4.4	
Vel (ft/s) =	.63	
Depth (ft) =	.25	

STATUS: Analyzing cross-section reach 12.909.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.909	.080	.050	.080	6.59	1631.39	.00	.00
.004644	475	460	465	1631.86	.47	2.66	.02
263.87	132	627	53	.00	1630.80	1630.30	2
3706	123	3526	56	436.3	9696.58	10132.84	0
.70	.94	5.62	1.05	.000	99.4	1624.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.909
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1631.39

Station (ft) =	9696.6	9908.1	9921.6	10055.9	10132.8
Flow (%) =	3.1	.2	95.2	1.5	
Area (sq ft) =	124.1	7.9	627.9	53.1	
Vel (ft/s) =	.94	.89	5.62	1.05	
Depth (ft) =	.59	.59	4.68	.69	

STATUS: Analyzing cross-section reach 13.000.

STATUS: (3265) Divided flow.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .59

13.000	.080	.050	.080	4.80	1634.60	.00	.00
.013326	510	480	470	1635.53	.93	3.53	.14
271.27	58	437	24	.00	1634.00	1633.30	2
3706	163	3479	62	198.6	9844.23	10072.45	0
.72	2.78	7.95	2.60	.000	103.0	1629.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.000
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1634.60

Station (ft) =	9844.2	9919.0	9929.2	10052.4	10072.5
Flow (%) =	3.5	.9	93.9	1.7	
Area (sq ft) =	45.8	13.0	437.4	24.0	
Vel (ft/s) =	2.83	2.61	7.95	2.60	
Depth (ft) =	.61	1.28	3.55	1.20	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 13.079.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.58

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.079	.080	.050	.053	5.27	1638.57	.00	.00
.005335	430	420	425	1638.95	.39	3.37	.05
277.58	73	517	191	.00	1637.00	1637.20	2
3706	134	2715	855	267.8	9841.61	10109.45	0
.74	1.84	5.25	4.46	.000	105.2	1633.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.079
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1638.57

Station (ft) =	9841.6	9889.1	10025.9	10064.6	10072.0	10078.0
Flow (%) =	3.6	73.3	4.5	4.7	5.5	
Area (sq ft) =	73.0	517.6	63.2	31.2	31.3	
Vel (ft/s) =	1.84	5.25	2.62	5.55	6.53	
Depth (ft) =	1.54	3.78	1.63	4.22	5.22	

Station (ft) =	10078.0	10083.8	10097.7	10109.5
Flow (%) =	5.3	3.1	.1	
Area (sq ft) =	30.0	31.6	4.4	
Vel (ft/s) =	6.49	3.60	.77	
Depth (ft) =	5.17	2.27	.38	

STATUS: Analyzing cross-section reach 13.141.

STATUS: (3265) Divided flow.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .64

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.141	.080	.060	.080	5.03	1641.23	.00	.00
.012856	300	325	390	1641.66	.43	2.69	.01
283.99	55	404	372	.00	1639.50	1640.60	2
3706	158	2484	1063	494.2	9931.65	10430.15	0
.76	2.86	6.14	2.85	.000	108.4	1636.20	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.141
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1641.23

Station (ft) =	9931.7	9961.7	9968.7	10093.3	10251.5	10287.4
Flow (%) =	3.3	1.0	67.1	3.2	3.9	
Area (sq ft) =	43.2	12.1	404.6	80.7	48.9	
Vel (ft/s) =	2.81	3.03	6.14	1.47	2.96	
Depth (ft) =	1.44	1.72	3.25	.51	1.36	

Station (ft) =	10287.4	10330.7	10355.9	10378.6	10397.7	10408.1
Flow (%) =	3.8	4.2	3.6	3.7	4.9	
Area (sq ft) =	55.1	48.0	42.0	38.9	37.6	
Vel (ft/s) =	2.53	3.27	3.19	3.49	4.84	
Depth (ft) =	1.27	1.90	1.85	2.03	3.62	

Station (ft) =	10408.1	10430.2
Flow (%) =	1.4	
Area (sq ft) =	21.6	
Vel (ft/s) =	2.43	
Depth (ft) =	.98	

STATUS: Analyzing cross-section reach 13.223.

STATUS: (3265) Divided flow.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.57

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.223	.000	.060	.080	5.21	1644.91	.00	.00
.005241	450	435	425	1645.05	.14	3.37	.03
295.26	0	375	1082	.00	1644.90	1644.80	2
3706	0	1529	2176	857.5	9980.15	10936.32	0
.80	.01	4.08	2.01	.000	115.0	1639.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.223
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1644.91

Station (ft) =	9980.1	10086.8	10125.1	10143.1	10172.7	10264.3
Flow (%) =	41.3	4.1	3.1	3.9	3.9	
Area (sq ft) =	375.2	72.3	46.0	63.1	77.0	
Vel (ft/s) =	4.08	2.12	2.52	2.26	1.87	
Depth (ft) =	3.53	1.89	2.56	2.13	.84	

Station (ft) =	10264.3	10298.9	10313.6	10416.8	10598.0	10641.0
Flow (%) =	3.7	3.5	3.4	3.3	3.1	
Area (sq ft) =	66.2	45.6	92.2	85.9	62.0	
Vel (ft/s) =	2.08	2.85	1.37	1.44	1.88	
Depth (ft) =	1.91	3.10	.89	.47	1.44	

Station (ft) =	10641.0	10653.0	10696.9	10727.6	10757.0	10795.7
Flow (%) =	3.6	3.7	3.5	3.3	4.5	
Area (sq ft) =	42.6	72.4	61.1	57.7	77.8	
Vel (ft/s) =	3.10	1.92	2.13	2.11	2.14	
Depth (ft) =	3.55	1.65	1.99	1.96	2.01	

Station (ft) =	10795.7	10824.8	10849.0	10936.3
Flow (%) =	3.6	3.1	1.2	
Area (sq ft) =	60.8	51.8	47.5	
Vel (ft/s) =	2.21	2.25	.97	
Depth (ft) =	2.09	2.14	.54	

STATUS: Analyzing cross-section reach 13.286.

STATUS: (3265) Divided flow.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.286	.085	.060	.085	4.84	1646.64	.00	.00
.005688	400	330	295	1646.73	.09	1.68	.00
306.01	3	305	1325	.00	1646.50	1646.70	3
3706	1	1031	2673	1018.2	9885.92	10949.63	0
.84	.33	3.37	2.02	.000	121.5	1641.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.286
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1646.64

Station (ft) =	9885.9	9927.4	10053.8	10095.0	10193.7	10266.7
Flow (%) =	.0	27.8	3.2	3.3	3.4	
Area (sq ft) =	3.3	305.8	55.6	93.7	86.2	
Vel (ft/s) =	.33	3.37	2.12	1.31	1.48	
Depth (ft) =	.08	2.43	1.35	.95	1.18	

Station (ft) =	10266.7	10308.8	10343.3	10456.4	10502.5	10528.6
Flow (%) =	3.7	3.7	4.2	3.5	5.9	
Area (sq ft) =	72.4	66.4	94.0	73.1	77.6	
Vel (ft/s) =	1.89	2.05	1.64	1.80	2.80	
Depth (ft) =	1.72	1.92	.83	1.59	2.97	

Station (ft) =	10528.6	10537.3	10569.5	10606.5	10646.6	10677.8
Flow (%) =	3.6	4.6	4.4	4.4	5.2	
Area (sq ft) =	38.0	73.5	75.8	78.2	79.1	
Vel (ft/s) =	3.49	2.30	2.16	2.06	2.46	
Depth (ft) =	4.37	2.28	2.05	1.95	2.53	

Station (ft) =	10677.8	10697.4	10728.6	10762.3	10870.0	10930.0
Flow (%) =	3.5	4.4	4.2	3.6	3.2	
Area (sq ft) =	51.8	71.4	70.9	92.6	65.5	
Vel (ft/s) =	2.52	2.29	2.17	1.44	1.82	
Depth (ft) =	2.64	2.29	2.10	.86	1.09	

Station (ft) =	10930.0	10949.6
Flow (%) =	.2	
Area (sq ft) =	10.0	
Vel (ft/s) =	.90	
Depth (ft) =	.51	

STATUS: Analyzing cross-section reach 13.354.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.354	.085	.060	.085	4.54	1650.44	1650.44	.00
.026136	360	360	365	1651.45	1.01	3.83	.27
315.11	23	291	231	.00	1649.50	1649.70	2
3706	59	2664	981	324.3	9899.99	10493.35	11
.85	2.51	9.14	4.25	.000	127.1	1645.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.354
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1650.44

Station (ft) =	9900.0	9932.1	10015.8	10292.0	10298.2	10305.9
Flow (%) =	1.6	71.9	5.7	5.1	6.1	
Area (sq ft) =	23.7	291.5	62.9	26.0	31.3	
Vel (ft/s) =	2.51	9.14	3.33	7.34	7.16	
Depth (ft) =	.74	3.48	.23	4.19	4.07	

Station (ft) =	10305.9	10334.2	10442.7	10482.6	10493.4
Flow (%) =	3.0	3.1	3.2	.3	
Area (sq ft) =	32.9	35.2	37.7	5.2	
Vel (ft/s) =	3.40	3.28	3.18	1.95	
Depth (ft) =	1.16	.32	.94	.49	

STATUS: Analyzing cross-section reach 13.435.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.58

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9740.00
Right Encroachment Station (ft, STENCR)	10570.00
Encroachment Method (TYPE)	1
Width or Percent Target	830.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.435	.085	.060	.085	6.53	1654.83	.00	.00
.003916	430	430	440	1655.05	.22	3.52	.08
324.92	247	490	681	.00	1653.30	1652.00	6
3706	334	2288	1082	809.6	9740.00	10557.71	0
.89	1.35	4.67	1.59	.000	132.8	1648.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	13.435
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1654.83

Station (ft) =	9740.0	9877.3	9951.3	9963.7	10056.7	10089.8
Flow (%) =	3.5	4.6	1.0	61.8	3.1	
Area (sq ft) =	113.8	111.6	22.1	490.3	64.3	
Vel (ft/s) =	1.14	1.52	1.62	4.67	1.80	
Depth (ft) =	.83	1.51	1.78	5.27	1.94	

Station (ft) =	10089.8	10163.7	10190.4	10206.9	10228.9	10280.5
Flow (%) =	3.5	3.4	3.5	3.5	3.6	
Area (sq ft) =	94.9	64.5	53.9	58.8	86.1	
Vel (ft/s) =	1.37	1.97	2.42	2.21	1.54	
Depth (ft) =	1.28	2.41	3.27	2.67	1.67	

Station (ft) =	10280.5	10410.0	10520.0	10557.7
Flow (%) =	5.2	3.1	.3	
Area (sq ft) =	140.8	102.8	15.6	
Vel (ft/s) =	1.37	1.11	.61	
Depth (ft) =	1.09	.93	.41	

STATUS: Analyzing cross-section reach 13.519.

STATUS: (3265) Divided flow.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .67

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9800.00
Right Encroachment Station (ft, STENCR)	10604.70
Encroachment Method (TYPE)	1
Width or Percent Target	-9800.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
---	---	---	---	---	---	---	---
13.519	.085	.060	.085	6.64	1657.14	.00	.00
.008782	450	440	440	1657.60	.46	2.48	.07
336.68	56	436	408	.00	1655.40	1657.60	4
3706	74	2721	909	552.3	9800.00	10420.30	0
.91	1.32	6.23	2.23	.000	139.7	1650.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	13.519
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1657.14

Station (ft) =	9800.0	9961.6	10065.5	10148.9	10176.2	10199.3
Flow (%) =	2.0	73.4	3.2	3.3	3.5	
Area (sq ft) =	56.1	436.7	51.5	49.4	47.7	
Vel (ft/s) =	1.32	6.23	2.30	2.50	2.74	
Depth (ft) =	.35	4.45	.62	1.81	2.06	

Station (ft) =	10199.3	10252.5	10295.0	10327.5	10374.9	10420.3
Flow (%) =	3.8	3.9	3.1	3.5	.2	
Area (sq ft) =	70.5	65.7	51.4	63.3	9.4	
Vel (ft/s) =	2.02	2.19	2.23	2.06	.68	
Depth (ft) =	1.33	1.55	1.58	1.33	.21	

STATUS: Analyzing cross-section reach 13.603.

STATUS: (3265) Divided flow.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9830.00
Right Encroachment Station (ft, STENCR)	10600.00
Encroachment Method (TYPE)	1
Width or Percent Target	-9830.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.603	.085	.055	.085	7.94	1660.34	.00	.00
.005433	450	445	575	1660.79	.46	3.19	.00
347.33	160	493	314	.00	1656.90	1659.70	2
3706	336	2961	408	679.5	9830.00	10529.53	0
.94	2.10	6.00	1.30	.000	147.1	1652.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	13.603
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1660.34

Station (ft) =	9830.0	9946.4	9965.1	10057.5	10155.6	10201.3
Flow (%) =	4.1	5.0	79.9	3.6	3.6	
Area (sq ft) =	96.9	63.2	493.9	94.3	73.6	
Vel (ft/s) =	1.57	2.90	6.00	1.42	1.80	
Depth (ft) =	.83	3.38	5.34	.96	1.61	

Station (ft) =	10201.3	10380.0	10529.5
Flow (%) =	3.1	.7	
Area (sq ft) =	101.9	45.1	
Vel (ft/s) =	1.12	.62	
Depth (ft) =	.57	.30	

STATUS: Analyzing cross-section reach 13.691.

STATUS: (3265) Divided flow.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9816.90
Right Encroachment Station (ft, STENCR)	10730.00
Encroachment Method (TYPE)	1
Width or Percent Target	-9816.900

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.691	.080	.055	.090	7.38	1663.28	.00	.00
.007850	440	465	510	1663.86	.58	3.03	.04
357.24	139	473	237	.00	1661.60	1662.50	2
3706	262	3122	320	545.7	9816.90	10516.33	0
.96	1.88	6.60	1.35	.000	154.0	1655.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	13.691
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1663.28

Station (ft) =	9816.9	9876.8	9920.4	9930.9	10033.1	10110.8
Flow (%) =	3.2	3.0	.8	84.3	3.5	
Area (sq ft) =	67.7	56.7	15.0	473.3	81.7	
Vel (ft/s) =	1.77	1.96	2.09	6.60	1.57	
Depth (ft) =	1.13	1.30	1.43	4.63	1.05	

Station (ft) =	10110.8	10470.0	10516.3
Flow (%) =	3.5	1.7	
Area (sq ft) =	112.3	43.3	
Vel (ft/s) =	1.15	1.47	
Depth (ft) =	.31	.94	

STATUS: Analyzing cross-section reach 13.761.

STATUS: (3265) Divided flow.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.761	.080	.055	.090	6.56	1665.96	.00	.00
.005900	395	370	350	1666.37	.41	2.50	.02
365.37	119	508	455	.00	1665.60	1663.10	2
3706	114	2926	664	984.7	9666.50	10808.71	0
.98	.96	5.75	1.46	.000	160.4	1659.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.761
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1665.96

Station (ft) =	9666.5	9895.1	9958.7	10068.2	10091.2	10122.2
Flow (%) =	3.1	.0	79.0	4.3	3.6	
Area (sq ft) =	118.6	1.3	508.6	63.9	62.0	
Vel (ft/s) =	.96	.45	5.75	2.51	2.14	
Depth (ft) =	.52	.02	4.64	2.78	2.00	

Station (ft) =	10122.2	10630.0	10698.9	10808.7
Flow (%) =	4.5	4.5	1.1	
Area (sq ft) =	183.7	95.0	50.4	
Vel (ft/s) =	.91	1.74	.78	
Depth (ft) =	.36	1.38	.46	

STATUS: Analyzing cross-section reach 13.841.

STATUS: (3265) Divided flow.

13.841	.080	.050	.080	6.48	1668.68	.00	.00
.006872	450	420	375	1668.95	.26	2.56	.01
376.27	9	245	1078	.00	1669.20	1669.30	2
3706	4	1477	2223	898.5	9844.98	10950.78	0
1.01	.54	6.01	2.06	.000	168.8	1662.20	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.841
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1668.68

Station (ft) =	9845.0	9926.0	10032.1	10350.0	10430.0	10525.0
Flow (%) =	.1	39.9	8.5	6.8	6.0	
Area (sq ft) =	9.2	246.0	180.1	122.7	122.0	
Vel (ft/s) =	.54	6.01	1.74	2.05	1.82	
Depth (ft) =	.11	3.94	.57	1.53	1.28	

Station (ft) =	10525.0	10700.0	10720.0	10870.0	10950.8
Flow (%) =	17.3	5.1	14.9	1.5	
Area (sq ft) =	294.7	59.7	252.6	47.2	
Vel (ft/s) =	2.18	3.19	2.18	1.14	
Depth (ft) =	1.68	2.98	1.68	.58	

STATUS: Analyzing cross-section reach 13.912.

STATUS: (3265) Divided flow.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9730.00
Right Encroachment Station (ft, STENCR)	10940.00
Encroachment Method (TYPE)	1
Width or Percent Target	-9730.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.912	.070	.055	.070	4.14	1671.24	.00	.00
.006409	355	375	385	1671.46	.22	2.51	.00
387.50	297	319	626	.00	1669.10	1669.70	2
3706	794	1600	1310	868.2	9730.00	10601.24	0
1.04	2.67	5.00	2.09	.000	176.5	1667.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	13.912
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1671.24

Station (ft) =	9730.0	9866.8	9894.1	9932.7	9951.4	9966.8
Flow (%) =	5.5	3.4	4.8	4.8	2.9	
Area (sq ft) =	90.0	49.2	70.0	52.3	36.2	
Vel (ft/s) =	2.28	2.59	2.53	3.38	3.00	
Depth (ft) =	.66	1.80	1.81	2.79	2.35	

Station (ft) =	9966.8	10057.4	10235.0	10285.0	10350.0	10500.0
Flow (%) =	43.2	4.9	3.7	5.8	15.8	
Area (sq ft) =	319.9	115.4	66.2	96.5	247.4	
Vel (ft/s) =	5.00	1.58	2.07	2.21	2.37	
Depth (ft) =	3.53	.65	1.32	1.48	1.65	

Station (ft) =	10500.0	10540.0	10601.2
Flow (%) =	3.8	1.3	
Area (sq ft) =	62.0	39.0	
Vel (ft/s) =	2.28	1.27	
Depth (ft) =	1.55	.64	

STATUS: Analyzing cross-section reach 13.987.

STATUS: (3265) Divided flow.

STATUS: (3280) For cross-section 13.99, ends have been extended vertically .04 feet in order to calculate the hydraulic cross-section properties.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.987	.070	.050	.070	5.54	1674.24	.00	.00
.009060	400	400	415	1674.55	.31	3.06	.03
398.83	184	379	613	.00	1674.00	1674.20	3
3706	290	2141	1273	1252.2	9480.30	10793.99	0
1.07	1.58	5.64	2.08	.000	186.5	1668.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	13.987
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1674.24

Station (ft) =	9480.3	9757.2	9842.6	9922.5	10056.6	10198.5
Flow (%) =	3.4	3.2	1.2	57.8	3.7	
Area (sq ft) =	81.7	67.9	34.5	379.6	87.6	
Vel (ft/s) =	1.55	1.74	1.33	5.64	1.58	
Depth (ft) =	.30	.80	.43	2.83	.62	

Station (ft) =	10198.5	10231.5	10268.0	10313.1	10386.0	10450.5
Flow (%) =	3.7	3.1	3.5	4.0	4.1	
Area (sq ft) =	50.4	46.9	56.0	73.3	70.3	
Vel (ft/s) =	2.69	2.41	2.34	2.04	2.14	
Depth (ft) =	1.53	1.29	1.24	1.01	1.09	

Station (ft) =	10450.5	10505.3	10537.8	10630.0	10794.0
Flow (%) =	5.1	3.1	3.0	1.1	
Area (sq ft) =	75.2	45.1	68.2	40.1	
Vel (ft/s) =	2.50	2.52	1.65	1.01	
Depth (ft) =	1.37	1.39	.74	.24	

STATUS: Analyzing cross-section reach 14.076.

STATUS: (3265) Divided flow.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.076	.070	.050	.070	5.48	1677.78	.00	.00
.006375	480	470	470	1678.10	.33	3.55	.00
411.53	94	363	715	.00	1676.80	1677.10	3
3706	193	2118	1394	878.0	9911.17	10886.06	0
1.10	2.05	5.83	1.95	.000	198.0	1672.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.076
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1677.78

Station (ft) =	9911.2	9970.1	9987.4	10080.2	10155.6	10197.5
Flow (%) =	3.7	1.5	57.2	3.2	3.3	
Area (sq ft) =	69.8	24.7	363.1	69.8	58.2	
Vel (ft/s) =	1.99	2.21	5.83	1.70	2.12	
Depth (ft) =	1.18	1.43	3.91	.93	1.39	

Station (ft) =	10197.5	10225.3	10262.9	10307.1	10340.0	10410.0
Flow (%) =	3.3	3.3	3.6	3.1	5.6	
Area (sq ft) =	49.6	55.5	62.7	49.8	96.9	
Vel (ft/s) =	2.49	2.20	2.15	2.27	2.14	
Depth (ft) =	1.78	1.48	1.42	1.51	1.38	

Station (ft) =	10410.0	10535.0	10850.0	10886.1
Flow (%) =	8.6	3.4	.2	
Area (sq ft) =	159.6	102.9	10.4	
Vel (ft/s) =	2.00	1.22	.74	
Depth (ft) =	1.28	.33	.29	

STATUS: Analyzing cross-section reach 14.126.

STATUS: (3265) Divided flow.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.126	.070	.050	.070	5.66	1679.46	.00	.00
.007130	275	260	250	1679.87	.41	1.74	.02
418.04	167	352	518	.00	1677.10	1679.20	2
3706	496	2232	976	771.7	9877.94	10661.81	0
1.12	2.97	6.34	1.88	.000	202.8	1673.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.126
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1679.46

Station (ft) =	9877.9	9932.5	9948.8	9972.4	10059.4	10119.2
Flow (%) =	4.6	3.6	5.3	60.2	3.2	
Area (sq ft) =	68.0	40.2	59.2	352.2	62.4	
Vel (ft/s) =	2.48	3.28	3.31	6.34	1.91	
Depth (ft) =	1.25	2.47	2.51	4.05	1.04	

Station (ft) =	10119.2	10197.1	10260.7	10300.0	10355.0	10555.0
Flow (%) =	3.5	3.4	3.1	3.3	3.1	
Area (sq ft) =	72.7	67.3	51.9	59.7	84.9	
Vel (ft/s) =	1.79	1.86	2.24	2.02	1.34	
Depth (ft) =	.93	1.06	1.32	1.09	.42	

Station (ft) =	10555.0	10600.0	10661.8
Flow (%) =	5.0	1.8	
Area (sq ft) =	74.5	45.0	
Vel (ft/s) =	2.51	1.45	
Depth (ft) =	1.65	.73	

STATUS: Analyzing cross-section reach 14.197.

STATUS: (3265) Divided flow.

14.197	.070	.055	.070	5.43	1682.43	.00	.00
.008833	380	375	370	1682.83	.40	2.96	.00
426.91	46	481	505	.00	1681.90	1681.60	3
3706	67	2782	855	1061.4	9798.65	10923.43	0
1.14	1.45	5.78	1.69	.000	210.6	1677.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	14.197
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1682.43

Station (ft) =	9798.7	9918.2	10057.3	10388.0	10674.0	10770.0
Flow (%) =	1.8	75.1	3.1	7.0	6.2	
Area (sq ft) =	46.9	481.7	102.2	165.6	107.2	
Vel (ft/s) =	1.45	5.78	1.11	1.58	2.15	
Depth (ft) =	.39	3.46	.31	.58	1.12	

Station (ft) =	10770.0	10840.0	10923.4
Flow (%) =	4.0	2.8	
Area (sq ft) =	72.1	58.8	
Vel (ft/s) =	2.03	1.77	
Depth (ft) =	1.03	.70	

STATUS: Analyzing cross-section reach 14.310.

STATUS: (3280) For cross-section 14.31, ends have been extended vertically 1.25 feet in order to calculate the hydraulic cross-section properties.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9762.30
Right Encroachment Station (ft, STENCR)	10165.40
Encroachment Method (TYPE)	1
Width or Percent Target	403.101

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.310	.080	.050	.080	8.05	1687.95	.00	.00
.009535	600	600	690	1688.51	.56	5.64	.05
440.16	371	250	166	.00	1686.00	1686.90	4
3322	1029	1904	388	397.0	9766.10	10163.11	0
1.17	2.77	7.59	2.33	.000	221.7	1679.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.310
Total Discharge (cfs, Q) 3322
Computed Water Surface Elevation (ft MSL, CWSEL) 1687.95

Station (ft) =	9766.1	9805.9	9828.2	9850.8	9881.7	9903.2
Flow (%) =	3.1	4.8	4.6	4.4	5.1	
Area (sq ft) =	47.3	50.8	49.6	54.9	52.0	
Vel (ft/s) =	2.20	3.15	3.07	2.66	3.27	
Depth (ft) =	1.19	2.28	2.19	1.78	2.42	

Station (ft) =	9903.2	9931.5	9967.5	9974.7	10032.7	10091.2
Flow (%) =	3.6	4.0	1.3	57.3	3.4	
Area (sq ft) =	46.9	55.1	14.4	250.8	60.8	
Vel (ft/s) =	2.58	2.44	2.88	7.59	1.86	
Depth (ft) =	1.66	1.53	2.00	4.32	1.04	

Station (ft) =	10091.2	10121.0	10144.9	10163.1
Flow (%) =	3.8	4.0	.4	
Area (sq ft) =	49.7	46.4	10.0	
Vel (ft/s) =	2.56	2.90	1.37	
Depth (ft) =	1.67	1.94	.55	

STATUS: Analyzing cross-section reach 14.396.

STATUS: (3280) For cross-section 14.40, ends have been extended vertically .87 feet in order to calculate the hydraulic cross-section properties.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9767.30
Right Encroachment Station (ft, STENCR) 10200.00
Encroachment Method (TYPE) 1
Width or Percent Target 432.700

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.396	.085	.050	.085	7.57	1691.47	.00	.00
.006043	465	455	430	1691.93	.46	3.41	.01
449.01	341	329	239	.00	1689.40	1689.20	3
3322	707	2173	441	432.7	9767.30	10200.00	0
1.19	2.07	6.60	1.84	.000	226.0	1683.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.396
Total Discharge (cfs, Q) 3322
Computed Water Surface Elevation (ft MSL, CWSEL) 1691.47

Station (ft) =	9767.3	9802.2	9826.5	9859.8	9929.5	9950.3
Flow (%) =	3.9	4.1	4.3	3.1	3.6	
Area (sq ft) =	62.8	56.9	66.4	70.3	48.8	
Vel (ft/s) =	2.04	2.40	2.16	1.46	2.42	
Depth (ft) =	1.80	2.34	1.99	1.01	2.35	

Station (ft) =	9950.3	9968.8	10036.1	10072.8	10133.8	10161.8
Flow (%) =	2.4	65.4	3.7	3.7	3.7	
Area (sq ft) =	36.8	329.4	62.3	76.7	56.3	
Vel (ft/s) =	2.15	6.60	1.95	1.60	2.20	
Depth (ft) =	1.99	4.90	1.70	1.26	2.01	

Station (ft) =	10161.8	10200.0
Flow (%) =	2.2	
Area (sq ft) =	44.5	
Vel (ft/s) =	1.64	
Depth (ft) =	1.16	

STATUS: Analyzing cross-section reach 14.481.

14.481	.085	.050	.085	5.87	1694.57	.00	.00
.007906	465	445	400	1694.98	.41	3.04	.01
458.57	315	362	308	.00	1693.70	1694.20	2
3322	578	2233	509	731.5	9636.89	10368.35	0
1.22	1.83	6.17	1.65	.000	231.8	1688.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	14.481
Total Discharge (cfs, Q)	3322
Computed Water Surface Elevation (ft MSL, CWSEL)	1694.57

Station (ft) =	9636.9	9720.0	9770.0	9830.2	9857.4	9924.3
Flow (%) =	3.8	3.7	3.2	4.3	2.4	
Area (sq ft) =	77.9	60.8	64.0	56.5	56.6	
Vel (ft/s) =	1.63	2.00	1.67	2.55	1.40	
Depth (ft) =	.94	1.22	1.06	2.08	.85	

Station (ft) =	9924.3	10024.6	10205.2	10285.3	10337.6	10368.4
Flow (%) =	67.2	4.4	7.1	3.7	.2	
Area (sq ft) =	362.1	115.9	117.6	66.3	8.7	
Vel (ft/s) =	6.17	1.25	2.01	1.84	.67	
Depth (ft) =	3.61	.64	1.47	1.27	.28	

STATUS: Analyzing cross-section reach 14.569.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.569	.085	.050	.085	6.64	1698.24	.00	.00
.007939	450	465	485	1698.67	.43	3.69	.01
468.66	255	367	275	.00	1697.20	1696.30	3
3322	484	2285	551	567.5	9672.85	10240.37	0
1.25	1.90	6.22	2.01	.000	238.7	1691.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	14.569
Total Discharge (cfs, Q)	3322
Computed Water Surface Elevation (ft MSL, CWSEL)	1698.24

Station (ft) =	9672.9	9825.6	9857.9	9892.6	9934.7	10035.3
Flow (%) =	3.8	4.4	3.4	3.0	68.8	
Area (sq ft) =	86.2	61.3	53.5	54.2	367.3	
Vel (ft/s) =	1.46	2.39	2.09	1.84	6.22	
Depth (ft) =	.56	1.90	1.54	1.29	3.65	

Station (ft) =	10035.3	10068.7	10101.3	10154.2	10188.8	10240.4
Flow (%) =	4.3	3.2	4.1	3.4	1.6	
Area (sq ft) =	61.4	50.6	71.5	53.6	37.9	
Vel (ft/s) =	2.34	2.09	1.91	2.09	1.42	
Depth (ft) =	1.84	1.55	1.35	1.55	.73	

STATUS: Analyzing cross-section reach 14.656.

STATUS: (3265) Divided flow.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.656	.085	.050	.085	6.58	1701.88	.00	.00
.008831	460	460	475	1702.64	.76	3.87	.10
477.02	109	335	225	.00	1699.60	1700.60	2
3322	270	2618	433	382.6	9902.69	10286.65	0
1.27	2.47	7.80	1.92	.000	243.8	1695.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.656
Total Discharge (cfs, Q) 3322
Computed Water Surface Elevation (ft MSL, CWSEL) 1701.88

Station (ft) =	9902.7	9961.3	9973.0	10043.3	10070.5	10111.4
Flow (%) =	5.8	2.4	78.8	3.5	3.2	
Area (sq ft) =	82.5	27.3	335.5	47.4	52.8	
Vel (ft/s) =	2.33	2.89	7.80	2.43	2.00	
Depth (ft) =	1.41	2.33	4.77	1.74	1.29	

Station (ft) =	10111.4	10191.1	10286.6
Flow (%) =	3.6	2.8	
Area (sq ft) =	71.5	53.5	
Vel (ft/s) =	1.68	1.71	
Depth (ft) =	.90	.56	

STATUS: Analyzing cross-section reach 14.711.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.56

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.711	.085	.050	.085	6.01	1704.01	.00	.00
.003645	305	290	260	1704.25	.24	1.56	.05
482.88	305	531	282	.00	1702.40	1702.30	2
3322	559	2387	374	505.1	9805.58	10310.65	0
1.29	1.83	4.49	1.33	.000	246.7	1698.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.711
Total Discharge (cfs, Q) 3322
Computed Water Surface Elevation (ft MSL, CWSEL) 1704.01

Station (ft) =	9805.6	9877.7	9883.6	9908.2	9932.7	9971.3
Flow (%) =	4.4	3.0	3.5	3.8	2.1	
Area (sq ft) =	97.8	31.9	60.6	62.8	52.8	
Vel (ft/s) =	1.50	3.13	1.95	2.01	1.30	
Depth (ft) =	1.36	5.41	2.46	2.56	1.37	

Station (ft) =	9971.3	10103.5	10186.1	10243.7	10310.0
Flow (%) =	71.9	4.4	3.2	3.7	
Area (sq ft) =	531.5	112.8	80.1	89.2	
Vel (ft/s) =	4.49	1.30	1.32	1.36	
Depth (ft) =	4.02	1.37	1.39	1.34	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 14.754.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

14.754	.085	.049	.065	5.43	1705.43	1705.43	.00
.014456	225	230	255	1706.03	.60	1.50	.11
487.95	271	285	202	.00	1704.90	1704.70	3
3322	684	2147	489	740.0	9676.45	10416.46	9
1.30	2.52	7.52	2.41	.000	250.1	1700.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.754
Total Discharge (cfs, Q) 3322
Computed Water Surface Elevation (ft MSL, CWSEL) 1705.43

Station (ft) =	9676.5	9728.3	9763.6	9771.4	9841.3	9893.3
Flow (%) =	3.8	5.1	3.4	3.2	3.1	
Area (sq ft) =	50.3	54.5	25.0	54.6	49.7	
Vel (ft/s) =	2.51	3.09	4.50	1.92	2.04	
Depth (ft) =	.97	1.54	3.21	.78	.96	

Station (ft) =	9893.3	9939.6	9960.1	10011.4	10035.8	10064.0
Flow (%) =	2.1	2.1	58.2	4.3	3.2	
Area (sq ft) =	38.0	27.5	212.5	45.6	31.2	
Vel (ft/s) =	1.86	2.55	9.10	3.15	3.36	
Depth (ft) =	.82	1.34	4.14	1.87	1.11	

Station (ft) =	10064.0	10084.6	10128.8	10315.3	10416.5
Flow (%) =	4.7	3.3	3.0	.5	
Area (sq ft) =	32.3	43.2	75.2	21.0	
Vel (ft/s) =	4.83	2.56	1.34	.82	
Depth (ft) =	1.57	.98	.40	.21	

STATUS: Analyzing cross-section reach 14.845.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.70

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.845	.085	.050	.085	5.77	1709.67	.00	.00
.005015	480	480	500	1709.91	.23	3.84	.04
498.83	482	435	277	.00	1707.80	1707.30	4
3322	753	2060	508	712.4	9515.60	10228.00	0
1.34	1.56	4.73	1.83	.000	258.2	1703.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.845
Total Discharge (cfs, Q) 3322
Computed Water Surface Elevation (ft MSL, CWSEL) 1709.67

Station (ft) =	9515.6	9618.3	9650.5	9696.7	9749.1	9853.1
Flow (%) =	3.5	3.3	4.0	3.4	3.4	
Area (sq ft) =	88.4	59.2	76.5	70.3	95.1	
Vel (ft/s) =	1.31	1.87	1.75	1.59	1.18	
Depth (ft) =	.86	1.84	1.65	1.34	.91	

Station (ft) =	9853.1	9887.3	9905.5	10033.6	10052.6	10081.0
Flow (%) =	3.2	1.8	62.0	4.7	4.2	
Area (sq ft) =	59.7	33.1	435.3	59.0	64.3	
Vel (ft/s) =	1.79	1.85	4.73	2.64	2.16	
Depth (ft) =	1.74	1.82	3.40	3.10	2.26	

Station (ft) =	10081.0	10135.3	10223.4	10228.0
Flow (%) =	3.4	3.1	.0	
Area (sq ft) =	73.0	80.5	.4	
Vel (ft/s) =	1.53	1.26	.24	
Depth (ft) =	1.34	.91	.09	

STATUS: Analyzing cross-section reach 14.937.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .65

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.937	.080	.050	.080	5.67	1712.97	.00	.00
.012049	500	485	480	1713.65	.68	3.61	.13
509.23	235	316	102	.00	1712.30	1711.30	3
3322	585	2395	341	339.5	9748.02	10087.50	0
1.36	2.49	7.58	3.32	.000	264.2	1707.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	14.937
Total Discharge (cfs, Q)	3322
Computed Water Surface Elevation (ft MSL, CWSEL)	1712.97

Station (ft) =	9748.0	9793.8	9868.6	9896.2	9920.6	9939.7
Flow (%) =	3.5	4.6	4.4	3.5	1.6	
Area (sq ft) =	48.1	75.2	48.2	40.7	22.9	
Vel (ft/s) =	2.42	2.05	3.01	2.87	2.32	
Depth (ft) =	1.05	1.01	1.75	1.67	1.20	

Station (ft) =		9939.7	10028.1	10040.6	10061.5	10087.5
Flow (%)	=	72.1	3.5	5.2	1.6	
Area (sq ft)	=	316.2	30.8	48.2	23.9	
Vel (ft/s)	=	7.58	3.75	3.60	2.18	
Depth (ft)	=	3.58	2.46	2.30	.92	

STATUS: Analyzing cross-section reach 14.976.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.976	.080	.050	.080	6.14	1715.14	.00	.00
.007288	205	205	225	1715.59	.45	1.91	.02
512.89	377	333	165	.00	1713.80	1713.40	2
3322	787	2155	379	466.8	9685.77	10152.61	0
1.37	2.09	6.47	2.30	.000	266.1	1709.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	14.976
Total Discharge (cfs, Q)	3322
Computed Water Surface Elevation (ft MSL, CWSEL)	1715.14

Station (ft) =		9685.8	9731.9	9771.2	9822.1	9843.7	9882.8
Flow (%)	=	4.5	3.8	3.7	3.0	4.3	
Area (sq ft)	=	68.4	59.4	61.5	41.1	64.0	
Vel (ft/s)	=	2.17	2.14	2.00	2.46	2.21	
Depth (ft)	=	1.48	1.51	1.21	1.90	1.64	

Station (ft) =		9882.8	9941.1	9955.0	10035.9	10070.7	10091.0
Flow (%)	=	3.6	.8	64.9	4.1	4.4	
Area (sq ft)	=	66.9	15.8	333.4	59.8	50.5	
Vel (ft/s)	=	1.78	1.73	6.47	2.28	2.91	
Depth (ft)	=	1.15	1.14	4.12	1.72	2.49	

Station (ft) =		10091.0	10152.6
Flow (%)	=	2.9	
Area (sq ft)	=	54.8	
Vel (ft/s)	=	1.76	
Depth (ft)	=	.89	

STATUS: Analyzing cross-section reach 15.044.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.044	.070	.065	.070	5.31	1718.11	.00	.00
.007940	405	360	335	1718.37	.26	2.77	.02
520.30	202	316	363	.00	1716.80	1716.10	3
3035	587	1609	837	521.7	9856.09	10377.83	0
1.40	2.91	5.09	2.30	.000	270.3	1712.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 15.044
Total Discharge (cfs, Q) 3035
Computed Water Surface Elevation (ft MSL, CWSEL) 1718.11

Station (ft) =	9856.1	9884.8	9910.3	9928.6	9945.2	9969.3
Flow (%) =	5.5	4.6	3.2	3.0	3.0	
Area (sq ft) =	51.5	48.3	34.1	31.7	36.4	
Vel (ft/s) =	3.22	2.90	2.86	2.91	2.50	
Depth (ft) =	1.80	1.89	1.86	1.91	1.51	

Station (ft) =	9969.3	10048.9	10079.1	10135.9	10191.1	10230.0
Flow (%) =	53.0	4.4	3.2	3.1	4.3	
Area (sq ft) =	316.5	49.4	52.5	50.0	54.9	
Vel (ft/s) =	5.09	2.68	1.85	1.87	2.38	
Depth (ft) =	3.98	1.64	.92	.91	1.41	

Station (ft) =	10230.0	10261.6	10280.6	10324.5	10377.8
Flow (%) =	4.4	3.8	4.0	.5	
Area (sq ft) =	50.9	38.3	54.6	12.8	
Vel (ft/s) =	2.61	3.02	2.22	1.12	
Depth (ft) =	1.61	2.01	1.24	.24	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.118.

15.118	.061	.055	.085	3.56	1721.06	.00	.00
.007463	340	390	410	1721.26	.20	2.88	.01
527.89	512	329	43	.00	1720.60	1720.40	2
3035	1692	1288	53	500.7	9597.26	10097.97	0
1.42	3.31	3.91	1.23	.000	274.7	1717.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 15.118
Total Discharge (cfs, Q) 3035
Computed Water Surface Elevation (ft MSL, CWSEL) 1721.06

Station (ft) =	9597.3	9650.0	9670.0	9762.1	9826.1	9851.0
Flow (%) =	9.5	10.2	24.1	4.7	3.8	
Area (sq ft) =	81.7	62.3	191.0	79.8	49.0	
Vel (ft/s) =	3.52	4.98	3.82	1.79	2.37	
Depth (ft) =	1.55	3.11	2.07	1.25	1.97	

Station (ft) =	9851.0	9874.2	9879.8	10031.7	10098.0
Flow (%) =	3.2	.2	42.5	1.8	
Area (sq ft) =	43.1	5.1	329.7	43.4	
Vel (ft/s) =	2.28	1.41	3.91	1.23	
Depth (ft) =	1.86	.91	2.17	.65	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.208.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.208	.075	.055	.075	4.46	1725.36	.00	.00
.013283	425	475	520	1725.82	.46	4.48	.08
536.14	178	397	110	.00	1724.00	1724.10	4
3035	432	2390	212	490.5	9804.23	10294.72	0
1.45	2.42	6.02	1.91	.000	280.0	1720.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 15.208
Total Discharge (cfs, Q) 3035
Computed Water Surface Elevation (ft MSL, CWSEL) 1725.36

Station (ft) =	9804.2	9850.0	9920.0	9963.6	9976.1	10122.5
Flow (%) =	4.2	4.9	3.3	1.8	78.8	
Area (sq ft) =	49.3	67.1	43.4	18.6	397.1	
Vel (ft/s) =	2.60	2.22	2.30	2.98	6.02	
Depth (ft) =	1.08	.96	1.00	1.49	2.71	

Station (ft) =	10122.5	10170.7	10229.6	10294.7
Flow (%) =	3.2	3.0	.7	
Area (sq ft) =	44.8	46.7	19.4	
Vel (ft/s) =	2.19	1.96	1.16	
Depth (ft) =	.93	.79	.30	

STATUS: Analyzing cross-section reach 15.298.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.298	.075	.055	.075	5.12	1730.02	.00	.00
.007176	515	475	450	1730.34	.31	4.50	.01
544.12	16	325	447	.00	1728.30	1727.90	3
3035	33	1759	1241	334.3	9958.84	10293.14	0
1.48	1.99	5.40	2.77	.000	284.5	1724.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.298
Total Discharge (cfs, Q)	3035
Computed Water Surface Elevation (ft MSL, CWSEL)	1730.02

Station (ft) =	9958.8	9975.5	10064.8	10084.3	10099.1	10115.4
Flow (%) =	1.1	58.0	3.7	3.6	3.8	
Area (sq ft) =	16.8	325.7	41.0	36.1	38.8	
Vel (ft/s) =	1.99	5.40	2.76	3.05	3.00	
Depth (ft) =	1.01	3.65	2.10	2.44	2.38	

Station (ft) =	10115.4	10135.4	10155.5	10176.6	10195.5	10212.2
Flow (%) =	3.7	4.2	4.7	3.9	3.6	
Area (sq ft) =	41.5	44.7	48.7	41.7	37.7	
Vel (ft/s) =	2.73	2.86	2.93	2.85	2.89	
Depth (ft) =	2.08	2.22	2.31	2.21	2.26	

Station (ft) =	10212.2	10228.6	10246.5	10293.1
Flow (%) =	3.7	3.2	2.7	
Area (sq ft) =	38.2	35.9	43.5	
Vel (ft/s) =	2.95	2.68	1.86	
Depth (ft) =	2.33	2.01	.93	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.379.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.379	.069	.052	.100	4.25	1733.15	.00	.00
.007116	450	430	415	1733.42	.27	3.08	.00
552.11	409	325	91	.00	1731.80	1731.10	3
3035	1278	1614	142	414.3	9740.72	10155.05	0
1.51	3.12	4.96	1.56	.000	288.2	1728.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 15.379
Total Discharge (cfs, Q) 3035
Computed Water Surface Elevation (ft MSL, CWSEL) 1733.15

Station (ft) =	9740.7	9759.0	9768.7	9782.3	9858.2	9868.1
Flow (%) =	3.6	4.6	5.2	5.2	5.1	
Area (sq ft) =	32.2	30.8	38.0	73.6	33.2	
Vel (ft/s) =	3.37	4.50	4.12	2.15	4.63	
Depth (ft) =	1.76	3.18	2.79	.97	3.35	

Station (ft) =	9868.1	9880.7	9895.4	9919.8	9949.6	9964.8
Flow (%) =	6.5	3.5	3.3	4.1	1.2	
Area (sq ft) =	42.2	30.9	46.0	61.0	22.1	
Vel (ft/s) =	4.68	3.42	2.19	2.03	1.61	
Depth (ft) =	3.35	2.10	1.88	2.05	1.45	

Station (ft) =	9964.8	9982.4	10033.0	10044.3	10065.3	10072.9
Flow (%) =	1.5	35.4	1.9	13.1	1.3	
Area (sq ft) =	27.3	182.8	26.4	70.9	17.9	
Vel (ft/s) =	1.68	5.87	2.20	5.61	2.21	
Depth (ft) =	1.55	3.61	2.33	3.38	2.35	

Station (ft) =	10072.9	10115.0	10155.1
Flow (%) =	4.0	.7	
Area (sq ft) =	68.9	22.4	
Vel (ft/s) =	1.76	.94	
Depth (ft) =	1.64	.56	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.443.

STATUS: (3265) Divided flow.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.443	.073	.050	.100	4.27	1735.87	.00	.00
.009979	335	335	355	1736.27	.41	2.81	.04
558.11	387	260	76	.00	1734.90	1734.00	2
3035	1225	1650	158	381.2	9741.94	10197.83	0
1.53	3.16	6.34	2.08	.000	291.2	1731.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 15.443
Total Discharge (cfs, Q) 3035
Computed Water Surface Elevation (ft MSL, CWSEL) 1735.87

Station (ft) =	9741.9	9801.7	9811.0	9829.0	9869.0	9921.5
Flow (%) =	16.2	5.7	6.6	5.3	3.7	
Area (sq ft) =	117.2	31.3	44.5	72.8	64.9	
Vel (ft/s) =	4.19	5.54	4.52	2.21	1.72	
Depth (ft) =	1.96	3.37	2.47	1.82	1.24	

Station (ft) =	9921.5	9975.2	10057.8	10079.4	10197.8
Flow (%) =	2.9	54.4	4.0	1.3	
Area (sq ft) =	56.6	260.5	47.6	28.9	
Vel (ft/s) =	1.54	6.34	2.52	1.35	
Depth (ft) =	1.05	3.15	2.21	.24	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.500.

STATUS: (3265) Divided flow.

15.500	.071	.066	.100	4.83	1738.73	.00	.00
.007519	300	300	295	1738.88	.15	2.58	.03
564.17	423	486	127	.00	1737.70	1736.60	3
3035	1031	1734	269	636.5	9555.28	10249.36	0
1.56	2.44	3.56	2.10	.000	294.7	1733.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 15.500
Total Discharge (cfs, Q) 3035
Computed Water Surface Elevation (ft MSL, CWSEL) 1738.73

Station (ft) =	9555.3	9610.3	9620.2	9678.5	9709.8	9719.5
Flow (%) =	4.3	3.2	3.5	4.2	3.3	
Area (sq ft) =	47.0	24.9	64.0	52.9	25.0	
Vel (ft/s) =	2.75	3.92	1.68	2.41	4.04	
Depth (ft) =	.86	2.51	1.10	1.69	2.58	

Station (ft) =	9719.5	9729.5	9742.6	9764.9	9840.3	9978.6
Flow (%) =	3.5	3.7	3.2	3.1	1.9	
Area (sq ft) =	26.2	30.2	33.5	71.4	47.9	
Vel (ft/s) =	4.08	3.75	2.89	1.34	1.19	
Depth (ft) =	2.62	2.31	1.50	.95	.35	

Station (ft) =	9978.6	10037.0	10124.7	10176.0	10200.6	10231.3
Flow (%) =	18.5	11.0	27.6	4.8	3.9	
Area (sq ft) =	144.3	168.5	173.8	60.9	57.8	
Vel (ft/s) =	3.90	1.99	4.81	2.38	2.02	
Depth (ft) =	2.47	1.92	3.39	2.48	1.88	

Station (ft) =	10231.3	10249.4
Flow (%) =	.3	
Area (sq ft) =	9.3	
Vel (ft/s) =	.83	
Depth (ft) =	.51	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.581.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.581	.091	.056	.100	4.93	1742.13	.00	.00
.008990	380	430	460	1742.29	.16	3.41	.00
574.73	607	349	239	.00	1741.00	1740.20	3
3035	1146	1465	423	883.2	9477.53	10360.72	0
1.59	1.89	4.19	1.76	.000	301.8	1737.20	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.581
Total Discharge (cfs, Q)	3035
Computed Water Surface Elevation (ft MSL, CWSEL)	1742.13

Station (ft) =	9477.5	9533.2	9560.8	9601.9	9645.8	9699.2
Flow (%) =	3.9	3.1	4.0	3.3	3.9	
Area (sq ft) =	67.2	47.0	62.7	58.0	69.8	
Vel (ft/s) =	1.77	2.02	1.92	1.75	1.70	
Depth (ft) =	1.21	1.70	1.53	1.32	1.31	

Station (ft) =	9699.2	9748.1	9823.3	9921.4	9935.0	9942.5
Flow (%) =	3.0	3.4	3.6	3.8	3.2	
Area (sq ft) =	57.6	73.1	78.3	29.3	20.9	
Vel (ft/s) =	1.58	1.40	1.39	3.99	4.57	
Depth (ft) =	1.18	.97	.80	2.15	2.79	

Station (ft) =	9942.5	9982.3	10020.6	10062.2	10144.2	10162.5
Flow (%) =	2.5	12.4	1.2	34.7	3.1	
Area (sq ft) =	43.7	90.7	31.0	228.1	39.6	
Vel (ft/s) =	1.77	4.14	1.16	4.62	2.36	
Depth (ft) =	1.10	2.37	.74	2.78	2.16	

Station (ft) =	10162.5	10222.9	10261.0	10341.3	10360.7
Flow (%) =	4.1	3.4	3.3	.1	
Area (sq ft) =	67.8	54.7	72.7	5.2	
Vel (ft/s) =	1.81	1.88	1.39	.60	
Depth (ft) =	1.12	1.44	.90	.27	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.637.

STATUS: (3265) Divided flow.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.637	.060	.060	.063	5.19	1744.59	.00	.00
.008045	285	295	300	1744.82	.23	2.51	.02
581.52	93	56	663	.00	1744.70	1745.00	2
3035	253	162	2618	523.7	9889.49	10528.91	0
1.62	2.71	2.86	3.95	.000	306.6	1739.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.637
Total Discharge (cfs, Q)	3035
Computed Water Surface Elevation (ft MSL, CWSEL)	1744.59

Station (ft) =	9889.5	9926.7	9951.6	9972.0	10019.0	10137.8
Flow (%) =	4.3	3.3	.8	5.4	7.3	
Area (sq ft) =	47.1	34.8	11.9	56.8	57.7	
Vel (ft/s) =	2.76	2.85	2.10	2.86	3.82	
Depth (ft) =	1.27	1.40	.58	1.48	.49	

Station (ft) =	10137.8	10143.7	10150.6	10156.2	10162.7	10175.6
Flow (%) =	6.7	7.7	5.4	4.0	3.1	
Area (sq ft) =	30.6	35.5	26.3	23.4	29.3	
Vel (ft/s) =	6.66	6.62	6.19	5.13	3.22	
Depth (ft) =	5.19	5.14	4.69	3.59	2.27	

Station (ft) =	10175.6	10255.0	10335.0	10360.0	10380.0	10400.0
Flow (%) =	3.1	7.8	15.4	12.9	7.6	
Area (sq ft) =	54.3	92.5	89.9	73.9	53.9	
Vel (ft/s) =	1.71	2.56	5.20	5.29	4.30	
Depth (ft) =	.68	1.16	3.59	3.69	2.69	

Station (ft) =	10400.0	10420.0	10528.9
Flow (%) =	3.2	2.1	
Area (sq ft) =	31.9	64.1	
Vel (ft/s) =	3.02	1.02	
Depth (ft) =	1.59	.59	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.683.

STATUS: (3265) Divided flow.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.683	.000	.060	.062	5.95	1746.95	.00	.00
.013399	235	245	255	1747.51	.56	2.59	.10
585.41	0	80	448	.00	1747.00	1748.00	2
3035	0	249	2785	306.0	9930.47	10471.25	0
1.63	.00	3.10	6.22	.000	309.0	1741.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.683
Total Discharge (cfs, Q)	3035
Computed Water Surface Elevation (ft MSL, CWSEL)	1746.95

Station (ft) =	9930.5	10015.0	10269.6	10277.8	10285.3	10292.4
Flow (%) =	8.2	3.4	5.2	10.0	12.9	
Area (sq ft) =	80.4	42.2	25.8	37.1	41.9	
Vel (ft/s) =	3.10	2.45	6.06	8.17	9.36	
Depth (ft) =	1.14	.17	3.15	4.95	5.90	

Station (ft) =	10292.4	10298.6	10301.6	10309.8	10322.5	10329.6
Flow (%) =	10.8	4.0	4.8	6.5	8.2	
Area (sq ft) =	35.6	15.0	24.6	34.8	31.9	
Vel (ft/s) =	9.19	8.04	5.88	5.64	7.75	
Depth (ft) =	5.75	5.00	3.01	2.74	4.50	

Station (ft) =	10329.6	10335.4	10339.4	10344.1	10352.3	10435.2
Flow (%) =	8.4	5.7	4.4	3.4	3.3	
Area (sq ft) =	29.9	20.4	19.0	20.1	47.3	
Vel (ft/s) =	8.55	8.48	6.96	5.16	2.11	
Depth (ft) =	5.15	5.10	4.05	2.45	.57	

Station (ft) =	10435.2	10471.2
Flow (%) =	1.0	
Area (sq ft) =	22.4	
Vel (ft/s) =	1.32	
Depth (ft) =	.62	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.749.

STATUS: (3265) Divided flow.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .48

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.749	.080	.060	.064	6.28	1751.68	.00	.00
.010326	355	345	345	1751.84	.16	4.29	.04
589.18	198	70	149	.00	1751.60	1752.10	3
1275	478	274	522	392.6	9781.57	10225.65	0
1.66	2.41	3.89	3.50	.000	311.8	1745.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 15.749
Total Discharge (cfs, Q) 1275
Computed Water Surface Elevation (ft MSL, CWSEL) 1751.68

Station (ft) =	9781.6	9807.2	9811.6	9815.5	9830.4	9869.1
Flow (%) =	6.8	6.2	3.5	3.2	5.5	
Area (sq ft) =	32.5	17.1	12.0	18.3	36.1	
Vel (ft/s) =	2.68	4.66	3.75	2.22	1.93	
Depth (ft) =	1.27	3.88	3.08	1.23	.93	

Station (ft) =	9869.1	9882.2	9918.9	9977.2	10013.5	10155.9
Flow (%) =	5.3	3.9	3.0	21.5	3.8	
Area (sq ft) =	23.8	29.9	28.3	70.7	35.3	
Vel (ft/s) =	2.86	1.65	1.36	3.89	1.36	
Depth (ft) =	1.82	.82	.49	1.97	.25	

Station (ft) =	10155.9	10183.3	10191.9	10212.1	10225.6
Flow (%) =	17.6	14.4	4.6	.6	
Area (sq ft) =	53.7	32.5	21.7	6.1	
Vel (ft/s) =	4.18	5.65	2.67	1.19	
Depth (ft) =	1.96	3.78	1.08	.45	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.842.

STATUS: (3265) Divided flow.

15.842	.080	.060	.064	8.68	1757.28	.00	.00
.012514	505	495	495	1757.49	.21	5.64	.01
593.88	59	126	217	.00	1756.80	1757.50	4
1275	75	571	628	491.8	9805.69	10338.95	0
1.70	1.27	4.51	2.89	.000	316.8	1748.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 15.842
Total Discharge (cfs, Q) 1275
Computed Water Surface Elevation (ft MSL, CWSEL) 1757.28

Station (ft) =	9805.7	9892.0	9960.2	10026.9	10167.2	10174.1
Flow (%) =	3.9	2.0	44.8	6.0	6.6	
Area (sq ft) =	39.7	19.7	126.6	42.7	16.8	
Vel (ft/s) =	1.25	1.30	4.51	1.78	5.00	
Depth (ft) =	.46	.29	2.10	.30	2.43	

Station (ft) =	10174.1	10180.2	10191.4	10221.1	10237.1	10242.9
Flow (%) =	3.5	4.2	3.9	4.7	6.3	
Area (sq ft) =	10.9	15.5	21.7	18.6	15.3	
Vel (ft/s) =	4.05	3.44	2.30	3.21	5.26	
Depth (ft) =	1.78	1.38	.73	1.16	2.63	

Station (ft) =	10242.9	10248.9	10287.7	10316.1	10338.9
Flow (%) =	5.3	3.8	3.4	1.7	
Area (sq ft) =	14.0	24.8	23.6	13.8	
Vel (ft/s) =	4.80	1.97	1.84	1.59	
Depth (ft) =	2.33	.64	.83	.60	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.890.

STATUS: (3265) Divided flow.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.890	.080	.060	.080	8.61	1760.61	.00	.00
.012329	250	250	275	1760.73	.12	3.23	.01
596.64	198	144	176	.00	1760.50	1760.00	5
1275	374	521	378	569.3	9719.71	10308.15	0
1.72	1.89	3.62	2.15	.000	320.0	1752.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.890
Total Discharge (cfs, Q)	1275
Computed Water Surface Elevation (ft MSL, CWSEL)	1760.61

Station (ft) =	9719.7	9797.4	9817.7	9847.1	9864.0	9882.3
Flow (%) =	4.0	4.3	5.8	3.2	3.5	
Area (sq ft) =	39.1	23.8	33.2	18.7	20.2	
Vel (ft/s) =	1.30	2.30	2.24	2.21	2.21	
Depth (ft) =	.50	1.17	1.13	1.11	1.11	

Station (ft) =	9882.3	9913.0	9948.1	9974.5	10068.3	10099.9
Flow (%) =	4.4	3.4	.7	40.9	4.7	
Area (sq ft) =	28.6	25.8	8.7	144.1	29.7	
Vel (ft/s) =	1.97	1.69	1.03	3.62	2.03	
Depth (ft) =	.93	.73	.33	1.54	.94	

Station (ft) =	10099.9	10122.4	10170.2	10181.9	10230.1	10236.9
Flow (%) =	3.5	3.7	3.2	4.4	3.1	
Area (sq ft) =	21.5	20.7	15.5	32.2	12.6	
Vel (ft/s) =	2.05	2.29	2.67	1.75	3.10	
Depth (ft) =	.96	.43	1.32	.67	1.86	

Station (ft) =	10236.9	10245.7	10281.9	10308.2
Flow (%) =	3.8	3.1	.2	
Area (sq ft) =	15.7	24.3	3.9	
Vel (ft/s) =	3.06	1.64	.61	
Depth (ft) =	1.78	.67	.15	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.898.

STATUS: (3265) Divided flow.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9691.00
Right Encroachment Station (ft, STENCR)	10468.70
Encroachment Method (TYPE)	1
Width or Percent Target	777.700

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.898	.080	.062	.080	6.83	1761.13	.00	.00
.009319	45	45	45	1761.21	.08	.48	.00
597.22	259	156	192	.00	1760.80	1760.50	2
1275	459	469	345	633.6	9691.00	10337.04	0
1.73	1.77	3.00	1.80	.000	320.6	1754.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 15.898
Total Discharge (cfs, Q) 1275
Computed Water Surface Elevation (ft MSL, CWSEL) 1761.13

Station (ft) =	9691.0	9832.5	9886.9	9919.4	9966.1	9982.7
Flow (%) =	16.3	11.5	4.1	3.2	1.0	
Area (sq ft) =	120.1	69.5	30.3	30.1	9.8	
Vel (ft/s) =	1.73	2.11	1.71	1.35	1.29	
Depth (ft) =	.85	1.28	.93	.64	.59	

Station (ft) =	9982.7	10051.2	10087.6	10113.8	10159.3	10173.3
Flow (%) =	31.0	5.8	3.2	3.5	3.4	
Area (sq ft) =	117.1	39.4	23.8	23.4	18.8	
Vel (ft/s) =	3.37	1.89	1.70	1.93	2.29	
Depth (ft) =	1.71	1.08	.91	.52	1.35	

Station (ft) =	10173.3	10228.4	10271.4	10292.1	10308.7	10337.0
Flow (%) =	4.2	3.0	4.5	4.5	.8	
Area (sq ft) =	38.3	28.3	26.0	24.2	9.4	
Vel (ft/s) =	1.41	1.36	2.21	2.37	1.04	
Depth (ft) =	.69	.66	1.25	1.46	.33	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.932.

15.932	.080	.060	.080	3.31	1763.01	.00	.00
.012639	195	180	175	1763.21	.21	1.97	.04
599.47	95	149	218	.00	1762.70	1762.00	2
1275	166	695	412	587.2	9771.34	10358.52	0
1.75	1.75	4.65	1.89	.000	323.2	1759.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 15.932
Total Discharge (cfs, Q) 1275
Computed Water Surface Elevation (ft MSL, CWSEL) 1763.01

Station (ft) =	9771.3	9810.9	9840.5	9928.7	9937.6	10006.6
Flow (%) =	4.6	5.2	3.1	.2	54.6	
Area (sq ft) =	31.1	30.7	31.1	2.8	149.7	
Vel (ft/s) =	1.90	2.15	1.27	.96	4.65	
Depth (ft) =	.79	1.04	.35	.31	2.17	

Station (ft) =	10006.6	10033.3	10123.6	10137.8	10150.9	10250.6
Flow (%) =	4.0	3.5	4.2	4.1	3.1	
Area (sq ft) =	25.3	37.0	20.1	19.4	29.7	
Vel (ft/s) =	2.02	1.20	2.69	2.72	1.31	
Depth (ft) =	.95	.41	1.41	1.48	.30	

Station (ft) =	10250.6	10296.6	10309.5	10342.7	10358.5
Flow (%) =	5.3	3.5	4.1	.5	
Area (sq ft) =	35.8	17.5	28.0	5.5	
Vel (ft/s) =	1.90	2.56	1.87	1.13	
Depth (ft) =	.78	1.36	.84	.35	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 16.021.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.021	.080	.060	.080	4.03	1769.03	.00	.00
.012564	515	470	450	1769.24	.21	6.02	.00
604.42	229	152	51	.00	1768.70	1768.30	5
1275	507	696	70	432.4	9715.90	10148.32	0
1.78	2.21	4.56	1.37	.000	328.8	1765.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.021
Total Discharge (cfs, Q)	1275
Computed Water Surface Elevation (ft MSL, CWSEL)	1769.03

Station (ft) =	9715.9	9768.5	9802.3	9819.2	9845.1	9867.2
Flow (%) =	3.5	5.2	4.0	3.5	3.0	
Area (sq ft) =	29.6	32.5	20.9	22.9	19.8	
Vel (ft/s) =	1.52	2.03	2.42	1.96	1.94	
Depth (ft) =	.56	.96	1.24	.88	.90	

Station (ft) =	9867.2	9898.2	9928.9	9932.8	9938.1	9955.6
Flow (%) =	3.2	6.1	3.6	3.4	4.0	
Area (sq ft) =	23.5	32.6	11.1	12.1	20.8	
Vel (ft/s) =	1.75	2.39	4.17	3.56	2.42	
Depth (ft) =	.76	1.06	2.84	2.29	1.19	

Station (ft) =	9955.6	9964.6	10036.6	10079.2	10148.3
Flow (%) =	.3	54.6	3.6	2.0	
Area (sq ft) =	3.5	152.8	28.3	23.4	
Vel (ft/s) =	1.10	4.56	1.62	1.07	
Depth (ft) =	.39	2.12	.66	.34	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 16.112.

STATUS: (3265) Divided flow.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.62

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.112	.080	.060	.080	5.38	1774.48	.00	.00
.010340	510	480	475	1774.69	.22	5.45	.00
610.46	215	202	220	.00	1774.00	1774.00	5
1875	414	974	485	507.7	9675.83	10236.37	0
1.82	1.93	4.80	2.20	.000	334.1	1769.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 16.112
Total Discharge (cfs, Q) 1875
Computed Water Surface Elevation (ft MSL, CWSEL) 1774.48

Station (ft) =	9675.8	9804.1	9916.9	9941.3	9969.8	10045.6
Flow (%) =	3.3	11.3	4.8	2.8	52.0	
Area (sq ft) =	40.3	112.2	35.5	27.2	202.9	
Vel (ft/s) =	1.52	1.89	2.53	1.92	4.80	
Depth (ft) =	.31	.99	1.45	.95	2.68	

Station (ft) =	10045.6	10088.5	10109.1	10184.8	10224.8	10236.4
Flow (%) =	5.7	6.2	10.0	3.8	.2	
Area (sq ft) =	48.6	39.7	89.2	38.4	4.5	
Vel (ft/s) =	2.19	2.93	2.11	1.84	1.01	
Depth (ft) =	1.13	1.93	1.18	.96	.39	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 16.164.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.164	.080	.060	.000	5.14	1777.74	.00	.00
.015458	240	275	315	1778.06	.31	3.33	.03
613.93	365	136	0	.00	1777.40	1778.00	2
1875	1060	814	0	350.0	9676.29	10026.28	0
1.84	2.90	5.97	.00	.000	336.7	1772.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.164
Total Discharge (cfs, Q)	1875
Computed Water Surface Elevation (ft MSL, CWSEL)	1777.74

Station (ft) =	9676.3	9700.0	9715.0	9735.7	9761.9	9790.6
Flow (%) =	9.3	8.4	3.2	3.2	5.3	
Area (sq ft) =	45.0	37.4	23.3	26.0	36.4	
Vel (ft/s) =	3.87	4.23	2.55	2.30	2.71	
Depth (ft) =	1.90	2.49	1.13	.99	1.27	

Station (ft) =	9790.6	9807.2	9839.9	9860.6	9882.5	9897.5
Flow (%) =	3.3	6.2	4.4	4.7	3.0	
Area (sq ft) =	22.3	42.3	28.8	30.5	20.1	
Vel (ft/s) =	2.81	2.74	2.88	2.88	2.81	
Depth (ft) =	1.34	1.29	1.39	1.39	1.34	

Station (ft) =	9897.5	9919.2	9978.2	10033.1
Flow (%) =	3.1	2.5	43.5	
Area (sq ft) =	23.7	29.8	136.4	
Vel (ft/s) =	2.45	1.54	5.97	
Depth (ft) =	1.09	.51	2.84	

STATUS: Analyzing cross-section reach 16.254.

STATUS: (3265) Divided flow.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.90

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.254	.080	.060	.080	6.49	1783.39	.00	.00
.010895	475	475	485	1784.04	.65	5.88	.10
619.48	47	435	32	.00	1782.90	1782.10	4
2995	51	2878	65	312.1	9721.35	10079.86	0
1.86	1.07	6.60	2.03	.000	340.3	1776.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 16.254
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1783.39

Station (ft) =	9721.3	9933.9	10039.8	10079.9
Flow (%) =	1.7	96.1	2.2	
Area (sq ft) =	47.9	435.8	32.2	
Vel (ft/s) =	1.07	6.60	2.03	
Depth (ft) =	.23	4.12	.80	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 16.345.

16.345	.056	.050	.000	5.68	1788.08	.00	.00
.008902	480	480	485	1788.76	.68	4.72	.01
624.87	309	152	0	.00	1784.20	1789.00	3
2995	1845	1149	0	120.6	9889.21	10009.76	0
1.88	5.96	7.54	.00	.000	342.7	1782.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 16.345
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1788.08

Station (ft) =	9889.2	9907.9	9917.6	9926.6	9933.2	9937.3
Flow (%) =	7.2	5.0	5.6	5.4	4.2	
Area (sq ft) =	42.4	27.0	28.2	24.3	17.4	
Vel (ft/s) =	5.06	5.56	5.99	6.69	7.23	
Depth (ft) =	2.27	2.79	3.14	3.69	4.24	

Station (ft) =	9937.3	9947.3	9956.2	9966.7	9977.8	10010.5
Flow (%) =	12.3	9.6	6.0	6.2	38.4	
Area (sq ft) =	46.9	38.6	41.3	43.1	152.5	
Vel (ft/s) =	7.85	7.44	4.37	4.33	7.54	
Depth (ft) =	4.69	4.34	3.94	3.89	4.77	

STATUS: Analyzing cross-section reach 16.421.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.421	.080	.050	.080	5.02	1793.42	1793.42	.00
.012552	410	400	400	1794.04	.62	4.23	.01
630.42	63	220	452	.00	1791.00	1791.90	3
2995	237	1757	999	538.4	9934.65	10473.08	9
1.90	3.72	7.96	2.21	.000	345.8	1788.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.421
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1793.42

Station (ft) =	9934.6	9954.6	9963.7	10022.7	10038.9	10101.4
Flow (%) =	5.0	3.0	58.7	3.5	3.6	
Area (sq ft) =	40.9	23.0	220.8	31.8	54.1	
Vel (ft/s) =	3.64	3.86	7.96	3.27	1.99	
Depth (ft) =	2.05	2.52	3.74	1.96	.87	

Station (ft) =	10101.4	10170.1	10293.0	10330.0	10400.0	10440.0
Flow (%) =	3.4	5.5	3.8	7.2	3.6	
Area (sq ft) =	55.0	94.1	47.1	88.1	46.9	
Vel (ft/s) =	1.85	1.74	2.44	2.44	2.32	
Depth (ft) =	.80	.77	1.27	1.26	1.17	

Station (ft) =	10440.0	10473.1
Flow (%) =	2.8	
Area (sq ft) =	35.7	
Vel (ft/s) =	2.34	
Depth (ft) =	1.08	

STATUS: Analyzing cross-section reach 16.481.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.481	.080	.065	.080	5.82	1797.22	.00	.00
.009519	290	315	365	1797.57	.35	3.50	.03
636.03	323	263	161	.00	1795.10	1795.00	2
2995	1024	1547	422	348.7	9809.40	10158.09	0
1.92	3.17	5.88	2.62	.000	349.3	1791.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.481
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1797.22

Station (ft) =	9809.4	9842.3	9852.7	9878.9	9896.4	9923.4
Flow (%) =	6.5	3.1	7.5	4.3	5.6	
Area (sq ft) =	61.9	26.9	66.6	40.8	56.8	
Vel (ft/s) =	3.15	3.41	3.38	3.19	2.98	
Depth (ft) =	1.88	2.58	2.54	2.33	2.10	

Station (ft) =	9923.4	9946.2	9955.7	10016.6	10028.4	10050.8
Flow (%) =	5.2	2.0	51.7	3.1	6.1	
Area (sq ft) =	50.4	19.8	263.2	28.7	55.3	
Vel (ft/s) =	3.07	2.96	5.88	3.28	3.31	
Depth (ft) =	2.21	2.08	4.32	2.43	2.47	

Station (ft) =	10050.8	10133.6	10158.1
Flow (%) =	3.4	1.5	
Area (sq ft) =	54.2	22.9	
Vel (ft/s) =	1.87	1.94	
Depth (ft) =	.66	.94	

STATUS: Analyzing cross-section reach 16.551.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.551	.065	.050	.080	4.65	1800.95	.00	.00
.011680	380	370	335	1801.40	.45	3.80	.03
641.86	0	234	437	.00	1800.90	1799.40	3
2995	0	1579	1415	315.6	9978.90	10294.46	0
1.94	.02	6.74	3.23	.000	351.9	1796.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 16.551
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1800.95

Station (ft) =	9978.9	10054.7	10073.8	10094.2	10112.7	10126.2
Flow (%) =	52.7	4.7	3.7	4.7	4.1	
Area (sq ft) =	234.3	41.6	36.7	41.0	33.4	
Vel (ft/s) =	6.74	3.39	2.98	3.43	3.67	
Depth (ft) =	3.10	2.18	1.80	2.22	2.47	

Station (ft) =	10126.2	10138.8	10157.4	10180.8	10195.6	10216.5
Flow (%) =	3.8	4.5	5.9	3.8	4.2	
Area (sq ft) =	30.8	40.1	51.6	33.1	40.1	
Vel (ft/s) =	3.65	3.35	3.40	3.44	3.10	
Depth (ft) =	2.45	2.16	2.20	2.24	1.92	

Station (ft) =	10216.5	10228.6	10260.0	10294.5
Flow (%) =	3.3	4.0	.7	
Area (sq ft) =	28.2	44.8	16.3	
Vel (ft/s) =	3.54	2.70	1.22	
Depth (ft) =	2.33	1.43	.47	

STATUS: Analyzing cross-section reach 16.628.

STATUS: (3265) Divided flow.

16.628	.080	.050	.075	4.69	1805.69	1805.67	.00
.013380	455	410	365	1806.46	.77	4.97	.10
647.58	140	246	213	.00	1803.50	1803.80	5
2995	365	2051	578	398.9	9783.92	10214.04	5
1.96	2.60	8.33	2.71	.000	355.1	1801.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 16.628
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1805.69

Station (ft) =	9783.9	9898.7	9926.1	9954.4	10019.4	10041.8
Flow (%) =	3.7	3.9	4.5	68.5	4.6	
Area (sq ft) =	53.6	41.4	45.7	246.3	40.2	
Vel (ft/s) =	2.09	2.84	2.97	8.33	3.39	
Depth (ft) =	.47	1.51	1.61	3.79	1.80	

Station (ft) =	10041.8	10096.9	10175.0	10198.0	10214.0
Flow (%) =	3.0	5.3	5.5	.9	
Area (sq ft) =	42.4	71.7	45.5	13.5	
Vel (ft/s) =	2.12	2.22	3.63	2.04	
Depth (ft) =	.77	.92	1.98	.84	

STATUS: Analyzing cross-section reach 16.714.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.714	.080	.050	.080	5.18	1810.68	.00	.00
.009041	380	450	505	1811.41	.73	4.95	.00
653.42	69	323	126	.00	1808.50	1808.00	3
2995	113	2413	468	234.6	9825.36	10059.98	0
1.98	1.62	7.46	3.69	.000	358.4	1805.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 16.714
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1810.68

Station (ft) =	9825.4	9939.7	10014.5	10032.0	10040.5	10047.1
Flow (%) =	3.8	80.6	5.6	3.6	3.4	
Area (sq ft) =	69.9	323.6	48.4	27.9	24.3	
Vel (ft/s) =	1.62	7.46	3.48	3.90	4.21	
Depth (ft) =	.61	4.33	2.76	3.28	3.68	

Station (ft) =	10047.1	10060.0
Flow (%) =		3.0
Area (sq ft) =		26.1
Vel (ft/s) =		3.40
Depth (ft) =		2.03

STATUS: Analyzing cross-section reach 16.788.

STATUS: (3265) Divided flow.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.788	.080	.055	.080	5.91	1814.81	.00	.00
.013386	410	390	390	1815.73	.92	4.27	.06
657.78	103	316	25	.00	1812.60	1813.20	2
2995	348	2595	51	177.1	9692.22	10054.33	0
1.99	3.37	8.19	2.00	.000	360.3	1808.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.788
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1814.81

Station (ft) =	9692.2	9923.3	9935.7	9947.1	10021.0	10054.3
Flow (%) =	5.0	3.6	3.1	86.7	1.7	
Area (sq ft) =	49.6	28.7	25.2	316.8	25.7	
Vel (ft/s) =	3.00	3.76	3.65	8.19	2.00	
Depth (ft) =	.21	2.31	2.21	4.29	.77	

STATUS: Analyzing cross-section reach 16.861.

STATUS: (3265) Divided flow.

16.861	.070	.045	.080	6.10	1819.00	.00	.00
.008138	365	390	435	1819.78	.78	4.03	.01
662.37	29	317	212	.00	1819.60	1816.50	2
2995	36	2467	491	286.3	9884.99	10210.67	0
2.01	1.24	7.76	2.31	.000	362.4	1812.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 16.861
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1819.00

Station (ft) =	9885.0	9943.3	10055.6	10075.3	10091.0	10108.3
Flow (%) =	1.2	82.4	4.5	3.0	3.3	
Area (sq ft) =	29.6	317.9	45.6	33.0	35.8	
Vel (ft/s) =	1.24	7.76	2.93	2.75	2.78	
Depth (ft) =	.51	4.36	2.32	2.10	2.07	

Station (ft) =	10108.3	10163.6	10210.7
Flow (%) =	3.3	2.3	
Area (sq ft) =	57.4	41.0	
Vel (ft/s) =	1.73	1.66	
Depth (ft) =	1.04	.87	

STATUS: Analyzing cross-section reach 16.936.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.936	.085	.045	.070	6.20	1823.30	1823.30	.00
.012365	445	395	345	1824.69	1.38	3.88	.18
666.57	45	271	75	.00	1823.30	1821.90	2
2995	121	2694	178	186.8	9915.07	10114.47	8
2.02	2.65	9.92	2.37	.000	364.4	1817.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 16.936
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1823.30

Station (ft) =	9915.1	9933.0	9966.1	10025.4	10055.2	10114.5
Flow (%) =	3.1	1.0	90.0	3.8	2.2	
Area (sq ft) =	30.5	15.4	271.7	39.7	35.6	
Vel (ft/s) =	3.06	1.85	9.92	2.86	1.82	
Depth (ft) =	1.70	.47	4.58	1.33	.60	

STATUS: Analyzing cross-section reach 17.011.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17.011	.080	.045	.080	6.34	1827.64	1827.04	.00
.007775	345	395	445	1828.56	.92	3.83	.05
670.71	125	327	70	.00	1826.00	1825.80	4
2995	154	2667	173	309.9	9769.96	10079.87	8
2.03	1.23	8.14	2.45	.000	366.6	1821.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 17.011
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1827.64

Station (ft) =	9770.0	9828.0	9910.0	9970.0	10039.0	10045.4
Flow (%) =	1.1	1.6	2.5	89.1	.9	
Area (sq ft) =	30.2	44.4	50.5	327.6	11.5	
Vel (ft/s) =	1.06	1.09	1.46	8.14	2.42	
Depth (ft) =	.52	.54	.84	4.75	1.79	

Station (ft) =	10045.4	10052.9	10059.1	10068.0	10073.5	10079.5
Flow (%) =	1.1	1.1	1.7	.8	.2	
Area (sq ft) =	13.8	12.3	18.6	9.9	4.8	
Vel (ft/s) =	2.46	2.59	2.68	2.40	1.38	
Depth (ft) =	1.84	1.99	2.09	1.79	.79	

STATUS: Analyzing cross-section reach 17.046.

17.046	.080	.045	.080	5.78	1828.98	.00	.00
.007345	210	185	180	1829.99	1.01	1.40	.03
672.71	33	351	10	.00	1824.70	1827.10	3
2995	94	2883	16	111.8	9935.44	10047.27	0
2.04	2.84	8.20	1.50	.000	367.6	1823.20	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 17.046
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1828.98

Station (ft) =	9935.4	9941.1	9948.6	9955.2	10025.8	10036.5
Flow (%) =	.0	.7	2.5	96.3	.5	
Area (sq ft) =	1.4	10.4	21.7	351.7	10.5	
Vel (ft/s) =	.62	1.94	3.42	8.20	1.56	
Depth (ft) =	.24	1.38	3.28	4.98	.98	

Station (ft) =	10036.5	10047.3
Flow (%) =	.0	
Area (sq ft) =	.4	
Vel (ft/s) =	.19	
Depth (ft) =	.04	

STATUS: Analyzing cross-section reach 17.135.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3685) 20 trials attempted in balancing assumed water surface elevation (WSEL) and computed water surface elevation (CWSEL).

WARNING: (3693) It is probable that critical depth has been crossed.

WARNING: (3720) Critical depth has been assumed.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17.135	.080	.045	.080	7.87	1835.37	1835.37	.00
.009770	495	470	470	1836.94	1.57	3.97	.17
677.13	49	223	145	.00	1831.80	1832.40	20
2995	116	2460	418	166.3	9927.32	10096.83	11
2.05	2.33	11.01	2.88	.000	369.1	1827.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 17.135
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1835.37

Station (ft) =	9927.3	9982.3	10016.3	10040.2	10069.9	10096.8
Flow (%) =	3.9	82.1	6.7	4.8	2.5	
Area (sq ft) =	49.9	223.4	59.4	52.8	32.9	
Vel (ft/s) =	2.33	11.01	3.38	2.70	2.28	
Depth (ft) =	.91	6.57	2.49	1.78	1.22	

STATUS: Analyzing cross-section reach 17.200.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

17.200	.085	.050	.085	6.17	1839.47	.00	.00
.008094	365	345	330	1840.07	.60	3.03	.10
681.44	46	229	414	.00	1836.80	1836.80	2
2995	109	1776	1109	289.5	9941.83	10231.28	0
2.07	2.33	7.74	2.68	.000	370.9	1833.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 17.200
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1839.47

Station (ft) =	9941.8	9976.8	10022.6	10040.7	10065.0	10076.4
Flow (%) =	3.6	59.3	3.5	6.5	4.2	
Area (sq ft) =	46.7	229.6	39.2	64.3	36.7	
Vel (ft/s) =	2.33	7.74	2.64	3.03	3.43	
Depth (ft) =	1.34	5.01	2.16	2.65	3.22	

Station (ft) =	10076.4	10086.2	10109.6	10153.1	10175.0	10193.1
Flow (%) =	3.3	3.7	4.4	4.8	4.2	
Area (sq ft) =	30.1	44.4	64.3	51.5	44.1	
Vel (ft/s) =	3.32	2.46	2.06	2.79	2.86	
Depth (ft) =	3.07	1.90	1.48	2.35	2.44	

Station (ft) =	10193.1	10231.3
Flow (%) =	2.5	
Area (sq ft) =	39.3	
Vel (ft/s) =	1.87	
Depth (ft) =	1.03	

Contraction Coefficient (CCHV) .100

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 17.262.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17.262	.080	.050	.080	5.23	1842.73	1842.73	.00
.018018	300	325	355	1844.10	1.37	3.77	.23
685.37	53	278	0	.00	1841.90	1842.50	2
2785	115	2669	0	160.5	9882.06	10042.58	15
2.08	2.14	9.57	.59	.000	372.6	1837.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	17.262
Total Discharge (cfs, Q)	2785
Computed Water Surface Elevation (ft MSL, CWSEL)	1842.73

Station (ft) =	9882.1	9898.9	9916.0	9929.7	9939.2	9955.2
Flow (%) =	.6	1.9	1.1	.3	.1	
Area (sq ft) =	9.2	19.3	12.7	4.6	2.9	
Vel (ft/s) =	1.73	2.71	2.38	1.53	.80	
Depth (ft) =	.54	1.13	.93	.48	.18	

Station (ft) =	9955.2	9966.1	10039.9	10042.6
Flow (%) =	.3	95.8	.0	
Area (sq ft) =	5.2	278.8	.3	
Vel (ft/s) =	1.53	9.57	.59	
Depth (ft) =	.48	3.78	.12	

STATUS: Analyzing cross-section reach 17.319.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.97

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17.319	.080	.050	.080	5.76	1846.36	.00	.00
.004659	260	300	300	1846.64	.28	2.43	.11
689.63	149	286	495	.00	1843.60	1843.40	3
2785	279	1546	959	452.1	9878.90	10330.98	0
2.10	1.86	5.40	1.94	.000	374.6	1840.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 17.319
Total Discharge (cfs, Q) 2785
Computed Water Surface Elevation (ft MSL, CWSEL) 1846.36

Station (ft) =	9878.9	9937.5	9967.9	9977.1	10042.5	10061.4
Flow (%) =	4.0	4.3	1.8	55.5	4.6	
Area (sq ft) =	68.4	59.7	21.7	286.4	51.8	
Vel (ft/s) =	1.64	1.99	2.24	5.40	2.48	
Depth (ft) =	1.17	1.96	2.36	4.38	2.74	

Station (ft) =	10061.4	10077.3	10091.0	10115.8	10150.5	10187.2
Flow (%) =	4.3	3.4	3.1	4.1	3.1	
Area (sq ft) =	46.3	37.9	44.7	61.1	52.3	
Vel (ft/s) =	2.59	2.50	1.91	1.88	1.65	
Depth (ft) =	2.91	2.76	1.80	1.76	1.43	

Station (ft) =	10187.2	10248.6	10289.6	10327.1	10331.0
Flow (%) =	4.3	4.5	3.0	.0	
Area (sq ft) =	79.8	69.4	51.4	.5	
Vel (ft/s) =	1.52	1.80	1.63	.33	
Depth (ft) =	1.30	1.69	1.37	.13	

STATUS: Analyzing cross-section reach 17.364.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3685) 20 trials attempted in balancing assumed water surface elevation (WSEL) and computed water surface elevation (CWSEL).

WARNING: (3693) It is probable that critical depth has been crossed.

WARNING: (3720) Critical depth has been assumed.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
---	---	---	---	---	---	---	---
17.364	.080	.050	.080	5.95	1849.25	1849.25	.00
.014030	200	240	260	1850.27	1.02	1.80	.22
693.46	114	261	77	.00	1847.30	1847.20	20
2785	241	2312	231	283.2	9819.53	10102.68	8
2.11	2.11	8.83	3.00	.000	376.6	1843.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 17.364
Total Discharge (cfs, Q) 2785
Computed Water Surface Elevation (ft MSL, CWSEL) 1849.25

Station (ft) =	9819.5	9913.5	9954.5	9966.5	10031.7	10051.1
Flow (%) =	3.4	3.1	2.1	83.0	5.5	
Area (sq ft) =	55.1	40.2	19.2	261.9	41.6	
Vel (ft/s) =	1.74	2.18	3.01	8.83	3.66	
Depth (ft) =	.59	.98	1.60	4.02	2.15	

Station (ft) =	10051.1	10102.7
Flow (%) =	2.8	
Area (sq ft) =	35.5	
Vel (ft/s) =	2.23	
Depth (ft) =	.69	

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 17.425.

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17.425	.080	.050	.080	7.44	1853.14	.00	.00
.008795	300	320	325	1853.87	.73	3.51	.09
697.19	2	272	287	.00	1852.00	1850.30	2
2785	2	2113	668	306.0	9966.68	10272.73	0
2.12	1.16	7.76	2.32	.000	378.8	1845.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 17.425
Total Discharge (cfs, Q) 2785
Computed Water Surface Elevation (ft MSL, CWSEL) 1853.14

Station (ft) =	9966.7	9970.2	10025.9	10045.0	10055.3	10065.0
Flow (%) =	.1	75.9	6.0	3.6	3.1	
Area (sq ft) =	2.0	272.5	50.3	28.7	26.1	
Vel (ft/s) =	1.16	7.76	3.32	3.45	3.36	
Depth (ft) =	.57	4.89	2.64	2.79	2.69	

Station (ft) =	10065.0	10129.3	10199.2	10262.6	10272.7
Flow (%) =	4.0	4.2	3.1	.0	
Area (sq ft) =	59.9	67.6	53.5	1.7	
Vel (ft/s) =	1.86	1.72	1.60	.53	
Depth (ft) =	.93	.97	.84	.17	

STATUS: Analyzing cross-section reach 17.476.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.65

17.476	.080	.050	.080	6.12	1855.02	.00	.00
.003245	270	270	270	1855.34	.32	1.36	.12
700.86	7	599	16	.00	1851.50	1851.50	3
2785	9	2751	24	147.2	9889.56	10036.79	0
2.14	1.29	4.59	1.48	.000	380.2	1848.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 17.476
Total Discharge (cfs, Q) 2785
Computed Water Surface Elevation (ft MSL, CWSEL) 1855.02

Station (ft) =	9889.6	9893.7	10027.4	10036.8
Flow (%) =	.3	98.8	.9	
Area (sq ft) =	7.3	599.2	16.5	
Vel (ft/s) =	1.29	4.59	1.48	
Depth (ft) =	1.76	4.48	1.76	

T1 P&D No. 10320.00; FCD No. 90-24
T2 TRILBY WASH; GRAND AVENUE TO C.A.P.
T3 MAIN CHANNEL; ENCROACHED

JOB PARAMETERS :

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	3	0	0	0.008933	0	0.0	0.0	1545.51	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15

STATUS: Analyzing profile 2.

STATUS: Analyzing cross-section reach 10.445.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9932.00
Right Encroachment Station (ft, STENCR)	10068.00
Encroachment Method (TYPE)	1
Width or Percent Target	136.000

LOCATED IN CAP OVERCHUTE - S. EDGE OF DIST BSN

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.445	.000	.015	.000	2.94	1545.51	1545.51	1545.51
.002451	0	0	0	1546.98	1.47	.00	.00
.00	0	395	0	.00	1549.60	1549.60	0
3851	0	3850	0	135.6	9932.20	10067.80	5
.00	.00	9.74	.00	.000	.0	1542.57	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.445
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1545.51

Station (ft) = 9932.2 10067.8
Flow (%) = 100.0
Area (sq ft) = 395.6
Vel (ft/s) = 9.74
Depth (ft) = 2.92

STATUS: Analyzing cross-section reach 10.450.

WARNING: (3685) 20 trials attempted in balancing assumed water surface elevation (WSEL) and computed water surface elevation (CWSEL).

WARNING: (3693) It is probable that critical depth has been crossed.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9932.00
Right Encroachment Station (ft, STENCR) 10068.00
Encroachment Method (TYPE) 1
Width or Percent Target 136.000

10.450	.000	.015	.000	2.96	1547.69	1547.69	1547.69
.002443	27	27	27	1549.16	1.47	.07	.00
.25	0	396	0	.00	1551.70	1551.70	20
3851	0	3850	0	135.6	9932.20	10067.80	5
.00	.00	9.72	.00	.000	.1	1544.73	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	10.450
Total Discharge (cfs, Q)	3851
Computed Water Surface Elevation (ft MSL, CWSEL)	1547.69

Station (ft) = 9932.2 10067.8
Flow (%) = 100.0
Area (sq ft) = 396.0
Vel (ft/s) = 9.72
Depth (ft) = 2.92

Contraction Coefficient (CCHV)	.100
Expansion Coefficient (CEHV)	.300

STATUS: Analyzing cross-section reach 10.468.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9932.00
Right Encroachment Station (ft, STENCR)	10068.00
Encroachment Method (TYPE)	1
Width or Percent Target	136.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.468	.000	.015	.000	3.56	1548.36	.00	1548.36
.001334	96	96	96	1549.37	1.01	.17	.05
1.21	0	476	0	.00	1551.80	1551.80	4
3851	0	3850	0	135.6	9932.20	10067.80	0
.00	.00	8.08	.00	.000	.4	1544.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	10.468
Total Discharge (cfs, Q)	3851
Computed Water Surface Elevation (ft MSL, CWSEL)	1548.36

Station (ft) = 9932.2 10067.8
Flow (%) = 100.0
Area (sq ft) = 476.4
Vel (ft/s) = 8.08
Depth (ft) = 3.51

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 10.473.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.56

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9920.00
Right Encroachment Station (ft, STENCR) 10080.00
Encroachment Method (TYPE) 1
Width or Percent Target 160.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.473	.000	.015	.000	4.22	1549.02	.00	1549.02
.000550	26	26	26	1549.54	.53	.02	.15
1.55	0	662	0	.00	1551.90	1551.80	3
3851	0	3850	0	158.7	9920.64	10079.36	0
.01	.00	5.82	.00	.000	.5	1544.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.473
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1549.02

Station (ft) = 9920.6 10079.4
Flow (%) = 100.0
Area (sq ft) = 662.0
Vel (ft/s) = 5.82
Depth (ft) = 4.17

Contraction Coefficient (CCHV) .600

Expansion Coefficient (CEHV) .800

STATUS: Analyzing cross-section reach 10.474.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .24

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9910.90
Right Encroachment Station (ft, STENCR)	10090.30
Encroachment Method (TYPE)	1
Width or Percent Target	179.399

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.474	.085	.055	.090	4.10	1549.00	.00	1549.00
.009843	10	5	10	1549.63	.63	.01	.08
1.62	13	591	17	.00	1545.90	1545.70	2
3851	29	3782	38	179.4	9910.94	10090.30	0
.01	2.23	6.40	2.22	.000	.5	1544.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	10.474
Total Discharge (cfs, Q)	3851
Computed Water Surface Elevation (ft MSL, CWSEL)	1549.00

Station (ft) =	9910.9	9919.6	10079.9	10090.3
Flow (%) =	.8	98.2	1.0	
Area (sq ft) =	13.4	591.2	17.2	
Vel (ft/s) =	2.23	6.40	2.22	
Depth (ft) =	1.55	3.69	1.65	

Contraction Coefficient (CCHV) .300

Expansion Coefficient (CEHV) .500

STATUS: Analyzing cross-section reach 10.479.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9895.40
Right Encroachment Station (ft, STENCR)	10110.50
Encroachment Method (TYPE)	1
Width or Percent Target	215.100

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.479	.085	.055	.090	4.81	1549.51	.00	1549.51
.005713	30	25	45	1549.89	.38	.19	.07
2.05	10	766	10	.00	1546.30	1546.60	2
3851	17	3816	16	215.1	9895.40	10110.50	0
.01	1.70	4.98	1.54	.000	.6	1544.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	10.479
Total Discharge (cfs, Q)	3851
Computed Water Surface Elevation (ft MSL, CWSEL)	1549.51

Station (ft) =	9895.4	9901.8	10103.2	10110.5
Flow (%) =	.5	99.1	.4	
Area (sq ft) =	10.4	766.9	10.8	
Vel (ft/s) =	1.70	4.98	1.54	
Depth (ft) =	1.63	3.81	1.48	

Contraction Coefficient (CCHV)	.100
Expansion Coefficient (CEHV)	.300

STATUS: Analyzing cross-section reach 10.528.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9910.00
Right Encroachment Station (ft, STENCR)	10080.00
Encroachment Method (TYPE)	1
Width or Percent Target	170.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.528	.085	.055	.090	6.48	1551.08	.00	1550.96
.008450	235	260	290	1551.76	.69	1.78	.09
6.30	142	478	27	.00	1548.30	1549.60	2
3851	437	3360	53	170.0	9910.00	10080.00	0
.02	3.08	7.02	1.91	.000	1.8	1544.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.528
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1551.08

Station (ft) =	9910.0	9924.3	9936.9	9948.9	9960.9	10060.7
Flow (%) =	3.0	2.9	2.7	2.7	87.3	
Area (sq ft) =	40.4	35.0	33.3	33.3	478.6	
Vel (ft/s) =	2.84	3.17	3.17	3.17	7.02	
Depth (ft) =	2.83	2.78	2.78	2.78	4.80	

Station (ft) =	10060.7	10068.4	10079.5	10080.0
Flow (%) =	.6	.8	.0	
Area (sq ft) =	11.4	15.8	.7	
Vel (ft/s) =	1.97	1.92	.78	
Depth (ft) =	1.48	1.43	1.38	

STATUS: Analyzing cross-section reach 10.592.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9886.00
Right Encroachment Station (ft, STENCR) 10074.00
Encroachment Method (TYPE) 1
Width or Percent Target 188.000

10.592	.085	.055	.090	8.03	1553.63	.00	1552.73
.005194	350	340	345	1554.03	.39	2.24	.03
12.38	345	340	205	.00	1550.00	1550.40	2
3851	1096	2104	650	188.0	9886.00	10074.00	0
.04	3.17	6.18	3.16	.000	3.2	1545.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	10.592
Total Discharge (cfs, Q)	3851
Computed Water Surface Elevation (ft MSL, CWSEL)	1553.63

Station (ft) =	9886.0	9898.9	9911.5	9925.5	9937.9	9949.2
Flow (%) =	3.2	4.0	4.6	4.0	4.3	
Area (sq ft) =	47.6	49.6	55.8	48.8	49.5	
Vel (ft/s) =	2.56	3.14	3.17	3.14	3.37	
Depth (ft) =	3.69	3.93	3.98	3.93	4.38	

Station (ft) =	9949.2	9959.4	9970.4	10029.0	10046.8	10058.8
Flow (%) =	4.7	3.7	54.6	4.9	5.5	
Area (sq ft) =	50.0	44.4	340.7	65.8	60.9	
Vel (ft/s) =	3.62	3.19	6.18	2.85	3.47	
Depth (ft) =	4.90	4.03	5.81	3.70	5.07	

Station (ft) =	10058.8	10063.8	10074.0
Flow (%) =	3.1	3.4	
Area (sq ft) =	30.4	48.7	
Vel (ft/s) =	3.94	2.71	
Depth (ft) =	6.08	4.77	

STATUS: Analyzing cross-section reach 10.683.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9902.00
Right Encroachment Station (ft, STENCR)	10080.60
Encroachment Method (TYPE)	1
Width or Percent Target	178.600

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.683	.085	.055	.090	7.93	1556.03	.00	1555.12
.004895	505	480	475	1556.49	.46	2.44	.02
21.91	126	479	209	.00	1553.30	1552.80	3
3851	321	2912	616	178.6	9902.00	10080.60	0
.06	2.54	6.07	2.94	.000	5.2	1548.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.683
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1556.03

Station (ft) =	9902.0	9921.8	9942.1	10023.6	10035.0	10043.0
Flow (%) =	4.4	3.9	75.6	4.3	4.0	
Area (sq ft) =	66.8	59.9	479.9	52.3	43.3	
Vel (ft/s) =	2.56	2.52	6.07	3.18	3.56	
Depth (ft) =	3.37	2.95	5.89	4.58	5.42	

Station (ft) =	10043.0	10060.7	10080.6
Flow (%) =	5.8	1.9	
Area (sq ft) =	73.9	40.1	
Vel (ft/s) =	3.01	1.83	
Depth (ft) =	4.18	2.01	

STATUS: Analyzing cross-section reach 10.761.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9943.00
Right Encroachment Station (ft, STENCR) 10122.00
Encroachment Method (TYPE) 1
Width or Percent Target 179.000

10.761	.085	.055	.090	7.39	1558.19	.00	1557.99
.005963	380	410	465	1558.74	.55	2.23	.02
29.21	87	570	57	.00	1554.60	1555.60	2
3851	219	3514	116	179.0	9943.00	10122.00	0
.08	2.52	6.16	2.01	.000	6.9	1550.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 10.761
Total Discharge (cfs, Q) 3851
Computed Water Surface Elevation (ft MSL, CWSEL) 1558.19

Station (ft) =	9943.0	9951.6	9963.3	9972.5	9982.0	10092.7
Flow (%) =	.3	1.0	1.8	2.6	91.3	
Area (sq ft) =	8.5	19.8	26.2	32.7	570.7	
Vel (ft/s) =	1.25	1.91	2.70	3.08	6.16	
Depth (ft) =	.99	1.69	2.84	3.44	5.16	

Station (ft) =	10092.7	10107.9	10121.7	10122.0
Flow (%) =	1.9	1.2	.0	
Area (sq ft) =	33.3	24.1	.5	
Vel (ft/s) =	2.15	1.85	.51	
Depth (ft) =	2.19	1.74	1.70	

STATUS: Analyzing cross-section reach 10.815.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9969.00
Right Encroachment Station (ft, STENCR)	10105.00
Encroachment Method (TYPE)	1
Width or Percent Target	136.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.815	.085	.055	.090	7.16	1559.76	.00	1559.73
.004801	295	285	300	1560.27	.51	1.53	.00
33.89	12	625	67	.00	1556.50	1556.10	2
3851	29	3655	165	136.0	9969.00	10105.00	0
.10	2.41	5.85	2.46	.000	8.0	1552.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	10.815
Total Discharge (cfs, Q)	3851
Computed Water Surface Elevation (ft MSL, CWSEL)	1559.76

Station (ft) =	9969.0	9969.4	9972.9	10083.6	10091.0	10104.9
Flow (%) =	.0	.7	94.9	1.9	2.4	
Area (sq ft) =	1.2	11.1	625.2	26.7	40.4	
Vel (ft/s) =	.61	2.61	5.85	2.69	2.32	
Depth (ft) =	3.07	3.16	5.65	3.61	2.91	

Station (ft) =	10104.9	10105.0
Flow (%) =		.0
Area (sq ft) =		.2
Vel (ft/s) =		.24
Depth (ft) =		2.25

STATUS: Analyzing cross-section reach 10.876.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .62

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9952.00
Right Encroachment Station (ft, STENCR)	10088.00
Encroachment Method (TYPE)	1
Width or Percent Target	136.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.876	.085	.050	.090	6.89	1561.29	.00	1561.11
.012342	320	320	34	1562.47	1.18	2.00	.20
37.44	24	271	239	.00	1558.10	1558.70	2
3805	74	2709	1021	136.0	9952.00	10088.00	0
.11	2.99	9.98	4.27	.000	8.7	1554.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	10.876
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1561.29

Station (ft) =	9952.0	9967.0	10017.3	10031.2	10041.6	10050.7
Flow (%) =	1.9	71.2	5.0	3.8	4.3	
Area (sq ft) =	24.8	271.6	46.2	35.0	36.3	
Vel (ft/s) =	2.99	9.98	4.08	4.12	4.52	
Depth (ft) =	1.65	5.40	3.33	3.36	3.99	

Station (ft) =	10050.7	10058.3	10071.1	10088.0
Flow (%) =	5.5	4.9	3.4	
Area (sq ft) =	38.8	44.7	38.5	
Vel (ft/s) =	5.40	4.17	3.36	
Depth (ft) =	5.11	3.49	2.28	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 10.945.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.98

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9834.00
Right Encroachment Station (ft, STENCR)	10090.00
Encroachment Method (TYPE)	1
Width or Percent Target	256.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
10.945	.069	.063	.090	7.28	1564.38	.00	1564.37
.003135	365	365	370	1564.59	.22	2.03	.10
44.30	371	564	160	.00	1560.90	1559.80	2
3805	1099	2371	333	256.0	9834.00	10090.00	0
.13	2.96	4.21	2.08	.000	10.3	1557.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	10.945
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1564.38

Station (ft) =	9834.0	9867.5	9883.9	9900.1	9912.3	9917.9
Flow (%) =	3.5	4.0	4.6	5.6	4.3	
Area (sq ft) =	68.5	61.3	65.7	55.9	33.4	
Vel (ft/s) =	1.95	2.51	2.64	3.82	4.93	
Depth (ft) =	2.05	3.74	4.05	4.59	5.96	

Station (ft) =	9917.9	9927.4	9940.3	9959.8	10011.3	10038.9
Flow (%) =	4.3	2.5	4.4	46.2	11.7	
Area (sq ft) =	41.4	45.1	74.8	335.4	153.9	
Vel (ft/s) =	3.99	2.13	2.26	5.24	2.90	
Depth (ft) =	4.35	3.50	3.83	6.51	5.57	

Station (ft) =	10038.9	10052.5	10069.2	10090.0
Flow (%) =	3.7	3.3	1.8	
Area (sq ft) =	58.3	58.1	43.9	
Vel (ft/s) =	2.44	2.13	1.54	
Depth (ft) =	4.28	3.48	2.11	

STATUS: Analyzing cross-section reach 11.006.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .62

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9950.00
Right Encroachment Station (ft, STENCR)	10107.00
Encroachment Method (TYPE)	1
Width or Percent Target	157.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.006	.080	.050	.080	7.34	1565.54	.00	1565.44
.008047	315	325	350	1566.32	.78	1.55	.17
50.81	95	332	207	.00	1562.30	1562.50	2
3805	354	2690	759	157.0	9950.00	10107.00	0
.15	3.70	8.08	3.67	.000	11.9	1558.20	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.006
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1565.54

Station (ft) =	9950.0	9965.8	9979.0	10041.0	10055.2	10066.1
Flow (%) =	5.0	4.4	70.7	4.2	5.7	
Area (sq ft) =	51.5	44.4	333.0	44.7	48.6	
Vel (ft/s) =	3.66	3.74	8.08	3.57	4.50	
Depth (ft) =	3.26	3.37	5.37	3.14	4.46	

Station (ft) =	10066.1	10075.3	10095.8	10107.0
Flow (%) =	4.3	4.1	1.7	
Area (sq ft) =	38.1	50.7	25.1	
Vel (ft/s) =	4.26	3.05	2.54	
Depth (ft) =	4.14	2.47	2.25	

STATUS: Analyzing cross-section reach 11.062.

STATUS: (3280) For cross-section 11.06, ends have been extended vertically .64 feet in order to calculate the hydraulic cross-section properties.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9938.00
Right Encroachment Station (ft, STENCR)	10132.00
Encroachment Method (TYPE)	1
Width or Percent Target	194.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.062	.080	.050	.080	7.64	1567.64	.00	1566.66
.004577	310	295	275	1568.08	.44	1.73	.03
55.85	163	285	430	.00	1563.90	1564.10	2
3805	499	1938	1367	194.0	9938.00	10132.00	0
.16	3.06	6.78	3.18	.000	13.0	1560.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.062
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1567.64

Station (ft) =	9938.0	9954.3	9966.0	9978.7	10023.1	10040.4
Flow (%) =	5.1	3.8	4.3	50.9	4.4	
Area (sq ft) =	66.3	46.0	51.0	285.7	58.9	
Vel (ft/s) =	2.91	3.13	3.17	6.78	2.84	
Depth (ft) =	4.07	3.93	4.01	6.43	3.40	

Station (ft) =	10040.4	10056.7	10068.6	10077.6	10085.6	10092.9
Flow (%) =	4.2	3.4	3.4	4.7	4.0	
Area (sq ft) =	55.8	43.3	39.3	45.3	40.3	
Vel (ft/s) =	2.85	2.97	3.30	3.99	3.80	
Depth (ft) =	3.42	3.64	4.37	5.66	5.51	

Station (ft) =	10092.9	10107.2	10122.3	10132.0
Flow (%) =	4.2	4.8	2.9	
Area (sq ft) =	52.8	58.4	36.7	
Vel (ft/s) =	3.00	3.10	3.00	
Depth (ft) =	3.69	3.87	3.79	

STATUS: Analyzing cross-section reach 11.118.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9894.00
Right Encroachment Station (ft, STENCR)	10069.00
Encroachment Method (TYPE)	1
Width or Percent Target	175.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.118	.080	.050	.080	7.81	1568.91	.00	1567.90
.003812	320	295	270	1569.31	.40	1.23	.00
61.65	289	517	28	.00	1565.90	1565.70	2
3805	834	2901	69	175.0	9894.00	10069.00	0
.18	2.88	5.60	2.47	.000	14.3	1561.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.118
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1568.91

Station (ft) =	9894.0	9905.2	9913.5	9920.3	9930.1	9935.3
Flow (%) =	2.9	3.3	2.7	3.4	1.9	
Area (sq ft) =	46.1	39.1	32.4	42.2	23.2	
Vel (ft/s) =	2.41	3.21	3.23	3.04	3.10	
Depth (ft) =	4.12	4.71	4.76	4.31	4.46	

Station (ft) =	9935.3	9940.7	9948.1	9956.1	9964.4	10060.4
Flow (%) =	2.0	2.2	1.8	1.7	76.2	
Area (sq ft) =	24.6	29.3	26.9	25.8	517.7	
Vel (ft/s) =	3.15	2.86	2.57	2.44	5.60	
Depth (ft) =	4.56	3.96	3.36	3.11	5.39	

Station (ft) =	10060.4	10068.8	10069.0
Flow (%) =	1.8	.0	
Area (sq ft) =	27.4	.7	
Vel (ft/s) =	2.52	.38	
Depth (ft) =	3.26	3.32	

STATUS: Analyzing cross-section reach 11.190.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .69

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9913.00
Right Encroachment Station (ft, STENCR)	10044.00
Encroachment Method (TYPE)	1
Width or Percent Target	131.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.190	.080	.055	.085	7.28	1570.78	.00	1570.12
.007979	420	380	335	1571.49	.71	2.09	.09
68.32	324	302	6	.00	1566.50	1568.80	2
3805	1413	2381	10	131.0	9913.00	10044.00	0
.20	4.36	7.88	1.69	.000	15.7	1563.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.190
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1570.78

Station (ft) =	9913.0	9922.9	9934.1	9948.5	9958.9	9967.9
Flow (%) =	3.5	5.5	5.9	4.5	4.5	
Area (sq ft) =	35.5	48.1	55.4	41.1	39.0	
Vel (ft/s) =	3.79	4.36	4.07	4.15	4.40	
Depth (ft) =	3.58	4.30	3.84	3.96	4.33	

Station (ft) =	9967.9	9974.6	9979.2	9985.8	9989.5	10039.5
Flow (%) =	5.0	3.1	3.3	1.8	62.6	
Area (sq ft) =	36.9	24.1	28.5	15.7	302.4	
Vel (ft/s) =	5.13	4.92	4.39	4.34	7.88	
Depth (ft) =	5.51	5.24	4.32	4.23	6.05	

Station (ft) =	10039.5	10044.0
Flow (%) =	.3	
Area (sq ft) =	6.1	
Vel (ft/s) =	1.69	
Depth (ft) =	1.35	

STATUS: Analyzing cross-section reach 11.259.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9881.00
Right Encroachment Station (ft, STENCR) 10054.00
Encroachment Method (TYPE) 1
Width or Percent Target 173.000

11.259	.085	.055	.085	7.26	1573.36	.00	1573.04
.005767	310	365	395	1573.84	.48	2.33	.02
73.7	[illegible]	361	32	.00	1569.30	1569.20	[illegible]
3805	1391	2341	72	173.0	9881.00	10054.00	0
.21	3.65	6.48	2.20	.000	16.9	1566.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.259
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1573.36

Station (ft) =	9881.0	9910.9	9920.7	9930.2	9937.0	9940.9
Flow (%) =	3.2	3.9	4.6	5.8	3.4	
Area (sq ft) =	57.1	42.6	46.2	46.6	27.1	
Vel (ft/s) =	2.13	3.52	3.77	4.70	4.84	
Depth (ft) =	1.91	4.34	4.87	6.86	6.96	

Station (ft) =	9940.9	9947.1	9960.2	9976.1	10039.5	10054.0
Flow (%) =	4.2	5.5	5.9	61.5	1.9	
Area (sq ft) =	37.2	58.6	65.7	361.1	32.8	
Vel (ft/s) =	4.28	3.60	3.42	6.48	2.20	
Depth (ft) =	6.00	4.47	4.13	5.70	2.26	

STATUS: Analyzing cross-section reach 11.351.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9908.00
Right Encroachment Station (ft, STENCR)	10065.00
Encroachment Method (TYPE)	1
Width or Percent Target	157.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.351	.085	.050	.085	7.60	1575.90	.00	1575.45
.005135	460	485	515	1576.48	.58	2.61	.03
82.11	242	372	127	.00	1572.00	1571.90	3
3805	787	2629	387	157.0	9908.00	10065.00	0
.24	3.25	7.06	3.04	.000	18.7	1568.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.351
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1575.90

Station (ft) =	9908.0	9929.1	9938.0	9950.5	9956.6	9966.4
Flow (%) =	3.6	3.6	4.9	3.2	4.4	
Area (sq ft) =	55.4	40.0	55.1	32.3	47.2	
Vel (ft/s) =	2.49	3.40	3.37	3.77	3.55	
Depth (ft) =	2.63	4.50	4.41	5.30	4.82	

Station (ft) =	9966.4	9969.6	10030.3	10043.1	10055.8	10065.0
Flow (%) =	1.0	69.1	4.6	4.3	1.3	
Area (sq ft) =	12.5	372.7	53.6	51.6	22.2	
Vel (ft/s) =	3.10	7.06	3.26	3.18	2.20	
Depth (ft) =	3.90	6.14	4.19	4.06	2.42	

STATUS: Analyzing cross-section reach 11.426.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9908.00
Right Encroachment Station (ft, STENCR)	10136.00
Encroachment Method (TYPE)	1
Width or Percent Target	228.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.426	.080	.050	.080	7.19	1577.89	.00	1577.21
.004026	440	395	370	1578.31	.43	1.82	.02
89.75	256	375	279	.00	1573.60	1573.90	2
3805	787	2359	658	228.0	9908.00	10136.00	0
.26	3.07	6.28	2.35	.000	20.4	1570.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.426
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1577.89

Station (ft) =	9908.0	9923.3	9939.1	9953.7	9963.9	9969.6
Flow (%) =	4.1	4.3	6.1	4.1	2.0	
Area (sq ft) =	56.8	58.2	69.4	47.8	24.7	
Vel (ft/s) =	2.78	2.81	3.33	3.30	3.13	
Depth (ft) =	3.71	3.68	4.76	4.68	4.34	

Station (ft) =	9969.6	10030.9	10046.0	10059.9	10080.9	10103.3
Flow (%) =	62.0	3.8	3.1	3.1	3.9	
Area (sq ft) =	375.6	53.4	45.0	53.0	63.0	
Vel (ft/s) =	6.28	2.74	2.58	2.20	2.36	
Depth (ft) =	6.13	3.53	3.24	2.53	2.81	

Station (ft) =	10103.3	10128.1	10136.0
Flow (%) =	3.2	.2	
Area (sq ft) =	56.9	8.2	
Vel (ft/s) =	2.13	1.13	
Depth (ft) =	2.30	1.04	

STATUS: Analyzing cross-section reach 11.515.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9847.00
Right Encroachment Station (ft, STENCR)	10030.00
Encroachment Method (TYPE)	1
Width or Percent Target	183.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.515	.085	.050	.085	6.41	1580.01	.00	1579.05
.005362	500	470	460	1580.54	.53	2.20	.03
98.99	309	423	37	.00	1576.40	1575.90	2
3805	921	2792	90	183.0	9847.00	10030.00	0
.28	2.98	6.59	2.41	.000	22.7	1573.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.515
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1580.01

Station (ft) =	9847.0	9863.8	9875.2	9891.8	9911.7	9929.8
Flow (%) =	4.2	4.9	3.9	4.2	5.3	
Area (sq ft) =	56.4	52.7	53.5	60.3	66.1	
Vel (ft/s) =	2.82	3.54	2.80	2.68	3.04	
Depth (ft) =	3.36	4.62	3.22	3.03	3.65	

Station (ft) =	9929.8	9935.2	10015.1	10030.0
Flow (%) =	1.7	73.4	2.4	
Area (sq ft) =	20.6	423.8	37.6	
Vel (ft/s) =	3.12	6.59	2.41	
Depth (ft) =	3.81	5.30	2.52	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 11.554.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9886.00
Right Encroachment Station (ft, STENCR)	10042.00
Encroachment Method (TYPE)	1
Width or Percent Target	156.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.554	.064	.055	.080	5.88	1581.28	.00	1581.19
.009601	175	205	225	1581.94	.66	1.36	.04
102.03	364	194	51	.00	1577.50	1578.80	2
3805	2217	1434	152	156.0	9886.00	10042.00	0
.29	6.08	7.37	2.96	.000	23.4	1575.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.554
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1581.28

Station (ft) =	9886.0	9897.0	9902.3	9907.4	9916.3	9927.2
Flow (%) =	5.1	4.1	3.8	4.9	3.5	
Area (sq ft) =	40.6	26.1	24.6	35.9	31.6	
Vel (ft/s) =	4.77	6.03	5.94	5.23	4.23	
Depth (ft) =	3.69	4.93	4.83	4.03	2.90	

Station (ft) =	9927.2	9937.6	9946.2	9953.8	9961.2	9967.7
Flow (%) =	5.2	7.2	7.8	7.8	6.0	
Area (sq ft) =	35.9	40.3	40.1	39.8	32.4	
Vel (ft/s) =	5.54	6.76	7.36	7.45	7.04	
Depth (ft) =	3.46	4.68	5.28	5.38	4.98	

Station (ft) =	9967.7	9971.8	10013.0	10035.9	10042.0
Flow (%) =	2.8	37.7	3.9	.1	
Area (sq ft) =	17.1	194.7	48.3	3.3	
Vel (ft/s) =	6.22	7.37	3.09	1.16	
Depth (ft) =	4.18	4.72	2.11	.54	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 11.626.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9921.00
Right Encroachment Station (ft, STENCR)	10061.00
Encroachment Method (TYPE)	1
Width or Percent Target	140.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.626	.060	.050	.080	7.17	1583.97	.00	1583.31
.005426	375	380	395	1584.62	.65	2.68	.00
107.56	158	390	107	.00	1581.40	1580.70	2
3805	684	2798	322	140.0	9921.00	10061.00	0
.31	4.31	7.16	3.00	.000	24.7	1576.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.626
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1583.97

Station (ft) =	9921.0	9932.1	9939.8	9959.4	9963.8	10028.1
Flow (%) =	3.2	5.1	8.7	1.0	73.5	
Area (sq ft) =	35.5	37.8	74.1	11.3	391.0	
Vel (ft/s) =	3.44	5.14	4.44	3.42	7.16	
Depth (ft) =	3.20	4.91	3.78	2.57	6.08	

Station (ft) =	10028.1	10044.9	10060.9	10061.0
Flow (%) =	4.6	3.8	.0	
Area (sq ft) =	56.9	50.1	.3	
Vel (ft/s) =	3.08	2.93	.29	
Depth (ft) =	3.39	3.13	2.98	

Contraction Coefficient (CCHV) .100

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 11.688.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9920.00
Right Encroachment Station (ft, STENCR)	10064.00
Encroachment Method (TYPE)	1
Width or Percent Target	144.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.688	.080	.060	.085	7.41	1586.11	.00	1585.56
.007508	360	330	315	1586.74	.63	2.11	.00
112.60	132	481	42	.00	1582.80	1582.90	2
3805	428	3258	117	144.0	9920.00	10064.00	0
.32	3.25	6.77	2.80	.000	25.8	1578.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.688
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1586.11

Station (ft) =	9920.0	9928.6	9936.6	9943.9	9951.5	9963.5
Flow (%) =	2.1	2.1	1.6	2.0	3.6	
Area (sq ft) =	27.4	23.6	19.4	22.5	39.1	
Vel (ft/s) =	2.84	3.31	3.09	3.31	3.54	
Depth (ft) =	3.19	2.96	2.66	2.96	3.26	

Station (ft) =	9963.5	10048.1	10058.4	10064.0
Flow (%) =	85.6	2.4	.7	
Area (sq ft) =	481.3	29.9	12.2	
Vel (ft/s) =	6.77	3.08	2.11	
Depth (ft) =	5.69	2.91	2.17	

Contraction Coefficient (CCHV) .600

Expansion Coefficient (CEHV) .800

STATUS: Analyzing cross-section reach 11.722.

STATUS: (3280) For cross-section 11.72, ends have been extended vertically .31 feet in order to calculate the hydraulic cross-section properties.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.51

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9894.00
Right Encroachment Station (ft, STENCR)	10085.00
Encroachment Method (TYPE)	1
Width or Percent Target	191.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.722	.085	.050	.085	8.71	1587.21	.00	1586.54
.001195	160	180	200	1587.43	.22	.44	.25
116.31	111	887	145	.00	1582.50	1582.20	2
3805	142	3448	214	191.0	9894.00	10085.00	0
.34	1.27	3.88	1.47	.000	26.5	1578.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.722
Total Discharge (cfs, Q)	3805
Computed Water Surface Elevation (ft MSL, CWSEL)	1587.21

Station (ft) =	9894.0	9919.0	9930.0	10050.0	10085.0
Flow (%) =	2.0	1.8	90.6	5.6	
Area (sq ft) =	67.8	44.1	887.9	145.6	
Vel (ft/s) =	1.11	1.52	3.88	1.47	
Depth (ft) =	2.71	4.01	7.40	4.16	

STATUS: Special culvert analysis being performed.

CULVERT DESCRIPTION :

Number of Identical Culverts (CUNO)	8
Culvert Mannings n (CUNV)	.032
Culvert Entrance Loss Coefficient (ENTLC)	.800
Pipe Culvert Diameter (ft, RISE)	5.66
Culvert Length (ft, CULVLN)	60.00
Culvert Opening Upstream Invert (ft MSL, ELCHU)	1578.60
Culvert Opening Downstream Invert (ft MSL, ELCHD)	1578.40
Roadway Length (ft, RDLEN)	.00
Roadway Weir Flow Discharge Coefficient (COFQ)	3.00

Chart # 2 - corrugated metal pipe culvert

Scale # 3 - pipe projecting from fill

WARNING: (5130) Inlet control energy grade line elevation 1601.41 ft MSL may be too large if inlet controls.

WARNING: (5135) Outlet control energy grade line elevation 1603.46 ft MSL may be too large if outlet controls.

STATUS: Analyzing cross-section reach 11.734.

BRIDGE ENCROACHMENT DESCRIPTION :

Left Encroachment Station (ft, STENCL)	9885.00
Right Encroachment Station (ft, STENCR)	10095.00

STATUS: Special culvert outlet control and weir flow.

Energy Gradient Elevation (ft MSL, EG) 1588.72

STATUS: (3280) For cross-section 11.73, ends have been extended vertically .39 feet in order to calculate the hydraulic cross-section properties.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO)	1.41

CULVERT ANALYSIS RESULTS :

Inlet Control Energy Grade Line Elevation (ft MSL, EGIC)	1601.41
Outlet Control Energy Grade Line Elevation (ft MSL, EGOC)	1603.46
Water Surface Drop Through Culvert (ft, H4)	1.29
Total Weir Flow (cfs, QWEIR)	2678.
Total Culvert Flow (cfs, QCULV)	1159.
Mean Channel Velocity (fps, VCH)	2.96
Culvert Opening Area (sq ft, ACULV)	201.3
Top of Roadway Elevation (ft MSL, ELTRD)	1584.90
Roadway Weir Length (ft, WEIRLN)	210.0

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9885.00
Right Encroachment Station (ft, STENCR)	10095.00
Encroachment Method (TYPE)	1
Width or Percent Target	210.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.734	.085	.050	.085	9.59	1588.59	.00	1587.61
.000598	60	60	60	1588.72	.13	1.29	.00
118.08	124	1227	63	.00	1582.80	1584.90	2
3805	109	3633	61	210.0	9885.00	10095.00	0
.34	.89	2.96	.97	.000	26.8	1579.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.734
Total Discharge (cfs, Q) 3805
Computed Water Surface Elevation (ft MSL, CWSEL) 1588.59

Station (ft) =	9885.0	9909.5	9928.3	10077.0	10094.5	10095.0
Flow (%) =	.9	2.0	95.5	1.6	.0	
Area (sq ft) =	51.0	73.1	1227.1	61.9	1.7	
Vel (ft/s) =	.66	1.04	2.96	.99	.25	
Depth (ft) =	2.08	3.89	8.25	3.54	3.38	

STATUS: Analyzing cross-section reach 11.811.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9843.00
Right Encroachment Station (ft, STENCR) 10023.00
Encroachment Method (TYPE) 1
Width or Percent Target 180.000

STATUS: (3495) Overbank area assumed noneffective.

Left Overbank Elevation (ft, XLBEL) 1587.00
Right Overbank Elevation (ft, RBEL) 1589.40

11.811	.080	.050	.000	6.43	1589.33	1589.33	1589.32
	480	410	365	1590.74	1.41		3
127.21	180	299	0	.00	1587.00	1589.40	2
3756	649	3106	0	179.7	9843.00	10022.72	23
.36	3.60	10.36	.00	.000	28.7	1582.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	11.811
Total Discharge (cfs, Q)	3756
Computed Water Surface Elevation (ft MSL, CWSEL)	1589.33

Station (ft) =	9843.0	9853.0	9881.8	9898.6	9921.3	9927.9
Flow (%) =	.8	6.0	2.4	1.7	.8	
Area (sq ft) =	10.5	57.0	26.5	24.5	9.8	
Vel (ft/s) =	2.77	3.94	3.39	2.63	3.21	
Depth (ft) =	1.05	1.98	1.58	1.08	1.48	

Station (ft) =	9927.9	9934.6	9943.9	9953.6	10022.8
Flow (%) =	1.5	1.9	2.3	82.7	
Area (sq ft) =	13.6	17.9	20.7	299.7	
Vel (ft/s) =	4.01	3.88	4.14	10.36	
Depth (ft) =	2.03	1.93	2.13	4.34	

Contraction Coefficient (CCHV)	.100
Expansion Coefficient (CEHV)	.300

STATUS: Analyzing cross-section reach 11.876.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO)	1.83

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9957.00
Right Encroachment Station (ft, STENCR)	10140.00
Encroachment Method (TYPE)	1
Width or Percent Target	183.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
11.876	.080	.050	.080	8.83	1593.43	.00	1593.15
.005405	295	340	390	1593.94	.50	3.10	.09
132.14	40	389	333	.00	1590.00	1592.10	3
3756	91	2547	1117	183.0	9957.00	10140.00	0
.37	2.27	6.54	3.35	.000	30.1	1584.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.876
Total Discharge (cfs, Q) 3756
Computed Water Surface Elevation (ft MSL, CWSEL) 1593.43

Station (ft) =	9957.0	9978.9	10051.6	10080.4	10091.4	10099.6
Flow (%) =	2.4	67.8	6.1	5.3	3.7	
Area (sq ft) =	40.2	389.4	79.2	52.1	37.2	
Vel (ft/s) =	2.27	6.54	2.89	3.85	3.73	
Depth (ft) =	1.84	5.36	2.75	4.74	4.54	

Station (ft) =	10099.6	10111.2	10119.7	10131.5	10140.0
Flow (%) =	4.4	3.2	4.5	2.5	
Area (sq ft) =	47.4	34.8	48.3	34.6	
Vel (ft/s) =	3.49	3.49	3.49	2.69	
Depth (ft) =	4.09	4.09	4.09	4.07	

STATUS: Analyzing cross-section reach 11.960.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9925.00
Right Encroachment Station (ft, STENCR) 10159.00
Encroachment Method (TYPE) 1
Width or Percent Target 234.000

11.960	.080	.055	.085	7.47	1595.67	.00	1595.10
.004269	455	445	430	1596.06	.39	2.12	.01
140.49	70	549	268	.00	1592.90	1593.20	4
3756	135	3023	596	234.0	9925.00	10159.00	0
.40	1.91	5.50	2.22	.000	32.2	1588.20	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 11.960
Total Discharge (cfs, Q) 3756
Computed Water Surface Elevation (ft MSL, CWSEL) 1595.67

Station (ft) =	9925.0	9962.6	10061.5	10083.9	10105.8	10123.2
Flow (%) =	3.6	80.5	3.0	3.2	3.7	
Area (sq ft) =	70.7	549.8	54.9	56.6	55.7	
Vel (ft/s) =	1.91	5.50	2.08	2.15	2.48	
Depth (ft) =	1.88	5.56	2.45	2.58	3.20	

Station (ft) =	10123.2	10144.6	10159.0
Flow (%) =	3.7	2.2	
Area (sq ft) =	61.1	40.6	
Vel (ft/s) =	2.30	2.04	
Depth (ft) =	2.85	2.82	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 12.041.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .62

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9926.00
Right Encroachment Station (ft, STENCR)	10058.00
Encroachment Method (TYPE)	1
Width or Percent Target	132.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.041	.080	.050	.085	6.25	1597.95	.00	1597.62
.011261	490	430	390	1599.11	1.17	2.82	.23
147.26	99	380	4	.00	1596.00	1596.20	2
3756	320	3427	8	132.0	9926.00	10058.00	0
.41	3.22	9.02	1.75	.000	34.1	1591.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.041
Total Discharge (cfs, Q) 3756
Computed Water Surface Elevation (ft MSL, CWSEL) 1597.95

Station (ft) =	9926.0	9952.1	9965.9	9976.3	10053.2	10058.0
Flow (%) =	3.0	3.7	1.8	91.2	.2	
Area (sq ft) =	41.4	36.9	21.0	380.2	4.8	
Vel (ft/s) =	2.75	3.79	3.15	9.02	1.75	
Depth (ft) =	1.59	2.67	2.02	4.94	1.01	

STATUS: Analyzing cross-section reach 12.128.

STATUS: (3280) For cross-section 12.13, ends have been extended vertically .73 feet in order to calculate the hydraulic cross-section properties.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.60

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9923.00
Right Encroachment Station (ft, STENCR) 10063.00
Encroachment Method (TYPE) 1
Width or Percent Target 140.000

12.128	.070	.060	.080	8.22	1601.82	.00	1600.93
.004372	445	460	475	1602.24	.41	3.05	.08
153.77	54	662	36	.00	1597.80	1599.20	1
3756	181	[illegible]	81	140.0	9923.00	10063.00	0
.44	3.35	5.27	2.25	.000	35.5	1593.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	12.128
Total Discharge (cfs, Q)	3756
Computed Water Surface Elevation (ft MSL, CWSEL)	1601.82

Station (ft) =	9923.0	9923.3	9931.6	9937.4	10049.9	10057.1
Flow (%) =	.0	2.7	2.2	93.0	1.4	
Area (sq ft) =	1.0	30.1	23.1	662.7	21.1	
Vel (ft/s) =	.59	3.31	3.52	5.27	2.51	
Depth (ft) =	3.32	3.63	3.98	5.89	2.93	

Station (ft) =	10057.1	10063.0
Flow (%) =	.8	
Area (sq ft) =	15.2	
Vel (ft/s) =	1.89	
Depth (ft) =	2.57	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 12.174.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9977.00
Right Encroachment Station (ft, STENCR)	10197.00
Encroachment Method (TYPE)	1
Width or Percent Target	220.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.174	.055	.055	.066	6.10	1603.00	.00	1602.60
.004522	250	240	245	1603.32	.32	1.07	.01
158.32	8	310	563	.00	1599.40	1600.00	2
3756	20	1678	2057	220.0	9977.00	10197.00	0
.45	2.34	5.41	3.65	.000	36.5	1596.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.174
Total Discharge (cfs, Q) 3756
Computed Water Surface Elevation (ft MSL, CWSEL) 1603.00

Station (ft) =	9977.0	9981.6	10041.1	10054.8	10066.8	10082.7
Flow (%) =	.5	44.7	3.1	3.9	6.4	
Area (sq ft) =	8.7	310.0	43.1	46.9	71.3	
Vel (ft/s) =	2.34	5.41	2.68	3.10	3.39	
Depth (ft) =	1.88	5.21	3.15	3.91	4.48	

Station (ft) =	10082.7	10102.1	10121.1	10139.9	10154.0	10181.2
Flow (%) =	4.7	3.4	3.2	5.6	18.6	
Area (sq ft) =	63.9	51.9	49.9	49.8	133.2	
Vel (ft/s) =	2.76	2.45	2.40	4.23	5.24	
Depth (ft) =	3.29	2.73	2.65	3.53	4.90	

Station (ft) =	10181.2	10189.4	10197.0
Flow (%) =	4.0	1.9	
Area (sq ft) =	33.2	20.4	
Vel (ft/s) =	4.58	3.45	
Depth (ft) =	4.05	2.69	

STATUS: Analyzing cross-section reach 12.249.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9892.00
Right Encroachment Station (ft, STENCR) 10068.00
Encroachment Method (TYPE) 1
Width or Percent Target 176.000

12.249	.085	.055	.085	5.28	1605.18	.00	1604.77
.008895	405	395	395	1605.87	.68	2.44	.11
165.19	79	470	[illegible]	00	1603.30	1601.90	2
3756	205	3292	258	176.0	9892.00	10068.00	0
.47	2.59	6.99	3.18	.000	38.3	1599.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	12.249
Total Discharge (cfs, Q)	3756
Computed Water Surface Elevation (ft MSL, CWSEL)	1605.18

Station (ft) =	9892.0	9898.4	9904.6	9914.1	9922.7	9931.4
Flow (%) =	.6	.9	1.5	1.3	1.1	
Area (sq ft) =	11.2	12.6	20.7	17.9	16.8	
Vel (ft/s) =	2.06	2.64	2.77	2.69	2.56	
Depth (ft) =	1.74	2.03	2.18	2.08	1.93	

Station (ft) =	9931.4	10034.5	10041.9	10048.1	10053.4	10065.0
Flow (%) =	87.7	2.4	1.8	1.3	1.3	
Area (sq ft) =	470.7	24.3	19.4	15.0	20.7	
Vel (ft/s) =	6.99	3.64	3.53	3.30	2.41	
Depth (ft) =	4.57	3.28	3.13	2.83	1.78	

Station (ft) =	10065.0	10068.0
Flow (%) =	.1	
Area (sq ft) =	2.0	
Vel (ft/s) =	1.15	
Depth (ft) =	.68	

STATUS: Analyzing cross-section reach 12.325.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9902.00
Right Encroachment Station (ft, STENCR)	10064.00
Encroachment Method (TYPE)	1
Width or Percent Target	162.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.325	.085	.060	.085	7.41	1608.51	.00	1608.26
.006779	400	405	415	1609.02	.51	3.13	.02
171.52	129	454	142	.00	1605.20	1605.00	1
3756	457	2850	448	162.0	9902.00	10064.00	0
.49	3.53	6.27	3.16	.000	39.9	1601.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.325
Total Discharge (cfs, Q) 3756
Computed Water Surface Elevation (ft MSL, CWSEL) 1608.51

Station (ft) =	9902.0	9914.3	9926.2	9935.7	10019.2	10032.1
Flow (%) =	3.9	5.4	2.9	75.9	4.0	
Area (sq ft) =	43.8	52.3	33.3	454.6	45.2	
Vel (ft/s) =	3.31	3.85	3.32	6.27	3.32	
Depth (ft) =	3.56	4.39	3.50	5.44	3.50	

Station (ft) =	10032.1	10044.4	10059.1	10064.0
Flow (%) =	4.1	3.4	.4	
Area (sq ft) =	45.3	43.1	8.4	
Vel (ft/s) =	3.43	2.98	1.70	
Depth (ft) =	3.69	2.93	1.70	

STATUS: Analyzing cross-section reach 12.395.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9898.00
Right Encroachment Station (ft, STENCR) 10091.00
Encroachment Method (TYPE) 1
Width or Percent Target 193.000

12.395	.080	.055	.095	6.72	1610.62	.00	1609.98
.005869	315	370	40	1611.10	.48	2.08	.00
176.68	124	517	123	.00	1608.60	1607.30	2
3756	322	3104	328	193.0	9898.00	10091.00	0
.51	2.60	6.00	2.65	.000	41.0	1603.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.395
Total Discharge (cfs, Q) 3756
Computed Water Surface Elevation (ft MSL, CWSEL) 1610.62

Station (ft) =	9898.0	9898.3	9910.0	9915.3	9927.1	9938.2
Flow (%) =	.0	2.9	1.3	1.7	1.3	
Area (sq ft) =	.8	36.5	16.2	26.7	21.8	
Vel (ft/s) =	.59	3.03	2.96	2.45	2.23	
Depth (ft) =	2.61	3.12	3.07	2.27	1.97	

Station (ft) =	9938.2	9949.5	10053.6	10065.2	10074.0	10085.6
Flow (%) =	1.3	82.7	2.7	2.1	2.7	
Area (sq ft) =	22.2	517.3	38.5	29.2	38.5	
Vel (ft/s) =	2.23	6.00	2.66	2.66	2.66	
Depth (ft) =	1.97	4.97	3.32	3.32	3.32	

Station (ft) =	10085.6	10090.9	10091.0
Flow (%) =	1.2	.0	
Area (sq ft) =	17.3	.3	
Vel (ft/s) =	2.64	.25	
Depth (ft) =	3.27	3.22	

Contraction Coefficient (CCHV) .100

Expansion Coefficient (CEHV) .300

STATUS: Analyzing cross-section reach 12.484.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .68

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9898.00
Right Encroachment Station (ft, STENCR)	10062.00
Encroachment Method (TYPE)	1
Width or Percent Target	164.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.484	.080	.050	.080	6.86	1613.96	.00	1613.72
.012318	460	465	485	1615.12	1.16	3.82	.20
183.27	51	414	0	.00	1613.00	1613.30	2
3706	89	3615	0	164.0	9898.00	10062.00	0
.52	1.75	8.73	1.01	.000	42.9	1607.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.484
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1613.96

Station (ft) =	9898.0	9902.6	9912.3	9925.3	9939.2	9955.5
Flow (%) =	.1	.2	.3	.4	.8	
Area (sq ft) =	2.1	5.0	8.0	9.9	14.9	
Vel (ft/s) =	1.16	1.32	1.49	1.65	1.94	
Depth (ft) =	.46	.51	.61	.71	.91	

Station (ft) =	9955.5	9966.6	10061.3	10062.0
Flow (%) =	.6	97.6	.0	
Area (sq ft) =	11.2	414.1	.5	
Vel (ft/s) =	2.08	8.73	1.01	
Depth (ft) =	1.01	4.37	.67	

STATUS: Analyzing cross-section reach 12.568.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9930.00
Right Encroachment Station (ft, STENCR) 10061.00
Encroachment Method (TYPE) 1
Width or Percent Target 131.000

12.568	.080	.060	.080	7.83	1618.73	.00	1618.44
.007234	495	445	405	1619.34	.61	4.17	.05
188.99	158	434	40	.00	1615.10	1616.00	3
3706	657	2941	107	131.0	9930.00	10061.00	0
.54	4.15	6.76	2.63	.000	44.5	1610.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	12.568
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1618.73

Station (ft) =	9930.0	9933.3	9942.5	9951.2	9954.4	9957.8
Flow (%) =	.2	2.3	5.1	2.4	2.4	
Area (sq ft) =	4.9	26.9	42.0	17.8	18.3	
Vel (ft/s) =	1.67	3.17	4.46	4.97	4.84	
Depth (ft) =	1.50	2.93	4.83	5.58	5.38	

Station (ft) =	9957.8	9961.8	9966.2	9969.2	10043.5	10050.9
Flow (%) =	2.3	1.9	1.1	79.4	1.5	
Area (sq ft) =	19.3	17.9	11.0	435.0	19.1	
Vel (ft/s) =	4.45	4.00	3.76	6.76	2.97	
Depth (ft) =	4.83	4.08	3.68	5.85	2.58	

Station (ft) =	10050.9	10061.0
Flow (%) =	1.4	
Area (sq ft) =	21.5	
Vel (ft/s) =	2.34	
Depth (ft) =	2.13	

STATUS: Analyzing cross-section reach 12.650.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9928.00
Right Encroachment Station (ft, STENCR)	10066.00
Encroachment Method (TYPE)	1
Width or Percent Target	138.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
---	---	---	---	---	---	---	---
12.650	.080	.060	.080	8.03	1621.93	.00	1621.60
.007782	415	435	460	1622.62	.69	3.25	.02
195.16	67	484	54	.00	1618.90	1619.30	3
3706	185	3363	156	138.0	9928.00	10066.00	0
.56	2.77	6.94	2.89	.000	45.8	1613.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.650
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1621.93

Station (ft) =	9928.0	9928.5	9941.1	9952.0	9958.7	10042.9
Flow (%) =	.0	1.6	1.8	1.6	90.8	
Area (sq ft) =	.9	23.7	24.3	18.3	484.5	
Vel (ft/s) =	.87	2.49	2.79	3.19	6.94	
Depth (ft) =	1.73	1.88	2.23	2.73	5.75	

Station (ft) =	10042.9	10052.3	10058.0	10065.5	10066.0
Flow (%) =	2.1	1.1	1.0	.0	
Area (sq ft) =	24.7	13.8	14.8	.9	
Vel (ft/s) =	3.12	2.95	2.58	.87	
Depth (ft) =	2.63	2.43	1.98	1.72	

STATUS: Analyzing cross-section reach 12.734.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9912.00
Right Encroachment Station (ft, STENCR) 10081.00
Encroachment Method (TYPE) 1
Width or Percent Target 169.000

12.734	.080	.040	.080	8.56	1624.86	1624.51	1624.43
.007889	450	445	390	1626.32	1.46	3.47	.23
200.63	69	334	76	.00	1623.20	1623.20	4
3706	150	3388	167	167.7	9913.32	10081.00	8
.57	2.16	10.13	2.20	.000	47.3	1616.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	12.734
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1624.86

Station (ft) =	9913.3	9922.4	9937.4	9951.9	9962.2	9972.3
Flow (%) =	.0	.3	1.1	1.4	1.2	
Area (sq ft) =	1.6	9.1	20.4	20.1	18.2	
Vel (ft/s) =	.52	1.18	2.07	2.58	2.45	
Depth (ft) =	.18	.61	1.41	1.96	1.81	

Station (ft) =	9972.3	10031.9	10042.2	10056.0	10063.5	10070.3
Flow (%) =	91.4	1.1	1.4	.7	.6	
Area (sq ft) =	334.6	17.1	22.2	11.3	9.9	
Vel (ft/s) =	10.13	2.31	2.26	2.17	2.12	
Depth (ft) =	5.61	1.66	1.61	1.51	1.46	

Station (ft) =	10070.3	10080.5	10081.0
Flow (%) =	.8	.0	
Area (sq ft) =	14.9	.7	
Vel (ft/s) =	2.12	.85	
Depth (ft) =	1.46	1.48	

STATUS: Analyzing cross-section reach 12.822.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9942.00
Right Encroachment Station (ft, STENCR)	10062.00
Encroachment Method (TYPE)	1
Width or Percent Target	120.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.822	.080	.050	.080	8.72	1629.02	.00	1628.50
.008514	450	460	485	1630.13	1.11	3.77	.04
205.82	80	381	38	.00	1626.80	1627.10	2
3706	245	3362	98	120.0	9942.00	10062.00	0
.59	3.05	8.82	2.53	.000	48.9	1620.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.822
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1629.02

Station (ft) =	9942.0	9950.9	9958.9	9967.8	9976.5	10040.7
Flow (%) =	.8	1.9	2.4	1.6	90.7	
Area (sq ft) =	14.0	21.3	25.5	19.7	381.2	
Vel (ft/s) =	2.12	3.26	3.44	2.96	8.82	
Depth (ft) =	1.57	2.67	2.87	2.27	5.94	

Station (ft) =	10040.7	10052.3	10061.7	10062.0
Flow (%) =	1.5	1.1	.0	
Area (sq ft) =	21.7	16.6	.5	
Vel (ft/s) =	2.60	2.51	.69	
Depth (ft) =	1.87	1.77	1.72	

STATUS: Analyzing cross-section reach 12.909.

STATUS: (3280) For cross-section 12.91, ends have been extended vertically .17 feet in order to calculate the hydraulic cross-section properties.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.62

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9920.00
Right Encroachment Station (ft, STENCR) 10057.00
Encroachment Method (TYPE) 1
Width or Percent Target 137.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
12.909	.080	.050	.080	7.27	1632.07	.00	1631.39
.003248	475	460	465	1632.48	.41	2.29	.07
212.30	2	719	1	.00	1630.80	1630.30	3
3706	1	3702	1	137.0	9920.00	10057.00	0
.61	.84	5.14	.82	.000	50.2	1624.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 12.909
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1632.07

Station (ft) =	9920.0	9921.6	10055.9	10057.0
Flow (%) =	.0	99.9	.0	
Area (sq ft) =	2.0	719.7	1.9	
Vel (ft/s) =	.84	5.14	.82	
Depth (ft) =	1.27	5.36	1.76	

STATUS: Analyzing cross-section reach 13.000.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .45

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9928.00
Right Encroachment Station (ft, STENCR) 10054.00
Encroachment Method (TYPE) 1
Width or Percent Target 126.000

13.000	.080	.050	.080	4.72	1634.52	.00	1634.60
.016195	510	480	470	1635.68	1.16	2.98	.22
218.66	0	428	2	.00	1634.00	1633.30	2
3706	0	3701	3	126.0	9928.00	10054.00	0
.63	1.24	8.64	1.86	.000	51.7	1629.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	13.000
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1634.52

Station (ft) =	9928.0	9929.2	10052.4	10054.0
Flow (%) =	.0	99.9	.1	
Area (sq ft) =	.7	428.2	2.0	
Vel (ft/s) =	1.24	8.64	1.86	
Depth (ft) =	.60	3.48	1.25	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 13.079.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO)	1.83

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9888.00
Right Encroachment Station (ft, STENCR)	10109.00
Encroachment Method (TYPE)	1
Width or Percent Target	221.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.079	.080	.050	.053	5.47	1638.77	.00	1638.57
.004812	430	420	425	1639.15	.38	3.39	.08
224.39	1	544	208	.00	1637.00	1637.20	2
3706	1	2808	895	221.0	9888.00	10109.00	0
.65	.99	5.16	4.30	.000	53.4	1633.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.079
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1638.77

Station (ft) =	9888.0	9889.1	10025.9	10064.6	10072.0	10078.0
Flow (%) =	.1	75.8	5.0	4.8	5.6	
Area (sq ft) =	1.9	544.7	70.9	32.7	32.5	
Vel (ft/s) =	.99	5.16	2.63	5.44	6.36	
Depth (ft) =	1.77	3.98	1.83	4.42	5.42	

Station (ft) =	10078.0	10083.8	10097.7	10109.0
Flow (%) =	5.3	3.3	.2	
Area (sq ft) =	31.2	34.4	6.7	
Vel (ft/s) =	6.32	3.53	.93	
Depth (ft) =	5.37	2.47	.59	

STATUS: Analyzing cross-section reach 13.141.

STATUS: (3265) Divided flow.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .62

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9932.00
Right Encroachment Station (ft, STENCR) 10430.00
Encroachment Method (TYPE) 1
Width or Percent Target 498.000

13.141	.080	.060	.080	5.04	1641.24	.00	1641.23
.012499	300	325	390	1641.67	.42	2.50	.01
230.77	55	407		.00	1639.50	1640.60	3
3706	159	2475	1071	494.8	9932.00	10430.00	0
.67	2.84	6.08	2.82	.000	56.3	1636.20	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	13.141
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1641.24

Station (ft) =	9932.0	9961.7	9968.7	10093.3	10238.0	10287.4
Flow (%) =	3.3	1.0	66.8	3.1	4.2	
Area (sq ft) =	43.7	12.2	407.1	77.1	56.3	
Vel (ft/s) =	2.80	3.01	6.08	1.49	2.74	
Depth (ft) =	1.47	1.74	3.27	.53	1.14	

Station (ft) =	10287.4	10320.4	10348.2	10367.3	10391.3	10401.3
Flow (%) =	3.0	3.4	3.8	3.2	4.1	
Area (sq ft) =	43.7	43.5	40.6	40.2	32.9	
Vel (ft/s) =	2.57	2.86	3.44	2.93	4.59	
Depth (ft) =	1.32	1.57	2.12	1.67	3.29	

Station (ft) =	10401.3	10417.4	10430.0
Flow (%) =	4.0	.3	
Area (sq ft) =	38.4	6.8	
Vel (ft/s) =	3.87	1.37	
Depth (ft) =	2.38	.54	

STATUS: Analyzing cross-section reach 13.223.

STATUS: (3265) Divided flow.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.43

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9979.00
Right Encroachment Station (ft, STENCR)	10680.00
Encroachment Method (TYPE)	1
Width or Percent Target	701.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.223	.080	.060	.080	5.43	1645.13	.00	1644.91
.006083	450	435	425	1645.33	.20	3.64	.02
240.95	0	399	820	.00	1644.90	1644.80	2
3706	0	1829	1876	670.2	9979.00	10680.00	0
.71	.48	4.58	2.29	.000	62.1	1639.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.223
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1645.13

Station (ft) =	9979.0	9980.5	10086.8	10125.1	10143.1	10162.0
Flow (%) =	.0	49.4	5.4	3.9	3.6	
Area (sq ft) =	.3	399.5	81.0	50.2	48.6	
Vel (ft/s) =	.48	4.58	2.45	2.87	2.74	
Depth (ft) =	.22	3.76	2.12	2.79	2.57	

Station (ft) =	10162.0	10244.5	10264.3	10293.6	10313.6	10382.6
Flow (%) =	3.4	3.2	3.9	5.2	3.3	
Area (sq ft) =	69.5	46.7	60.9	62.1	73.4	
Vel (ft/s) =	1.80	2.57	2.36	3.10	1.65	
Depth (ft) =	.84	2.36	2.08	3.11	1.06	

Station (ft) =	10382.6	10429.7	10586.0	10641.0	10653.0	10677.8
Flow (%) =	3.1	3.2	4.9	4.2	3.3	
Area (sq ft) =	63.6	78.1	86.7	45.3	50.9	
Vel (ft/s) =	1.80	1.53	2.09	3.48	2.37	
Depth (ft) =	1.35	.50	1.58	3.77	2.05	

Station (ft) =	10677.8	10680.0
Flow (%) =	.1	
Area (sq ft) =	3.4	
Vel (ft/s) =	1.36	
Depth (ft) =	1.54	

STATUS: Analyzing cross-section reach 13.286.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9886.00
Right Encroachment Statio 10607.00
Encroachment Method (TYPE) 1
Width or Percent Target 721.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.286	.085	.060	.085	5.26	1647.06	.00	1646.64
.005858	400	330	295	1647.19	.13	1.85	.01
250.19	18	358	1035	.00	1646.50	1646.70	3
3706	15	1359	2331	721.0	9886.00	10607.00	0
.74	.80	3.79	2.25	.000	66.9	1641.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.286
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1647.06

Station (ft) =	9886.0	9927.4	10053.8	10095.0	10140.5	10210.1
Flow (%) =	.4	36.7	4.5	3.4	3.8	
Area (sq ft) =	18.8	358.7	72.4	69.6	88.6	
Vel (ft/s) =	.80	3.79	2.31	1.80	1.58	
Depth (ft) =	.45	2.84	1.76	1.53	1.27	

Station (ft) =	10210.1	10253.5	10287.0	10321.8	10343.3	10432.5
Flow (%) =	3.5	3.8	4.5	3.5	3.3	
Area (sq ft) =	70.4	66.8	74.6	52.7	82.2	
Vel (ft/s) =	1.85	2.13	2.22	2.44	1.49	
Depth (ft) =	1.62	1.99	2.14	2.45	.92	

Station (ft) =	10432.5	10456.4	10488.7	10515.9	10528.6	10537.3
Flow (%) =	3.6	3.6	4.2	4.9	4.2	
Area (sq ft) =	55.9	63.3	64.8	52.8	41.7	
Vel (ft/s) =	2.36	2.10	2.40	3.43	3.76	
Depth (ft) =	2.34	1.96	2.38	4.16	4.79	

Station (ft) =	10537.3	10557.6	10577.2	10606.5	10607.0
Flow (%) =	3.6	4.3	4.2	.0	
Area (sq ft) =	52.9	58.0	67.4	1.1	
Vel (ft/s) =	2.54	2.76	2.33	.73	
Depth (ft) =	2.61	2.96	2.30	2.16	

STATUS: Analyzing cross-section reach 13.354.

STATUS: (3265) Divided flow.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the al[illegible] [illegible]ied by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9900.00
Right Encroachment Station (ft, STENCR)	10360.00
Encroachment Method (TYPE)	1
Width or Percent Target	460.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.354	.085	.060	.085	4.61	1650.51	1650.51	1650.44
.027407	360	360	365	1651.66	1.14	3.97	.30
258.13	25	297	169	.00	1649.50	1649.70	5
3706	69	2820	815	249.3	9900.00	10346.38	11
.75	2.70	9.49	4.82	.000	71.0	1645.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	13.354
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1650.51

Station (ft) =	9900.0	9932.1	10015.8	10286.7	10298.2	10305.9
Flow (%) =	1.9	76.1	3.4	8.4	6.4	
Area (sq ft) =	26.0	297.3	50.4	44.2	31.8	
Vel (ft/s) =	2.70	9.49	2.49	7.03	7.42	
Depth (ft) =	.81	3.55	.19	3.85	4.14	

Station (ft) =	10305.9	10334.2	10346.4
Flow (%) =	3.4	.5	
Area (sq ft) =	34.9	7.8	
Vel (ft/s) =	3.58	2.31	
Depth (ft) =	1.23	.64	

STATUS: Analyzing cross-section reach 13.435.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.62

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9920.00
Right Encroachment Station (ft, STENCR)	10340.00
Encroachment Method (TYPE)	1
Width or Percent Target	420.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.435	.085	.060	.085	6.80	1655.10	.00	1654.83
.004001	430	430	440	1655.37	.27	3.62	.09
266.31	82	515	550	.00	1653.30	1652.00	6
3706	144	2518	1043	420.0	9920.00	10340.00	0
.78	1.75	4.88	1.90	.000	74.3	1648.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	13.435
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1655.10

Station (ft) =	9920.0	9958.3	9963.7	10056.7	10077.5	10148.5
Flow (%) =	3.5	.4	68.0	3.2	3.6	
Area (sq ft) =	73.0	9.7	515.9	55.5	97.4	
Vel (ft/s) =	1.76	1.64	4.88	2.14	1.38	
Depth (ft) =	1.91	1.80	5.55	2.67	1.37	

Station (ft) =	10148.5	10175.6	10198.4	10209.5	10228.9	10265.7
Flow (%) =	3.7	3.8	3.6	3.1	3.2	
Area (sq ft) =	67.4	64.3	47.2	52.1	69.9	
Vel (ft/s) =	2.03	2.21	2.84	2.19	1.70	
Depth (ft) =	2.49	2.82	4.25	2.69	1.90	

Station (ft) =	10265.7	10306.2	10340.0
Flow (%) =	3.4	.5	
Area (sq ft) =	74.4	22.2	
Vel (ft/s) =	1.68	.89	
Depth (ft) =	1.84	.66	

STATUS: Analyzing cross-section reach 13.519.

STATUS: (3265) Divided flow.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9926.00
Right Encroachment Station (ft, STENCR)	10310.00
Encroachment Method (TYPE)	1
Width or Percent Target	384.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.519	.085	.060	.085	6.89	1657.39	.00	1657.14
.008015	450	440	440	1657.84	.45	2.42	.05
276.45	36	460	358	.00	1655.40	1657.60	3
3706	70	2785	849	345.6	9926.00	10310.00	0
.80	1.94	6.05	2.37	.000	78.2	1650.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	13.519
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1657.39

Station (ft) =	9926.0	9961.6	10065.5	10148.9	10167.3	10195.9
Flow (%) =	1.9	75.2	3.9	3.1	4.2	
Area (sq ft) =	36.3	460.8	62.4	41.9	58.6	
Vel (ft/s) =	1.94	6.05	2.31	2.73	2.63	
Depth (ft) =	1.02	4.56	.75	2.28	2.05	

Station (ft) =	10195.9	10234.0	10270.1	10302.0	10310.0
Flow (%) =	3.6	3.6	3.7	.8	
Area (sq ft) =	61.0	60.9	58.8	14.4	
Vel (ft/s) =	2.20	2.22	2.35	2.02	
Depth (ft) =	1.60	1.69	1.84	1.80	

STATUS: Analyzing cross-section reach 13.603.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9897.00
Right Encroachment Station (ft, STENCR)	10200.00
Encroachment Method (TYPE)	1
Width or Percent Target	303.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.603	.085	.055	.085	8.04	1660.44	.00	1660.34
.005590	450	445	575	1660.95	.50	3.09	.02
285.73	118	503	180	.00	1656.90	1659.70	2
3706	305	3099	301	303.0	9897.00	10200.00	0
.83	2.57	6.16	1.67	.000	82.0	1652.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	13.603
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1660.44

Station (ft) =	9897.0	9957.8	9965.1	10057.5	10147.5	10183.0
Flow (%) =	6.1	2.1	83.6	3.3	3.6	
Area (sq ft) =	93.0	25.9	503.2	88.1	66.0	
Vel (ft/s) =	2.44	3.04	6.16	1.41	1.99	
Depth (ft) =	1.53	3.54	5.45	.98	1.86	

Station (ft) =	10183.0	10200.0
Flow (%) =	1.2	
Area (sq ft) =	26.6	
Vel (ft/s) =	1.70	
Depth (ft) =	1.57	

STATUS: Analyzing cross-section reach 13.691.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9880.00
Right Encroachment Station (ft, STENCR)	10310.00
Encroachment Method (TYPE)	1
Width or Percent Target	430.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.691	.080	.055	.090	7.52	1663.42	.00	1663.28
.007784	440	465	510	1664.04	.62	3.06	.03
294.29	74	487	211	.00	1661.60	1662.50	1
3706	155	3264	285	426.4	9880.00	10306.35	0
.85	2.08	6.70	1.35	.000	86.1	1655.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.691
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1663.42

Station (ft) =	9880.0	9920.4	9930.9	10033.1	10096.3	10221.5
Flow (%) =	3.2	1.0	88.1	3.2	3.1	
Area (sq ft) =	58.2	16.5	487.4	72.5	90.5	
Vel (ft/s) =	2.05	2.21	6.70	1.65	1.27	
Depth (ft) =	1.44	1.57	4.77	1.15	.72	

Station (ft) =	10221.5	10306.4
Flow (%) =	1.4	
Area (sq ft) =	48.5	
Vel (ft/s) =	1.05	
Depth (ft) =	.57	

STATUS: Analyzing cross-section reach 13.761.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9948.00
Right Encroachment Station (ft, STENCR) 10415.00
Encroachment Method (TYPE) 1
Width or Percent Target 467.000

13.761	.080	.055	.090	6.72	1666.12	.00	1665.96
.006326	395	370	350	1666.63	.51	2.58	.01
300.98	2	526	294	.00	1665.60	1663.10	2
3706	1	3213	490	449.4	9948.00	10397.39	0
.87	.62	6.10	1.67	.000	89.7	1659.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	13.761
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1666.12

Station (ft) =	9948.0	9958.7	10068.2	10091.2	10109.4	10285.0
Flow (%) =	.0	86.7	4.9	3.4	3.9	
Area (sq ft) =	2.8	526.8	67.8	48.9	129.9	
Vel (ft/s) =	.62	6.10	2.70	2.55	1.12	
Depth (ft) =	.26	4.81	2.95	2.69	.74	

Station (ft) =	10285.0	10397.4
Flow (%) =	1.0	
Area (sq ft) =	48.2	
Vel (ft/s) =	.79	
Depth (ft) =	.43	

STATUS: Analyzing cross-section reach 13.841.

STATUS: (3265) Divided flow.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9944.00
Right Encroachment Station (ft, STENCR)	10525.00
Encroachment Method (TYPE)	1
Width or Percent Target	581.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.841	.080	.050	.080	7.05	1669.25	.00	1668.68
.009285	450	420	375	1669.72	.47	3.09	.00
308.97	0	283	650	.00	1669.20	1669.30	2
3706	0	2016	1689	531.7	9960.26	10525.00	0
.89	.02	7.11	2.60	.000	94.0	1662.20	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.841
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1669.25

Station (ft) =	9960.3	10032.1	10270.0	10350.0	10430.0	10525.0
Flow (%) =	54.4	7.4	12.3	13.3	12.7	
Area (sq ft) =	283.6	147.4	159.9	167.9	175.7	
Vel (ft/s) =	7.11	1.85	2.84	2.93	2.67	
Depth (ft) =	4.03	.62	2.00	2.10	1.85	

STATUS: Analyzing cross-section reach 13.912.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.45

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9821.00
Right Encroachment Station (ft, STENCR) 10360.00
Encroachment Method (TYPE) 1
Width or Percent Target 539.000

13.912	.070	.055	.070	4.77	1671.87	.00	1671.24
.004426	355	375	385	1672.08	.21	2.33	.03
318.27	354	376	483	.00	1669.10	1669.70	2
3706	977	1748	979	539.0	9821.00	10360.00	0
.92	2.76	4.64	2.03	.000	98.7	1667.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.912
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1671.87

Station (ft) =	9821.0	9860.0	9873.3	9905.0	9932.7	9944.0
Flow (%) =	3.1	4.7	4.5	4.9	3.2	
Area (sq ft) =	54.2	50.8	70.0	69.4	37.5	
Vel (ft/s) =	2.10	3.46	2.39	2.61	3.15	
Depth (ft) =	1.39	3.82	2.21	2.51	3.32	

Station (ft) =	9944.0	9966.8	10057.4	10133.4	10190.0	10235.0
Flow (%) =	6.0	47.2	3.1	3.1	4.6	
Area (sq ft) =	72.4	376.9	77.5	68.4	81.3	
Vel (ft/s) =	3.06	4.64	1.49	1.68	2.10	
Depth (ft) =	3.17	4.16	1.02	1.21	1.81	

Station (ft) =	10235.0	10285.0	10350.0	10360.0
Flow (%) =	5.8	8.6	1.1	
Area (sq ft) =	97.7	137.4	20.9	
Vel (ft/s) =	2.22	2.33	2.03	
Depth (ft) =	1.95	2.11	2.09	

STATUS: Analyzing cross-section reach 13.987.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .59

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9912.00
Right Encroachment Station (ft, STENCR)	10325.00
Encroachment Method (TYPE)	1
Width or Percent Target	413.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
13.987	.070	.050	.070	5.73	1674.43	.00	1674.24
.012921	400	400	415	1675.05	.62	2.84	.12
327.26	3	404	303	.00	1674.00	1674.20	2
3706	4	2847	853	413.0	9912.00	10325.00	0
.94	1.24	7.03	2.81	.000	103.2	1668.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 13.987
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1674.43

Station (ft) =	9912.0	9922.5	10056.6	10159.0	10198.5	10216.3
Flow (%) =	.1	76.8	3.7	3.0	3.2	
Area (sq ft) =	4.0	404.9	70.9	43.5	32.6	
Vel (ft/s) =	1.24	7.03	1.94	2.60	3.61	
Depth (ft) =	.38	3.02	.69	1.10	1.83	

Station (ft) =	10216.3	10242.0	10268.0	10296.4	10325.0
Flow (%) =	3.1	3.5	3.5	2.9	
Area (sq ft) =	37.4	40.4	42.0	37.0	
Vel (ft/s) =	3.12	3.25	3.13	2.87	
Depth (ft) =	1.46	1.55	1.48	1.29	

STATUS: Analyzing cross-section reach 14.076.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.64

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9911.00
Right Encroachment Station (ft, STENCR) 10370.00
Encroachment Method (TYPE) 1
Width or Percent Target 459.000

14.076	.070	.050	.070	5.95	1678.25	.00	1677.78
.004787	480	470	470	1678.56	.31	3.48	.03
336.91	130	407	535	.00	1676.80	1677.10	3
3706	281	2221	1203	459.0	9911.00	10370.00	0
.97	2.15	5.46	2.25	.000	107.9	1672.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	14.076
Total Discharge (cfs, Q)	3706
Computed Water Surface Elevation (ft MSL, CWSEL)	1678.25

Station (ft) =	9911.0	9953.1	9978.0	9987.4	10080.2	10132.6
Flow (%) =	3.3	3.5	.8	59.9	3.3	
Area (sq ft) =	62.4	53.2	15.1	407.2	67.8	
Vel (ft/s) =	1.93	2.44	2.02	5.46	1.79	
Depth (ft) =	1.48	2.14	1.61	4.39	1.29	

Station (ft) =	10132.6	10169.0	10197.5	10225.3	10262.9	10287.9
Flow (%) =	3.5	3.3	4.3	4.5	3.1	
Area (sq ft) =	61.9	53.9	62.8	73.3	50.0	
Vel (ft/s) =	2.10	2.25	2.53	2.29	2.33	
Depth (ft) =	1.70	1.89	2.26	1.95	2.00	

Station (ft) =	10287.9	10324.5	10345.0	10370.0
Flow (%) =	3.7	3.3	3.4	
Area (sq ft) =	64.2	47.4	54.2	
Vel (ft/s) =	2.14	2.57	2.36	
Depth (ft) =	1.75	2.31	2.17	

STATUS: Analyzing cross-section reach 14.126.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9878.00
Right Encroachment Station (ft, STENCR)	10330.00
Encroachment Method (TYPE)	1
Width or Percent Target	452.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.126	.070	.050	.070	5.84	1679.64	.00	1679.46
.007049	275	260	250	1680.10	.46	1.49	.05
342.75	184	367	346	.00	1677.10	1679.20	3
3706	568	2388	748	452.0	9878.00	10330.00	0
.98	3.08	6.49	2.16	.000	110.6	1673.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.126
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1679.64

Station (ft) =	9878.0	9924.0	9941.5	9961.3	9972.4	10059.4
Flow (%) =	3.5	4.0	5.3	2.6	64.4	
Area (sq ft) =	55.9	44.8	55.2	28.7	368.0	
Vel (ft/s) =	2.29	3.34	3.53	3.36	6.49	
Depth (ft) =	1.22	2.56	2.79	2.59	4.23	

Station (ft) =	10059.4	10107.6	10179.2	10223.4	10272.6	10300.0
Flow (%) =	3.5	3.8	3.3	3.3	3.1	
Area (sq ft) =	61.3	74.9	57.2	59.6	45.0	
Vel (ft/s) =	2.14	1.89	2.12	2.03	2.53	
Depth (ft) =	1.27	1.05	1.29	1.21	1.64	

Station (ft) =	10300.0	10330.0
Flow (%) =	3.2	
Area (sq ft) =	48.7	
Vel (ft/s) =	2.47	
Depth (ft) =	1.62	

STATUS: Analyzing cross-section reach 14.197.

STATUS: (3265) Divided flow.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9861.00
Right Encroachment Station (ft, STENCR) 10200.00
Encroachment Method (TYPE) 1
Width or Percent Target 339.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.197	.070	.055	.070	5.72	1682.72	.00	1682.43
.010814	380	375	370	1683.40	.67	3.24	.06
349.31	35	522	69	.00	1681.90	1681.60	2
3706	66	3523	115	328.1	9861.00	10200.00	0
1.00	1.88	6.75	1.65	.000	113.9	1677.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.197
Total Discharge (cfs, Q) 3706
Computed Water Surface Elevation (ft MSL, CWSEL) 1682.72

Station (ft) =	9861.0	9918.2	10057.3	10193.7	10200.0
Flow (%) =	1.8	95.1	3.0	.1	
Area (sq ft) =	35.5	522.3	67.6	2.4	
Vel (ft/s) =	1.88	6.75	1.67	1.12	
Depth (ft) =	.62	3.76	.50	.38	

STATUS: Analyzing cross-section reach 14.310.

STATUS: (3280) For cross-section 14.31, ends have been extended vertically 1.53 feet in order to calculate the hydraulic cross-section properties.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9766.00
Right Encroachment Station (ft, STENCR) 10150.00
Encroachment Method (TYPE) 1
Width or Percent Target 384.000

14.310	.080	.050	.080	8.32	1688.22	.00	1687.95
.006850	600	600	690	1688.64	.42	5.22	.03
360.04	429	266	194	.00	1686.00	1686.90	2
3322	1099	1790	432	384.0	9766.00	10150.00	0
1.04	2.56	6.71	2.23	.000	119.1	1679.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	14.310
Total Discharge (cfs, Q)	3322
Computed Water Surface Elevation (ft MSL, CWSEL)	1688.22

Station (ft) =	9766.0	9805.9	9828.2	9850.8	9881.7	9903.2
Flow (%) =	3.7	4.9	4.7	4.8	5.2	
Area (sq ft) =	58.4	57.0	55.9	63.5	57.9	
Vel (ft/s) =	2.08	2.88	2.82	2.49	2.98	
Depth (ft) =	1.46	2.56	2.47	2.06	2.69	

Station (ft) =	9903.2	9931.5	9967.5	9974.7	10032.7	10081.1
Flow (%) =	4.0	4.5	1.3	53.9	3.4	
Area (sq ft) =	54.8	65.1	16.4	267.0	62.6	
Vel (ft/s) =	2.41	2.30	2.66	6.71	1.83	
Depth (ft) =	1.94	1.81	2.28	4.60	1.29	

Station (ft) =	10081.1	10105.8	10127.1	10150.0
Flow (%) =	3.2	3.3	3.1	
Area (sq ft) =	45.3	43.5	42.8	
Vel (ft/s) =	2.34	2.52	2.39	
Depth (ft) =	1.83	2.04	1.87	

STATUS: Analyzing cross-section reach 14.396.

STATUS: (3280) For cross-section 14.40, ends have been extended vertically .84 feet in order to calculate the hydraulic cross-section properties.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9898.00
Right Encroachment Station (ft, STENCR)	10199.00
Encroachment Method (TYPE)	1
Width or Percent Target	301.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.396	.085	.050	.085	7.54	1691.44	.00	1691.47
.008419	465	455	430	1692.17	.73	3.44	.09
368.15	111	327	235	.00	1689.40	1689.20	2
3322	270	2544	507	301.0	9898.00	10199.00	0
1.05	2.43	7.76	2.15	.000	122.6	1683.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.396
Total Discharge (cfs, Q) 3322
Computed Water Surface Elevation (ft MSL, CWSEL) 1691.44

Station (ft) =	9898.0	9944.9	9968.8	10036.1	10059.9	10111.6
Flow (%) =	4.0	4.1	76.6	3.1	3.3	
Area (sq ft) =	60.4	50.9	327.9	43.4	60.9	
Vel (ft/s) =	2.21	2.68	7.76	2.40	1.80	
Depth (ft) =	1.29	2.13	4.87	1.83	1.18	

Station (ft) =	10111.6	10152.4	10174.3	10199.0
Flow (%) =	4.4	3.4	1.0	
Area (sq ft) =	66.0	43.8	21.5	
Vel (ft/s) =	2.24	2.58	1.52	
Depth (ft) =	1.62	2.00	.87	

STATUS: Analyzing cross-section reach 14.481.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9881.00
Right Encroachment Station (ft, STENCR) 10041.00
Encroachment Method (TYPE) 1
Width or Percent Target 160.000

14.481	.085	.050	.085	6.53	1695.23	.00	1694.57
.008955	465	445	400	1696.04	.80	3.84	.02
374.11	65	429	14	.00	1693.70	1694.20	2
3322	138	3161	22	160.0	9881.00	10041.00	0
1.07	2.13	7.36	1.52	.000	124.9	1688.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.481
Total Discharge (cfs, Q) 3322
Computed Water Surface Elevation (ft MSL, CWSEL) 1695.23

Station (ft) =	9881.0	9895.6	9904.9	9916.3	9924.3	10024.6
Flow (%) =	1.3	1.0	1.1	.8	95.2	
Area (sq ft) =	21.8	14.3	17.0	11.9	429.6	
Vel (ft/s) =	2.03	2.21	2.16	2.16	7.36	
Depth (ft) =	1.49	1.54	1.49	1.49	4.28	

Station (ft) =	10024.6	10040.6	10041.0
Flow (%) =	.7	.0	
Area (sq ft) =	14.3	.3	
Vel (ft/s) =	1.53	.67	
Depth (ft) =	.89	.75	

STATUS: Analyzing cross-section reach 14.569.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9909.00
Right Encroachment Station (ft, STENCR)	10069.00
Encroachment Method (TYPE)	1
Width or Percent Target	160.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.569	.085	.050	.085	7.45	1699.05	.00	1698.24
.006749	450	465	485	1699.66	.61	3.60	.02
380.00	54	449	89	.00	1697.20	1696.30	2
3322	126	2950	244	160.0	9909.00	10069.00	0
1.09	2.35	6.56	2.74	.000	126.6	1691.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	14.569
Total Discharge (cfs, Q)	3322
Computed Water Surface Elevation (ft MSL, CWSEL)	1699.05

Station (ft) =	9909.0	9923.5	9934.7	10035.3	10047.6	10068.7
Flow (%) =	2.2	1.6	88.8	2.9	4.5	
Area (sq ft) =	31.2	23.0	449.4	33.8	54.9	
Vel (ft/s) =	2.37	2.32	6.56	2.82	2.72	
Depth (ft) =	2.15	2.05	4.47	2.75	2.60	

Station (ft) =	10068.7	10069.0
Flow (%) =		.0
Area (sq ft) =		.7
Vel (ft/s) =		.59
Depth (ft) =		2.45

STATUS: Analyzing cross-section reach 14.656.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9932.00
Right Encroachment Station (ft, STENCR)	10088.00
Encroachment Method (TYPE)	1
Width or Percent Target	156.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.656	.085	.050	.085	6.96	1702.26	.00	1701.88
.007830	460	460	475	1703.06	.80	3.35	.06
386.10	101	362	93	.00	1699.60	1700.60	2
3322	289	2800	231	156.0	9932.00	10088.00	0
1.11	2.85	7.73	2.49	.000	128.3	1695.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	14.656
Total Discharge (cfs, Q)	3322
Computed Water Surface Elevation (ft MSL, CWSEL)	1702.26

Station (ft) =	9932.0	9943.5	9961.3	9973.0	10043.3	10051.9
Flow (%) =		1.7	4.1	2.9	84.3	.9
Area (sq ft) =		23.6	46.4	31.7	362.2	14.3
Vel (ft/s) =		2.46	2.93	3.01	7.73	2.17
Depth (ft) =		2.05	2.61	2.71	5.15	1.66

Station (ft) =	10051.9	10059.9	10070.5	10088.0
Flow (%) =		1.3	2.3	2.5
Area (sq ft) =		16.9	26.6	35.3
Vel (ft/s) =		2.53	2.86	2.33
Depth (ft) =		2.11	2.51	2.02

STATUS: Analyzing cross-section reach 14.711.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9964.00
Right Encroachment Station (ft, STENCR)	10113.00
Encroachment Method (TYPE)	1
Width or Percent Target	149.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.711	.085	.050	.085	6.40	1704.40	.00	1704.01
.005006	305	290	260	1704.88	.48	1.79	.03
389.98	13	583	17	.00	1702.40	1702.30	2
3322	21	3267	33	149.0	9964.00	10113.00	0
1.13	1.61	5.60	1.85	.000	129.3	1698.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	14.711
Total Discharge (cfs, Q)	3322
Computed Water Surface Elevation (ft MSL, CWSEL)	1704.40

Station (ft) =	9964.0	9971.3	10103.5	10112.6	10113.0
Flow (%) =	.6	98.4	1.0	.0	
Area (sq ft) =	13.2	583.3	17.3	.7	
Vel (ft/s) =	1.61	5.60	1.90	.58	
Depth (ft) =	1.81	4.41	1.90	1.70	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 14.754.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .58

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9938.00
Right Encroachment Station (ft, STENCR)	10102.00
Encroachment Method (TYPE)	1
Width or Percent Target	164.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.754	.085	.051	.057	5.96	1705.96	.00	1705.43
.014956	225	230	255	1706.88	.92	1.87	.13
392.85	1	336	119	.00	1704.90	1704.70	2
3322	2	2752	567	164.0	9938.00	10102.00	0
1.13	1.59	8.17	4.77	.000	130.1	1700.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.754
Total Discharge (cfs, Q) 3322
Computed Water Surface Elevation (ft MSL, CWSEL) 1705.96

Station (ft) =	9938.0	9939.6	9960.1	10011.4	10035.8	10064.0
Flow (%) =	.1	3.7	72.4	6.7	5.7	
Area (sq ft) =	1.7	38.4	239.8	58.6	46.2	
Vel (ft/s) =	1.59	3.24	10.03	3.78	4.10	
Depth (ft) =	1.08	1.88	4.67	2.40	1.64	

Station (ft) =	10064.0	10075.7	10084.6	10102.0
Flow (%) =	4.4	3.4	3.6	
Area (sq ft) =	24.4	18.8	29.6	
Vel (ft/s) =	5.95	5.98	4.06	
Depth (ft) =	2.09	2.11	1.70	

STATUS: Analyzing cross-section reach 14.845.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.79

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9883.00
Right Encroachment Station (ft, STENCR) 10115.00
Encroachment Method (TYPE) 1
Width or Percent Target 232.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.845	.085	.050	.085	6.41	1710.31	.00	1709.67
.004678	480	480	500	1710.66	.34	3.72	.06
399.86	55	517	226	.00	1707.80	1707.30	3
3322	114	2658	549	232.0	9883.00	10115.00	0
1.16	2.07	5.13	2.42	.000	132.3	1703.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.845
Total Discharge (cfs, Q) 3322
Computed Water Surface Elevation (ft MSL, CWSEL) 1710.31

Station (ft) =	9883.0	9887.3	9905.5	10033.6	10039.5	10046.2
Flow (%) =	.5	2.9	80.0	1.4	2.3	
Area (sq ft) =	10.4	44.9	517.9	18.7	26.2	
Vel (ft/s) =	1.60	2.18	5.13	2.58	2.94	
Depth (ft) =	2.41	2.46	4.04	3.16	3.91	

Station (ft) =	10046.2	10052.6	10064.5	10081.0	10100.5	10115.0
Flow (%) =	2.4	3.2	2.9	2.6	1.6	
Area (sq ft) =	26.3	39.4	43.1	43.2	29.9	
Vel (ft/s) =	3.05	2.65	2.27	2.03	1.78	
Depth (ft) =	4.11	3.31	2.61	2.21	2.07	

STATUS: Analyzing cross-section reach 14.937.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .66

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9883.00
Right Encroachment Station (ft, STENCR) 10076.00
Encroachment Method (TYPE) 1
Width or Percent Target 193.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.937	.080	.050	.080	6.02	1713.32	.00	1712.97
.010676	500	485	480	1714.06	.74	3.29	.12
407.45	101	346	114	.00	1712.30	1711.30	3
3322	285	2631	404	193.0	9883.00	10076.00	0
1.18	2.81	7.59	3.53	.000	134.7	1707.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.937
Total Discharge (cfs, Q) 3322
Computed Water Surface Elevation (ft MSL, CWSEL) 1713.32

Station (ft) =	9883.0	9896.2	9907.1	9920.6	9932.7	9939.7
Flow (%) =	1.8	2.1	2.4	1.6	.6	
Area (sq ft) =	22.8	22.6	26.6	20.2	9.3	
Vel (ft/s) =	2.57	3.12	3.02	2.70	2.31	
Depth (ft) =	1.73	2.07	1.97	1.67	1.32	

Station (ft) =	9939.7	10028.1	10032.4	10040.6	10048.7	10061.5
Flow (%) =	79.2	.9	3.1	3.2	3.0	
Area (sq ft) =	346.9	9.6	25.6	25.7	29.7	
Vel (ft/s) =	7.59	3.26	4.06	4.11	3.36	
Depth (ft) =	3.92	2.22	3.12	3.17	2.32	

Station (ft) =	10061.5	10075.6	10076.0
Flow (%) =	1.9	.0	
Area (sq ft) =	23.6	.5	
Vel (ft/s) =	2.70	.87	
Depth (ft) =	1.67	1.21	

STATUS: Analyzing cross-section reach 14.976.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9883.00
Right Encroachment Station (ft, STENCR) 10111.00
Encroachment Method (TYPE) 1
Width or Percent Target 228.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
14.976	.080	.050	.080	6.39	1715.39	.00	1715.14
.008922	205	205	225	1716.09	.70	2.02	.00
410.29	100	353	161	.00	1713.80	1713.40	3
3322	216	2628	477	228.0	9883.00	10111.00	0
1.19	2.16	7.44	2.96	.000	135.7	1709.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 14.976
Total Discharge (cfs, Q) 3322
Computed Water Surface Elevation (ft MSL, CWSEL) 1715.39

Station (ft) =	9883.0	9911.3	9955.0	10035.9	10059.7	10081.1
Flow (%) =	3.1	3.4	79.1	3.9	4.7	
Area (sq ft) =	44.8	55.3	353.4	46.6	49.8	
Vel (ft/s) =	2.28	2.06	7.44	2.75	3.11	
Depth (ft) =	1.58	1.27	4.37	1.96	2.33	

Station (ft) =	10081.1	10110.5	10111.0
Flow (%) =	5.8	.0	
Area (sq ft) =	64.4	.6	
Vel (ft/s) =	3.02	.87	
Depth (ft) =	2.19	1.18	

STATUS: Analyzing cross-section reach 15.044.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9896.00
Right Encroachment Station (ft, STENCR) 10148.00
Encroachment Method (TYPE) 1
Width or Percent Target 252.000

15.044	.070	.065	.070	5.94	1718.74	.00	1718.11
.007506	405	360	335	1719.09	.35	2.97	.04
415.82	173	366	171	.00	1716.80	1716.10	2
3035	568	1999	467	252.0	9896.00	10148.00	0
1.21	3.27	5.45	2.73	.000	137.7	1712.80	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.044
Total Discharge (cfs, Q)	3035
Computed Water Surface Elevation (ft MSL, CWSEL)	1718.74

Station (ft) =	9896.0	9910.3	9928.6	9945.2	9961.1	9969.3
Flow (%) =	3.7	5.1	4.8	3.7	1.5	
Area (sq ft) =	34.2	45.6	42.2	35.6	15.9	
Vel (ft/s) =	3.27	3.38	3.42	3.15	2.86	
Depth (ft) =	2.39	2.49	2.54	2.24	1.94	

Station (ft) =	9969.3	10048.9	10062.8	10079.1	10097.7	10135.9
Flow (%) =	65.9	4.1	3.1	3.1	4.1	
Area (sq ft) =	366.6	36.0	32.5	34.2	54.0	
Vel (ft/s) =	5.45	3.46	2.91	2.76	2.33	
Depth (ft) =	4.61	2.59	1.99	1.84	1.41	

Station (ft) =	10135.9	10148.0
Flow (%) =	.9	
Area (sq ft) =	14.4	
Vel (ft/s) =	1.95	
Depth (ft) =	1.19	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.118.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9810.00
Right Encroachment Station (ft, STENCR)	10032.00
Encroachment Method (TYPE)	1
Width or Percent Target	222.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.118	.085	.055	.085	4.39	1721.89	.00	1721.06
.009288	340	390	410	1722.29	.40	3.18	.01
421.69	181	455	0	.00	1720.60	1720.40	2
3035	573	2461	0	222.0	9810.00	10032.00	0
1.24	3.15	5.41	.67	.000	139.8	1717.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 15.118
Total Discharge (cfs, Q) 3035
Computed Water Surface Elevation (ft MSL, CWSEL) 1721.89

Station (ft) =	9810.0	9826.1	9838.0	9851.0	9867.5	9879.8
Flow (%) =	3.8	3.8	3.9	4.9	2.6	
Area (sq ft) =	40.3	33.9	35.6	44.9	27.1	
Vel (ft/s) =	2.86	3.39	3.30	3.28	2.90	
Depth (ft) =	2.50	2.85	2.74	2.72	2.20	

Station (ft) =	9879.8	10031.7	10032.0
Flow (%) =	81.1	.0	
Area (sq ft) =	455.3	.4	
Vel (ft/s) =	5.41	.67	
Depth (ft) =	3.00	1.49	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.208.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9920.00
Right Encroachment Station (ft, STENCR) 10133.00
Encroachment Method (TYPE) 1
Width or Percent Target 213.000

15.208	.075	.055	.075	5.10	1726.00	.00	1725.36
.008425	425	475	520	1726.44	.44	4.14	.01
428.34	98	492	18	.00	1724.00	1724.10	2
3035	260	2726	47	213.0	9920.00	10133.00	0
1.26	2.64	5.54	2.58	.000	142.1	1720.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 15.208
Total Discharge (cfs, Q) 3035
Computed Water Surface Elevation (ft MSL, CWSEL) 1726.00

Station (ft) =	9920.0	9960.0	9976.1	10122.5	10133.0
Flow (%) =	5.2	3.4	89.8	1.6	
Area (sq ft) =	64.4	34.2	492.6	18.4	
Vel (ft/s) =	2.45	3.01	5.54	2.58	
Depth (ft) =	1.61	2.12	3.36	1.75	

STATUS: Analyzing cross-section reach 15.298.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9959.00
Right Encroachment Station (ft, STENCR)	10126.00
Encroachment Method (TYPE)	1
Width or Percent Target	167.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.298	.075	.055	.075	5.41	1730.31	.00	1730.02
.010416	515	475	450	1730.93	.62	4.43	.05
434.54	21	351	155	.00	1728.30	1727.90	2
3035	57	2402	575	167.0	9959.00	10126.00	0
1.28	2.65	6.84	3.70	.000	144.2	1724.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.298
Total Discharge (cfs, Q)	3035
Computed Water Surface Elevation (ft MSL, CWSEL)	1730.31

Station (ft) =	9959.0	9962.2	9969.1	9975.5	10064.8	10075.0
Flow (%) =	.0	.6	1.3	79.2	2.9	
Area (sq ft) =	1.3	8.0	12.2	351.1	24.6	
Vel (ft/s) =	1.04	2.21	3.11	6.84	3.64	
Depth (ft) =	.40	1.16	1.91	3.93	2.41	

Station (ft) =	10075.0	10084.3	10091.1	10099.1	10106.0	10115.4
Flow (%) =	2.6	2.2	3.1	2.6	3.0	
Area (sq ft) =	22.0	17.4	22.9	19.4	24.1	
Vel (ft/s) =	3.59	3.78	4.08	4.03	3.78	
Depth (ft) =	2.36	2.56	2.86	2.81	2.56	

Station (ft) =	10115.4	10126.0
Flow (%) =	2.6	
Area (sq ft) =	25.0	
Vel (ft/s) =	3.14	
Depth (ft) =	2.36	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.379.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.44

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9836.00
Right Encroachment Station (ft, STENCR)	10130.00
Encroachment Method (TYPE)	1
Width or Percent Target	294.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.379	.072	.054	.100	4.85	1733.75	.00	1733.15
.005056	450	430	415	1734.00	.24	3.03	.04
441.43	351	390	116	.00	1731.80	1731.10	3
3035	1035	1798	200	294.0	9836.00	10130.00	0
1.31	2.95	4.61	1.72	.000	146.5	1728.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.379
Total Discharge (cfs, Q)	3035
Computed Water Surface Elevation (ft MSL, CWSEL)	1733.75

Station (ft) =	9836.0	9858.2	9868.1	9880.7	9895.4	9911.9
Flow (%) =	5.3	5.6	7.2	4.5	3.1	
Area (sq ft) =	51.6	39.2	49.8	39.8	39.7	
Vel (ft/s) =	3.12	4.36	4.40	3.42	2.34	
Depth (ft) =	2.33	3.96	3.96	2.71	2.41	

Station (ft) =	9911.9	9936.0	9964.8	9982.4	10033.0	10044.3
Flow (%) =	4.6	3.8	2.2	38.6	2.4	
Area (sq ft) =	67.3	64.0	37.9	213.4	33.2	
Vel (ft/s) =	2.09	1.80	1.76	5.49	2.16	
Depth (ft) =	2.79	2.22	2.16	4.22	2.94	

Station (ft) =	10044.3	10065.3	10072.9	10115.0	10130.0
Flow (%) =	14.5	1.6	5.7	.9	
Area (sq ft) =	83.6	22.5	94.4	22.1	
Vel (ft/s) =	5.27	2.17	1.82	1.30	
Depth (ft) =	3.98	2.96	2.24	1.48	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.443.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9742.00
Right Encroachment Station (ft, STENCR)	10094.00
Encroachment Method (TYPE)	1
Width or Percent Target	352.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.443	.073	.050	.100	4.32	1735.92	.00	1735.87
.009495	335	335	355	1736.32	.39	2.27	.05
447.55	398	264	61	.00	1734.90	1734.00	2
3035	1242	1651	141	351.4	9742.00	10093.37	0
1.33	3.12	6.24	2.29	.000	149.0	1731.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.443
Total Discharge (cfs, Q)	3035
Computed Water Surface Elevation (ft MSL, CWSEL)	1735.92

Station (ft) =	9742.0	9801.7	9811.0	9829.0	9869.0	9921.5
Flow (%) =	16.3	5.7	6.7	5.4	3.8	
Area (sq ft) =	120.1	31.8	45.3	74.8	67.4	
Vel (ft/s) =	4.12	5.46	4.47	2.20	1.72	
Depth (ft) =	2.01	3.42	2.52	1.87	1.28	

Station (ft) =	9921.5	9975.2	10057.8	10079.4	10093.4
Flow (%) =	3.0	54.4	4.0	.7	
Area (sq ft) =	59.2	264.5	48.7	12.8	
Vel (ft/s) =	1.55	6.24	2.49	1.55	
Depth (ft) =	1.10	3.20	2.25	.92	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.500.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9914.00
Right Encroachment Station (ft, STENCR)	10249.00
Encroachment Method (TYPE)	1
Width or Percent Target	335.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.500	.100	.067	.100	5.16	1739.06	.00	1738.73
.010665	300	300	295	1739.34	.28	3.01	.01
452.69	66	551	152	.00	1737.70	1736.60	4
3035	113	2507	413	335.0	9914.00	10249.00	0
1.35	1.71	4.55	2.72	.000	151.3	1733.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.500
Total Discharge (cfs, Q)	3035
Computed Water Surface Elevation (ft MSL, CWSEL)	1739.06

Station (ft) =	9914.0	9970.4	9978.6	10037.0	10124.7	10176.0
Flow (%) =	3.1	.7	27.2	17.1	38.3	
Area (sq ft) =	55.5	11.1	163.6	197.4	190.7	
Vel (ft/s) =	1.68	1.88	5.04	2.63	6.10	
Depth (ft) =	.98	1.36	2.80	2.25	3.72	

Station (ft) =	10176.0	10191.3	10200.6	10214.4	10249.0
Flow (%) =	3.8	3.2	3.7	3.0	
Area (sq ft) =	39.7	29.4	37.4	45.6	
Vel (ft/s) =	2.90	3.30	2.98	1.97	
Depth (ft) =	2.59	3.16	2.71	1.32	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.581.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9784.00
Right Encroachment Station (ft, STENCR)	10198.00
Encroachment Method (TYPE)	1
Width or Percent Target	414.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.581	.080	.059	.100	5.62	1742.82	.00	1742.13
.007193	380	430	460	1743.04	.21	3.69	.01
460.88	345	461	111	.00	1741.00	1740.20	3
3035	816	1975	242	414.0	9784.00	10198.00	0
1.39	2.37	4.28	2.18	.000	154.9	1737.20	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.581
Total Discharge (cfs, Q)	3035
Computed Water Surface Elevation (ft MSL, CWSEL)	1742.82

Station (ft) =	9784.0	9823.3	9866.8	9921.4	9935.0	9942.5
Flow (%) =	3.6	3.8	5.1	5.4	4.1	
Area (sq ft) =	63.0	67.4	78.7	38.7	26.1	
Vel (ft/s) =	1.72	1.69	1.96	4.24	4.74	
Depth (ft) =	1.60	1.55	1.44	2.85	3.48	

Station (ft) =	9942.5	9973.0	9982.3	10020.6	10062.2	10144.2
Flow (%) =	3.9	1.1	17.0	3.2	45.0	
Area (sq ft) =	53.7	17.5	117.2	59.7	284.8	
Vel (ft/s) =	2.21	1.92	4.39	1.60	4.79	
Depth (ft) =	1.76	1.88	3.06	1.44	3.47	

Station (ft) =	10144.2	10162.5	10190.3	10198.0
Flow (%) =	4.4	3.3	.3	
Area (sq ft) =	52.2	51.1	8.3	
Vel (ft/s) =	2.54	1.96	1.22	
Depth (ft) =	2.86	1.84	1.08	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.637.

STATUS: (3265) Divided flow.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9889.00
Right Encroachment Station (ft, STENCR)	10230.00
Encroachment Method (TYPE)	1
Width or Percent Target	341.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.637	.060	.060	.066	5.96	1745.36	.00	1744.59
.011820	285	295	300	1745.77	.41	2.67	.06
466.00	159	88	354	.00	1744.70	1745.00	1
3035	673	383	1978	292.2	9889.00	10230.00	0
1.40	4.23	4.32	5.58	.000	157.3	1739.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.637
Total Discharge (cfs, Q)	3035
Computed Water Surface Elevation (ft MSL, CWSEL)	1745.36

Station (ft) =	9889.0	9901.7	9926.7	9946.8	9961.0	9975.9
Flow (%) =	3.0	7.8	5.6	4.7	1.0	
Area (sq ft) =	22.7	52.8	40.2	30.8	12.7	
Vel (ft/s) =	4.05	4.50	4.26	4.59	2.41	
Depth (ft) =	1.79	2.11	2.00	2.17	.85	

Station (ft) =	9975.9	10019.0	10124.4	10137.8	10143.7	10150.6
Flow (%) =	12.6	4.1	10.6	10.2	11.8	
Area (sq ft) =	88.8	43.2	49.6	35.1	40.7	
Vel (ft/s) =	4.32	2.90	6.49	8.84	8.79	
Depth (ft) =	2.06	.41	3.70	5.95	5.90	

Station (ft) =	10150.6	10156.2	10162.7	10169.3	10182.0	10194.5
Flow (%) =	8.3	6.6	4.2	3.8	3.2	
Area (sq ft) =	30.5	28.3	21.4	35.5	32.2	
Vel (ft/s) =	8.28	7.07	5.88	3.21	3.04	
Depth (ft) =	5.45	4.35	3.25	2.80	2.57	

Station (ft) =	10194.5	10230.0
Flow (%) =	2.4	
Area (sq ft) =	38.0	
Vel (ft/s) =	1.90	
Depth (ft) =	1.07	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.683.

STATUS: (3265) Divided flow.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9929.00
Right Encroachment Station (ft, STENCR)	10388.00
Encroachment Method (TYPE)	1
Width or Percent Target	459.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.683	.100	.060	.062	6.65	1747.65	.00	1746.95
.006920	235	245	255	1748.01	.36	2.23	.01
469.64	0	138	523	.00	1747.00	1748.00	1
3035	0	391	2643	256.4	9929.00	10388.00	0
1.42	.60	2.84	5.05	.000	158.9	1741.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.683
Total Discharge (cfs, Q)	3035
Computed Water Surface Elevation (ft MSL, CWSEL)	1747.65

Station (ft) =	9929.0	9929.7	10015.0	10269.6	10277.8	10285.3
Flow (%) =	.0	12.9	5.6	5.2	9.0	
Area (sq ft) =	.4	138.1	78.2	31.6	42.4	
Vel (ft/s) =	.60	2.84	2.16	4.98	6.42	
Depth (ft) =	.64	1.64	.31	3.85	5.65	

Station (ft) =	10285.3	10292.4	10298.6	10301.6	10309.8	10322.5
Flow (%) =	11.2	9.4	3.6	4.8	6.8	
Area (sq ft) =	46.9	40.0	17.1	30.4	43.7	
Vel (ft/s) =	7.25	7.13	6.31	4.83	4.69	
Depth (ft) =	6.60	6.45	5.70	3.71	3.44	

Station (ft) =	10322.5	10329.6	10335.4	10339.4	10344.1	10352.3
Flow (%) =	7.5	7.5	5.1	4.1	3.7	
Area (sq ft) =	36.9	33.9	23.2	22.3	25.8	
Vel (ft/s) =	6.14	6.69	6.64	5.56	4.39	
Depth (ft) =	5.20	5.85	5.80	4.75	3.15	

Station (ft) =	10352.3	10369.4	10388.0
Flow (%) =	3.2	.6	
Area (sq ft) =	34.5	16.0	
Vel (ft/s) =	2.79	1.14	
Depth (ft) =	2.02	.86	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.749.

STATUS: (3265) Divided flow.

WARNING: (3685) 20 trials attempted in balancing assumed water surface elevation (WSEL) and computed water surface elevation (CWSEL).

WARNING: (3693) It is probable that critical depth has been crossed.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9857.00
Right Encroachment Station (ft, STENCR)	10226.00
Encroachment Method (TYPE)	1
Width or Percent Target	369.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.749	.080	.060	.062	5.91	1751.31	1751.31	1751.68
.028204	355	345	345	1751.84	.53	3.22	.05
473.12	57	58	102	.00	1751.60	1752.10	20
1150	160	365	624	222.8	9857.00	10220.96	12
1.43	2.81	6.27	6.12	.000	160.8	1745.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 15.749
Total Discharge (cfs, Q) 1150
Computed Water Surface Elevation (ft MSL, CWSEL) 1751.31

Station (ft) =	9857.0	9869.1	9874.1	9894.3	9959.1	10013.5
Flow (%) =	3.1	4.0	3.9	3.0	31.8	
Area (sq ft) =	10.8	9.6	15.7	21.0	58.3	
Vel (ft/s) =	3.28	4.81	2.86	1.64	6.27	
Depth (ft) =	.89	1.91	.77	.32	1.91	

Station (ft) =	10013.5	10169.2	10183.3	10191.9	10212.1	10221.0
Flow (%) =	4.9	22.7	22.3	4.2	.2	
Area (sq ft) =	23.1	33.5	29.4	14.3	1.8	
Vel (ft/s) =	2.42	7.81	8.73	3.40	1.09	
Depth (ft) =	.15	2.37	3.41	.71	.21	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.842.

STATUS: (3280) For cross-section 15.84, ends have been extended vertically 1.55 feet in order to calculate the hydraulic cross-section properties.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.11

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9907.00
Right Encroachment Station (ft, STENCR)	10339.00
Encroachment Method (TYPE)	1
Width or Percent Target	432.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
---	---	---	---	---	---	---	---
15.842	.080	.060	.065	8.95	1757.55	.00	1757.28
.006325	505	495	495	1757.66	.11	5.78	.04
477.05	32	143	296	.00	1756.80	1757.50	6
1150	37	470	642	432.0	9907.00	10339.00	0
1.49	1.17	3.27	2.17	.000	164.5	1748.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.842
Total Discharge (cfs, Q)	1150
Computed Water Surface Elevation (ft MSL, CWSEL)	1757.55

Station (ft) =	9907.0	9960.2	10026.9	10159.0	10167.2	10174.1
Flow (%) =	3.3	40.9	5.1	3.8	6.2	
Area (sq ft) =	32.0	143.8	60.0	15.2	18.6	
Vel (ft/s) =	1.17	3.27	.98	2.90	3.81	
Depth (ft) =	.60	2.16	.45	1.85	2.70	

Station (ft) =	10174.1	10180.2	10191.4	10210.5	10231.5	10242.9
Flow (%) =	3.4	4.4	3.6	3.8	8.7	
Area (sq ft) =	12.5	18.5	20.2	21.5	27.8	
Vel (ft/s) =	3.16	2.75	2.06	2.02	3.61	
Depth (ft) =	2.05	1.65	1.06	1.02	2.43	

Station (ft) =	10242.9	10248.9	10271.8	10316.1	10339.0
Flow (%) =	5.0	3.5	5.8	2.4	
Area (sq ft) =	15.6	21.7	44.8	19.9	
Vel (ft/s) =	3.67	1.87	1.50	1.39	
Depth (ft) =	2.60	.95	1.01	.87	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.890.

STATUS: (3265) Divided flow.

STATUS: (3280) For cross-section 15.89, ends have been extended vertically 2.45 feet in order to calculate the hydraulic cross-section properties.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .48

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9910.00
Right Encroachment Station (ft, STENCR)	10308.00
Encroachment Method (TYPE)	1
Width or Percent Target	398.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.890	.080	.060	.080	8.45	1760.45	.00	1760.61
.027683	250	250	275	1760.75	.29	3.03	.05
479.39	26	129	142	.00	1760.50	1760.00	3
1150	53	662	434	358.3	9910.00	10296.87	0
1.50	1.98	5.11	3.04	.000	166.9	1752.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.890
Total Discharge (cfs, Q)	1150
Computed Water Surface Elevation (ft MSL, CWSEL)	1760.45

Station (ft) =	9910.0	9948.1	9972.0	10068.3	10099.9	10111.2
Flow (%) =	4.2	.5	57.6	5.9	3.0	
Area (sq ft) =	22.3	4.7	129.5	24.8	11.3	
Vel (ft/s) =	2.15	1.14	5.11	2.72	3.09	
Depth (ft) =	.58	.20	1.41	.79	1.00	

Station (ft) =	10111.2	10170.2	10177.1	10223.5	10236.9	10241.3
Flow (%) =	6.2	4.0	3.4	6.5	3.6	
Area (sq ft) =	23.3	11.0	20.0	18.8	8.6	
Vel (ft/s) =	3.04	4.16	1.96	3.96	4.82	
Depth (ft) =	.40	1.60	.43	1.40	1.95	

Station (ft) =	10241.3	10255.7	10296.9
Flow (%) =	3.3	2.0	
Area (sq ft) =	12.7	12.3	
Vel (ft/s) =	2.96	1.83	
Depth (ft) =	.88	.30	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.898.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.70

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9919.00
Right Encroachment Station (ft, STENCR)	10337.00
Encroachment Method (TYPE)	1
Width or Percent Target	418.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.898	.080	.062	.080	7.03	1761.33	.00	1761.13
.009629	45	45	45	1761.45	.11	.69	.02
479.79	52	177	240	.00	1760.80	1760.50	1
1150	85	582	482	418.0	9919.00	10337.00	0
1.51	1.61	3.28	2.00	.000	167.3	1754.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.898
Total Discharge (cfs, Q)	1150
Computed Water Surface Elevation (ft MSL, CWSEL)	1761.33

Station (ft) =	9919.0	9949.4	9973.6	9982.7	10051.2	10087.6
Flow (%) =	3.5	3.2	.7	41.9	8.7	
Area (sq ft) =	25.2	21.6	6.1	130.7	46.6	
Vel (ft/s) =	1.60	1.69	1.40	3.69	2.15	
Depth (ft) =	.83	.89	.68	1.91	1.28	

Station (ft) =	10087.6	10104.5	10153.9	10166.2	10192.2	10228.4
Flow (%) =	3.5	4.0	6.2	4.0	4.6	
Area (sq ft) =	19.9	29.5	24.8	25.5	31.7	
Vel (ft/s) =	2.04	1.57	2.88	1.81	1.67	
Depth (ft) =	1.18	.60	2.02	.98	.88	

Station (ft) =	10228.4	10265.3	10292.1	10298.3	10320.3	10337.0
Flow (%) =	4.6	7.0	3.4	4.0	.5	
Area (sq ft) =	32.1	34.8	13.2	23.3	6.0	
Vel (ft/s) =	1.66	2.32	3.00	1.98	.92	
Depth (ft) =	.87	1.30	2.13	1.06	.36	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 15.932.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9913.00
Right Encroachment Station (ft, STENCR)	10358.00
Encroachment Method (TYPE)	1
Width or Percent Target	445.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
15.932	.080	.060	.080	3.39	1763.09	.00	1763.01
.010783	195	180	175	1763.29	.20	1.82	.03
481.60	7	155	250	.00	1762.70	1762.00	3
1150	6	687	455	445.0	9913.00	10358.00	0
1.52	.90	4.41	1.82	.000	169.1	1759.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	15.932
Total Discharge (cfs, Q)	1150
Computed Water Surface Elevation (ft MSL, CWSEL)	1763.09

Station (ft) =	9913.0	9937.6	10006.6	10033.3	10096.6	10137.8
Flow (%) =	.6	59.8	4.8	3.3	6.4	
Area (sq ft) =	7.5	156.0	27.7	30.8	35.7	
Vel (ft/s) =	.90	4.41	1.98	1.23	2.06	
Depth (ft) =	.30	2.26	1.04	.49	.87	

Station (ft) =	10137.8	10150.9	10211.5	10279.5	10296.6	10309.5
Flow (%) =	4.7	3.1	3.7	4.0	4.0	
Area (sq ft) =	20.6	24.6	33.6	20.5	18.7	
Vel (ft/s) =	2.61	1.44	1.28	2.22	2.47	
Depth (ft) =	1.57	.41	.49	1.20	1.45	

Station (ft) =	10309.5	10332.3	10358.0
Flow (%) =	3.5	2.2	
Area (sq ft) =	21.6	16.2	
Vel (ft/s) =	1.86	1.54	
Depth (ft) =	.95	.63	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 16.021.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9878.00
Right Encroachment Station (ft, STENCR)	10148.00
Encroachment Method (TYPE)	1
Width or Percent Target	270.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.021	.080	.060	.080	4.06	1769.06	.00	1769.03
.015529	515	470	450	1769.37	.31	6.04	.03
485.45	95	154	54	.00	1768.70	1768.30	4
1150	277	787	84	270.0	9878.00	10148.00	0
1.55	2.90	5.10	1.56	.000	172.9	1765.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.021
Total Discharge (cfs, Q)	1150
Computed Water Surface Elevation (ft MSL, CWSEL)	1769.06

Station (ft) =	9878.0	9914.2	9928.9	9932.8	9938.1	9944.9
Flow (%) =	4.3	5.7	4.5	4.2	3.0	
Area (sq ft) =	26.4	21.1	11.1	12.2	10.9	
Vel (ft/s) =	1.87	3.11	4.66	3.99	3.17	
Depth (ft) =	.73	1.44	2.86	2.31	1.61	

Station (ft) =	9944.9	9964.6	10036.6	10064.6	10146.8	10148.0
Flow (%) =	2.4	68.5	3.7	3.6	.0	
Area (sq ft) =	13.9	154.4	21.8	32.2	.1	
Vel (ft/s) =	1.99	5.10	1.96	1.29	.50	
Depth (ft) =	.71	2.14	.78	.39	.10	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 16.112.

STATUS: (3280) For cross-section 16.11, ends have been extended vertically 2.63 feet in order to calculate the hydraulic cross-section properties.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.95

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9917.00
Right Encroachment Station (ft, STENCR)	10236.00
Encroachment Method (TYPE)	1
Width or Percent Target	319.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.112	.080	.060	.080	5.53	1774.63	.00	1774.48
.009462	510	480	475	1774.87	.24	5.49	.01
490.12	70	214	249	.00	1774.00	1774.00	6
1750	162	1022	564	319.0	9917.00	10236.00	0
1.59	2.30	4.77	2.26	.000	176.2	1769.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.112
Total Discharge (cfs, Q)	1750
Computed Water Surface Elevation (ft MSL, CWSEL)	1774.63

Station (ft) =	9917.0	9941.3	9969.8	10045.6	10088.5	10109.1
Flow (%) =	5.7	3.6	58.5	7.1	7.2	
Area (sq ft) =	39.1	31.6	214.5	55.1	42.9	
Vel (ft/s) =	2.54	2.01	4.77	2.25	2.94	
Depth (ft) =	1.61	1.11	2.83	1.29	2.08	

Station (ft) =	10109.1	10184.8	10212.5	10236.0
Flow (%) =	12.6	3.3	2.1	
Area (sq ft) =	100.8	29.9	20.7	
Vel (ft/s) =	2.19	1.90	1.77	
Depth (ft) =	1.33	1.08	.88	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 16.164.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9926.00
Right Encroachment Station (ft, STENCR)	10252.00
Encroachment Method (TYPE)	1
Width or Percent Target	326.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.164	.080	.060	.064	5.77	1778.37	.00	1777.74
.017579	240	275	315	1778.94	.57	3.97	.10
493.65	57	169	295	.00	1777.40	1778.00	3
2995	147	1151	1696	326.0	9926.00	10252.00	0
1.60	2.58	6.78	5.73	.000	178.4	1772.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.164
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1778.37

Station (ft) =	9926.0	9964.6	9978.2	10033.1	10153.2	10184.7
Flow (%) =	3.9	1.1	38.4	4.5	6.0	
Area (sq ft) =	43.9	13.2	169.9	60.2	46.1	
Vel (ft/s) =	2.63	2.41	6.78	2.26	3.87	
Depth (ft) =	1.14	.97	3.09	.50	1.47	

Station (ft) =	10184.7	10194.5	10204.3	10210.6	10221.8	10251.6
Flow (%) =	9.9	14.8	9.0	8.5	3.9	
Area (sq ft) =	37.4	47.2	29.4	36.0	39.1	
Vel (ft/s) =	7.94	9.37	9.15	7.06	3.02	
Depth (ft) =	3.82	4.82	4.67	3.22	1.31	

Station (ft) =	10251.6	10252.0
Flow (%) =	.0	
Area (sq ft) =	.4	
Vel (ft/s) =	1.06	
Depth (ft) =	.97	

STATUS: Analyzing cross-section reach 16.254.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.49

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9926.00
Right Encroachment Station (ft, STENCR)	10080.00
Encroachment Method (TYPE)	1
Width or Percent Target	154.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.254	.080	.060	.080	6.91	1783.81	.00	1783.39
.007901	475	475	485	1784.35	.54	5.41	.00
499.46	4	480	49	.00	1782.90	1782.10	4
2995	5	2887	101	154.0	9926.00	10080.00	0
1.63	1.17	6.01	2.06	.000	181.0	1776.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.254
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1783.81

Station (ft) =	9926.0	9933.9	10039.8	10044.7	10049.6	10057.9
Flow (%) =	.2	96.4	.7	.8	1.0	
Area (sq ft) =	4.9	480.9	8.6	9.6	13.4	
Vel (ft/s) =	1.17	6.01	2.41	2.58	2.26	
Depth (ft) =	.62	4.54	1.76	1.96	1.61	

Station (ft) =	10057.9	10069.5	10080.0
Flow (%) =	.6	.3	
Area (sq ft) =	11.2	6.5	
Vel (ft/s) =	1.61	1.16	
Depth (ft) =	.96	.62	

STATUS: (1490) NH card used.

STATUS: Analyzing cross-section reach 16.345.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9889.00
Right Encroachment Station (ft, STENCR)	10011.00
Encroachment Method (TYPE)	1
Width or Percent Target	122.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.345	.056	.050	.000	5.54	1787.94	.00	1788.08
.010050	480	480	485	1788.68	.74	4.26	.06
504.86	296	147	0	.00	1784.20	1789.00	3
2995	1831	1163	0	120.0	9889.69	10009.64	0
1.65	6.18	7.87	.00	.000	182.5	1782.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.345
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1787.94

Station (ft) =	9889.7	9907.9	9917.6	9926.6	9933.2	9937.3
Flow (%) =	6.9	4.9	5.5	5.4	4.2	
Area (sq ft) =	39.7	25.6	26.9	23.4	16.8	
Vel (ft/s) =	5.23	5.69	6.16	6.92	7.50	
Depth (ft) =	2.18	2.64	2.99	3.54	4.09	

Station (ft) =	9937.3	9947.3	9956.2	9966.7	9977.8	10010.5
Flow (%) =	12.4	9.6	6.0	6.2	38.8	
Area (sq ft) =	45.4	37.3	39.8	41.5	147.8	
Vel (ft/s) =	8.17	7.73	4.53	4.49	7.87	
Depth (ft) =	4.54	4.19	3.79	3.74	4.64	

STATUS: Analyzing cross-section reach 16.421.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9935.00
Right Encroachment Station (ft, STENCR)	10053.00
Encroachment Method (TYPE)	1
Width or Percent Target	118.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.421	.080	.050	.080	5.13	1793.53	1793.53	1793.42
.021949	410	400	400	1795.05	1.52	5.77	.23
508.54	66	227	53	.00	1791.00	1791.90	6
2995	338	2437	218	118.0	9935.00	10053.00	11
1.66	5.05	10.73	4.06	.000	183.6	1788.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.421
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1793.53

Station (ft) =	9935.0	9942.8	9949.6	9954.6	9963.7	10022.7
Flow (%) =	1.0	3.3	2.8	4.2	81.4	
Area (sq ft) =	9.5	18.6	14.9	24.0	227.2	
Vel (ft/s) =	3.02	5.34	5.68	5.25	10.73	
Depth (ft) =	1.22	2.73	2.98	2.63	3.85	

Station (ft) =	10022.7	10029.9	10038.9	10053.0
Flow (%) =	2.0	3.0	2.3	
Area (sq ft) =	13.9	19.6	20.3	
Vel (ft/s) =	4.26	4.63	3.38	
Depth (ft) =	1.93	2.18	1.44	

STATUS: Analyzing cross-section reach 16.481.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.95

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9853.00
Right Encroachment Station (ft, STENCR)	10063.00
Encroachment Method (TYPE)	1
Width or Percent Target	210.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.481	.080	.065	.080	6.67	1798.07	.00	1797.22
.005796	290	315	365	1798.36	.29	3.19	.12
512.60	319	314	140	.00	1795.10	1795.00	4
2995	949	1623	421	210.0	9853.00	10063.00	0
1.68	2.97	5.17	3.00	.000	184.8	1791.40	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.481
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1798.07

Station (ft) =	9853.0	9863.3	9878.9	9896.4	9908.3	9923.4
Flow (%) =	3.0	5.7	5.7	3.5	4.3	
Area (sq ft) =	34.3	53.4	55.5	35.4	44.1	
Vel (ft/s) =	2.65	3.21	3.05	2.92	2.89	
Depth (ft) =	3.33	3.42	3.17	2.97	2.92	

Station (ft) =	9923.4	9935.9	9946.2	9955.7	10016.6	10028.4
Flow (%) =	3.8	3.1	2.7	54.2	4.0	
Area (sq ft) =	38.4	31.1	27.8	314.3	38.6	
Vel (ft/s) =	2.99	2.96	2.89	5.17	3.12	
Depth (ft) =	3.07	3.02	2.92	5.16	3.27	

Station (ft) =	10028.4	10037.8	10050.8	10063.0
Flow (%) =	3.4	4.3	2.3	
Area (sq ft) =	32.2	41.9	28.1	
Vel (ft/s) =	3.21	3.08	2.46	
Depth (ft) =	3.42	3.22	2.30	

STATUS: Analyzing cross-section reach 16.551.

STATUS: (3280) For cross-section 16.55, ends have been extended vertically .06 feet in order to calculate the hydraulic cross-section properties.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (7185) Critical depth has been crossed, therefore critical depth has been assumed for the current cross-section.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9979.00
Right Encroachment Station (ft, STENCR)	10089.00
Encroachment Method (TYPE)	1
Width or Percent Target	110.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.551	.065	.050	.080	4.86	1801.16	1801.16	1800.95
.025505	380	370	335	1802.67	1.51	3.90	.37
517.23	0	249	77	.00	1800.90	1799.40	3
2995	0	2601	393	110.0	9979.00	10089.00	19
1.69	.04	10.41	5.10	.000	186.2	1796.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 16.551
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1801.16

Station (ft) =	9979.0	10054.7	10059.7	10065.5	10073.8	10082.5
Flow (%) =	86.9	1.6	2.7	3.8	3.2	
Area (sq ft) =	250.0	10.3	14.5	20.8	19.2	
Vel (ft/s) =	10.41	4.77	5.47	5.47	5.02	
Depth (ft) =	3.31	2.06	2.51	2.51	2.21	

Station (ft) =	10082.5	10088.8	10089.0
Flow (%) =	1.8	.0	
Area (sq ft) =	12.0	.4	
Vel (ft/s) =	4.56	.94	
Depth (ft) =	1.91	1.76	

STATUS: Analyzing cross-section reach 16.628.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 2.09

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9837.00
Right Encroachment Station (ft, STENCR) 10097.00
Encroachment Method (TYPE) 1
Width or Percent Target 260.000

16.628	.080	.050	.075	5.68	1806.68	.00	1805.69
.005835	455	410	365	1807.14	.46	4.36	.11
522.14	244	310	159	.00	1803.50	1803.80	5
2995	596	1993	405	260.0	9837.00	10097.00	0
1.71	2.44	6.42	2.54	.000	187.9	1801.00	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.628
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1806.68

Station (ft) =	9837.0	9881.5	9898.7	9918.7	9935.1	9954.4
Flow (%) =	4.1	3.2	4.2	3.8	4.6	
Area (sq ft) =	63.2	38.8	48.7	42.6	50.9	
Vel (ft/s) =	1.96	2.44	2.57	2.68	2.72	
Depth (ft) =	1.42	2.25	2.43	2.60	2.64	

Station (ft) =	9954.4	10019.4	10041.8	10071.5	10097.0
Flow (%) =	66.6	6.2	4.8	2.5	
Area (sq ft) =	310.7	62.4	59.5	37.6	
Vel (ft/s) =	6.42	3.00	2.43	1.95	
Depth (ft) =	4.78	2.79	2.00	1.47	

STATUS: Analyzing cross-section reach 16.714.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .63

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9933.00
Right Encroachment Station (ft, STENCR)	10060.00
Encroachment Method (TYPE)	1
Width or Percent Target	127.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
---	---	---	---	---	---	---	---
16.714	.080	.050	.080	4.71	1810.21	.00	1810.68
.014520	380	450	505	1811.25	1.05	3.94	.18
527.87	7	288	106	.00	1808.50	1808.00	3
2995	19	2525	449	124.0	9933.00	10057.02	0
1.73	2.48	8.76	4.24	.000	189.9	1805.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 16.714
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1810.21

Station (ft) =	9933.0	9939.7	10014.5	10022.6	10032.0	10040.5
Flow (%) =	.7	84.3	2.3	2.9	3.6	
Area (sq ft) =	8.0	288.4	17.9	22.2	23.9	
Vel (ft/s) =	2.48	8.76	3.80	3.97	4.45	
Depth (ft) =	1.19	3.86	2.21	2.36	2.81	

Station (ft) =	10040.5	10047.1	10051.9	10056.3
Flow (%) =	3.5	2.2	.5	
Area (sq ft) =	21.2	14.5	6.2	
Vel (ft/s) =	4.87	4.65	2.55	
Depth (ft) =	3.21	3.01	1.41	

STATUS: Analyzing cross-section reach 16.788.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL) 9893.00
Right Encroachment Station (ft, STENCR) 10041.00
Encroachment Method (TYPE) 1
Width or Percent Target 148.000

16.788	.080	.055	.080	6.27	1815.17	.00	1814.81
.009865	410	390	390	1815.92	.75	4.64	.03
531.88	116	343	27	.00	1812.60	1813.20	4
2995	386	2548	60	146.2	9894.83	10041.00	0
1.74	3.31	7.42	2.22	.000	191.1	1808.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO) 16.788
Total Discharge (cfs, Q) 2995
Computed Water Surface Elevation (ft MSL, CWSEL) 1815.17

Station (ft) =	9894.8	9899.4	9904.5	9910.4	9915.4	9923.3
Flow (%) =	.0	.7	1.5	1.1	2.3	
Area (sq ft) =	1.5	8.5	13.7	10.6	19.9	
Vel (ft/s) =	.88	2.48	3.22	3.04	3.41	
Depth (ft) =	.34	1.67	2.32	2.12	2.52	

Station (ft) =	9923.3	9935.7	9947.1	10021.0	10030.2	10041.0
Flow (%) =	3.9	3.4	85.1	1.2	.8	
Area (sq ft) =	33.1	29.3	343.4	14.5	12.7	
Vel (ft/s) =	3.55	3.46	7.42	2.49	1.91	
Depth (ft) =	2.67	2.57	4.65	1.57	1.17	

STATUS: Analyzing cross-section reach 16.861.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9981.00
Right Encroachment Station (ft, STENCR)	10108.00
Encroachment Method (TYPE)	1
Width or Percent Target	127.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.861	.000	.045	.080	6.01	1818.91	.00	1819.00
.010223	365	390	435	1819.94	1.03	3.93	.08
535.97	0	310	108	.00	1819.60	1816.50	2
2995	0	2662	332	125.1	9982.85	10108.00	0
1.76	.00	8.58	3.06	.000	192.3	1812.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.861
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1818.91

Station (ft) =	9982.9	10055.6	10064.1	10075.3	10083.8	10091.0
Flow (%) =	88.9	2.1	2.5	1.7	1.4	
Area (sq ft) =	310.5	19.5	24.1	17.0	14.4	
Vel (ft/s) =	8.58	3.27	3.13	2.98	2.98	
Depth (ft) =	4.27	2.30	2.15	2.00	2.00	

Station (ft) =	10091.0	10097.9	10103.3	10108.0
Flow (%) =		1.8	1.2	.4
Area (sq ft) =		16.2	11.3	6.2
Vel (ft/s) =		3.31	3.04	1.97
Depth (ft) =		2.35	2.10	1.32

STATUS: Analyzing cross-section reach 16.936.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9960.00
Right Encroachment Station (ft, STENCR)	10032.00
Encroachment Method (TYPE)	1
Width or Percent Target	72.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
16.936	.000	.045	.070	6.12	1823.22	.00	1823.30
.015875	445	395	345	1825.14	1.91	4.93	.26
539.05	0	266	7	.00	1823.30	1821.90	2
2995	0	2973	21	65.6	9966.35	10032.00	0
1.77	.00	11.14	2.86	.000	193.2	1817.10	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	16.936
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1823.22

Station (ft) =	9966.4	10025.4	10031.5	10032.0
Flow (%) =		99.3	.7	.0
Area (sq ft) =		266.9	7.1	.5
Vel (ft/s) =		11.14	2.97	1.29
Depth (ft) =		4.52	1.17	1.04

STATUS: Analyzing cross-section reach 17.011.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.65

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9910.00
Right Encroachment Station (ft, STENCR)	10080.00
Encroachment Method (TYPE)	1
Width or Percent Target	170.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17.011	.080	.045	.080	6.76	1828.06	.00	1827.64
.005834	345	395	445	1828.83	.77	3.58	.11
542.67	75	356	87	.00	1826.00	1825.80	2
2995	124	2658	212	170.0	9910.00	10080.00	0
1.78	1.65	7.46	2.42	.000	194.2	1821.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	17.011
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1828.06

Station (ft) =	9910.0	9970.0	10039.0	10045.4	10052.9	10059.1
Flow (%) =	4.1	88.8	1.1	1.4	1.3	
Area (sq ft) =	75.5	356.4	14.1	16.9	14.9	
Vel (ft/s) =	1.65	7.46	2.41	2.44	2.55	
Depth (ft) =	1.26	5.17	2.21	2.26	2.41	

Station (ft) =	10059.1	10068.0	10073.5	10079.5	10080.0
Flow (%) =	2.0	1.0	.4	.0	
Area (sq ft) =	22.3	12.1	7.3	.2	
Vel (ft/s) =	2.62	2.39	1.59	.57	
Depth (ft) =	2.51	2.21	1.21	.46	

STATUS: Analyzing cross-section reach 17.046.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9935.00
Right Encroachment Station (ft, STENCR)	10037.00
Encroachment Method (TYPE)	1
Width or Percent Target	102.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17.046	.080	.045	.080	5.89	1829.09	.00	1828.98
.006797	210	185	180	1830.05	.96	1.17	.06
544.66	35	359	11	.00	1824.70	1827.10	3
2995	98	2877	18	102.0	9935.00	10037.00	0
1.79	2.77	8.00	1.60	.000	194.8	1823.20	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	17.046
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1829.09

Station (ft) =	9935.0	9941.1	9948.6	9955.2	10025.8	10036.5
Flow (%) =	.0	.7	2.5	96.1	.6	
Area (sq ft) =	2.0	11.2	22.4	359.5	11.7	
Vel (ft/s) =	.73	1.96	3.36	8.00	1.61	
Depth (ft) =	.33	1.49	3.39	5.09	1.09	

STATUS: Analyzing cross-section reach 17.135.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3685) 20 trials attempted in balancing assumed water surface elevation (WSEL) and computed water surface elevation (CWSEL).

WARNING: (3693) It is probable that critical depth has been crossed.

WARNING: (3720) Critical depth has been assumed.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9962.00
Right Encroachment Station (ft, STENCR)	10056.00
Encroachment Method (TYPE)	1
Width or Percent Target	94.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17.135	.080	.045	.080	7.68	1835.18	1835.18	1835.37
.012436	495	470	470	1837.24	2.05	4.23	.33
548.62	25	217	81	.00	1831.80	1832.40	20
2995	77	2644	272	91.3	9964.66	10056.00	11
1.80	3.06	12.18	3.34	.000	195.9	1827.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	17.135
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1835.18

Station (ft) =	9964.7	9970.3	9982.3	10016.3	10025.1	10040.2
Flow (%) =	.0	2.6	88.3	3.0	3.7	
Area (sq ft) =	1.6	23.8	217.0	22.7	32.2	
Vel (ft/s) =	.91	3.21	12.18	3.90	3.43	
Depth (ft) =	.29	1.98	6.38	2.58	2.13	

Station (ft) =	10040.2	10056.0
Flow (%) =	2.5	
Area (sq ft) =	26.6	
Vel (ft/s) =	2.76	
Depth (ft) =	1.69	

STATUS: Analyzing cross-section reach 17.200.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9942.00
Right Encroachment Station (ft, STENCR)	10110.00
Encroachment Method (TYPE)	1
Width or Percent Target	168.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17.200	.085	.050	.085	6.65	1839.95	.00	1839.47
.007648	365	345	330	1840.67	.72	3.30	.13
552.13	63	251	257	.00	1836.80	1836.80	2
2995	161	2011	822	168.0	9942.00	10110.00	0
1.82	2.54	8.00	3.20	.000	196.9	1833.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	17.200
Total Discharge (cfs, Q)	2995
Computed Water Surface Elevation (ft MSL, CWSEL)	1839.95

Station (ft) =	9942.0	9976.8	10022.6	10040.7	10051.9	10065.0
Flow (%) =	5.4	67.2	4.7	3.2	5.1	
Area (sq ft) =	63.4	251.6	47.9	31.4	44.6	
Vel (ft/s) =	2.54	8.00	2.93	3.04	3.46	
Depth (ft) =	1.82	5.49	2.65	2.80	3.40	

Station (ft) =	10065.0	10076.4	10086.2	10098.6	10110.0
Flow (%) =	5.2	4.1	3.4	1.7	
Area (sq ft) =	42.2	34.8	34.1	22.2	
Vel (ft/s) =	3.66	3.56	2.99	2.34	
Depth (ft) =	3.70	3.55	2.75	1.95	

Contraction Coefficient (CCHV)	.100
Expansion Coefficient (CEHV)	.300

STATUS: Analyzing cross-section reach 17.262.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .65

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9955.00
Right Encroachment Station (ft, STENCR)	10043.00
Encroachment Method (TYPE)	1
Width or Percent Target	88.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17.262	.080	.050	.080	5.46	1842.96	.00	1842.73
.015883	300	325	355	1844.32	1.35	3.46	.19
555.47	7	296	1	.00	1841.90	1842.50	2
2785	14	2769	1	88.0	9955.00	10043.00	0
1.82	1.85	9.36	1.07	.000	197.9	1837.50	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	17.262
Total Discharge (cfs, Q)	2785
Computed Water Surface Elevation (ft MSL, CWSEL)	1842.96

Station (ft) =	9955.0	9966.1	10039.9	10043.0
Flow (%) =	.5	99.4	.0	
Area (sq ft) =	7.8	296.0	1.0	
Vel (ft/s) =	1.87	9.36	1.07	
Depth (ft) =	.70	4.01	.33	

STATUS: Analyzing cross-section reach 17.319.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9970.00
Right Encroachment Station (ft, STENCR)	10065.00
Encroachment Method (TYPE)	1
Width or Percent Target	95.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
---	---	---	---	---	---	---	---
17.319	.080	.050	.080	6.27	1846.87	.00	1846.36
.008269	260	300	300	1847.71	.84	3.34	.05
557.93	21	319	73	.00	1843.60	1843.40	2
2785	59	2469	256	95.0	9970.00	10065.00	0
1.84	2.81	7.73	3.49	.000	198.5	1840.60	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	17.319
Total Discharge (cfs, Q)	2785
Computed Water Surface Elevation (ft MSL, CWSEL)	1846.87

Station (ft) =	9970.0	9977.1	10042.5	10053.2	10061.4	10065.0
Flow (%) =	2.1	88.7	4.7	3.5	1.1	
Area (sq ft) =	21.0	319.3	35.0	26.4	12.2	
Vel (ft/s) =	2.81	7.73	3.72	3.68	2.44	
Depth (ft) =	2.96	4.88	3.27	3.22	3.38	

STATUS: Analyzing cross-section reach 17.364.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) .69

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9955.00
Right Encroachment Station (ft, STENCR)	10051.00
Encroachment Method (TYPE)	1
Width or Percent Target	96.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
17.364	.080	.050	.080	5.96	1849.26	.00	1849.25
.017122	200	240	260	1850.64	1.38	2.77	.16
559.97	18	262	41	.00	1847.30	1847.20	2
2785	58	2565	161	96.0	9955.00	10051.00	0
1.84	3.13	9.77	3.87	.000	199.0	1843.30	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	17.364
Total Discharge (cfs, Q)	2785
Computed Water Surface Elevation (ft MSL, CWSEL)	1849.26

Station (ft) =	9955.0	9966.5	10031.7	10041.0	10051.0
Flow (%) =	2.1	92.1	3.2	2.6	
Area (sq ft) =	18.7	262.6	21.0	20.6	
Vel (ft/s) =	3.13	9.77	4.18	3.55	
Depth (ft) =	1.62	4.03	2.26	2.06	

Contraction Coefficient (CCHV)	.300
Expansion Coefficient (CEHV)	.500

STATUS: Analyzing cross-section reach 17.425.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO)	1.49

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9967.00
Right Encroachment Station (ft, STENCR)	10089.00
Encroachment Method (TYPE)	1
Width or Percent Target	122.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
---	---	---	---	---	---	---	---
17.425	.080	.050	.080	7.88	1853.58	.00	1853.14
.007700	300	320	325	1854.36	.78	3.54	.18
562.83	3	296	154	.00	1852.00	1850.30	2
2785	5	2282	497	122.0	9967.00	10089.00	0
1.86	1.48	7.69	3.23	.000	199.8	1845.70	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	17.425
Total Discharge (cfs, Q)	2785
Computed Water Surface Elevation (ft MSL, CWSEL)	1853.58

Station (ft) =	9967.0	9970.2	10025.9	10035.0	10045.0	10055.3
Flow (%) =	.2	81.9	3.6	3.7	4.2	
Area (sq ft) =	3.4	296.9	28.4	30.3	33.2	
Vel (ft/s) =	1.48	7.69	3.48	3.41	3.56	
Depth (ft) =	1.06	5.33	3.13	3.03	3.23	

Station (ft) =	10055.3	10065.0	10073.2	10081.6	10088.6	10089.0
Flow (%) =	3.8	1.8	.6	.2	.0	
Area (sq ft) =	30.3	18.3	9.5	4.0	.2	
Vel (ft/s) =	3.48	2.76	1.76	1.13	.58	
Depth (ft) =	3.13	2.23	1.13	.58	.51	

STATUS: Analyzing cross-section reach 17.476.

STATUS: (3301) The velocity head difference for current and previous cross-sections exceeded the allowable specified by HVINS.

WARNING: (3302) Conveyance change is outside of acceptable range.

Upstream to Downstream Conveyance Ratio (KRATIO) 1.73

STATUS: (3470) Encroachment computation information follows:

Left Encroachment Station (ft, STENCL)	9890.00
Right Encroachment Station (ft, STENCR)	10037.00
Encroachment Method (TYPE)	1
Width or Percent Target	147.000

SECNO	XNL	XNCH	XNR	DEPTH	CWSEL	CRIWS	WSELK
SLOPE	XLOBL	XLCH	XLOBR	EG	HV	HL	OLOSS
VOL	ALOB	ACH	AROB	CORAR	LTBNK	RTBNK	ITRIAL
Q	QLOB	QCH	QROB	TOPWD	SSTA	ENDST	IDC
TIME	VLOB	VCH	VROB	WTN	TWA	ELMIN	ICONT
---	---	---	---	---	---	---	---
17.476	.080	.050	.080	6.44	1855.34	.00	1855.02
.002568	270	270	270	1855.62	.28	1.11	.15
566.32	8	642	19	.00	1851.50	1851.50	3
2785	10	2746	27	147.0	9890.00	10037.00	0
1.87	1.24	4.28	1.43	.000	200.6	1848.90	0

FLOW DISTRIBUTION :

Cross-Section Number (SECNO)	17.476
Total Discharge (cfs, Q)	2785
Computed Water Surface Elevation (ft MSL, CWSEL)	1855.34

Station (ft) =	9890.0	9893.7	10027.4	10037.0
Flow (%) =	.4	98.6	1.0	
Area (sq ft) =	8.4	642.1	19.6	
Vel (ft/s) =	1.24	4.28	1.43	
Depth (ft) =	2.27	4.80	2.04	

SPECIAL NOTE :

An asterisk (*) to the left of the cross-section number indicates a special note is present in the SUMMARY OF WARNING AND STATUS MESSAGES section.

SUMMARY PRINTOUT TABLE 110 : TRILBY WASH; GRAND AVENUE TO C.A.P.
MAIN CHANNEL; ENCROACHED
P&D No. 10320.00; FCD No. 90-24

	Cross-Section Number SECNO	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Energy Gradient Elevation (ft MSL) EG	Water Surface Top Width (ft) TOPWID	Left Overbank Flow (cfs) QLOB	Channel Flow (cfs) QCH	Right Overbank Flow (cfs) QROB	Encroach. Target Requested PERENC	Left Encroach. Station (ft) STENCL	Left Bank Station (ft) STCHL	Right Bank Station (ft) STCHR
*	10.445	1545.51	.00	1546.98	135.61	.00	3851.00	.00	.00	.00	9932.19	10067.81
*	10.445	1545.51	.00	1546.98	135.61	.00	3851.00	.00	136.00	9932.00	9932.19	10067.81
*	10.450	1547.69	.00	1549.16	135.61	.00	3851.00	.00	.00	.00	9932.19	10067.81
*	10.450	1547.69	.00	1549.16	135.61	.00	3851.00	.00	136.00	9932.00	9932.19	10067.81
	10.468	1548.36	.00	1549.37	135.61	.00	3851.00	.00	.00	.00	9932.19	10067.81
	10.468	1548.36	.00	1549.37	135.61	.00	3851.00	.00	136.00	9932.00	9932.19	10067.81
*	10.473	1549.02	.00	1549.54	158.71	.00	3851.00	.00	.00	.00	9920.64	10079.36
*	10.473	1549.02	.00	1549.54	158.71	.00	3851.00	.00	160.00	9920.00	9920.64	10079.36
*	10.474	1549.00	.00	1549.63	179.36	29.99	3782.93	38.08	.00	.00	9919.60	10079.90
*	10.474	1549.00	.00	1549.63	179.36	29.99	3782.94	38.07	179.40	9910.90	9919.60	10079.90
	10.479	1549.51	.00	1549.89	215.30	17.63	3816.86	16.52	.00	.00	9901.80	10103.20
	10.479	1549.51	.00	1549.89	215.10	17.72	3816.68	16.60	215.10	9895.40	9901.80	10103.20
	10.528	1550.96	.00	1551.30	374.20	1232.85	2546.75	71.40	.00	.00	9960.90	10060.70
	10.528	1551.08	.12	1551.76	170.00	437.52	3360.09	53.39	170.00	9910.00	9960.90	10060.70
	10.592	1552.73	.00	1552.92	499.71	978.35	1421.55	1451.10	.00	.00	9970.40	10029.00
	10.592	1553.63	.90	1554.03	188.00	1096.26	2104.14	650.60	188.00	9886.00	9970.40	10029.00
	10.683	1555.12	.00	1555.64	263.61	646.21	2706.53	498.27	.00	.00	9942.10	10023.60
	10.683	1556.03	.90	1556.49	178.60	321.89	2912.84	616.27	178.60	9902.00	9942.10	10023.60
	10.761	1557.99	.00	1558.60	179.20	207.04	3541.64	102.32	179.20	9942.50	9982.00	10092.70
	10.761	1558.19	.20	1558.74	179.00	219.89	3514.67	116.43	179.00	9943.00	9982.00	10092.70
	10.815	1559.73	.00	1560.17	207.15	188.55	3462.68	199.77	.00	.00	9972.90	10083.60

	Cross-Section Number SECNO	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Energy Gradient Elevation (ft MSL) EG	Water Surface Top Width (ft) TOPWID	Left Overbank Flow (cfs) QLOB	Channel Flow (cfs) QCH	Right Overbank Flow (cfs) QROB	Encroach. Target Requested PERENC	Left Encroach. Station (ft) STENCL	Left Bank Station (ft) STCHL	Right Bank Station (ft) STCHR
	10.815	1559.76	.03	1560.27	136.00	29.55	3655.52	165.94	136.00	9969.00	9972.90	10083.60
*	10.876	1561.11	.00	1562.41	136.31	67.13	2736.15	1001.72	.00	.00	9967.00	10017.30
*	10.876	1561.29	.18	1562.47	136.00	74.15	2709.12	1021.74	136.00	9952.00	9967.00	10017.30
*	10.945	1564.37	.00	1564.57	317.08	1072.72	2315.53	416.75	.00	.00	9940.30	10038.90
*	10.945	1564.38	.01	1564.59	256.00	1099.64	2371.83	333.53	256.00	9834.00	9940.30	10038.90
	11.006	1565.44	.00	1565.74	296.70	271.95	1844.20	1688.85	.00	.00	9979.00	10041.00
*	11.006	1565.54	.09	1566.32	157.00	354.80	2690.65	759.54	157.00	9950.00	9979.00	10041.00
	11.062	1566.66	.00	1566.92	358.38	841.52	1392.07	1571.41	.00	.00	9978.70	10023.10
	11.062	1567.64	.98	1568.08	194.00	499.10	1938.12	1367.77	194.00	9938.00	9978.70	10023.10
	11.118	1567.90	.00	1568.19	380.11	1097.25	2221.01	486.74	.00	.00	9964.40	10060.40
	11.118	1568.91	1.02	1569.31	175.00	834.47	2901.30	69.23	175.00	9894.00	9964.40	10060.40
*	11.190	1570.12	.00	1570.89	164.78	1540.27	2260.56	4.18	.00	.00	9989.50	10039.50
*	11.190	1570.78	.66	1571.49	131.00	1413.15	2381.59	10.26	131.00	9913.00	9989.50	10039.50
*	11.259	1573.04	.00	1573.40	279.13	1713.32	2037.47	54.21	.00	.00	9976.10	10039.50
	11.259	1573.36	.32	1573.84	173.00	1391.03	2341.72	72.24	173.00	9881.00	9976.10	10039.50
	11.351	1575.45	.00	1575.90	312.55	1179.28	2304.42	321.30	.00	.00	9969.60	10030.30
	11.351	1575.90	.45	1576.48	157.00	787.84	2629.30	387.86	157.00	9908.00	9969.60	10030.30
	11.426	1577.21	.00	1577.39	502.04	950.76	1592.93	1261.31	.00	.00	9969.60	10030.90
	11.426	1577.89	.68	1578.31	228.00	787.45	2359.33	658.21	228.00	9908.00	9969.60	10030.90
*	11.515	1579.05	.00	1579.89	209.02	877.42	2864.06	63.51	.00	.00	9935.20	10015.10
	11.515	1580.01	.96	1580.54	183.00	921.72	2792.48	90.79	183.00	9847.00	9935.20	10015.10
	11.554	1581.19	.00	1581.50	328.59	1955.32	1099.98	749.70	.00	.00	9971.80	10013.00
	11.554	1581.28	.09	1581.94	156.00	2217.38	1434.70	152.92	156.00	9886.00	9971.80	10013.00
	11.626	1583.31	.00	1583.82	299.28	675.02	2382.54	747.43	.00	.00	9963.80	10028.10
	11.626	1583.97	.66	1584.62	140.00	684.82	2798.04	322.14	140.00	9921.00	9963.80	10028.10
	11.688	1585.56	.00	1586.07	287.12	867.40	2833.28	104.32	.00	.00	9963.50	10048.10
	11.688	1586.11	.55	1586.74	144.00	428.59	3258.54	117.86	144.00	9920.00	9963.50	10048.10
*	11.722	1586.54	.00	1586.77	472.16	171.50	3330.09	303.41	.00	.00	9930.00	10050.00
*	11.722	1587.21	.67	1587.43	191.00	142.32	3448.48	214.19	191.00	9894.00	9930.00	10050.00

PROJECT TITLE : TRILBY WASH; GRAND AVENUE TO C.A.P.

PROJECT NUMBER : P&D No. 10320.00; FCD No. 90-24 11/21/1991

	Cross-Section Number SECNO	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Energy Gradient Elevation (ft MSL) EG	Water Surface Top Width (ft) TOPWID	Left Overbank Flow (cfs) QLOB	Channel Flow (cfs) QCH	Right Overbank Flow (cfs) QROB	Encroach. Target Requested PERENC	Left Encroach. Station (ft) STENCL	Left Bank Station (ft) STCHL	Right Bank Station (ft) STCHR
	11.734	1587.61	.00	1587.76	532.16	207.23	3453.12	144.65	.00	.00	9928.30	10077.00
*	11.734	1588.59	.97	1588.72	210.00	109.77	3633.38	61.85	210.00	9885.00	9928.30	10077.00
*	11.811	1589.32	.00	1590.74	179.99	647.84	3108.16	.00	.00	.00	9953.60	10022.80
*	11.811	1589.33	.00	1590.74	179.72	649.39	3106.61	.00	180.00	9843.00	9953.60	10022.80
*	11.876	1593.15	.00	1593.45	262.94	62.06	2009.37	1684.57	.00	.00	9978.90	10051.60
*	11.876	1593.43	.29	1593.94	183.00	91.35	2547.01	1117.63	183.00	9957.00	9978.90	10051.60
	11.960	1595.10	.00	1595.48	301.33	84.80	2771.64	899.55	.00	.00	9962.60	10061.50
	11.960	1595.67	.57	1596.06	234.00	135.24	3023.76	596.99	234.00	9925.00	9962.60	10061.50
	12.041	1597.62	.00	1598.16	264.45	1314.79	2437.46	3.75	.00	.00	9976.30	10053.20
*	12.041	1597.95	.32	1599.11	132.00	320.27	3427.27	8.46	132.00	9926.00	9976.30	10053.20
	12.128	1600.93	.00	1601.47	182.03	263.57	3428.73	63.70	.00	.00	9937.40	10049.90
*	12.128	1601.82	.90	1602.24	140.00	181.43	3493.11	81.47	140.00	9923.00	9937.40	10049.90
	12.174	1602.60	.00	1602.81	421.20	14.12	1413.21	2328.67	.00	.00	9981.60	10041.10
	12.174	1603.00	.41	1603.32	220.00	20.29	1678.59	2057.12	220.00	9977.00	9981.60	10041.10
*	12.249	1604.77	.00	1605.45	314.85	467.52	3074.42	214.06	.00	.00	9931.40	10034.50
	12.249	1605.18	.41	1605.87	176.00	205.02	3292.38	258.60	176.00	9892.00	9931.40	10034.50
	12.325	1608.26	.00	1608.63	317.74	526.29	2473.77	755.94	.00	.00	9935.70	10019.20
	12.325	1608.51	.25	1609.02	162.00	457.23	2850.28	448.50	162.00	9902.00	9935.70	10019.20
	12.395	1609.98	.00	1610.31	378.58	285.79	2450.51	1019.70	.00	.00	9949.50	10053.60
	12.395	1610.62	.64	1611.10	193.00	322.94	3104.57	328.49	193.00	9898.00	9949.50	10053.60
*	12.484	1613.72	.00	1614.70	481.07	324.09	3286.64	95.27	.00	.00	9966.60	10061.30
*	12.484	1613.96	.24	1615.12	164.00	89.55	3615.98	.47	164.00	9898.00	9966.60	10061.30
	12.568	1618.44	.00	1618.97	324.75	843.44	2728.17	134.39	.00	.00	9969.20	10043.50
	12.568	1618.73	.29	1619.34	131.00	657.60	2941.36	107.03	131.00	9930.00	9969.20	10043.50
	12.650	1621.60	.00	1622.11	435.30	381.01	2913.70	411.29	.00	.00	9958.70	10042.90
	12.650	1621.93	.33	1622.62	138.00	185.83	3363.27	156.90	138.00	9928.00	9958.70	10042.90
	12.734	1624.43	.00	1625.61	360.00	190.75	2980.28	534.97	.00	.00	9972.30	10031.90
	12.734	1624.86	.43	1626.32	167.68	150.33	3388.55	167.12	169.00	9912.00	9972.30	10031.90
	12.822	1628.50	.00	1629.18	826.75	528.40	2680.24	497.36	.00	.00	9976.50	10040.70
	12.822	1629.02	.51	1630.13	120.00	245.44	3362.26	98.30	120.00	9942.00	9976.50	10040.70

PROJECT TITLE : TRILBY WASH; GRAND AVENUE TO C.A.P.
PROJECT NUMBER : P&D No. 10320.00; FCD No. 90-24 11/21/1991

	Cross-Section Number SECNO	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Energy Gradient Elevation (ft MSL) EG	Water Surface Top Width (ft) TOPWID	Left Overbank Flow (cfs) QLOB	Channel Flow (cfs) QCH	Right Overbank Flow (cfs) QROB	Encroach. Target Requested PERENC	Left Encroach. Station (ft) STENCL	Left Bank Station (ft) STCHL	Right Bank Station (ft) STCHR
	12.909	1631.39	.00	1631.86	436.25	123.53	3526.42	56.05	.00	.00	9921.60	10055.90
*	12.909	1632.07	.68	1632.48	137.00	1.71	3702.70	1.58	137.00	9920.00	9921.60	10055.90
*	13.000	1634.60	.00	1635.53	198.61	163.83	3479.71	62.46	.00	.00	9929.20	10052.40
*	13.000	1634.52	-.08	1635.68	126.00	.89	3701.40	3.71	126.00	9928.00	9929.20	10052.40
*	13.079	1638.57	.00	1638.95	267.84	134.60	2715.43	855.97	.00	.00	9889.10	10025.90
*	13.079	1638.77	.20	1639.15	221.00	1.94	2808.39	895.67	221.00	9888.00	9889.10	10025.90
*	13.141	1641.23	.00	1641.66	494.19	158.03	2484.89	1063.08	.00	.00	9968.70	10093.30
*	13.141	1641.24	.02	1641.67	494.82	159.12	2475.18	1071.71	498.00	9932.00	9968.70	10093.30
*	13.223	1644.91	.00	1645.05	857.53	.00	1529.77	2176.23	.00	.00	9980.50	10086.80
*	13.223	1645.13	.22	1645.33	670.19	.16	1829.79	1876.06	701.00	9979.00	9980.50	10086.80
	13.286	1646.64	.00	1646.73	1018.21	1.10	1031.10	2673.80	.00	.00	9927.40	10053.80
	13.286	1647.06	.42	1647.19	721.00	15.01	1359.69	2331.30	721.00	9886.00	9927.40	10053.80
*	13.354	1650.44	.00	1651.45	324.26	59.65	2664.65	981.70	10533.00	.00	9932.10	10015.80
*	13.354	1650.51	.07	1651.66	249.33	69.97	2820.31	815.72	460.00	9900.00	9932.10	10015.80
*	13.435	1654.83	.00	1655.05	809.61	334.45	2288.82	1082.73	830.00	9740.00	9963.70	10056.70
*	13.435	1655.10	.27	1655.37	420.00	144.65	2518.33	1043.02	420.00	9920.00	9963.70	10056.70
*	13.519	1657.14	.00	1657.60	552.33	74.14	2721.93	909.93	-9800.00	9800.00	9961.60	10065.50
	13.519	1657.39	.25	1657.84	345.57	70.55	2785.91	849.54	384.00	9926.00	9961.60	10065.50
	13.603	1660.34	.00	1660.79	679.50	336.01	2961.54	408.44	-9830.00	9830.00	9965.10	10057.50
	13.603	1660.44	.10	1660.95	303.00	305.80	3099.13	301.07	303.00	9897.00	9965.10	10057.50
	13.691	1663.28	.00	1663.86	545.75	262.83	3122.48	320.70	-9816.90	9816.90	9930.90	10033.10
	13.691	1663.42	.14	1664.04	426.35	155.61	3264.82	285.57	430.00	9880.00	9930.90	10033.10
	13.761	1665.96	.00	1666.37	984.68	114.82	2926.28	664.90	.00	.00	9958.70	10068.20
	13.761	1666.12	.17	1666.63	449.39	1.76	3213.47	490.77	467.00	9948.00	9958.70	10068.20
	13.841	1668.68	.00	1668.95	898.55	4.94	1477.45	2223.60	.00	.00	9961.40	10032.10
	13.841	1669.25	.56	1669.72	531.74	.00	2016.26	1689.74	581.00	9944.00	9961.40	10032.10
	13.912	1671.24	.00	1671.46	868.18	794.92	1600.66	1310.42	-9730.00	9730.00	9966.80	10057.40
*	13.912	1671.87	.63	1672.08	539.00	977.35	1748.73	979.92	539.00	9821.00	9966.80	10057.40
	13.987	1674.24	.00	1674.55	1252.21	290.82	2141.65	1273.52	.00	.00	9922.50	10056.60
*	13.987	1674.43	.19	1675.05	413.00	4.93	2847.68	853.38	413.00	9912.00	9922.50	10056.60

	Cross-Section Number SECNO	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Energy Gradient Elevation (ft MSL) EG	Water Surface Top Width (ft) TOPWID	Left Overbank Flow (cfs) QLOB	Channel Flow (cfs) QCH	Right Overbank Flow (cfs) QROB	Encroach. Target Requested PERENC	Left Encroach. Station (ft) STENCL	Left Bank Station (ft) STCHL	Right Bank Station (ft) STCHR
	14.076	1677.78	.00	1678.10	877.98	193.31	2118.25	1394.43	.00	.00	9987.40	10080.20
*	14.076	1678.25	.47	1678.56	459.00	281.03	2221.65	1203.33	459.00	9911.00	9987.40	10080.20
	14.126	1679.46	.00	1679.87	771.73	496.72	2232.64	976.64	.00	.00	9972.40	10059.40
	14.126	1679.64	.18	1680.10	452.00	568.77	2388.37	748.86	452.00	9878.00	9972.40	10059.40
	14.197	1682.43	.00	1682.83	1061.43	67.84	2782.83	855.33	.00	.00	9918.20	10057.30
	14.197	1682.72	.29	1683.40	328.13	66.63	3523.70	115.67	339.00	9861.00	9918.20	10057.30
	14.310	1687.95	.00	1688.51	397.02	1029.40	1904.07	388.53	403.10	9762.30	9974.70	10032.70
	14.310	1688.22	.27	1688.64	384.00	1099.38	1790.39	432.23	384.00	9766.00	9974.70	10032.70
	14.396	1691.47	.00	1691.93	432.70	707.90	2173.02	441.08	432.70	9767.30	9968.80	10036.10
	14.396	1691.44	-.03	1692.17	301.00	270.08	2544.60	507.32	301.00	9898.00	9968.80	10036.10
	14.481	1694.57	.00	1694.98	731.46	578.85	2233.50	509.65	.00	.00	9924.30	10024.60
	14.481	1695.23	.67	1696.04	160.00	138.44	3161.48	22.08	160.00	9881.00	9924.30	10024.60
	14.569	1698.24	.00	1698.67	567.52	484.34	2285.68	551.99	.00	.00	9934.70	10035.30
	14.569	1699.05	.81	1699.66	160.00	126.94	2950.29	244.77	160.00	9909.00	9934.70	10035.30
	14.656	1701.88	.00	1702.64	382.57	270.82	2618.09	433.09	.00	.00	9973.00	10043.30
	14.656	1702.26	.38	1703.06	156.00	289.34	2800.68	231.98	156.00	9932.00	9973.00	10043.30
*	14.711	1704.01	.00	1704.25	505.07	559.85	2387.93	374.22	.00	.00	9971.30	10103.50
	14.711	1704.40	.39	1704.88	149.00	21.23	3267.50	33.26	149.00	9964.00	9971.30	10103.50
*	14.754	1705.43	.00	1706.03	740.00	684.56	2147.88	489.56	.00	.00	9939.60	10035.80
*	14.754	1705.96	.53	1706.88	164.00	2.75	2752.02	567.24	164.00	9938.00	9939.60	10035.80
*	14.845	1709.67	.00	1709.91	712.39	753.18	2060.55	508.27	.00	.00	9905.50	10033.60
*	14.845	1710.31	.64	1710.66	232.00	114.48	2658.31	549.21	232.00	9883.00	9905.50	10033.60
*	14.937	1712.97	.00	1713.65	339.48	585.86	2395.02	341.12	.00	.00	9939.70	10028.10
*	14.937	1713.32	.35	1714.06	193.00	285.48	2631.66	404.86	193.00	9883.00	9939.70	10028.10
	14.976	1715.14	.00	1715.59	466.84	787.19	2155.56	379.25	.00	.00	9955.00	10035.90
	14.976	1715.39	.25	1716.09	228.00	216.02	2628.38	477.60	228.00	9883.00	9955.00	10035.90
	15.044	1718.11	.00	1718.37	521.74	587.42	1609.95	837.63	.00	.00	9969.30	10048.90
	15.044	1718.74	.63	1719.09	252.00	568.00	1999.77	467.23	252.00	9896.00	9969.30	10048.90
	15.118	1721.06	.00	1721.26	500.72	1692.98	1288.59	53.42	.00	.00	9879.80	10031.70
	15.118	1721.89	.83	1722.29	222.00	573.42	2461.28	.30	222.00	9810.00	9879.80	10031.70

PROJECT TITLE : TRILBY WASH; GRAND AVENUE TO C.A.P.
PROJECT NUMBER : P&D No. 10320.00; FCD No. 90-24 11/21/1991

	Cross-Section Number SECNO	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Energy Gradient Elevation (ft MSL) EG	Water Surface Top Width (ft) TOPWID	Left Overbank Flow (cfs) QLOB	Channel Flow (cfs) QCH	Right Overbank Flow (cfs) QROB	Encroach. Target Requested PERENC	Left Encroach. Station (ft) STENCL	Left Bank Station (ft) STCHL	Right Bank Station (ft) STCHR
	15.208	1725.36	.00	1725.82	490.49	432.24	2390.71	212.05	.00	.00	9976.10	10122.50
	15.208	1726.00	.65	1726.44	213.00	260.66	2726.89	47.45	213.00	9920.00	9976.10	10122.50
	15.298	1730.02	.00	1730.34	334.30	33.53	1759.98	1241.49	.00	.00	9975.50	10064.80
	15.298	1730.31	.29	1730.93	167.00	57.12	2402.65	575.23	167.00	9959.00	9975.50	10064.80
	15.379	1733.15	.00	1733.42	414.33	1278.72	1614.02	142.26	.00	.00	9964.80	10072.90
*	15.379	1733.75	.60	1734.00	294.00	1035.73	1798.87	200.40	294.00	9836.00	9964.80	10072.90
	15.443	1735.87	.00	1736.27	381.21	1225.45	1650.59	158.95	.00	.00	9975.20	10057.80
	15.443	1735.92	.06	1736.32	351.37	1242.39	1651.48	141.14	352.00	9742.00	9975.20	10057.80
	15.500	1738.73	.00	1738.88	636.53	1031.54	1734.22	269.24	.00	.00	9978.60	10176.00
	15.500	1739.06	.33	1739.34	335.00	114.00	2507.98	413.02	335.00	9914.00	9978.60	10176.00
	15.581	1742.13	.00	1742.29	883.20	1146.23	1465.55	423.21	.00	.00	9982.30	10144.20
	15.581	1742.82	.69	1743.04	414.00	816.38	1975.75	242.87	414.00	9784.00	9982.30	10144.20
	15.637	1744.59	.00	1744.82	523.69	253.95	162.76	2618.29	.00	.00	9975.90	10019.00
	15.637	1745.36	.76	1745.77	292.23	673.25	383.51	1978.24	341.00	9889.00	9975.90	10019.00
	15.683	1746.95	.00	1747.51	305.95	.00	249.44	2785.56	.00	.00	9929.70	10015.00
	15.683	1747.65	.70	1748.01	256.39	.27	391.58	2643.15	459.00	9929.00	9929.70	10015.00
*	15.749	1751.68	.00	1751.84	392.63	478.05	274.75	522.19	10247.90	.00	9977.20	10028.10
*	15.749	1751.31	-.36	1751.84	222.77	160.50	365.40	624.10	369.00	9857.00	9977.20	10028.10
	15.842	1757.28	.00	1757.49	491.85	75.22	571.48	628.29	10425.10	.00	9960.20	10026.90
*	15.842	1757.55	.27	1757.66	432.00	37.50	470.19	642.31	432.00	9907.00	9960.20	10026.90
	15.890	1760.61	.00	1760.73	569.30	374.74	521.65	378.61	10430.50	.00	9974.50	10068.30
*	15.890	1760.45	-.15	1760.75	358.30	53.26	662.19	434.55	398.00	9910.00	9974.50	10068.30
	15.898	1761.13	.00	1761.21	633.59	459.80	469.58	345.62	777.70	9691.00	9982.70	10087.60
*	15.898	1761.33	.21	1761.45	418.00	85.31	582.43	482.26	418.00	9919.00	9982.70	10087.60
	15.932	1763.01	.00	1763.21	587.18	166.95	695.63	412.42	10455.80	.00	9937.60	10006.60
	15.932	1763.09	.09	1763.29	445.00	6.71	687.78	455.51	445.00	9913.00	9937.60	10006.60
	16.021	1769.03	.00	1769.24	432.42	507.54	696.50	70.95	10159.10	.00	9964.60	10036.60
	16.021	1769.06	.03	1769.37	270.00	277.94	787.60	84.46	270.00	9878.00	9964.60	10036.60
*	16.112	1774.48	.00	1774.69	507.71	414.80	974.71	485.49	10258.60	.00	9969.80	10045.60
*	16.112	1774.63	.15	1774.87	319.00	162.91	1022.90	564.18	319.00	9917.00	9969.80	10045.60

	Cross-Section Number SECNO	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Energy Gradient Elevation (ft MSL) EG	Water Surface Top Width (ft) TOPWID	Left Overbank Flow (cfs) QLOB	Channel Flow (cfs) QCH	Right Overbank Flow (cfs) QROB	Encroach. Target Requested PERENC	Left Encroach. Station (ft) STENCL	Left Bank Station (ft) STCHL	Right Bank Station (ft) STCHR
	16.164	1777.74	.00	1778.06	349.99	1060.16	814.84	.00	10050.20	.00	9978.20	10033.10
	16.164	1778.37	.63	1778.94	326.00	147.17	1151.28	1696.55	326.00	9926.00	9978.20	10033.10
*	16.254	1783.39	.00	1784.04	312.08	51.13	2878.48	65.39	10115.10	.00	9933.90	10039.80
*	16.254	1783.81	.43	1784.35	154.00	5.75	2887.91	101.34	154.00	9926.00	9933.90	10039.80
	16.345	1788.08	.00	1788.76	120.56	1845.31	1149.69	.00	.00	.00	9977.80	10010.50
	16.345	1787.94	-.14	1788.68	119.96	1831.51	1163.49	.00	122.00	9889.00	9977.80	10010.50
*	16.421	1793.42	.00	1794.04	538.44	237.26	1757.82	999.92	.00	.00	9963.70	10022.70
*	16.421	1793.53	.11	1795.05	118.00	338.19	2437.90	218.91	118.00	9935.00	9963.70	10022.70
	16.481	1797.22	.00	1797.57	348.69	1024.24	1547.98	422.77	.00	.00	9955.70	10016.60
*	16.481	1798.07	.85	1798.36	210.00	949.59	1623.62	421.80	210.00	9853.00	9955.70	10016.60
	16.551	1800.95	.00	1801.40	315.57	.00	1579.85	1415.15	.00	.00	9979.20	10054.70
*	16.551	1801.16	.21	1802.67	110.00	.00	2601.23	393.76	110.00	9979.00	9979.20	10054.70
	16.628	1805.69	.00	1806.46	398.85	365.50	2051.03	578.46	.00	.00	9954.40	10019.40
*	16.628	1806.68	.99	1807.14	260.00	596.07	1993.83	405.10	260.00	9837.00	9954.40	10019.40
	16.714	1810.68	.00	1811.41	234.62	113.20	2413.78	468.02	.00	.00	9939.70	10014.50
*	16.714	1810.21	-.47	1811.25	124.02	19.81	2525.73	449.46	127.00	9933.00	9939.70	10014.50
	16.788	1814.81	.00	1815.73	177.05	348.30	2595.28	51.42	.00	.00	9947.10	10021.00
	16.788	1815.17	.36	1815.92	146.17	386.06	2548.75	60.19	148.00	9893.00	9947.10	10021.00
	16.861	1819.00	.00	1819.78	286.31	36.75	2467.01	491.23	.00	.00	9981.80	10055.60
	16.861	1818.91	-.09	1819.94	125.15	.00	2662.14	332.85	127.00	9981.00	9981.80	10055.60
*	16.936	1823.30	.00	1824.69	186.77	121.81	2695.00	178.20	.00	.00	9966.10	10025.40
	16.936	1823.22	-.08	1825.14	65.64	.00	2973.09	21.91	72.00	9960.00	9966.10	10025.40
	17.011	1827.64	.00	1828.56	309.91	154.13	2667.05	173.82	.00	.00	9970.00	10039.00
*	17.011	1828.06	.42	1828.83	170.00	124.25	2658.11	212.64	170.00	9910.00	9970.00	10039.00
	17.046	1828.98	.00	1829.99	111.84	95.00	2883.50	16.50	.00	.00	9955.20	10025.80
	17.046	1829.09	.11	1830.05	102.00	98.75	2877.38	18.86	102.00	9935.00	9955.20	10025.80
*	17.135	1835.37	.00	1836.94	166.27	116.27	2460.02	418.70	.00	.00	9982.30	10016.30
*	17.135	1835.18	-.19	1837.24	91.34	77.94	2644.38	272.68	94.00	9962.00	9982.30	10016.30
	17.200	1839.47	.00	1840.07	289.46	109.04	1776.50	1109.45	.00	.00	9976.80	10022.60
	17.200	1839.95	.48	1840.67	168.00	161.24	2011.51	822.25	168.00	9942.00	9976.80	10022.60

	Cross-Section Number SECNO	Computed W. S. Elevation (ft MSL) CWSEL	W.S. Elev Diff per Know/Comp (ft) DIFKWS	Energy Gradient Elevation (ft MSL) EG	Water Surface Top Width (ft) TOPWID	Left Overbank Flow (cfs) QLOB	Channel Flow (cfs) QCH	Right Overbank Flow (cfs) QROB	Encroach. Target Requested PERENC	Left Encroach. Station (ft) STENCL	Left Bank Station (ft) STCHL	Right Bank Station (ft) STCHR
*	17.262	1842.73	.00	1844.10	160.53	115.66	2669.15	.18	.00	.00	9966.10	10039.90
*	17.262	1842.96	.23	1844.32	88.00	14.52	2769.38	1.10	88.00	9955.00	9966.10	10039.90
*	17.319	1846.36	.00	1846.64	452.09	279.32	1546.01	959.67	.00	.00	9977.10	10042.50
	17.319	1846.87	.50	1847.71	95.00	59.08	2469.17	256.75	95.00	9970.00	9977.10	10042.50
*	17.364	1849.25	.00	1850.27	283.15	241.23	2312.21	231.56	.00	.00	9966.50	10031.70
*	17.364	1849.26	.01	1850.64	96.00	58.40	2565.45	161.15	96.00	9955.00	9966.50	10031.70
	17.425	1853.14	.00	1853.87	306.05	2.32	2113.91	668.78	.00	.00	9970.20	10025.90
*	17.425	1853.58	.44	1854.36	122.00	5.03	2282.23	497.74	122.00	9967.00	9970.20	10025.90
*	17.476	1855.02	.00	1855.34	147.23	9.38	2751.21	24.41	.00	.00	9893.70	10027.40
*	17.476	1855.34	.32	1855.62	147.00	10.41	2746.60	27.99	147.00	9890.00	9893.70	10027.40

SUMMARY OF WARNING AND STATUS MESSAGES :

Section 10.445, profile 1, critical depth assumed.

Section 10.445, profile 2, critical depth assumed.

Section 10.45, profile 1, critical depth assumed.

Section 10.45, profile 1, probable minimum specific energy.

Section 10.45, profile 1, 20 trials attempted to balance water surface elevation.

Section 10.45, profile 2, critical depth assumed.

Section 10.45, profile 2, probable minimum specific energy.

Section 10.45, profile 2, 20 trials attempted to balance water surface elevation.

Section 10.473, profile 1, conveyance change outside acceptable range.

Section 10.473, profile 2, conveyance change outside acceptable range.

Section 10.474, profile 1, conveyance change outside acceptable range.

Section 10.474, profile 2, conveyance change outside acceptable range.

Section 10.876, profile 1, conveyance change outside acceptable range.

Section 10.876, profile 2, conveyance change outside acceptable range.

Section 10.945, profile 1, conveyance change outside acceptable range.

Section 10.945, profile 2, conveyance change outside acceptable range.

Section 11.006, profile 2, conveyance change outside acceptable range.

Section 11.19, profile 1, conveyance change outside acceptable range.

Section 11.19, profile 2, conveyance change outside acceptable range.

Section 11.259, profile 1, conveyance change outside acceptable range.

Section 11.515, profile 1, conveyance change outside acceptable range.

Section 11.722, profile 1, conveyance change outside acceptable range.

Section 11.722, profile 2, conveyance change outside acceptable range.

Section 11.734, profile 2, conveyance change outside acceptable range.

Section 11.811, profile 1, critical depth assumed.

Section 11.811, profile 1, probable minimum specific energy.

Section 11.811, profile 1, 20 trials attempted to balance water surface elevation.

Section 11.811, profile 2, critical depth assumed.

Section 11.811, profile 2, minimum specific energy.

Section 11.876, profile 1, conveyance change outside acceptable range.

Section 11.876, profile 2, conveyance change outside acceptable range.

Section 12.041, profile 2, conveyance change outside acceptable range.

Section 12.128, profile 2, conveyance change outside acceptable range.

Section 12.249, profile 1, conveyance change outside acceptable range.

Section 12.484, profile 1, critical depth assumed.

Section 12.484, profile 1, minimum specific energy.

Section 12.484, profile 2, conveyance change outside acceptable range.

Section 12.909, profile 2, conveyance change outside acceptable range.

Section 13, profile 1, conveyance change outside acceptable range.

Section 13, profile 2, conveyance change outside acceptable range.

Section 13.079, profile 1, conveyance change outside acceptable range.

Section 13.079, profile 2, conveyance change outside acceptable range.

Section 13.141, profile 1, conveyance change outside acceptable range.

Section 13.141, profile 2, conveyance change outside acceptable range.

Section 13.223, profile 1, conveyance change outside acceptable range.

Section 13.223, profile 2, conveyance change outside acceptable range.

Section 13.354, profile 1, critical depth assumed.

Section 13.354, profile 1, minimum specific energy.

Section 13.354, profile 2, critical depth assumed.

Section 13.354, profile 2, minimum specific energy.

Section 13.435, profile 1, conveyance change outside acceptable range.

Section 13.435, profile 2, conveyance change outside acceptable range.

Section 13.519, profile 1, conveyance change outside acceptable range.

Section 13.912, profile 2, conveyance change outside acceptable range.

Section 13.987, profile 2, conveyance change outside acceptable range.

Section 14.076, profile 2, conveyance change outside acceptable range.

Section 14.711, profile 1, conveyance change outside acceptable range.

Section 14.754, profile 1, critical depth assumed.

Section 14.754, profile 1, minimum specific energy.

Section 14.754, profile 2, conveyance change outside acceptable range.

Section 14.845, profile 1, conveyance change outside acceptable range.

Section 14.845, profile 2, conveyance change outside acceptable range.

Section 14.937, profile 1, conveyance change outside acceptable range.

Section 14.937, profile 2, conveyance change outside acceptable range.

Section 15.379, profile 2, conveyance change outside acceptable range.

Section 15.749, profile 1, conveyance change outside acceptable range.

Section 15.749, profile 2, critical depth assumed.

Section 15.749, profile 2, probable minimum specific energy.

Section 15.749, profile 2, 20 trials attempted to balance water surface elevation.

Section 15.842, profile 2, conveyance change outside acceptable range.

Section 15.89, profile 2, conveyance change outside acceptable range.

Section 15.898, profile 2, conveyance change outside acceptable range.

Section 16.112, profile 1, conveyance change outside acceptable range.

Section 16.112, profile 2, conveyance change outside acceptable range.

Section 16.254, profile 1, conveyance change outside acceptable range.

Section 16.254, profile 2, conveyance change outside acceptable range.

Section 16.421, profile 1, critical depth assumed.

Section 16.421, profile 1, minimum specific energy.

Section 16.421, profile 2, critical depth assumed.

Section 16.421, profile 2, minimum specific energy.

Section 16.481, profile 2, conveyance change outside acceptable range.

Section 16.551, profile 2, critical depth assumed.

Section 16.551, profile 2, minimum specific energy.

Section 16.628, profile 2, conveyance change outside acceptable range.

Section 16.714, profile 2, conveyance change outside acceptable range.

Section 16.936, profile 1, critical depth assumed.

Section 16.936, profile 1, minimum specific energy.

Section 17.011, profile 2, conveyance change outside acceptable range.

Section 17.135, profile 1, critical depth assumed.

Section 17.135, profile 1, probable minimum specific energy.

Section 17.135, profile 1, 20 trials attempted to balance water surface elevation.

Section 17.135, profile 2, critical depth assumed.

Section 17.135, profile 2, probable minimum specific energy.

Section 17.135, profile 2, 20 trials attempted to balance water surface elevation.

Section 17.262, profile 1, critical depth assumed.

Section 17.262, profile 1, minimum specific energy.

Section 17.262, profile 2, conveyance change outside acceptable range.

Section 17.319, profile 1, conveyance change outside acceptable range.

Section 17.364, profile 1, critical depth assumed.

Section 17.364, profile 1, probable minimum specific energy.

Section 17.364, profile 1, 20 trials attempted to balance water surface elevation.

Section 17.364, profile 2, conveyance change outside acceptable range.

Section 17.425, profile 2, conveyance change outside acceptable range.

Section 17.476, profile 1, conveyance change outside acceptable range.

Section 17.476, profile 2, conveyance change outside acceptable range.

105 Warning and status message(s) generated

SUMMARY PRINTOUT TABLE 200 : TRILBY WASH; GRAND AVENUE TO C.A.P.
---------- MAIN CHANNEL; ENCROACHED
P&D No. 10320.00; FCD No. 90-24

Profile Number 2

Cross-Section Number	Floodway Width (ft)	Floodway Section Area (sq ft)	Floodway Mean Velocity (ft/s)	W. S. Elevation with Floodway (ft MSL)	W. S. Elevation without Floodway (ft MSL)	W. S. Elevation Diffrence (ft)
10.445	136.	396.	9.7	1545.5	1545.5	.0
10.450	136.	396.	9.7	1547.7	1547.7	.0
10.468	136.	476.	8.1	1548.4	1548.4	.0
10.473	159.	662.	5.8	1549.0	1549.0	.0
10.474	179.	622.	6.2	1549.0	1549.0	.0
10.479	215.	788.	4.9	1549.5	1549.5	.0
10.528	170.	649.	5.9	1551.1	1551.0	.1
10.592	188.	892.	4.3	1553.6	1552.7	.9
10.683	179.	816.	4.7	1556.0	1555.1	.9
10.761	179.	716.	5.4	1558.2	1558.0	.2
10.815	136.	705.	5.5	1559.7	1559.7	.0
10.876	136.	536.	7.1	1561.3	1561.1	.2
10.945	256.	1096.	3.5	1564.4	1564.4	.0
11.006	157.	636.	6.0	1565.5	1565.4	.1
11.062	194.	880.	4.3	1567.7	1566.7	1.0
11.118	175.	835.	4.6	1568.9	1567.9	1.0
11.190	131.	633.	6.0	1570.8	1570.1	.7
11.259	173.	775.	4.9	1573.3	1573.0	.3
11.351	157.	743.	5.1	1575.9	1575.4	.5
11.426	228.	912.	4.2	1577.9	1577.2	.7
11.515	183.	771.	4.9	1580.1	1579.1	1.0
11.554	156.	611.	6.2	1581.3	1581.2	.1
11.626	140.	657.	5.8	1584.0	1583.3	.7
11.688	144.	655.	5.8	1586.2	1585.6	.6
11.722	191.	1145.	3.3	1587.2	1586.5	.7
11.734	210.	1415.	2.7	1588.6	1587.6	1.0
11.811	180.	480.	7.8	1589.3	1589.3	.0
11.876	183.	763.	4.9	1593.4	1593.1	.3
11.960	234.	889.	4.2	1595.7	1595.1	.6
12.041	132.	484.	7.8	1597.9	1597.6	.3
12.128	140.	753.	5.0	1601.8	1600.9	.9
12.174	220.	882.	4.3	1603.0	1602.6	.4
12.249	176.	631.	5.9	1605.2	1604.8	.4
12.325	162.	726.	5.2	1608.6	1608.3	.3
12.395	193.	765.	4.9	1610.6	1610.0	.6
12.484	164.	466.	8.0	1613.9	1613.7	.2
12.568	131.	634.	5.8	1618.7	1618.4	.3
12.650	138.	606.	6.1	1621.9	1621.6	.3
12.734	168.	480.	7.7	1624.8	1624.4	.4

12.822	120.	501.	7.4	1629.0	1628.5	.5
12.909	137.	724.	5.1	1632.1	1631.4	.7
13.000	126.	431.	8.6	1634.5	1634.6	-.1

SUMMARY PRINTOUT TABLE 200 : TRILBY WASH; GRAND AVENUE TO C.A.P.
---------- MAIN CHANNEL; ENCROACHED
P&D No. 10320.00; FCD No. 90-24

Profile Number 2

Cross-Section Number	Floodway Width (ft)	Floodway Section Area (sq ft)	Floodway Mean Velocity (ft/s)	W. S. Elevation with Floodway (ft MSL)	W. S. Elevation without Floodway (ft MSL)	W. S. Elevation Diffrence (ft)
13.079	221.	755.	4.9	1638.8	1638.6	.2
13.141	498.	842.	4.4	1641.2	1641.2	.0
13.223	701.	1220.	3.0	1645.1	1644.9	.2
13.286	721.	1413.	2.6	1647.0	1646.6	.4
13.354	446.	492.	7.5	1650.5	1650.4	.1
13.435	420.	1149.	3.2	1655.1	1654.8	.3
13.519	384.	855.	4.3	1657.4	1657.1	.3
13.603	303.	803.	4.6	1660.4	1660.3	.1
13.691	426.	773.	4.8	1663.4	1663.3	.1
13.761	449.	824.	4.5	1666.2	1666.0	.2
13.841	565.	935.	4.0	1669.3	1668.7	.6
13.912	539.	1214.	3.1	1671.8	1671.2	.6
13.987	413.	713.	5.2	1674.4	1674.2	.2
14.076	459.	1073.	3.5	1678.3	1677.8	.5
14.126	452.	899.	4.1	1679.7	1679.5	.2
14.197	339.	628.	5.9	1682.7	1682.4	.3
14.310	384.	890.	3.7	1688.3	1688.0	.3
14.396	301.	675.	4.9	1691.5	1691.5	.0
14.481	160.	509.	6.5	1695.3	1694.6	.7
14.569	160.	593.	5.6	1699.0	1698.2	.8
14.656	156.	557.	6.0	1702.3	1701.9	.4
14.711	149.	615.	5.4	1704.4	1704.0	.4
14.754	164.	458.	7.3	1705.9	1705.4	.5
14.845	232.	800.	4.2	1710.3	1709.7	.6
14.937	193.	563.	5.9	1713.3	1713.0	.3
14.976	228.	615.	5.4	1715.3	1715.1	.2
15.044	252.	711.	4.3	1718.7	1718.1	.6
15.118	222.	638.	4.8	1721.9	1721.1	.8
15.208	213.	610.	5.0	1726.0	1725.4	.6
15.298	167.	528.	5.7	1730.3	1730.0	.3
15.379	294.	858.	3.5	1733.7	1733.1	.6
15.443	351.	725.	4.2	1736.0	1735.9	.1
15.500	335.	770.	3.9	1739.0	1738.7	.3
15.581	414.	919.	3.3	1742.8	1742.1	.7
15.637	341.	603.	5.0	1745.4	1744.6	.8
15.683	459.	662.	4.6	1747.6	1746.9	.7

15.749	364.	217.	5.3	1751.3	1751.7	-.4
15.842	432.	472.	2.4	1757.6	1757.3	.3
15.890	387.	299.	3.8	1760.4	1760.6	-.2
15.898	418.	471.	2.4	1761.3	1761.1	.2
15.932	445.	413.	2.8	1763.1	1763.0	.1
16.021	270.	304.	3.8	1769.0	1769.0	.0

SUMMARY PRINTOUT TABLE 200 : TRILBY WASH; GRAND AVENUE TO C.A.P.
---------- MAIN CHANNEL; ENCROACHED
P&D No. 10320.00; FCD No. 90-24

Profile Number 2

Cross-Section Number	Floodway Width (ft)	Floodway Section Area (sq ft)	Floodway Mean Velocity (ft/s)	W. S. Elevation with Floodway (ft MSL)	W. S. Elevation without Floodway (ft MSL)	W. S. Elevation Diffrence (ft)
16.112	319.	535.	3.3	1774.7	1774.5	.2
16.164	326.	523.	5.7	1778.3	1777.7	.6
16.254	154.	535.	5.6	1783.8	1783.4	.4
16.345	120.	444.	6.7	1788.0	1788.1	-.1
16.421	118.	348.	8.6	1793.5	1793.4	.1
16.481	210.	775.	3.9	1798.0	1797.2	.8
16.551	110.	327.	9.2	1801.1	1800.9	.2
16.628	260.	714.	4.2	1806.7	1805.7	1.0
16.714	124.	402.	7.4	1810.2	1810.7	-.5
16.788	146.	487.	6.1	1815.2	1814.8	.4
16.861	125.	419.	7.1	1818.9	1819.0	-.1
16.936	66.	275.	10.9	1823.2	1823.3	-.1
17.011	170.	520.	5.8	1828.0	1827.6	.4
17.046	102.	407.	7.4	1829.1	1829.0	.1
17.135	91.	324.	9.2	1835.2	1835.4	-.2
17.200	168.	572.	5.2	1840.0	1839.5	.5
17.262	88.	305.	9.1	1842.9	1842.7	.2
17.319	95.	414.	6.7	1846.9	1846.4	.5
17.364	96.	323.	8.6	1849.2	1849.2	.0
17.425	122.	455.	6.1	1853.5	1853.1	.4
17.476	147.	670.	4.2	1855.3	1855.0	.3

END OF OUTPUT