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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

DAM BREAK ANALYSIS

FOR

WHITE TANKS NO. 3 AND NO. 4

FLOOD RETARDING STRUCTURES

MARICOPA COUNTY, ARIZONA

ACK ENGINEERS, INC.

January 1991

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MARICOPA COUNTY, ARIZONA

PEACETIME DISASTER PLAN

ANNEX B - STORMS AND FLOODS

APPENDIX 5 - WHITE TANKS FRS NO. 4

I. SITUATION

A. White Tanks Flood Retarding Structure No. 4 is located in Sections 5 and 6, Township 1 North, Range 2 West, G & SRB & M, approximately 20 miles west of Phoenix and 7 miles northeast of Buckeye in Maricopa County. The White Tanks FRS No. 4 is a compacted earthfill embankment structure that consists of two segments; one segment extends in the east-west direction and the other bends northerly to merge with the high ground on the gently sloping terrain. The total length of the dam is about 6,840 feet. The width of the dam varies from 10 feet at the crest, to a maximum of about 89 feet at the base. Maximum height above the streambed is about 20 feet. Both the upstream and downstream side slopes are 2 horizontal to 1 vertical.

The principle spillways (outlet works) of the structure consist of a 30-inch CMP located in the northern segment of the dam, and a 36-inch CMP located in the central segment. Both outlets are gated with the intake cut flush with the upstream surface of the dam. The dam includes two emergency spillways, one through each abutment. Each spillway has a bottom width of 165 feet, 1:1 side slopes, a flat crest for a distance of approximately 40 feet, an approach channel with an adverse grade of 0.002, and a downstream slope of 0.003. The approximate crest elevations of the north and west spillways are 1049.0 and 1048.5, respectively.

B. The dam was designed by the Soil Conservation Service (SCS), and construction of White Tanks FRS No. 4 was completed in 1954. The Flood Control District of Maricopa County, the local flood control sponsor, operates and maintains the flood control features. The purpose of the structure is to provide flood protection downstream. White Tanks FRS No. 4 was designed to detain water only during times of flooding.

The most significant manmade feature upstream of this flood retarding structure is I-10. The most significant features downstream of the structure are Roosevelt Canal, Buckeye Canal, and the Southern Pacific Railroad. The natural drainage downstream of the structure flows southerly towards the Gila River.

C. Structural failure scenarios were evaluated at three different locations along the earthen embankment of White Tanks FRS No. 4. The first location was at a point on the east-west leg of the embankment where the height of the structure above the streambed is at maximum. This location also corresponds to one of the controlled pipe outlets. The second location was chosen at the uncontrolled spillway on the north leg of the embankment because it poses a potential threat on the housing development east of Jackrabbit Road. The third breech location was on the western edge of the east-west leg of the embankment. The flow paths and time of travel resulting from a dambreak at these three locations were noticed to be similar, except Location No. 2 presents an immediate impact on the housing development east of Jackrabbit Road.

D. If White Tanks FRS No. 4 were to breech by piping failure at Location No. 2, within 15 minutes after the impoundment behind the retarding structure reached an elevation of 1053.0, a flow of 37,263 cfs would result. The majority of this flow would cross Jackrabbit Road and inundate the adjacent residences. The flow depths are anticipated to be approximately 2 feet ±, with fairly high velocities due to the proximity of the breech. As very little warning time is available, some loss of life could occur.

E. If White Tanks FRS No. 4 were to breech at Location No. ~~2~~ 1 by piping failure, within 15 minutes after the level of impoundment behind the retarding structure reached an elevation of 1053.0, a flow of 58,513 cfs would result. This scenario represents the "highest outflow" case. The peak flow would reach the Roosevelt Canal, Southern Pacific Railway, Community of Liberty, and Gila River within 0.55 hours, 1.60 hours, 2.80 hours, and 3.0 hours respectively, following the commencement of the breech formation.

F. In all three scenarios, the floodwave velocity is reduced and the depth decreases as the flow spreads laterally. This condition is due to the lack of a defined channel to convey the flows. Another contributing factor to this condition is the high degree of agriculture downstream of White Tanks FRS No. 4.

II. MISSION

To provide an effective response to any flood disasters in the area protected by White Tanks FRS No. 4.

III. EXECUTION

A. Concept of Operations

1. The Flood Control District of Maricopa County (FCD) is responsible for monitoring the structure when water is impounded.

2. The Maricopa County Sheriff's Office (MSCO) has accepted the operational responsibility for warning and evacuation of the unincorporated areas downstream of White Tanks FRS No. 4.

3. The Maricopa County Department of Civil Defense and Emergency Services (MCMCD&ES) will monitor the situation, activate the EOC, and coordinate any requests for support.

B. Tasks

1. The Maricopa County Flood Control District will:

   a. Provide observers to monitor the situation when water is impounded.

   b. Provide notification in this order:

      (1) The Maricopa County Department of Civil Defense and Emergency Services

2. The Maricopa County Department of Civil Defense and Emergency Services will:

   a. Notify the Maricopa County Sheriff's Office

      (1) The Maricopa County Sheriff's Office will: Exercise operational responsibility for alert and evacuation of unincorporated areas for all three scenarios. (Maps 1, 2, and 3).

   b. Activate the Emergency Operations Center and monitor the situation.

   c. Coordinate any requested support.

   d. Conduct warning as follows:

      (1) Scenario #1 - Breech at Outlet Channel - Alert in this order: Community of Liberty, Southern Pacific Railroad Company, Roosevelt Irrigation District, Buckeye Irrigation District.

C. Support

1. American Red Cross (ARC) will establish and operate mass care facilities.

2. ARC will assist in evacuation of ill and injured persons.

IV. ADMINISTRATION AND LOGISTICS

A. See Annex A, Basic Plan.

B. This Flood Control Dam analysis with maps will be placed in the Emergency Operations Center at the Operation Chief's desk.

C. Perryville Prison will be provided with a copy of this plan in order to develop appropriate procedures in their respective emergency response plan.

D. The Maricopa County Sheriff's Office will be provided with at least three (3) copies with maps of this plan.

V. DIRECTION AND CONTROL

See Annex A, Basic Plan

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

DAM BREAK ANALYSIS

FOR

WHITE TANKS NO. 3 AND NO. 4

FLOOD RETARDING STRUCTURES

MARICOPA COUNTY, ARIZONA

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DAMBREAK ANALYSIS FOR
WHITE TANKS NO. 3 AND NO. 4
FLOOD RETARDING STRUCTURES
MARICOPA COUNTY, ARIZONA

INTRODUCTION

This report presents the results of an analysis of downstream flooding which would result from the failure of White Tanks No. 3 and No. 4, earthen flood retarding structures located west of Phoenix, Arizona. The analysis was performed by AGK Engineers, Inc. for the Flood Control District of Maricopa County, using the DAMBRK computer model developed by Dr. D.L. Fread of the National Weather Service. The report includes maps of the inundated area to assist in emergency planning.

PURPOSE

This study was conducted in order to determine the area which would be at substantial risk of loss of life and property in the event of a failure of either or both White Tanks Flood Retarding Structures (FRS) No. 3 and No. 4. Such a determination is required by the Arizona Department of Water Resources (ADWR), Office of Dam Safety, under Arizona Revised Statutes 45-701 through 45-717.

LIMITATIONS

While any number of scenarios describing the failure of White Tanks FRS No. 3 and No.4 and the downstream hydraulic regimes can be conceived, an exhaustive analysis of each of them is not feasible. Inasmuch as the purpose of this analysis was to provide information on the extent of flooding which would result from a dam failure so as to prevent the loss of life, only "worst case" and subjectively determined "most probable" scenarios were modeled. As such, the time of failure was assumed to be relatively short, and the sizes of the breach opening were assumed to be large. As instructed by the District, the reservoirs were assumed to be near empty when computations commenced.

The dam failure was assumed to be caused by piping. An attempt was also made to model the downstream flooding which would result from dam failure caused by overtopping of the structure. For this effort, the design inflow hydrographs were routed by the District staff through initially dry reservoirs. Since the emergency spillway virtually passed this design inflow without the dam overtopping, after discussion with the District, the effects of dam failure caused by overtopping were not necessary in this case.

The downstream limit of the study is the Gila River. This limit was chosen because the maximum discharge of the flood water would not likely exceed the river's capacities. It was assumed that the embankment of Interstate Highway 10 (I-10) would be able to sustain the flood without collapsing. It was further assumed that the flood water would flow across the Roosevelt Canal and run southerly toward the Gila River, instead of turning southwesterly along the canal embankment toward the Town of Buckeye.

DESCRIPTION OF AREA

White Tanks Flood Retarding Structure No. 3

The structure is located in Sections 4, 8, and 9, Township 2 North, Range 2 West, G & SRB & M, approximately 20 miles west of Phoenix and 12 miles northeast of Buckeye in Maricopa County.

The structure is a compacted earthfill embankment with a caliche and coarse gravel facing on the upstream and downstream surfaces, and crest. As shown in Figure 1, the dam consists of two segments; the southwesterly segment and the northerly segment which bends upstream parallel to the Beardsley Canal to merge with high ground on the gently sloping terrain adjacent to the wash. Total length of the dam is approximately 7,670 feet. The width of the dam varies from 10 feet at the crest, to a maximum of about 134 feet at the base. Maximum height above the streambed is approximately 29 feet. Upstream sideslopes of the dam are 2½ horizontal to 1 vertical, while downstream side slopes of the dam are 2 horizontal to 1 vertical.

The principal spillways (outlet works) of the structure consist of a 24-inch and a 48-inch corrugated metal pipe (CMP) located in the southwesterly segment of the dam, as well as a 48-inch CMP located in the northern segment. Each outlet is gated with the intake cut flush with the upstream face of the dam.

The single emergency spillway for the dam consists of a 800-foot wide curved channel excavated through the right abutment ridge. The crest elevation is approximately 1,209.0 feet above mean sea level.

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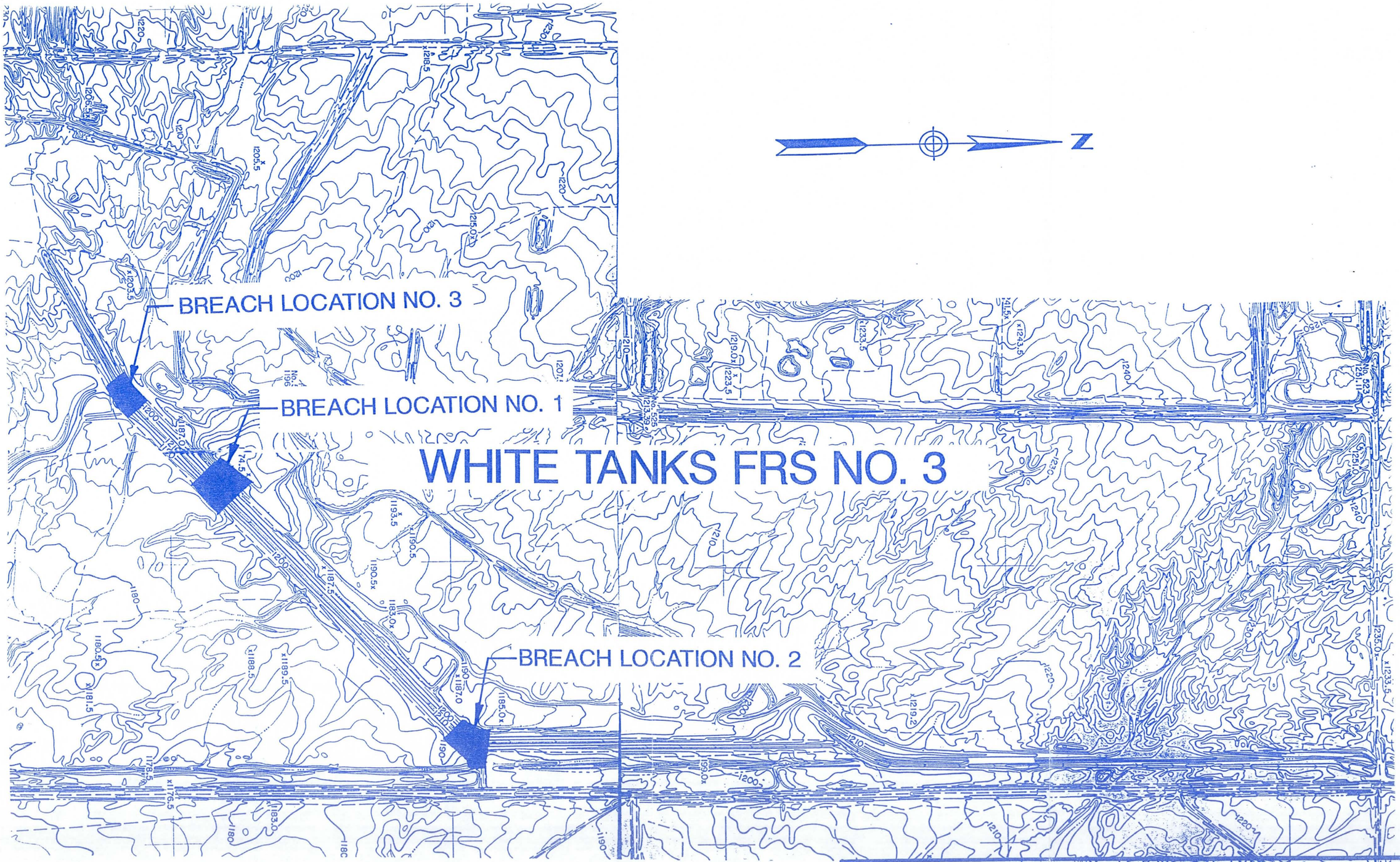

ACK ENGINEERS, INC.	REVISIONS: DES: DRW: CK'D: DATE:	FIGURE 1 BREACH LOCATIONS FOR WHITE TANKS FRS NO. 3
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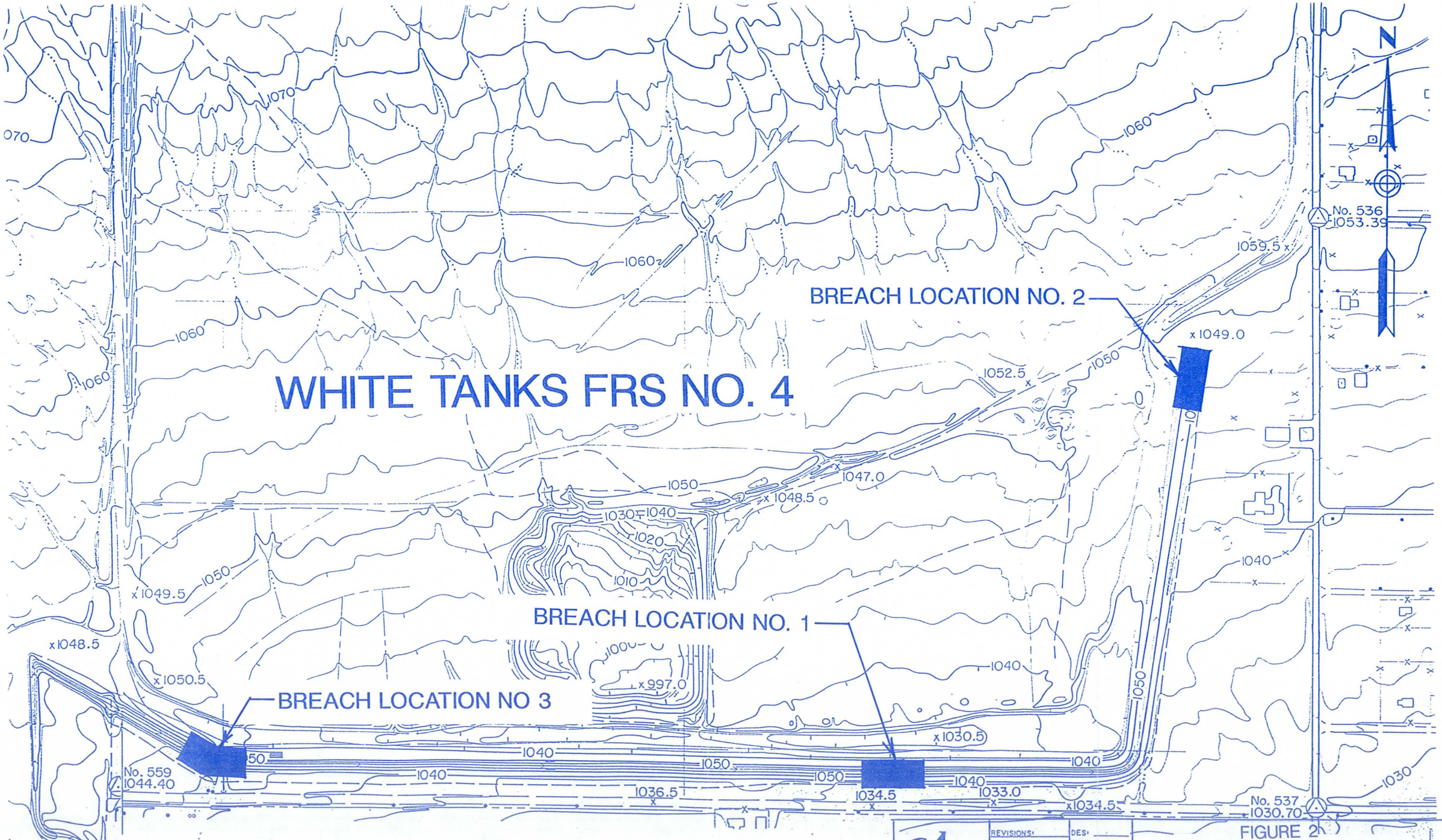
The most significant manmade feature upstream of this flood retarding structure is the Caterpillar Proving Grounds. The most significant manmade features downstream of the structure are the Beardsley Canal, I-10, Perryville State Prison Complex, and Roosevelt Canal. Downstream of the structure, natural drainage flows southeasterly towards the Gila River. There are no well-defined channels downstream, as most of the land is used for agriculture.

White Tanks Flood Retarding Structure No. 4

This structure is located in Sections 5 and 6, Township 1 North, Range 2 West, G & SRB & M, approximately 20 miles west of Phoenix and 7 miles northeast of Buckeye in Maricopa County.

The White Tanks FRS No. 4 is also a compacted earthfill embankment similar to White Tanks FRS No. 3. As shown in Figure 2, the structure also consists of two segments; one segment extends in the east-west direction and the other bends northerly to merge with the high ground on the gently sloping terrain. The total length of the dam is about 6,840 feet. The width of the dam varies from 10 feet at the crest, to a maximum of about 89 feet at the base. Maximum height above the streambed is about 20 feet. Both the upstream and downstream side slopes are 2 horizontal to 1 vertical.

The principal spillways (outlet works) of the structure consist of a 30-inch CMP located in the northern segment of the dam, and a 36-inch CMP located in the central segment. Both outlets are gated with the intake cut flush with the upstream face of the dam.



REVISIONS:	DES:	FIGURE 2
	DRW:	BREACH LOCATIONS FOR WHITE TANKS FRS NO. 4
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The dam includes two emergency spillways, one through each abutment. Each spillway has a bottom width of 165 feet, 1:1 side slopes, a flat crest for a distance of approximately 40 feet, an approach channel with an adverse grade of 0.002, and a downstream slope of 0.003. The approximate crest elevations of the north and west spillways are 1049.0 and 1048.5, respectively.

The most significant manmade feature upstream of this flood retarding structure is I-10. The most significant features downstream of the structure are Roosevelt Canal, Buckeye Canal, and the Southern Pacific Railroad. The natural drainage downstream of the structure flows southerly towards the Gila River. There are no well-defined channels downstream, as most of the land is used for agriculture.

DESIGN INFLOW

Based on the dam safety criteria, White Tanks FRS No. 3 and No. 4 were respectively classified by the Arizona Department of Water Resources (ADWR) as medium and small dams. In addition, because of the potential loss of lives and excessive property damage that could occur in the event of failure, both structures were classified by ADWR as high hazard potential. Therefore, according to ADWR and the District, the magnitudes of design inflow for White Tanks FRS No. 3 and No. 4 were determined to be the probable maximum flood (PMF) and one-half of the probable maximum flood (1/2 PMF), respectively.

The design inflows for White Tanks FRS No. 3 and No. 4 were estimated by the District in October 1989 and subsequently revised in June 1990. The results of the District's study are contained in Appendix G. The hydrologic analyses for the estimation of design inflows were performed by the District by use of the HEC-1 computer program. The results of the analyses are summarized below:

Description	White Tanks FRS No. 3	White Tanks FRS No. 4
Size Designation	Medium	Small
Hazard Designation	High	High
Design Inflow Magnitude	PMF	1/2 PMF
Peak Design Inflow (cfs)	41,554	22,820
Spillway Crest Elevation	1209.0	1048.5

METHODOLOGY

Dambreak Modeling

The dambreak analyses were performed by use of the DAMBRK-88 computer program developed by Dr. D.L. Fread (Reference 1). The program consists of three major functional steps.

The first step is routing the inflow hydrograph through the reservoir area using the dynamic wave technique, which simulates the positive and/or negative waves that would be expected to occur in a reservoir, and results in a more accurate outflow hydrograph than would be obtained by use of hydrologic routing techniques. The inflow hydrographs for both White Tanks FRS No. 3 and No. 4 were generated by the District with the aid of the HEC-1 computer program.

The second functional step is the development of the breach hydrograph, which is highly dependent upon conditions existing at the time of breach initiation, breach geometry and total time of breach formation. For this study, as instructed by the District, the water surface elevation in each case was assumed to be near the empty level when the computations commenced.

The third functional step in the DAMBRK modeling process is the routing of the outflow hydrograph through the downstream valley and the determination of peak elevations and flood discharges at points downstream. Similar to reservoir routing, the dynamic wave method was used in the program for the downstream routing. As opposed to other routing techniques available, only the dynamic wave method accounts for the acceleration effects associated with the dam-break waves and the influence of downstream unsteady backwater effects produced by channel constrictions and bridge-road embankments.

Breach Location and Scenarios

While countless number of scenarios regarding the dam breach geometry, location, and downstream effects can be conceived, an exhaustive analysis for each of them is not feasible. The purpose of this study is to model the extent of flooding which would result from the "worst case" scenario.

Since each of the flood retarding structures consists of a long embankment, three breach locations were analyzed for each structure. The breach locations were determined, as a joint effort with the District Staff, according to the risk involved in loss of life and properties in the downstream area.

At each breach location, four different elevations for the starting of each breach were examined to determine the worst case scenario. The four scenarios for each breach location were as follows:

1. A breach beginning when the water surface elevation is equal to the top of dam.
2. A breach beginning when the water surface reaches the maximum stage elevation (obtained from Reference 4 and its subsequent revisions).
3. A breach beginning when the water surface reaches the spillway crest elevation.
4. A breach beginning near the base of the dam.

For Breach Locations No. 2 and No. 3 of White Tanks FRS No. 4, the spillway crest is near the base of the dam. Therefore, Scenario 4 was not examined at these two locations.

Parameters of Breach Geometry

The primary parameters that govern the breach geometry are the failure time of breach and the bottom width of breach. The selection of these parameters is a subjective process. Normally, earthen dams do not tend to fail completely or instantaneously. As indicated in Reference 1, the breach widths tend to be between one and five times the depth of the water behind the dam, with the middle portion of this range being more common. However, this observation was derived from dams with constant water storage as opposed to flood control structures, where reservoirs are normally empty, and therefore subject to greater dynamic forces. The total time of failure may range from a few minutes to a few hours, depending upon the height of the dam, type of materials used in the construction, and the degree of compaction of these materials (Reference 1).

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Since the purpose of this study is to model the extent of flooding which would result from the worst case scenario, the parameters such as time of failure and size of breach were estimated on the conservative side of the range in order to produce a maximum outflow. A sensitivity test was performed by means of the BREACH computer model (Reference 2), for a wide range of breach geometry and failure times. The following values were selected for use in this study:

Parameters	White Tanks FRS No. 3	White Tanks FRS No. 4
Time of Failure (hrs)	1.0	0.25
Breach Bottom Width (ft)	275	275
Breach Side Slope	1:1	1:1

Details for determination of breach parameters are included in Appendix A of this report.

The spillway and storage data were obtained from the reports as listed in References 4, 5, and 6, and supplemented by the topographic maps furnished by the District (Reference 7).

Downstream Routing

The input data for routing the outflow hydrograph through the downstream areas contain the following parameters:

1. Cross-sectional data
2. Hydraulic resistance coefficients
3. Expansion and contraction coefficients

The cross-sectional information was obtained from the U.S.G.S. quadrangle maps. The hydraulic resistance coefficients, which virtually are Manning's n values, were estimated in accordance with the guidelines provided in References 9 and 10. The estimation of coefficients were subject to some degree of uncertainty in agricultural areas where water tends to flow not only down gradient, but also tends to concentrate in streets. This uncertainty is also related to the varying agricultural stages from season to season.
A more detailed description of the estimation of the Manning's "n" values used in the study can be found in Appendix B. Fortunately, in terms of computed discharges and elevations, DAMBRK is not highly sensitive to the parameter of hydraulic resistance coefficients. While the estimates of ineffective flow areas were largely based on professional judgement, they were considered to be reasonable.

In modeling the downstream effect of White Tanks FRS No. 3, it was assumed that all culverts under Interstate Highway 10 are blocked and that the embankment of Interstate Highway 10 would act as a dam and would be able to sustain the flood without collapsing. The outflow from the breach would pass through the openings of Citrus Road and Cotton Lane, and over the freeway embankments. The flow rating curves at I-10 are shown in Appendix B. After consultation with the District staff, it was further assumed, that for both flood retarding structures, the outflow would flow across Roosevelt Canal and run southerly toward the Gila River, instead of turning southwesterly along the Roosevelt Canal embankment to the Buckeye area. Summaries of the DAMBRK modeling results are included in Appendix C.

DISCUSSION OF RESULTS

As mentioned earlier, three or four breach scenarios were analyzed at each breach location. For White Tanks FRS No. 3, Scenario 3 (i.e., a breach begins when the water surface reaches the spillway crest) was invariably the worst scenario for each of the three breach locations. For White Tanks FRS No. 4, however, Scenario 2 (i.e., a breach begins when the water surface reaches the maximum stage) was found to be the worst scenario for all three breach locations.

White Tanks Flood Retarding Structure No. 3

Table 1 presents the major results for the three breach locations modeled at White Tanks FRS No. 3. the inundation areas corresponding to the three breach locations are shown on Plates 1 through 3. The DAMBRK computer output for the worst case scenario at Breach Location No. 2 is presented in Appendix D.

As indicated, the inundation areas derived from the three breach locations virtually coincide with one another between the section approximately one mile downstream of the dam and the Gila River. As shown in Table 1, the flood peaks are quickly reduced in the downstream sections as the flow spreads laterally. The flow depth and velocity increase drastically at I-10, as the flood water runs through a relatively confined cross-sectional area.

Two areas have been identified as being ineffective flow areas. One area is immediately east of Cotton Lane, where water must pond to approximately 3 feet in depth before flow will pass under Interstate 10 at Cotton Lane. The other area, at Cross Section 3.2, is a result of flow rising to a sufficient elevation to spill over into a slightly depressed area near Perryville Road. It is expected that the flow velocity in this area will be very low even at the maximum flow stage. A plot of this cross section has been included in Appendix F.

As shown in Appendix F, the combination plotting of flow depth and velocity at each downstream section indicates that the impact of the breach to downstream houses built on foundations would be alarmingly significant. This evaluation was based on the criteria presented in Reference 12.

The major public facilities that are expected to be damaged or have service interrupted due to failure of White Tanks FRS No. 3 are listed below:

1. Beardsley Canal
2. Perryville Prison
3. Interstate Highway 10 (I-10)
4. Roosevelt Canal
5. Town of Goodyear
6. Southern Pacific Railroad
7. Buckeye Canal

TABLE 1

Highlights of Results for DAMBRK Modeling at White Tanks FRS No. 3

Description	Breach Location No. 1	Breach Location No. 2	Breach Location No. 3
Water Surface Elev. at Beginning of Breach	1209.0	1209.0	1209.0
Peak Outflow at Dam (cfs)	76,292	97,378	73,977
Perryville Prison - Mile 4.25			
Maximum Flow (cfs)	68,650	85,632	67,861
Maximum Depth (feet)	3.76	4.00	3.71
Travel Time (hours)	1.80	1.80	1.84
Maximum Velocity (fps)	4.74	5.17	4.91
Interstate Highway 10 - Mile 5.45			
Maximum Flow (cfs)	45,217	54,716	47,757
Maximum Depth (feet)	10.65	11.16	10.81
Travel Time (hours)	2.70	2.52	2.72
Maximum Velocity (fps)	8.41	8.25	12.39
Roosevelt Canal - Mile 5.75			
Maximum Flow (cfs)	45,217	54,167	47,757
Maximum Depth (feet)	3.64	3.98	3.74
Travel Time (hours)	2.70	2.60	2.72
Maximum Velocity (fps)	5.65	6.04	5.84
Southern Pacific Railroad - Mile 9.25			
Maximum Flow (cfs)	45,303	52,971	46,306
Maximum Depth (feet)	3.91	4.17	3.98
Travel Time (hours)	3.61	3.50	3.68
Maximum Velocity (fps)	3.54	3.77	3.63
Gila River - Mile 11.25			
Maximum Flow (cfs)	37,353	42,100	39,935
Maximum Depth (feet)	4.37	4.59	4.54
Travel Time (hours)	4.70	4.50	4.72
Maximum Velocity (fps)	3.69	3.81	3.76

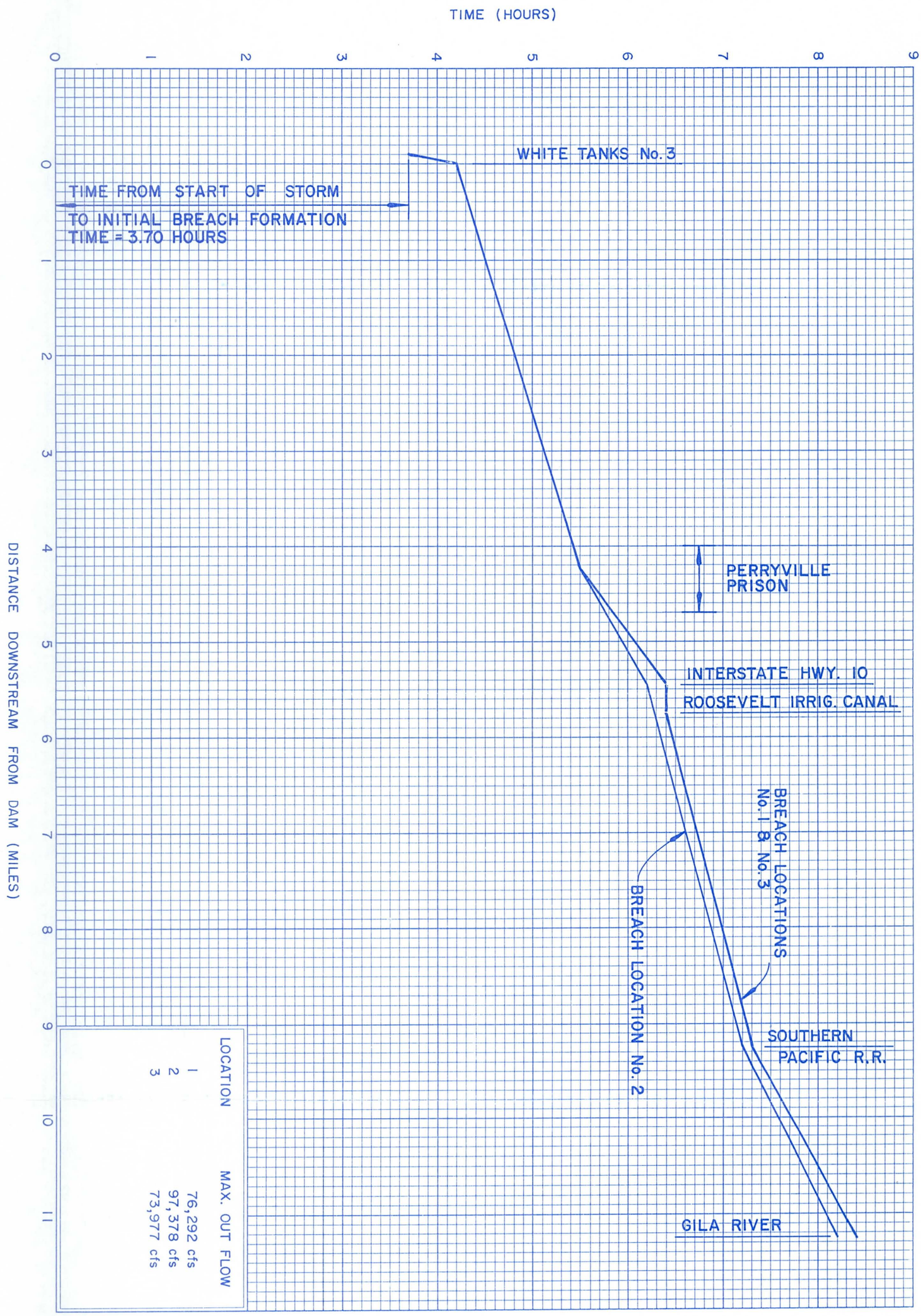

FIGURE 3

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TRAVEL TIME OF PEAK FLOW

WHITE TANKS F.R.S. No. 3

The travel times for flooding from the breach location to various public facilities are indicated in Table 1 and Figure 3.

White Tanks Flood Retarding Structure No. 4

Table 2 presents the major results for the three breach locations modeled at White Tanks FRS No. 4. The inundation areas corresponding to the three breach locations are shown on Plates 4 through 6. The DAMBRK computer output for the worst scenario at Breach Location No. 1 is presented in Appendix E.

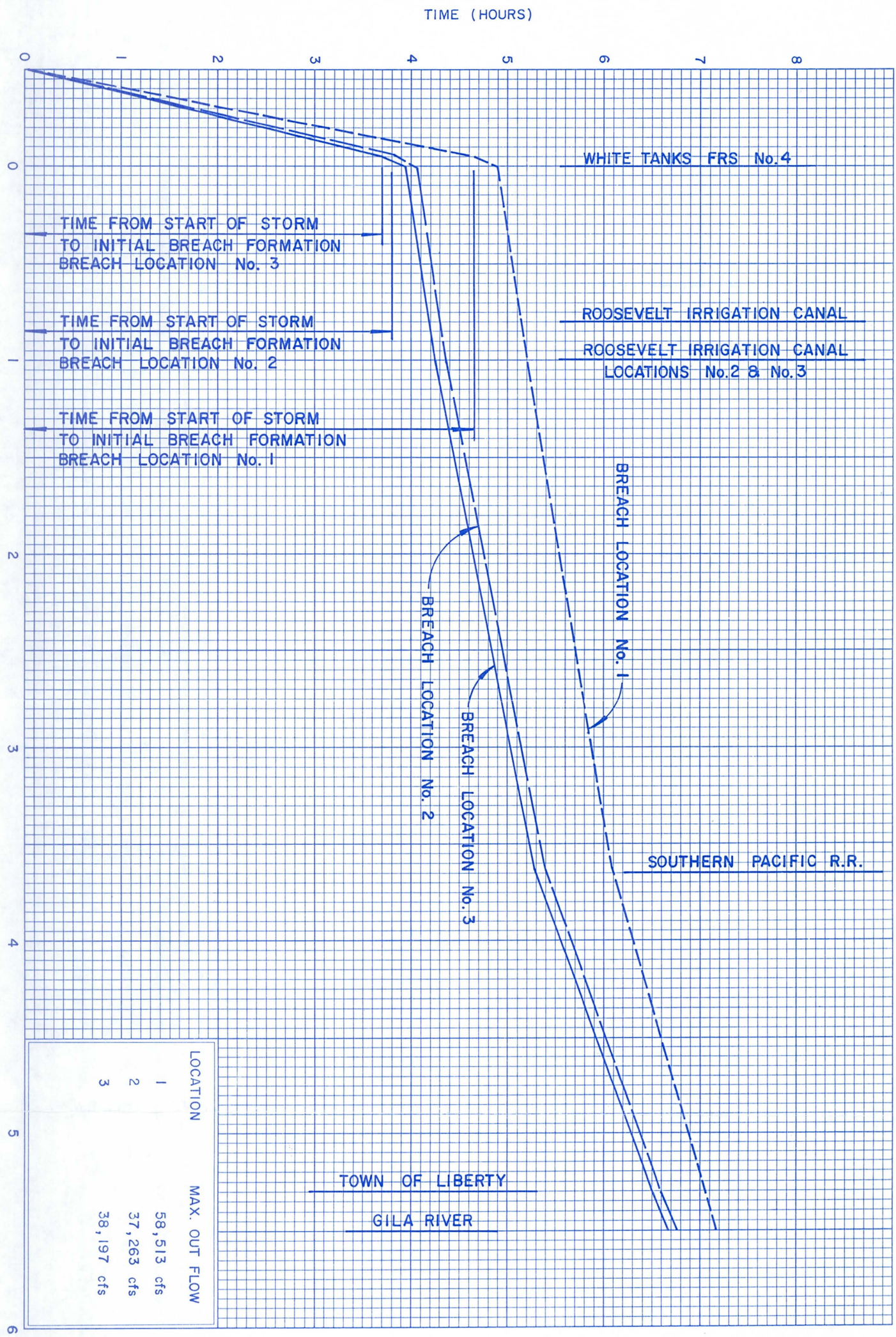
Similar to the situation for White Tanks FRS No. 3, the inundation areas derived from the three breach locations for White Tanks FRS No. 4, also coincide with one another between Roosevelt Canal and the Gila River. As shown in Table 2, the flood peaks are also quickly reduced in the downstream sections as the flow spreads laterally. In addition, the flow velocity decreases as the flood water travels in the downstream direction.

As shown in Appendix F, according to the criteria developed by the U.S. Bureau of Reclamation (Reference 12), the combination plotting of flow depth and velocity indicates that the impact of the breach to downstream houses built on foundations is mainly in the judgment zone or the low-danger zone.

TABLE 2

Highlights of Results for DAMBRK Modeling at White Tanks FRS No. 4

Description	Breach Location No. 1	Breach Location No. 2	Breach Location No. 3
Water Surface Elev. at Beginning of Breach	1053.0	1053.0	1053.0
Peak Outflow at Dam (cfs)	58,513	37,263	38,197
Roosevelt Canal - Mile 0.80			
Maximum Flow (cfs)	49,081	30,845	32,248
Maximum Depth (feet)	1.78	1.28	1.32
Travel Time (hours)	0.50	0.55	0.55
Maximum Velocity (fps)	4.78	4.54	4.60
Southern Pacific Railroad - Mile 3.62			
Maximum Flow (cfs)	36,105	24,580	24,325
Maximum Depth (feet)	3.63	3.16	3.16
Travel Time (hours)	1.45	1.60	1.59
Maximum Velocity (fps)	3.63	3.33	3.42
Town of Liberty - Mile 5.3			
Maximum Flow (cfs)	24,008	16,554	16,467
Maximum Depth (feet)	2.82	2.36	2.36
Travel Time (hours)	2.40	2.80	2.83
Maximum Velocity (fps)	2.48	2.20	2.22
Gila River - Mile 5.5			
Maximum Flow (cfs)	23,124	16,033	15,944
Maximum Depth (feet)	1.53	1.11	1.17
Travel Time (hours)	2.55	3.00	3.01
Maximum Velocity (fps)	2.57	2.27	2.20



LOCATION	MAX. OUT FLOW
1	58,513 cfs
2	37,263 cfs
3	38,197 cfs

FIGURE 4

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TRAVEL TIME OF PEAK FLOW

WHITE TANKS F.R.S. No. 4

The major public facilities that are expected to be damaged or have service interrupted due to a failure of White Tanks FRS No. 4 are listed below:

1. Roosevelt Canal
2. Southern Pacific Railroad
3. Buckeye Canal
4. Community of Liberty

The travel times for flooding from the breach location to various public facilities are indicated in Table 2 and Figure 4.

CONCLUSIONS

This report presents the results of an analysis of the downstream flooding which would occur following the failure of White Tanks FRS No. 3 and No. 4. Several breach locations and scenarios were modeled for this analysis. The projected areas of inundation are presented on Plates 1 through 6.

Because of the high degree of agriculture and the lack of a defined channel in the downstream area, the flood wave quickly spreads laterally. The travel time of the water does allow a small window for warning, but would make evacuation difficult. The potential for loss of life exists and destruction of property is unavoidable in any case. In the aftermath of the flooding, rescue and relief efforts would be hampered by the destruction of portions of roads. The destruction of electrical, telephone, water and sewage utilities in the affected area is also likely.

In the future, as expected development in the area takes place, the potential for destruction increases. Therefore, a re-analysis of conditions should be conducted within five years.

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APPENDIX A

Determination of Breach Parameters

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SHEET _____ OF _____
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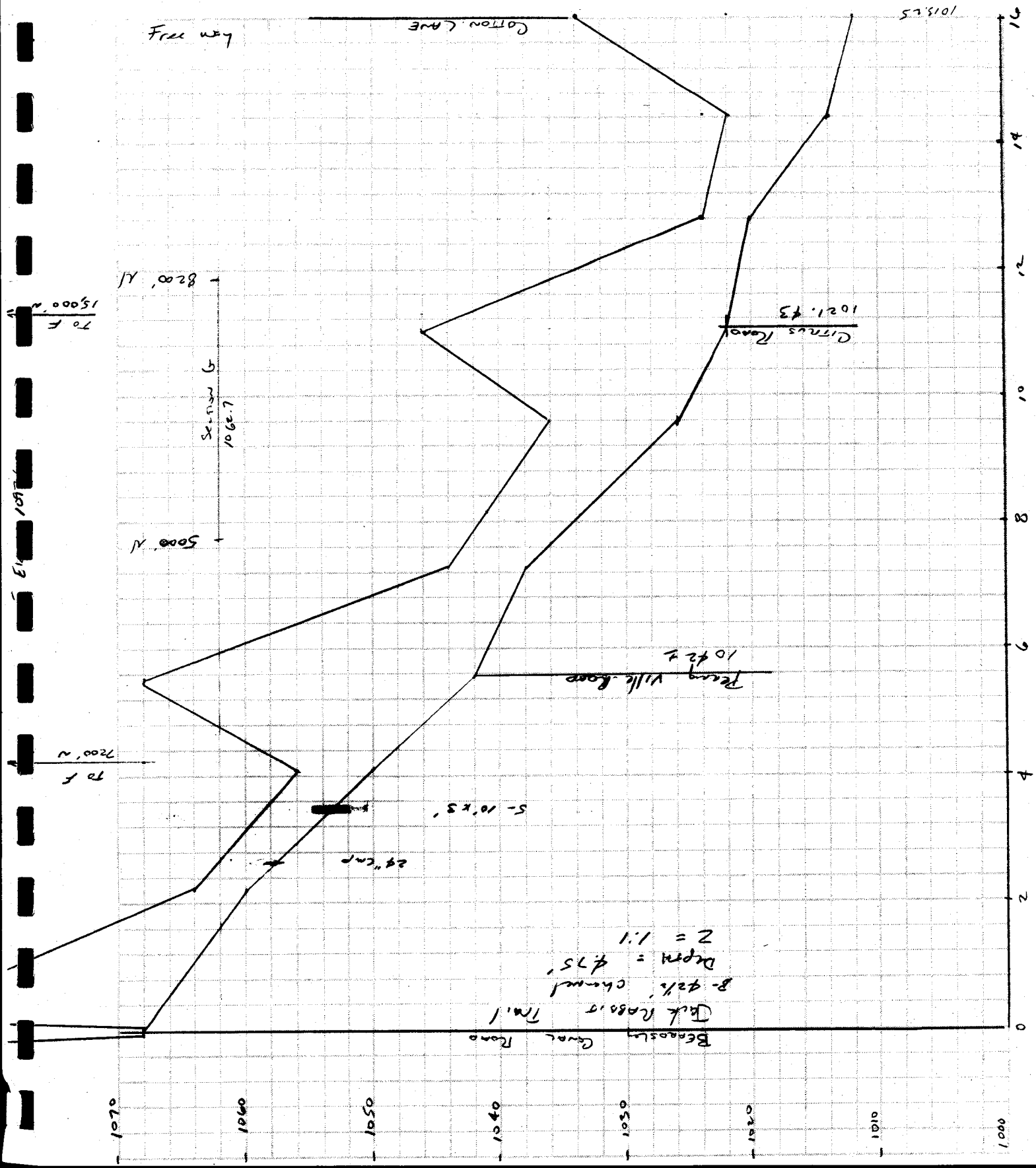
CLIENT: McFCD
JOB: WT 3
JOB NO. _____



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SHEET _____ OF _____
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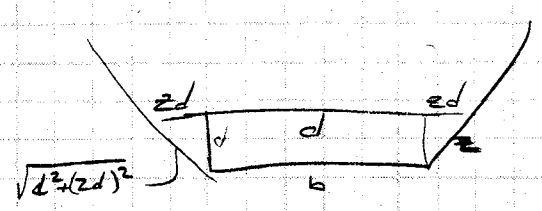
JOB _____ JOB NO. _____

$$Q = \frac{1.486}{.020\,N} A R^{2/3} S^{1/2}$$

where $R = A/P$

$A = bd + zd^2$

$P = 2\sqrt{d^2 + (zd)^2} + B$




```
LBL M
INPUT B
INPUT N
INPUT S
INPUT Z
INPUT d

RCL D
X²
RCL Z
*
RCL D
RCL B
*
+
STO A

RCL D
X²
RCL D
RCL Z
*
X²
+
√
2
*
RCL B
+
STO P
```

Calc Area

Perimeter

```
RCL A
RCL P
÷
STO R

1.486
RCL N
÷
RCL R
.667
Y^X
*
RCL S
√
*
STO V
RCL A
*
STO Q
VIEW Q
LBL /RTN
```

Calc R

N Value Determination

We have enclosed copies of the cited references with the values used highlighted. The N values were selected based on the following criteria:

1. The agricultural land is primarily used for a seasonal crop (cotton). The associated N values will vary dramatically by the time of year. The N value selected is representative of an average value that includes both the cultivation, planting, and early plant development seasons, as well as the maturing and harvest seasons. The maximum depth of flow is expected to be greater than the height of the mature crop.

2. The non-agricultural land has fairly sparse vegetation. In addition, the vegetation is close to the ground, with the majority of it being subject to complete submergence based on predicted maximum flood wave depths.

3. The intent of this analysis is to develop a reasonable "worst case" estimation of what a potential failure of these two structures would have on areas downstream from them, so that this information can be used to develop emergency response plans. The implementation of any emergency response plan is primarily governed by time. Therefore, N values that were on the lower end (minimum) of the acceptance range for the various land uses were selected. The selection of lower N values results in a shorter and more conservative time of travel for the flood wave.

TABLE 5-6. VALUES OF THE ROUGHNESS COEFFICIENT n (*continued*)

Type of channel and description	Minimum	Normal	Maximum
C. EXCAVATED OR DREDGED			
a. Earth, straight and uniform			
1. Clean, recently completed	0.016	0.018	0.020
2. Clean, after weathering	0.018	0.022	0.025
3. Gravel, uniform section, clean	0.022	0.025	0.030
4. With short grass, few weeds	0.022	0.027	0.033
b. Earth, winding and sluggish			
1. No vegetation	0.023	0.025	0.030
2. Grass, some weeds	0.025	0.030	0.033
3. Dense weeds or aquatic plants in deep channels	0.030	0.035	0.040
4. Earth bottom and rubble sides	0.028	0.030	0.035
5. Stony bottom and weedy banks	0.025	0.035	0.040
6. Cobble bottom and clean sides	0.030	0.040	0.050
c. Dragline-excavated or dredged			
1. No vegetation	0.025	0.028	0.033
2. Light brush on banks	0.035	0.050	0.060
d. Rock cuts			
1. Smooth and uniform	0.025	0.035	0.040
2. Jagged and irregular	0.035	0.040	0.050
e. Channels not maintained, weeds and brush uncut			
1. Dense weeds, high as flow depth	0.050	0.080	0.120
2. Clean bottom, brush on sides	0.040	0.050	0.080
3. Same, highest stage of flow	0.045	0.070	0.110
4. Dense brush, high stage	0.080	0.100	0.140
D. NATURAL STREAMS			
D-1. Minor streams (top width at flood stage <100 ft)			
a. Streams on plain			
1. Clean, straight, full stage, no rifts or deep pools	0.025	0.030	0.033
2. Same as above, but more stones and weeds	0.030	0.035	0.040
3. Clean, winding, some pools and shoals	0.033	0.040	0.045
4. Same as above, but some weeds and stones	0.035	0.045	0.050
5. Same as above, lower stages, more ineffective slopes and sections	0.040	0.048	0.055
6. Same as 4, but more stones	0.045	0.050	0.060
7. Sluggish reaches, weedy, deep pools	0.050	0.070	0.080
8. Very weedy reaches, deep pools, or floodways with heavy stand of timber and underbrush	0.075	0.100	0.150

TABLE 5-6. VALUES OF THE ROUGHNESS COEFFICIENT n (*continued*)

Type of channel and description	Minimum	Normal	Maximum
b. Mountain streams, no vegetation in channel, banks usually steep, trees and brush along banks submerged at high stages			
1. Bottom: gravels, cobbles, and few boulders	0.030	0.040	0.050
2. Bottom: cobbles with large boulders	0.040	0.050	0.070
D-2. Flood plains			
a. Pasture, no brush			
1. Short grass	0.025	0.030	0.035
2. High grass	0.030	0.035	0.050
b. Cultivated areas			
1. No crop	0.020	0.030	0.040
2. Mature row crops	0.025	0.035	0.045
3. Mature field crops	0.030	0.040	0.050
c. Brush			
1. Scattered brush, heavy weeds	0.035	0.050	0.070
2. Light brush and trees, in winter	0.035	0.050	0.060
3. Light brush and trees, in summer	0.040	0.060	0.080
4. Medium to dense brush, in winter	0.045	0.070	0.110
5. Medium to dense brush, in summer	0.070	0.100	0.160
d. Trees			
1. Dense willows, summer, straight	0.110	0.150	0.200
2. Cleared land with tree stumps, no sprouts	0.030	0.040	0.050
3. Same as above, but with heavy growth of sprouts	0.050	0.060	0.080
4. Heavy stand of timber, a few down trees, little undergrowth, flood stage below branches	0.080	0.100	0.120
5. Same as above, but with flood stage reaching branches	0.100	0.120	0.160
D-3. Major streams (top width at flood stage >100 ft). The n value is less than that for minor streams of similar description, because banks offer less effective resistance.			
a. Regular section with no boulders or brush	0.025	.....	0.060
b. Irregular and rough section	0.035	.....	0.100

V.T. CHOW

United States
Department of the Interior
Geological Survey

Roughness coefficients for stream channels in Arizona

By

B. N. Aldridge and J. M. Garrett

Prepared in cooperation with
the Arizona Highway Department

Open-file report

Tucson, Arizona
February 1973

Table 3. --Values of "n" for constructed channels and flood plains
(Modified from Chow, 1959)

Type of channel and description	"n" value		
	Minimum	Normal	Maximum
A. LINED OR BUILT-UP CHANNELS			
a. Concrete			
1. Finished	0.011	0.015	0.016
2. Unfinished	.014	.017	.020
b. Gravel bottom with sides of			
1. Formed concrete	.017	.020	.025
2. Random stone in mortar	.020	.023	.026
3. Dry rubble or riprap	.023	.033	.036
c. Vegetal lining	.030	----------	.500
B. EXCAVATED OR DREDGED CHANNELS			
a. Earth, straight and uniform			
1. Clean, after weathering	.018	.022	.025
2. Gravel, uniform section, clean	.022	.025	.030
3. With short grass, few weeds	.022	.027	.033
b. Earth, winding and sluggish			
1. No vegetation	.023	.025	.030
2. Grass, some weeds	.025	.030	.033
3. Dense weeds or aquatic plants in deep channels	.030	.035	.040
4. Earth bottom and rubble sides	.028	.030	.035
5. Stony bottom and weedy banks	.025	.035	.040
6. Cobble bottom and clean sides	.030	.040	.050
c. Dragline-excavated or dredged			
1. No vegetation	.025	.028	.033
2. Light brush on banks	.035	.050	.060
d. Rock cuts			
1. Smooth and uniform	.025	.035	.040
2. Jagged and irregular	.035	.040	.050
e. Channels not maintained, weeds and brush uncut			
1. Dense weeds, high as depth of flow	.050	.080	.120
2. Clean bottom, brush on sides	.040	.050	.080
3. Dense brush, high stage	.080	.100	.140
C. FLOOD PLAINS			
a. Pasture, on smooth ground, no brush[1]			
1. Short grass	.025	.030	.035
2. High grass	.030	.035	.050
b. Cultivated areas[1]			
1. No crop	.020	.030	.040
2. Mature row crops, such as small vegetables	.025	.030	.045
3. Mature field crops, depth of flow at least twice the height of vegetation	.030	.040	.050
4. Dense field crops in full leaf, such as corn or cotton, depth of flow less than height of vegetation	.050	----------	.100
c. Brush[1]			
1. Scattered brush, heavy weeds	.035	.050	.070
2. Light brush and trees, in winter	.035	.050	.060
3. Light brush and trees, in summer	.040	.060	.080
4. Medium to dense brush, in winter	.045	.070	.110
5. Medium to dense brush, in summer	.070	.100	.160
d. Trees			
1. Cleared land with tree stumps, no sprouts	.030	.040	.050
2. Same as 1 with heavy growth of sprouts	.050	.060	.080
3. Heavy stand of timber, few down trees, little undergrowth, stage below branches	.060	.080	.120
4. Same as 3, but with stage reaching branches	.080	.100	.160
5. Dense willow, mesquite, and saltcedar	.100	.150	.200

1/ Shallow depths accompanied by an irregular ground surface in pastureland or brushland and by deep furrows perpendicular to the flow in cultivated fields can increase the "n" values by as much as 0.02.

DETERMINATION OF BREACH PARAMETERS

The determination of breach parameters was achieved by use of two independent approaches. One approach was based on the empirical equations given in Reference 1, while the other was based on the BREACH computer program developed by the National Weather Service (Reference 2).

By Empirical Equations

The average breach width and time of failure were first computed on the basis of Equations 4 and 5. They were then modified by another pair of equations listed as Equations 6 and 7 in Reference 1. The modification process involved a series of trial-and-error computations until the results from Equations 4 and 5 were nearly the same as that from Equations 6 and 7. Results of this analysis indicate that for both flood retarding structures, the average breach width is about 275 feet. The time of failure for White Tanks FRS No. 3 is about 1.0 hours and for White Tanks FRS No. 4, about 0.25 hour.

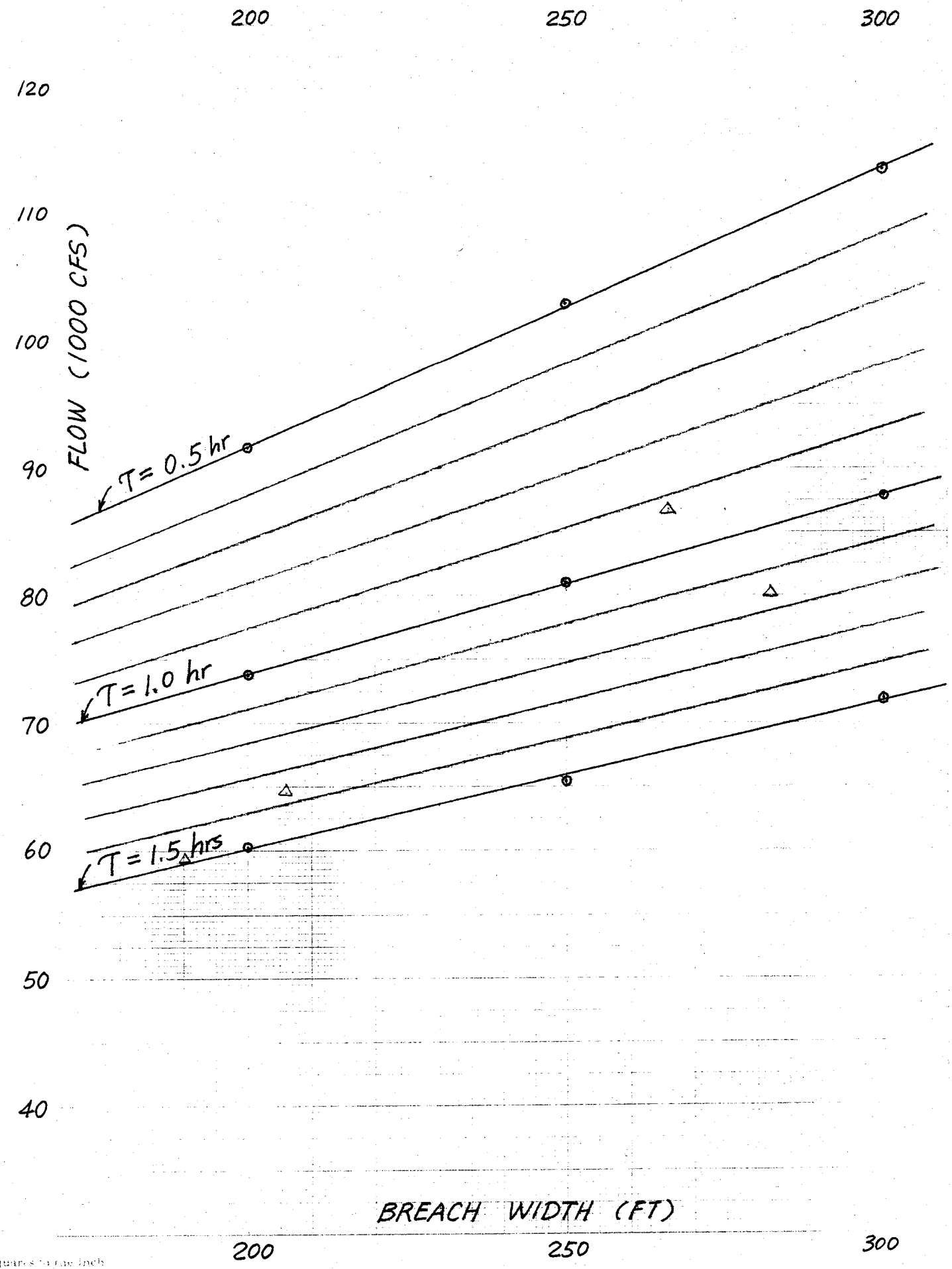
By BREACH Computer Program

Results from the BREACH computer analysis indicate a wide range of values for breach width and time of failure, depending on the initial conditions and breach elevations. Some of the output printouts are included in this Appendix.

A sensitivity analysis was performed by use of the DAMBRK computer program. As shown on the attached plotting, the peak flow appears to be less sensitive to breach width than to time of failure. For example, when time of failure is held at 1.0 hour, the difference of peak discharges between breach width of 200 feet and 250 feet is only about 7,000 cfs, which amounts to less than 10 percent of the total peak. On the other hand, however, increase of peak discharge as a result of shortening time of failure would appear to be significantly drastic.

To apply the BREACH program involves a great deal of subjective selection of geotechnical parameters. With the lack of detailed information on embankment construction materials, the validity of the results are questionable.

In as much as the purpose of this study is to provide information on the extent of flooding that would result from a dam failure so as to prevent the loss of life, the model parameters should be estimated on the conservative side in order to produce a maximum outflow. Therefore, the time of failure was assumed to be relatively short and the size of the breach opening was assumed to be relatively large.


200
250
300
120
110
100
90
80
70
60
50
40
FLOW (1000 CFS)
T = 0.5 hr
T = 1.0 hr
T = 1.5 hrs
BREACH WIDTH (FT)
200
250
300

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BY SEK DATE 7/90

CHECK _____ DATE _____

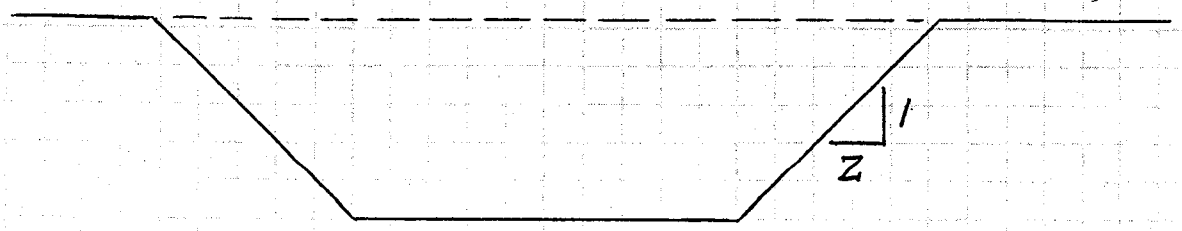
CLIENT FCDMC

JOB WT3

JOB NO. 310.41

BREACH PARAMETERS ESTIMATION

@ Location No. 2 (Worst Condition)



Average Breach Width (ft) $\bar{b} = 9.5\, k_o\, (V_r\, h_d)^{0.25}$

Time of Failure (hrs) $\tau = 0.8\, (V_r/h_d^2)^{0.50}$

Where k_o = 1.0 for piping and 1.4 for overtopping

V_r is volume (acre-ft)

h_d is the height (ft) of water over the breach bottom which is usually about the height of the dam.

Based on the FCDMC HEC-1 results, the max. W.S. Elev. = 1213.10

$h_d = 1213.10 - 1185.1 = 28.0$ (BOT ELV)

$V_r = 3250$ Ac-ft @ EL = 1213.10 (From FCDMC's Report)

$K_o = 1.0$ $\bar{b} = 9.5 \times 1.0\,(3250 \times 28)^{0.25} = 9.5 \times 17.4 = 165'$

$T = 0.8\,[3250/(28)^2]^{0.5} = 1.63$ hrs.

(Try $\bar{b} = 200'$ & $T = 1.5$ hrs.)

BREACH PARAMETERS ESTIMATION (Cont.)

A way of checking the reasonableness of the breach parameters ($\bar{b}$ and τ) is to use the following the equations:

$$Q_p^* = 370\ (V_r\ h_d)^{0.5}/1.3$$

$$Q_p = 3.1\ \bar{b}\ \left(\frac{C}{\tau + C/\sqrt{h_d}}\right)^3$$

in which Q_p^* and Q_p are the expected peak discharge (cfs) through the breach, V_r and h_d are the reservoir volume (acre-ft) and height (ft) of dam, respectively and $C = 23.4\ A_s/\bar{b}$ in which A_s is the surface area (acres) of the reservoir at the top of the dam.

$$Q_p^* = \frac{370}{1.3}(3250 \times 28)^{0.5} = 85,860 \text{ cfs}$$

$$C = 23.4\left(\frac{350}{200}\right) = 41.0$$

$$Q_p = 3.1 \times 200\left(\frac{41.0}{1.5 + \frac{41.0}{\sqrt{28}}}\right)^3 = 3.1 \times 200 \times 87.1 = 54,020 \text{ cfs}$$

Since $Q_p << Q_p^*$, Try $\bar{b} = 275'$ & $T = 1.0$ hr., $C = 30.0$

$$Q_p = 3.1 \times 275\left(\frac{30.0}{1.0 + \frac{30.0}{\sqrt{28}}}\right)^3 = 3.1 \times 275 \times 91 = 77,590 \text{ cfs}$$

Since $Q_p \approx Q_p^*$ Use $\bar{b} = 275'$ & $T = 1.0$ hr.

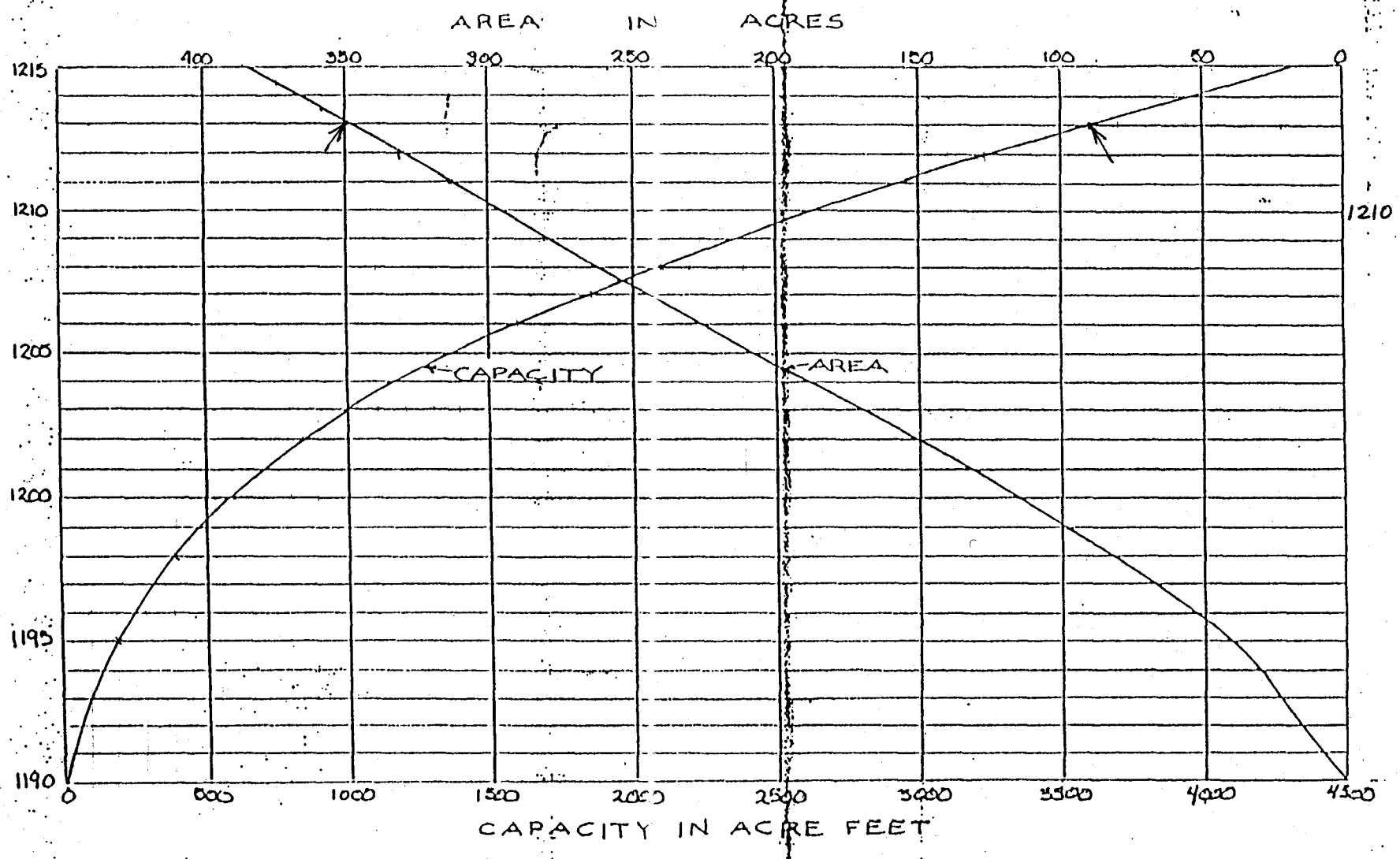


FIG. D-3. AREA & CAPACITY CURVES - STRUCTURE NO. 3

Figure D-3
Area apacity Curves White Tanks #3

Sht. 3 of 3

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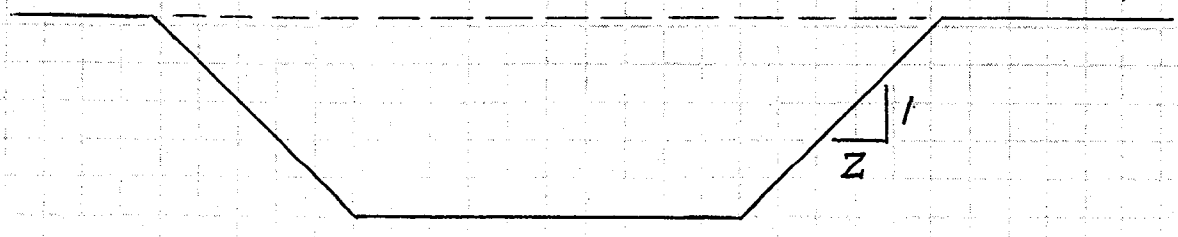
CLIENT FCDMC

JOB WT4

JOB NO. 310.41

BREACH PARAMETERS ESTIMATION

@ Location No. 1 (Worst Condition)



Average Breach Width (ft) $\bar{b} = 9.5\, k_o\, (V_r\, h_d)^{0.25}$

Time of Failure (hrs) $\tau = 0.8\, (V_r/h_d^2)^{0.50}$

Where k_o = 1.0 for piping and 1.4 for overtopping

V_r is volume (acre-ft)

h_d is the height (ft) of water over the breach bottom which is usually about the height of the dam.

Based on FCDMC's HEC-1 results, max. W.S. Elev. = 1053.20

$\therefore\ h_d = 1053.20 - 1036.40 = 16.8'$

$V_r = 1{,}920$ Ac-Ft @ EL = 1053.20 (From FCDMC's Report)

$K_o = 1.0$, $\bar{b} = 9.5 \times 1.0\,(1920 \times 16.8)^{0.25} = 127'$

$$T = 0.8\left(\frac{1920}{16.8^2}\right)^{0.50} = 2.1 \text{ hrs.}$$

BREACH PARAMETERS ESTIMATION (Cont.)

A way of checking the reasonableness of the breach parameters ($\bar{b}$ and τ) is to use the following the equations:

$$Q_p^* = 370\ (V_r\ h_d)^{0.5}/1.3$$

$$Q_p = 3.1\ \bar{b}\ \left(\frac{C}{\tau + C/\sqrt{h_d}}\right)^3$$

in which Q_p^* and Q_p are the expected peak discharge (cfs) through the breach, V_r and h_d are the reservoir volume (acre-ft) and height (ft) of dam, respectively and $C = 23.4\ A_s/\bar{b}$ in which A_s is the surface area (acres) of the reservoir at the top of the dam.

$$Q_p^* = 370\ (1920 \times 16.8)^{0.5}/1.3 = 51,120 \text{ cfs}$$

$$C = 23.4\left(\frac{209}{127}\right) = 38.5$$

$$Q_p = 3.1 \times 127\left(\frac{38.5}{2.1 + \frac{38.5}{\sqrt{16.8}}}\right)^3 = 3.1 \times 127 \times 37.6 = 14,800 \text{ cfs}$$

Since $Q_p << Q_p^*$ Try $\bar{b} = 275'$ and $T = 0.25$ hr.

$$C = 23.4\left(\frac{207}{275}\right) = 17.8$$

$$Q_p = 3.1 \times 275\left(\frac{17.8}{0.25 + \frac{17.8}{\sqrt{16.8}}}\right)^3 = 3.1 \times 275 \times 58.4 = 49,800 \text{ cfs}$$

Since $Q_p \approx Q_p^*$ Use $\bar{b} = 275'$ and $T = 0.25$ hr.

Figure D-4
Stage-Storage-Discharge Curves
for White Tanks #4

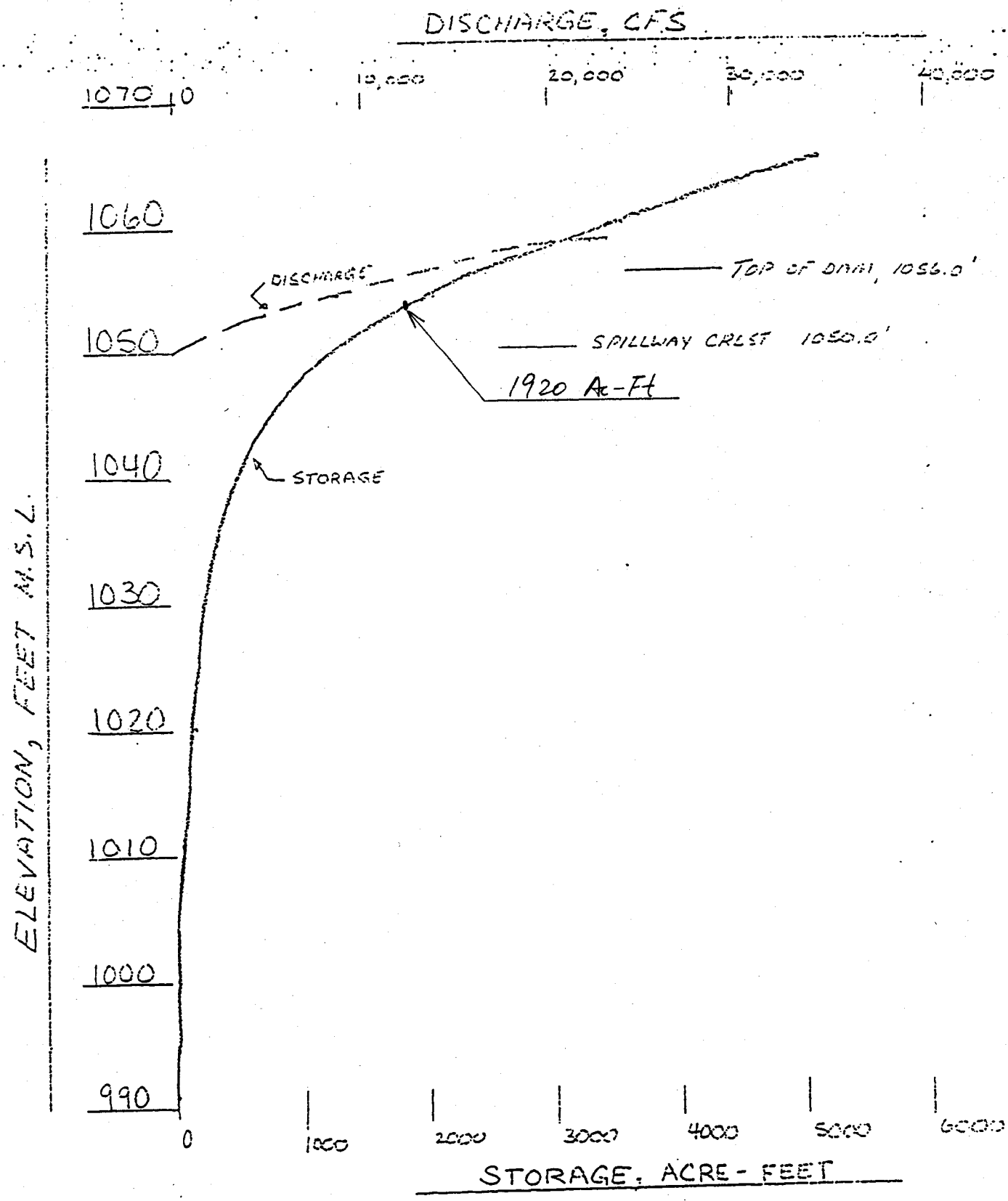


FIGURE 3 STAGE-STORAGE AND STAGE DISCHARGE RELATIONSHIPS FOR WHITE TANKS #4 FRS.

WHITE TANK FRS #3 BREACH PARAMETER ESTIMATION WT3BR2A.DAT

HI= 1209.50 HU= 1214.70 HL= 1190.50 HPI= 1190.50 HSP= .00 PI

(QIN(I),I=1,8)

.00	400.00	41554.00	23139.00	7478.00	1300.00	196.00	.00

(TIN(I),I=1,8)

.00	2.25	3.25	5.00	7.25	8.75	11.00	23.75

(RSA(I),I=1,8)

419.00	377.10	339.40	305.50	274.90	156.10	131.90	66.00

(HSA(I),I=1,8)

1216.00	1214.00	1212.00	1210.00	1206.00	1202.00	1196.00	1190.00

(HSTW(I),I=1,8)

1184.00	1186.00	1188.00	1190.00	1190.50	.00	.00	.00

(BSTW(I),I=1,8)

240.00	660.00	1320.00	2200.00	2900.00	.00	.00	.00

(CMTW(I),I=1,8)

.04	.03	.03	.03	.03	.00	.00	.00

ZU= 3.00 ZD= 2.50 ZC= .00 GL= .00 GS= .00 VMP= .00

D50C= .00 PORC= .00 UWC= .00 CNC= .0000 AFRC= .00 COHC= .0 UN

D50S= .07 PORS= .24 UWS=125.00 CNS=2.0000 AFRS= 30.00 COHS= 100.0 UN

BR= 1.00 WC= 15.0 CRL= 7000.0 SM= 37.00 D50DF= .07 UNFCDF= 87.00 BM

DTH= .100 DBG= .001 H= .0000 TEH= 15.0 ERR= .50 FPT= .0 TPR

AFR= .0 TH1= 60.00 H1= 5.54 TH2= 45.00 H2= 17.91 TH3= 37

1

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
1	.025	.025	4	0	326.	0.	326.40	1.000	3.3	1209.5	11
2	.050	.025	4	0	829.	0.	829.39	1.000	5.1	1209.5	11
3	.075	.025	4	0	1283.	0.	1283.07	1.000	6.3	1209.5	11
4	.100	.025	4	0	1748.	0.	1747.67	1.000	7.4	1209.5	11
5	.125	.025	4	0	2232.	0.	2231.70	1.000	8.3	1209.5	11
6	.150	.025	4	0	2714.	0.	2714.15	1.000	9.2	1209.5	11
7	.175	.025	4	0	3200.	0.	3199.64	1.000	10.0	1209.4	11
8	.200	.025	4	0	3686.	0.	3685.79	1.000	10.8	1209.4	11
9	.225	.025	4	0	4161.	0.	4160.91	1.000	11.5	1209.4	11
10	.250	.025	4	0	4627.	0.	4627.17	1.000	12.1	1209.4	11
11	.275	.025	4	0	5084.	0.	5083.66	1.000	12.8	1209.3	11
12	.300	.025	4	0	5530.	0.	5529.65	1.000	13.3	1209.3	11
13	.325	.025	4	0	5965.	0.	5964.59	1.000	13.9	1209.3	11
14	.350	.025	4	0	6388.	0.	6388.20	1.000	14.4	1209.2	11
15	.375	.025	4	0	6800.	0.	6800.24	1.000	14.9	1209.2	11
16	.400	.025	4	0	7201.	0.	7200.58	1.000	15.4	1209.1	11
17	.425	.025	4	0	7589.	0.	7589.09	1.000	15.8	1209.1	11
18	.450	.025	4	0	7962.	0.	7961.82	1.000	16.2	1209.0	11
19	.475	.025	4	0	8326.	0.	8325.63	1.000	16.7	1209.0	11

20	.500	.025	4	0	8678.	0.	8677.56	1.000	17.0	1208.9	11
21	.525	.025	4	0	9018.	0.	9018.02	1.000	17.4	1208.9	11
22	.550	.025	4	0	9347.	0.	9346.96	1.000	17.8	1208.8	11
23	.575	.025	4	0	9664.	0.	9664.44	1.000	18.1	1208.7	11
24	.600	.025	4	0	9971.	0.	9970.55	1.000	18.5	1208.7	11
25	.625	.025	4	0	10265.	0.	10265.49	1.000	18.8	1208.6	11
26	.650	.025	4	0	10549.	0.	10549.23	1.000	19.1	1208.5	11
27	.675	.025	4	0	10822.	0.	10822.05	1.000	19.4	1208.4	11
28	.700	.025	4	0	11084.	0.	11083.96	1.000	19.7	1208.4	11
29	.725	.025	4	0	11335.	0.	11334.99	1.000	20.0	1208.3	11
30	.750	.025	4	0	11575.	0.	11575.49	1.000	20.2	1208.2	11
31	.775	.025	4	0	11806.	0.	11805.51	1.000	20.5	1208.1	11
32	.800	.025	4	0	12025.	0.	12025.18	1.000	20.7	1208.1	11
33	.825	.025	4	0	12235.	0.	12234.62	1.000	21.0	1208.0	11
34	.850	.025	4	0	12434.	0.	12434.00	1.000	21.2	1207.9	11
35	.875	.025	4	0	12624.	0.	12623.58	1.000	21.4	1207.8	11
36	.900	.025	4	0	12803.	0.	12803.36	1.000	21.6	1207.7	11
37	.925	.025	4	0	12974.	0.	12973.56	1.000	21.8	1207.6	11
38	.950	.025	4	0	13134.	0.	13134.35	1.000	22.0	1207.5	11
39	.975	.025	4	0	13286.	0.	13285.81	1.000	22.2	1207.4	11

PIPE FLOW TO WEIR FLOW TRANSITION

KSLUMP= 2 HCK= 20.44 DELT= .06 DEL= 45.00

41	1.025	.025	3	0	14935.	0.	14934.79	1.000	70.6	1207.3	11
42	1.050	.025	3	0	14725.	0.	14724.51	1.000	70.6	1207.2	11
43	1.075	.025	3	0	14505.	0.	14505.43	1.000	70.6	1207.1	11
44	1.100	.025	3	0	14551.	0.	14551.05	1.000	71.9	1207.0	11
45	1.125	.025	3	0	14597.	0.	14597.02	1.000	73.3	1206.9	11
46	1.150	.025	3	0	14637.	0.	14637.43	1.000	74.6	1206.8	11
47	1.175	.025	3	0	14672.	0.	14672.26	1.000	75.9	1206.7	11
48	1.200	.025	3	0	14703.	0.	14702.80	1.000	77.2	1206.6	11
49	1.225	.025	3	0	14727.	0.	14727.46	1.000	78.6	1206.5	11
50	1.250	.025	3	0	14747.	0.	14746.77	1.000	79.9	1206.4	11
51	1.275	.025	3	0	14761.	0.	14760.72	1.000	81.2	1206.3	11
52	1.300	.025	3	0	14770.	0.	14770.30	1.000	82.6	1206.2	11
53	1.325	.025	3	0	14775.	0.	14774.76	1.000	83.9	1206.1	11
54	1.350	.025	3	0	14773.	0.	14773.31	1.000	85.2	1205.9	11
55	1.375	.025	3	0	14765.	0.	14764.82	1.000	86.6	1205.8	11
56	1.400	.025	3	0	14749.	0.	14748.70	1.000	87.9	1205.7	11
57	1.425	.025	3	0	14725.	0.	14725.19	1.000	89.2	1205.6	11
58	1.450	.025	3	0	14693.	0.	14692.69	1.000	90.6	1205.5	11
59	1.475	.025	3	0	14653.	0.	14652.77	1.000	91.9	1205.4	11
60	1.500	.025	3	0	14604.	0.	14604.07	1.000	93.2	1205.3	11
61	1.525	.025	3	0	14548.	0.	14547.92	1.000	94.5	1205.1	11

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
62	1.550	.025	3	0	14483.	0.	14482.89	1.000	95.9	1205.0	11
63	1.575	.025	3	0	14410.	0.	14409.55	1.000	97.2	1204.9	11
64	1.600	.025	3	0	14328.	0.	14327.99	1.000	98.5	1204.8	11
65	1.625	.025	3	0	14238.	0.	14237.83	1.000	99.7	1204.7	11
66	1.650	.025	3	0	14139.	0.	14139.05	1.000	101.0	1204.5	11
67	1.675	.025	3	0	14032.	0.	14031.77	1.000	102.3	1204.4	11
68	1.700	.025	3	0	13916.	0.	13916.24	1.000	103.6	1204.3	11
69	1.725	.025	3	0	13792.	0.	13792.11	1.000	104.8	1204.2	11
70	1.750	.025	3	0	13660.	0.	13659.94	1.000	106.0	1204.0	11
71	1.775	.025	3	0	13519.	0.	13519.10	1.000	107.3	1203.9	11
72	1.800	.025	3	0	13370.	0.	13370.19	1.000	108.5	1203.8	11
73	1.825	.025	3	0	13212.	0.	13212.37	1.000	109.7	1203.6	11
74	1.850	.025	3	0	13047.	0.	13046.50	1.000	110.8	1203.5	11
75	1.875	.025	3	0	12873.	0.	12872.98	1.000	112.0	1203.4	11
76	1.900	.025	3	0	12692.	0.	12691.52	1.000	113.2	1203.2	11
77	1.925	.025	3	0	12502.	0.	12501.73	1.000	114.3	1203.1	11

78	1.950	.025	3	0	12304.	0.	12304.46	1.000	115.4	1203.0	11
79	1.975	.025	3	0	12099.	0.	12099.40	1.000	116.5	1202.8	11
80	2.000	.025	3	0	11887.	0.	11887.36	1.000	117.6	1202.7	11
81	2.025	.025	3	0	11668.	0.	11667.78	1.000	118.6	1202.6	11
82	2.050	.025	3	0	11441.	0.	11441.14	1.000	119.7	1202.4	11
83	2.075	.025	3	0	11208.	0.	11207.59	1.000	120.7	1202.3	11
84	2.100	.025	3	0	10968.	0.	10967.62	1.000	121.7	1202.2	11
85	2.125	.025	3	0	10721.	0.	10721.41	1.000	122.6	1202.0	11
86	2.150	.025	3	0	10473.	0.	10472.65	1.000	123.6	1201.9	11
87	2.175	.025	3	0	10226.	0.	10225.71	1.000	124.5	1201.8	11
88	2.200	.025	3	0	9982.	0.	9981.59	1.000	125.4	1201.6	11
89	2.225	.025	3	0	9740.	0.	9740.34	1.000	126.3	1201.5	11
90	2.250	.025	3	0	9502.	0.	9502.19	1.000	127.2	1201.4	11
91	2.275	.025	3	0	9277.	0.	9276.65	1.000	128.0	1201.2	11
92	2.300	.025	3	0	9187.	0.	9187.45	1.000	128.8	1201.1	11
93	2.325	.025	3	0	9148.	0.	9147.70	1.000	129.7	1201.0	11
94	2.350	.025	3	0	9126.	0.	9125.67	1.000	130.5	1201.0	11
95	2.375	.025	3	0	9122.	0.	9122.12	1.000	131.3	1200.9	11
96	2.400	.025	3	0	9137.	0.	9136.81	1.000	132.1	1200.9	11
97	2.425	.025	3	0	9171.	0.	9170.73	1.000	133.0	1200.8	11
98	2.450	.025	3	0	9223.	0.	9223.08	1.000	133.8	1200.8	11
99	2.475	.025	3	0	9295.	0.	9295.14	1.000	134.6	1200.8	11
100	2.500	.025	3	0	9386.	0.	9386.16	1.000	135.5	1200.8	11
101	2.525	.025	3	0	9497.	0.	9497.01	1.000	136.3	1200.8	11
102	2.550	.025	3	0	9628.	0.	9627.93	1.000	137.2	1200.8	11
103	2.575	.025	3	0	9779.	0.	9779.40	1.000	138.1	1200.9	11
104	2.600	.025	3	0	9952.	0.	9951.53	1.000	139.0	1200.9	11
105	2.625	.025	3	0	10145.	0.	10144.68	1.000	139.9	1201.0	11
106	2.650	.025	3	0	10359.	0.	10359.32	1.000	140.8	1201.1	11
107	2.675	.025	3	0	10596.	0.	10595.61	1.000	141.8	1201.2	11
108	2.700	.025	3	0	10921.	0.	10920.88	1.000	142.8	1201.3	11
109	2.725	.025	3	0	11339.	0.	11339.32	1.000	143.8	1201.4	11
110	2.750	.025	3	0	11790.	0.	11790.25	1.000	144.9	1201.5	11
111	2.775	.025	3	0	12272.	0.	12272.48	1.000	146.0	1201.6	11
112	2.800	.025	3	0	12786.	0.	12785.82	1.000	147.2	1201.8	11
113	2.825	.025	3	0	13331.	0.	13330.62	1.000	148.4	1201.9	11
114	2.850	.025	3	0	13905.	0.	13904.50	1.000	149.6	1202.0	11
115	2.875	.025	3	0	14503.	0.	14503.03	1.000	150.9	1202.2	11
116	2.900	.025	3	0	15121.	0.	15120.88	1.000	152.3	1202.3	11
117	2.925	.025	3	0	15758.	0.	15758.21	1.000	153.7	1202.5	11
118	2.950	.025	3	0	16414.	0.	16414.40	1.000	155.2	1202.6	11
119	2.975	.025	3	0	17090.	0.	17089.67	1.000	156.7	1202.8	11
120	3.000	.025	3	0	17784.	0.	17784.21	1.000	158.4	1202.9	11
121	3.025	.025	3	0	18497.	0.	18497.17	1.000	160.0	1203.1	11

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
122	3.050	.025	3	0	19230.	0.	19229.79	1.000	161.8	1203.2	11
123	3.075	.025	3	0	19982.	0.	19981.53	1.000	163.6	1203.4	11
124	3.100	.025	3	0	20753.	0.	20752.57	1.000	165.5	1203.5	11
125	3.125	.025	3	0	21543.	0.	21542.57	1.000	167.4	1203.7	11
126	3.150	.025	3	0	22352.	0.	22352.10	1.000	169.4	1203.8	11
127	3.175	.025	3	0	23182.	0.	23181.65	1.000	171.5	1204.0	11
128	3.200	.025	3	0	24032.	0.	24032.41	1.000	173.7	1204.1	11
129	3.225	.025	3	0	24903.	0.	24903.42	1.000	175.9	1204.2	11
130	3.250	.025	3	0	25795.	0.	25795.24	1.000	178.3	1204.4	11
131	3.275	.025	3	0	26696.	0.	26696.43	1.000	180.7	1204.5	11
132	3.300	.025	3	0	27588.	0.	27587.69	1.000	183.2	1204.7	11
133	3.325	.025	3	0	28458.	0.	28457.57	1.000	185.8	1204.8	11
134	3.350	.025	3	0	29306.	0.	29305.90	1.000	188.4	1204.9	11
135	3.375	.025	3	0	30134.	0.	30134.02	1.000	191.1	1205.0	11
136	3.400	.025	3	0	30943.	0.	30942.88	1.000	193.9	1205.1	11
137	3.425	.025	3	0	31734.	0.	31733.52	1.000	196.8	1205.1	11
138	3.450	.025	3	0	32505.	0.	32504.62	1.000	199.8	1205.2	11

139	3.475	.025	3	0	33257.	0.	33256.68	1.000	202.8	1205.3	11
140	3.500	.025	3	0	33990.	0.	33989.69	1.000	205.9	1205.3	11
141	3.525	.025	3	0	34702.	0.	34701.59	1.000	209.0	1205.4	11
142	3.550	.025	3	0	35392.	0.	35392.28	1.000	212.2	1205.4	11
143	3.575	.025	3	0	36065.	0.	36064.93	1.000	215.5	1205.4	11
144	3.600	.025	3	0	36713.	0.	36713.07	1.000	218.8	1205.4	11
145	3.625	.025	3	0	37340.	0.	37340.39	1.000	222.1	1205.4	11
146	3.650	.025	3	0	37946.	0.	37945.93	1.000	225.6	1205.4	11
147	3.675	.025	3	0	38527.	0.	38526.71	1.000	229.1	1205.4	11
148	3.700	.025	3	0	39082.	0.	39082.09	1.000	232.6	1205.4	11
149	3.725	.025	3	0	39616.	0.	39615.57	1.000	236.2	1205.4	11
150	3.750	.025	3	0	40123.	0.	40123.19	1.000	239.8	1205.4	11
151	3.775	.025	3	0	40601.	0.	40601.20	1.000	243.5	1205.3	11
152	3.800	.025	3	0	41053.	0.	41052.61	1.000	247.2	1205.3	11
153	3.825	.025	3	0	41477.	0.	41477.05	1.000	251.0	1205.3	11
154	3.850	.025	3	0	41871.	0.	41870.81	1.000	254.7	1205.2	11
155	3.875	.025	3	0	42233.	0.	42233.37	1.000	258.6	1205.2	11
156	3.900	.025	3	0	42564.	0.	42564.21	1.000	262.4	1205.1	11
157	3.925	.025	3	0	42867.	0.	42867.24	1.000	266.3	1205.0	11
158	3.950	.025	3	0	43136.	0.	43136.01	1.000	270.2	1205.0	11
159	3.975	.025	3	0	43374.	0.	43374.26	1.000	274.1	1204.9	11
160	4.000	.025	3	0	43577.	0.	43576.64	1.000	278.0	1204.8	11
161	4.025	.025	3	0	43745.	0.	43744.91	1.000	282.0	1204.7	11
162	4.050	.025	3	0	43881.	0.	43880.63	1.000	286.0	1204.6	11
163	4.075	.025	3	0	43979.	0.	43979.48	1.000	289.9	1204.5	11
164	4.100	.025	3	0	44042.	0.	44042.18	1.000	293.9	1204.4	11
165	4.125	.025	3	0	44068.	0.	44068.18	1.000	297.9	1204.3	11
166	4.150	.025	3	0	44058.	0.	44057.63	1.000	301.9	1204.2	11
167	4.175	.025	3	0	44010.	0.	44010.00	1.000	305.9	1204.1	11
168	4.200	.025	3	0	43927.	0.	43926.98	1.000	309.8	1204.0	11
169	4.225	.025	3	0	43808.	0.	43807.99	1.000	313.8	1203.9	11
170	4.250	.025	3	0	43654.	0.	43653.66	1.000	317.7	1203.8	11
171	4.275	.025	3	0	43463.	0.	43462.93	1.000	321.7	1203.6	11
172	4.300	.025	3	0	43239.	0.	43239.37	1.000	325.6	1203.5	11
173	4.325	.025	3	0	42981.	0.	42981.36	1.000	329.5	1203.4	11
174	4.350	.025	3	0	42689.	0.	42688.77	1.000	333.3	1203.2	11
175	4.375	.025	3	0	42360.	0.	42360.34	1.000	337.2	1203.1	11
176	4.400	.025	3	0	42005.	0.	42004.69	1.000	341.0	1203.0	11
177	4.425	.025	3	0	41620.	0.	41620.39	1.000	344.7	1202.8	11
178	4.450	.025	3	0	41204.	0.	41203.66	1.000	348.5	1202.7	11
179	4.475	.025	3	0	40761.	0.	40760.80	1.000	352.2	1202.5	11
180	4.500	.025	3	0	40290.	0.	40289.89	1.000	355.8	1202.4	11
181	4.525	.025	3	0	39794.	0.	39794.09	1.000	359.4	1202.2	11

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
182	4.550	.025	3	0	39275.	0.	39274.77	1.000	362.9	1202.1	11
183	4.575	.025	3	0	38738.	0.	38738.49	1.000	366.5	1201.9	11
184	4.600	.025	3	0	38199.	0.	38198.94	1.000	369.9	1201.8	11
185	4.625	.025	3	0	37664.	0.	37663.71	1.000	373.3	1201.6	11
186	4.650	.025	3	0	37134.	0.	37134.40	1.000	376.7	1201.5	11
187	4.675	.025	3	0	36610.	0.	36609.83	1.000	380.0	1201.4	11
188	4.700	.025	3	0	36098.	0.	36097.73	1.000	383.2	1201.2	11
189	4.725	.025	3	0	35750.	0.	35750.20	1.000	386.5	1201.1	11
190	4.750	.025	3	0	35400.	0.	35400.09	1.000	389.7	1201.0	11
191	4.775	.025	3	0	35042.	0.	35041.79	1.000	392.8	1200.8	11
192	4.800	.025	3	0	34677.	0.	34676.89	1.000	396.0	1200.7	11
193	4.825	.025	3	0	34308.	0.	34307.81	1.000	399.1	1200.6	11
194	4.850	.025	3	0	33933.	0.	33933.42	1.000	402.2	1200.4	11
195	4.875	.025	3	0	33555.	0.	33554.70	1.000	405.2	1200.3	11
196	4.900	.025	3	0	33172.	0.	33172.00	1.000	408.2	1200.2	11
197	4.925	.025	3	0	32787.	0.	32786.93	1.000	411.1	1200.1	11
198	4.950	.025	3	0	32399.	0.	32399.14	1.000	414.1	1199.9	11
199	4.975	.025	3	0	32011.	0.	32010.86	1.000	417.0	1199.8	11

200	5.000	.025	3	0	31621.	0.	31621.16	1.000	419.8	1199.7	11
201	5.025	.025	3	0	31232.	0.	31232.26	1.000	422.7	1199.6	11
202	5.050	.025	3	0	30847.	0.	30846.92	1.000	425.4	1199.5	11
203	5.075	.025	3	0	30469.	0.	30469.23	1.000	428.2	1199.3	11
204	5.100	.025	3	0	30098.	0.	30098.09	1.000	430.9	1199.2	11
205	5.125	.025	3	0	29732.	0.	29732.31	1.000	433.6	1199.1	11
206	5.150	.025	3	0	29373.	0.	29372.96	1.000	436.3	1199.0	11
207	5.175	.025	3	0	29020.	0.	29020.20	1.000	438.9	1198.9	11
208	5.200	.025	3	0	28673.	0.	28673.00	1.000	441.5	1198.8	11
209	5.225	.025	3	0	28332.	0.	28331.58	1.000	444.0	1198.7	11
210	5.250	.025	3	0	27997.	0.	27996.71	1.000	446.6	1198.6	11
211	5.275	.025	3	0	27668.	0.	27667.92	1.000	449.1	1198.5	11
212	5.300	.025	3	0	27343.	0.	27343.07	1.000	451.5	1198.4	11
213	5.325	.025	3	0	27024.	0.	27024.06	1.000	454.0	1198.3	11
214	5.350	.025	3	0	26710.	0.	26710.36	1.000	456.4	1198.2	11
215	5.375	.025	3	0	26403.	0.	26402.74	1.000	458.8	1198.1	11
216	5.400	.025	3	0	26100.	0.	26100.06	1.000	461.1	1198.1	11
217	5.425	.025	3	0	25802.	0.	25801.82	1.000	463.5	1198.0	11
218	5.450	.025	3	0	25508.	0.	25507.62	1.000	465.8	1197.9	11
219	5.475	.025	3	0	25218.	0.	25218.17	1.000	468.0	1197.8	11
220	5.500	.025	3	0	24934.	0.	24933.55	1.000	470.3	1197.7	11
221	5.525	.025	3	0	24653.	0.	24652.60	1.000	472.5	1197.6	11
222	5.550	.025	3	0	24376.	0.	24376.05	1.000	474.7	1197.6	11
223	5.575	.025	3	0	24103.	0.	24103.38	1.000	476.9	1197.5	11
224	5.600	.025	3	0	23835.	0.	23834.69	1.000	479.0	1197.4	11
225	5.625	.025	3	0	23570.	0.	23570.06	1.000	481.2	1197.3	11
226	5.650	.025	3	0	23308.	0.	23308.33	1.000	483.3	1197.3	11
227	5.675	.025	3	0	23050.	0.	23050.21	1.000	485.4	1197.2	11
228	5.700	.025	3	0	22795.	0.	22795.16	1.000	487.4	1197.1	11
229	5.725	.025	3	0	22543.	0.	22543.26	1.000	489.4	1197.1	11
230	5.750	.025	3	0	22294.	0.	22293.97	1.000	491.5	1197.0	11
231	5.775	.025	3	0	22048.	0.	22047.99	1.000	493.5	1196.9	11
232	5.800	.025	3	0	21805.	0.	21804.76	1.000	495.4	1196.9	11
233	5.825	.025	3	0	21564.	0.	21563.73	1.000	497.4	1196.8	11
234	5.850	.025	3	0	21326.	0.	21325.61	1.000	499.3	1196.7	11
235	5.875	.025	3	0	21090.	0.	21089.82	1.000	501.2	1196.7	11
236	5.900	.025	3	0	20856.	0.	20855.82	1.000	503.1	1196.6	11
237	5.925	.025	3	0	20621.	0.	20620.89	1.000	504.9	1196.6	11
238	5.950	.025	3	0	20388.	0.	20388.15	1.000	506.8	1196.5	11
239	5.975	.025	3	0	20162.	0.	20161.76	1.000	508.6	1196.4	11
240	6.000	.025	3	0	19937.	0.	19937.38	1.000	510.4	1196.4	11
241	6.025	.025	3	0	19715.	0.	19715.06	1.000	512.2	1196.3	11

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
242	6.050	.025	3	0	19494.	0.	19494.24	1.000	514.0	1196.3	11
243	6.075	.025	3	0	19276.	0.	19275.60	1.000	515.7	1196.2	11
244	6.100	.025	3	0	19058.	0.	19057.95	1.000	517.4	1196.1	11
245	6.125	.025	3	0	18842.	0.	18841.96	1.000	519.1	1196.1	11
246	6.150	.025	3	0	18627.	0.	18627.07	1.000	520.8	1196.0	11
247	6.175	.025	3	0	18410.	0.	18410.42	1.000	522.5	1196.0	11
248	6.200	.025	3	0	18195.	0.	18194.67	1.000	524.1	1195.9	11
249	6.225	.025	3	0	17983.	0.	17983.25	1.000	525.7	1195.9	11
250	6.250	.025	3	0	17773.	0.	17773.10	1.000	527.3	1195.8	11
251	6.275	.025	3	0	17564.	0.	17563.67	1.000	528.9	1195.8	11
252	6.300	.025	3	0	17354.	0.	17354.39	1.000	530.5	1195.7	11
253	6.325	.025	3	0	17146.	0.	17145.92	1.000	532.0	1195.7	11
254	6.350	.025	3	0	16938.	0.	16938.31	1.000	533.6	1195.6	11
255	6.375	.025	3	0	16731.	0.	16730.98	1.000	535.1	1195.6	11
256	6.400	.025	3	0	16524.	0.	16524.00	1.000	536.6	1195.5	11
257	6.425	.025	3	0	16319.	0.	16318.62	1.000	538.0	1195.4	11
258	6.450	.025	3	0	16113.	0.	16113.06	1.000	539.5	1195.4	11
259	6.475	.025	3	0	15909.	0.	15908.58	1.000	540.9	1195.3	11
260	6.500	.025	3	0	15705.	0.	15704.60	1.000	542.3	1195.3	11

261	6.525	.025	3	0	15502.	0.	15501.79	1.000	543.7	1195.2	11
262	6.550	.025	3	0	15300.	0.	15299.56	1.000	545.1	1195.2	11
263	6.575	.025	3	0	15097.	0.	15097.37	1.000	546.5	1195.1	11
264	6.600	.025	3	0	14896.	0.	14896.45	1.000	547.8	1195.1	11
265	6.625	.025	3	0	14696.	0.	14696.24	1.000	549.1	1195.0	11
266	6.650	.025	3	0	14497.	0.	14496.78	1.000	550.4	1195.0	11
267	6.675	.025	3	0	14298.	0.	14297.51	1.000	551.7	1195.0	11
268	6.700	.025	3	0	14099.	0.	14099.06	1.000	553.0	1194.9	11
269	6.725	.025	3	0	13901.	0.	13901.46	1.000	554.2	1194.9	11
270	6.750	.025	3	0	13705.	0.	13704.75	1.000	555.5	1194.8	11
271	6.775	.025	3	0	13505.	0.	13504.73	1.000	556.7	1194.8	11
272	6.800	.025	3	0	13305.	0.	13304.76	1.000	557.9	1194.7	11
273	6.825	.025	3	0	13110.	0.	13110.15	1.000	559.1	1194.7	11
274	6.850	.025	3	0	12912.	0.	12912.36	1.000	560.3	1194.6	11
275	6.875	.025	3	0	12715.	0.	12715.33	1.000	561.4	1194.6	11
276	6.900	.025	3	0	12523.	0.	12523.02	1.000	562.6	1194.5	11
277	6.925	.025	3	0	12331.	0.	12330.99	1.000	563.7	1194.5	11
278	6.950	.025	3	0	12140.	0.	12139.85	1.000	564.8	1194.4	11
279	6.975	.025	3	0	11945.	0.	11945.15	1.000	565.9	1194.4	11
280	7.000	.025	3	0	11751.	0.	11750.86	1.000	566.9	1194.3	11
281	7.025	.025	3	0	11562.	0.	11561.55	1.000	568.0	1194.3	11
282	7.050	.025	3	0	11369.	0.	11368.81	1.000	569.0	1194.2	11
283	7.075	.025	3	0	11177.	0.	11176.59	1.000	570.0	1194.2	11
284	7.100	.025	3	0	10989.	0.	10989.42	1.000	571.0	1194.1	11
285	7.125	.025	3	0	10803.	0.	10802.64	1.000	572.0	1194.1	11
286	7.150	.025	3	0	10616.	0.	10615.95	1.000	572.9	1194.1	11
287	7.175	.025	3	0	10429.	0.	10429.41	1.000	573.9	1194.0	11
288	7.200	.025	3	0	10240.	0.	10239.71	1.000	574.8	1194.0	11
289	7.225	.025	3	0	10051.	0.	10050.78	1.000	575.7	1193.9	11
290	7.250	.025	3	0	9866.	0.	9866.47	1.000	576.6	1193.9	11
291	7.275	.025	3	0	9684.	0.	9684.08	1.000	577.5	1193.8	11
292	7.300	.025	3	0	9502.	0.	9502.41	1.000	578.4	1193.8	11
293	7.325	.025	3	0	9327.	0.	9326.91	1.000	579.2	1193.7	11
294	7.350	.025	3	0	9161.	0.	9160.71	1.000	580.0	1193.7	11
295	7.375	.025	3	0	8999.	0.	8999.02	1.000	580.8	1193.7	11
296	7.400	.025	3	0	8839.	0.	8838.98	1.000	581.6	1193.6	11
297	7.425	.025	3	0	8683.	0.	8683.38	1.000	582.4	1193.6	11
298	7.450	.025	3	0	8535.	0.	8535.31	1.000	583.2	1193.5	11
299	7.475	.025	3	0	8391.	0.	8390.78	1.000	584.0	1193.5	11
300	7.500	.025	3	0	8249.	0.	8249.06	1.000	584.7	1193.5	11
301	7.525	.025	3	0	8110.	0.	8110.33	1.000	585.4	1193.4	11

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
302	7.550	.025	3	0	7974.	0.	7974.38	1.000	586.2	1193.4	11
303	7.575	.025	3	0	7841.	0.	7841.38	1.000	586.9	1193.4	11
304	7.600	.025	3	0	7710.	0.	7710.14	1.000	587.6	1193.3	11
305	7.625	.025	3	0	7581.	0.	7581.17	1.000	588.3	1193.3	11
306	7.650	.025	3	0	7452.	0.	7452.20	1.000	588.9	1193.3	11
307	7.675	.025	3	0	7324.	0.	7324.50	1.000	589.6	1193.2	11
308	7.700	.025	3	0	7202.	0.	7201.53	1.000	590.2	1193.2	11
309	7.725	.025	3	0	7078.	0.	7077.58	1.000	590.9	1193.2	11
310	7.750	.025	3	0	6955.	0.	6955.40	1.000	591.5	1193.1	11
311	7.775	.025	3	0	6837.	0.	6836.93	1.000	592.1	1193.1	11
312	7.800	.025	3	0	6718.	0.	6717.51	1.000	592.8	1193.1	11
313	7.825	.025	3	0	6599.	0.	6599.38	1.000	593.4	1193.0	11
314	7.850	.025	3	0	6484.	0.	6484.46	1.000	593.9	1193.0	11
315	7.875	.025	3	0	6371.	0.	6370.93	1.000	594.5	1193.0	11
316	7.900	.025	3	0	6258.	0.	6258.23	1.000	595.1	1192.9	11
317	7.925	.025	3	0	6146.	0.	6145.88	1.000	595.6	1192.9	11
318	7.950	.025	3	0	6032.	0.	6032.19	1.000	596.2	1192.9	11
319	7.975	.025	3	0	5920.	0.	5919.83	1.000	596.7	1192.8	11
320	8.000	.025	3	0	5810.	0.	5810.20	1.000	597.2	1192.8	11
321	8.025	.025	3	0	5701.	0.	5701.06	1.000	597.8	1192.8	11

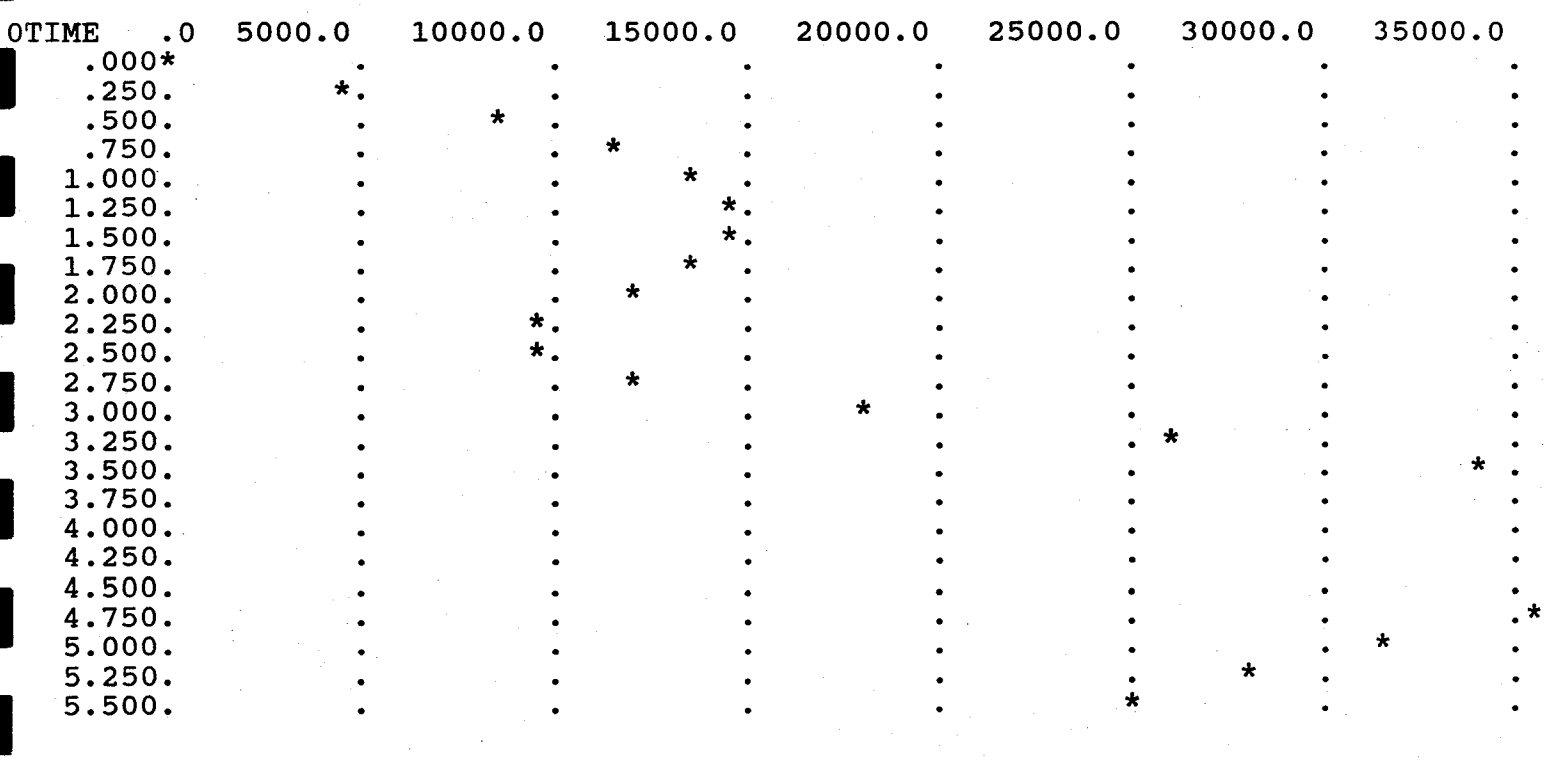
322	8.050	.025	3	0	5592.	0.	5592.35	1.000	598.3	1192.7	11
323	8.075	.025	3	0	5485.	0.	5484.54	1.000	598.8	1192.7	11
324	8.100	.025	3	0	5377.	0.	5377.18	1.000	599.2	1192.7	11
325	8.125	.025	3	0	5270.	0.	5270.38	1.000	599.7	1192.7	11
326	8.150	.025	3	0	5164.	0.	5163.62	1.000	600.2	1192.6	11
327	8.175	.025	3	0	5057.	0.	5057.36	1.000	600.7	1192.6	11
328	8.200	.025	3	0	4952.	0.	4951.63	1.000	601.1	1192.6	11
329	8.225	.025	3	0	4847.	0.	4846.52	1.000	601.5	1192.5	11
330	8.250	.025	3	0	4741.	0.	4741.43	1.000	602.0	1192.5	11
331	8.275	.025	3	0	4637.	0.	4636.58	1.000	602.4	1192.5	11
332	8.300	.025	3	0	4532.	0.	4532.29	1.000	602.8	1192.4	11
333	8.325	.025	3	0	4428.	0.	4428.26	1.000	603.2	1192.4	11
334	8.350	.025	3	0	4325.	0.	4324.83	1.000	603.6	1192.4	11

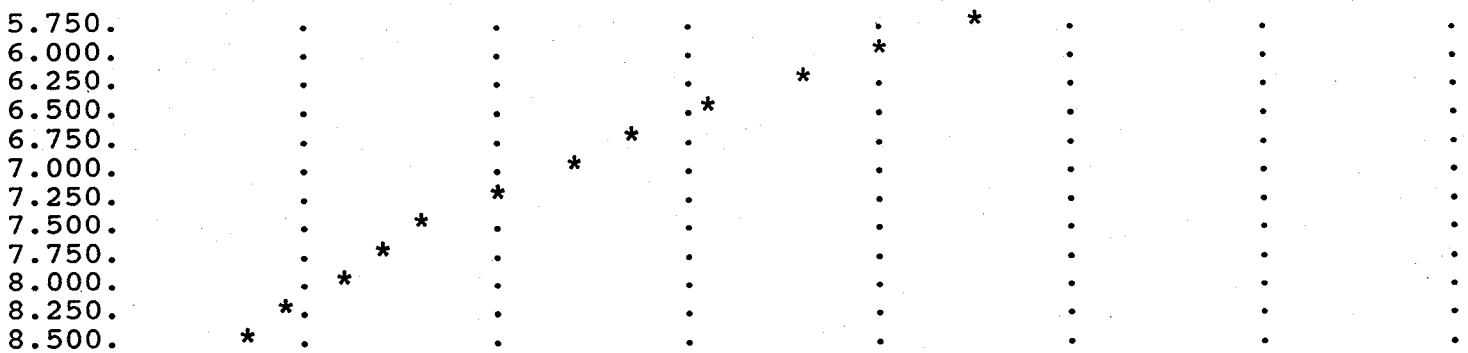
KTT= 0 I= 334 T= 8.35

OUTPUT SUMMARY

QBP	MAX OUTFLOW(CFS) THRU BREACH	44068.
TP	TIME(HR) AT WHICH PEAK OUTFLOW OCCURS	4.13
QP	MAX TOTAL OUTFLOW(CFS) OCCURRING AT TIME TP	44068.
TRS	DURATION(HR) OF RISING LIMB OF HYDROGRAPH	4.10
TB	TIME(HR) AT WHICH SIGN. RISE IN OUTFLOW STARTS	.00
BRD	FINAL DEPTH(FT) OF BREACH	24.20
BRW	FINAL TOP WIDTH(FT) OF BREACH AT PEAK BREACH FLOW	297.90
HU	ELEV(FT) OF TOP OF DAM	1214.70
HY	FINAL ELEV(FT) OF RESERVOIR WATER SURFACE	1192.38
HC	FINAL ELEV(FT) OF BOTTOM OF BREACH	1190.500
AGL	ACUTE ANGLE THAT BREACH SIDE MAKES WITH VERTICAL AT QBP	45.000
QO	OUTFLOW (CFS) AT T=0.0	326.4028
Z	SIDE SLOPE OF BREACH (FT/FT) AT PEAK BREACH FLOW	1.00
TFH	TIME OF FAILURE (HR) WHICH IS LINEAR EQUIVALENT OF TRS OBTAINED BY USING SIMPLIFIED DAM-BREAK DISCHARGE EQUATION	1.00
TFHI	TIME OF FAILURE (HR) WHICH IS LINEAR EQUIVALENT OF TRS OBTAINED BY INTEGRATING QB VS TIME FROM T=0 TO T=TP	2.19
BO	BOTTOM WIDTH (FT) OF BREACH AT PEAK BREACH FLOW	249.50

Average Breach Width $= \frac{1}{2}(298+250) = 274'$

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WHITE TANK FRS #4 BREACH PARAMETER ESTIMATION WT4BR1Y.DAT

HI= 1048.50 HU= 1055.40 HL= 1036.40 HPI= 1036.40 HSP= .00 PI

(QIN(I),I=1,8)

.00	100.00	7165.00	22491.00	12000.00	4172.00	600.00	26.00

(TIN(I),I=1,8)

.00	2.25	2.75	3.00	4.25	7.00	8.00	24.00

(RSA(I),I=1,8)

239.50	215.50	200.50	148.50	117.50	49.50	40.50	20.20

(HSA(I),I=1,8)

1056.00	1054.00	1052.00	1050.00	1048.00	1042.00	1040.00	1000.00

(HSTW(I),I=1,8)

1033.00	1034.50	1036.50	.00	.00	.00	.00	.00

(BSTW(I),I=1,8)

400.00	850.00	2000.00	.00	.00	.00	.00	.00

(CMTW(I),I=1,8)

.04	.03	.03	.00	.00	.00	.00	.00

ZU= 3.00 ZD= 2.50 ZC= .00 GL= .00 GS= .00 VMP= .00

D50C= .00 PORC= .00 UWC= .00 CNC= .0000 AFRC= .00 COHC= .0 UN

D50S= .07 PORS= .24 UWS=125.00 CNS=2.0000 AFRS= 30.00 COHS= 100.0 UN

BR= 1.00 WC= 10.0 CRL= 6839.0 SM= 40.00 D50DF= .07 UNFCDF= 87.00 BM

DTH= .100 DBG= .001 H= .0000 TEH= 15.0 ERR= .50 FPT= .0 TPR

1

AFR= .0 TH1= 60.00 H1= 5.54 TH2= 45.00 H2= 17.91 TH3= 37

1

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
1	.025	.025	4	0	117.	0.	116.69	1.000	2.2	1048.5	10
2	.050	.025	4	0	300.	0.	300.12	1.000	3.5	1048.5	10
3	.075	.025	4	0	467.	0.	467.39	1.000	4.3	1048.5	10
4	.100	.025	4	0	645.	0.	644.80	1.000	5.1	1048.5	10
5	.125	.025	4	0	825.	0.	824.63	1.000	5.7	1048.5	10
6	.150	.025	4	0	1005.	0.	1004.75	1.000	6.3	1048.5	10
7	.175	.025	4	0	1186.	0.	1185.53	1.000	6.9	1048.4	10
8	.200	.025	4	0	1366.	0.	1366.06	1.000	7.4	1048.4	10
9	.225	.025	4	0	1542.	0.	1541.80	1.000	7.9	1048.4	10
10	.250	.025	4	0	1714.	0.	1713.54	1.000	8.3	1048.4	10
11	.275	.025	4	0	1881.	0.	1880.82	1.000	8.8	1048.3	10
12	.300	.025	4	0	2043.	0.	2043.36	1.000	9.1	1048.3	10
13	.325	.025	4	0	2201.	0.	2200.90	1.000	9.5	1048.3	10
14	.350	.025	4	0	2353.	0.	2353.28	1.000	9.9	1048.2	10
15	.375	.025	4	0	2500.	0.	2500.41	1.000	10.2	1048.2	10
16	.400	.025	4	0	2642.	0.	2642.21	1.000	10.5	1048.2	10
17	.425	.025	4	0	2779.	0.	2778.61	1.000	10.8	1048.1	10
18	.450	.025	4	0	2910.	0.	2909.65	1.000	11.1	1048.1	10
19	.475	.025	4	0	3034.	0.	3033.89	1.000	11.4	1048.0	10

20	.500	.025	4	0	3154.	0.	3153.68	1.000	11.6	1048.0	10
21	.525	.025	4	0	3268.	0.	3268.09	1.000	11.9	1047.9	10
22	.550	.025	4	0	3377.	0.	3377.19	1.000	12.1	1047.9	10
23	.575	.025	4	0	3481.	0.	3481.04	1.000	12.3	1047.8	10
24	.600	.025	4	0	3580.	0.	3579.69	1.000	12.6	1047.7	10
25	.625	.025	4	0	3673.	0.	3673.14	1.000	12.8	1047.7	10
26	.650	.025	4	0	3761.	0.	3761.47	1.000	13.0	1047.6	10
27	.675	.025	4	0	3845.	0.	3844.73	1.000	13.2	1047.5	10
28	.700	.025	4	0	3923.	0.	3922.94	1.000	13.3	1047.5	10
29	.725	.025	4	0	3996.	0.	3996.21	1.000	13.5	1047.4	10
30	.750	.025	4	0	4065.	0.	4064.62	1.000	13.7	1047.3	10
31	.775	.025	4	0	4128.	0.	4128.14	1.000	13.8	1047.2	10
32	.800	.025	4	0	4187.	0.	4186.90	1.000	14.0	1047.2	10
33	.825	.025	4	0	4241.	0.	4240.92	1.000	14.1	1047.1	10

PIPE FLOW TO WEIR FLOW TRANSITION

KSLUMP= 1 HCK= 16.64 DELT= .03 DEL= 30.00

35	.875	.025	3	0	4413.	0.	4412.50	1.000	36.1	1047.0	10
36	.900	.025	3	0	4332.	0.	4332.49	1.000	36.1	1046.9	10
37	.925	.025	3	0	4332.	0.	4332.15	1.000	36.9	1046.8	10
38	.950	.025	3	0	4333.	0.	4333.31	1.000	37.7	1046.7	10
39	.975	.025	3	0	4335.	0.	4335.10	1.000	38.6	1046.7	10
40	1.000	.025	3	0	4337.	0.	4337.44	1.000	39.5	1046.6	10
41	1.025	.025	3	0	4338.	0.	4338.12	1.000	40.4	1046.5	10
42	1.050	.025	3	0	4336.	0.	4335.65	1.000	41.3	1046.4	10
43	1.075	.025	3	0	4330.	0.	4330.37	1.000	42.2	1046.3	10
44	1.100	.025	3	0	4322.	0.	4322.15	1.000	43.1	1046.2	10
45	1.125	.025	3	0	4311.	0.	4310.67	1.000	44.0	1046.1	10
46	1.150	.025	3	0	4296.	0.	4296.25	1.000	44.9	1046.0	10
47	1.175	.025	3	0	4279.	0.	4278.62	1.000	45.8	1045.9	10
48	1.200	.025	3	0	4258.	0.	4257.97	1.000	46.7	1045.8	10
49	1.225	.025	3	0	4234.	0.	4234.39	1.000	47.6	1045.7	10
50	1.250	.025	3	0	4208.	0.	4207.61	1.000	48.4	1045.7	10
51	1.275	.025	3	0	4178.	0.	4177.93	1.000	49.3	1045.6	10
52	1.300	.025	3	0	4145.	0.	4145.41	1.000	50.2	1045.5	10
53	1.325	.025	3	0	4110.	0.	4109.54	1.000	51.0	1045.4	10
54	1.350	.025	3	0	4071.	0.	4070.87	1.000	51.9	1045.3	10
55	1.375	.025	3	0	4029.	0.	4029.38	1.000	52.7	1045.2	10
56	1.400	.025	3	0	3985.	0.	3985.36	1.000	53.6	1045.1	10
57	1.425	.025	3	0	3939.	0.	3938.65	1.000	54.4	1045.0	10
58	1.450	.025	3	0	3889.	0.	3889.23	1.000	55.2	1044.9	10
59	1.475	.025	3	0	3837.	0.	3837.27	1.000	56.0	1044.8	10
60	1.500	.025	3	0	3783.	0.	3782.91	1.000	56.8	1044.7	10
61	1.525	.025	3	0	3726.	0.	3726.31	1.000	57.6	1044.6	10

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
62	1.550	.025	3	0	3668.	0.	3667.52	1.000	58.4	1044.5	10
63	1.575	.025	3	0	3606.	0.	3606.43	1.000	59.1	1044.4	10
64	1.600	.025	3	0	3544.	0.	3543.53	1.000	59.9	1044.3	10
65	1.625	.025	3	0	3479.	0.	3478.79	1.000	60.6	1044.2	10
66	1.650	.025	3	0	3412.	0.	3412.34	1.000	61.3	1044.1	10
67	1.675	.025	3	0	3344.	0.	3344.23	1.000	62.0	1044.0	10
68	1.700	.025	3	0	3275.	0.	3274.53	1.000	62.7	1043.9	10
69	1.725	.025	3	0	3204.	0.	3203.67	1.000	63.4	1043.8	10
70	1.750	.025	3	0	3132.	0.	3131.51	1.000	64.0	1043.7	10
71	1.775	.025	3	0	3059.	0.	3058.61	1.000	64.6	1043.6	10
72	1.800	.025	3	0	2985.	0.	2984.50	1.000	65.3	1043.6	10
73	1.825	.025	3	0	2910.	0.	2910.07	1.000	65.9	1043.5	10
74	1.850	.025	3	0	2835.	0.	2834.75	1.000	66.5	1043.4	10
75	1.875	.025	3	0	2759.	0.	2759.24	1.000	67.0	1043.3	10
76	1.900	.025	3	0	2683.	0.	2683.30	1.000	67.6	1043.2	10
77	1.925	.025	3	0	2607.	0.	2607.21	1.000	68.1	1043.1	10

78	1.950	.025	3	0	2539.	0.	2539.13	1.000	68.7	1043.0	10
79	1.975	.025	3	0	2516.	0.	2515.96	1.000	69.2	1042.9	10
80	2.000	.025	3	0	2492.	0.	2491.57	1.000	69.7	1042.9	10
81	2.025	.025	3	0	2466.	0.	2466.27	1.000	70.3	1042.8	10
82	2.050	.025	3	0	2440.	0.	2439.56	1.000	70.8	1042.7	10
83	2.075	.025	3	0	2412.	0.	2411.78	1.000	71.3	1042.6	10
84	2.100	.025	3	0	2383.	0.	2383.10	1.000	71.8	1042.5	10
85	2.125	.025	3	0	2353.	0.	2353.33	1.000	72.3	1042.4	10
86	2.150	.025	3	0	2322.	0.	2322.42	1.000	72.7	1042.4	10
87	2.175	.025	3	0	2291.	0.	2290.56	1.000	73.2	1042.3	10
88	2.200	.025	3	0	2258.	0.	2257.74	1.000	73.7	1042.2	10
89	2.225	.025	3	0	2224.	0.	2223.99	1.000	74.2	1042.1	10
90	2.250	.025	3	0	2189.	0.	2189.42	1.000	74.6	1042.0	10
91	2.275	.025	3	0	2157.	0.	2156.52	1.000	75.1	1041.9	10
92	2.300	.025	3	0	2130.	0.	2130.35	1.000	75.5	1041.8	10
93	2.325	.025	3	0	2113.	0.	2113.14	1.000	75.9	1041.8	10
94	2.350	.025	3	0	2105.	0.	2104.95	1.000	76.4	1041.7	10
95	2.375	.025	3	0	2106.	0.	2105.77	1.000	76.8	1041.7	10
96	2.400	.025	3	0	2116.	0.	2115.67	1.000	77.3	1041.7	10
97	2.425	.025	3	0	2135.	0.	2134.77	1.000	77.7	1041.7	10
98	2.450	.025	3	0	2163.	0.	2162.93	1.000	78.2	1041.7	10
99	2.475	.025	3	0	2200.	0.	2200.42	1.000	78.6	1041.8	10
100	2.500	.025	3	0	2247.	0.	2247.14	1.000	79.1	1041.8	10
101	2.525	.025	3	0	2303.	0.	2303.12	1.000	79.6	1041.9	10
102	2.550	.025	3	0	2368.	0.	2368.46	1.000	80.1	1041.9	10
103	2.575	.025	3	0	2443.	0.	2443.15	1.000	80.6	1042.0	10
104	2.600	.025	3	0	2527.	0.	2526.65	1.000	81.1	1042.1	10
105	2.625	.025	3	0	2619.	0.	2618.86	1.000	81.7	1042.2	10
106	2.650	.025	3	0	2719.	0.	2719.32	1.000	82.2	1042.3	10
107	2.675	.025	3	0	2828.	0.	2828.18	1.000	82.8	1042.4	10
108	2.700	.025	3	0	2945.	0.	2945.19	1.000	83.4	1042.6	10
109	2.725	.025	3	0	3070.	0.	3070.27	1.000	84.1	1042.7	10
110	2.750	.025	3	0	3203.	0.	3203.49	1.000	84.7	1042.8	10
111	2.775	.025	3	0	3353.	0.	3352.50	1.000	85.4	1043.0	10
112	2.800	.025	3	0	3601.	0.	3601.08	1.000	86.2	1043.2	10
113	2.825	.025	3	0	3955.	0.	3954.97	1.000	87.0	1043.4	10
114	2.850	.025	3	0	4364.	0.	4363.85	1.000	87.9	1043.6	10
115	2.875	.025	3	0	4823.	0.	4823.25	1.000	88.9	1043.9	10
116	2.900	.025	3	0	5331.	0.	5330.95	1.000	90.0	1044.2	10
117	2.925	.025	3	0	5885.	0.	5884.56	1.000	91.3	1044.5	10
118	2.950	.025	3	0	6484.	0.	6483.74	1.000	92.6	1044.8	10
119	2.975	.025	3	0	7127.	0.	7127.03	1.000	94.1	1045.1	10
120	3.000	.025	3	0	7815.	0.	7814.50	1.000	95.8	1045.4	10
121	3.025	.025	3	0	8530.	0.	8530.05	1.000	97.6	1045.8	10

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
122	3.050	.025	3	0	9241.	0.	9241.12	1.000	99.5	1046.1	10
123	3.075	.025	3	0	9933.	0.	9933.04	1.000	101.6	1046.3	10
124	3.100	.025	3	0	10610.	0.	10609.98	1.000	103.8	1046.6	10
125	3.125	.025	3	0	11273.	0.	11273.41	1.000	106.1	1046.8	10
126	3.150	.025	3	0	11925.	0.	11925.00	1.000	108.6	1047.0	10
127	3.175	.025	3	0	12566.	0.	12565.98	1.000	111.3	1047.2	10
128	3.200	.025	3	0	13197.	0.	13196.99	1.000	114.0	1047.3	10
129	3.225	.025	3	0	13819.	0.	13818.74	1.000	116.9	1047.5	10
130	3.250	.025	3	0	14429.	0.	14429.41	1.000	119.9	1047.6	10
131	3.275	.025	3	0	15031.	0.	15031.45	1.000	123.1	1047.7	10
132	3.300	.025	3	0	15621.	0.	15620.97	1.000	126.3	1047.8	10
133	3.325	.025	3	0	16199.	0.	16198.63	1.000	129.7	1047.9	10
134	3.350	.025	3	0	16764.	0.	16763.74	1.000	133.2	1047.9	10
135	3.375	.025	3	0	17314.	0.	17313.85	1.000	136.9	1048.0	10
136	3.400	.025	3	0	17848.	0.	17848.35	1.000	140.6	1048.0	10
137	3.425	.025	3	0	18366.	0.	18366.33	1.000	144.4	1048.1	10
138	3.450	.025	3	0	18865.	0.	18864.96	1.000	148.4	1048.1	10

139	3.475	.025	3	0	19343.	0.	19342.80	1.000	152.4	1048.1	10
140	3.500	.025	3	0	19797.	0.	19797.08	1.000	156.6	1048.0	10
141	3.525	.025	3	0	20226.	0.	20225.89	1.000	160.8	1048.0	10
142	3.550	.025	3	0	20628.	0.	20628.00	1.000	165.1	1048.0	10
143	3.575	.025	3	0	21002.	0.	21002.41	1.000	169.5	1047.9	10
144	3.600	.025	3	0	21345.	0.	21345.46	1.000	174.0	1047.9	10
145	3.625	.025	3	0	21656.	0.	21656.43	1.000	178.5	1047.8	10
146	3.650	.025	3	0	21933.	0.	21933.46	1.000	183.1	1047.7	10
147	3.675	.025	3	0	22177.	0.	22176.58	1.000	187.7	1047.6	10
148	3.700	.025	3	0	22382.	0.	22381.98	1.000	192.4	1047.5	10
149	3.725	.025	3	0	22549.	0.	22549.37	1.000	197.1	1047.4	10
150	3.750	.025	3	0	22678.	0.	22678.21	1.000	201.9	1047.3	10
151	3.775	.025	3	0	22769.	0.	22768.54	1.000	206.6	1047.2	10
152	3.800	.025	3	0	22818.	0.	22818.31	1.000	211.4	1047.1	10
153	3.825	.025	3	0	22828.	0.	22828.34	1.000	216.2	1046.9	10
154	3.850	.025	3	0	22797.	0.	22796.93	1.000	221.0	1046.8	10
155	3.875	.025	3	0	22726.	0.	22726.00	1.000	225.7	1046.6	10
156	3.900	.025	3	0	22616.	0.	22615.85	1.000	230.5	1046.5	10
157	3.925	.025	3	0	22468.	0.	22468.18	1.000	235.2	1046.3	10
158	3.950	.025	3	0	22284.	0.	22283.69	1.000	239.9	1046.2	10
159	3.975	.025	3	0	22064.	0.	22064.06	1.000	244.5	1046.0	10
160	4.000	.025	3	0	21810.	0.	21809.68	1.000	249.0	1045.8	10
161	4.025	.025	3	0	21525.	0.	21524.54	1.000	253.6	1045.7	10
162	4.050	.025	3	0	21210.	0.	21209.62	1.000	258.0	1045.5	10
163	4.075	.025	3	0	20867.	0.	20867.34	1.000	262.4	1045.3	10
164	4.100	.025	3	0	20501.	0.	20501.21	1.000	266.6	1045.1	10
165	4.125	.025	3	0	20113.	0.	20113.45	1.000	270.9	1044.9	10
166	4.150	.025	3	0	19707.	0.	19707.29	1.000	275.0	1044.8	10
167	4.175	.025	3	0	19282.	0.	19282.23	1.000	279.0	1044.6	10
168	4.200	.025	3	0	18845.	0.	18844.64	1.000	283.0	1044.4	10
169	4.225	.025	3	0	18398.	0.	18397.87	1.000	286.8	1044.2	10
170	4.250	.025	3	0	17941.	0.	17940.92	1.000	290.6	1044.1	10
171	4.275	.025	3	0	17484.	0.	17483.70	1.000	294.2	1043.9	10
172	4.300	.025	3	0	17035.	0.	17034.69	1.000	297.8	1043.7	10
173	4.325	.025	3	0	16602.	0.	16601.71	1.000	301.2	1043.6	10
174	4.350	.025	3	0	16186.	0.	16186.49	1.000	304.6	1043.4	10
175	4.375	.025	3	0	15790.	0.	15789.79	1.000	307.9	1043.3	10
176	4.400	.025	3	0	15412.	0.	15411.84	1.000	311.2	1043.1	10
177	4.425	.025	3	0	15072.	0.	15071.68	1.000	314.3	1043.0	10
178	4.450	.025	3	0	14804.	0.	14804.25	1.000	317.4	1042.9	10
179	4.475	.025	3	0	14546.	0.	14545.98	1.000	320.5	1042.8	10
180	4.500	.025	3	0	14295.	0.	14295.11	1.000	323.5	1042.7	10
181	4.525	.025	3	0	14052.	0.	14051.54	1.000	326.4	1042.5	10

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
182	4.550	.025	3	0	13816.	0.	13816.44	1.000	329.3	1042.4	10
183	4.575	.025	3	0	13589.	0.	13589.26	1.000	332.2	1042.3	10
184	4.600	.025	3	0	13370.	0.	13369.87	1.000	335.0	1042.2	10
185	4.625	.025	3	0	13159.	0.	13159.38	1.000	337.7	1042.1	10
186	4.650	.025	3	0	12957.	0.	12956.77	1.000	340.4	1042.1	10
187	4.675	.025	3	0	12763.	0.	12762.70	1.000	343.1	1042.0	10
188	4.700	.025	3	0	12579.	0.	12578.67	1.000	345.7	1041.9	10
189	4.725	.025	3	0	12406.	0.	12405.86	1.000	348.3	1041.8	10
190	4.750	.025	3	0	12242.	0.	12242.16	1.000	350.9	1041.7	10
191	4.775	.025	3	0	12087.	0.	12087.43	1.000	353.4	1041.7	10
192	4.800	.025	3	0	11940.	0.	11940.04	1.000	355.9	1041.6	10
193	4.825	.025	3	0	11800.	0.	11800.18	1.000	358.4	1041.5	10
194	4.850	.025	3	0	11667.	0.	11666.67	1.000	360.8	1041.5	10
195	4.875	.025	3	0	11539.	0.	11538.52	1.000	363.2	1041.4	10
196	4.900	.025	3	0	11415.	0.	11415.25	1.000	365.6	1041.3	10
197	4.925	.025	3	0	11297.	0.	11296.94	1.000	368.0	1041.3	10
198	4.950	.025	3	0	11182.	0.	11182.39	1.000	370.3	1041.2	10

KSLUMP= 2 HCK= 17.92 DELT= .05 DEL= 15.00

199	4.975	.025	3	0	11027.	0.	11027.22	1.000	380.3	1041.2	10
200	5.000	.025	3	0	10865.	0.	10865.34	1.000	386.4	1041.1	10
201	5.025	.025	3	0	10696.	0.	10695.58	1.000	386.4	1041.1	10
202	5.050	.025	3	0	10601.	0.	10600.72	1.000	388.2	1041.0	10
203	5.075	.025	3	0	10517.	0.	10517.41	1.000	390.0	1041.0	10
204	5.100	.025	3	0	10433.	0.	10432.74	1.000	391.7	1041.0	10
205	5.125	.025	3	0	10345.	0.	10344.80	1.000	393.5	1040.9	10
206	5.150	.025	3	0	10258.	0.	10257.95	1.000	395.3	1040.9	10
207	5.175	.025	3	0	10175.	0.	10174.93	1.000	397.0	1040.8	10
208	5.200	.025	3	0	10090.	0.	10089.54	1.000	398.7	1040.8	10
209	5.225	.025	3	0	10004.	0.	10004.27	1.000	400.4	1040.8	10
210	5.250	.025	3	0	9920.	0.	9920.06	1.000	402.1	1040.7	10
211	5.275	.025	3	0	9837.	0.	9836.77	1.000	403.8	1040.7	10
212	5.300	.025	3	0	9757.	0.	9756.59	1.000	405.5	1040.7	10
213	5.325	.025	3	0	9674.	0.	9673.73	1.000	407.2	1040.6	10
214	5.350	.025	3	0	9592.	0.	9591.84	1.000	408.8	1040.6	10
215	5.375	.025	3	0	9513.	0.	9512.74	1.000	410.4	1040.5	10
216	5.400	.025	3	0	9431.	0.	9431.01	1.000	412.1	1040.5	10
217	5.425	.025	3	0	9350.	0.	9349.88	1.000	413.7	1040.5	10
218	5.450	.025	3	0	9272.	0.	9272.07	1.000	415.2	1040.4	10
219	5.475	.025	3	0	9191.	0.	9191.25	1.000	416.8	1040.4	10
220	5.500	.025	3	0	9111.	0.	9110.66	1.000	418.4	1040.4	10
221	5.525	.025	3	0	9033.	0.	9033.48	1.000	419.9	1040.3	10
222	5.550	.025	3	0	8953.	0.	8953.34	1.000	421.5	1040.3	10
223	5.575	.025	3	0	8873.	0.	8873.48	1.000	423.0	1040.3	10
224	5.600	.025	3	0	8797.	0.	8797.11	1.000	424.5	1040.2	10
225	5.625	.025	3	0	8717.	0.	8717.41	1.000	426.0	1040.2	10
226	5.650	.025	3	0	8638.	0.	8638.44	1.000	427.5	1040.2	10
227	5.675	.025	3	0	8563.	0.	8562.62	1.000	428.9	1040.1	10
228	5.700	.025	3	0	8484.	0.	8483.53	1.000	430.4	1040.1	10
229	5.725	.025	3	0	8405.	0.	8404.79	1.000	431.8	1040.1	10
230	5.750	.025	3	0	8330.	0.	8329.68	1.000	433.2	1040.0	10
231	5.775	.025	3	0	8251.	0.	8251.34	1.000	434.7	1040.0	10
232	5.800	.025	3	0	8173.	0.	8172.98	1.000	436.1	1040.0	10
233	5.825	.025	3	0	8098.	0.	8098.32	1.000	437.4	1040.0	10
234	5.850	.025	3	0	8021.	0.	8021.31	1.000	438.8	1039.9	10
235	5.875	.025	3	0	7944.	0.	7944.31	1.000	440.2	1039.9	10
236	5.900	.025	3	0	7871.	0.	7870.65	1.000	441.5	1039.9	10
237	5.925	.025	3	0	7794.	0.	7794.26	1.000	442.9	1039.8	10
238	5.950	.025	3	0	7718.	0.	7717.93	1.000	444.2	1039.8	10
239	5.975	.025	3	0	7642.	0.	7642.24	1.000	445.5	1039.8	10
240	6.000	.025	3	0	7567.	0.	7566.62	1.000	446.8	1039.7	10
241	6.025	.025	3	0	7494.	0.	7494.43	1.000	448.1	1039.7	10

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
242	6.050	.025	3	0	7420.	0.	7419.57	1.000	449.3	1039.7	10
243	6.075	.025	3	0	7344.	0.	7344.41	1.000	450.6	1039.7	10
244	6.100	.025	3	0	7272.	0.	7272.31	1.000	451.8	1039.6	10
245	6.125	.025	3	0	7198.	0.	7197.60	1.000	453.1	1039.6	10
246	6.150	.025	3	0	7123.	0.	7122.60	1.000	454.3	1039.6	10
247	6.175	.025	3	0	7051.	0.	7051.13	1.000	455.5	1039.6	10
248	6.200	.025	3	0	6977.	0.	6976.66	1.000	456.7	1039.5	10
249	6.225	.025	3	0	6902.	0.	6902.05	1.000	457.9	1039.5	10
250	6.250	.025	3	0	6828.	0.	6827.76	1.000	459.0	1039.5	10
251	6.275	.025	3	0	6754.	0.	6753.66	1.000	460.2	1039.4	10
252	6.300	.025	3	0	6683.	0.	6682.73	1.000	461.3	1039.4	10
253	6.325	.025	3	0	6608.	0.	6608.48	1.000	462.5	1039.4	10
254	6.350	.025	3	0	6535.	0.	6534.57	1.000	463.6	1039.4	10
255	6.375	.025	3	0	6461.	0.	6460.62	1.000	464.7	1039.3	10
256	6.400	.025	3	0	6387.	0.	6387.06	1.000	465.8	1039.3	10
257	6.425	.025	3	0	6314.	0.	6313.87	1.000	466.9	1039.3	10

258	6.450	.025	3	0	6240.	0.	6240.29	1.000	467.9	1039.2	10
259	6.475	.025	3	0	6168.	0.	6167.50	1.000	469.0	1039.2	10
260	6.500	.025	3	0	6094.	0.	6094.36	1.000	470.0	1039.2	10
261	6.525	.025	3	0	6022.	0.	6021.63	1.000	471.1	1039.2	10
262	6.550	.025	3	0	5949.	0.	5948.56	1.000	472.1	1039.1	10
263	6.575	.025	3	0	5876.	0.	5875.93	1.000	473.1	1039.1	10
264	6.600	.025	3	0	5803.	0.	5803.40	1.000	474.1	1039.1	10
265	6.625	.025	3	0	5731.	0.	5730.91	1.000	475.0	1039.1	10
266	6.650	.025	3	0	5659.	0.	5658.55	1.000	476.0	1039.0	10
267	6.675	.025	3	0	5586.	0.	5586.25	1.000	477.0	1039.0	10
268	6.700	.025	3	0	5514.	0.	5514.12	1.000	477.9	1039.0	10
269	6.725	.025	3	0	5442.	0.	5442.06	1.000	478.8	1039.0	10
270	6.750	.025	3	0	5370.	0.	5369.80	1.000	479.8	1038.9	10
271	6.775	.025	3	0	5298.	0.	5298.03	1.000	480.7	1038.9	10
272	6.800	.025	3	0	5226.	0.	5226.08	1.000	481.6	1038.9	10
273	6.825	.025	3	0	5157.	0.	5156.86	1.000	482.5	1038.9	10
274	6.850	.025	3	0	5088.	0.	5087.51	1.000	483.3	1038.8	10
275	6.875	.025	3	0	5015.	0.	5015.19	1.000	484.2	1038.8	10
276	6.900	.025	3	0	4943.	0.	4942.78	1.000	485.0	1038.8	10
277	6.925	.025	3	0	4873.	0.	4873.10	1.000	485.9	1038.8	10
278	6.950	.025	3	0	4803.	0.	4803.35	1.000	486.7	1038.7	10
279	6.975	.025	3	0	4731.	0.	4731.10	1.000	487.5	1038.7	10
280	7.000	.025	3	0	4658.	0.	4658.43	1.000	488.3	1038.7	10
281	7.025	.025	3	0	4588.	0.	4588.01	1.000	489.1	1038.6	10
282	7.050	.025	3	0	4513.	0.	4512.92	1.000	489.9	1038.6	10
283	7.075	.025	3	0	4436.	0.	4435.64	1.000	490.6	1038.6	10
284	7.100	.025	3	0	4359.	0.	4359.18	1.000	491.4	1038.6	10
285	7.125	.025	3	0	4281.	0.	4281.10	1.000	492.1	1038.5	10
286	7.150	.025	3	0	4201.	0.	4201.32	1.000	492.8	1038.5	10
287	7.175	.025	3	0	4120.	0.	4120.17	1.000	493.5	1038.5	10
288	7.200	.025	3	0	4038.	0.	4037.59	1.000	494.2	1038.5	10
289	7.225	.025	3	0	3954.	0.	3954.44	1.000	494.9	1038.4	10
290	7.250	.025	3	0	3871.	0.	3870.64	1.000	495.5	1038.4	10
291	7.275	.025	3	0	3786.	0.	3786.36	1.000	496.2	1038.4	10
292	7.300	.025	3	0	3701.	0.	3701.29	1.000	496.8	1038.3	10
293	7.325	.025	3	0	3616.	0.	3616.37	1.000	497.4	1038.3	10
294	7.350	.025	3	0	3531.	0.	3530.73	1.000	498.0	1038.3	10
295	7.375	.025	3	0	3445.	0.	3445.30	1.000	498.6	1038.2	10
296	7.400	.025	3	0	3360.	0.	3359.57	1.000	499.2	1038.2	10
297	7.425	.025	3	0	3274.	0.	3273.92	1.000	499.7	1038.2	10
298	7.450	.025	3	0	3188.	0.	3187.73	1.000	500.3	1038.1	10
299	7.475	.025	3	0	3102.	0.	3102.18	1.000	500.8	1038.1	10
300	7.500	.025	3	0	3016.	0.	3016.15	1.000	501.3	1038.1	10
301	7.525	.025	3	0	2930.	0.	2930.36	1.000	501.8	1038.0	10

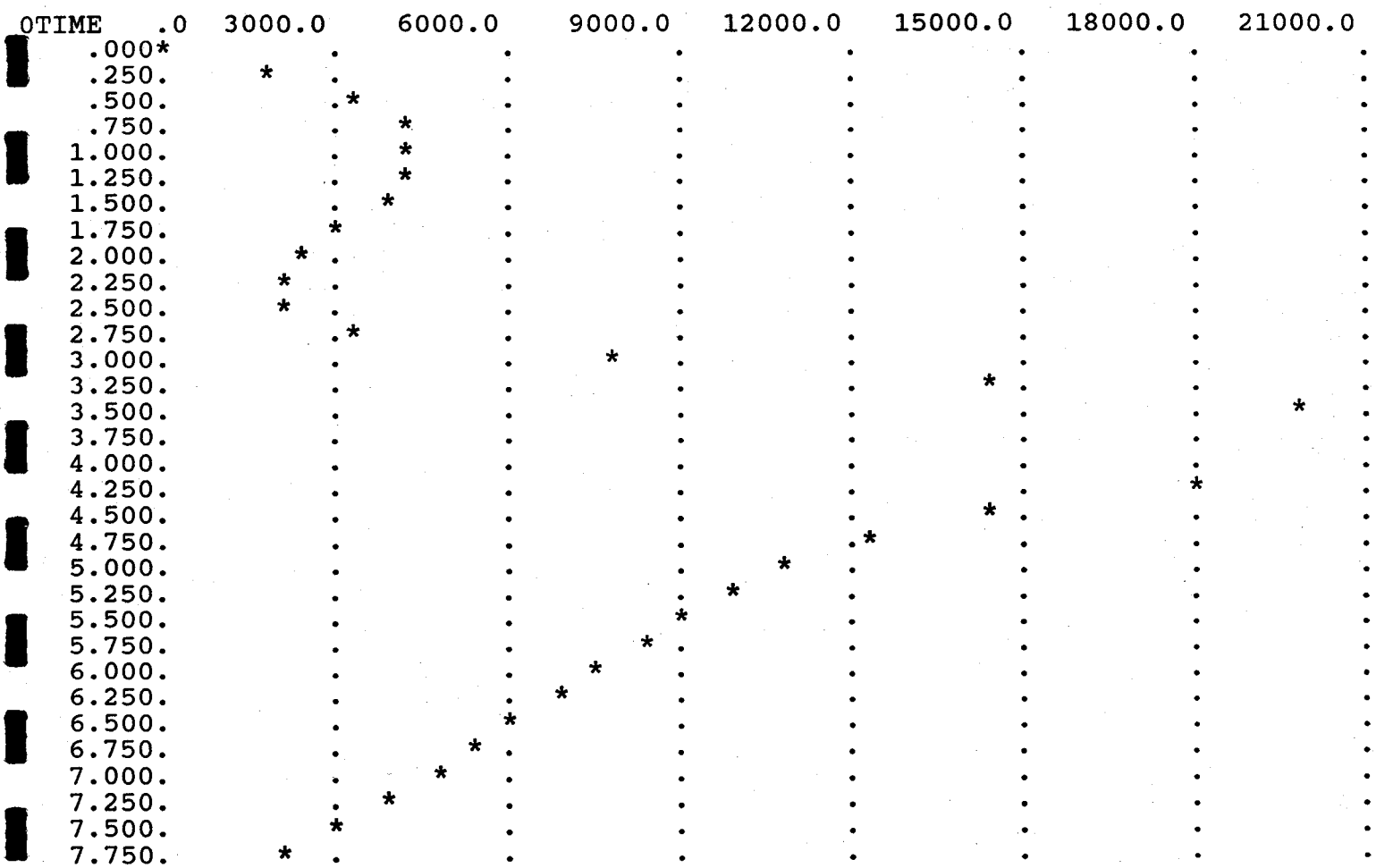
I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
302	7.550	.025	3	0	2845.	0.	2844.84	1.000	502.3	1038.0	10
303	7.575	.025	3	0	2759.	0.	2759.10	1.000	502.8	1038.0	10
304	7.600	.025	3	0	2674.	0.	2673.70	1.000	503.2	1037.9	10
305	7.625	.025	3	0	2588.	0.	2588.36	1.000	503.7	1037.9	10
306	7.650	.025	3	0	2503.	0.	2503.45	1.000	504.1	1037.9	10
307	7.675	.025	3	0	2418.	0.	2418.37	1.000	504.5	1037.8	10
308	7.700	.025	3	0	2334.	0.	2333.81	1.000	504.9	1037.8	10
309	7.725	.025	3	0	2249.	0.	2249.19	1.000	505.3	1037.8	10

KTT= 0 I= 309 T= 7.73

OUTPUT SUMMARY

QBP	MAX OUTFLOW(CFS) THRU BREACH	22828.
TP	TIME(HR) AT WHICH PEAK OUTFLOW OCCURS	3.83
QP	MAX TOTAL OUTFLOW(CFS) OCCURRING AT TIME TP	22828.

TRS	DURATION(HR) OF RISING LIMB OF HYDROGRAPH	3.80
TB	TIME(HR) AT WHICH SIGN. RISE IN OUTFLOW STARTS	.00
BRD	FINAL DEPTH(FT) OF BREACH	19.00
BRW	FINAL TOP WIDTH(FT) OF BREACH AT PEAK BREACH FLOW	216.19
HU	ELEV(FT) OF TOP OF DAM	1055.40
HY	FINAL ELEV(FT) OF RESERVOIR WATER SURFACE	1037.77
HC	FINAL ELEV(FT) OF BOTTOM OF BREACH	1036.400
AGL	ACUTE ANGLE THAT BREACH SIDE MAKES WITH VERTICAL AT QBP	45.000
QO	OUTFLOW (CFS) AT T=0.0	116.6861
Z	SIDE SLOPE OF BREACH (FT/FT) AT PEAK BREACH FLOW	.58
TFH	TIME OF FAILURE (HR) WHICH IS LINEAR EQUIVALENT OF TRS OBTAINED BY USING SIMPLIFIED DAM-BREAK DISCHARGE EQUATION	.23
TFHI	TIME OF FAILURE (HR) WHICH IS LINEAR EQUIVALENT OF TRS OBTAINED BY INTEGRATING QB VS TIME FROM T=0 TO T=TP	1.51
BO	BOTTOM WIDTH (FT) OF BREACH AT PEAK BREACH FLOW	194.26



WHITE TANK FRS #4 BREACH PARAMETER ESTIMATION WT4BR1X.DAT

HI= 1053.00 HU= 1055.40 HL= 1036.40 HPI= 1036.40 HSP= .00 PI

(QIN(I),I=1,8)

.00	100.00	7165.00	22491.00	12000.00	4172.00	600.00	26.00

(TIN(I),I=1,8)

.00	2.25	2.75	3.00	4.25	7.00	8.00	24.00

(RSA(I),I=1,8)

239.50	215.50	200.50	148.50	117.50	49.50	40.50	20.20

(HSA(I),I=1,8)

1056.00	1054.00	1052.00	1050.00	1048.00	1042.00	1040.00	1000.00

(HSTW(I),I=1,8)

1033.00	1034.50	1036.50	.00	.00	.00	.00	.00

(BSTW(I),I=1,8)

400.00	850.00	2000.00	.00	.00	.00	.00	.00

(CMTW(I),I=1,8)

.04	.03	.03	.00	.00	.00	.00	.00

ZU= 3.00 ZD= 2.50 ZC= .00 GL= .00 GS= .00 VMP= .00

D50C= .00 PORC= .00 UWC= .00 CNC= .0000 AFRC= .00 COHC= .0 UN

D50S= .07 PORS= .24 UWS=125.00 CNS=2.0000 AFRS= 30.00 COHS= 100.0 UN

BR= 1.00 WC= 10.0 CRL= 6839.0 SM= 40.00 D50DF= .07 UNFCDF= 87.00 BM

DTH= .100 DBG= .001 H= .0000 TEH= 15.0 ERR= .50 FPT= .0 TPR

1

AFR= .0 TH1= 60.00 H1= 5.54 TH2= 45.00 H2= 17.91 TH3= 37

1

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
1	.025	.025	4	0	325.	0.	325.33	1.000	3.3	1053.0	10
2	.050	.025	4	0	797.	0.	796.86	1.000	5.2	1053.0	10
3	.075	.025	4	0	1205.	0.	1204.95	1.000	6.3	1053.0	10
4	.100	.025	4	0	1618.	0.	1618.23	1.000	7.3	1053.0	10
5	.125	.025	4	0	2047.	0.	2046.94	1.000	8.3	1053.0	10
6	.150	.025	4	0	2469.	0.	2469.06	1.000	9.1	1052.9	10
7	.175	.025	4	0	2891.	0.	2890.70	1.000	9.9	1052.9	10
8	.200	.025	4	0	3305.	0.	3304.80	1.000	10.6	1052.9	10
9	.225	.025	4	0	3713.	0.	3712.89	1.000	11.3	1052.9	10
10	.250	.025	4	0	4108.	0.	4107.64	1.000	11.9	1052.8	10
11	.275	.025	4	0	4491.	0.	4490.65	1.000	12.5	1052.8	10
12	.300	.025	4	0	4862.	0.	4861.52	1.000	13.0	1052.7	10
13	.325	.025	4	0	5220.	0.	5219.93	1.000	13.5	1052.7	10
14	.350	.025	4	0	5566.	0.	5565.67	1.000	14.0	1052.6	10
15	.375	.025	4	0	5899.	0.	5898.71	1.000	14.5	1052.6	10
16	.400	.025	4	0	6219.	0.	6218.92	1.000	14.9	1052.5	10
17	.425	.025	4	0	6526.	0.	6526.48	1.000	15.3	1052.5	10
18	.450	.025	4	0	6821.	0.	6821.25	1.000	15.7	1052.4	10
19	.475	.025	4	0	7100.	0.	7100.33	1.000	16.1	1052.3	10

20	.500	.025	4	0	7369.	0.	7369.17	1.000	16.4	1052.2	10
21	.525	.025	4	0	7626.	0.	7625.67	1.000	16.8	1052.2	10
22	.550	.025	4	0	7870.	0.	7870.03	1.000	17.1	1052.1	10
23	.575	.025	4	0	8103.	0.	8102.53	1.000	17.4	1052.0	10
24	.600	.025	4	0	8323.	0.	8323.06	1.000	17.7	1051.9	10
25	.625	.025	4	0	8532.	0.	8531.66	1.000	18.0	1051.8	10
26	.650	.025	4	0	8728.	0.	8728.25	1.000	18.3	1051.7	10
27	.675	.025	4	0	8913.	0.	8913.15	1.000	18.5	1051.7	10
28	.700	.025	4	0	9086.	0.	9086.24	1.000	18.8	1051.6	10
29	.725	.025	4	0	9236.	0.	9235.51	1.000	19.0	1051.5	10
30	.750	.025	4	0	9190.	0.	9189.63	1.000	19.0	1051.4	10
31	.775	.025	4	0	9143.	0.	9142.86	1.000	19.0	1051.3	10
32	.800	.025	4	0	9095.	0.	9095.35	1.000	19.0	1051.1	10
33	.825	.025	4	0	9047.	0.	9047.15	1.000	19.0	1051.0	10
34	.850	.025	4	0	8998.	0.	8998.13	1.000	19.0	1050.9	10
35	.875	.025	4	0	8948.	0.	8948.38	1.000	19.0	1050.8	10
36	.900	.025	4	0	8898.	0.	8897.73	1.000	19.0	1050.7	10

PIPE FLOW TO WEIR FLOW TRANSITION

KSLUMP= 1 HCK= 15.83 DELT= .02 DEL= 30.00

38	.950	.025	3	0	9278.	0.	9278.13	1.000	40.9	1050.6	10
39	.975	.025	3	0	9390.	0.	9390.43	1.000	42.7	1050.5	10
40	1.000	.025	3	0	9511.	0.	9511.48	1.000	44.7	1050.4	10
41	1.025	.025	3	0	9628.	0.	9628.46	1.000	46.7	1050.2	10
42	1.050	.025	3	0	9734.	0.	9734.08	1.000	48.8	1050.1	10
43	1.075	.025	3	0	9827.	0.	9827.27	1.000	50.8	1050.0	10
44	1.100	.025	3	0	9908.	0.	9908.35	1.000	52.9	1049.8	10
45	1.125	.025	3	0	9977.	0.	9977.35	1.000	55.0	1049.7	10
46	1.150	.025	3	0	10034.	0.	10033.64	1.000	57.1	1049.6	10
47	1.175	.025	3	0	10076.	0.	10075.51	1.000	59.2	1049.4	10
48	1.200	.025	3	0	10105.	0.	10105.26	1.000	61.3	1049.3	10
49	1.225	.025	3	0	10120.	0.	10119.96	1.000	63.4	1049.1	10
50	1.250	.025	3	0	10120.	0.	10120.10	1.000	65.5	1049.0	10
51	1.275	.025	3	0	10105.	0.	10104.89	1.000	67.6	1048.8	10
52	1.300	.025	3	0	10075.	0.	10074.86	1.000	69.8	1048.6	10
53	1.325	.025	3	0	10028.	0.	10028.19	1.000	71.9	1048.5	10
54	1.350	.025	3	0	9965.	0.	9965.39	1.000	73.9	1048.3	10
55	1.375	.025	3	0	9886.	0.	9886.25	1.000	76.0	1048.1	10
56	1.400	.025	3	0	9791.	0.	9790.90	1.000	78.1	1048.0	10
57	1.425	.025	3	0	9680.	0.	9680.03	1.000	80.1	1047.8	10
58	1.450	.025	3	0	9556.	0.	9556.27	1.000	82.1	1047.6	10
59	1.475	.025	3	0	9419.	0.	9418.55	1.000	84.1	1047.4	10
60	1.500	.025	3	0	9268.	0.	9267.62	1.000	86.0	1047.3	10
61	1.525	.025	3	0	9104.	0.	9103.85	1.000	87.9	1047.1	10

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
62	1.550	.025	3	0	8929.	0.	8928.81	1.000	89.8	1046.9	10
63	1.575	.025	3	0	8743.	0.	8742.62	1.000	91.6	1046.7	10
64	1.600	.025	3	0	8546.	0.	8545.53	1.000	93.4	1046.6	10
65	1.625	.025	3	0	8339.	0.	8338.93	1.000	95.1	1046.4	10
66	1.650	.025	3	0	8123.	0.	8123.19	1.000	96.8	1046.2	10
67	1.675	.025	3	0	7900.	0.	7899.78	1.000	98.5	1046.0	10
68	1.700	.025	3	0	7669.	0.	7668.68	1.000	100.1	1045.9	10
69	1.725	.025	3	0	7431.	0.	7431.37	1.000	101.7	1045.7	10
70	1.750	.025	3	0	7189.	0.	7188.76	1.000	103.2	1045.5	10
71	1.775	.025	3	0	6972.	0.	6971.68	1.000	104.6	1045.4	10
72	1.800	.025	3	0	6887.	0.	6887.38	1.000	106.1	1045.2	10
73	1.825	.025	3	0	6797.	0.	6797.12	1.000	107.5	1045.0	10
74	1.850	.025	3	0	6699.	0.	6698.93	1.000	108.9	1044.9	10
75	1.875	.025	3	0	6594.	0.	6594.32	1.000	110.3	1044.7	10
76	1.900	.025	3	0	6483.	0.	6482.64	1.000	111.6	1044.5	10
77	1.925	.025	3	0	6364.	0.	6364.01	1.000	113.0	1044.4	10

78	1.950	.025	3	0	6239.	0.	6238.99	1.000	114.3	1044.2	10
79	1.975	.025	3	0	6108.	0.	6107.87	1.000	115.5	1044.0	10
80	2.000	.025	3	0	5971.	0.	5971.22	1.000	116.8	1043.8	10
81	2.025	.025	3	0	5829.	0.	5829.20	1.000	118.0	1043.7	10
82	2.050	.025	3	0	5682.	0.	5681.97	1.000	119.2	1043.5	10
83	2.075	.025	3	0	5530.	0.	5530.19	1.000	120.4	1043.3	10
84	2.100	.025	3	0	5374.	0.	5373.84	1.000	121.5	1043.1	10
85	2.125	.025	3	0	5214.	0.	5214.17	1.000	122.6	1043.0	10
86	2.150	.025	3	0	5051.	0.	5050.66	1.000	123.6	1042.8	10
87	2.175	.025	3	0	4884.	0.	4884.17	1.000	124.7	1042.6	10
88	2.200	.025	3	0	4715.	0.	4714.92	1.000	125.6	1042.4	10
89	2.225	.025	3	0	4544.	0.	4543.58	1.000	126.6	1042.2	10
90	2.250	.025	3	0	4371.	0.	4370.52	1.000	127.5	1042.1	10
91	2.275	.025	3	0	4202.	0.	4201.58	1.000	128.4	1041.9	10
92	2.300	.025	3	0	4049.	0.	4049.01	1.000	129.2	1041.7	10
93	2.325	.025	3	0	3918.	0.	3918.00	1.000	130.0	1041.6	10
94	2.350	.025	3	0	3808.	0.	3808.13	1.000	130.8	1041.5	10
95	2.375	.025	3	0	3719.	0.	3719.21	1.000	131.6	1041.4	10
96	2.400	.025	3	0	3651.	0.	3650.65	1.000	132.4	1041.3	10
97	2.425	.025	3	0	3602.	0.	3601.84	1.000	133.1	1041.2	10

KSLUMP= 2 HCK= 17.92 DELT= .17 DEL= 15.00

98	2.450	.025	3	0	3561.	0.	3560.76	1.000	137.1	1041.2	10
99	2.475	.025	3	0	3534.	0.	3533.70	1.000	139.2	1041.2	10
100	2.500	.025	3	0	3526.	0.	3526.27	1.000	141.5	1041.1	10
101	2.525	.025	3	0	3538.	0.	3538.34	1.000	143.9	1041.1	10
102	2.550	.025	3	0	3569.	0.	3569.05	1.000	146.5	1041.2	10
103	2.575	.025	3	0	3618.	0.	3617.68	1.000	149.2	1041.2	10
104	2.600	.025	3	0	3675.	0.	3674.75	1.000	149.2	1041.2	10
105	2.625	.025	3	0	3767.	0.	3767.40	1.000	149.8	1041.3	10
106	2.650	.025	3	0	3875.	0.	3874.59	1.000	150.5	1041.4	10
107	2.675	.025	3	0	3997.	0.	3996.60	1.000	151.2	1041.5	10
108	2.700	.025	3	0	4133.	0.	4133.11	1.000	151.9	1041.6	10
109	2.725	.025	3	0	4284.	0.	4283.70	1.000	152.6	1041.7	10
110	2.750	.025	3	0	4448.	0.	4447.76	1.000	153.4	1041.8	10
111	2.775	.025	3	0	4641.	0.	4641.28	1.000	154.2	1041.9	10
112	2.800	.025	3	0	4895.	0.	4894.67	1.000	155.0	1042.1	10
113	2.825	.025	3	0	5219.	0.	5218.64	1.000	155.9	1042.3	10
114	2.850	.025	3	0	5606.	0.	5605.94	1.000	156.9	1042.5	10
115	2.875	.025	3	0	6052.	0.	6051.83	1.000	157.9	1042.8	10
116	2.900	.025	3	0	6552.	0.	6551.92	1.000	159.0	1043.1	10
117	2.925	.025	3	0	7103.	0.	7102.97	1.000	160.2	1043.4	10
118	2.950	.025	3	0	7703.	0.	7703.09	1.000	161.5	1043.7	10
119	2.975	.025	3	0	8350.	0.	8350.18	1.000	163.0	1044.1	10
120	3.000	.025	3	0	9044.	0.	9043.74	1.000	164.5	1044.4	10
121	3.025	.025	3	0	9763.	0.	9763.26	1.000	166.2	1044.8	10

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
122	3.050	.025	3	0	10471.	0.	10471.19	1.000	168.0	1045.1	10
123	3.075	.025	3	0	11150.	0.	11149.68	1.000	169.9	1045.4	10
124	3.100	.025	3	0	12017.	0.	12016.96	1.000	171.9	1045.6	10
125	3.125	.025	3	0	12861.	0.	12861.30	1.000	174.1	1045.8	10
126	3.150	.025	3	0	13649.	0.	13648.81	1.000	176.5	1046.0	10
127	3.175	.025	3	0	14384.	0.	14384.24	1.000	178.9	1046.2	10
128	3.200	.025	3	0	15072.	0.	15072.29	1.000	181.5	1046.3	10
129	3.225	.025	3	0	15716.	0.	15715.54	1.000	184.2	1046.4	10
130	3.250	.025	3	0	16316.	0.	16315.79	1.000	187.0	1046.5	10
131	3.275	.025	3	0	16877.	0.	16876.71	1.000	189.9	1046.6	10
132	3.300	.025	3	0	17398.	0.	17397.78	1.000	192.8	1046.7	10
133	3.325	.025	3	0	17880.	0.	17880.40	1.000	195.9	1046.7	10
134	3.350	.025	3	0	18327.	0.	18327.47	1.000	199.0	1046.8	10
135	3.375	.025	3	0	18736.	0.	18736.35	1.000	202.2	1046.8	10

136	3.400	.025	3	0	19110.	0.	19110.36	1.000	205.5	1046.8	10
137	3.425	.025	3	0	19449.	0.	19449.43	1.000	208.8	1046.8	10
138	3.450	.025	3	0	19752.	0.	19752.13	1.000	212.2	1046.8	10
139	3.475	.025	3	0	20020.	0.	20019.69	1.000	215.6	1046.8	10
140	3.500	.025	3	0	20253.	0.	20253.43	1.000	219.1	1046.8	10
141	3.525	.025	3	0	20452.	0.	20452.19	1.000	222.6	1046.7	10
142	3.550	.025	3	0	20617.	0.	20617.08	1.000	226.1	1046.7	10
143	3.575	.025	3	0	20749.	0.	20749.31	1.000	229.7	1046.6	10
144	3.600	.025	3	0	20849.	0.	20849.13	1.000	233.2	1046.6	10
145	3.625	.025	3	0	20919.	0.	20919.28	1.000	236.8	1046.5	10
146	3.650	.025	3	0	20956.	0.	20956.35	1.000	240.4	1046.4	10
147	3.675	.025	3	0	20963.	0.	20962.64	1.000	244.0	1046.3	10
148	3.700	.025	3	0	20938.	0.	20938.05	1.000	247.5	1046.2	10
149	3.725	.025	3	0	20884.	0.	20884.17	1.000	251.1	1046.2	10
150	3.750	.025	3	0	20803.	0.	20802.58	1.000	254.7	1046.1	10
151	3.775	.025	3	0	20694.	0.	20694.04	1.000	258.2	1046.0	10
152	3.800	.025	3	0	20561.	0.	20560.82	1.000	261.7	1045.8	10
153	3.825	.025	3	0	20403.	0.	20402.64	1.000	265.2	1045.7	10
154	3.850	.025	3	0	20225.	0.	20224.87	1.000	268.7	1045.6	10
155	3.875	.025	3	0	20028.	0.	20027.84	1.000	272.1	1045.5	10
156	3.900	.025	3	0	19811.	0.	19811.27	1.000	275.5	1045.4	10
157	3.925	.025	3	0	19684.	0.	19684.04	1.000	278.8	1045.3	10
158	3.950	.025	3	0	19542.	0.	19542.45	1.000	282.2	1045.2	10
159	3.975	.025	3	0	19377.	0.	19377.48	1.000	285.5	1045.0	10
160	4.000	.025	3	0	19193.	0.	19192.83	1.000	288.8	1044.9	10
161	4.025	.025	3	0	18987.	0.	18986.53	1.000	292.0	1044.8	10
162	4.050	.025	3	0	18766.	0.	18765.74	1.000	295.2	1044.7	10
163	4.075	.025	3	0	18527.	0.	18526.95	1.000	298.4	1044.5	10
164	4.100	.025	3	0	18273.	0.	18272.55	1.000	301.5	1044.4	10
165	4.125	.025	3	0	18003.	0.	18003.30	1.000	304.6	1044.3	10
166	4.150	.025	3	0	17721.	0.	17720.81	1.000	307.6	1044.1	10
167	4.175	.025	3	0	17427.	0.	17426.72	1.000	310.6	1044.0	10
168	4.200	.025	3	0	17120.	0.	17120.50	1.000	313.5	1043.8	10
169	4.225	.025	3	0	16805.	0.	16805.28	1.000	316.4	1043.7	10
170	4.250	.025	3	0	16483.	0.	16482.73	1.000	319.2	1043.6	10
171	4.275	.025	3	0	16156.	0.	16155.96	1.000	322.0	1043.4	10
172	4.300	.025	3	0	15836.	0.	15835.54	1.000	324.7	1043.3	10
173	4.325	.025	3	0	15525.	0.	15525.29	1.000	327.3	1043.2	10
174	4.350	.025	3	0	15226.	0.	15226.36	1.000	329.9	1043.0	10
175	4.375	.025	3	0	14939.	0.	14939.01	1.000	332.5	1042.9	10
176	4.400	.025	3	0	14664.	0.	14663.92	1.000	335.0	1042.8	10
177	4.425	.025	3	0	14399.	0.	14398.64	1.000	337.4	1042.7	10
178	4.450	.025	3	0	14145.	0.	14145.34	1.000	339.8	1042.6	10
179	4.475	.025	3	0	13904.	0.	13903.75	1.000	342.2	1042.5	10
180	4.500	.025	3	0	13673.	0.	13673.40	1.000	344.5	1042.4	10
181	4.525	.025	3	0	13453.	0.	13453.20	1.000	346.8	1042.3	10

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
182	4.550	.025	3	0	13245.	0.	13244.93	1.000	349.1	1042.2	10
183	4.575	.025	3	0	13046.	0.	13046.05	1.000	351.3	1042.1	10
184	4.600	.025	3	0	12856.	0.	12856.34	1.000	353.5	1042.0	10
185	4.625	.025	3	0	12677.	0.	12677.19	1.000	355.7	1042.0	10
186	4.650	.025	3	0	12507.	0.	12507.44	1.000	357.8	1041.9	10
187	4.675	.025	3	0	12348.	0.	12348.45	1.000	359.9	1041.8	10
188	4.700	.025	3	0	12199.	0.	12198.59	1.000	362.0	1041.8	10
189	4.725	.025	3	0	12056.	0.	12055.63	1.000	364.0	1041.7	10
190	4.750	.025	3	0	11920.	0.	11920.32	1.000	366.1	1041.6	10
191	4.775	.025	3	0	11792.	0.	11791.85	1.000	368.1	1041.6	10
192	4.800	.025	3	0	11669.	0.	11668.61	1.000	370.1	1041.5	10
193	4.825	.025	3	0	11551.	0.	11550.67	1.000	372.0	1041.5	10
194	4.850	.025	3	0	11437.	0.	11436.82	1.000	374.0	1041.4	10
195	4.875	.025	3	0	11327.	0.	11327.12	1.000	375.9	1041.4	10
196	4.900	.025	3	0	11221.	0.	11220.79	1.000	377.8	1041.3	10

197	4.925	.025	3	0	11117.	0.	11117.04	1.000	379.7	1041.3	10
198	4.950	.025	3	0	11013.	0.	11013.17	1.000	381.6	1041.2	10
199	4.975	.025	3	0	10911.	0.	10911.40	1.000	383.5	1041.2	10
200	5.000	.025	3	0	10817.	0.	10816.56	1.000	385.3	1041.1	10
201	5.025	.025	3	0	10723.	0.	10723.21	1.000	387.2	1041.1	10
202	5.050	.025	3	0	10631.	0.	10631.39	1.000	389.0	1041.0	10
203	5.075	.025	3	0	10538.	0.	10537.52	1.000	390.8	1041.0	10
204	5.100	.025	3	0	10445.	0.	10445.09	1.000	392.6	1041.0	10
205	5.125	.025	3	0	10358.	0.	10358.12	1.000	394.3	1040.9	10
206	5.150	.025	3	0	10269.	0.	10268.74	1.000	396.1	1040.9	10
207	5.175	.025	3	0	10180.	0.	10180.49	1.000	397.8	1040.8	10
208	5.200	.025	3	0	10094.	0.	10093.68	1.000	399.6	1040.8	10
209	5.225	.025	3	0	10007.	0.	10007.41	1.000	401.3	1040.8	10
210	5.250	.025	3	0	9923.	0.	9922.62	1.000	403.0	1040.7	10
211	5.275	.025	3	0	9838.	0.	9838.03	1.000	404.7	1040.7	10
212	5.300	.025	3	0	9754.	0.	9754.13	1.000	406.3	1040.6	10
213	5.325	.025	3	0	9672.	0.	9671.61	1.000	408.0	1040.6	10
214	5.350	.025	3	0	9592.	0.	9592.28	1.000	409.6	1040.6	10
215	5.375	.025	3	0	9510.	0.	9510.30	1.000	411.3	1040.5	10
216	5.400	.025	3	0	9428.	0.	9428.49	1.000	412.9	1040.5	10
217	5.425	.025	3	0	9350.	0.	9350.39	1.000	414.5	1040.5	10
218	5.450	.025	3	0	9269.	0.	9268.85	1.000	416.1	1040.4	10
219	5.475	.025	3	0	9188.	0.	9188.37	1.000	417.6	1040.4	10
220	5.500	.025	3	0	9111.	0.	9110.85	1.000	419.2	1040.4	10
221	5.525	.025	3	0	9030.	0.	9030.37	1.000	420.7	1040.3	10
222	5.550	.025	3	0	8951.	0.	8950.56	1.000	422.3	1040.3	10
223	5.575	.025	3	0	8874.	0.	8873.81	1.000	423.8	1040.3	10
224	5.600	.025	3	0	8794.	0.	8794.13	1.000	425.3	1040.2	10
225	5.625	.025	3	0	8715.	0.	8714.76	1.000	426.8	1040.2	10
226	5.650	.025	3	0	8639.	0.	8638.52	1.000	428.3	1040.2	10
227	5.675	.025	3	0	8560.	0.	8559.82	1.000	429.7	1040.1	10
228	5.700	.025	3	0	8481.	0.	8480.63	1.000	431.2	1040.1	10
229	5.725	.025	3	0	8405.	0.	8405.48	1.000	432.6	1040.1	10
230	5.750	.025	3	0	8327.	0.	8326.65	1.000	434.1	1040.0	10
231	5.775	.025	3	0	8249.	0.	8248.64	1.000	435.5	1040.0	10
232	5.800	.025	3	0	8173.	0.	8173.47	1.000	436.9	1040.0	10
233	5.825	.025	3	0	8096.	0.	8095.94	1.000	438.3	1040.0	10
234	5.850	.025	3	0	8018.	0.	8018.41	1.000	439.6	1039.9	10
235	5.875	.025	3	0	7945.	0.	7945.04	1.000	441.0	1039.9	10
236	5.900	.025	3	0	7868.	0.	7868.10	1.000	442.3	1039.9	10
237	5.925	.025	3	0	7792.	0.	7792.03	1.000	443.7	1039.8	10
238	5.950	.025	3	0	7719.	0.	7718.92	1.000	445.0	1039.8	10
239	5.975	.025	3	0	7643.	0.	7643.12	1.000	446.3	1039.8	10
240	6.000	.025	3	0	7567.	0.	7567.00	1.000	447.6	1039.7	10
241	6.025	.025	3	0	7492.	0.	7491.95	1.000	448.9	1039.7	10

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
242	6.050	.025	3	0	7417.	0.	7416.58	1.000	450.2	1039.7	10
243	6.075	.025	3	0	7345.	0.	7344.68	1.000	451.4	1039.7	10
244	6.100	.025	3	0	7270.	0.	7270.14	1.000	452.7	1039.6	10
245	6.125	.025	3	0	7195.	0.	7195.32	1.000	453.9	1039.6	10
246	6.150	.025	3	0	7124.	0.	7123.60	1.000	455.1	1039.6	10
247	6.175	.025	3	0	7049.	0.	7048.87	1.000	456.3	1039.5	10
248	6.200	.025	3	0	6974.	0.	6973.98	1.000	457.5	1039.5	10
249	6.225	.025	3	0	6900.	0.	6899.82	1.000	458.7	1039.5	10
250	6.250	.025	3	0	6826.	0.	6825.84	1.000	459.9	1039.5	10
251	6.275	.025	3	0	6755.	0.	6754.61	1.000	461.0	1039.4	10
252	6.300	.025	3	0	6681.	0.	6680.86	1.000	462.2	1039.4	10
253	6.325	.025	3	0	6607.	0.	6606.62	1.000	463.3	1039.4	10
254	6.350	.025	3	0	6533.	0.	6532.74	1.000	464.4	1039.4	10
255	6.375	.025	3	0	6459.	0.	6459.10	1.000	465.5	1039.3	10
256	6.400	.025	3	0	6389.	0.	6388.68	1.000	466.6	1039.3	10
257	6.425	.025	3	0	6315.	0.	6314.98	1.000	467.7	1039.3	10

258	6.450	.025	3	0	6241.	0.	6241.30	1.000	468.7	1039.2	10
259	6.475	.025	3	0	6168.	0.	6168.01	1.000	469.8	1039.2	10
260	6.500	.025	3	0	6095.	0.	6094.77	1.000	470.8	1039.2	10
261	6.525	.025	3	0	6022.	0.	6021.94	1.000	471.9	1039.2	10
262	6.550	.025	3	0	5949.	0.	5948.78	1.000	472.9	1039.1	10
263	6.575	.025	3	0	5876.	0.	5876.04	1.000	473.9	1039.1	10
264	6.600	.025	3	0	5803.	0.	5803.41	1.000	474.9	1039.1	10
265	6.625	.025	3	0	5731.	0.	5730.83	1.000	475.9	1039.1	10
266	6.650	.025	3	0	5658.	0.	5658.37	1.000	476.8	1039.0	10
267	6.675	.025	3	0	5586.	0.	5585.98	1.000	477.8	1039.0	10
268	6.700	.025	3	0	5514.	0.	5513.75	1.000	478.8	1039.0	10
269	6.725	.025	3	0	5442.	0.	5441.59	1.000	479.7	1039.0	10
270	6.750	.025	3	0	5369.	0.	5369.24	1.000	480.6	1038.9	10
271	6.775	.025	3	0	5300.	0.	5300.01	1.000	481.5	1038.9	10
272	6.800	.025	3	0	5231.	0.	5230.60	1.000	482.4	1038.9	10
273	6.825	.025	3	0	5158.	0.	5158.20	1.000	483.3	1038.9	10
274	6.850	.025	3	0	5085.	0.	5085.28	1.000	484.2	1038.8	10
275	6.875	.025	3	0	5016.	0.	5015.88	1.000	485.0	1038.8	10
276	6.900	.025	3	0	4946.	0.	4945.98	1.000	485.9	1038.8	10
277	6.925	.025	3	0	4873.	0.	4873.16	1.000	486.7	1038.7	10
278	6.950	.025	3	0	4801.	0.	4800.66	1.000	487.5	1038.7	10
279	6.975	.025	3	0	4731.	0.	4730.91	1.000	488.4	1038.7	10
280	7.000	.025	3	0	4661.	0.	4661.11	1.000	489.1	1038.7	10
281	7.025	.025	3	0	4591.	0.	4590.66	1.000	489.9	1038.6	10
282	7.050	.025	3	0	4518.	0.	4517.59	1.000	490.7	1038.6	10
283	7.075	.025	3	0	4442.	0.	4442.44	1.000	491.5	1038.6	10
284	7.100	.025	3	0	4365.	0.	4364.76	1.000	492.2	1038.6	10
285	7.125	.025	3	0	4286.	0.	4285.73	1.000	492.9	1038.5	10
286	7.150	.025	3	0	4205.	0.	4205.09	1.000	493.7	1038.5	10
287	7.175	.025	3	0	4123.	0.	4123.08	1.000	494.4	1038.5	10
288	7.200	.025	3	0	4040.	0.	4040.01	1.000	495.0	1038.4	10
289	7.225	.025	3	0	3956.	0.	3956.38	1.000	495.7	1038.4	10
290	7.250	.025	3	0	3872.	0.	3871.93	1.000	496.4	1038.4	10
291	7.275	.025	3	0	3787.	0.	3787.22	1.000	497.0	1038.4	10
292	7.300	.025	3	0	3702.	0.	3702.07	1.000	497.6	1038.3	10
293	7.325	.025	3	0	3617.	0.	3616.56	1.000	498.2	1038.3	10
294	7.350	.025	3	0	3531.	0.	3531.22	1.000	498.9	1038.3	10
295	7.375	.025	3	0	3445.	0.	3445.21	1.000	499.4	1038.2	10
296	7.400	.025	3	0	3359.	0.	3359.27	1.000	500.0	1038.2	10
297	7.425	.025	3	0	3274.	0.	3273.57	1.000	500.6	1038.2	10
298	7.450	.025	3	0	3188.	0.	3187.66	1.000	501.1	1038.1	10
299	7.475	.025	3	0	3102.	0.	3101.58	1.000	501.6	1038.1	10
300	7.500	.025	3	0	3016.	0.	3015.84	1.000	502.1	1038.1	10
301	7.525	.025	3	0	2930.	0.	2929.99	1.000	502.7	1038.0	10

I	T	DTH	KG	KC	QTOT	QTS	QB	SUB	BT	HY	
302	7.550	.025	3	0	2844.	0.	2844.41	1.000	503.1	1038.0	10
303	7.575	.025	3	0	2759.	0.	2758.82	1.000	503.6	1038.0	10
304	7.600	.025	3	0	2673.	0.	2673.25	1.000	504.0	1037.9	10
305	7.625	.025	3	0	2588.	0.	2587.85	1.000	504.5	1037.9	10
306	7.650	.025	3	0	2503.	0.	2502.87	1.000	504.9	1037.9	10
307	7.675	.025	3	0	2418.	0.	2417.73	1.000	505.3	1037.8	10
308	7.700	.025	3	0	2333.	0.	2333.10	1.000	505.7	1037.8	10
309	7.725	.025	3	0	2249.	0.	2248.70	1.000	506.1	1037.8	10
310	7.750	.025	3	0	2164.	0.	2164.31	1.000	506.5	1037.7	10
311	7.775	.025	3	0	2080.	0.	2080.25	1.000	506.9	1037.7	10

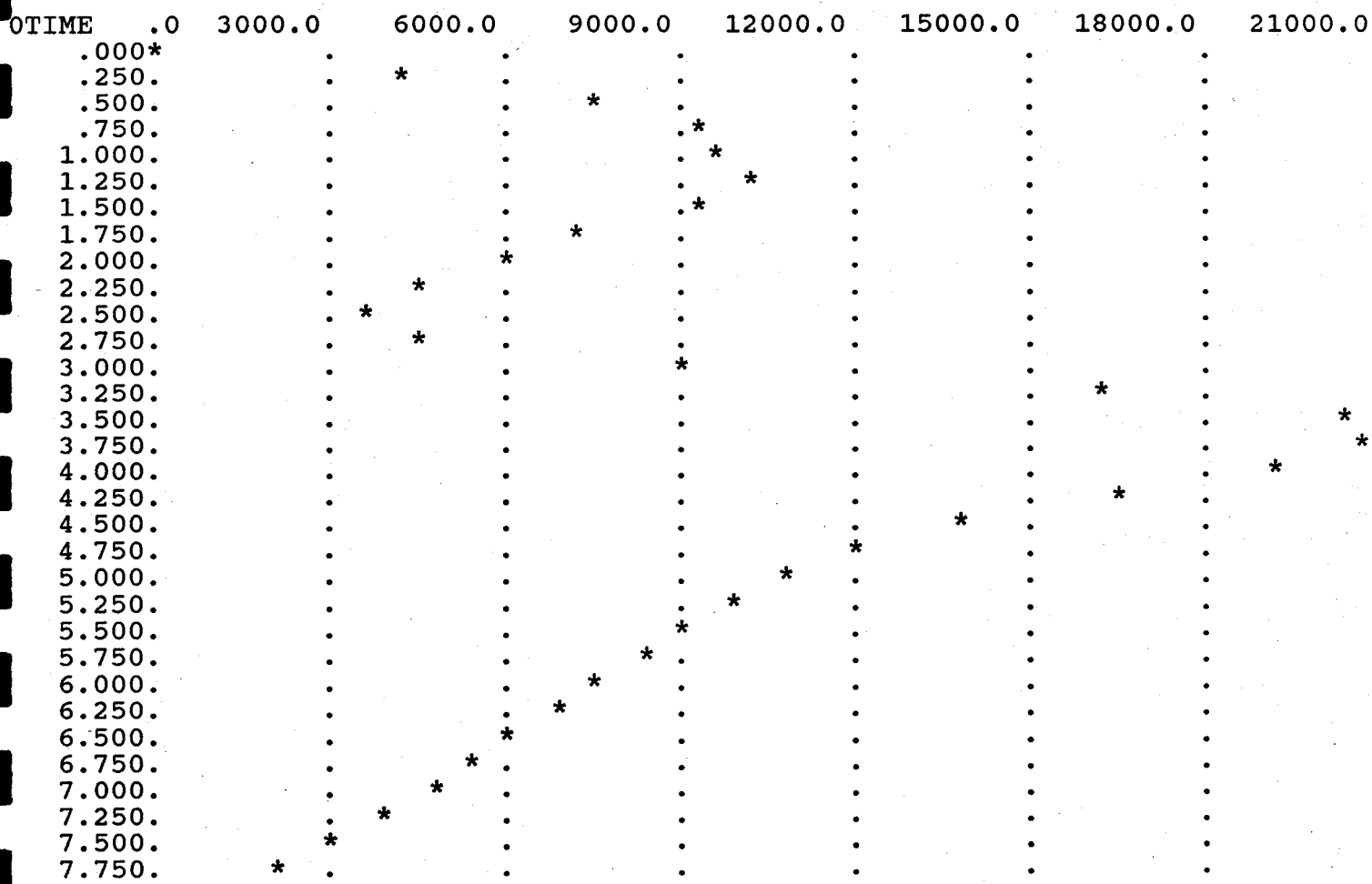
KTT= 0 I= 311 T= 7.78

OUTPUT SUMMARY

QBP MAX OUTFLOW(CFS) THRU BREACH 20963.

TP	TIME(HR) AT WHICH PEAK OUTFLOW OCCURS	3.68
QP	MAX TOTAL OUTFLOW(CFS) OCCURRING AT TIME TP	20963.
TRS	DURATION(HR) OF RISING LIMB OF HYDROGRAPH	3.65
TB	TIME(HR) AT WHICH SIGN. RISE IN OUTFLOW STARTS	.00
BRD	FINAL DEPTH(FT) OF BREACH	19.00
BRW	FINAL TOP WIDTH(FT) OF BREACH AT PEAK BREACH FLOW	243.95
HU	ELEV(FT) OF TOP OF DAM	1055.40
HY	FINAL ELEV(FT) OF RESERVOIR WATER SURFACE	1037.70
HC	FINAL ELEV(FT) OF BOTTOM OF BREACH	1036.400
AGL	ACUTE ANGLE THAT BREACH SIDE MAKES WITH VERTICAL AT QBP	45.000
QO	OUTFLOW (CFS) AT T=0.0	325.3293
Z	SIDE SLOPE OF BREACH (FT/FT) AT PEAK BREACH FLOW	1.00
TFH	TIME OF FAILURE (HR) WHICH IS LINEAR EQUIVALENT OF TRS OBTAINED BY USING SIMPLIFIED DAM-BREAK DISCHARGE EQUATION	1.66
TFHI	TIME OF FAILURE (HR) WHICH IS LINEAR EQUIVALENT OF TRS OBTAINED BY INTEGRATING QB VS TIME FROM T=0 TO T=TP	1.74
BO	BOTTOM WIDTH (FT) OF BREACH AT PEAK BREACH FLOW	205.95

1



APPENDIX B

Rating curves for Interstate Highway 10 (I-10) and Mannings n Determination

ANALYSIS OF INTERSTATE HWY. 10
AS DAM

Assumptions:

1. Embankment is well compacted with top surface and will not fail.

2. Flows cross the I-10 corridor only through Citrus Road underpass, Cotton Lane underpass, or by overtopping of roadway. Small culverts under freeway considered to be blocked or non-existent.

3. Low areas (below elevation 1013.25) are assumed to be already ponded to elevation 1013.25 by the start of the event.

4. Weir length and depth for roadway overtopping taken from as-built plans obtained from ADOT. Weir length was estimated by taking top width and dividing by 2 to obtain an average (thus assuming a bottom width of zero). The full depth was used in the weir equation.

5. Flow through underpasses calculated by use of mannings equation. See calculator program in calcs. for program used to calculate flow for trapezoidal channel.

6. Embankment modeled as spillway with crest elevation of 1013.25. Spillway rating curve is the sum of the flows from the two underpasses and the overtopping of the roadway at each depth (d). Depth determined by water surface elevation above Cotton Lane "invert".

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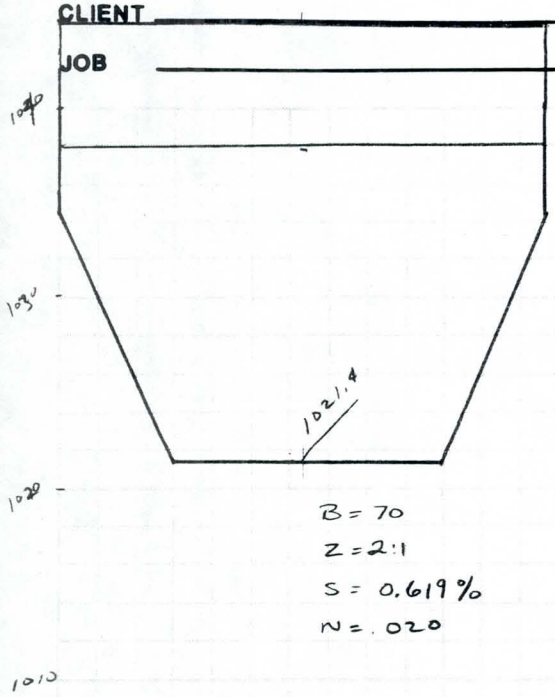
SHEET _____ OF _____
BY Han DATE 8/90
CHECK _____ DATE _____

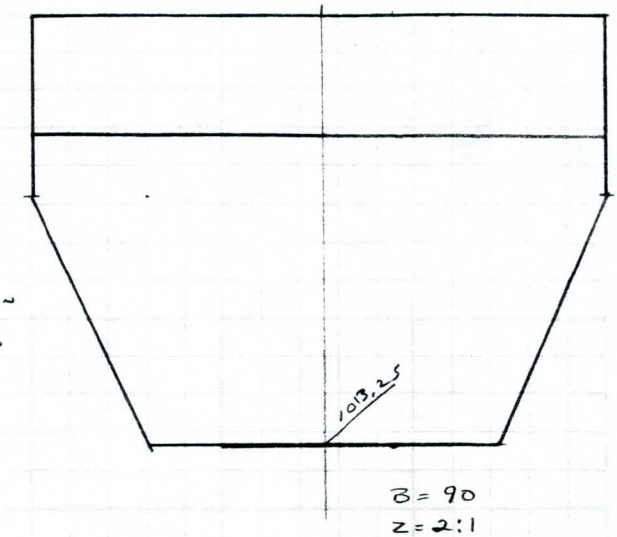
CLIENT MCFCD
JOB WT3 Freeway Analysis
JOB NO. _____

mile 5.3



B = 70
Z = 2:1
S = 0.619%
N = .020

Low point on Road Between Structures 1020



B = 90
Z = 2:1
S = 0.2800%
N = .020

Citrus Road — Cotton Lane

Elev.	Cotton Lane d	Cotton Lane Flow	Citrus Road d	Citrus Road Flow	Wier L	Wier d	Wier Flow	Total
1013.25	0	0	0	0	0	0	0	0
1020	6.75	8,885	0	0	0	0	0	8885
1021.5	8.25	12,557	.1	9	400	1.5	2700	15,266
1024	10.75	19,919	2.6	2,046	1000	4	24,000	45,965
1026	12.75	26,923	4.6	5,389	1220	6	53,790	86,103
1028	14.75	34,928	6.6	10,029	1375	8	93,338	138,295

1) Wier Length and Depth from As Built ADOT Plans
Wier Length is Estimated By Taking Top Width and Deviding By 2 — full Depth used

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CLIENT _____
JOB _____ JOB NO. _____

$B = 90$ ✓
$n = .02$ ✓
$S = .0028$ ✓
$z = 2$ ✓
$d = 6.75$ ✓

$A = (6.75^2)2 + 90(6.75) = 698.63$
698.625

$P = 2\sqrt{6.75^2 + (2 \times 6.75)^2} + 90$
$= 30.187 + 90$
$= 120.187$ 120.187

$R = A/P = 5.813$ 5.813

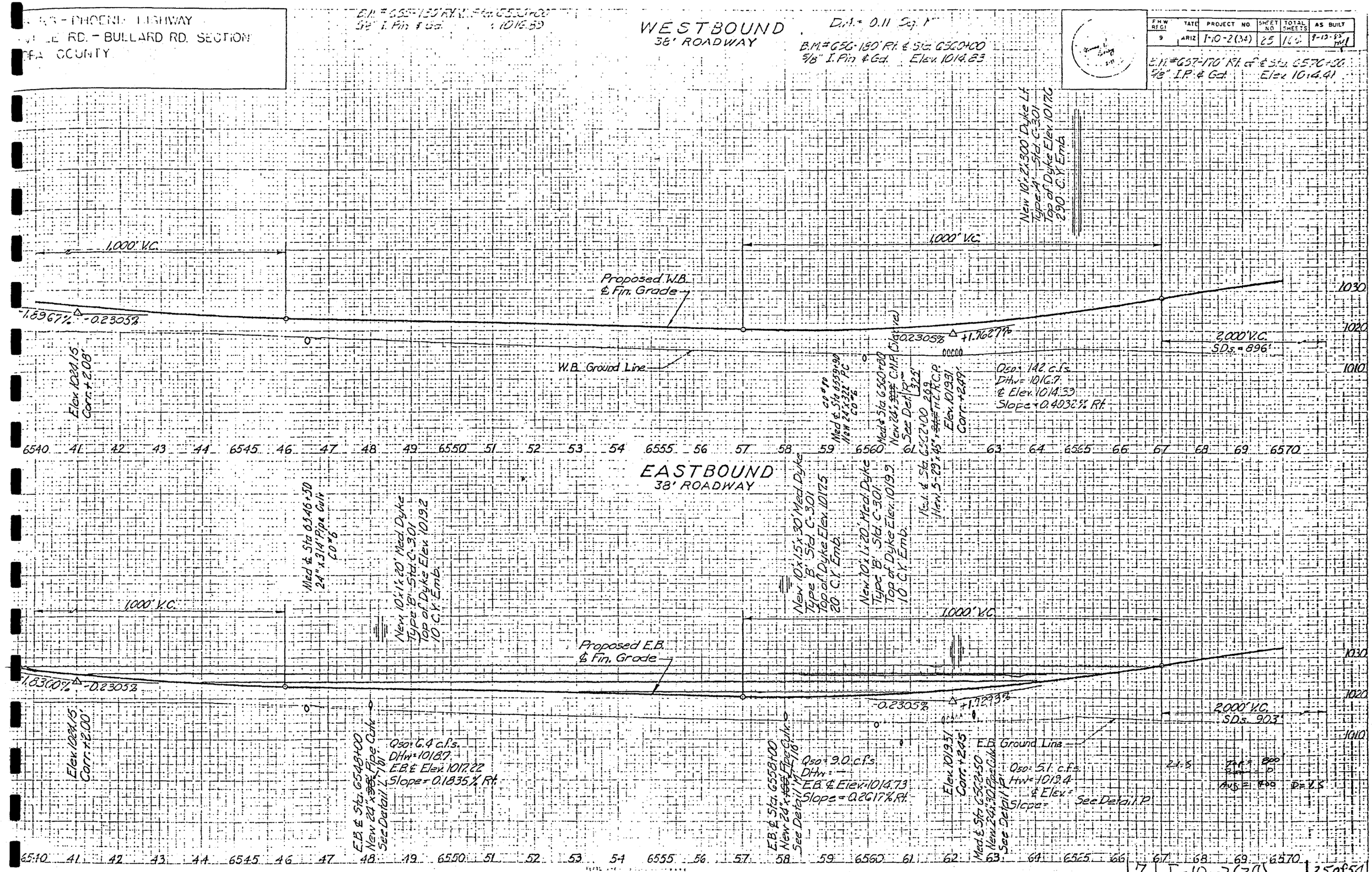
$V = \frac{1.486}{.020} R^{2/3} S^{1/2} \Rightarrow 12.718$ 12.718

$Q = AV \Rightarrow 8,885.25$ 8885.012

Program checks

...S - PHOENIX HIGHWAY
...LE RD. - BULLARD RD. SECTION
...A COUNTY

F.H.W. REGI	STATE	PROJECT NO	SHEET NO	TOTAL SHEETS	AS BUILT
9	ARIZ	I-10-2(34)	25	100	9-13-65



APPENDIX C

Summaries of DAMBRK Modeling Results

ACK ENGINEERS, INC.
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SHEET _____ OF _____
BY HEM DATE 9-26-90
CHECK SEK DATE 9-30-90
CLIENT FCD MARICOPA COUNTY
JOB WT3
JOB NO. 310.41

SUMMARY OF RUNS - WHITE TANKS FRS NO. 3

File Name	Failure Elev.	Time Int. Br Out	Max Outflow	Time Max Elev.	Max Res Elev.
WT3B1S1.DAT	1214.7	NONE	22,734	5.00	1213.92 (1)
WT3B1S2.DAT	1213.5	4.50	74,301	4.80	1213.80 (2)
WT3B1S3.DAT	1209.0	3.70	76,292	4.20	1212.38 (3)
WT3B1S4.DAT	1204.0	3.30	71,949	4.00	1210.79
WT3B2S1.DAT	1214.7	NONE	22,688	5.10	1213.91
WT3B2S2.DAT	1213.5	4.60	95,335	4.80	1213.81
WT3B2S3.DAT	1209.0	3.70	97,378	4.20	1212.14
WT3B2S4.DAT	1204.0	3.30	93,790	3.90	1210.22
WT3B3S1.DAT	1214.7	NONE	22,688	5.10	1213.91
WT3B3S2.DAT	1213.5	4.56	72,518	4.80	1213.81
WT3B3S3.DAT	1209.0	3.92	74,627	4.72	1212.27
WT3B3S4.DAT	1204.0	3.35	74066	4.00	1210.69

(1) Spillway Flow only

(2) Max outflow occurs when Breach Reaches full development at Time 5.5 Hours ⇒ only 953 cfs from Spillway

(3) Max outflow occurs when Breach Reaches full development at Time 4.70 Hours ⇒ 1630 cfs from Spillway

Peak inflow Reached at 3.25 Hours
Reservoir Level = 1204 +/- @ 3.25 Hours
Reservoir level = 1191.5 @ 2.25 Hours (3.25 - 1)

White Tanks FRS #3
Dam Break Analysis

PARAMETER	BREACH LOCATION #1	BREACH LOCATION #2	BREACH LOCATION #3
FILE NAME	WT3B1S3A.DAT	WT3B2S3.DAT	WT3B3S3.DAT
ELEV.- WATER AT START OF FAILURE	1209.00	1209.00	1209.00
ELEV.- INITIAL WATER SURFACE	1192.00	1192.00	1192.00
PEAK WATER SURFACE	1212.38	1212.14	1212.27
ELEV. TOP OF DAM	1214.70	1214.70	1214.70
ELEV - BOTTOM OF BREACH	1190.50	1185.10	1190.00
BREACH BOTTOM WIDTH	275.00	275.00	275.00
TIME OF INITIAL BREACH FORMATION (HOURS)	3.70	3.70	3.68
MAXIMUM OUTFLOW (CFS)	76,292	97,378	73,977
TIME OF MAX. OUTFLOW (HOURS)	4.20	4.20	4.24

PARAMETER	BREACH LOCATION #1	BREACH LOCATION #2	BREACH LOCATION #3
PERRYVILLE PRISON	MILE 4.25		
MAXIMUM FLOW (CFS)	68,650	85,632	67,861
MAXIMUM DEPTH (FEET)	3.76	4.00	3.71
TIME MAX. DEPTH (HOURS)	5.50	5.50	5.52
TIME FROM INITIAL BREACH (HOURS)	1.80	1.80	1.84
MAXIMUM VELOCITY (FPS)	4.74	5.17	4.91
INTERSTATE HWY. 10	MILE 5.45		
MAXIMUM FLOW (CFS)	45,217	54,716	47,757
MAXIMUM DEPTH (FEET)	10.65	11.16	10.81
TIME MAX. DEPTH (HOURS)	6.40	6.22	6.40
TIME FROM INITIAL BREACH (HOURS)	2.70	2.52	2.72
MAXIMUM VELOCITY (FPS)	8.41	8.25	12.39
ROOSEVELT IRRIGATION CANAL	MILE 5.75		
MAXIMUM FLOW (CFS)	45,217	54,167	47,757
MAXIMUM DEPTH (FEET)	3.64	3.98	3.74
TIME MAX. DEPTH (HOURS)	6.40	6.30	6.40
TIME FROM INITIAL BREACH (HOURS)	2.70	2.60	2.72
MAXIMUM VELOCITY (FPS)	5.65	6.04	5.84
SOUTHERN PACIFIC RAILROAD	MILE 9.25		
MAXIMUM FLOW (CFS)	45,303	52,971	46,306
MAXIMUM DEPTH (FEET)	3.91	4.17	3.98
TIME MAX. DEPTH (HOURS)	7.31	7.20	7.36
TIME FROM INITIAL BREACH (HOURS)	3.61	3.50	3.68
MAXIMUM VELOCITY (FPS)	3.54	3.77	3.63
GILA RIVER	MILE 11.25		
MAXIMUM FLOW (CFS)	37,353	42,100	39,935
MAXIMUM DEPTH (FEET)	4.37	4.59	4.54
TIME MAX. DEPTH (HOURS)	8.40	8.20	8.40
TIME FROM INITIAL BREACH (HOURS)	4.70	4.50	4.72
MAXIMUM VELOCITY (FPS)	3.69	3.81	3.76

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SHEET _____ OF _____
BY HEM DATE 10-2-90
CHECK _____ DATE _____

CLIENT FCD MARICOPA COUNTY
JOB WT4 JOB NO. 310.41

Summary of Runs - White Tanks FRS No. 4.

File Name	Failure Elev.	Time Int. Br. Ot.	Max Outflow	Time Max Elev	Max Res. Elev.
WT4B1S1.DAT	1055.4	—	9,565	5.00	1053.14
WT4B1S2.DAT	1053.0	4.70	58,513	4.70	1053.04
WT4B1S3.DAT	1048.5	3.30	45,622	3.40	1050.37
WT4B1S4.DAT	1040.5	2.90	21,536	3.20	1044.84
WT4B2S1.DAT	1054.9	—	9,774	4.95	1053.21
WT4B2S2.DAT	1053.0	3.85	37,263	3.85	1053.04
WT4B2S3.DAT	1048.5	3.20	29,805	3.35	1050.83
WT4B3S1.DAT	1055.3	—	9868	4.94	1053.37
WT4B3S2.DAT	1053.0	3.74	38,197	3.80	1053.25
WT4B3S3.DAT	1048.5	3.18	27,925	3.30	1050.74

Senario 4 Elevation 1040.5 is Below Existing ground For Breach Locations No.s 2 & 3 - Not Run.

Ground Elevation used for Bottom of Breach at Breach Location #2 is at Jackrabbit Road and Not at Base of Dam. Channel Cutting as Part of Breach Formation Assumed. This was Done to Allow a Lower Starting Water Surface Elevation Behind Reservoir. If Existing Ground was used at Base of Dam (1049.0 ±) Starting Water Surface would Have to Be at or near Spillway Elevation. District desired initial starting water surface elev. is Empty Reservoir. Totally Empty Reservoir not possible to obtain. Starting WSEL must Be Above Breach Elevation.

White Tanks FRS #4
Dam Break Analysis

PARAMETER	BREACH LOCATION #1	BREACH LOCATION #2	BREACH LOCATION #3
FILE NAME	WT4B1S2.DAT	WT4B2S2.DAT	WT4B3S2.DAT
ELEV.– WATER AT START OF FAILURE HF	1053.00	1053.00	1053.00
ELEV.– INITIAL WATER SURFACE (YO)	1040.00	1042.50	1042.00
PEAK WATER SURFACE	1053.04	1053.04	1053.25
ELEV. TOP OF DAM HD	1055.40	1054.90	1055.30
ELEV – BOTTOM OF BREACH * YBMIN	1036.40	1041.50	1041.30
BREACH BOTTOM WIDTH BB	275.00	275.00	275.00
TIME OF INITIAL BREACH FORMATION (HOURS)	4.65	3.80	3.69
MAXIMUM OUTFLOW (CFS)	58,513	37,263	38,197
TIME OF MAX. OUTFLOW (HOURS)	4.90	4.05	3.96

* BREACH BOTTOM ELEVATION FOR LOCATION #2 WAS ESTABLISHED BASED ON ELEVATION AT JACKRABBIT ROAD. LOCAL SCOUR WAS ASSUMED TO LOWER BREACH BOTTOM ELEVATION.

PARAMETER	BREACH LOCATION #1	BREACH LOCATION #2	BREACH LOCATION #3
ROOSEVELT IRRIGATION CANAL	MILE 0.80	MILE 1.00	MILE 1.00
MAXIMUM FLOW (CFS)	49,081	30,845	32,248
MAXIMUM DEPTH (FEET)	1.78	1.28	1.32
TIME MAX. DEPTH (HOURS)	5.15	4.35	4.24
TIME FROM INITIAL BREACH (HOURS)	0.50	0.55	0.55
MAXIMUM VELOCITY (FPS)	4.78	4.54	4.60
SOUTHERN PACIFIC RAILROAD	MILE 3.62		
MAXIMUM FLOW (CFS)	36,105	24,580	24,325
MAXIMUM DEPTH (FEET)	3.63	3.16	3.16
TIME MAX. DEPTH (HOURS)	6.10	5.40	5.28
TIME FROM INITIAL BREACH (HOURS)	1.45	1.60	1.59
MAXIMUM VELOCITY (FPS)	3.63	3.33	3.42
TOWN OF LIBERTY	MILE 5.3		
MAXIMUM FLOW (CFS)	24,008	16,554	16,467
MAXIMUM DEPTH (FEET)	2.82	2.36	2.36
TIME MAX. DEPTH (HOURS)	7.05	6.60	6.52
TIME FROM INITIAL BREACH (HOURS)	2.40	2.80	2.83
MAXIMUM VELOCITY (FPS)	2.48	2.20	2.22
GILA RIVER	MILE 5.5		
MAXIMUM FLOW (CFS)	23,124	16,033	15,944
MAXIMUM DEPTH (FEET)	1.53	1.11	1.17
TIME MAX. DEPTH (HOURS)	7.20	6.80	6.70
TIME FROM INITIAL BREACH (HOURS)	2.55	3.00	3.01
MAXIMUM VELOCITY (FPS)	2.57	2.27	2.20

APPENDIX D

DAMBRK Output for White Tanks FRS No. 3

ACK ENGINEERS, INC.
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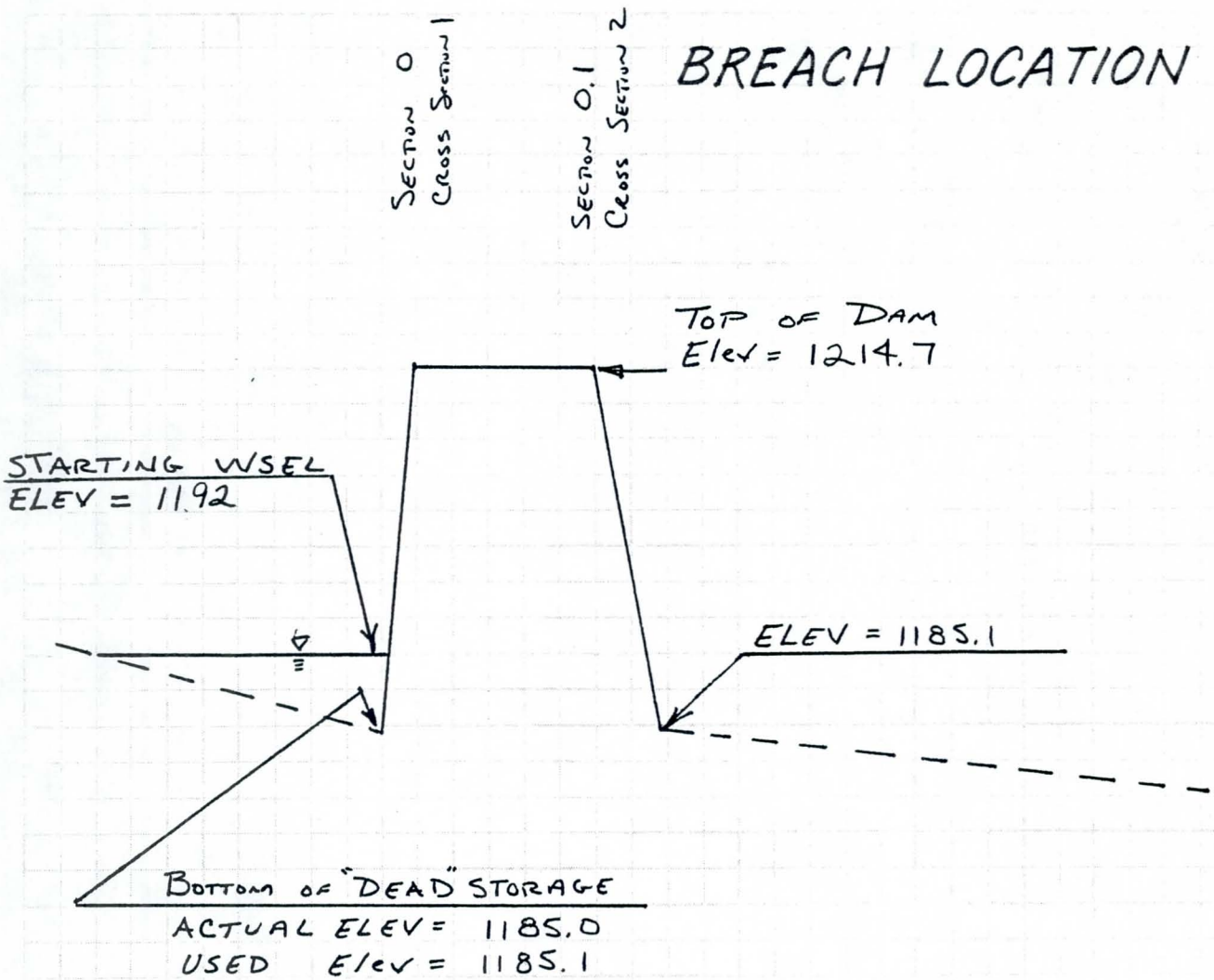
SHEET _____ OF _____
BY HEM DATE _____
CHECK _____ DATE _____

CLIENT FCDMC
JOB WT3
JOB NO. 310.41

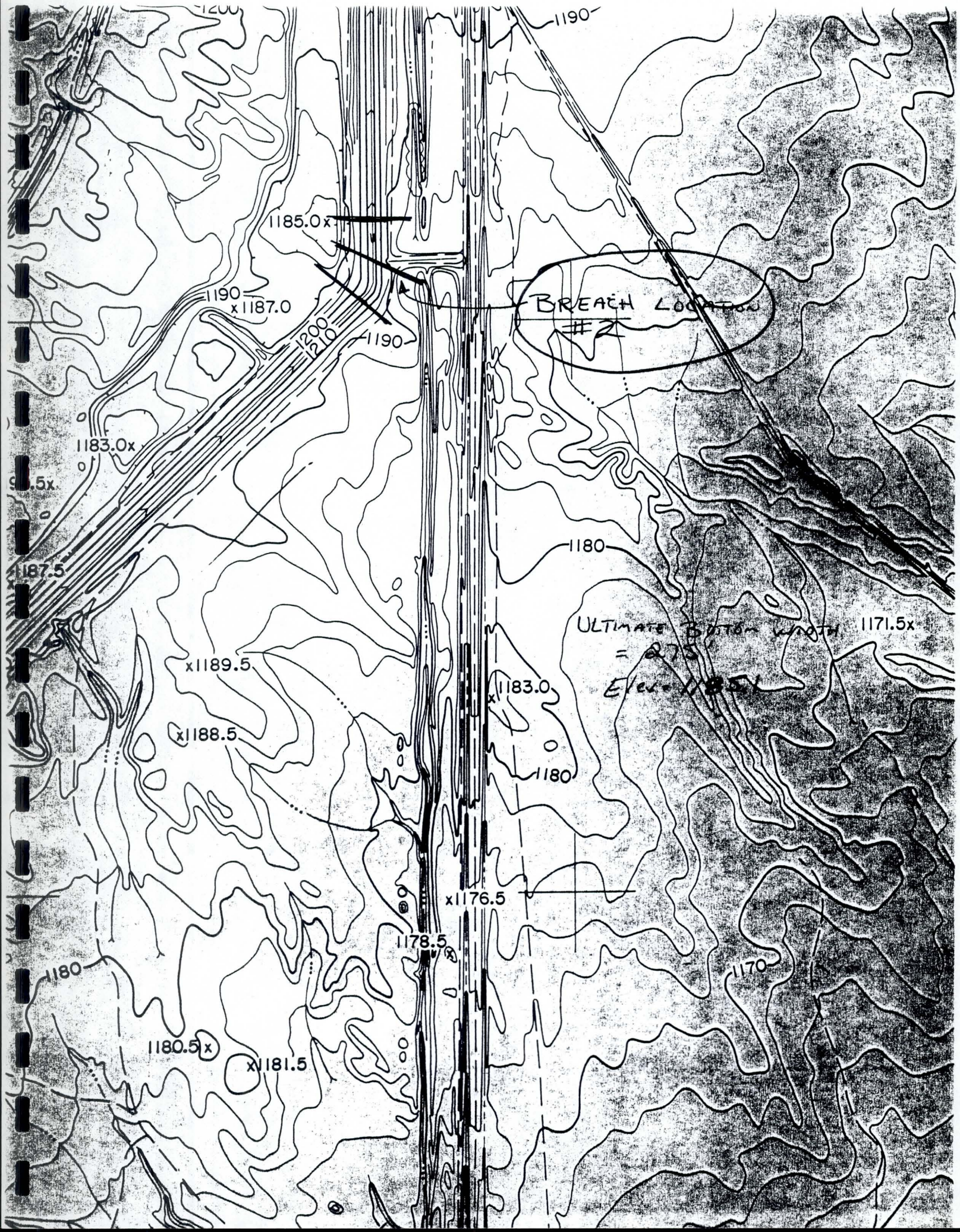
BREACH LOCATION #2



FOR BREACH LOCATION # 2

	HF*	SENARIO 1	1214.7	
	HF	SENARIO 2	1213.5	PEAK STAGE - 0.4
WORST CASE ⇒	HF	SENARIO 3	1209.0	SPILLWAY CREST
	HF	SENARIO 4	1204.0	

HF = HEIGHT OF FAILURE - ELEV. OF WATER SURFACE THAT INITIATES DAM FAILURE.


1190
1185.0x
1190
x1187.0
1200
1210
1190
BREACH LOCATION
#2
1183.0x
1187.5
1180
ULTIMATE BOTTOM WIDTH
= 275'
ELEV = 1185
1171.5x
x1189.5
x1183.0
x1188.5
1180
x1176.5
1178.5
1180
1170
1180.5
x1181.5

ANALYSIS OF THE DOWNSTREAM FLOOD HYDROGRAPH

PRODUCED BY THE DAM BREAK OF

WHITE TANKS FRS #3

ON

BREACH 2-SENARIO 3

ANALYSIS BY

AGK ENGINEERS, INC.
FILE NAME => WT3B2S3R.DAT REV 12-90
ELEV. OF FAILURE = 1209.0, RES. EMPTY

BASED ON PROCEDURE DEVELOPED BY
DANNY L. FREAD, PH.D., SR. RESEARCH HYDROLOGIST

QUALITY CONTROL TESTING AND OTHER SUPPORT BY
JANICE M. LEWIS, RESEARCH HYDROLOGIST

HYDROLOGIC RESEARCH LABORATORY
W23, OFFICE OF HYDROLOGY
NOAA, NATIONAL WEATHER SERVICE
SILVER SPRING, MARYLAND 20910

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*** ***

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*** SUMMARY OF INPUT DATA ***
***                      ***
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INPUT CONTROL PARAMETERS FOR WHITE TANKS FRS #3

PARAMETER	VARIABLE	VALUE
NUMBER OF DYNAMIC ROUTING REACHES	KKN	1
TYPE OF RESERVOIR ROUTING	KUI	1
MULTIPLE DAM INDICATOR	MULDAM	2
PRINTING INSTRUCTIONS FOR INPUT SUMMARY	KDMP	3
NO. OF RESERVOIR INFLOW HYDROGRAPH POINTS	ITEH	96
INTERVAL OF CROSS-SECTION INFO PRINTED OUT WHEN JNK=9	NPRT	0
FLOOD-PLAIN MODEL PARAMETER	KFLP	0
METRIC INPUT/OUTPUT OPTION	METRIC	0

IDAM= 1

IDAM= 12

WHITE TANKS FRS #3 RESERVOIR

TABLE OF ELEVATION VS VOLUME

VOLUME (ACRE-FEET) SA(K)	ELEVATION (FT) HSA(K)
6068.0	1216.00
5230.0	1214.00
4111.0	1212.00
3432.0	1210.00
2096.0	1206.00
1234.0	1202.00
370.0	1196.00
.0	1185.10

SURFACE AREA TABLE BELOW ENTRY NO. 1 IS NOT EXACTLY COMPATIBLE WITH THE VOLUME TABLE. THE VOLUME TABLE SHOULD BE CHECKED FOR POSSIBLE ERRORS. IF POSSIBLE USE A SURFACE AREA TABLE RATHER THAN A VOLUME TABLE. IF THE SURFACE AREA TABLE IS NOT AVAILABLE, THEN THE SURFACE AREA AT THE TOP OF THE DAM SHOULD BE READ IN FOR THE PARAMETER "VOL".

WHITE TANKS FRS #3 RESERVOIR

TABLE OF ELEVATION VS SURFACE AREA

SURFACE AREA (ACRES) SA(K)	ELEVATION (FT) HSA(K)
419.0	1216.00
377.1	1214.00
339.4	1212.00
305.5	1210.00
274.9	1206.00
156.1	1202.00
131.9	1196.00
66.0	1185.10

DAM NUMBER 1

WHITE TANKS FRS #3 RESERVOIR AND BREACH PARAMETERS

PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	1192.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	1185.10
WIDTH OF BASE OF BREACH	FEET	BB	275.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	1.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	1209.00
ELEVATION OF TOP OF DAM	FEET	HD	1214.70
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	1209.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.60
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	21000.00
DISCHARGE THRU TURBINES	CFS	QT	500.00

DAM NUMBER 2

WHITE TANKS FRS #3 RESERVOIR AND BREACH PARAMETERS

PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	1013.30
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	1010.00
WIDTH OF BASE OF BREACH	FEET	BB	100.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	1.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	1030.00
ELEVATION OF TOP OF DAM	FEET	HD	1030.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	1013.30
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.60
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	3000.00
DISCHARGE THRU TURBINES	CFS	QT	500.00

QSPILL(K, 1) CFS	HEAD(K, 1) FEET
0.	.0
6257.	2.0
11495.	3.0
22700.	5.0
28500.	6.0
0.	.0
0.	.0
0.	.0

QSPILL(K, 2) CFS	HEAD(K, 2) FEET
0.	.0
8885.	6.8
15270.	8.3
45965.	10.8
86100.	12.8
0.	.0
0.	.0
0.	.0

DHF(INTERVAL BETWEEN INPUT HYDROGRAPH ORDINATES) = .25 HRS.

TEH(TIME AT WHICH COMPUTATIONS TERMINATE)= 11.5000 HRS.

BREX(BREACH EXPONENT) = 1.000

MUD(MUD FLOW OPTION) = 0

IWF(TYPE OF WAVE FRONT TRACKING) = 0

KPRES(WETTED PERIMETER OPTION) = 0

KSL(LANDSLIDE PARAMETER) = 0

INFLOW HYDROGRAPH TO WHITE TANKS FRS #3
****

.00	.00	.00	.00	2.00	22.00	122.00	284.00
750.00	2089.00	11470.00	23852.00	29265.00	41554.00	40355.00	37327.00
34095.00	31173.00	28641.00	25782.00	23139.00	20907.00	18855.00	16987.00
15278.00	13983.00	12493.00	11005.00	9274.00	7478.00	6053.00	4862.00
3878.00	3092.00	2380.00	1875.00	1504.00	1216.00	946.00	701.00
531.00	407.00	313.00	247.00	196.00	152.00	118.00	92.00
71.00	56.00	44.00	34.00	27.00	22.00	18.00	14.00
11.00	9.00	8.00	6.00	5.00	5.00	4.00	4.00
3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00
2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	.00	.00	.00	.00

TIME OF INFLOW HYDROGRAPH ORDINATES

.0000	.2500	.5000	.7500	1.0000	1.2500	1.5000	1.7500
2.0000	2.2500	2.5000	2.7500	3.0000	3.2500	3.5000	3.7500
4.0000	4.2500	4.5000	4.7500	5.0000	5.2500	5.5000	5.7500
6.0000	6.2500	6.5000	6.7500	7.0000	7.2500	7.5000	7.7500
8.0000	8.2500	8.5000	8.7500	9.0000	9.2500	9.5000	9.7500
10.0000	10.2500	10.5000	10.7500	11.0000	11.2500	11.5000	11.7500
12.0000	12.2500	12.5000	12.7500	13.0000	13.2500	13.5000	13.7500
14.0000	14.2500	14.5000	14.7500	15.0000	15.2500	15.5000	15.7500
16.0000	16.2500	16.5000	16.7500	17.0000	17.2500	17.5000	17.7500
18.0000	18.2500	18.5000	18.7500	19.0000	19.2500	19.5000	19.7500
20.0000	20.2500	20.5000	20.7500	21.0000	21.2500	21.5000	21.7500
22.0000	22.2500	22.5000	22.7500	23.0000	23.2500	23.5000	23.7500

CROSS-SECTIONAL PARAMETERS FOR BREACH 2-SENARIO 3
BELOW WHITE TANKS FRS #3

PARAMETER	VARIABLE	VALUE
**********	******	*******
NUMBER OF CROSS-SECTIONS	NS	19
MAXIMUM NUMBER OF TOP WIDTHS	NCS	6
NUMBER OF CROSS-SECTIONAL HYDROGRAPHS TO PLOT	NTT	0
TYPE OF OUTPUT OTHER THAN HYDROGRAPH PLOTS	JNK	9

CROSS-SECTIONAL SMOOTHING PARAMETER	KSA	0
DOWNSTREAM SUPERCRITICAL OR NOT	KSUPC	4
NO. OF LATERAL INFLOW HYDROGRAPHS	LQ	0
NO. OF POINTS IN GATE CONTROL CURVE	KCG	0

CROSS-SECTIONAL VARIABLES FOR BREACH 2-SENARIO 3
BELOW WHITE TANKS FRS #3

PARAMETER	UNITS	VARIABLE
LOCATION OF CROSS-SECTION	MILE	XS(I)
ELEVATION(MSL) OF FLOODING AT CROSS-SECTION	FEET	FSTG(I)
ELEV CORRESPONDING TO EACH TOP WIDTH	FEET	HS(K,I)
TOP WIDTH CORRESPONDING TO EACH ELEV (ACTIVE FLOW PORTION)	FEET	BS(K,I)
TOP WIDTH CORRESPONDING TO EACH ELEV (OFF-CHANNEL PORTION)	FEET	BSS(K,I)
NUMBER OF CROSS-SECTION		I
NUMBER OF ELEVATION LEVEL		K

1

CROSS-SECTION NUMBER 1

XS(I) = .000 FSTG(I) = .00

HS ...	1185.1	1186.0	1190.0	1192.0	1195.0	1214.0
BS ...	210.0	350.0	2500.0	2500.0	2500.0	2500.0
BSS ...	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 2

XS(I) = .010 FSTG(I) = 1187.00

HS ...	1185.0	1186.0	1190.0	1192.0	1195.0	1214.0
BS ...	.0	350.0	2500.0	2500.0	2500.0	2500.0
BSS ...	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 3

XS(I) = .200 FSTG(I) = 1179.00

HS ...	1177.0	1178.0	1180.0	1182.0	1184.0	1190.0
BS ...	.0	350.0	1600.0	2500.0	2500.0	2500.0
BSS ...	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 4
****

XS(I) = .620 FSTG(I) = 1165.00

HS ...	1162.0	1164.0	1166.0	1168.0	1170.0	1175.0
BS ...	280.0	640.0	1850.0	3400.0	3800.0	5400.0
BSS ...	20.0	60.0	200.0	300.0	400.0	600.0

CROSS-SECTION NUMBER 5
****

XS(I) = 1.330 FSTG(I) = 1146.00

HS ...	1145.0	1146.0	1147.0	1148.0	1149.0	1155.0
BS ...	.0	2250.0	4250.0	5850.0	6500.0	6500.0
BSS ...	.0	250.0	450.0	600.0	700.0	700.0

CROSS-SECTION NUMBER 6
****

XS(I) = 1.900 FSTG(I) = 1126.00

HS ...	1125.0	1126.0	1126.1	1127.0	1129.0	1135.0
BS ...	.0	760.0	1500.0	3400.0	8520.0	8520.0
BSS ...	.0	80.0	150.0	340.0	950.0	950.0

CROSS-SECTION NUMBER 7
****

XS(I) = 2.770 FSTG(I) = 1095.50

HS ...	1095.0	1095.5	1096.0	1096.5	1098.0	1099.0
BS ...	.0	2700.0	4700.0	5700.0	8770.0	9000.0
BSS ...	.0	300.0	500.0	600.0	900.0	1000.0

CROSS-SECTION NUMBER 8
****

XS(I) = 3.200 FSTG(I) = 1078.00

HS ...	1076.0	1078.0	1080.0	1081.0	1082.0	1083.0
BS ...	.0	2500.0	5000.0	5700.0	6400.0	7100.0
BSS ...	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 9
****

XS(I) = 3.730 FSTG(I) = 1061.00

HS ...	1059.0	1060.0	1060.1	1063.0	1063.5	1065.0
BS ...	.0	810.0	2700.0	4820.0	6200.0	9000.0
BSS ...	.0	90.0	250.0	500.0	600.0	1000.0

CROSS-SECTION NUMBER 10
****

XS(I) = 4.250 FSTG(I) = 1046.00

HS ...	1044.0	1045.0	1046.0	1047.0	1048.0	1050.0
BS ...	.0	1200.0	3200.0	8100.0	8100.0	9000.0
BSS ...	.0	100.0	300.0	900.0	900.0	1000.0

CROSS-SECTION NUMBER 11
****

XS(I) = 4.770 FSTG(I) = 1030.00

HS ...	1028.0	1029.0	1030.0	1031.0	1032.5	1040.0
BS ...	.0	720.0	2400.0	4800.0	7200.0	7200.0
BSS ...	.0	80.0	300.0	500.0	700.0	700.0

CROSS-SECTION NUMBER 12
****

XS(I) = 5.450 FSTG(I) = 1014.30

HS ...	1010.0	1013.3	1015.0	1020.0	1024.0	1026.0
BS ...	.0	100.0	100.0	1000.0	1200.0	1400.0
BSS ...	.0	2600.0	3400.0	5550.0	7350.0	7600.0

CROSS-SECTION NUMBER 13
****

XS(I) = 5.500 FSTG(I) = 1014.00

HS ...	1010.0	1013.0	1015.0	1020.0	1024.0	1026.0
BS ...	.0	2700.0	3500.0	6550.0	8550.0	9000.0
BSS ...	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 14
****

XS(I) = 6.250 FSTG(I) = 988.00

HS ...	986.0	989.0	990.0	995.0	1000.0	1001.0
BS ...	.0	1800.0	3000.0	7100.0	7800.0	7800.0
BSS ...	.0	200.0	700.0	800.0	800.0	800.0

CROSS-SECTION NUMBER 15
****

XS(I) = 7.250 FSTG(I) = 964.00

HS ...	962.0	963.0	965.0	970.0	975.0	976.0
BS ...	.0	2500.0	3000.0	4500.0	11000.0	11000.0
BSS ...	.0	300.0	400.0	500.0	500.0	500.0

CROSS-SECTION NUMBER 16
****

XS(I) = 8.250 FSTG(I) = 938.00

HS ...	936.0	940.0	945.0	950.0	951.0	952.0
BS ...	.0	3000.0	4500.0	6000.0	6000.0	6000.0
BSS ...	.0	300.0	500.0	600.0	600.0	600.0

CROSS-SECTION NUMBER 17
****

XS(I) = 9.250 FSTG(I) = 907.00

HS ...	905.0	910.0	911.0	912.0	913.0	914.0
BS ...	800.0	7500.0	7500.0	7500.0	7500.0	7500.0
BSS ...	100.0	600.0	600.0	600.0	600.0	600.0

CROSS-SECTION NUMBER 18
****

XS(I) = 10.250 FSTG(I) = 896.00

HS ...	894.0	895.0	896.0	897.0	898.0	899.0
BS ...	500.0	2400.0	6000.0	6000.0	6000.0	6000.0
BSS ...	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 19
****

XS(I) = 11.250 FSTG(I) = 887.00

HS ...	885.0	890.0	895.0	896.0	897.0	898.0
BS ...	800.0	4400.0	7600.0	7600.0	7600.0	7600.0
BSS ...	.0	.0	.0	.0	.0	.0

MANNING N ROUGHNESS COEFFICIENTS FOR THE GIVEN REACHES
(CM(K,I),K=1,NCS) WHERE I = REACH NUMBER
****

REACH 1 ...	.035	.035	.035	.035	.035	.035
REACH 2 ...	.035	.035	.035	.035	.035	.035
REACH 3 ...	.035	.035	.035	.035	.035	.035
REACH 4 ...	.035	.035	.035	.035	.035	.035
REACH 5 ...	.035	.035	.035	.035	.035	.035
REACH 6 ...	.035	.035	.035	.035	.035	.035
REACH 7 ...	.035	.035	.035	.035	.035	.035
REACH 8 ...	.035	.035	.035	.035	.035	.035
REACH 9 ...	.045	.045	.045	.035	.035	.035
REACH 10 ...	.060	.060	.060	.035	.035	.035

why 6?

REACH 11 ...	.035	.035	.035	.035	.035	.035
REACH 12 ...	.060	.015	.015	.035	.035	.035
REACH 13 ...	.035	.035	.035	.035	.035	.035
REACH 14 ...	.035	.035	.035	.035	.035	.035
REACH 15 ...	.035	.035	.035	.035	.035	.035
REACH 16 ...	.035	.035	.035	.035	.035	.035
REACH 17 ...	.035	.035	.035	.035	.035	.035
REACH 18 ...	.035	.035	.035	.035	.035	.035

CROSS-SECTIONAL VARIABLES FOR BREACH 2-SENARIO 3
BELOW WHITE TANKS FRS #3

PARAMETER	UNITS	VARIABLE
MINIMUM COMPUTATIONAL DISTANCE USED BETWEEN CROSS-SECTIONS	MILE	DXM(I)
CONTRACTION - EXPANSION COEFFICIENTS BETWEEN CROSS-SECTIONS		FKC(I)

REACH NUMBER	DXM(I)	FKC(I)
1	.010	-.700
2	.000	-.700
3	.000	-.300
4	.000	-.300
5	.000	-.100
6	.000	-.100
7	.000	-.100
8	.000	-.300
9	.000	-.500
10	.000	-1.000
11	.000	-1.000

− = CONTRACTION
+ = EXPANSION

12	.000	-1.000
13	.000	-.500
14	.000	.000
15	.000	.000
16	.000	.000
17	.200	.000
18	.000	.000

DOWNSTREAM FLOW PARAMETERS FOR BREACH 2-SENARIO 3
BELOW WHITE TANKS FRS #3

PARAMETER	UNITS	VARIABLE	VALUE
MAX DISCHARGE AT DOWNSTREAM EXTREMITY	CFS	QMAXD	.0
MAX LATERAL OUTFLOW PRODUCING LOSSES	CFS /FEET	QLL	.000
INITIAL SIZE OF TIME STEP	HOUR	DTHM	.1000
INITIAL WATER SURFACE ELEVATION DOWNSTREAM	FEET	YDN	.00
SLOPE OF CHANNEL DOWNSTREAM OF DAM	FPM	SOM	30.00
THETA WEIGHTING FACTOR		THETA	.00
CONVERGENCE CRITERION FOR STAGE	FEET	EPSY	.100
TIME AT WHICH DAM STARTS TO FAIL	HOUR	TFI	.00

AT REACH= 2 DXM WAS CHANGED TO .047 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 3 DXM WAS CHANGED TO .047 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 5 DXM WAS CHANGED TO .036 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 6 DXM WAS CHANGED TO .097 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 7 DXM WAS CHANGED TO .072 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 8 DXM WAS CHANGED TO .016 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 9 DXM WAS CHANGED TO .065 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 10 DXM WAS CHANGED TO .173 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 11 DXM WAS CHANGED TO .057 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 13 DXM WAS CHANGED TO .250 DUE TO EXP/CONTRACT CRITERIA

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AT REACH=   14  DXM WAS CHANGED TO  .333  DUE TO EXP/CONTRACT CRITERIA

AT REACH=   15  DXM WAS CHANGED TO  .125  DUE TO EXP/CONTRACT CRITERIA

AT REACH=   16  DXM WAS CHANGED TO  .200  DUE TO EXP/CONTRACT CRITERIA

AT REACH=   17  DXM SHOULD BE CHANGED TO  .037  DUE TO EXP/CONTRACT CRITERIA

AT REACH=   18  DXM WAS CHANGED TO  .063  DUE TO EXP/CONTRACT CRITERIA
I=   2  XS=     .00    QS=    93161.    YE= 1191.58    DEP=  6.58    TP=  1.00    DXM=     .00
I=   3  XS=     .19    QS=    89560.    YE= 1183.35    DEP=  6.35    TP=  1.03    DXM=     .00
I=   4  XS=     .61    QS=    82769.    YE= 1168.69    DEP=  6.69    TP=  1.11    DXM=     .00

AT REACH=    4  DXM WAS CHANGED TO  .271  DUE TO (WAVE SPEED * DT) CRITERIA
I=   5  XS=    1.32    QS=    79527.    YE= 1148.99    DEP=  3.99    TP=  1.27    DXM=     .00
I=   6  XS=    1.89    QS=    74025.    YE= 1129.02    DEP=  4.02    TP=  1.41    DXM=     .00
I=   7  XS=    2.76    QS=    69160.    YE= 1097.78    DEP=  2.78    TP=  1.64    DXM=     .00
I=   8  XS=    3.19    QS=    65929.    YE= 1080.09    DEP=  4.09    TP=  1.73    DXM=     .00
I=   9  XS=    3.72    QS=    65270.    YE= 1062.94    DEP=  3.94    TP=  1.85    DXM=     .00
I=  10  XS=    4.24    QS=    62058.    YE= 1047.66    DEP=  3.66    TP=  1.98    DXM=     .00
I=  11  XS=    4.76    QS=    56564.    YE= 1032.10    DEP=  4.10    TP=  2.11    DXM=     .00
I=  12  XS=    5.44    QS=    51464.    YE= 1022.51    DEP= 12.50    TP=  2.27    DXM=     .00
I=  13  XS=    5.49    QS=    51131.    YE= 1022.41    DEP= 12.41    TP=  2.28    DXM=  101.00
I=  14  XS=    6.24    QS=    50656.    YE=  991.09    DEP=  5.09    TP=  2.45    DXM=     .00

AT REACH=   14  DXM WAS CHANGED TO  .274  DUE TO (WAVE SPEED * DT) CRITERIA
I=  15  XS=    7.24    QS=    48620.    YE=  965.63    DEP=  3.63    TP=  2.68    DXM=     .00
I=  16  XS=    8.24    QS=    43021.    YE=  940.61    DEP=  4.61    TP=  2.88    DXM=     .00
I=  17  XS=    9.24    QS=    33930.    YE=  907.79    DEP=  2.79    TP=  3.10    DXM=     .00
I=  18  XS=   10.24    QS=    33591.    YE=  896.94    DEP=  2.94    TP=  3.39    DXM=     .20
I=  19  XS=   11.24    QS=    33255.    YE=  889.29    DEP=  4.29    TP=  3.62    DXM=     .00

COMPUTATIONS WILL USE THE FOLLOWING DXM VALUES

 101.000    .047    .047    .271    .036    .097    .072    .016    .065    .173    .057 101.000    .250    .274    .125
    .200    .200    .063

TOTAL NUMBER OF CROSS SECTIONS (ORIGINAL+INTERPOLATED) (N) =   145     (MAXIMUM ALLOWABLE =   200
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1

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*********************************
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***                           ***
***  SUMMARY OF OUTPUT DATA   ***
***                           ***
*********************************
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CROSS-SECTION NO.	MILE	BOTTOM ELEVATION FEET	REACH NO.	REACH LENGTH MILE	SLOPE FPM	MESAGE
1	.00	1185.10				
2	.01	1185.00	1	.01	10.00	
3	.20	1177.00	2	.19	42.11	
4	.62	1162.00	3	.42	35.71	
5	1.33	1145.00	4	.71	23.94	
6	1.90	1125.00	5	.57	35.09	
7	2.77	1095.00	6	.87	34.48	
8	3.20	1076.00	7	.43	44.19	
9	3.73	1059.00	8	.53	32.08	
10	4.25	1044.00	9	.52	28.85	
11	4.77	1028.00	10	.52	30.77	
12	5.45	1010.01	11	.68	26.46	
13	5.50	1010.00	12	.05	.20	
14	6.25	986.00	13	.75	32.00	
15	7.25	962.00	14	1.00	24.00	
16	8.25	936.00	15	1.00	26.00	
17	9.25	905.00	16	1.00	31.00	
18	10.25	894.00	17	1.00	11.00	
19	11.25	885.00	18	1.00	9.00	

RE-NUMBERED VALUES FOR IDAM

IDAM(1) = 1

IDAM(2) = 104

SNC(K,1)= 1.00 1.00 1.00 1.00 1.00 1.00

NUMBER OF INTERMEDIATE STATIONS NN(NS) 145

NUMBER OF TIME STEPS NNU 96

INITIAL CONDITIONS

```
 2     500.    2  104      500.        0.
I=   1   X=    .000   YN=   1185.97   DEPN=      .87   YC=   1185.63   DEPC=      .53   IFR= 0   ITN=   11   ITC=   11
I=   2   X=    .010   YN=   1186.08   DEPN=     1.08   YC=   1185.87   DEPC=      .87   IFR= 0   ITN=   11   ITC=   11
I=   3   X=    .057   YN=   1184.08   DEPN=     1.08   YC=   1183.87   DEPC=      .87   IFR= 0   ITN=   11   ITC=   11
I=   4   X=    .105   YN=   1182.08   DEPN=     1.08   YC=   1181.88   DEPC=      .88   IFR= 0   ITN=   11   ITC=   11
I=   5   X=    .153   YN=   1180.09   DEPN=     1.09   YC=   1179.87   DEPC=      .87   IFR= 0   ITN=   10   ITC=   10
I=   6   X=    .200   YN=   1178.12   DEPN=     1.12   YC=   1177.87   DEPC=      .87   IFR= 0   ITN=   10   ITC=   10
I=   7   X=    .247   YN=   1176.38   DEPN=     1.05   YC=   1176.15   DEPC=      .82   IFR= 0   ITN=   10   ITC=   10
I=   8   X=    .293   YN=   1174.66   DEPN=     1.00   YC=   1174.42   DEPC=      .76   IFR= 0   ITN=   10   ITC=   10
I=   9   X=    .340   YN=   1172.93   DEPN=      .93   YC=   1172.69   DEPC=      .69   IFR= 0   ITN=   10   ITC=   10
I=  10   X=    .387   YN=   1171.20   DEPN=      .87   YC=   1170.97   DEPC=      .64   IFR= 0   ITN=   10   ITC=   10
I=  11   X=    .433   YN=   1169.49   DEPN=      .82   YC=   1169.26   DEPC=      .59   IFR= 0   ITN=   10   ITC=   10
I=  12   X=    .480   YN=   1167.77   DEPN=      .77   YC=   1167.54   DEPC=      .54   IFR= 0   ITN=   10   ITC=   10
I=  13   X=    .527   YN=   1166.05   DEPN=      .72   YC=   1165.83   DEPC=      .50   IFR= 0   ITN=   10   ITC=   10
I=  14   X=    .573   YN=   1164.35   DEPN=      .68   YC=   1164.14   DEPC=      .48   IFR= 0   ITN=   10   ITC=   10
I=  15   X=    .620   YN=   1162.72   DEPN=      .72   YC=   1162.44   DEPC=      .44   IFR= 0   ITN=   10   ITC=   10
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I=	16	X=	.975	YN=	1154.20	DEPN=	.70	YC=	1153.97	DEPC=	.47	IFR=	0	ITN=	10	ITC=	10
I=	17	X=	1.330	YN=	1145.56	DEPN=	.56	YC=	1145.42	DEPC=	.42	IFR=	0	ITN=	9	ITC=	9
I=	18	X=	1.366	YN=	1144.31	DEPN=	.56	YC=	1144.17	DEPC=	.42	IFR=	0	ITN=	9	ITC=	9
I=	19	X=	1.401	YN=	1143.08	DEPN=	.58	YC=	1142.92	DEPC=	.42	IFR=	0	ITN=	9	ITC=	9
I=	20	X=	1.437	YN=	1141.83	DEPN=	.58	YC=	1141.69	DEPC=	.44	IFR=	0	ITN=	9	ITC=	9
I=	21	X=	1.473	YN=	1140.60	DEPN=	.60	YC=	1140.44	DEPC=	.44	IFR=	0	ITN=	9	ITC=	9
I=	22	X=	1.508	YN=	1139.35	DEPN=	.60	YC=	1139.21	DEPC=	.46	IFR=	0	ITN=	9	ITC=	9
I=	23	X=	1.544	YN=	1138.12	DEPN=	.62	YC=	1137.96	DEPC=	.46	IFR=	0	ITN=	9	ITC=	9
I=	24	X=	1.579	YN=	1136.88	DEPN=	.63	YC=	1136.73	DEPC=	.48	IFR=	0	ITN=	9	ITC=	9
I=	25	X=	1.615	YN=	1135.63	DEPN=	.63	YC=	1135.48	DEPC=	.48	IFR=	0	ITN=	9	ITC=	9
I=	26	X=	1.651	YN=	1134.40	DEPN=	.65	YC=	1134.25	DEPC=	.50	IFR=	0	ITN=	9	ITC=	9
I=	27	X=	1.686	YN=	1133.17	DEPN=	.67	YC=	1133.02	DEPC=	.52	IFR=	0	ITN=	9	ITC=	9
I=	28	X=	1.722	YN=	1131.94	DEPN=	.69	YC=	1131.79	DEPC=	.54	IFR=	0	ITN=	9	ITC=	9
I=	29	X=	1.757	YN=	1130.71	DEPN=	.71	YC=	1130.54	DEPC=	.54	IFR=	0	ITN=	9	ITC=	9
I=	30	X=	1.793	YN=	1129.48	DEPN=	.73	YC=	1129.31	DEPC=	.56	IFR=	0	ITN=	9	ITC=	9
I=	31	X=	1.829	YN=	1128.25	DEPN=	.75	YC=	1128.10	DEPC=	.60	IFR=	0	ITN=	9	ITC=	9
I=	32	X=	1.864	YN=	1127.04	DEPN=	.79	YC=	1126.87	DEPC=	.62	IFR=	0	ITN=	9	ITC=	9
I=	33	X=	1.900	YN=	1125.83	DEPN=	.83	YC=	1125.63	DEPC=	.63	IFR=	0	ITN=	9	ITC=	9
I=	34	X=	1.997	YN=	1122.40	DEPN=	.74	YC=	1122.24	DEPC=	.57	IFR=	0	ITN=	9	ITC=	9
I=	35	X=	2.093	YN=	1119.00	DEPN=	.67	YC=	1118.85	DEPC=	.52	IFR=	0	ITN=	9	ITC=	9
I=	36	X=	2.190	YN=	1115.62	DEPN=	.62	YC=	1115.46	DEPC=	.46	IFR=	0	ITN=	9	ITC=	9
I=	37	X=	2.287	YN=	1112.23	DEPN=	.57	YC=	1112.09	DEPC=	.42	IFR=	0	ITN=	9	ITC=	9
I=	38	X=	2.383	YN=	1108.86	DEPN=	.53	YC=	1108.73	DEPC=	.40	IFR=	0	ITN=	9	ITC=	9
I=	39	X=	2.480	YN=	1105.49	DEPN=	.49	YC=	1105.37	DEPC=	.37	IFR=	0	ITN=	9	ITC=	9
I=	40	X=	2.577	YN=	1102.12	DEPN=	.45	YC=	1102.01	DEPC=	.34	IFR=	0	ITN=	9	ITC=	9
I=	41	X=	2.673	YN=	1098.76	DEPN=	.43	YC=	1098.65	DEPC=	.32	IFR=	0	ITN=	8	ITC=	8
I=	42	X=	2.770	YN=	1095.38	DEPN=	.38	YC=	1095.29	DEPC=	.29	IFR=	0	ITN=	8	ITC=	8
I=	43	X=	2.842	YN=	1092.28	DEPN=	.45	YC=	1092.18	DEPC=	.34	IFR=	0	ITN=	8	ITC=	8
I=	44	X=	2.913	YN=	1089.16	DEPN=	.50	YC=	1089.05	DEPC=	.38	IFR=	0	ITN=	8	ITC=	8
I=	45	X=	2.985	YN=	1086.04	DEPN=	.54	YC=	1085.92	DEPC=	.42	IFR=	0	ITN=	9	ITC=	9
I=	46	X=	3.057	YN=	1082.91	DEPN=	.58	YC=	1082.80	DEPC=	.46	IFR=	0	ITN=	9	ITC=	9
I=	47	X=	3.128	YN=	1079.78	DEPN=	.62	YC=	1079.66	DEPC=	.49	IFR=	0	ITN=	9	ITC=	9
I=	48	X=	3.200	YN=	1076.70	DEPN=	.70	YC=	1076.53	DEPC=	.53	IFR=	0	ITN=	9	ITC=	9
I=	49	X=	3.216	YN=	1076.19	DEPN=	.70	YC=	1076.01	DEPC=	.52	IFR=	0	ITN=	9	ITC=	9
I=	50	X=	3.232	YN=	1075.67	DEPN=	.70	YC=	1075.49	DEPC=	.52	IFR=	0	ITN=	9	ITC=	9
I=	51	X=	3.248	YN=	1075.16	DEPN=	.71	YC=	1074.99	DEPC=	.53	IFR=	0	ITN=	9	ITC=	9
I=	52	X=	3.264	YN=	1074.64	DEPN=	.71	YC=	1074.47	DEPC=	.53	IFR=	0	ITN=	9	ITC=	9
I=	53	X=	3.280	YN=	1074.13	DEPN=	.70	YC=	1073.95	DEPC=	.53	IFR=	0	ITN=	9	ITC=	9
I=	54	X=	3.296	YN=	1073.62	DEPN=	.71	YC=	1073.44	DEPC=	.53	IFR=	0	ITN=	9	ITC=	9
I=	55	X=	3.312	YN=	1073.10	DEPN=	.71	YC=	1072.93	DEPC=	.54	IFR=	0	ITN=	9	ITC=	9
I=	56	X=	3.328	YN=	1072.58	DEPN=	.71	YC=	1072.41	DEPC=	.53	IFR=	0	ITN=	9	ITC=	9
I=	57	X=	3.345	YN=	1072.08	DEPN=	.72	YC=	1071.90	DEPC=	.53	IFR=	0	ITN=	9	ITC=	9
I=	58	X=	3.361	YN=	1071.56	DEPN=	.71	YC=	1071.39	DEPC=	.54	IFR=	0	ITN=	9	ITC=	9
I=	59	X=	3.377	YN=	1071.06	DEPN=	.72	YC=	1070.87	DEPC=	.54	IFR=	0	ITN=	9	ITC=	9
I=	60	X=	3.393	YN=	1070.54	DEPN=	.72	YC=	1070.36	DEPC=	.54	IFR=	0	ITN=	9	ITC=	9
I=	61	X=	3.409	YN=	1070.02	DEPN=	.72	YC=	1069.85	DEPC=	.55	IFR=	0	ITN=	9	ITC=	9
I=	62	X=	3.425	YN=	1069.51	DEPN=	.73	YC=	1069.33	DEPC=	.55	IFR=	0	ITN=	9	ITC=	9
I=	63	X=	3.441	YN=	1068.99	DEPN=	.72	YC=	1068.82	DEPC=	.54	IFR=	0	ITN=	9	ITC=	9
I=	64	X=	3.457	YN=	1068.49	DEPN=	.73	YC=	1068.31	DEPC=	.55	IFR=	0	ITN=	9	ITC=	9
I=	65	X=	3.473	YN=	1067.97	DEPN=	.73	YC=	1067.79	DEPC=	.55	IFR=	0	ITN=	9	ITC=	9
I=	66	X=	3.489	YN=	1067.46	DEPN=	.74	YC=	1067.29	DEPC=	.56	IFR=	0	ITN=	9	ITC=	9
I=	67	X=	3.505	YN=	1066.95	DEPN=	.73	YC=	1066.77	DEPC=	.56	IFR=	0	ITN=	9	ITC=	9
I=	68	X=	3.521	YN=	1066.44	DEPN=	.74	YC=	1066.25	DEPC=	.56	IFR=	0	ITN=	9	ITC=	9
I=	69	X=	3.537	YN=	1065.93	DEPN=	.75	YC=	1065.75	DEPC=	.57	IFR=	0	ITN=	9	ITC=	9
I=	70	X=	3.553	YN=	1065.42	DEPN=	.75	YC=	1065.23	DEPC=	.56	IFR=	0	ITN=	9	ITC=	9
I=	71	X=	3.569	YN=	1064.91	DEPN=	.76	YC=	1064.72	DEPC=	.57	IFR=	0	ITN=	9	ITC=	9
I=	72	X=	3.585	YN=	1064.39	DEPN=	.75	YC=	1064.21	DEPC=	.57	IFR=	0	ITN=	9	ITC=	9
I=	73	X=	3.602	YN=	1063.88	DEPN=	.76	YC=	1063.70	DEPC=	.58	IFR=	0	ITN=	9	ITC=	9
I=	74	X=	3.618	YN=	1063.38	DEPN=	.77	YC=	1063.18	DEPC=	.58	IFR=	0	ITN=	9	ITC=	9
I=	75	X=	3.634	YN=	1062.87	DEPN=	.78	YC=	1062.68	DEPC=	.59	IFR=	0	ITN=	9	ITC=	9
I=	76	X=	3.650	YN=	1062.35	DEPN=	.77	YC=	1062.17	DEPC=	.59	IFR=	0	ITN=	9	ITC=	9
I=	77	X=	3.666	YN=	1061.84	DEPN=	.78	YC=	1061.65	DEPC=	.59	IFR=	0	ITN=	9	ITC=	9
I=	78	X=	3.682	YN=	1061.34	DEPN=	.79	YC=	1061.15	DEPC=	.60	IFR=	0	ITN=	9	ITC=	9
I=	79	X=	3.698	YN=	1060.83	DEPN=	.80	YC=	1060.64	DEPC=	.61	IFR=	0	ITN=	9	ITC=	9
I=	80	X=	3.714	YN=	1060.32	DEPN=	.81	YC=	1060.13	DEPC=	.62	IFR=	0	ITN=	9	ITC=	9
I=	81	X=	3.730	YN=	1059.84	DEPN=	.84	YC=	1059.63	DEPC=	.63	IFR=	0	ITN=	9	ITC=	9

I=	82	X=	3.795	YN=	1058.02	DEPN=	.90	YC=	1057.74	DEPC=	.62	IFR=	0	ITN=	9	ITC=	9
I=	83	X=	3.860	YN=	1056.13	DEPN=	.88	YC=	1055.84	DEPC=	.59	IFR=	0	ITN=	9	ITC=	9
I=	84	X=	3.925	YN=	1054.24	DEPN=	.86	YC=	1053.96	DEPC=	.58	IFR=	0	ITN=	9	ITC=	9
I=	85	X=	3.990	YN=	1052.35	DEPN=	.85	YC=	1052.07	DEPC=	.57	IFR=	0	ITN=	9	ITC=	9
I=	86	X=	4.055	YN=	1050.46	DEPN=	.84	YC=	1050.18	DEPC=	.56	IFR=	0	ITN=	9	ITC=	9
I=	87	X=	4.120	YN=	1048.56	DEPN=	.81	YC=	1048.31	DEPC=	.56	IFR=	0	ITN=	9	ITC=	9
I=	88	X=	4.185	YN=	1046.68	DEPN=	.80	YC=	1046.42	DEPC=	.54	IFR=	0	ITN=	9	ITC=	9
I=	89	X=	4.250	YN=	1044.76	DEPN=	.76	YC=	1044.53	DEPC=	.53	IFR=	0	ITN=	9	ITC=	9
I=	90	X=	4.423	YN=	1039.60	DEPN=	.93	YC=	1039.24	DEPC=	.57	IFR=	0	ITN=	9	ITC=	9
I=	91	X=	4.597	YN=	1034.32	DEPN=	.99	YC=	1033.93	DEPC=	.60	IFR=	0	ITN=	9	ITC=	9
I=	92	X=	4.770	YN=	1029.12	DEPN=	1.12	YC=	1028.65	DEPC=	.65	IFR=	0	ITN=	10	ITC=	10
I=	93	X=	4.827	YN=	1027.48	DEPN=	.98	YC=	1027.23	DEPC=	.73	IFR=	0	ITN=	10	ITC=	10
I=	94	X=	4.883	YN=	1026.07	DEPN=	1.07	YC=	1025.80	DEPC=	.80	IFR=	0	ITN=	10	ITC=	10
I=	95	X=	4.940	YN=	1024.65	DEPN=	1.15	YC=	1024.37	DEPC=	.87	IFR=	0	ITN=	10	ITC=	10
I=	96	X=	4.997	YN=	1023.25	DEPN=	1.24	YC=	1022.95	DEPC=	.94	IFR=	0	ITN=	10	ITC=	10
I=	97	X=	5.053	YN=	1021.86	DEPN=	1.35	YC=	1021.52	DEPC=	1.02	IFR=	0	ITN=	10	ITC=	10
I=	98	X=	5.110	YN=	1020.47	DEPN=	1.47	YC=	1020.12	DEPC=	1.11	IFR=	0	ITN=	10	ITC=	10
I=	99	X=	5.167	YN=	1019.09	DEPN=	1.59	YC=	1018.72	DEPC=	1.21	IFR=	0	ITN=	10	ITC=	10
I=	100	X=	5.223	YN=	1017.75	DEPN=	1.74	YC=	1017.35	DEPC=	1.34	IFR=	0	ITN=	10	ITC=	10
I=	101	X=	5.280	YN=	1016.42	DEPN=	1.91	YC=	1015.98	DEPC=	1.47	IFR=	0	ITN=	10	ITC=	10
I=	102	X=	5.337	YN=	1015.14	DEPN=	2.13	YC=	1014.68	DEPC=	1.67	IFR=	0	ITN=	10	ITC=	10
I=	103	X=	5.393	YN=	1013.95	DEPN=	2.44	YC=	1013.43	DEPC=	1.92	IFR=	0	ITN=	10	ITC=	10
I=	104	X=	5.450	YN=	1013.08	DEPN=	3.07	YC=	1012.33	DEPC=	2.32	IFR=	0	ITN=	10	ITC=	10
I=	105	X=	5.500	YN=	1010.57	DEPN=	.57	YC=	1010.60	DEPC=	.60	IFR=	1	ITN=	10	ITC=	10
I=	106	X=	5.750	YN=	1002.82	DEPN=	.82	YC=	1002.62	DEPC=	.62	IFR=	0	ITN=	10	ITC=	10
I=	107	X=	6.000	YN=	994.86	DEPN=	.86	YC=	994.67	DEPC=	.67	IFR=	0	ITN=	10	ITC=	10
I=	108	X=	6.250	YN=	986.97	DEPN=	.97	YC=	986.71	DEPC=	.71	IFR=	0	ITN=	10	ITC=	10
I=	109	X=	6.583	YN=	978.84	DEPN=	.84	YC=	978.61	DEPC=	.61	IFR=	0	ITN=	10	ITC=	10
I=	110	X=	6.917	YN=	970.71	DEPN=	.71	YC=	970.51	DEPC=	.51	IFR=	0	ITN=	10	ITC=	10
I=	111	X=	7.250	YN=	962.55	DEPN=	.55	YC=	962.40	DEPC=	.40	IFR=	0	ITN=	10	ITC=	10
I=	112	X=	7.375	YN=	959.37	DEPN=	.62	YC=	959.20	DEPC=	.45	IFR=	0	ITN=	10	ITC=	10
I=	113	X=	7.500	YN=	956.17	DEPN=	.67	YC=	955.99	DEPC=	.49	IFR=	0	ITN=	10	ITC=	10
I=	114	X=	7.625	YN=	952.98	DEPN=	.73	YC=	952.78	DEPC=	.53	IFR=	0	ITN=	10	ITC=	10
I=	115	X=	7.750	YN=	949.75	DEPN=	.75	YC=	949.55	DEPC=	.55	IFR=	0	ITN=	10	ITC=	10
I=	116	X=	7.875	YN=	946.55	DEPN=	.80	YC=	946.32	DEPC=	.57	IFR=	0	ITN=	10	ITC=	10
I=	117	X=	8.000	YN=	943.32	DEPN=	.82	YC=	943.10	DEPC=	.60	IFR=	0	ITN=	10	ITC=	10
I=	118	X=	8.125	YN=	940.10	DEPN=	.85	YC=	939.87	DEPC=	.62	IFR=	0	ITN=	10	ITC=	10
I=	119	X=	8.250	YN=	936.85	DEPN=	.85	YC=	936.65	DEPC=	.65	IFR=	0	ITN=	10	ITC=	10
I=	120	X=	8.450	YN=	930.45	DEPN=	.65	YC=	930.25	DEPC=	.45	IFR=	0	ITN=	10	ITC=	10
I=	121	X=	8.650	YN=	924.12	DEPN=	.52	YC=	923.95	DEPC=	.35	IFR=	0	ITN=	10	ITC=	10
I=	122	X=	8.850	YN=	917.84	DEPN=	.44	YC=	917.68	DEPC=	.28	IFR=	0	ITN=	10	ITC=	10
I=	123	X=	9.050	YN=	911.59	DEPN=	.39	YC=	911.45	DEPC=	.25	IFR=	0	ITN=	10	ITC=	10
I=	124	X=	9.250	YN=	905.47	DEPN=	.47	YC=	905.22	DEPC=	.22	IFR=	0	ITN=	9	ITC=	9
I=	125	X=	9.450	YN=	903.27	DEPN=	.47	YC=	903.03	DEPC=	.23	IFR=	0	ITN=	9	ITC=	9
I=	126	X=	9.650	YN=	901.08	DEPN=	.48	YC=	900.84	DEPC=	.24	IFR=	0	ITN=	9	ITC=	9
I=	127	X=	9.850	YN=	898.91	DEPN=	.51	YC=	898.65	DEPC=	.25	IFR=	0	ITN=	9	ITC=	9
I=	128	X=	10.050	YN=	896.72	DEPN=	.52	YC=	896.45	DEPC=	.25	IFR=	0	ITN=	9	ITC=	9
I=	129	X=	10.250	YN=	894.56	DEPN=	.56	YC=	894.26	DEPC=	.26	IFR=	0	ITN=	8	ITC=	8
I=	130	X=	10.313	YN=	894.00	DEPN=	.56	YC=	893.70	DEPC=	.26	IFR=	0	ITN=	9	ITC=	9
I=	131	X=	10.375	YN=	893.44	DEPN=	.57	YC=	893.14	DEPC=	.26	IFR=	0	ITN=	9	ITC=	9
I=	132	X=	10.438	YN=	892.88	DEPN=	.56	YC=	892.57	DEPC=	.26	IFR=	0	ITN=	9	ITC=	9
I=	133	X=	10.500	YN=	892.32	DEPN=	.57	YC=	892.02	DEPC=	.27	IFR=	0	ITN=	9	ITC=	9
I=	134	X=	10.563	YN=	891.75	DEPN=	.56	YC=	891.44	DEPC=	.26	IFR=	0	ITN=	9	ITC=	9
I=	135	X=	10.625	YN=	891.18	DEPN=	.55	YC=	890.88	DEPC=	.26	IFR=	0	ITN=	9	ITC=	9
I=	136	X=	10.688	YN=	890.62	DEPN=	.56	YC=	890.32	DEPC=	.26	IFR=	0	ITN=	9	ITC=	9
I=	137	X=	10.750	YN=	890.05	DEPN=	.55	YC=	889.75	DEPC=	.25	IFR=	0	ITN=	9	ITC=	9
I=	138	X=	10.813	YN=	889.48	DEPN=	.55	YC=	889.19	DEPC=	.25	IFR=	0	ITN=	9	ITC=	9
I=	139	X=	10.875	YN=	888.91	DEPN=	.54	YC=	888.62	DEPC=	.24	IFR=	0	ITN=	9	ITC=	9
I=	140	X=	10.938	YN=	888.35	DEPN=	.54	YC=	888.05	DEPC=	.24	IFR=	0	ITN=	10	ITC=	10
I=	141	X=	11.000	YN=	887.78	DEPN=	.53	YC=	887.48	DEPC=	.23	IFR=	0	ITN=	10	ITC=	10
I=	142	X=	11.063	YN=	887.21	DEPN=	.52	YC=	886.92	DEPC=	.23	IFR=	0	ITN=	10	ITC=	10
I=	143	X=	11.125	YN=	886.65	DEPN=	.52	YC=	886.35	DEPC=	.23	IFR=	0	ITN=	10	ITC=	10
I=	144	X=	11.188	YN=	886.08	DEPN=	.52	YC=	885.79	DEPC=	.23	IFR=	0	ITN=	10	ITC=	10
I=	145	X=	11.250	YN=	885.51	DEPN=	.51	YC=	885.22	DEPC=	.22	IFR=	0	ITN=	10	ITC=	10

```
      (IFR(I),I=1,N)
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    1    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0    0    0    0    0    0
0    0    0    0    0
```

```
IN=  145     YNN=    885.51     DEP=       .51
     I=  144     X=  11.188     QIL=      500.     YIL=    886.07     DEP=       .51     ITB=    5
     I=  143     X=  11.125     QIL=      500.     YIL=    886.64     DEP=       .52     ITB=    5
     I=  142     X=  11.063     QIL=      500.     YIL=    887.21     DEP=       .52     ITB=    5
     I=  141     X=  11.000     QIL=      500.     YIL=    887.78     DEP=       .53     ITB=    5
     I=  140     X=  10.938     QIL=      500.     YIL=    888.35     DEP=       .54     ITB=    5
     I=  139     X=  10.875     QIL=      500.     YIL=    888.92     DEP=       .54     ITB=    5
     I=  138     X=  10.813     QIL=      500.     YIL=    889.48     DEP=       .55     ITB=    5
     I=  137     X=  10.750     QIL=      500.     YIL=    890.05     DEP=       .55     ITB=    5
     I=  136     X=  10.688     QIL=      500.     YIL=    890.62     DEP=       .56     ITB=    5
     I=  135     X=  10.625     QIL=      500.     YIL=    891.19     DEP=       .56     ITB=    5
     I=  134     X=  10.563     QIL=      500.     YIL=    891.75     DEP=       .56     ITB=    5
     I=  133     X=  10.500     QIL=      500.     YIL=    892.32     DEP=       .57     ITB=    5
     I=  132     X=  10.438     QIL=      500.     YIL=    892.88     DEP=       .57     ITB=    5
     I=  131     X=  10.375     QIL=      500.     YIL=    893.44     DEP=       .57     ITB=    5
     I=  130     X=  10.313     QIL=      500.     YIL=    894.00     DEP=       .56     ITB=    6
     I=  129     X=  10.250     QIL=      500.     YIL=    894.55     DEP=       .55     ITB=    5
     I=  128     X=  10.050     QIL=      500.     YIL=    896.69     DEP=       .49     ITB=    5
     I=  127     X=   9.850     QIL=      500.     YIL=    898.93     DEP=       .53     ITB=    5
     I=  126     X=   9.650     QIL=      500.     YIL=    901.07     DEP=       .47     ITB=    5
     I=  125     X=   9.450     QIL=      500.     YIL=    903.29     DEP=       .49     ITB=    5
     I=  124     X=   9.250     QIL=      500.     YIL=    905.45     DEP=       .45     ITB=    5
     I=  123     X=   9.050     QIL=      500.     YIL=    911.45     DEP=       .25     ITB=    5
     I=  122     X=   8.850     QIL=      500.     YIL=    917.96     DEP=       .56     ITB=    5
     I=  121     X=   8.650     QIL=      500.     YIL=    923.96     DEP=       .36     ITB=    4
     I=  120     X=   8.450     QIL=      500.     YIL=    930.58     DEP=       .78     ITB=    4
     I=  119     X=   8.250     QIL=      500.     YIL=    936.65     DEP=       .65     ITB=    5
     I=  118     X=   8.125     QIL=      500.     YIL=    940.25     DEP=      1.00     ITB=    5
     I=  117     X=   8.000     QIL=      500.     YIL=    943.18     DEP=       .68     ITB=    5
     I=  116     X=   7.875     QIL=      500.     YIL=    946.65     DEP=       .90     ITB=    3
     I=  115     X=   7.750     QIL=      500.     YIL=    949.67     DEP=       .67     ITB=    5
     I=  114     X=   7.625     QIL=      500.     YIL=    953.04     DEP=       .79     ITB=    4
     I=  113     X=   7.500     QIL=      500.     YIL=    956.12     DEP=       .62     ITB=    4
```

I=	112	X=	7.375	QIL=	500.	YIL=	959.42	DEP=	.67	ITB=	4
I=	111	X=	7.250	QIL=	500.	YIL=	962.53	DEP=	.53	ITB=	4
I=	110	X=	6.917	QIL=	500.	YIL=	970.76	DEP=	.76	ITB=	4
I=	109	X=	6.583	QIL=	500.	YIL=	978.78	DEP=	.78	ITB=	4
I=	108	X=	6.250	QIL=	500.	YIL=	987.03	DEP=	1.03	ITB=	4
I=	107	X=	6.000	QIL=	500.	YIL=	994.75	DEP=	.75	ITB=	3
I=	106	X=	5.750	QIL=	500.	YIL=	1002.91	DEP=	.91	ITB=	4
I=	105	X=	5.500	QIL=	500.	YIL=	1010.70	DEP=	.70	ITB=	4
I=	104	X=	5.450	QIL=	500.	YIL=	1013.30	DEP=	3.29	ITB=	0
I=	103	X=	5.393	QIL=	500.	YIL=	1014.18	DEP=	2.67	ITB=	4
I=	102	X=	5.337	QIL=	500.	YIL=	1015.24	DEP=	2.23	ITB=	4
I=	101	X=	5.280	QIL=	500.	YIL=	1016.48	DEP=	1.98	ITB=	4
I=	100	X=	5.223	QIL=	500.	YIL=	1017.79	DEP=	1.78	ITB=	5
I=	99	X=	5.167	QIL=	500.	YIL=	1019.13	DEP=	1.62	ITB=	5
I=	98	X=	5.110	QIL=	500.	YIL=	1020.49	DEP=	1.49	ITB=	5
I=	97	X=	5.053	QIL=	500.	YIL=	1021.88	DEP=	1.37	ITB=	5
I=	96	X=	4.997	QIL=	500.	YIL=	1023.27	DEP=	1.27	ITB=	5
I=	95	X=	4.940	QIL=	500.	YIL=	1024.67	DEP=	1.17	ITB=	5
I=	94	X=	4.883	QIL=	500.	YIL=	1026.08	DEP=	1.08	ITB=	5
I=	93	X=	4.827	QIL=	500.	YIL=	1027.49	DEP=	.99	ITB=	5
I=	92	X=	4.770	QIL=	500.	YIL=	1028.90	DEP=	.90	ITB=	6
I=	91	X=	4.597	QIL=	500.	YIL=	1034.44	DEP=	1.11	ITB=	4
I=	90	X=	4.423	QIL=	500.	YIL=	1039.49	DEP=	.83	ITB=	5
I=	89	X=	4.250	QIL=	500.	YIL=	1044.95	DEP=	.95	ITB=	5
I=	88	X=	4.185	QIL=	500.	YIL=	1046.53	DEP=	.66	ITB=	6
I=	87	X=	4.120	QIL=	500.	YIL=	1048.67	DEP=	.92	ITB=	5
I=	86	X=	4.055	QIL=	500.	YIL=	1050.37	DEP=	.75	ITB=	6
I=	85	X=	3.990	QIL=	500.	YIL=	1052.41	DEP=	.91	ITB=	5
I=	84	X=	3.925	QIL=	500.	YIL=	1054.19	DEP=	.82	ITB=	6
I=	83	X=	3.860	QIL=	500.	YIL=	1056.16	DEP=	.91	ITB=	5
I=	82	X=	3.795	QIL=	500.	YIL=	1058.00	DEP=	.87	ITB=	9
I=	81	X=	3.730	QIL=	500.	YIL=	1060.11	DEP=	1.11	ITB=	6
I=	80	X=	3.714	QIL=	500.	YIL=	1060.40	DEP=	.88	ITB=	6
I=	79	X=	3.698	QIL=	500.	YIL=	1060.81	DEP=	.78	ITB=	6
I=	78	X=	3.682	QIL=	500.	YIL=	1061.35	DEP=	.81	ITB=	6
I=	77	X=	3.666	QIL=	500.	YIL=	1061.85	DEP=	.79	ITB=	6
I=	76	X=	3.650	QIL=	500.	YIL=	1062.36	DEP=	.78	ITB=	6
I=	75	X=	3.634	QIL=	500.	YIL=	1062.87	DEP=	.78	ITB=	6
I=	74	X=	3.618	QIL=	500.	YIL=	1063.38	DEP=	.77	ITB=	6
I=	73	X=	3.602	QIL=	500.	YIL=	1063.89	DEP=	.77	ITB=	6
I=	72	X=	3.585	QIL=	500.	YIL=	1064.40	DEP=	.76	ITB=	6
I=	71	X=	3.569	QIL=	500.	YIL=	1064.91	DEP=	.76	ITB=	6
I=	70	X=	3.553	QIL=	500.	YIL=	1065.42	DEP=	.75	ITB=	6
I=	69	X=	3.537	QIL=	500.	YIL=	1065.93	DEP=	.75	ITB=	6
I=	68	X=	3.521	QIL=	500.	YIL=	1066.44	DEP=	.74	ITB=	6
I=	67	X=	3.505	QIL=	500.	YIL=	1066.95	DEP=	.74	ITB=	6
I=	66	X=	3.489	QIL=	500.	YIL=	1067.46	DEP=	.74	ITB=	6
I=	65	X=	3.473	QIL=	500.	YIL=	1067.98	DEP=	.73	ITB=	6
I=	64	X=	3.457	QIL=	500.	YIL=	1068.49	DEP=	.73	ITB=	6
I=	63	X=	3.441	QIL=	500.	YIL=	1069.00	DEP=	.73	ITB=	6
I=	62	X=	3.425	QIL=	500.	YIL=	1069.51	DEP=	.73	ITB=	6
I=	61	X=	3.409	QIL=	500.	YIL=	1070.03	DEP=	.72	ITB=	6
I=	60	X=	3.393	QIL=	500.	YIL=	1070.54	DEP=	.72	ITB=	6
I=	59	X=	3.377	QIL=	500.	YIL=	1071.05	DEP=	.72	ITB=	6
I=	58	X=	3.361	QIL=	500.	YIL=	1071.56	DEP=	.72	ITB=	6
I=	57	X=	3.345	QIL=	500.	YIL=	1072.08	DEP=	.71	ITB=	6
I=	56	X=	3.328	QIL=	500.	YIL=	1072.59	DEP=	.71	ITB=	6
I=	55	X=	3.312	QIL=	500.	YIL=	1073.10	DEP=	.71	ITB=	6
I=	54	X=	3.296	QIL=	500.	YIL=	1073.62	DEP=	.71	ITB=	6
I=	53	X=	3.280	QIL=	500.	YIL=	1074.13	DEP=	.71	ITB=	6
I=	52	X=	3.264	QIL=	500.	YIL=	1074.64	DEP=	.70	ITB=	6
I=	51	X=	3.248	QIL=	500.	YIL=	1075.16	DEP=	.70	ITB=	6
I=	50	X=	3.232	QIL=	500.	YIL=	1075.67	DEP=	.70	ITB=	6
I=	49	X=	3.216	QIL=	500.	YIL=	1076.19	DEP=	.70	ITB=	6
I=	48	X=	3.200	QIL=	500.	YIL=	1076.70	DEP=	.70	ITB=	6
I=	47	X=	3.128	QIL=	500.	YIL=	1079.76	DEP=	.59	ITB=	4

I=	46	X=	3.057	QIL=	500.	YIL=	1082.95	DEP=	.61	ITB=	5
I=	45	X=	2.985	QIL=	500.	YIL=	1086.02	DEP=	.52	ITB=	5
I=	44	X=	2.913	QIL=	500.	YIL=	1089.18	DEP=	.52	ITB=	5
I=	43	X=	2.842	QIL=	500.	YIL=	1092.27	DEP=	.43	ITB=	4
I=	42	X=	2.770	QIL=	500.	YIL=	1095.39	DEP=	.39	ITB=	5
I=	41	X=	2.673	QIL=	500.	YIL=	1098.77	DEP=	.43	ITB=	5
I=	40	X=	2.577	QIL=	500.	YIL=	1102.12	DEP=	.45	ITB=	5
I=	39	X=	2.480	QIL=	500.	YIL=	1105.50	DEP=	.50	ITB=	5
I=	38	X=	2.383	QIL=	500.	YIL=	1108.85	DEP=	.52	ITB=	5
I=	37	X=	2.287	QIL=	500.	YIL=	1112.24	DEP=	.57	ITB=	5
I=	36	X=	2.190	QIL=	500.	YIL=	1115.61	DEP=	.61	ITB=	5
I=	35	X=	2.093	QIL=	500.	YIL=	1119.01	DEP=	.67	ITB=	5
I=	34	X=	1.997	QIL=	500.	YIL=	1122.40	DEP=	.73	ITB=	5
I=	33	X=	1.900	QIL=	500.	YIL=	1125.83	DEP=	.83	ITB=	6
I=	32	X=	1.864	QIL=	500.	YIL=	1127.05	DEP=	.80	ITB=	6
I=	31	X=	1.829	QIL=	500.	YIL=	1128.27	DEP=	.77	ITB=	6
I=	30	X=	1.793	QIL=	500.	YIL=	1129.49	DEP=	.74	ITB=	6
I=	29	X=	1.757	QIL=	500.	YIL=	1130.72	DEP=	.72	ITB=	5
I=	28	X=	1.722	QIL=	500.	YIL=	1131.94	DEP=	.69	ITB=	5
I=	27	X=	1.686	QIL=	500.	YIL=	1133.18	DEP=	.68	ITB=	5
I=	26	X=	1.651	QIL=	500.	YIL=	1134.41	DEP=	.66	ITB=	5
I=	25	X=	1.615	QIL=	500.	YIL=	1135.64	DEP=	.64	ITB=	5
I=	24	X=	1.579	QIL=	500.	YIL=	1136.88	DEP=	.63	ITB=	5
I=	23	X=	1.544	QIL=	500.	YIL=	1138.11	DEP=	.61	ITB=	5
I=	22	X=	1.508	QIL=	500.	YIL=	1139.35	DEP=	.60	ITB=	5
I=	21	X=	1.473	QIL=	500.	YIL=	1140.59	DEP=	.59	ITB=	5
I=	20	X=	1.437	QIL=	500.	YIL=	1141.83	DEP=	.58	ITB=	5
I=	19	X=	1.401	QIL=	500.	YIL=	1143.07	DEP=	.57	ITB=	5
I=	18	X=	1.366	QIL=	500.	YIL=	1144.31	DEP=	.56	ITB=	5
I=	17	X=	1.330	QIL=	500.	YIL=	1145.55	DEP=	.55	ITB=	5
I=	16	X=	.975	QIL=	500.	YIL=	1154.27	DEP=	.77	ITB=	6
I=	15	X=	.620	QIL=	500.	YIL=	1162.63	DEP=	.63	ITB=	5
I=	14	X=	.573	QIL=	500.	YIL=	1164.34	DEP=	.67	ITB=	4
I=	13	X=	.527	QIL=	500.	YIL=	1166.04	DEP=	.71	ITB=	5
I=	12	X=	.480	QIL=	500.	YIL=	1167.76	DEP=	.76	ITB=	4
I=	11	X=	.433	QIL=	500.	YIL=	1169.48	DEP=	.81	ITB=	4
I=	10	X=	.387	QIL=	500.	YIL=	1171.20	DEP=	.86	ITB=	5
I=	9	X=	.340	QIL=	500.	YIL=	1172.93	DEP=	.93	ITB=	5
I=	8	X=	.293	QIL=	500.	YIL=	1174.65	DEP=	.99	ITB=	4
I=	7	X=	.247	QIL=	500.	YIL=	1176.38	DEP=	1.05	ITB=	5
I=	6	X=	.200	QIL=	500.	YIL=	1178.11	DEP=	1.11	ITB=	5
I=	5	X=	.153	QIL=	500.	YIL=	1180.06	DEP=	1.06	ITB=	5
I=	4	X=	.105	QIL=	500.	YIL=	1182.10	DEP=	1.10	ITB=	5
I=	3	X=	.057	QIL=	500.	YIL=	1184.07	DEP=	1.07	ITB=	5
I=	2	X=	.010	QIL=	500.	YIL=	1186.09	DEP=	1.09	ITB=	5
I=	1	X=	.000	QIL=	500.	YIL=	1192.00	DEP=	6.90	ITB=	0

2 500. 2 104 500. 0.

INITIAL CONDITIONS

(QDI(I),I=1,N)

500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.

500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.							

(YI(I),I=1,N)

1192.00	1186.09	1184.07	1182.10	1180.06	1178.11	1176.38	1174.65
1172.93	1171.20	1169.48	1167.76	1166.04	1164.34	1162.63	1154.27
1145.55	1144.31	1143.07	1141.83	1140.59	1139.35	1138.11	1136.88
1135.64	1134.41	1133.18	1131.94	1130.72	1129.49	1128.27	1127.05
1125.83	1122.40	1119.01	1115.61	1112.24	1108.85	1105.50	1102.12
1098.77	1095.39	1092.27	1089.18	1086.02	1082.95	1079.76	1076.70
1076.19	1075.67	1075.16	1074.64	1074.13	1073.62	1073.10	1072.59
1072.08	1071.56	1071.05	1070.54	1070.03	1069.51	1069.00	1068.49
1067.98	1067.46	1066.95	1066.44	1065.93	1065.42	1064.91	1064.40
1063.89	1063.38	1062.87	1062.36	1061.85	1061.35	1060.81	1060.40
1060.11	1058.00	1056.16	1054.19	1052.41	1050.37	1048.67	1046.53
1044.95	1039.49	1034.44	1028.90	1027.49	1026.08	1024.67	1023.27
1021.88	1020.49	1019.13	1017.79	1016.48	1015.24	1014.18	1013.30
1010.70	1002.91	994.75	987.03	978.78	970.76	962.53	959.42
956.12	953.04	949.67	946.65	943.18	940.25	936.65	930.58
923.96	917.96	911.45	905.45	903.29	901.07	898.93	896.69
894.55	894.00	893.44	892.88	892.32	891.75	891.19	890.62
890.05	889.48	888.92	888.35	887.78	887.21	886.64	886.07
885.51							

PROFILE OF INVERT ELEVATION (HS) AND INITIAL WATER SURFACE ELEVATION (YI) ALONG WATERWAY (X)

X(MILES) HST(FEET) -- "*" YI(FEET) -- "+"

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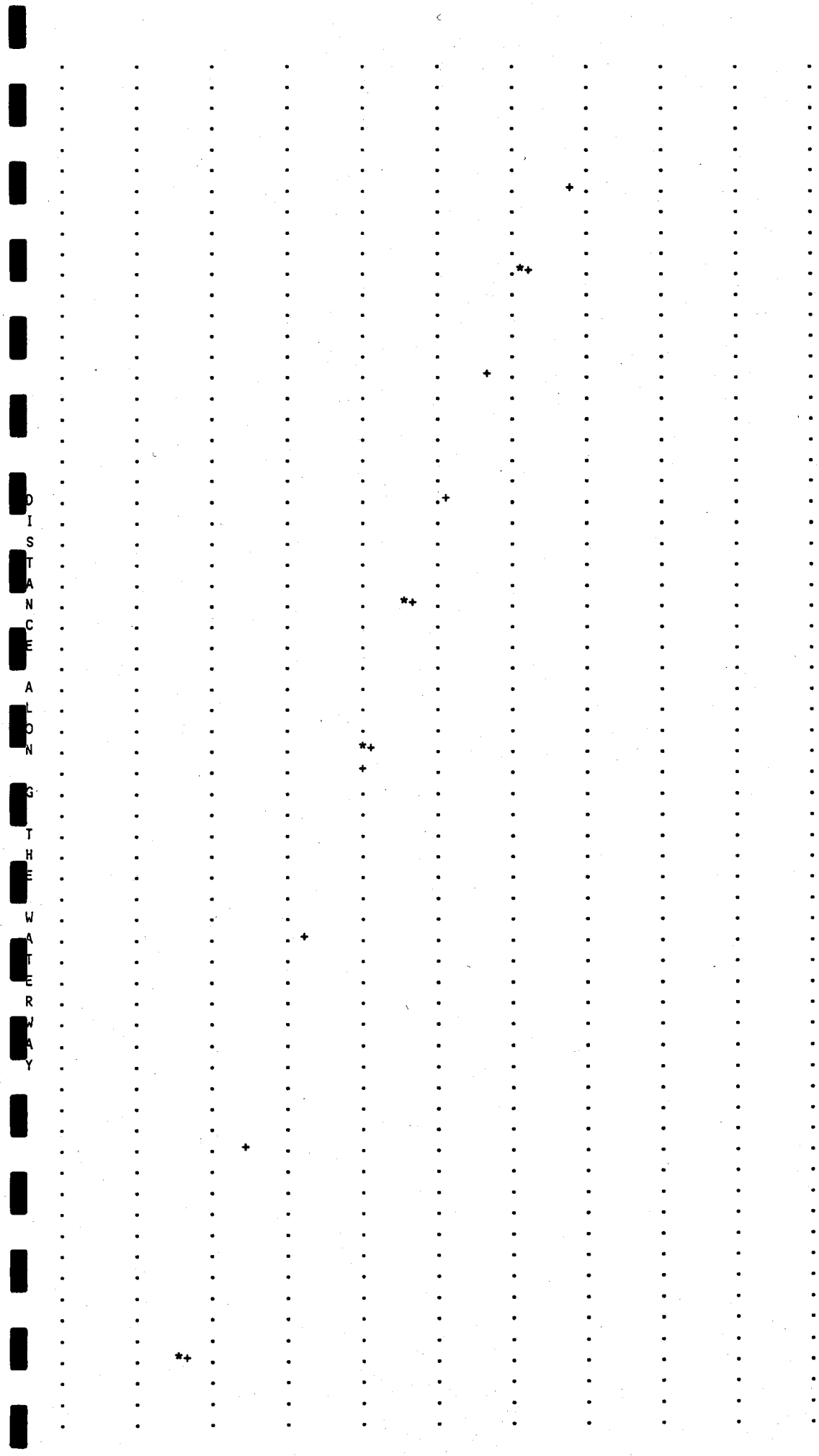
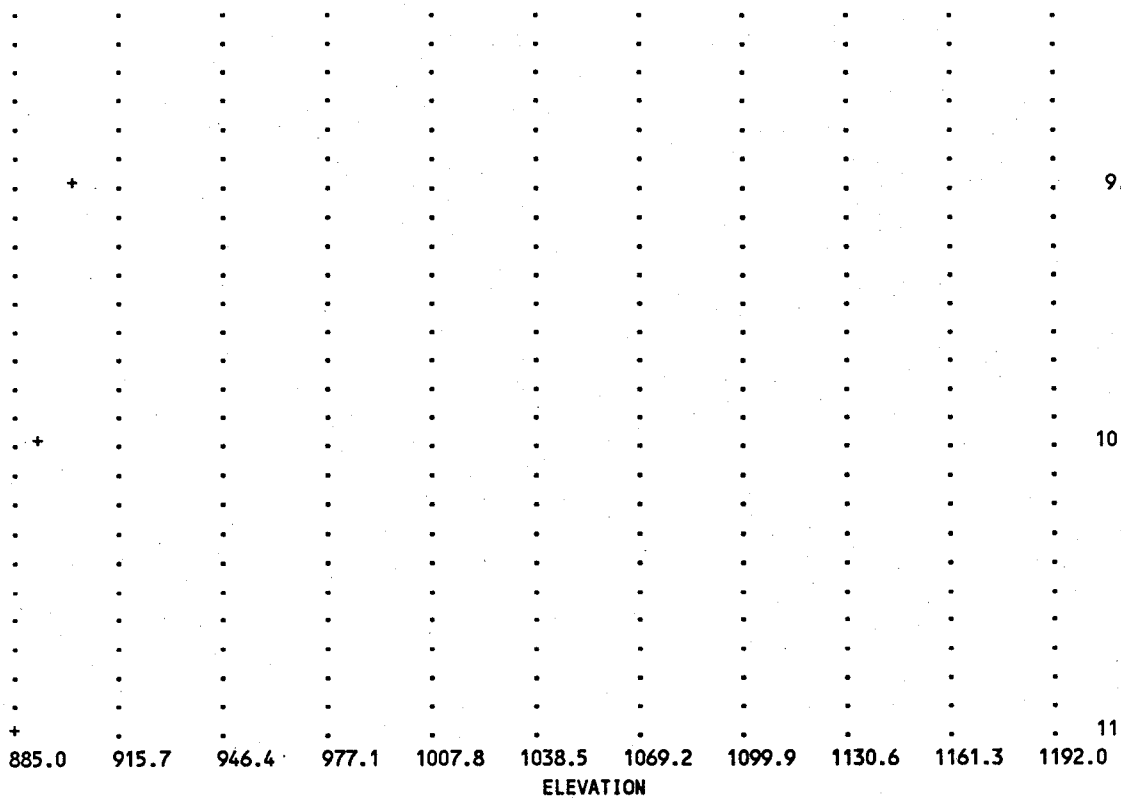
X	HS	YI	DEPTH
.00	1185.10	1192.00	6.90
.01	1185.00	1186.09	1.09
.20	1177.00	1178.11	1.11
.62	1162.00	1162.63	.63
1.33	1145.00	1145.55	.55
1.90	1125.00	1125.83	.83



2.77	1095.00	1095.39	.39
3.20	1076.00	1076.70	.70
3.73	1059.00	1060.11	1.11
4.25	1044.00	1044.95	.95
4.77	1028.00	1028.90	.90
5.45	1010.01	1013.30	3.29
5.50	1010.00	1010.70	.70
6.25	986.00	987.03	1.03
7.25	962.00	962.53	.53
8.25	936.00	936.65	.65



TIME PARAMETERS OF OUTFLOW HYDROGRAPH IMMEDIATELY DOWNSTREAM OF DAM

PARAMETER	UNITS	VARIABLE	VALUE
TIME TO FAILURE	HR	TFH	1.000
TIME TO START OF RISING LIMB OF HYDROGRAPH	HR	TFO	.000
TIME TO PEAK	HR	TP	3.250
TIME STEP SIZE	HR	DTHI	.100

TT = .0000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1192.00 QU(N) = 500.00 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
1	.000	1192.00	.05	10952.	2500.	2500.	.500	.0350	-.70	.00	4.1	.0	6.90
9	.340	1172.93	2.50	200.	339.	355.	.500	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	342.	1241.	1379.	.500	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	310.	967.	1073.	.500	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.89	264.	634.	700.	.500	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.20	417.	1931.	2146.	.500	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	305.	870.	871.	.500	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.66	301.	843.	853.	.500	.0350	-.30	.00	.0	.5	.71

65	3.473	1067.98	1.69	296.	806.	829.	.500	.0350	-.30	.00	.0	.5	.73
73	3.602	1063.89	1.74	288.	752.	794.	.500	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.83	604.	2706.	2957.	.500	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.93	540.	1138.	1233.	.500	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.24	223.	325.	1119.	.500	.0350	-1.00	.00	.0	.5	1.37
105	5.500	1010.70	2.25	222.	632.	632.	.500	.0350	-.50	.00	.0	.7	.70
113	7.500	956.12	1.73	289.	932.	1038.	.500	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.81	178.	682.	753.	.500	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.88	569.	1553.	1553.	.500	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.00	498.	1156.	1156.	.500	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	.99	506.	1170.	1170.	.500	.0350	.00	.00	.0	.3	.51

FRDM= .98 IIFR= 119 FRM= .00 IIFM= 1

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = .0000 DTH = .1000 ITERR = 0

QU(1) = 500.00 YU(1) = 1191.96 QU(N) = 501.14 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.96	.05	10856.	2500.	2500.	.500	.0350	-.70	-.04	4.1	.0	6.86
9	.340	1172.93	2.50	200.	339.	355.	.500	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	342.	1241.	1379.	.500	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	310.	967.	1073.	.500	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.90	264.	634.	700.	.501	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.20	417.	1931.	2146.	.500	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	305.	870.	871.	.500	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.66	301.	843.	853.	.500	.0350	-.30	.00	.0	.5	.71
65	3.473	1067.98	1.69	296.	806.	829.	.500	.0350	-.30	.00	.0	.5	.73
73	3.602	1063.89	1.74	288.	752.	794.	.500	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.83	604.	2706.	2957.	.500	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.93	540.	1138.	1233.	.500	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.25	223.	325.	1119.	.502	.0350	-1.00	.00	.0	.5	1.37
105	5.500	1010.70	2.24	223.	633.	633.	.500	.0350	-.50	.00	.0	.7	.70
113	7.500	956.12	1.73	289.	932.	1038.	.500	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.81	178.	682.	753.	.500	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.88	569.	1553.	1553.	.501	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.00	498.	1156.	1156.	.500	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	.99	506.	1170.	1170.	.501	.0350	.00	.00	.0	.3	.51

FRDM= .98 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.000	500.0	1191.96	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	.000	500.0	1013.31	1030.00	1010.70	1.00	.0	500.0	.0	.0	500.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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L= 1 KSP= 0 KS1= 1 KSN=145

TT = .0000 DTH = .1000 ITERR = 0

QU(1) = 500.00 YU(1) = 1191.92 QU(N) = 502.45 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********

1	.000	1191.92	.05	10760.	2500.	2500.	.500	.0350	-.70	-.02	4.1	.0	6.82
9	.340	1172.93	2.51	200.	339.	355.	.501	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	342.	1241.	1379.	.500	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	310.	967.	1073.	.501	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	417.	1931.	2146.	.503	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	305.	871.	872.	.501	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.66	301.	843.	853.	.500	.0350	-.30	.00	.0	.5	.71
65	3.473	1067.98	1.69	296.	806.	829.	.500	.0350	-.30	.00	.0	.5	.73
73	3.602	1063.89	1.74	288.	752.	794.	.500	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.83	604.	2706.	2957.	.503	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	542.	1141.	1236.	.510	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.25	223.	325.	1119.	.501	.0350	-1.00	.00	.0	.5	1.37
105	5.500	1010.71	2.25	224.	635.	635.	.504	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.504	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	178.	682.	753.	.505	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	569.	1553.	1553.	.504	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.00	498.	1156.	1156.	.500	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	.99	506.	1170.	1170.	.502	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.000	500.0	1191.92	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	.000	504.3	1013.30	1030.00	1010.71	1.00	.0	500.0	.0	.0	504.3

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = .1000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.88 QU(N) = 501.75 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.88	.05	10664.	2500.	2500.	.500	.0350	-.70	-.04	4.1	.0	6.78
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	342.	1241.	1379.	.500	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	310.	967.	1073.	.500	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.90	264.	634.	700.	.502	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.20	417.	1931.	2146.	.501	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	306.	872.	873.	.502	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.66	301.	843.	853.	.501	.0350	-.30	.00	.0	.5	.71
65	3.473	1067.98	1.69	296.	806.	829.	.500	.0350	-.30	.00	.0	.5	.73
73	3.602	1063.89	1.74	288.	752.	794.	.500	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.83	604.	2706.	2957.	.501	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.93	542.	1141.	1236.	.506	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.25	223.	325.	1119.	.502	.0350	-1.00	.00	.0	.5	1.37
105	5.500	1010.71	2.23	224.	635.	635.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.73	289.	932.	1038.	.501	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.82	178.	682.	753.	.502	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.88	569.	1553.	1553.	.502	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.00	498.	1156.	1156.	.501	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	.99	506.	1170.	1170.	.502	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.100	500.0	1191.88	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	.100	500.0	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	500.0

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
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TT = .2000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.85 QU(N) = 502.58 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.85	.05	10567.	2500.	2500.	.500	.0350	-.70	-.08	4.1	.0	6.75
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	342.	1241.	1379.	.500	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	310.	967.	1073.	.501	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.90	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	417.	1931.	2146.	.503	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	306.	873.	874.	.504	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.66	302.	844.	854.	.502	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	296.	806.	829.	.501	.0350	-.30	.00	.0	.5	.73
73	3.602	1063.89	1.74	288.	752.	794.	.500	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.83	604.	2706.	2957.	.502	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	543.	1142.	1237.	.511	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.25	223.	325.	1120.	.502	.0350	-1.00	.00	.0	.5	1.37
105	5.500	1010.71	2.26	224.	635.	635.	.505	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.504	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.83	179.	683.	753.	.506	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	569.	1553.	1553.	.504	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	499.	1156.	1156.	.501	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	.99	506.	1170.	1170.	.503	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.200	500.0	1191.85	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	.200	505.5	1013.30	1030.00	1010.71	1.00	.0	500.0	.0	.0	505.5

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = .3000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.81 QU(N) = 502.01 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.81	.05	10470.	2500.	2500.	.500	.0350	-.70	-.12	4.1	.0	6.71
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	342.	1241.	1379.	.500	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	310.	967.	1073.	.500	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.90	264.	634.	700.	.502	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.20	417.	1931.	2146.	.502	.0350	-.10	.00	.0	.5	.43

49	3.216	1076.19	1.64	307.	873.	874.	.504	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.66	302.	845.	855.	.503	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	297.	807.	830.	.502	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	288.	753.	795.	.501	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.83	604.	2706.	2957.	.502	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1142.	1237.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.25	223.	325.	1119.	.502	.0350	-1.00	.00	.0	.5	1.37
105	5.500	1010.71	2.23	224.	635.	635.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.502	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.82	179.	683.	754.	.505	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.88	569.	1553.	1553.	.503	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	499.	1157.	1157.	.502	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	.99	506.	1170.	1170.	.502	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.300	500.0	1191.81	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	.300	500.0	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	500.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = .4000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.77 QU(N) = 502.59 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.77	.05	10373.	2500.	2500.	.500	.0350	-.70	-.15	4.1	.0	6.67
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1242.	1380.	.501	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	310.	967.	1073.	.501	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.90	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	417.	1931.	2146.	.503	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.504	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	845.	856.	.504	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	297.	808.	831.	.504	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	289.	753.	796.	.502	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.83	604.	2706.	2957.	.503	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1142.	1237.	.510	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.25	223.	325.	1120.	.502	.0350	-1.00	.00	.0	.5	1.37
105	5.500	1010.71	2.26	224.	635.	635.	.507	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.503	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.83	179.	683.	754.	.507	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	569.	1553.	1553.	.504	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	499.	1157.	1157.	.502	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	.99	506.	1170.	1170.	.503	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.400	500.0	1191.77	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	.400	506.7	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	506.7

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145


TT =    .5000          DTH =   .1000          ITERR =   0
QU(1) =     500.00     YU(1) =    1191.73  QU(N) =     502.27  YU(N) =     885.51
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I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.73	.05	10276.	2500.	2500.	.500	.0350	-.70	-.19	4.1	.0	6.63
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1242.	1380.	.501	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	310.	967.	1073.	.500	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.90	264.	634.	700.	.502	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.20	417.	1932.	2146.	.503	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.504	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.66	303.	846.	856.	.504	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	297.	808.	831.	.504	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	289.	754.	796.	.504	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.83	604.	2706.	2957.	.503	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1142.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.25	223.	325.	1120.	.503	.0350	-1.00	.00	.0	.5	1.37
105	5.500	1010.71	2.23	224.	635.	635.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.503	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.83	179.	683.	754.	.506	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.88	569.	1553.	1553.	.503	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	500.	1157.	1157.	.503	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	.99	506.	1170.	1170.	.502	.0350	.00	.00	.0	.3	.51

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FRDM=     .99  IIFR=  119  FRM= .00 IIFM=    1


RESERVOIR OUTFLOW INFORMATION
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I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.500	500.0	1191.73	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	.500	500.0	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	500.0

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145


TT =    .6000          DTH =   .1000          ITERR =   0
QU(1) =     500.00     YU(1) =    1191.69  QU(N) =     502.77  YU(N) =     885.51
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I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.69	.05	10178.	2500.	2500.	.500	.0350	-.70	-.23	4.1	.0	6.59
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	310.	967.	1073.	.501	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.90	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	417.	1932.	2146.	.503	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.504	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.504	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.504	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	754.	797.	.504	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.504	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95

97	5.053	1021.88	2.25	224.	325.	1120.	.503	.0350	-1.00	.00	.0	.5	1.38
105	5.500	1010.71	2.26	225.	636.	636.	.508	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.503	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.83	179.	684.	754.	.507	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	569.	1553.	1553.	.503	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	500.	1157.	1157.	.503	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	.99	506.	1170.	1170.	.503	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.600	500.0	1191.69	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	.600	507.8	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	507.8

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = .7000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.65 QU(N) = 502.82 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.65	.05	10081.	2500.	2500.	.500	.0350	-.70	-.27	4.1	.0	6.55
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	310.	967.	1073.	.501	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.90	264.	634.	700.	.502	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	417.	1932.	2146.	.503	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.504	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.504	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.504	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	754.	797.	.504	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.26	224.	325.	1121.	.504	.0350	-1.00	.00	.0	.5	1.38
105	5.500	1010.71	2.23	225.	636.	636.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.503	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.83	179.	683.	754.	.507	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	569.	1553.	1553.	.503	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	500.	1157.	1157.	.503	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	.99	506.	1170.	1170.	.503	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.700	500.0	1191.65	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	.700	500.0	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	500.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = .8000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.61 QU(N) = 503.47 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
1	.000	1191.61	.05	9983.	2500.	2500.	.500	.0350	-.70	-.31	4.1	.0	6.51
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	967.	1073.	.501	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.90	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	417.	1932.	2146.	.503	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.504	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.504	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.504	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	754.	797.	.504	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.25	224.	325.	1122.	.505	.0350	-1.00	.00	.0	.5	1.38
105	5.500	1010.71	2.27	225.	636.	636.	.509	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.504	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.83	179.	683.	754.	.507	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.88	569.	1553.	1553.	.503	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	500.	1157.	1157.	.503	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	.99	506.	1170.	1170.	.503	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.800	500.0	1191.61	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	.800	508.8	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	508.8

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = .9000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.57 QU(N) = 503.65 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
1	.000	1191.57	.05	9885.	2500.	2500.	.500	.0350	-.70	-.35	4.1	.0	6.47
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	967.	1073.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.90	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	417.	1932.	2146.	.503	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.504	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.504	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.504	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	754.	797.	.504	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.26	224.	326.	1122.	.507	.0350	-1.00	.00	.0	.5	1.38
105	5.500	1010.71	2.23	225.	636.	636.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.503	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.83	179.	683.	754.	.507	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	569.	1553.	1553.	.503	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	500.	1157.	1157.	.503	.0350	.00	.00	.0	.3	.55

```
145     11.250   885.51       .99      506.     1170.     1170.        .504    .0350       .00       .00       .0      .3       .51
        FRDM=     .99  IIFR=  119  FRM= .00 IIFM=    1


        RESERVOIR OUTFLOW INFORMATION
      I    K        TT      Q(I)        H2        YB         D       SUB        BB     QU(1)    QBRECH    QOVTOP     QOTHR
      1    0      .900     500.0   1191.57   1214.70   1186.09      1.00        .0     500.0        .0        .0     500.0
    104    0      .900     500.0   1013.31   1030.00   1010.71      1.00        .0     500.0        .0        .0     500.0


        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145


        TT =   1.0000          DTH =   .1000          ITERR =   0
        QU(1) =     500.00     YU(1) =    1191.53  QU(N) =     504.07  YU(N) =     885.51

  I      X(I)       Y          V          A          B         BT         Q        CMM        FKC      WAVHT     DISV    FRD     DEPTH
****   ******* *********  *******  ********  ********  *******  *********  ********  *******  *******  ******  ******  ********
  1       .000  1191.53       .05     9787.     2500.     2500.       .500    .0350      -.70      -.39     4.1      .0      6.43
  9       .340  1172.93      2.50      201.      339.      355.       .502    .0350      -.30       .00      .0      .6       .93
 17      1.330  1145.55      1.46      343.     1243.     1381.       .502    .0350      -.10       .00      .0      .5       .55
 25      1.615  1135.64      1.61      311.      968.     1074.       .502    .0350      -.10       .00      .0      .5       .64
 33      1.900  1125.83      1.90      264.      634.      700.       .503    .0350      -.10       .00      .0      .5       .83
 41      2.673  1098.77      1.21      418.     1933.     2147.       .503    .0350      -.10       .00      .0      .5       .43
 49      3.216  1076.19      1.64      307.      873.      874.       .504    .0350      -.30       .00      .0      .5       .70
 57      3.345  1072.08      1.67      303.      846.      856.       .504    .0350      -.30       .00      .0      .5       .72
 65      3.473  1067.98      1.69      298.      808.      831.       .504    .0350      -.30       .00      .0      .5       .74
 73      3.602  1063.89      1.74      290.      754.      797.       .504    .0350      -.30       .00      .0      .5       .77
 81      3.730  1060.11       .84      604.     2706.     2957.       .505    .0450      -.50       .00      .0      .3      1.11
 89      4.250  1044.95       .94      544.     1143.     1238.       .509    .0600     -1.00       .00      .0      .2       .95
 97      5.053  1021.88      2.25      225.      326.     1124.       .507    .0350     -1.00       .01      .0      .5      1.38
105      5.500  1010.71      2.27      225.      636.      636.       .510    .0350      -.50       .00      .0      .7       .71
113      7.500   956.12      1.74      289.      932.     1038.       .504    .0350       .00       .00      .0      .6       .62
121      8.650   923.96      2.83      179.      683.      754.       .507    .0350       .00       .00      .0     1.0       .36
129     10.250   894.55       .89      569.     1553.     1553.       .503    .0350       .00       .00      .0      .3       .55
137     10.750   890.05      1.01      500.     1157.     1157.       .503    .0350       .00       .00      .0      .3       .55
145     11.250   885.51      1.00      506.     1170.     1170.       .504    .0350       .00       .00      .0      .3       .51
        FRDM=     .99  IIFR=  119  FRM= .00 IIFM=    1


        RESERVOIR OUTFLOW INFORMATION
      I    K        TT      Q(I)        H2        YB         D       SUB        BB     QU(1)    QBRECH    QOVTOP     QOTHR
      1    0     1.000     500.0   1191.53   1214.70   1186.09      1.00        .0     500.0        .0        .0     500.0
    104    0     1.000     509.6   1013.31   1030.00   1010.71      1.00        .0     500.0        .0        .0     509.6


        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145


        TT =   1.1000          DTH =   .1000          ITERR =   0
        QU(1) =     500.00     YU(1) =    1191.49  QU(N) =     504.23  YU(N) =     885.51

  I      X(I)       Y          V          A          B         BT         Q        CMM        FKC      WAVHT     DISV    FRD     DEPTH
****   ******* *********  *******  ********  ********  *******  *********  ********  *******  *******  ******  ******  ********
```

1	.000	1191.49	.05	9689.	2500.	2500.	.500	.0350	-.70	-.43	4.1	.0	6.40
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.90	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.504	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.504	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	754.	797.	.504	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.26	225.	326.	1124.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.22	225.	636.	636.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.503	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.83	179.	683.	754.	.508	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	569.	1553.	1553.	.503	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	500.	1157.	1157.	.503	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	1.00	506.	1170.	1170.	.504	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.100	500.0	1191.49	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	1.100	500.0	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	500.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 1.2000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.46 QU(N) = 504.51 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.46	.05	9593.	2500.	2500.	.500	.0350	-.70	-.47	4.1	.0	6.36
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.90	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.503	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.504	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.504	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.504	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	754.	797.	.504	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.25	225.	326.	1125.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.27	225.	636.	636.	.511	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.504	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.83	179.	683.	754.	.508	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	569.	1553.	1553.	.503	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	500.	1157.	1157.	.503	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	1.00	506.	1170.	1170.	.505	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.200	500.0	1191.46	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	1.200	510.5	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	510.5

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 1.3000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.42 QU(N) = 504.51 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.42	.05	9500.	2500.	2500.	.500	.0350	-.70	-.50	4.1	.0	6.32
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.503	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.70	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	754.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.26	225.	326.	1124.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.22	225.	636.	636.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.504	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.83	179.	684.	754.	.508	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	569.	1553.	1553.	.504	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	500.	1157.	1157.	.503	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	1.00	506.	1170.	1170.	.505	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.300	500.0	1191.42	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	1.300	500.0	1013.32	1030.00	1010.71	1.00	.0	500.0	.0	.0	500.0

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 1.4000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.38 QU(N) = 504.70 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.38	.05	9413.	2500.	2500.	.500	.0350	-.70	-.54	4.1	.0	6.28
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.503	.0350	-.10	.00	.0	.5	.43

49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.25	226.	327.	1126.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.27	225.	637.	637.	.511	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.504	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	754.	.508	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	569.	1553.	1553.	.504	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	500.	1157.	1157.	.503	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	1.00	506.	1170.	1170.	.505	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.400	500.0	1191.38	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	1.400	511.4	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	511.4

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 1.5000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.35 QU(N) = 504.67 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.35	.05	9334.	2500.	2500.	.500	.0350	-.70	-.57	4.1	.0	6.25
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.503	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.70	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	754.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1142.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.26	225.	326.	1125.	.510	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.22	225.	637.	637.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.504	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	754.	.508	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	569.	1553.	1553.	.504	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	500.	1157.	1157.	.503	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	1.00	506.	1170.	1170.	.505	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.500	500.0	1191.35	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	1.500	500.0	1013.32	1030.00	1010.71	1.00	.0	500.0	.0	.0	500.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 1.6000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.33 QU(N) = 504.70 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.33	.05	9265.	2500.	2500.	.500	.0350	-.70	-.60	4.1	.0	6.23
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.90	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.503	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.504	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.25	226.	327.	1126.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.27	225.	637.	637.	.513	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.504	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	754.	.508	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	569.	1553.	1553.	.504	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	500.	1157.	1157.	.503	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	1.00	506.	1170.	1170.	.505	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.600	500.0	1191.33	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	1.600	512.6	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	512.6

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 1.7000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.30 QU(N) = 504.67 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.30	.05	9209.	2500.	2500.	.500	.0350	-.70	-.62	4.1	.0	6.20
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.70	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	754.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95

97	5.053	1021.88	2.26	225.	326.	1124.	.510	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.22	225.	637.	637.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	289.	932.	1038.	.504	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	754.	.508	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	569.	1554.	1554.	.505	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	500.	1158.	1158.	.504	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	1.00	506.	1170.	1170.	.505	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.700	500.0	1191.30	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	1.700	500.0	1013.32	1030.00	1010.71	1.00	.0	500.0	.0	.0	500.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 1.8000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.29 QU(N) = 504.69 YU(N) = 885.51

I ****	X(I) *******	Y *********	V *******	A ********	B ********	BT *******	Q *********	CMM ********	FKC *******	WAVHT *******	DISV ******	FRD ******	DEPTH ********
1	.000	1191.29	.05	9172.	2500.	2500.	.500	.0350	-.70	-.64	4.1	.0	6.19
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.504	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.504	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.25	226.	327.	1126.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.27	226.	637.	637.	.513	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	290.	932.	1039.	.504	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	754.	.508	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	570.	1554.	1554.	.505	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	500.	1158.	1158.	.504	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	1.00	506.	1170.	1170.	.505	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.800	500.0	1191.29	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	1.800	513.4	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	513.4

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 1.9000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.29 QU(N) = 504.69 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.29	.05	9166.	2500.	2500.	.500	.0350	-.70	-.64	4.1	.0	6.19
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.504	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	754.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1142.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.27	225.	326.	1124.	.510	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.22	226.	637.	637.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	290.	932.	1039.	.505	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	754.	.508	.0350	.00	.00	.0	1.0	.36
129	10.250	894.55	.89	570.	1554.	1554.	.506	.0350	.00	.00	.0	.3	.55
137	10.750	890.05	1.01	501.	1158.	1158.	.504	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	1.00	506.	1170.	1170.	.505	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.900	500.0	1191.29	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	1.900	500.0	1013.32	1030.00	1010.71	1.00	.0	500.0	.0	.0	500.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 2.0000 DTH = .1000 ITERR = 0
QU(1) = 500.00 YU(1) = 1191.30 QU(N) = 504.69 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.30	.05	9198.	2500.	2500.	.500	.0350	-.70	-.62	4.1	.0	6.20
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.65	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.70	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.93	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.25	226.	327.	1126.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.28	226.	638.	638.	.514	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	290.	933.	1039.	.505	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	754.	.508	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	570.	1555.	1555.	.506	.0350	.00	.00	.0	.3	.56
137	10.750	890.05	1.01	501.	1158.	1158.	.504	.0350	.00	.00	.0	.3	.55

```
145     11.250   885.51      1.00      506.     1170.     1170.        .505    .0350       .00       .00       .0     .3       .51
        FRDM=     .99  IIFR=  119  FRM= .00 IIFM=    1


        RESERVOIR OUTFLOW INFORMATION
      I    K        TT      Q(I)        H2        YB         D       SUB        BB     QU(1)    QBRECH    QOVTOP     QOTHR
      1    0     2.000     500.0   1191.30   1214.70   1186.09      1.00        .0     500.0        .0        .0     500.0
    104    0     2.000     514.2   1013.31   1030.00   1010.71      1.00        .0     500.0        .0        .0     514.2


        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 L=     1     KSP=  0     KS1=  1     KSN=145


        TT =   2.1000          DTH =   .1000          ITERR =   0
        QU(1) =     500.00     YU(1) =    1191.34  QU(N) =     504.77  YU(N) =     885.51

  I      X(I)       Y          V          A          B          BT         Q          CMM        FKC       WAVHT     DISV    FRD     DEPTH
****   ******* *********  *******  ********  ********  *******  *********  ********  *******  *******  ******  ******  ********
  1      .000   1191.34      .05     9301.     2500.     2500.       .500    .0350      -.70      -.58     4.1      .0     6.24
  9      .340   1172.93     2.51      201.      339.      355.       .502    .0350      -.30       .00      .0      .6      .93
 17     1.330   1145.55     1.46      343.     1243.     1381.       .502    .0350      -.10       .00      .0      .5      .55
 25     1.615   1135.64     1.61      311.      968.     1074.       .502    .0350      -.10       .00      .0      .5      .64
 33     1.900   1125.83     1.91      264.      634.      700.       .503    .0350      -.10       .00      .0      .5      .83
 41     2.673   1098.77     1.21      418.     1933.     2147.       .504    .0350      -.10       .00      .0      .5      .43
 49     3.216   1076.19     1.64      307.      873.      874.       .505    .0350      -.30       .00      .0      .5      .70
 57     3.345   1072.08     1.67      303.      846.      856.       .505    .0350      -.30       .00      .0      .5      .72
 65     3.473   1067.98     1.69      298.      808.      831.       .505    .0350      -.30       .00      .0      .5      .74
 73     3.602   1063.89     1.74      290.      754.      797.       .505    .0350      -.30       .00      .0      .5      .77
 81     3.730   1060.11      .84      604.     2706.     2957.       .505    .0450      -.50       .00      .0      .3     1.11
 89     4.250   1044.95      .94      544.     1142.     1238.       .509    .0600     -1.00       .00      .0      .2      .95
 97     5.053   1021.88     2.27      225.      326.     1124.       .510    .0350     -1.00       .01      .0      .5     1.38
105     5.500   1010.71     2.21      226.      638.      638.       .500    .0350      -.50       .00      .0      .7      .71
113     7.500    956.12     1.74      290.      933.     1039.       .505    .0350       .00       .00      .0      .6      .62
121     8.650    923.96     2.84      179.      684.      754.       .508    .0350       .00       .00      .0     1.0      .36
129    10.250    894.56      .89      571.     1555.     1555.       .506    .0350       .00       .00      .0      .3      .56
137    10.750    890.05     1.01      501.     1158.     1158.       .504    .0350       .00       .00      .0      .3      .55
145    11.250    885.51     1.00      506.     1170.     1170.       .505    .0350       .00       .00      .0      .3      .51
        FRDM=     .99  IIFR=  119  FRM= .00 IIFM=    1


        RESERVOIR OUTFLOW INFORMATION
      I    K        TT      Q(I)        H2        YB         D       SUB        BB     QU(1)    QBRECH    QOVTOP     QOTHR
      1    0     2.100     500.0   1191.34   1214.70   1186.09      1.00        .0     500.0        .0        .0     500.0
    104    0     2.100     500.0   1013.32   1030.00   1010.71      1.00        .0     500.0        .0        .0     500.0


        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 L=     1     KSP=  0     KS1=  1     KSN=145


        TT =   2.2000          DTH =   .1000          ITERR =   0
        QU(1) =     500.00     YU(1) =    1191.42  QU(N) =     504.78  YU(N) =     885.51

  I      X(I)       Y          V          A          B          BT         Q          CMM        FKC       WAVHT     DISV    FRD     DEPTH
****   ******* *********  *******  ********  ********  *******  *********  ********  *******  *******  ******  ******  ********
```

1	.000	1191.42	.05	9511.	2500.	2500.	.500	.0350	-.70	-.50	4.1	.0	6.32
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.65	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.70	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.93	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.25	226.	327.	1126.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.28	226.	638.	638.	.515	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	290.	933.	1040.	.505	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	571.	1556.	1556.	.507	.0350	.00	.00	.0	.3	.56
137	10.750	890.05	1.01	501.	1158.	1158.	.505	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	1.00	506.	1170.	1170.	.505	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	2.200	500.0	1191.42	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	0	2.200	514.9	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	514.9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 2.3000 DTH = .1000 ITERR = 1
QU(1) = 500.00 YU(1) = 1191.61 QU(N) = 504.91 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.61	.05	9983.	2500.	2500.	.500	.0350	-.70	-.31	4.1	.0	6.51
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1142.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.27	225.	326.	1124.	.510	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.24	228.	641.	641.	.510	.0350	-.50	.01	.0	.7	.71
113	7.500	956.12	1.74	290.	933.	1040.	.506	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	571.	1556.	1556.	.507	.0350	.00	.00	.0	.3	.56
137	10.750	890.05	1.01	501.	1158.	1158.	.505	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	1.00	506.	1170.	1170.	.505	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.300	500.0	1191.61	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	1	2.300	510.3	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	510.3

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 2.4000 DTH = .1000 ITERR = 1
QU(1) = 500.00 YU(1) = 1192.03 QU(N) = 504.99 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1192.03	.05	11018.	2500.	2500.	.500	.0350	-.70	.10	4.1	.0	6.93
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.65	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.93	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.25	226.	327.	1126.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.26	226.	637.	637.	.510	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	290.	933.	1040.	.506	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	754.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	571.	1556.	1556.	.507	.0350	.00	.00	.0	.3	.56
137	10.750	890.05	1.01	502.	1159.	1159.	.505	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	1.00	506.	1170.	1170.	.505	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.400	500.0	1192.03	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	1	2.400	510.2	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	510.2

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 2.5000 DTH = .1000 ITERR = 1
QU(1) = 500.00 YU(1) = 1192.71 QU(N) = 505.22 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1192.71	.04	12727.	2500.	2500.	.500	.0350	-.70	.79	4.1	.0	7.61
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43

49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1142.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.26	225.	326.	1125.	.510	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.25	227.	639.	639.	.509	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	291.	934.	1040.	.506	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1556.	1556.	.507	.0350	.00	.00	.0	.3	.56
137	10.750	890.05	1.01	502.	1159.	1159.	.506	.0350	.00	.00	.0	.3	.55
145	11.250	885.51	1.00	506.	1170.	1170.	.505	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.500	500.0	1192.71	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	1	2.500	509.4	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	509.4

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 2.6000 DTH = .1000 ITERR = 1
QU(1) = 500.00 YU(1) = 1193.68 QU(N) = 505.41 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1193.68	.03	15145.	2500.	2500.	.500	.0350	-.70	1.75	4.1	.0	8.58
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.25	225.	326.	1125.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.26	226.	637.	637.	.509	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	291.	934.	1041.	.507	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1556.	1556.	.507	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	502.	1159.	1159.	.506	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.505	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.600	500.0	1193.68	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	1	2.600	509.4	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	509.4

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 2.7000 DTH = .1000 ITERR = 1
QU(1) = 500.00 YU(1) = 1194.93 QU(N) = 505.77 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1194.93	.03	18270.	2500.	2500.	.500	.0350	-.70	3.00	4.1	.0	9.83
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.65	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1142.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.26	225.	326.	1125.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.25	226.	638.	638.	.509	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	291.	934.	1041.	.507	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	502.	1159.	1159.	.506	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.506	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.700	500.0	1194.93	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	1	2.700	509.2	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	509.2

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 2.8000 DTH = .1000 ITERR = 1
QU(1) = 500.00 YU(1) = 1196.37 QU(N) = 505.98 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1196.37	.02	21887.	2500.	2500.	.500	.0350	-.70	4.45	4.1	.0	11.27
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.65	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95

97	5.053	1021.89	2.26	225.	326.	1125.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.25	226.	638.	638.	.509	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	291.	934.	1041.	.507	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	502.	1159.	1159.	.507	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.506	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.800	500.0	1196.37	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	1	2.800	509.2	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	509.2

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 2.9000 DTH = .1000 ITERR = 1
QU(1) = 500.00 YU(1) = 1197.92 QU(N) = 506.37 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1197.92	.02	25748.	2500.	2500.	.500	.0350	-.70	6.00	4.1	.0	12.82
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.26	225.	326.	1125.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.25	226.	638.	638.	.509	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	291.	935.	1042.	.508	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	754.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	503.	1159.	1159.	.507	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.506	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.900	500.0	1197.92	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	1	2.900	509.1	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	509.1

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 3.0000 DTH = .1000 ITERR = 1
QU(1) = 500.00 YU(1) = 1199.52 QU(N) = 506.62 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1199.52	.02	29752.	2500.	2500.	.500	.0350	-.70	7.60	4.1	.0	14.42
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.26	225.	326.	1125.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.25	226.	638.	638.	.509	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	291.	935.	1042.	.508	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	503.	1159.	1159.	.507	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.507	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.000	500.0	1199.52	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	1	3.000	509.1	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	509.1

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 3.1000 DTH = .1000 ITERR = 1
QU(1) = 500.00 YU(1) = 1201.25 QU(N) = 506.86 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1201.25	.01	34065.	2500.	2500.	.500	.0350	-.70	9.32	4.1	.0	16.15
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.65	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.26	225.	326.	1125.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.25	226.	638.	638.	.509	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	291.	935.	1042.	.508	.0350	.00	.00	.0	.6	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	503.	1160.	1160.	.507	.0350	.00	.00	.0	.3	.56

```
145    11.250   885.51      1.00      506.     1170.     1170.        .507    .0350       .00       .00      .0     .3       .51
        FRDM=     .99  IIFR=  119  FRM= .00 IIFM=    1


        RESERVOIR OUTFLOW INFORMATION
     I    K        TT      Q(I)        H2        YB         D       SUB        BB     QU(1)    QBRECH    QOVTOP     QOTHR
     1    1     3.100     500.0   1201.25   1214.70   1186.09      1.00        .0     500.0        .0        .0     500.0
   104    1     3.100     509.0   1013.31   1030.00   1010.71      1.00        .0     500.0        .0        .0     509.0


        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145


        TT =   3.2000          DTH =   .1000          ITERR =   1
        QU(1) =     500.00     YU(1) =    1203.01  QU(N) =     507.19  YU(N) =     885.51

 I      X(I)       Y          V          A          B          BT         Q          CMM        FKC       WAVHT     DISV    FRD     DEPTH
****   ******* *********  *******   ********   ********   *******  *********  ********   *******   *******  ******  ******  ********
 1       .000  1203.01       .01    38470.     2500.      2500.       .500    .0350      -.70     11.08      4.1     .0     17.91
 9       .340  1172.93      2.50      201.      339.       355.       .502    .0350      -.30       .00       .0     .6       .93
17      1.330  1145.55      1.46      343.     1243.      1381.       .502    .0350      -.10       .00       .0     .5       .55
25      1.615  1135.64      1.61      311.      968.      1074.       .502    .0350      -.10       .00       .0     .5       .64
33      1.900  1125.83      1.91      264.      634.       700.       .503    .0350      -.10       .00       .0     .5       .83
41      2.673  1098.77      1.21      418.     1933.      2147.       .504    .0350      -.10       .00       .0     .5       .43
49      3.216  1076.19      1.64      307.      873.       874.       .505    .0350      -.30       .00       .0     .5       .70
57      3.345  1072.08      1.67      303.      846.       856.       .505    .0350      -.30       .00       .0     .5       .72
65      3.473  1067.98      1.69      298.      808.       831.       .505    .0350      -.30       .00       .0     .5       .74
73      3.602  1063.89      1.74      290.      755.       797.       .505    .0350      -.30       .00       .0     .5       .77
81      3.730  1060.11       .84      604.     2706.      2957.       .505    .0450      -.50       .00       .0     .3      1.11
89      4.250  1044.95       .94      544.     1143.      1238.       .509    .0600     -1.00       .00       .0     .2       .95
97      5.053  1021.89      2.26      225.      326.      1125.       .509    .0350     -1.00       .01       .0     .5      1.38
105     5.500  1010.71      2.25      226.      638.       638.       .509    .0350      -.50       .00       .0     .7       .71
113     7.500   956.12      1.74      292.      935.      1042.       .508    .0350       .00       .00       .0     .5       .62
121     8.650   923.96      2.84      179.      684.       755.       .509    .0350       .00       .00       .0    1.0       .36
129    10.250   894.56       .89      572.     1557.      1557.       .508    .0350       .00       .00       .0     .3       .56
137    10.750   890.06      1.01      503.     1160.      1160.       .507    .0350       .00       .00       .0     .3       .56
145    11.250   885.51      1.00      506.     1170.      1170.       .507    .0350       .00       .00       .0     .3       .51
        FRDM=    1.00  IIFR=  119  FRM= .00 IIFM=    1


        RESERVOIR OUTFLOW INFORMATION
     I    K        TT      Q(I)        H2        YB         D       SUB        BB     QU(1)    QBRECH    QOVTOP     QOTHR
     1    1     3.200     500.0   1203.01   1214.70   1186.09      1.00        .0     500.0        .0        .0     500.0
   104    1     3.200     509.1   1013.31   1030.00   1010.71      1.00        .0     500.0        .0        .0     509.1


        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145


        TT =   3.3000          DTH =   .1000          ITERR =   1
        QU(1) =     500.00     YU(1) =    1204.58  QU(N) =     507.35  YU(N) =     885.51

 I      X(I)       Y          V          A          B          BT         Q          CMM        FKC       WAVHT     DISV    FRD     DEPTH
****   ******* *********  *******   ********   ********   *******  *********  ********   *******   *******  ******  ******  ********
```

1	.000	1204.58	.01	42390.	2500.	2500.	.500	.0350	-.70	12.65	4.1	.0	19.48
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.65	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.26	225.	326.	1125.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.25	226.	638.	638.	.509	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1043.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	503.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.507	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.300	500.0	1204.58	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	1	3.300	509.0	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	509.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 3.4000 DTH = .1000 ITERR = 1
QU(1) = 500.00 YU(1) = 1205.90 QU(N) = 507.51 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1205.90	.01	45712.	2500.	2500.	.500	.0350	-.70	13.98	4.1	.0	20.80
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.26	225.	326.	1125.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.25	226.	638.	638.	.509	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1043.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	503.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.508	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.400	500.0	1205.90	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	1	3.400	509.0	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	509.0

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 3.5000 DTH = .1000 ITERR = 1
QU(1) = 500.00 YU(1) = 1207.10 QU(N) = 507.74 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1207.10	.01	48696.	2500.	2500.	.500	.0350	-.70	15.17	4.1	.0	22.00
9	.340	1172.93	2.51	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.65	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.26	225.	326.	1125.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.25	226.	638.	638.	.509	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	937.	1044.	.510	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	503.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.508	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.500	500.0	1207.10	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	1	3.500	509.0	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	509.0

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 3.6000 DTH = .1000 ITERR = 1
QU(1) = 500.00 YU(1) = 1208.23 QU(N) = 507.76 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1208.23	.01	51515.	2500.	2500.	.500	.0350	-.70	16.30	4.1	.0	23.13
9	.340	1172.93	2.50	201.	339.	355.	.502	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.55	1.46	343.	1243.	1381.	.502	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43

49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.26	225.	326.	1125.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.25	226.	638.	638.	.509	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	293.	937.	1044.	.510	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	503.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.508	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.600	500.0	1208.23	1214.70	1186.09	1.00	.0	500.0	.0	.0	500.0
104	1	3.600	509.0	1013.31	1030.00	1010.71	1.00	.0	500.0	.0	.0	509.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 3.7000 DTH = .1000 ITERR = 3
QU(1) = 1362.43 YU(1) = 1209.28 QU(N) = 508.00 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1209.28	.03	54141.	2500.	2500.	1.362	.0350	-.70	17.35	7.7	.0	24.18
9	.340	1172.98	2.60	220.	354.	371.	.573	.0350	-.30	.06	.0	.6	.98
17	1.330	1145.55	1.46	344.	1244.	1382.	.503	.0350	-.10	.00	.0	.5	.55
25	1.615	1135.64	1.61	311.	968.	1074.	.502	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.26	225.	326.	1125.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.25	226.	638.	638.	.509	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	293.	937.	1044.	.510	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	503.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.508	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	3	3.700	1362.4	1209.28	1214.70	1186.55	1.00	.0	1362.4	.0	.0	1362.4
104	3	3.700	509.0	1013.31	1030.00	1010.71	1.00	.0	1362.4	.0	.0	509.0

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=     1     KSP=  0     KS1=  1     KSN=145


TT =   3.8000           DTH =   .1000          ITERR =   2
QU(1) =     4290.27     YU(1) =     1210.21  QU(N) =      508.11  YU(N) =      885.51
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I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1210.21	.08	56481.	2500.	2500.	4.290	.0350	-.70	18.29	23.4	.0	25.11
9	.340	1173.42	3.16	402.	502.	524.	1.269	.0350	-.30	.50	.0	.6	1.42
17	1.330	1145.56	1.47	347.	1250.	1389.	.510	.0350	-.10	.00	.0	.5	.56
25	1.615	1135.64	1.61	311.	968.	1074.	.503	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.26	225.	326.	1125.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.21	226.	638.	638.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	293.	937.	1044.	.510	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.508	.0350	.00	.00	.0	.3	.51

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FRDM=     1.00  IIFR=  119  FRM= .00 IIFM=     1
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RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	3.800	4290.3	1210.21	1211.74	1187.30	1.00	.0	4290.3	.0	.0	4290.3
104	2	3.800	500.0	1013.32	1030.00	1010.71	1.00	.0	4290.3	.0	.0	500.0

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=     1     KSP=  0     KS1=  1     KSN=145


TT =   3.9000           DTH =   .1000          ITERR =   2
QU(1) =     7352.30     YU(1) =     1211.00  QU(N) =      508.27  YU(N) =      885.51
```

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1211.00	.13	58458.	2500.	2500.	7.352	.0350	-.70	19.08	48.1	.0	25.90
9	.340	1174.26	3.69	1041.	1020.	1062.	3.838	.0350	-.30	1.34	.0	.6	2.26
17	1.330	1145.56	1.48	352.	1259.	1399.	.520	.0350	-.10	.01	.0	.5	.56
25	1.615	1135.64	1.62	312.	969.	1075.	.504	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.503	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95

97	5.053	1021.89	2.25	226.	326.	1126.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.28	226.	637.	637.	.514	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	293.	937.	1044.	.510	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.508	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	3.900	7352.3	1211.00	1208.78	1187.78	1.00	55.0	7352.3	583.0	.0	6769.3
104	2	3.900	513.8	1013.31	1030.00	1010.71	1.00	.0	7352.3	.0	.0	513.8

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 4.0000 DTH = .1000 ITERR = 2
QU(1) = 13638.11 YU(1) = 1211.61 QU(N) = 508.39 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1211.61	.23	59987.	2500.	2500.	13.638	.0350	-.70	19.69	86.7	.0	26.51
9	.340	1175.02	4.32	1995.	1490.	1550.	8.624	.0350	-.30	2.09	.0	.7	3.02
17	1.330	1145.56	1.48	352.	1259.	1399.	.520	.0350	-.10	.01	.0	.5	.56
25	1.615	1135.64	1.62	312.	970.	1076.	.505	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.504	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.65	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.26	225.	326.	1124.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.22	226.	637.	637.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	293.	937.	1044.	.510	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	754.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.508	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	4.000	13638.1	1211.61	1205.82	1188.43	1.00	82.5	13638.1	3765.5	.0	9872.6
104	2	4.000	500.0	1013.32	1030.00	1010.71	1.00	.0	13638.1	.0	.0	500.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 4.1000 DTH = .1000 ITERR = 2
QU(1) = 21759.10 YU(1) = 1212.00 QU(N) = 508.45 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1212.00	.36	60959.	2500.	2500.	21.759	.0350	-.70	20.08	146.3	.0	26.90
9	.340	1175.71	4.98	3171.	1896.	1969.	15.795	.0350	-.30	2.79	.0	.7	3.71
17	1.330	1145.56	1.48	352.	1259.	1399.	.520	.0350	-.10	.01	.0	.5	.56
25	1.615	1135.64	1.60	312.	970.	1076.	.500	.0350	-.10	.00	.0	.5	.64
33	1.900	1125.83	1.91	264.	634.	700.	.504	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.25	226.	327.	1126.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.28	226.	638.	638.	.515	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	937.	1044.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.508	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	4.100	21759.1	1212.00	1202.86	1189.04	1.00	110.0	21759.1	10049.2	.0	11709.9
104	2	4.100	515.3	1013.31	1030.00	1010.71	1.00	.0	21759.1	.0	.0	515.3

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 4.2000 DTH = .1000 ITERR = 2
QU(1) = 31806.40 YU(1) = 1212.14 QU(N) = 508.53 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1212.14	.52	61296.	2500.	2500.	31.806	.0350	-.70	20.21	221.3	.0	27.04
9	.340	1176.38	5.60	4564.	2269.	2353.	25.579	.0350	-.30	3.46	.0	.7	4.38
17	1.330	1145.79	1.91	703.	1778.	1976.	1.342	.0350	-.10	.24	.0	.5	.79
25	1.615	1135.66	1.65	324.	987.	1096.	.534	.0350	-.10	.01	.0	.5	.66
33	1.900	1125.83	1.91	264.	634.	701.	.505	.0350	-.10	.00	.0	.5	.83
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.65	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.27	225.	326.	1124.	.510	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.21	226.	638.	638.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1044.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56

145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .02 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	4.200	31806.4	1212.14	1199.90	1189.61	1.00	137.5	31806.4	19540.8	.0	12265.6
104	2	4.200	500.0	1013.32	1030.00	1010.71	1.00	.0	31806.4	.0	.0	500.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 4.3000 DTH = .1000 ITERR = 2
QU(1) = 43418.17 YU(1) = 1211.98 QU(N) = 508.58 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1211.98	.71	60908.	2500.	2500.	43.418	.0350	-.70	20.06	310.8	.0	26.88
9	.340	1176.99	6.14	6037.	2607.	2701.	37.064	.0350	-.30	4.06	.0	.7	4.99
17	1.330	1146.41	2.89	2215.	3069.	3401.	6.400	.0350	-.10	.86	.0	.6	1.41
25	1.615	1135.84	1.97	536.	1270.	1409.	1.055	.0350	-.10	.20	.0	.5	.84
33	1.900	1125.85	1.94	275.	647.	715.	.534	.0350	-.10	.02	.0	.5	.85
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.65	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.25	226.	327.	1126.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.28	226.	638.	638.	.516	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	937.	1044.	.510	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	180.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .03 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	4.300	43418.2	1211.98	1196.94	1190.11	1.00	165.0	43418.2	32016.0	.0	11402.2
104	2	4.300	516.1	1013.31	1030.00	1010.71	1.00	.0	43418.2	.0	.0	516.1

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 4.4000 DTH = .1000 ITERR = 2
QU(1) = 55856.49 YU(1) = 1211.50 QU(N) = 508.59 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********

1	.000	1211.50	.94	59707.	2500.	2500.	55.856	.0350	-.70	19.58	410.2	.0	26.40
9	.340	1177.52	6.71	7500.	2813.	2916.	50.332	.0350	-.30	4.59	.0	.7	5.52
17	1.330	1147.06	3.67	4628.	4344.	4803.	16.995	.0350	-.10	1.51	.0	.6	2.06
25	1.615	1136.50	2.73	1824.	2757.	3046.	4.987	.0350	-.10	.86	.0	.6	1.50
33	1.900	1126.07	1.66	452.	1283.	1413.	.753	.0350	-.10	.24	.0	.5	1.07
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1142.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.27	225.	326.	1124.	.510	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.21	226.	638.	638.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1044.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	180.	684.	755.	.510	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .03 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	4.400	55856.5	1211.50	1193.98	1190.53	1.00	192.5	55856.5	46970.9	.0	8885.6
104	2	4.400	500.0	1013.33	1030.00	1010.71	1.00	.0	55856.5	.0	.0	500.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 4.5000 DTH = .1000 ITERR = 2
QU(1) = 68804.86 YU(1) = 1210.65 QU(N) = 508.67 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1210.65	1.19	57589.	2500.	2500.	68.805	.0350	-.70	18.73	515.1	.0	25.55
9	.340	1177.94	7.34	8696.	2841.	2951.	63.828	.0350	-.30	5.02	.0	.7	5.94
17	1.330	1147.61	4.35	7256.	5223.	5764.	31.532	.0350	-.10	2.06	.0	.6	2.61
25	1.615	1137.31	3.77	4679.	4277.	4713.	17.649	.0350	-.10	1.67	.0	.6	2.31
33	1.900	1126.65	2.59	1639.	2663.	2929.	4.251	.0350	-.10	.82	.0	.6	1.65
41	2.673	1098.77	1.21	418.	1933.	2147.	.504	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.64	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.25	226.	327.	1126.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.28	227.	639.	639.	.517	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1043.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	180.	684.	755.	.510	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .04 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	4.500	68804.9	1210.65	1191.02	1190.93	1.00	220.0	68804.9	63627.9	.0	5177.0
104	2	4.500	516.6	1013.31	1030.00	1010.71	1.00	.0	68804.9	.0	.0	516.6

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
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TT = 4.6000 DTH = .1000 ITERR = 4
QU(1) = 82112.66 YU(1) = 1209.39 QU(N) = 508.66 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1209.39	1.51	54417.	2500.	2500.	82.113	.0350	-.70	17.46	623.6	.1	24.29
9	.340	1178.32	7.92	9771.	2866.	2982.	77.364	.0350	-.30	5.39	.0	.8	6.32
17	1.330	1148.09	4.91	9932.	5906.	6515.	48.779	.0350	-.10	2.53	.0	.7	3.09
25	1.615	1137.99	4.47	7993.	5559.	6144.	35.698	.0350	-.10	2.34	.0	.7	2.99
33	1.900	1127.52	3.68	4817.	4734.	5233.	17.724	.0350	-.10	1.69	.0	.6	2.52
41	2.673	1098.77	1.21	419.	1937.	2152.	.507	.0350	-.10	.00	.0	.5	.43
49	3.216	1076.19	1.65	307.	873.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1142.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.27	225.	326.	1124.	.510	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.21	227.	639.	639.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1043.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	180.	684.	755.	.510	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	4	4.600	82112.7	1209.39	1188.06	1191.31	1.00	247.5	82112.7	80905.5	.0	1207.2
104	4	4.600	500.0	1013.33	1030.00	1010.71	1.00	.0	82112.7	.0	.0	500.0

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
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TT = 4.7000 DTH = .1000 ITERR = 3
QU(1) = 97378.78 YU(1) = 1207.62 QU(N) = 508.74 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1207.62	1.95	50002.	2500.	2500.	97.379	.0350	-.70	15.70	741.7	.1	22.52
9	.340	1178.71	8.48	10884.	2892.	3015.	92.275	.0350	-.30	5.78	.0	.8	6.71
17	1.330	1148.49	5.48	12363.	6168.	6817.	67.719	.0350	-.10	2.94	.0	.7	3.49
25	1.615	1138.50	4.96	11092.	6544.	7250.	54.982	.0350	-.10	2.86	.0	.7	3.50
33	1.900	1128.24	4.40	8911.	6586.	7305.	39.241	.0350	-.10	2.41	.0	.7	3.24
41	2.673	1098.80	1.27	482.	2077.	2307.	.613	.0350	-.10	.03	.0	.5	.46

49	3.216	1076.19	1.64	307.	874.	874.	.505	.0350	-.30	.00	.0	.5	.70
57	3.345	1072.08	1.67	303.	846.	856.	.505	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.69	298.	808.	831.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.93	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.25	226.	327.	1126.	.507	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.28	227.	639.	639.	.517	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1043.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	180.	684.	755.	.510	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .08 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	3	4.700	97378.8	1207.62	1185.10	1191.71	1.00	275.0	97378.8	97378.8	.0	.0
104	3	4.700	516.9	1013.31	1030.00	1010.71	1.00	.0	97378.8	.0	.0	516.9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 4.8000 DTH = .1000 ITERR = 3
QU(1) = 84565.81 YU(1) = 1205.67 QU(N) = 508.70 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1205.67	1.87	45127.	2500.	2500.	84.566	.0350	-.70	13.75	751.8	.1	20.57
9	.340	1178.70	8.40	10849.	2891.	3014.	91.119	.0350	-.30	5.77	.0	.8	6.70
17	1.330	1148.77	5.85	14142.	6352.	7030.	82.668	.0350	-.10	3.22	.0	.7	3.77
25	1.615	1138.89	5.32	13824.	7303.	8103.	73.558	.0350	-.10	3.25	.0	.7	3.89
33	1.900	1128.73	4.84	12426.	7834.	8702.	60.148	.0350	-.10	2.90	.0	.7	3.73
41	2.673	1099.32	2.18	2154.	4258.	4710.	4.688	.0350	-.10	.56	.0	.5	.99
49	3.216	1076.19	1.65	310.	877.	878.	.511	.0350	-.30	.01	.0	.5	.71
57	3.345	1072.08	1.67	304.	847.	857.	.506	.0350	-.30	.00	.0	.5	.72
65	3.473	1067.98	1.70	298.	809.	832.	.505	.0350	-.30	.00	.0	.5	.74
73	3.602	1063.89	1.74	290.	755.	797.	.505	.0350	-.30	.00	.0	.5	.77
81	3.730	1060.11	.84	604.	2706.	2957.	.505	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.94	544.	1142.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.88	2.27	225.	326.	1124.	.510	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.24	229.	642.	642.	.511	.0350	-.50	.01	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1043.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.510	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .08 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	3	4.800	84565.8	1205.67	1185.10	1191.39	1.00	275.0	84565.8	84565.8	.0	.0
104	3	4.800	511.4	1013.31	1030.00	1010.71	1.00	.0	84565.8	.0	.0	511.4

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 4.9000 DTH = .1000 ITERR = 3
QU(1) = 72864.45 YU(1) = 1203.79 QU(N) = 508.72 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1203.79	1.80	40424.	2500.	2500.	72.864	.0350	-.70	11.87	650.5	.1	18.69
9	.340	1178.32	7.83	9775.	2866.	2982.	76.511	.0350	-.30	5.40	.0	.7	6.32
17	1.330	1148.90	5.99	14979.	6438.	7128.	89.735	.0350	-.10	3.35	.0	.7	3.90
25	1.615	1139.11	5.59	15455.	7510.	8335.	86.368	.0350	-.10	3.47	.0	.7	4.11
33	1.900	1129.06	5.18	15161.	8520.	9470.	78.574	.0350	-.10	3.23	.0	.7	4.06
41	2.673	1100.30	3.87	7309.	6310.	6969.	28.277	.0350	-.10	1.53	.0	.6	1.96
49	3.216	1076.41	2.02	533.	1151.	1153.	1.079	.0350	-.30	.23	.0	.5	.93
57	3.345	1072.16	1.80	371.	936.	947.	.667	.0350	-.30	.08	.0	.5	.79
65	3.473	1068.00	1.73	316.	833.	856.	.548	.0350	-.30	.02	.0	.5	.76
73	3.602	1063.90	1.75	295.	761.	803.	.516	.0350	-.30	.01	.0	.5	.77
81	3.730	1060.11	.84	606.	2707.	2958.	.508	.0450	-.50	.00	.0	.3	1.11
89	4.250	1044.95	.93	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.25	226.	327.	1126.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.26	226.	638.	638.	.511	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1043.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .08 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	3	4.900	72864.4	1203.79	1185.10	1191.06	1.00	275.0	72864.4	72864.4	.0	.0
104	3	4.900	511.1	1013.31	1030.00	1010.71	1.00	.0	72864.4	.0	.0	511.1

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 5.0000 DTH = .1000 ITERR = 3
QU(1) = 61333.84 YU(1) = 1201.82 QU(N) = 508.71 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1201.82	1.73	35501.	2500.	2500.	61.334	.0350	-.70	9.90	554.5	.1	16.72
9	.340	1178.01	7.37	8874.	2845.	2956.	65.433	.0350	-.30	5.08	.0	.7	6.01
17	1.330	1148.82	5.85	14472.	6386.	7069.	84.650	.0350	-.10	3.27	.0	.7	3.82
25	1.615	1139.14	5.62	15661.	7510.	8335.	87.951	.0350	-.10	3.50	.0	.7	4.14
33	1.900	1129.20	5.40	16322.	8520.	9470.	88.178	.0350	-.10	3.37	.0	.7	4.20
41	2.673	1101.04	4.73	12592.	7887.	8706.	59.536	.0350	-.10	2.28	.0	.7	2.71
49	3.216	1077.71	3.77	3087.	2779.	2782.	11.649	.0350	-.30	1.53	.0	.6	2.23
57	3.345	1073.11	3.19	1792.	2063.	2088.	5.712	.0350	-.30	1.03	.0	.6	1.74
65	3.473	1068.58	2.65	976.	1463.	1505.	2.588	.0350	-.30	.60	.0	.6	1.33
73	3.602	1064.15	2.31	524.	1015.	1071.	1.211	.0350	-.30	.27	.0	.6	1.03
81	3.730	1060.15	.98	728.	2740.	2994.	.712	.0450	-.50	.05	.0	.3	1.15
89	4.250	1044.95	.94	544.	1143.	1238.	.509	.0600	-1.00	.00	.0	.2	.95

97	5.053	1021.89	2.26	225.	326.	1125.	.510	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.25	227.	639.	639.	.510	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1043.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .08 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	3	5.000	61333.8	1201.82	1185.10	1190.71	1.00	275.0	61333.8	61333.8	.0	.0
104	3	5.000	510.1	1013.31	1030.00	1010.71	1.00	.0	61333.8	.0	.0	510.1

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 5.1000 DTH = .1000 ITERR = 4
QU(1) = 51284.63 YU(1) = 1199.99 QU(N) = 508.71 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1199.99	1.66	30922.	2500.	2500.	51.285	.0350	-.70	8.06	465.4	.1	14.89
9	.340	1177.71	6.91	8031.	2825.	2931.	55.478	.0350	-.30	4.78	.0	.7	5.71
17	1.330	1148.61	5.55	13130.	6248.	6909.	72.866	.0350	-.10	3.06	.0	.7	3.61
25	1.615	1139.02	5.39	14796.	7510.	8335.	79.695	.0350	-.10	3.38	.0	.7	4.02
33	1.900	1129.15	5.30	15938.	8520.	9470.	84.508	.0350	-.10	3.32	.0	.7	4.15
41	2.673	1101.40	5.08	15579.	8653.	9550.	79.115	.0350	-.10	2.64	.0	.7	3.07
49	3.216	1079.25	5.25	8880.	4746.	4753.	46.651	.0350	-.30	3.07	.0	.7	3.77
57	3.345	1074.67	4.75	6961.	4446.	4518.	33.065	.0350	-.30	2.60	.0	.7	3.31
65	3.473	1070.00	4.11	4955.	3994.	4139.	20.348	.0350	-.30	2.02	.0	.6	2.75
73	3.602	1065.26	3.32	3154.	3503.	3719.	10.476	.0350	-.30	1.37	.0	.6	2.14
81	3.730	1060.62	2.03	2094.	3083.	3378.	4.256	.0437	-.50	.51	.0	.4	1.62
89	4.250	1044.95	.94	545.	1144.	1239.	.510	.0600	-1.00	.00	.0	.2	.95
97	5.053	1021.89	2.26	225.	326.	1125.	.508	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.20	227.	639.	639.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1043.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .08 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	4	5.100	51284.6	1199.99	1185.10	1190.39	1.00	275.0	51284.6	51284.6	.0	.0
104	4	5.100	500.0	1013.32	1030.00	1010.71	1.00	.0	51284.6	.0	.0	500.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 5.2000 DTH = .1000 ITERR = 4
QU(1) = 43734.02 YU(1) = 1198.52 QU(N) = 508.71 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1198.52	1.60	27259.	2500.	2500.	43.734	.0350	-.70	6.60	392.6	.1	13.42
9	.340	1177.42	6.46	7230.	2806.	2908.	46.693	.0350	-.30	4.50	.0	.7	5.42
17	1.330	1148.41	5.27	11863.	6115.	6756.	62.576	.0350	-.10	2.86	.0	.7	3.41
25	1.615	1138.83	5.16	13385.	7186.	7972.	69.027	.0350	-.10	3.19	.0	.7	3.83
33	1.900	1129.03	5.05	14871.	8520.	9470.	75.120	.0350	-.10	3.20	.0	.7	4.03
41	2.673	1101.52	5.20	16564.	8752.	9661.	86.172	.0350	-.10	2.75	.0	.7	3.18
49	3.216	1080.05	6.01	12962.	5391.	5403.	77.925	.0350	-.30	3.87	.0	.7	4.57
57	3.345	1075.75	5.95	12140.	5214.	5335.	72.245	.0350	-.30	3.67	.0	.7	4.38
65	3.473	1071.31	5.80	10805.	4941.	5171.	62.708	.0350	-.30	3.33	.0	.7	4.06
73	3.602	1066.71	5.53	8992.	4558.	4886.	49.724	.0350	-.30	2.82	.0	.7	3.59
81	3.730	1062.13	4.59	7585.	4187.	4612.	34.821	.0384	-.50	2.03	.0	.6	3.13
89	4.250	1045.05	1.05	658.	1293.	1402.	.687	.0600	-1.00	.10	.0	.3	1.05
97	5.053	1021.89	2.26	226.	326.	1126.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.28	225.	637.	637.	.515	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1043.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	572.	1557.	1557.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .09 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	4	5.200	43734.0	1198.52	1185.10	1190.13	1.00	275.0	43734.0	43734.0	.0	.0
104	4	5.200	514.8	1013.31	1030.00	1010.71	1.00	.0	43734.0	.0	.0	514.8

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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L= 1 KSP= 0 KS1= 1 KSN=145

TT = 5.3000 DTH = .1000 ITERR = 6
QU(1) = 37981.59 YU(1) = 1197.34 QU(N) = 508.71 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1197.34	1.56	24311.	2500.	2500.	37.982	.0350	-.70	5.42	337.7	.1	12.24
9	.340	1177.19	6.19	6574.	2719.	2817.	40.690	.0350	-.30	4.26	.0	.7	5.19
17	1.330	1148.23	5.03	10815.	6003.	6626.	54.394	.0350	-.10	2.68	.0	.7	3.23
25	1.615	1138.63	4.97	11985.	6802.	7540.	59.536	.0350	-.10	2.99	.0	.7	3.63
33	1.900	1128.88	4.87	13573.	8200.	9112.	66.108	.0350	-.10	3.04	.0	.7	3.88
41	2.673	1101.45	5.07	16018.	8743.	9649.	81.255	.0350	-.10	2.69	.0	.7	3.12
49	3.216	1080.20	6.13	13764.	5495.	5508.	84.358	.0350	-.30	4.01	.0	.7	4.72
57	3.345	1076.03	6.18	13671.	5420.	5554.	84.551	.0350	-.30	3.96	.0	.7	4.67
65	3.473	1071.84	6.20	13562.	5408.	5673.	84.045	.0350	-.30	3.86	.0	.7	4.60
73	3.602	1067.57	6.14	13205.	5437.	5841.	81.085	.0350	-.30	3.68	.0	.7	4.45
81	3.730	1063.27	5.77	12872.	5558.	6111.	74.330	.0350	-.50	3.16	.0	.7	4.27
89	4.250	1046.45	1.94	4744.	5412.	5983.	9.198	.0600	-1.00	1.50	.0	.4	2.45
97	5.053	1021.88	2.26	225.	326.	1124.	.509	.0350	-1.00	.01	.0	.5	1.38
105	5.500	1010.71	2.22	225.	637.	637.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1043.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	573.	1558.	1558.	.508	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56

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145     11.250   885.51      1.00      506.     1170.     1170.        .509    .0350       .00       .00       .0      .3       .51
        FRDM=    1.00  IIFR=  119  FRM= .09 IIFM=    1


        RESERVOIR OUTFLOW INFORMATION
      I    K        TT      Q(I)        H2        YB         D       SUB        BB     QU(1)    QBRECH    QOVTOP     QOTHR
      1    6     5.300   37981.6   1197.34   1185.10   1189.91      1.00     275.0   37981.6   37981.6        .0        .0
    104    6     5.300     500.0   1013.32   1030.00   1010.71      1.00        .0   37981.6        .0        .0     500.0


        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  L=    1     KSP=  0     KS1=  1     KSN=145
                                  NONCONVERGENCE OCCURRED AT CROSS-SECTION NO.     86   87   88   89   90   91   92   93   94
                                                   TT=    5.3000     DTH=     .1000     ITERR= 9


        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  L=    1     KSP=  0     KS1=  1     KSN=145
                                  NONCONVERGENCE OCCURRED AT CROSS-SECTION NO.     89   90   91   92   93   94   95
                                                   TT=    5.3000     DTH=     .0500     ITERR= 9


        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
        IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  L=    1     KSP=  0     KS1=  1     KSN=145


        TT =   5.3125          DTH =   .0125          ITERR =   1
        QU(1) =   37366.28     YU(1) =    1197.21  QU(N) =     509.29  YU(N) =     885.51

  I      X(I)       Y          V         A         B         BT        Q         CMM       FKC       WAVHT     DISV    FRD     DEPTH
****   ******* *********  *******  ********  ********  *******  *********  ********  *******  *******  ******  ******  ********
  1      .000  1197.21      1.56    23987.    2500.     2500.     37.366    .0350     -.70      5.29    38.9     .1     12.11
  9      .340  1177.16      6.16     6495.    2703.     2800.     40.024    .0350     -.30      4.23      .0     .7      5.16
 17     1.330  1148.21      5.00    10689.    5989.     6610.     53.425    .0350     -.10      2.66      .0     .7      3.21
 25     1.615  1138.61      4.95    11828.    6757.     7489.     58.495    .0350     -.10      2.97      .0     .7      3.61
 33     1.900  1128.85      4.85    13400.    8146.     9051.     65.008    .0350     -.10      3.02      .0     .7      3.85
 41     2.673  1101.44      5.04    15878.    8726.     9630.     80.105    .0350     -.10      2.67      .0     .7      3.10
 49     3.216  1080.20      6.12    13769.    5495.     5508.     84.329    .0350     -.30      4.02      .0     .7      4.72
 57     3.345  1076.03      6.17    13665.    5419.     5553.     84.277    .0350     -.30      3.96      .0     .7      4.67
 65     3.473  1071.85      6.18    13622.    5423.     5690.     84.151    .0350     -.30      3.88      .0     .7      4.61
 73     3.602  1067.61      6.13    13440.    5521.     5930.     82.399    .0350     -.30      3.73      .0     .7      4.49
 81     3.730  1063.34      5.80    13308.    5770.     6339.     77.202    .0350     -.50      3.24      .0     .7      4.34
 89     4.250  1046.63      2.04     5816.    6309.     6989.     11.843    .0600    -1.00      1.68      .0     .4      2.63
 97     5.053  1021.89      2.22      227.     328.     1130.       .504    .0350    -1.00       .01      .0     .5      1.39
105     5.500  1010.71      2.28      228.     640.      640.       .518    .0350     -.50       .01      .0     .7       .71
113     7.500   956.12      1.74      293.     937.     1044.       .510    .0350      .00       .00      .0     .6       .62
121     8.650   923.96      2.84      179.     684.      755.       .509    .0350      .00       .00      .0    1.0       .36
129    10.250   894.56       .89      573.    1558.     1558.       .508    .0350      .00       .00      .0     .3       .56
137    10.750   890.06      1.01      504.    1160.     1160.       .508    .0350      .00       .00      .0     .3       .56
145    11.250   885.51      1.01      506.    1170.     1170.       .509    .0350      .00       .00      .0     .3       .51
        FRDM=    1.00  IIFR=  119  FRM= .09 IIFM=    1


        RESERVOIR OUTFLOW INFORMATION
      I    K        TT      Q(I)        H2        YB         D       SUB        BB     QU(1)    QBRECH    QOVTOP     QOTHR
      1    1     5.312   37366.3   1197.21   1185.10   1189.88      1.00     275.0   37366.3   37366.3        .0        .0
```

104	1	5.312	518.4	1013.31	1030.00	1010.71	1.00	.0	37366.3	.0	.0	518.4

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

```
TT =   5.4000          DTH =   .0875          ITERR =   6
QU(1) =   33542.56     YU(1) =    1196.39  QU(N) =     508.59  YU(N) =     885.51
```

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1196.39	1.53	21924.	2500.	2500.	33.543	.0350	-.70	4.47	256.4	.1	11.29
9	.340	1176.97	6.00	5981.	2595.	2689.	35.858	.0350	-.30	4.04	.0	.7	4.97
17	1.330	1148.08	4.80	9891.	5902.	6510.	47.502	.0350	-.10	2.53	.0	.7	3.08
25	1.615	1138.46	4.80	10837.	6469.	7166.	52.048	.0350	-.10	2.82	.0	.7	3.46
33	1.900	1128.71	4.71	12217.	7765.	8625.	57.490	.0350	-.10	2.87	.0	.7	3.71
41	2.673	1101.32	4.92	14888.	8482.	9361.	73.207	.0350	-.10	2.56	.0	.7	2.99
49	3.216	1080.15	6.06	13495.	5460.	5473.	81.730	.0350	-.30	3.97	.0	.7	4.67
57	3.345	1076.00	6.12	13483.	5395.	5527.	82.573	.0350	-.30	3.92	.0	.7	4.64
65	3.473	1071.84	6.14	13557.	5407.	5672.	83.181	.0350	-.30	3.86	.0	.7	4.60
73	3.602	1067.69	6.05	13864.	5669.	6087.	83.827	.0350	-.30	3.80	.0	.7	4.57
81	3.730	1063.57	5.70	14685.	6333.	6952.	83.769	.0350	-.50	3.46	.0	.7	4.57
89	4.250	1047.48	4.89	12370.	8100.	9000.	60.482	.0350	-1.00	2.53	.0	.7	3.48
97	5.053	1021.88	2.29	224.	325.	1122.	.512	.0350	-1.00	.00	.0	.5	1.38
105	5.500	1010.71	2.19	228.	640.	640.	.500	.0350	-.50	.01	.0	.6	.71
113	7.500	956.12	1.74	292.	936.	1043.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	573.	1558.	1558.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

```
FRDM=    1.00  IIFR=  119  FRM= .09 IIFM=    1
```

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	6	5.400	33542.6	1196.39	1185.10	1189.71	1.00	275.0	33542.6	33542.6	.0	.0
104	6	5.400	500.0	1013.33	1030.00	1010.71	1.00	.0	33542.6	.0	.0	500.0

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

```
TT =   5.5000          DTH =   .1000          ITERR =   8
QU(1) =   30036.01     YU(1) =    1195.60  QU(N) =     508.86  YU(N) =     885.51
```

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1195.60	1.51	19956.	2500.	2500.	30.036	.0350	-.70	3.68	262.7	.1	10.50
9	.340	1176.77	5.82	5485.	2485.	2576.	31.942	.0350	-.30	3.84	.0	.7	4.77
17	1.330	1147.95	4.62	9125.	5767.	6360.	42.173	.0350	-.10	2.40	.0	.6	2.95
25	1.615	1138.30	4.65	9856.	6170.	6830.	45.836	.0350	-.10	2.66	.0	.6	3.30
33	1.900	1128.55	4.56	11054.	7372.	8185.	50.432	.0350	-.10	2.72	.0	.7	3.55
41	2.673	1101.18	4.76	13728.	8187.	9036.	65.378	.0350	-.10	2.42	.0	.6	2.85
49	3.216	1079.99	5.86	12633.	5348.	5360.	74.054	.0350	-.30	3.81	.0	.7	4.51
57	3.345	1075.86	5.96	12760.	5298.	5424.	76.022	.0350	-.30	3.79	.0	.7	4.50

65	3.473	1071.71	6.05	12875.	5236.	5492.	77.849	.0350	-.30	3.74	.0	.7	4.47
73	3.602	1067.58	6.00	13272.	5461.	5866.	79.565	.0350	-.30	3.69	.0	.7	4.46
81	3.730	1063.53	5.64	14399.	6248.	6855.	81.200	.0350	-.50	3.42	.0	.7	4.53
89	4.250	1048.00	5.17	16558.	8100.	9000.	85.632	.0350	-1.00	3.05	.0	.6	4.00
97	5.053	1022.25	3.00	360.	412.	1422.	1.079	.0350	-1.00	.37	.0	.6	1.75
105	5.500	1010.71	2.29	226.	637.	637.	.516	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	293.	937.	1044.	.510	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	573.	1558.	1558.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .09 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	8	5.500	30036.0	1195.60	1185.10	1189.54	1.00	275.0	30036.0	30036.0	.0	.0
104	8	5.500	516.2	1013.31	1030.00	1010.71	1.00	.0	30036.0	.0	.0	516.2

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 5.6000 DTH = .1000 ITERR = 4
QU(1) = 27215.03 YU(1) = 1194.94 QU(N) = 508.63 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1194.94	1.49	18312.	2500.	2500.	27.215	.0350	-.70	3.02	236.6	.1	9.84
9	.340	1176.60	5.68	5075.	2392.	2479.	28.810	.0350	-.30	3.68	.0	.7	4.60
17	1.330	1147.82	4.48	8415.	5567.	6140.	37.674	.0350	-.10	2.27	.0	.6	2.82
25	1.615	1138.17	4.52	9041.	5911.	6539.	40.862	.0350	-.10	2.53	.0	.6	3.17
33	1.900	1128.42	4.43	10094.	7030.	7803.	44.739	.0350	-.10	2.58	.0	.7	3.42
41	2.673	1101.04	4.60	12560.	7879.	8697.	57.715	.0350	-.10	2.27	.0	.6	2.70
49	3.216	1079.81	5.66	11695.	5223.	5234.	66.213	.0350	-.30	3.63	.0	.7	4.33
57	3.345	1075.68	5.75	11806.	5168.	5286.	67.916	.0350	-.30	3.60	.0	.7	4.32
65	3.473	1071.53	5.86	11919.	5102.	5346.	69.787	.0350	-.30	3.55	.0	.7	4.28
73	3.602	1067.37	5.94	12146.	5041.	5421.	72.120	.0350	-.30	3.48	.0	.7	4.25
81	3.730	1063.36	5.59	13377.	5803.	6374.	74.756	.0350	-.50	3.25	.0	.6	4.36
89	4.250	1047.89	5.14	15683.	8100.	9000.	80.681	.0350	-1.00	2.94	.0	.7	3.89
97	5.053	1024.96	5.19	3903.	2244.	4294.	20.250	.0350	-1.00	3.08	.0	.7	4.45
105	5.500	1010.71	2.23	224.	636.	636.	.500	.0350	-.50	.00	.0	.7	.71
113	7.500	956.12	1.74	292.	936.	1043.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	573.	1558.	1558.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .10 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	4	5.600	27215.0	1194.94	1185.10	1189.39	1.00	275.0	27215.0	27215.0	.0	.0
104	4	5.600	500.0	1013.33	1030.00	1010.71	1.00	.0	27215.0	.0	.0	500.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 5.7000 DTH = .1000 ITERR = 5

QU(1) = 24909.51 YU(1) = 1194.39 QU(N) = 508.76 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1194.39	1.47	16923.	2500.	2500.	24.910	.0350	-.70	2.47	215.4	.1	9.29
9	.340	1176.46	5.55	4736.	2311.	2397.	26.274	.0350	-.30	3.53	.0	.7	4.46
17	1.330	1147.70	4.35	7767.	5378.	5933.	33.754	.0350	-.10	2.15	.0	.6	2.70
25	1.615	1138.05	4.40	8339.	5678.	6277.	36.677	.0350	-.10	2.41	.0	.6	3.05
33	1.900	1128.30	4.32	9268.	6723.	7459.	39.993	.0350	-.10	2.46	.0	.6	3.30
41	2.673	1100.90	4.44	11490.	7585.	8374.	50.964	.0350	-.10	2.13	.0	.6	2.57
49	3.216	1079.64	5.46	10805.	5102.	5111.	58.944	.0350	-.30	3.46	.0	.7	4.16
57	3.345	1075.51	5.55	10918.	5043.	5153.	60.628	.0350	-.30	3.43	.0	.7	4.15
65	3.473	1071.35	5.66	11013.	4972.	5204.	62.291	.0350	-.30	3.37	.0	.7	4.10
73	3.602	1067.15	5.77	11085.	4881.	5243.	63.938	.0350	-.30	3.27	.0	.7	4.03
81	3.730	1063.10	5.56	11979.	5095.	5615.	66.613	.0350	-.50	2.99	.0	.6	4.10
89	4.250	1047.79	5.09	14831.	8100.	9000.	75.514	.0350	-1.00	2.84	.0	.7	3.79
97	5.053	1027.25	6.17	10759.	3701.	6588.	66.377	.0350	-1.00	5.37	.0	.6	6.74
105	5.500	1010.72	2.27	231.	644.	644.	.524	.0350	-.50	.01	.0	.7	.72
113	7.500	956.12	1.74	293.	937.	1044.	.511	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	573.	1558.	1558.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.01 IIFR= 102 FRM= .10 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	5	5.700	24909.5	1194.39	1185.10	1189.25	1.00	275.0	24909.5	24909.5	.0	.0
104	5	5.700	524.4	1013.32	1030.00	1010.72	1.00	.0	24909.5	.0	.0	524.4

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 5.8000 DTH = .1000 ITERR = 4

QU(1) = 22994.56 YU(1) = 1193.91 QU(N) = 508.69 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1193.91	1.46	15734.	2500.	2500.	22.995	.0350	-.70	1.99	198.0	.1	8.81
9	.340	1176.33	5.43	4444.	2240.	2323.	24.146	.0350	-.30	3.40	.0	.7	4.33
17	1.330	1147.60	4.23	7212.	5210.	5750.	30.489	.0350	-.10	2.05	.0	.6	2.60
25	1.615	1137.93	4.28	7710.	5461.	6033.	33.030	.0350	-.10	2.29	.0	.6	2.93
33	1.900	1128.19	4.21	8557.	6447.	7150.	36.010	.0350	-.10	2.36	.0	.6	3.19
41	2.673	1100.78	4.29	10576.	7326.	8087.	45.412	.0350	-.10	2.01	.0	.6	2.44
49	3.216	1079.47	5.25	9955.	4984.	4992.	52.248	.0350	-.30	3.29	.0	.7	3.99
57	3.345	1075.34	5.35	10066.	4921.	5023.	53.833	.0350	-.30	3.26	.0	.7	3.97
65	3.473	1071.17	5.46	10167.	4847.	5069.	55.479	.0350	-.30	3.20	.0	.7	3.93
73	3.602	1066.98	5.58	10248.	4754.	5103.	57.159	.0350	-.30	3.09	.0	.7	3.86
81	3.730	1062.86	5.43	10811.	4717.	5204.	58.671	.0353	-.50	2.75	.0	.6	3.86
89	4.250	1047.68	4.87	13930.	8100.	9000.	67.906	.0350	-1.00	2.73	.0	.7	3.68
97	5.053	1028.07	5.69	14014.	4183.	7351.	79.783	.0350	-1.00	6.19	.0	.5	7.57
105	5.500	1011.61	3.03	1169.	1451.	1451.	3.541	.0350	-.50	.91	.0	.6	1.61

113	7.500	956.12	1.74	293.	937.	1044.	.509	.0350	.00	.00	.0	.5	.62
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	573.	1558.	1558.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.508	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.35 IIFR= 103 FRM= .10 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	4	5.800	22994.6	1193.91	1185.10	1189.14	1.00	275.0	22994.6	22994.6	.0	.0
104	4	5.800	3541.1	1015.61	1030.00	1011.61	1.00	.0	22994.6	.0	.0	3541.1

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 5.9000 DTH = .1000 ITERR = 4
QU(1) = 21380.95 YU(1) = 1193.50 QU(N) = 508.73 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1193.50	1.45	14704.	2500.	2500.	21.381	.0350	-.70	1.58	183.4	.1	8.40
9	.340	1176.22	5.33	4197.	2177.	2258.	22.374	.0350	-.30	3.29	.0	.7	4.22
17	1.330	1147.51	4.12	6743.	5064.	5590.	27.795	.0350	-.10	1.96	.0	.6	2.51
25	1.615	1137.83	4.18	7164.	5265.	5814.	29.954	.0350	-.10	2.19	.0	.6	2.83
33	1.900	1128.09	4.11	7925.	6190.	6863.	32.556	.0350	-.10	2.26	.0	.6	3.09
41	2.673	1100.67	4.17	9795.	7096.	7835.	40.813	.0350	-.10	1.90	.0	.6	2.33
49	3.216	1079.32	5.07	9215.	4835.	4843.	46.730	.0350	-.30	3.14	.0	.6	3.84
57	3.345	1075.18	5.16	9309.	4809.	4905.	48.030	.0350	-.30	3.10	.0	.7	3.82
65	3.473	1071.01	5.26	9390.	4730.	4941.	49.423	.0350	-.30	3.04	.0	.7	3.77
73	3.602	1066.81	5.38	9459.	4632.	4968.	50.918	.0350	-.30	2.92	.0	.7	3.69
81	3.730	1062.71	5.20	10103.	4606.	5080.	52.519	.0359	-.50	2.60	.0	.6	3.71
89	4.250	1047.55	4.68	12865.	8100.	9000.	60.164	.0350	-1.00	2.59	.0	.7	3.55
97	5.053	1028.07	5.16	14020.	4183.	7352.	72.311	.0350	-1.00	6.19	.0	.5	7.57
105	5.500	1013.03	4.60	4132.	2712.	2712.	19.008	.0350	-.50	2.32	.0	.7	3.03
113	7.500	956.13	1.74	293.	938.	1045.	.511	.0350	.00	.00	.0	.5	.63
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	573.	1558.	1558.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.509	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .11 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	4	5.900	21381.0	1193.50	1185.10	1189.03	1.00	275.0	21381.0	21381.0	.0	.0
104	4	5.900	19007.9	1021.81	1030.00	1013.03	1.00	.0	21381.0	.0	.0	19007.9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

NONCONVERGENCE OCCURRED AT CROSS-SECTION NO. 107 108 109 110 111 112 113 114

TT= 5.9000 DTH= .1000 ITERR= 9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 5.9500 DTH = .0500 ITERR = 2
QU(1) = 20666.18 YU(1) = 1193.31 QU(N) = 508.96 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1193.31	1.45	14238.	2500.	2500.	20.666	.0350	-.70	1.39	86.9	.1	8.21
9	.340	1176.17	5.28	4086.	2149.	2229.	21.597	.0350	-.30	3.24	.0	.7	4.17
17	1.330	1147.47	4.07	6535.	4997.	5518.	26.620	.0350	-.10	1.92	.0	.6	2.47
25	1.615	1137.79	4.13	6922.	5175.	5713.	28.611	.0350	-.10	2.14	.0	.6	2.79
33	1.900	1128.04	4.06	7636.	6070.	6728.	31.006	.0350	-.10	2.21	.0	.6	3.04
41	2.673	1100.62	4.11	9443.	6990.	7718.	38.773	.0350	-.10	1.85	.0	.6	2.28
49	3.216	1079.25	4.99	8864.	4742.	4749.	44.274	.0350	-.30	3.06	.0	.6	3.76
57	3.345	1075.11	5.07	8975.	4759.	4852.	45.522	.0350	-.30	3.03	.0	.7	3.75
65	3.473	1070.94	5.17	9044.	4676.	4883.	46.799	.0350	-.30	2.96	.0	.7	3.70
73	3.602	1066.73	5.29	9099.	4575.	4905.	48.146	.0350	-.30	2.85	.0	.7	3.61
81	3.730	1062.64	5.07	9777.	4554.	5022.	49.590	.0361	-.50	2.53	.0	.6	3.64
89	4.250	1047.49	4.56	12409.	8100.	9000.	56.602	.0350	-1.00	2.54	.0	.6	3.49
97	5.053	1028.03	5.09	13858.	4161.	7316.	70.535	.0350	-1.00	6.16	.0	.5	7.53
105	5.500	1013.79	5.51	6319.	3017.	3017.	34.794	.0350	-.50	3.09	.0	.7	3.79
113	7.500	956.13	1.75	295.	941.	1048.	.515	.0350	.00	.01	.0	.5	.63
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	573.	1558.	1558.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.509	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .11 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.950	20666.2	1193.31	1185.10	1188.98	1.00	275.0	20666.2	20666.2	.0	.0
104	2	5.950	34793.9	1023.10	1030.00	1013.79	1.00	.0	20666.2	.0	.0	34793.9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 6.0000 DTH = .0500 ITERR = 2
QU(1) = 20000.56 YU(1) = 1193.14 QU(N) = 508.92 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1193.14	1.45	13800.	2500.	2500.	20.001	.0350	-.70	1.22	84.0	.1	8.04
9	.340	1176.12	5.24	3984.	2122.	2202.	20.880	.0350	-.30	3.19	.0	.7	4.12
17	1.330	1147.43	4.03	6341.	4935.	5449.	25.539	.0350	-.10	1.88	.0	.6	2.43
25	1.615	1137.74	4.09	6698.	5092.	5619.	27.388	.0350	-.10	2.10	.0	.6	2.74
33	1.900	1128.00	4.02	7369.	5956.	6600.	29.594	.0350	-.10	2.16	.0	.6	3.00
41	2.673	1100.57	4.05	9112.	6889.	7607.	36.878	.0350	-.10	1.81	.0	.6	2.24
49	3.216	1079.18	4.93	8527.	4650.	4657.	42.008	.0350	-.30	2.99	.0	.6	3.69
57	3.345	1075.05	4.99	8660.	4711.	4801.	43.188	.0350	-.30	2.97	.0	.6	3.68
65	3.473	1070.87	5.09	8723.	4626.	4828.	44.396	.0350	-.30	2.89	.0	.7	3.63
73	3.602	1066.66	5.21	8770.	4522.	4846.	45.657	.0350	-.30	2.77	.0	.7	3.54
81	3.730	1062.57	4.96	9461.	4503.	4965.	46.959	.0363	-.50	2.46	.0	.6	3.57
89	4.250	1047.43	4.46	11954.	8100.	9000.	53.311	.0350	-1.00	2.48	.0	.6	3.43

97	5.053	1027.98	4.96	13626.	4128.	7265.	67.634	.0350	-1.00	6.10	.0	.5	7.47
105	5.500	1014.10	5.79	7268.	3141.	3141.	42.085	.0350	-.50	3.40	.0	.7	4.10
113	7.500	956.13	1.75	295.	941.	1048.	.515	.0350	.00	.01	.0	.5	.63
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	573.	1558.	1558.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.509	.0350	.00	.00	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .11 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	6.000	20000.6	1193.14	1185.10	1188.94	1.00	275.0	20000.6	20000.6	.0	.0
104	2	6.000	42085.4	1023.69	1030.00	1014.10	1.00	.0	20000.6	.0	.0	42085.4

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 6.1000 DTH = .1000 ITERR = 5
QU(1) = 18809.45 YU(1) = 1192.82 QU(N) = 508.65 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1192.82	1.45	13003.	2500.	2500.	18.809	.0350	-.70	.90	160.4	.1	7.72
9	.340	1176.03	5.16	3798.	2072.	2150.	19.590	.0350	-.30	3.10	.0	.7	4.03
17	1.330	1147.36	3.94	5996.	4822.	5325.	23.640	.0350	-.10	1.81	.0	.6	2.36
25	1.615	1137.66	4.01	6300.	4939.	5448.	25.243	.0350	-.10	2.02	.0	.6	2.66
33	1.900	1127.92	3.93	6897.	5750.	6370.	27.139	.0350	-.10	2.08	.0	.6	2.92
41	2.673	1100.48	3.94	8512.	6702.	7400.	33.499	.0350	-.10	1.72	.0	.6	2.15
49	3.216	1079.04	4.80	7919.	4480.	4486.	38.029	.0350	-.30	2.86	.0	.6	3.56
57	3.345	1074.92	4.83	8091.	4624.	4708.	39.072	.0350	-.30	2.85	.0	.6	3.56
65	3.473	1070.74	4.93	8141.	4534.	4728.	40.130	.0350	-.30	2.77	.0	.6	3.50
73	3.602	1066.53	5.04	8176.	4426.	4740.	41.239	.0350	-.30	2.64	.0	.7	3.41
81	3.730	1062.44	4.77	8894.	4410.	4861.	42.412	.0368	-.50	2.33	.0	.6	3.44
89	4.250	1047.34	4.27	11214.	8100.	9000.	47.889	.0350	-1.00	2.39	.0	.6	3.34
97	5.053	1027.82	4.70	12980.	4036.	7118.	61.007	.0350	-1.00	5.94	.0	.5	7.32
105	5.500	1014.40	6.24	8227.	3261.	3261.	51.363	.0350	-.50	3.70	.0	.7	4.40
113	7.500	956.17	1.78	334.	1000.	1115.	.594	.0350	.00	.05	.0	.5	.67
121	8.650	923.96	2.84	179.	684.	755.	.509	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	573.	1558.	1558.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.509	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= 1.00 IIFR= 119 FRM= .11 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	5	6.100	18809.5	1192.82	1185.10	1188.85	1.00	275.0	18809.5	18809.5	.0	.0
104	5	6.100	51363.3	1024.29	1030.00	1014.40	1.00	.0	18809.5	.0	.0	51363.3

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

NONCONVERGENCE OCCURRED AT CROSS-SECTION NO. 106 107 108 109 110 111 112 113 114
TT= 6.1000 DTH= .1000 ITERR= 9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145
NONCONVERGENCE OCCURRED AT CROSS-SECTION NO. 108 109 110 111 112 113 114
TT= 6.1000 DTH= .0500 ITERR= 9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 6.1125 DTH = .0125 ITERR = 1
QU(1) = 18673.65 YU(1) = 1192.78 QU(N) = 509.30 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1192.78	1.45	12911.	2500.	2500.	18.674	.0350	-.70	.86	19.4	.1	7.68
9	.340	1176.02	5.15	3775.	2066.	2144.	19.438	.0350	-.30	3.09	.0	.7	4.02
17	1.330	1147.35	3.93	5956.	4809.	5311.	23.422	.0350	-.10	1.80	.0	.6	2.35
25	1.615	1137.65	4.00	6254.	4921.	5427.	24.996	.0350	-.10	2.01	.0	.6	2.65
33	1.900	1127.91	3.93	6842.	5725.	6342.	26.859	.0350	-.10	2.07	.0	.6	2.91
41	2.673	1100.47	3.92	8441.	6679.	7376.	33.103	.0350	-.10	1.71	.0	.6	2.14
49	3.216	1079.03	4.79	7846.	4459.	4466.	37.563	.0350	-.30	2.84	.0	.6	3.54
57	3.345	1074.91	4.81	8024.	4614.	4697.	38.599	.0350	-.30	2.83	.0	.6	3.55
65	3.473	1070.73	4.91	8073.	4524.	4716.	39.637	.0350	-.30	2.75	.0	.6	3.49
73	3.602	1066.51	5.02	8107.	4414.	4727.	40.731	.0350	-.30	2.63	.0	.7	3.39
81	3.730	1062.42	4.74	8830.	4399.	4849.	41.867	.0368	-.50	2.32	.0	.6	3.42
89	4.250	1047.33	4.25	11123.	8100.	9000.	47.287	.0350	-1.00	2.38	.0	.6	3.33
97	5.053	1027.80	4.67	12899.	4024.	7100.	60.210	.0350	-1.00	5.92	.0	.5	7.30
105	5.500	1014.43	6.25	8318.	3272.	3272.	51.962	.0350	-.50	3.72	.0	.7	4.43
113	7.500	956.22	1.93	393.	1086.	1211.	.760	.0350	.00	.10	.0	.6	.72
121	8.650	923.96	2.84	181.	687.	758.	.514	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	574.	1559.	1559.	.510	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.509	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.01	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .11 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.112	18673.6	1192.78	1185.10	1188.84	1.00	275.0	18673.6	18673.6	.0	.0
104	1	6.112	51961.8	1024.32	1030.00	1014.43	1.00	.0	18673.6	.0	.0	51961.7

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145
NONCONVERGENCE OCCURRED AT CROSS-SECTION NO. 105 107 108 109 110 111 112 113 114
TT= 6.1125 DTH= .0875 ITERR= 9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145
NONCONVERGENCE OCCURRED AT CROSS-SECTION NO. 110 111 112 113 114 115
TT= 6.1125 DTH= .0437 ITERR= 9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 6.1234 DTH = .0109 ITERR = 1
QU(1) = 18556.67 YU(1) = 1192.75 QU(N) = 509.40 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1192.75	1.45	12831.	2500.	2500.	18.557	.0350	-.70	.83	16.8	.1	7.65
9	.340	1176.01	5.14	3756.	2061.	2139.	19.308	.0350	-.30	3.08	.0	.7	4.01
17	1.330	1147.34	3.92	5922.	4797.	5298.	23.236	.0350	-.10	1.79	.0	.6	2.34
25	1.615	1137.65	3.99	6214.	4905.	5410.	24.783	.0350	-.10	2.00	.0	.6	2.65
33	1.900	1127.90	3.92	6796.	5704.	6319.	26.618	.0350	-.10	2.07	.0	.6	2.90
41	2.673	1100.46	3.91	8380.	6660.	7354.	32.767	.0350	-.10	1.70	.0	.6	2.13
49	3.216	1079.01	4.77	7784.	4441.	4448.	37.167	.0350	-.30	2.83	.0	.6	3.53
57	3.345	1074.90	4.79	7967.	4605.	4688.	38.190	.0350	-.30	2.82	.0	.6	3.53
65	3.473	1070.71	4.89	8014.	4514.	4706.	39.215	.0350	-.30	2.74	.0	.6	3.47
73	3.602	1066.50	5.01	8046.	4404.	4716.	40.292	.0350	-.30	2.61	.0	.7	3.38
81	3.730	1062.41	4.72	8771.	4389.	4838.	41.422	.0369	-.50	2.30	.0	.6	3.41
89	4.250	1047.32	4.23	11047.	8100.	9000.	46.760	.0350	-1.00	2.37	.0	.6	3.32
97	5.053	1027.78	4.64	12832.	4014.	7084.	59.494	.0350	-1.00	5.90	.0	.5	7.28
105	5.500	1014.46	6.25	8406.	3282.	3282.	52.501	.0350	-.50	3.75	.0	.7	4.46
113	7.500	956.29	1.97	467.	1183.	1318.	.917	.0350	.00	.17	.0	.6	.79
121	8.650	923.96	2.83	179.	684.	755.	.508	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	573.	1558.	1558.	.507	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.509	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.01	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .11 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.123	18556.7	1192.75	1185.10	1188.84	1.00	275.0	18556.7	18556.7	.0	.0
104	1	6.123	52501.3	1024.35	1030.00	1014.46	1.00	.0	18556.7	.0	.0	52501.3

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 6.2000 DTH = .0766 ITERR = 4
QU(1) = 17785.24 YU(1) = 1192.54 QU(N) = 508.69 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1192.54	1.45	12302.	2500.	2500.	17.785	.0350	-.70	.62	115.0	.1	7.44
9	.340	1175.95	5.08	3632.	2027.	2104.	18.463	.0350	-.30	3.02	.0	.7	3.95
17	1.330	1147.29	3.87	5697.	4722.	5216.	22.026	.0350	-.10	1.74	.0	.6	2.29
25	1.615	1137.59	3.93	5953.	4802.	5294.	23.411	.0350	-.10	1.95	.0	.6	2.59
33	1.900	1127.85	3.86	6489.	5565.	6163.	25.058	.0350	-.10	2.01	.0	.6	2.85
41	2.673	1100.40	3.83	7977.	6530.	7212.	30.562	.0350	-.10	1.64	.0	.6	2.07
49	3.216	1078.92	4.69	7378.	4323.	4329.	34.602	.0350	-.30	2.74	.0	.6	3.44
57	3.345	1074.81	4.68	7589.	4546.	4625.	35.541	.0350	-.30	2.74	.0	.6	3.45
65	3.473	1070.63	4.78	7628.	4452.	4638.	36.470	.0350	-.30	2.65	.0	.6	3.39
73	3.602	1066.41	4.89	7652.	4338.	4643.	37.444	.0350	-.30	2.52	.0	.6	3.29

81	3.730	1062.32	4.59	8388.	4325.	4767.	38.469	.0372	-.50	2.21	.0	.6	3.32
89	4.250	1047.26	4.11	10532.	8100.	9000.	43.299	.0350	-1.00	2.31	.0	.6	3.26
97	5.053	1027.67	4.43	12378.	3948.	6979.	54.822	.0350	-1.00	5.79	.0	.4	7.16
105	5.500	1014.54	6.27	8685.	3316.	3316.	54.492	.0350	-.50	3.84	.0	.7	4.54
113	7.500	956.21	1.63	375.	1060.	1181.	.611	.0350	.00	.09	.0	.5	.71
121	8.650	923.96	2.85	178.	682.	753.	.508	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	574.	1559.	1559.	.511	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.509	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .99 IIFR= 119 FRM= .11 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	4	6.200	17785.2	1192.54	1185.10	1188.78	1.00	275.0	17785.2	17785.2	.0	.0
104	4	6.200	54492.1	1024.45	1030.00	1014.54	1.00	.0	17785.2	.0	.0	54492.1

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
                                  NONCONVERGENCE OCCURRED AT CROSS-SECTION NO.    110  111  112  113  114  116  117  118  119
                                                    TT=    6.2000     DTH=     .1000     ITERR= 9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
                                  NONCONVERGENCE OCCURRED AT CROSS-SECTION NO.    108  109  110  111  112  113  114  115  116
                                                    TT=    6.2000     DTH=     .0500     ITERR= 9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 6.2125 DTH = .0125 ITERR = 1
QU(1) = 17666.57 YU(1) = 1192.51 QU(N) = 509.44 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1192.51	1.45	12221.	2500.	2500.	17.667	.0350	-.70	.58	18.3	.1	7.41
9	.340	1175.94	5.07	3613.	2022.	2098.	18.334	.0350	-.30	3.01	.0	.7	3.94
17	1.330	1147.29	3.86	5663.	4710.	5203.	21.841	.0350	-.10	1.74	.0	.6	2.29
25	1.615	1137.58	3.92	5913.	4786.	5276.	23.200	.0350	-.10	1.94	.0	.6	2.58
33	1.900	1127.84	3.85	6442.	5543.	6139.	24.819	.0350	-.10	2.00	.0	.6	2.84
41	2.673	1100.39	3.82	7914.	6510.	7189.	30.224	.0350	-.10	1.63	.0	.6	2.06
49	3.216	1078.91	4.68	7316.	4304.	4311.	34.210	.0350	-.30	2.72	.0	.6	3.42
57	3.345	1074.80	4.67	7531.	4537.	4615.	35.135	.0350	-.30	2.72	.0	.6	3.44
65	3.473	1070.62	4.76	7568.	4442.	4627.	36.049	.0350	-.30	2.64	.0	.6	3.37
73	3.602	1066.39	4.88	7590.	4328.	4632.	37.008	.0350	-.30	2.51	.0	.6	3.27
81	3.730	1062.31	4.56	8328.	4315.	4755.	38.015	.0373	-.50	2.20	.0	.6	3.31
89	4.250	1047.25	4.09	10452.	8100.	9000.	42.765	.0350	-1.00	2.30	.0	.6	3.25
97	5.053	1027.65	4.39	12313.	3938.	6964.	54.081	.0350	-1.00	5.77	.0	.4	7.15
105	5.500	1014.53	6.31	8663.	3314.	3314.	54.652	.0350	-.50	3.83	.0	.7	4.53
113	7.500	956.17	1.65	335.	1002.	1116.	.552	.0350	.00	.05	.0	.5	.67
121	8.650	923.96	2.83	184.	691.	762.	.522	.0350	.00	.01	.0	1.0	.36
129	10.250	894.56	.89	574.	1560.	1560.	.511	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.509	.0350	.00	.01	.0	.3	.56

```
145    11.250   885.51      1.01      506.     1170.     1170.        .509    .0350       .00       .00      .0      .3       .51
       FRDM=     .97  IIFR=  119  FRM= .12 IIFM=    1


       RESERVOIR OUTFLOW INFORMATION
     I    K        TT      Q(I)        H2        YB         D       SUB        BB     QU(1)    QBRECH    QOVTOP     QOTHR
     1    1     6.212   17666.6   1192.51   1185.10   1188.77      1.00     275.0   17666.6   17666.6        .0        .0
   104    1     6.212   54651.8   1024.46   1030.00   1014.53      1.00        .0   17666.6        .0        .0   54651.8


       IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
       IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
       IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 L=    1     KSP=  0     KS1=  1     KSN=145
                                   NONCONVERGENCE OCCURRED AT CROSS-SECTION NO.    110  111  112  113  114  115  117
                                                   TT=    6.2125     DTH=     .0875     ITERR= 9


       IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
       IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
       IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 L=    1     KSP=  0     KS1=  1     KSN=145
                                   NONCONVERGENCE OCCURRED AT CROSS-SECTION NO.    109  110  111  112  113  114  115  116  117
                                                   TT=    6.2125     DTH=     .0437     ITERR= 9


       IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
       IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
       IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 L=    1     KSP=  0     KS1=  1     KSN=145


       TT =   6.2234          DTH =   .0109          ITERR =   1
       QU(1) =   17564.60     YU(1) =    1192.48  QU(N) =     509.45  YU(N) =     885.51

  I      X(I)       Y          V          A          B          BT         Q          CMM        FKC       WAVHT     DISV    FRD     DEPTH
****   ******* *********  *******  ********  ********  *******  *********  ********  *******  *******  ******  ******  ********
  1      .000  1192.48      1.45     12150.     2500.     2500.     17.565    .0350     -.70       .56    15.9      .1      7.38
  9      .340  1175.93      5.07      3596.     2017.     2094.     18.222    .0350     -.30      3.01      .0      .7      3.93
 17     1.330  1147.28      3.85      5633.     4700.     5192.     21.683    .0350     -.10      1.73      .0      .6      2.28
 25     1.615  1137.58      3.92      5878.     4772.     5260.     23.021    .0350     -.10      1.93      .0      .6      2.58
 33     1.900  1127.83      3.85      6401.     5524.     6117.     24.615    .0350     -.10      2.00      .0      .6      2.83
 41     2.673  1100.38      3.81      7859.     6492.     7169.     29.932    .0350     -.10      1.62      .0      .6      2.05
 49     3.216  1078.89      4.66      7262.     4288.     4295.     33.873    .0350     -.30      2.71      .0      .6      3.41
 57     3.345  1074.79      4.65      7481.     4529.     4607.     34.789    .0350     -.30      2.71      .0      .6      3.43
 65     3.473  1070.60      4.75      7516.     4434.     4618.     35.687    .0350     -.30      2.63      .0      .6      3.36
 73     3.602  1066.38      4.86      7537.     4319.     4622.     36.632    .0350     -.30      2.50      .0      .6      3.26
 81     3.730  1062.30      4.55      8276.     4306.     4745.     37.628    .0373     -.50      2.19      .0      .6      3.30
 89     4.250  1047.24      4.08     10384.     8100.     9000.     42.322    .0350    -1.00      2.29      .0      .6      3.24
 97     5.053  1027.63      4.39     12229.     3925.     6944.     53.655    .0350    -1.00      5.75      .0      .4      7.13
105     5.500  1014.52      6.34      8632.     3310.     3310.     54.716    .0350     -.50      3.82      .0      .7      4.52
113     7.500   956.18      1.79       348.     1022.     1139.       .623    .0350      .00       .06      .0      .5       .68
121     8.650   923.97      2.81       185.      692.      764.       .520    .0350      .00       .01      .0     1.0       .37
129    10.250   894.56       .88       572.     1557.     1557.       .506    .0350      .00       .00      .0      .3       .56
137    10.750   890.06      1.01       504.     1160.     1160.       .509    .0350      .00       .01      .0      .3       .56
145    11.250   885.51      1.01       506.     1170.     1170.       .509    .0350      .00       .00      .0      .3       .51
       FRDM=     .96  IIFR=  121  FRM= .12 IIFM=    1


       RESERVOIR OUTFLOW INFORMATION
     I    K        TT      Q(I)        H2        YB         D       SUB        BB     QU(1)    QBRECH    QOVTOP     QOTHR
     1    1     6.223   17564.6   1192.48   1185.10   1188.76      1.00     275.0   17564.6   17564.6        .0        .0
```

104	1	6.223	54716.4	1024.46	1030.00	1014.52	1.00	.0	17564.6	.0	.0	54716.4

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 6.3000 DTH = .0766 ITERR = 4
QU(1) = 16881.19 YU(1) = 1192.29 QU(N) = 508.79 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1192.29	1.45	11673.	2500.	2500.	16.881	.0350	-.70	.36	109.0	.1	7.19
9	.340	1175.88	5.02	3487.	1987.	2062.	17.490	.0350	-.30	2.95	.0	.7	3.88
17	1.330	1147.24	3.80	5437.	4632.	5118.	20.641	.0350	-.10	1.69	.0	.6	2.24
25	1.615	1137.53	3.87	5652.	4680.	5157.	21.851	.0350	-.10	1.89	.0	.6	2.53
33	1.900	1127.78	3.80	6135.	5400.	5978.	23.283	.0350	-.10	1.95	.0	.6	2.78
41	2.673	1100.33	3.74	7507.	6376.	7041.	28.056	.0350	-.10	1.56	.0	.6	1.99
49	3.216	1078.81	4.58	6900.	4179.	4185.	31.632	.0350	-.30	2.62	.0	.6	3.32
57	3.345	1074.72	4.55	7145.	4475.	4550.	32.492	.0350	-.30	2.64	.0	.6	3.35
65	3.473	1070.53	4.64	7175.	4378.	4557.	33.321	.0350	-.30	2.55	.0	.6	3.28
73	3.602	1066.30	4.75	7189.	4260.	4556.	34.184	.0350	-.30	2.41	.0	.6	3.18
81	3.730	1062.22	4.42	7932.	4247.	4680.	35.090	.0376	-.50	2.11	.0	.6	3.22
89	4.250	1047.18	3.97	9941.	8100.	9000.	39.439	.0350	-1.00	2.23	.0	.6	3.18
97	5.053	1027.50	4.25	11720.	3849.	6823.	49.785	.0350	-1.00	5.62	.0	.4	7.00
105	5.500	1014.44	6.51	8357.	3277.	3277.	54.376	.0350	-.50	3.74	.0	.7	4.44
113	7.500	956.65	2.29	1000.	1732.	1930.	2.287	.0350	.00	.53	.0	.5	1.15
121	8.650	923.96	2.84	180.	685.	755.	.511	.0350	.00	.00	.0	1.0	.36
129	10.250	894.56	.89	574.	1559.	1559.	.511	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1160.	1160.	.509	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .98 IIFR= 119 FRM= .12 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	4	6.300	16881.2	1192.29	1185.10	1188.71	1.00	275.0	16881.2	16881.2	.0	.0
104	4	6.300	54375.7	1024.44	1030.00	1014.44	1.00	.0	16881.2	.0	.0	54375.7

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 6.4000 DTH = .1000 ITERR = 4
QU(1) = 16056.24 YU(1) = 1192.05 QU(N) = 509.04 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1192.05	1.45	11087.	2500.	2500.	16.056	.0350	-.70	.13	136.1	.1	6.95
9	.340	1175.81	4.95	3356.	1949.	2024.	16.621	.0350	-.30	2.88	.0	.7	3.81
17	1.330	1147.19	3.73	5206.	4552.	5030.	19.432	.0350	-.10	1.64	.0	.6	2.19
25	1.615	1137.47	3.81	5390.	4573.	5038.	20.509	.0350	-.10	1.83	.0	.6	2.47
33	1.900	1127.72	3.74	5826.	5251.	5812.	21.767	.0350	-.10	1.89	.0	.6	2.72
41	2.673	1100.26	3.65	7100.	6239.	6891.	25.932	.0350	-.10	1.50	.0	.6	1.93
49	3.216	1078.71	4.49	6474.	4047.	4053.	29.058	.0350	-.30	2.52	.0	.6	3.22
57	3.345	1074.63	4.42	6748.	4411.	4482.	29.833	.0350	-.30	2.55	.0	.6	3.26

65	3.473	1070.43	4.52	6770.	4310.	4484.	30.576	.0350	-.30	2.46	.0	.6	3.19
73	3.602	1066.20	4.63	6778.	4189.	4478.	31.353	.0350	-.30	2.32	.0	.6	3.08
81	3.730	1062.12	4.28	7523.	4176.	4600.	32.167	.0379	-.50	2.01	.0	.6	3.12
89	4.250	1047.12	3.84	9419.	8100.	9000.	36.129	.0350	-1.00	2.17	.0	.6	3.12
97	5.053	1027.31	4.13	11006.	3739.	6649.	45.456	.0350	-1.00	5.43	.0	.4	6.81
105	5.500	1014.44	6.28	8360.	3277.	3277.	52.539	.0350	-.50	3.74	.0	.7	4.44
113	7.500	957.32	2.99	2473.	2643.	2946.	7.396	.0350	.00	1.20	.0	.5	1.82
121	8.650	923.97	2.83	187.	695.	767.	.529	.0350	.00	.01	.0	1.0	.37
129	10.250	894.56	.89	574.	1559.	1559.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1161.	1161.	.509	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.01	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .96 IIFR= 123 FRM= .12 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	4	6.400	16056.2	1192.05	1185.10	1188.65	1.00	275.0	16056.2	16056.2	.0	.0
104	4	6.400	52539.3	1024.35	1030.00	1014.44	1.00	.0	16056.2	.0	.0	52539.3

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 6.5000 DTH = .1000 ITERR = 3
QU(1) = 15288.49 YU(1) = 1191.83 QU(N) = 508.87 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.83	1.45	10532.	2500.	2500.	15.288	.0350	-.70	-.09	129.5	.1	6.73
9	.340	1175.75	4.89	3234.	1914.	1988.	15.823	.0350	-.30	2.82	.0	.7	3.75
17	1.330	1147.14	3.67	4997.	4478.	4950.	18.359	.0350	-.10	1.59	.0	.6	2.14
25	1.615	1137.42	3.75	5157.	4478.	4934.	19.328	.0350	-.10	1.78	.0	.6	2.42
33	1.900	1127.67	3.68	5555.	5117.	5662.	20.450	.0350	-.10	1.84	.0	.6	2.67
41	2.673	1100.21	3.57	6746.	6118.	6757.	24.115	.0350	-.10	1.44	.0	.6	1.87
49	3.216	1078.61	4.40	6101.	3927.	3933.	26.857	.0350	-.30	2.43	.0	.6	3.13
57	3.345	1074.54	4.31	6390.	4329.	4396.	27.543	.0350	-.30	2.47	.0	.6	3.18
65	3.473	1070.35	4.40	6410.	4249.	4417.	28.196	.0350	-.30	2.37	.0	.6	3.11
73	3.602	1066.12	4.51	6410.	4125.	4407.	28.882	.0350	-.30	2.23	.0	.6	2.99
81	3.730	1062.03	4.14	7152.	4111.	4527.	29.610	.0382	-.50	1.92	.0	.6	3.03
89	4.250	1047.06	3.71	8935.	8100.	9000.	33.170	.0350	-1.00	2.11	.0	.6	3.06
97	5.053	1027.12	4.05	10282.	3625.	6467.	41.619	.0350	-1.00	5.24	.0	.4	6.61
105	5.500	1014.34	6.21	8036.	3237.	3237.	49.873	.0350	-.50	3.64	.0	.7	4.34
113	7.500	958.84	5.40	6824.	3059.	3432.	36.851	.0350	.00	2.72	.0	.6	3.34
121	8.650	923.96	2.83	184.	691.	763.	.523	.0350	.00	.01	.0	1.0	.36
129	10.250	894.56	.89	573.	1558.	1558.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1161.	1161.	.509	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.00	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .97 IIFR= 121 FRM= .12 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	3	6.500	15288.5	1191.83	1185.10	1188.59	1.00	275.0	15288.5	15288.5	.0	.0
104	3	6.500	49873.3	1024.22	1030.00	1014.34	1.00	.0	15288.5	.0	.0	49873.3

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 6.6000 DTH = .1000 ITERR = 3
QU(1) = 14564.59 YU(1) = 1191.62 QU(N) = 509.18 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.62	1.46	10000.	2500.	2500.	14.565	.0350	-.70	-.30	123.4	.1	6.52
9	.340	1175.69	4.83	3119.	1880.	1953.	15.080	.0350	-.30	2.76	.0	.7	3.69
17	1.330	1147.10	3.62	4812.	4411.	4876.	17.417	.0350	-.10	1.55	.0	.6	2.10
25	1.615	1137.37	3.70	4948.	4392.	4839.	18.284	.0350	-.10	1.73	.0	.6	2.37
33	1.900	1127.62	3.63	5311.	4994.	5524.	19.293	.0350	-.10	1.79	.0	.6	2.62
41	2.673	1100.16	3.50	6434.	6009.	6637.	22.542	.0350	-.10	1.39	.0	.6	1.82
49	3.216	1078.53	4.32	5775.	3820.	3825.	24.957	.0350	-.30	2.34	.0	.6	3.04
57	3.345	1074.47	4.22	6061.	4207.	4272.	25.567	.0350	-.30	2.39	.0	.6	3.10
65	3.473	1070.27	4.29	6093.	4195.	4358.	26.147	.0350	-.30	2.30	.0	.6	3.03
73	3.602	1066.04	4.40	6085.	4067.	4343.	26.750	.0350	-.30	2.15	.0	.6	2.92
81	3.730	1061.95	4.02	6818.	4051.	4460.	27.391	.0385	-.50	1.84	.0	.5	2.95
89	4.250	1047.01	3.60	8499.	8100.	9000.	30.582	.0350	-1.00	2.06	.0	.6	3.01
97	5.053	1026.92	3.99	9585.	3510.	6286.	38.251	.0350	-1.00	5.04	.0	.4	6.42
105	5.500	1014.23	6.10	7686.	3194.	3194.	46.857	.0350	-.50	3.53	.0	.7	4.23
113	7.500	959.55	5.77	9052.	3252.	3656.	52.266	.0350	.00	3.43	.0	.6	4.05
121	8.650	924.04	2.72	237.	765.	842.	.643	.0350	.00	.08	.0	.9	.44
129	10.250	894.56	.89	574.	1559.	1559.	.510	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1161.	1161.	.509	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.01	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .95 IIFR= 123 FRM= .13 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	3	6.600	14564.6	1191.62	1185.10	1188.53	1.00	275.0	14564.6	14564.6	.0	.0
104	3	6.600	46857.4	1024.07	1030.00	1014.23	1.00	.0	14564.6	.0	.0	46857.4

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 6.7000 DTH = .1000 ITERR = 4
QU(1) = 13873.91 YU(1) = 1191.41 QU(N) = 509.16 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.41	1.46	9484.	2500.	2500.	13.874	.0350	-.70	-.51	117.5	.1	6.31
9	.340	1175.63	4.78	3009.	1847.	1919.	14.374	.0350	-.30	2.70	.0	.7	3.63
17	1.330	1147.06	3.57	4644.	4350.	4810.	16.576	.0350	-.10	1.51	.0	.6	2.06
25	1.615	1137.33	3.65	4761.	4312.	4752.	17.358	.0350	-.10	1.69	.0	.6	2.33
33	1.900	1127.58	3.59	5093.	4881.	5397.	18.263	.0350	-.10	1.74	.0	.6	2.58
41	2.673	1100.11	3.44	6158.	5910.	6529.	21.174	.0350	-.10	1.34	.0	.6	1.78
49	3.216	1078.45	4.25	5485.	3722.	3727.	23.311	.0350	-.30	2.27	.0	.6	2.97
57	3.345	1074.39	4.15	5754.	4091.	4154.	23.853	.0350	-.30	2.32	.0	.6	3.03
65	3.473	1070.21	4.19	5813.	4146.	4305.	24.372	.0350	-.30	2.23	.0	.6	2.96
73	3.602	1065.97	4.30	5799.	4015.	4286.	24.907	.0350	-.30	2.08	.0	.6	2.84
81	3.730	1061.87	3.91	6521.	3997.	4400.	25.475	.0388	-.50	1.77	.0	.5	2.87
89	4.250	1046.95	3.54	8034.	7845.	8713.	28.440	.0350	-1.00	2.00	.0	.6	2.95
97	5.053	1026.73	3.95	8928.	3400.	6111.	35.262	.0350	-1.00	4.85	.0	.4	6.23
105	5.500	1014.14	5.99	7401.	3158.	3158.	44.325	.0350	-.50	3.44	.0	.7	4.14

113	7.500	959.56	5.78	9094.	3255.	3661.	52.530	.0350	.00	3.44	.0	.6	4.06
121	8.650	925.19	3.43	1793.	1938.	2115.	6.149	.0350	.00	1.23	.0	.6	1.59
129	10.250	894.56	.89	574.	1559.	1559.	.510	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1161.	1161.	.509	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.01	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .95 IIFR= 123 FRM= .13 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	4	6.700	13873.9	1191.41	1185.10	1188.47	1.00	275.0	13873.9	13873.9	.0	.0
104	4	6.700	44324.6	1023.88	1030.00	1014.14	1.00	.0	13873.9	.0	.0	44324.6

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 6.8000 DTH = .1000 ITERR = 3
QU(1) = 13203.42 YU(1) = 1191.21 QU(N) = 509.36 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.21	1.47	8973.	2500.	2500.	13.203	.0350	-.70	-.71	111.9	.1	6.11
9	.340	1175.57	4.72	2901.	1815.	1885.	13.693	.0350	-.30	2.64	.0	.7	3.57
17	1.330	1147.03	3.52	4488.	4292.	4746.	15.802	.0350	-.10	1.47	.0	.6	2.03
25	1.615	1137.29	3.60	4592.	4240.	4672.	16.528	.0350	-.10	1.65	.0	.6	2.29
33	1.900	1127.54	3.54	4896.	4776.	5280.	17.348	.0350	-.10	1.70	.0	.6	2.54
41	2.673	1100.07	3.38	5911.	5821.	6430.	19.970	.0350	-.10	1.30	.0	.6	1.73
49	3.216	1078.38	4.18	5230.	3633.	3638.	21.876	.0350	-.30	2.20	.0	.6	2.90
57	3.345	1074.33	4.08	5480.	3984.	4045.	22.356	.0350	-.30	2.25	.0	.6	2.96
65	3.473	1070.15	4.10	5564.	4103.	4258.	22.827	.0350	-.30	2.17	.0	.6	2.90
73	3.602	1065.90	4.20	5544.	3969.	4234.	23.303	.0350	-.30	2.01	.0	.6	2.78
81	3.730	1061.81	3.81	6255.	3948.	4345.	23.807	.0390	-.50	1.70	.0	.5	2.81
89	4.250	1046.89	3.49	7573.	7551.	8384.	26.467	.0350	-1.00	1.94	.0	.6	2.89
97	5.053	1026.55	3.92	8325.	3294.	5944.	32.625	.0350	-1.00	4.67	.0	.4	6.05
105	5.500	1014.05	5.88	7095.	3119.	3119.	41.737	.0350	-.50	3.34	.0	.7	4.05
113	7.500	959.56	5.77	9096.	3256.	3661.	52.442	.0350	.00	3.44	.0	.6	4.06
121	8.650	926.77	5.11	6139.	3550.	3864.	31.384	.0350	.00	2.82	.0	.7	3.17
129	10.250	894.56	.89	573.	1559.	1559.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1161.	1161.	.509	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.01	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .77 IIFR= 47 FRM= .14 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	3	6.800	13203.4	1191.21	1185.10	1188.41	1.00	275.0	13203.4	13203.4	.0	.0
104	3	6.800	41737.2	1023.66	1030.00	1014.05	1.00	.0	13203.4	.0	.0	41737.2

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

NONCONVERGENCE OCCURRED AT CROSS-SECTION NO. 115 116 117 118 119 120 121 122 123

TT= 6.8000 DTH= .1000 ITERR= 9

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145


TT =   6.8500          DTH =   .0500          ITERR =   2
QU(1) =   12870.37     YU(1) =    1191.11  QU(N) =     509.43  YU(N) =     885.51
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I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.11	1.48	8716.	2500.	2500.	12.870	.0350	-.70	-.82	53.9	.1	6.01
9	.340	1175.54	4.69	2848.	1798.	1868.	13.361	.0350	-.30	2.61	.0	.7	3.54
17	1.330	1147.01	3.50	4413.	4264.	4716.	15.435	.0350	-.10	1.46	.0	.6	2.01
25	1.615	1137.27	3.58	4512.	4204.	4634.	16.141	.0350	-.10	1.63	.0	.6	2.27
33	1.900	1127.52	3.52	4804.	4727.	5225.	16.925	.0350	-.10	1.68	.0	.6	2.52
41	2.673	1100.05	3.35	5797.	5779.	6384.	19.421	.0350	-.10	1.28	.0	.6	1.71
49	3.216	1078.35	4.15	5111.	3591.	3596.	21.224	.0350	-.30	2.16	.0	.6	2.86
57	3.345	1074.29	4.05	5352.	3933.	3993.	21.679	.0350	-.30	2.22	.0	.6	2.93
65	3.473	1070.12	4.06	5449.	4083.	4235.	22.125	.0350	-.30	2.14	.0	.6	2.88
73	3.602	1065.87	4.16	5427.	3947.	4210.	22.574	.0350	-.30	1.98	.0	.6	2.75
81	3.730	1061.78	3.76	6132.	3925.	4320.	23.052	.0391	-.50	1.67	.0	.5	2.78
89	4.250	1046.87	3.45	7411.	7445.	8265.	25.544	.0352	-1.00	1.92	.0	.6	2.87
97	5.053	1026.46	3.91	8044.	3244.	5864.	31.438	.0350	-1.00	4.59	.0	.4	5.96
105	5.500	1014.00	5.82	6945.	3099.	3099.	40.427	.0350	-.50	3.29	.0	.7	4.00
113	7.500	959.52	5.71	8968.	3245.	3648.	51.223	.0350	.00	3.40	.0	.6	4.02
121	8.650	927.35	5.58	8367.	4140.	4504.	46.711	.0350	.00	3.40	.0	.7	3.75
129	10.250	894.56	.89	573.	1559.	1559.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1161.	1161.	.509	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.01	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

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FRDM=     .77  IIFR=   47  FRM= .14 IIFM=    1


RESERVOIR OUTFLOW INFORMATION
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I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	6.850	12870.4	1191.11	1185.10	1188.38	1.00	275.0	12870.4	12870.4	.0	.0
104	2	6.850	40426.7	1023.56	1030.00	1014.00	1.00	.0	12870.4	.0	.0	40426.7

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
                                NONCONVERGENCE OCCURRED AT CROSS-SECTION NO.    117  118  119  120  121  122  123  124  125
                                                   TT=    6.8500     DTH=     .0500     ITERR= 9


IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145


TT =   6.8750          DTH =   .0250          ITERR =   1
QU(1) =   12703.52     YU(1) =    1191.05  QU(N) =     509.62  YU(N) =     885.51
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I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.05	1.48	8587.	2500.	2500.	12.704	.0350	-.70	-.87	26.4	.1	5.95
9	.340	1175.52	4.68	2822.	1790.	1860.	13.196	.0350	-.30	2.60	.0	.7	3.52
17	1.330	1147.00	3.49	4377.	4251.	4701.	15.255	.0350	-.10	1.45	.0	.6	2.00
25	1.615	1137.26	3.57	4473.	4187.	4615.	15.950	.0350	-.10	1.62	.0	.6	2.26

33	1.900	1127.51	3.51	4760.	4703.	5198.	16.721	.0350	-.10	1.68	.0	.6	2.51
41	2.673	1100.04	3.34	5742.	5759.	6362.	19.155	.0350	-.10	1.27	.0	.6	1.70
49	3.216	1078.33	4.14	5055.	3571.	3576.	20.911	.0350	-.30	2.15	.0	.6	2.85
57	3.345	1074.28	4.04	5291.	3909.	3968.	21.353	.0350	-.30	2.20	.0	.6	2.91
65	3.473	1070.10	4.04	5394.	4073.	4225.	21.789	.0350	-.30	2.13	.0	.6	2.86
73	3.602	1065.86	4.14	5371.	3937.	4199.	22.227	.0350	-.30	1.97	.0	.6	2.74
81	3.730	1061.76	3.74	6073.	3914.	4307.	22.690	.0392	-.50	1.65	.0	.5	2.76
89	4.250	1046.86	3.40	7377.	7422.	8239.	25.094	.0355	-1.00	1.91	.0	.6	2.86
97	5.053	1026.42	3.90	7909.	3220.	5826.	30.878	.0350	-1.00	4.54	.0	.4	5.92
105	5.500	1013.97	5.79	6865.	3089.	3089.	39.773	.0350	-.50	3.27	.0	.7	3.97
113	7.500	959.50	5.70	8907.	3240.	3642.	50.794	.0350	.00	3.38	.0	.6	4.00
121	8.650	927.47	5.76	8878.	4264.	4638.	51.175	.0350	.00	3.52	.0	.7	3.87
129	10.250	894.56	.89	573.	1559.	1559.	.509	.0350	.00	.00	.0	.3	.56
137	10.750	890.06	1.01	504.	1161.	1161.	.509	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.01	506.	1170.	1170.	.510	.0350	.00	.00	.0	.3	.51

FRDM= .76 IIFR= 47 FRM= .14 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.875	12703.5	1191.05	1185.10	1188.37	1.00	275.0	12703.5	12703.5	.0	.0
104	1	6.875	39772.8	1023.50	1030.00	1013.97	1.00	.0	12703.5	.0	.0	39772.8

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 6.9000 DTH = .0250 ITERR = 1
QU(1) = 12536.85 YU(1) = 1191.00 QU(N) = 509.64 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1191.00	1.48	8457.	2500.	2500.	12.537	.0350	-.70	-.92	26.1	.1	5.90
9	.340	1175.51	4.66	2795.	1782.	1851.	13.031	.0350	-.30	2.58	.0	.7	3.51
17	1.330	1146.99	3.48	4341.	4234.	4682.	15.085	.0350	-.10	1.44	.0	.6	1.99
25	1.615	1137.25	3.56	4433.	4170.	4596.	15.764	.0350	-.10	1.61	.0	.6	2.25
33	1.900	1127.50	3.50	4716.	4679.	5171.	16.522	.0350	-.10	1.67	.0	.6	2.50
41	2.673	1100.03	3.32	5688.	5739.	6340.	18.899	.0350	-.10	1.26	.0	.6	1.69
49	3.216	1078.32	4.12	5000.	3551.	3556.	20.610	.0350	-.30	2.13	.0	.6	2.83
57	3.345	1074.26	4.02	5232.	3885.	3944.	21.039	.0350	-.30	2.19	.0	.6	2.90
65	3.473	1070.09	4.02	5341.	4063.	4214.	21.466	.0350	-.30	2.11	.0	.6	2.85
73	3.602	1065.84	4.12	5316.	3927.	4188.	21.890	.0350	-.30	1.96	.0	.6	2.72
81	3.730	1061.75	3.71	6014.	3903.	4295.	22.341	.0392	-.50	1.64	.0	.5	2.75
89	4.250	1046.86	3.36	7353.	7407.	8222.	24.687	.0357	-1.00	1.91	.0	.6	2.86
97	5.053	1026.38	3.90	7778.	3193.	5784.	30.343	.0350	-1.00	4.50	.0	.4	5.88
105	5.500	1013.95	5.76	6789.	3079.	3079.	39.123	.0350	-.50	3.24	.0	.7	3.95
113	7.500	959.48	5.68	8844.	3234.	3636.	50.190	.0350	.00	3.36	.0	.6	3.98
121	8.650	927.48	5.91	8919.	4274.	4649.	52.744	.0350	.00	3.53	.0	.7	3.88
129	10.250	894.58	.95	612.	1605.	1605.	.584	.0350	.00	.03	.0	.3	.58
137	10.750	890.06	1.01	504.	1161.	1161.	.509	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.01	506.	1170.	1170.	.510	.0350	.00	.00	.0	.3	.51

FRDM= .78 IIFR= 123 FRM= .14 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.900	12536.9	1191.00	1185.10	1188.35	1.00	275.0	12536.9	12536.9	.0	.0
104	1	6.900	39123.3	1023.45	1030.00	1013.95	1.00	.0	12536.9	.0	.0	39123.3

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 7.0000 DTH = .1000 ITERR = 4
QU(1) = 11868.40 YU(1) = 1190.79 QU(N) = 509.38 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1190.79	1.50	7928.	2500.	2500.	11.868	.0350	-.70	-1.13	100.8	.1	5.69
9	.340	1175.45	4.60	2688.	1748.	1816.	12.370	.0350	-.30	2.52	.0	.7	3.45
17	1.330	1146.96	3.43	4197.	4166.	4607.	14.412	.0350	-.10	1.41	.0	.6	1.96
25	1.615	1137.22	3.51	4285.	4104.	4524.	15.058	.0350	-.10	1.57	.0	.6	2.22
33	1.900	1127.46	3.47	4550.	4587.	5069.	15.769	.0350	-.10	1.63	.0	.6	2.46
41	2.673	1099.99	3.27	5487.	5664.	6258.	17.945	.0350	-.10	1.23	.0	.6	1.66
49	3.216	1078.26	4.07	4795.	3476.	3481.	19.494	.0350	-.30	2.07	.0	.6	2.77
57	3.345	1074.21	3.97	5011.	3794.	3851.	19.882	.0350	-.30	2.13	.0	.6	2.84
65	3.473	1070.04	3.94	5141.	4027.	4175.	20.267	.0350	-.30	2.07	.0	.6	2.80
73	3.602	1065.79	4.04	5113.	3889.	4146.	20.651	.0350	-.30	1.90	.0	.6	2.67
81	3.730	1061.69	3.63	5799.	3863.	4250.	21.057	.0394	-.50	1.58	.0	.5	2.69
89	4.250	1046.84	3.21	7217.	7316.	8120.	23.190	.0365	-1.00	1.89	.0	.6	2.84
97	5.053	1026.22	3.88	7283.	3088.	5619.	28.289	.0350	-1.00	4.35	.0	.4	5.72
105	5.500	1013.85	5.65	6483.	3039.	3039.	36.598	.0350	-.50	3.14	.0	.7	3.85
113	7.500	959.39	5.58	8548.	3209.	3607.	47.711	.0350	.00	3.27	.0	.6	3.89
121	8.650	927.30	6.44	8165.	4090.	4450.	52.592	.0350	.00	3.35	.0	.8	3.70
129	10.250	894.63	.97	690.	1694.	1694.	.668	.0350	.00	.07	.0	.3	.63
137	10.750	890.06	1.01	505.	1161.	1161.	.510	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.01	506.	1170.	1170.	.509	.0350	.00	.00	.0	.3	.51

FRDM= .90 IIFR= 123 FRM= .15 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	4	7.000	11868.4	1190.79	1185.10	1188.29	1.00	275.0	11868.4	11868.4	.0	.0
104	4	7.000	36598.2	1023.25	1030.00	1013.85	1.00	.0	11868.4	.0	.0	36598.2

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 7.1000 DTH = .1000 ITERR = 3
QU(1) = 11195.97 YU(1) = 1190.57 QU(N) = 509.50 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1190.57	1.52	7386.	2500.	2500.	11.196	.0350	-.70	-1.35	95.3	.2	5.47
9	.340	1175.39	4.54	2579.	1713.	1780.	11.708	.0350	-.30	2.46	.0	.7	3.39
17	1.330	1146.92	3.39	4056.	4097.	4532.	13.755	.0350	-.10	1.37	.0	.6	1.92
25	1.615	1137.18	3.47	4145.	4041.	4454.	14.391	.0350	-.10	1.54	.0	.6	2.18
33	1.900	1127.43	3.43	4394.	4499.	4970.	15.067	.0350	-.10	1.60	.0	.6	2.43
41	2.673	1099.96	3.22	5301.	5595.	6181.	17.086	.0350	-.10	1.19	.0	.6	1.63
49	3.216	1078.21	4.01	4611.	3408.	3413.	18.507	.0350	-.30	2.02	.0	.6	2.72
57	3.345	1074.15	3.92	4812.	3710.	3766.	18.854	.0350	-.30	2.07	.0	.6	2.79
65	3.473	1070.00	3.87	4961.	3995.	4140.	19.208	.0350	-.30	2.02	.0	.6	2.75
73	3.602	1065.74	3.97	4929.	3855.	4108.	19.553	.0350	-.30	1.86	.0	.6	2.62

81	3.730	1061.64	3.56	5603.	3825.	4208.	19.919	.0396	-.50	1.53	.0	.5	2.64
89	4.250	1046.80	3.17	6915.	7111.	7890.	21.894	.0372	-1.00	1.85	.0	.6	2.80
97	5.053	1026.07	3.86	6816.	2986.	5458.	26.334	.0350	-1.00	4.19	.0	.5	5.57
105	5.500	1013.75	5.52	6190.	3000.	3000.	34.197	.0350	-.50	3.05	.0	.7	3.75
113	7.500	959.30	5.48	8237.	3183.	3576.	45.175	.0350	.00	3.17	.0	.6	3.80
121	8.650	927.01	7.22	7021.	3795.	4129.	50.711	.0350	.00	3.06	.0	.9	3.41
129	10.250	894.62	.93	678.	1681.	1681.	.630	.0350	.00	.07	.0	.3	.62
137	10.750	890.06	1.01	505.	1161.	1161.	.511	.0350	.00	.01	.0	.3	.56
145	11.250	885.51	1.01	506.	1170.	1170.	.510	.0350	.00	.00	.0	.3	.51

FRDM= 1.13 IIFR= 123 FRM= .16 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	3	7.100	11196.0	1190.57	1185.10	1188.22	1.00	275.0	11196.0	11196.0	.0	.0
104	3	7.100	34197.0	1023.05	1030.00	1013.75	1.00	.0	11196.0	.0	.0	34197.0

IFR= 0 0 0

TT = 7.3000 DTH = .1000 ITERR = 3
QU(1) = 9845.83 YU(1) = 1190.12 QU(N) = 509.79 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1190.12	1.57	6259.	2500.	2500.	9.846	.0350	-.70	-1.80	84.1	.2	5.02
9	.340	1175.25	4.41	2352.	1632.	1697.	10.376	.0350	-.30	2.32	.0	.6	3.25
17	1.330	1146.85	3.31	3772.	3956.	4377.	12.476	.0350	-.10	1.30	.0	.6	1.85
25	1.615	1137.11	3.39	3870.	3913.	4314.	13.109	.0350	-.10	1.47	.0	.6	2.11
33	1.900	1127.36	3.36	4098.	4328.	4778.	13.763	.0350	-.10	1.53	.0	.6	2.36
41	2.673	1099.90	3.14	4972.	5468.	6042.	15.587	.0350	-.10	1.13	.0	.6	1.57
49	3.216	1078.11	3.92	4287.	3285.	3289.	16.804	.0350	-.30	1.92	.0	.6	2.62
57	3.345	1074.06	3.83	4466.	3561.	3613.	17.100	.0350	-.30	1.98	.0	.6	2.69
65	3.473	1069.92	3.74	4648.	3938.	4078.	17.405	.0350	-.30	1.94	.0	.6	2.68
73	3.602	1065.66	3.84	4611.	3794.	4041.	17.693	.0350	-.30	1.77	.0	.6	2.54
81	3.730	1061.55	3.42	5262.	3760.	4135.	17.998	.0399	-.50	1.44	.0	.5	2.55
89	4.250	1046.72	3.07	6390.	6739.	7473.	19.636	.0386	-1.00	1.77	.0	.6	2.72
97	5.053	1025.79	3.83	6011.	2801.	5168.	23.031	.0350	-1.00	3.91	.0	.5	5.29
105	5.500	1013.56	5.29	5636.	2926.	2926.	29.795	.0350	-.50	2.86	.0	.7	3.56
113	7.500	959.11	5.28	7638.	3131.	3515.	40.334	.0350	.00	2.98	.0	.6	3.61
121	8.650	926.76	7.49	6109.	3542.	3855.	45.767	.0350	.00	2.81	.0	1.0	3.16
129	10.250	895.82	2.00	4630.	5353.	5353.	9.253	.0350	.00	1.27	.0	.4	1.82
137	10.750	890.08	1.04	530.	1181.	1181.	.553	.0350	.00	.03	.0	.3	.58
145	11.250	885.51	1.01	506.	1170.	1170.	.510	.0350	.00	.00	.0	.3	.51

FRDM= 1.29 IIFR= 123 FRM= .18 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	3	7.300	9845.8	1190.12	1185.10	1188.08	1.00	275.0	9845.8	9845.8	.0	.0
104	3	7.300	29795.0	1022.69	1030.00	1013.56	1.00	.0	9845.8	.0	.0	29795.0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 7.4000 DTH = .1000 ITERR = 3
QU(1) = 9194.38 YU(1) = 1189.90 QU(N) = 511.21 YU(N) = 885.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1189.90	1.61	5698.	2445.	2445.	9.194	.0350	-.70	-2.03	78.7	.2	4.80
9	.340	1175.18	4.35	2237.	1588.	1651.	9.721	.0350	-.30	2.25	.0	.6	3.18
17	1.330	1146.82	3.26	3628.	3883.	4296.	11.842	.0350	-.10	1.26	.0	.6	1.82
25	1.615	1137.08	3.34	3732.	3848.	4242.	12.483	.0350	-.10	1.44	.0	.6	2.08
33	1.900	1127.33	3.32	3953.	4241.	4681.	13.133	.0350	-.10	1.49	.0	.6	2.33
41	2.673	1099.87	3.09	4821.	5411.	5979.	14.913	.0350	-.10	1.11	.0	.6	1.54
49	3.216	1078.06	3.88	4143.	3228.	3232.	16.058	.0350	-.30	1.88	.0	.6	2.58
57	3.345	1074.01	3.79	4311.	3491.	3543.	16.333	.0350	-.30	1.94	.0	.6	2.65
65	3.473	1069.88	3.69	4508.	3912.	4050.	16.618	.0350	-.30	1.91	.0	.6	2.64
73	3.602	1065.62	3.78	4471.	3767.	4011.	16.887	.0350	-.30	1.74	.0	.6	2.50
81	3.730	1061.51	3.36	5111.	3730.	4102.	17.170	.0401	-.50	1.40	.0	.5	2.51
89	4.250	1046.69	3.01	6205.	6603.	7320.	18.670	.0392	-1.00	1.74	.0	.5	2.69
97	5.053	1025.67	3.82	5688.	2723.	5045.	21.742	.0350	-1.00	3.80	.0	.5	5.17
105	5.500	1013.48	5.17	5384.	2891.	2891.	27.834	.0350	-.50	2.77	.0	.7	3.48
113	7.500	959.01	5.17	7347.	3106.	3486.	37.985	.0350	.00	2.89	.0	.6	3.51
121	8.650	926.69	7.41	5851.	3467.	3774.	43.377	.0350	.00	2.73	.0	1.0	3.09

129	10.250	897.02	2.93	11743.	6000.	6000.	34.433	.0350	.00	2.46	.0	.4	3.02
137	10.750	890.34	1.43	872.	1422.	1422.	1.247	.0350	.00	.29	.0	.3	.84
145	11.250	885.51	1.01	507.	1171.	1171.	.511	.0350	.00	.00	.0	.3	.51

FRDM= 1.29 IIFR= 123 FRM= .19 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	3	7.400	9194.4	1189.90	1185.10	1188.01	1.00	275.0	9194.4	9194.4	.0	.0
104	3	7.400	27834.2	1022.53	1030.00	1013.48	1.00	.0	9194.4	.0	.0	27834.2

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 7.5000 DTH = .1000 ITERR = 3
QU(1) = 8567.07 YU(1) = 1189.67 QU(N) = 548.79 YU(N) = 885.54

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1189.67	1.66	5167.	2325.	2325.	8.567	.0350	-.70	-2.25	73.4	.2	4.57
9	.340	1175.11	4.28	2123.	1543.	1604.	9.086	.0350	-.30	2.18	.0	.6	3.11
17	1.330	1146.78	3.22	3483.	3807.	4213.	11.209	.0350	-.10	1.23	.0	.6	1.78
25	1.615	1137.04	3.30	3594.	3781.	4169.	11.859	.0350	-.10	1.40	.0	.6	2.04
33	1.900	1127.29	3.29	3808.	4153.	4582.	12.512	.0350	-.10	1.46	.0	.6	2.29
41	2.673	1099.85	3.05	4676.	5357.	5919.	14.267	.0350	-.10	1.08	.0	.6	1.51
49	3.216	1078.02	3.83	4008.	3174.	3178.	15.366	.0350	-.30	1.84	.0	.6	2.54
57	3.345	1073.97	3.75	4167.	3426.	3476.	15.624	.0350	-.30	1.89	.0	.6	2.61
65	3.473	1069.85	3.63	4378.	3888.	4023.	15.894	.0350	-.30	1.87	.0	.6	2.61
73	3.602	1065.59	3.72	4339.	3742.	3983.	16.146	.0350	-.30	1.70	.0	.6	2.47
81	3.730	1061.47	3.30	4970.	3702.	4071.	16.410	.0402	-.50	1.36	.0	.5	2.47
89	4.250	1046.68	2.91	6118.	6539.	7248.	17.796	.0399	-1.00	1.73	.0	.5	2.68
97	5.053	1025.57	3.81	5403.	2652.	4935.	20.579	.0350	-1.00	3.69	.0	.5	5.06
105	5.500	1013.40	5.06	5149.	2858.	2858.	26.056	.0350	-.50	2.69	.0	.7	3.40
113	7.500	958.92	5.07	7050.	3079.	3455.	35.737	.0350	.00	2.80	.0	.6	3.42
121	8.650	926.60	7.41	5558.	3380.	3679.	41.163	.0350	.00	2.65	.0	1.0	3.00
129	10.250	897.65	2.97	15534.	6000.	6000.	46.079	.0350	.00	3.09	.0	.3	3.65
137	10.750	891.53	2.64	3218.	2514.	2514.	8.493	.0350	.00	1.48	.0	.4	2.03
145	11.250	885.54	1.03	532.	1186.	1186.	.549	.0350	.00	.02	.0	.3	.54

FRDM= 1.31 IIFR= 123 FRM= .20 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	3	7.500	8567.1	1189.67	1185.10	1187.94	1.00	275.0	8567.1	8567.1	.0	.0
104	3	7.500	26056.1	1022.39	1030.00	1013.40	1.00	.0	8567.1	.0	.0	26056.1

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 7.6000 DTH = .1000 ITERR = 2
QU(1) = 7969.05 YU(1) = 1189.46 QU(N) = 1606.29 YU(N) = 885.99

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1189.46	1.71	4672.	2208.	2208.	7.969	.0350	-.70	-2.47	68.3	.2	4.36
9	.340	1175.03	4.21	2012.	1498.	1557.	8.478	.0350	-.30	2.11	.0	.6	3.03
17	1.330	1146.74	3.17	3337.	3730.	4128.	10.579	.0350	-.10	1.19	.0	.6	1.74
25	1.615	1137.00	3.25	3454.	3712.	4094.	11.237	.0350	-.10	1.36	.0	.6	2.00
33	1.900	1127.26	3.25	3663.	4062.	4481.	11.896	.0350	-.10	1.43	.0	.6	2.26
41	2.673	1099.82	3.01	4533.	5303.	5860.	13.644	.0350	-.10	1.05	.0	.6	1.49
49	3.216	1077.98	3.79	3878.	3121.	3125.	14.710	.0350	-.30	1.80	.0	.6	2.50
57	3.345	1073.93	3.71	4030.	3362.	3412.	14.959	.0350	-.30	1.85	.0	.6	2.57
65	3.473	1069.82	3.58	4255.	3865.	3998.	15.217	.0350	-.30	1.84	.0	.6	2.58
73	3.602	1065.56	3.67	4216.	3717.	3956.	15.456	.0350	-.30	1.67	.0	.6	2.43
81	3.730	1061.44	3.25	4837.	3676.	4041.	15.706	.0404	-.50	1.33	.0	.5	2.44
89	4.250	1046.67	2.82	6029.	6472.	7172.	17.018	.0405	-1.00	1.72	.0	.5	2.67
97	5.053	1025.47	3.79	5144.	2586.	4831.	19.496	.0350	-1.00	3.59	.0	.5	4.97
105	5.500	1013.32	4.95	4936.	2828.	2828.	24.457	.0350	-.50	2.62	.0	.7	3.32
113	7.500	958.82	4.96	6769.	3054.	3426.	33.570	.0350	.00	2.70	.0	.6	3.32
121	8.650	926.53	7.33	5305.	3302.	3595.	38.877	.0350	.00	2.57	.0	1.0	2.93
129	10.250	897.79	2.87	16365.	6000.	6000.	46.972	.0350	.00	3.23	.0	.3	3.79
137	10.750	892.94	3.38	7677.	3898.	3898.	25.911	.0350	.00	2.89	.0	.4	3.44
145	11.250	885.99	1.40	1147.	1514.	1514.	1.606	.0350	.00	.48	.0	.3	.99

FRDM= 1.31 IIFR= 123 FRM= .21 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	7.600	7969.0	1189.46	1185.10	1187.87	1.00	275.0	7969.0	7969.0	.0	.0
104	2	7.600	24457.2	1022.26	1030.00	1013.32	1.00	.0	7969.0	.0	.0	24457.2

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 7.7000 DTH = .1000 ITERR = 2
QU(1) = 7403.76 YU(1) = 1189.24 QU(N) = 9804.08 YU(N) = 887.42

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1189.24	1.76	4217.	2094.	2094.	7.404	.0350	-.70	-2.68	63.5	.2	4.14
9	.340	1174.96	4.15	1904.	1452.	1510.	7.895	.0350	-.30	2.03	.0	.6	2.96
17	1.330	1146.70	3.12	3191.	3650.	4040.	9.960	.0350	-.10	1.15	.0	.6	1.70
25	1.615	1136.97	3.20	3313.	3642.	4016.	10.619	.0350	-.10	1.32	.0	.6	1.97
33	1.900	1127.22	3.21	3516.	3968.	4376.	11.281	.0350	-.10	1.39	.0	.6	2.22
41	2.673	1099.79	2.97	4392.	5249.	5800.	13.032	.0350	-.10	1.03	.0	.6	1.46
49	3.216	1077.94	3.75	3753.	3070.	3074.	14.084	.0350	-.30	1.76	.0	.6	2.46
57	3.345	1073.89	3.67	3898.	3300.	3348.	14.325	.0350	-.30	1.81	.0	.6	2.53
65	3.473	1069.79	3.52	4137.	3843.	3974.	14.580	.0350	-.30	1.81	.0	.6	2.54
73	3.602	1065.52	3.61	4098.	3694.	3930.	14.808	.0350	-.30	1.64	.0	.6	2.40
81	3.730	1061.40	3.19	4710.	3651.	4013.	15.046	.0405	-.50	1.29	.0	.5	2.40
89	4.250	1046.65	2.74	5936.	6401.	7093.	16.290	.0411	-1.00	1.70	.0	.5	2.65
97	5.053	1025.38	3.78	4916.	2527.	4738.	18.560	.0350	-1.00	3.50	.0	.5	4.88
105	5.500	1013.25	4.86	4739.	2800.	2800.	23.017	.0350	-.50	2.54	.0	.7	3.25
113	7.500	958.73	4.86	6489.	3029.	3397.	31.527	.0350	.00	2.61	.0	.6	3.23
121	8.650	926.45	7.28	5044.	3221.	3507.	36.696	.0350	.00	2.49	.0	1.0	2.85
129	10.250	897.82	2.79	16562.	6000.	6000.	46.129	.0350	.00	3.26	.0	.3	3.82
137	10.750	893.79	3.43	11410.	4863.	4863.	39.118	.0350	.00	3.74	.0	.4	4.29
145	11.250	887.42	2.43	4039.	2541.	2541.	9.804	.0350	.00	1.90	.0	.3	2.42

FRDM= 1.31 IIFR= 123 FRM= .22 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	7.700	7403.8	1189.24	1185.10	1187.80	1.00	275.0	7403.8	7403.8	.0	.0
104	2	7.700	23017.4	1022.14	1030.00	1013.25	1.00	.0	7403.8	.0	.0	23017.4

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 7.8000 DTH = .1000 ITERR = 1
QU(1) = 6867.93 YU(1) = 1189.04 QU(N) = 26141.21 YU(N) = 888.64

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1189.04	1.81	3797.	1983.	1983.	6.868	.0350	-.70	-2.88	59.0	.2	3.94
9	.340	1174.89	4.08	1799.	1407.	1463.	7.341	.0350	-.30	1.96	.0	.6	2.89
17	1.330	1146.66	3.07	3046.	3570.	3952.	9.356	.0350	-.10	1.11	.0	.6	1.66
25	1.615	1136.93	3.15	3173.	3570.	3938.	10.011	.0350	-.10	1.29	.0	.6	1.93
33	1.900	1127.18	3.17	3368.	3872.	4268.	10.673	.0350	-.10	1.35	.0	.6	2.18
41	2.673	1099.77	2.92	4251.	5194.	5740.	12.430	.0350	-.10	1.00	.0	.6	1.43
49	3.216	1077.90	3.71	3630.	3018.	3022.	13.475	.0350	-.30	1.72	.0	.6	2.42
57	3.345	1073.85	3.64	3769.	3238.	3285.	13.712	.0350	-.30	1.77	.0	.6	2.49
65	3.473	1069.76	3.47	4022.	3821.	3950.	13.960	.0350	-.30	1.78	.0	.6	2.51
73	3.602	1065.49	3.56	3984.	3672.	3905.	14.187	.0350	-.30	1.61	.0	.6	2.37
81	3.730	1061.37	3.14	4588.	3626.	3985.	14.419	.0406	-.50	1.26	.0	.5	2.37
89	4.250	1046.64	2.67	5845.	6331.	7015.	15.613	.0417	-1.00	1.69	.0	.5	2.64
97	5.053	1025.30	3.76	4719.	2475.	4655.	17.748	.0350	-1.00	3.42	.0	.5	4.80
105	5.500	1013.19	4.76	4561.	2775.	2775.	21.721	.0350	-.50	2.48	.0	.7	3.19
113	7.500	958.65	4.75	6226.	3006.	3369.	29.599	.0350	.00	2.52	.0	.6	3.15
121	8.650	926.37	7.22	4805.	3144.	3424.	34.684	.0350	.00	2.42	.0	1.0	2.77
129	10.250	897.78	2.72	16335.	6000.	6000.	44.381	.0350	.00	3.23	.0	.3	3.78
137	10.750	894.12	3.29	13047.	5231.	5231.	42.972	.0350	.00	4.06	.0	.4	4.62
145	11.250	888.64	3.40	7690.	3422.	3422.	26.141	.0350	.00	3.13	.0	.4	3.64

FRDM= 1.32 IIFR= 123 FRM= .23 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	7.800	6867.9	1189.04	1185.10	1187.73	1.00	275.0	6867.9	6867.9	.0	.0
104	1	7.800	21720.8	1022.03	1030.00	1013.19	1.00	.0	6867.9	.0	.0	21720.8

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 7.9000 DTH = .1000 ITERR = 1
QU(1) = 6364.22 YU(1) = 1188.84 QU(N) = 37330.23 YU(N) = 889.24

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1188.84	1.86	3413.	1876.	1876.	6.364	.0350	-.70	-3.08	54.7	.2	3.74
9	.340	1174.81	4.01	1699.	1362.	1416.	6.818	.0350	-.30	1.89	.0	.6	2.81
17	1.330	1146.62	3.02	2904.	3490.	3864.	8.775	.0350	-.10	1.07	.0	.6	1.62
25	1.615	1136.89	3.10	3034.	3498.	3858.	9.420	.0350	-.10	1.25	.0	.6	1.89

33	1.900	1127.15	3.13	3221.	3773.	4158.	10.072	.0350	-.10	1.31	.0	.6	2.15
41	2.673	1099.74	2.88	4110.	5139.	5679.	11.833	.0350	-.10	.97	.0	.6	1.40
49	3.216	1077.86	3.67	3509.	2966.	2970.	12.880	.0350	-.30	1.67	.0	.6	2.37
57	3.345	1073.81	3.60	3643.	3176.	3221.	13.115	.0350	-.30	1.73	.0	.6	2.45
65	3.473	1069.73	3.43	3901.	3765.	3892.	13.365	.0350	-.30	1.75	.0	.6	2.48
73	3.602	1065.46	3.51	3873.	3650.	3881.	13.586	.0350	-.30	1.58	.0	.6	2.34
81	3.730	1061.33	3.09	4467.	3602.	3958.	13.813	.0407	-.50	1.22	.0	.5	2.33
89	4.250	1046.62	2.60	5753.	6260.	6934.	14.976	.0423	-1.00	1.67	.0	.5	2.62
97	5.053	1025.23	3.74	4541.	2426.	4580.	17.001	.0350	-1.00	3.35	.0	.5	4.73
105	5.500	1013.13	4.68	4397.	2751.	2751.	20.561	.0350	-.50	2.42	.0	.7	3.13
113	7.500	958.56	4.66	5974.	2983.	3342.	27.826	.0350	.00	2.44	.0	.6	3.06
121	8.650	926.30	7.15	4580.	3071.	3344.	32.729	.0350	.00	2.35	.0	1.0	2.70
129	10.250	897.73	2.65	16012.	6000.	6000.	42.453	.0350	.00	3.17	.0	.3	3.73
137	10.750	894.21	3.22	13561.	5341.	5341.	43.637	.0350	.00	4.16	.0	.4	4.71
145	11.250	889.24	3.79	9860.	3852.	3852.	37.330	.0350	.00	3.72	.0	.4	4.24

FRDM= 1.31 IIFR= 123 FRM= .24 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	7.900	6364.2	1188.84	1185.10	1187.66	1.00	275.0	6364.2	6364.2	.0	.0
104	1	7.900	20560.9	1021.94	1030.00	1013.13	1.00	.0	6364.2	.0	.0	20560.9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 8.0000 DTH = .1000 ITERR = 1
QU(1) = 5886.33 YU(1) = 1188.65 QU(N) = 41111.71 YU(N) = 889.47

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1188.65	1.92	3062.	1773.	1773.	5.886	.0350	-.70	-3.28	50.6	.3	3.55
9	.340	1174.74	3.95	1602.	1317.	1370.	6.325	.0350	-.30	1.81	.0	.6	2.74
17	1.330	1146.58	2.97	2766.	3410.	3776.	8.217	.0350	-.10	1.03	.0	.6	1.58
25	1.615	1136.85	3.05	2898.	3425.	3779.	8.847	.0350	-.10	1.21	.0	.6	1.85
33	1.900	1127.11	3.09	3074.	3673.	4045.	9.487	.0350	-.10	1.27	.0	.6	2.11
41	2.673	1099.71	2.83	3968.	5083.	5618.	11.237	.0350	-.10	.94	.0	.6	1.38
49	3.216	1077.82	3.63	3388.	2914.	2918.	12.299	.0350	-.30	1.63	.0	.6	2.33
57	3.345	1073.77	3.56	3516.	3112.	3157.	12.531	.0350	-.30	1.69	.0	.6	2.41
65	3.473	1069.69	3.38	3779.	3695.	3819.	12.777	.0350	-.30	1.72	.0	.6	2.45
73	3.602	1065.43	3.46	3762.	3627.	3856.	13.000	.0350	-.30	1.54	.0	.6	2.31
81	3.730	1061.30	3.04	4349.	3578.	3931.	13.225	.0408	-.50	1.19	.0	.5	2.30
89	4.250	1046.61	2.54	5661.	6187.	6852.	14.369	.0429	-1.00	1.66	.0	.5	2.61
97	5.053	1025.16	3.73	4379.	2381.	4509.	16.313	.0350	-1.00	3.28	.0	.5	4.66
105	5.500	1013.07	4.59	4251.	2730.	2730.	19.526	.0350	-.50	2.37	.0	.6	3.07
113	7.500	958.48	4.56	5741.	2961.	3317.	26.200	.0350	.00	2.36	.0	.6	2.98
121	8.650	926.22	7.09	4346.	2992.	3259.	30.820	.0350	.00	2.27	.0	1.0	2.62
129	10.250	897.66	2.59	15600.	6000.	6000.	40.421	.0350	.00	3.10	.0	.3	3.66
137	10.750	894.22	3.16	13588.	5347.	5347.	42.908	.0350	.00	4.17	.0	.3	4.72
145	11.250	889.47	3.81	10789.	4022.	4022.	41.112	.0350	.00	3.96	.0	.4	4.47

FRDM= 1.32 IIFR= 123 FRM= .26 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	8.000	5886.3	1188.65	1185.10	1187.59	1.00	275.0	5886.3	5886.3	.0	.0
104	1	8.000	19526.5	1021.86	1030.00	1013.07	1.00	.0	5886.3	.0	.0	19526.5

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
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```
TT =    8.1000            DTH =    .1000           ITERR =    1
QU(1) =     5432.38     YU(1) =      1188.46  QU(N) =    42100.09  YU(N) =       889.57
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I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1188.46	1.98	2744.	1674.	1674.	5.432	.0350	-.70	-3.46	46.8	.3	3.36
9	.340	1174.67	3.88	1508.	1273.	1324.	5.857	.0350	-.30	1.74	.0	.6	2.67
17	1.330	1146.54	2.92	2632.	3330.	3688.	7.686	.0350	-.10	.99	.0	.6	1.54
25	1.615	1136.81	3.00	2765.	3353.	3699.	8.300	.0350	-.10	1.17	.0	.6	1.81
33	1.900	1127.07	3.04	2931.	3571.	3931.	8.922	.0350	-.10	1.23	.0	.6	2.07
41	2.673	1099.68	2.78	3826.	5026.	5555.	10.652	.0350	-.10	.92	.0	.6	1.35
49	3.216	1077.78	3.59	3268.	2861.	2864.	11.721	.0350	-.30	1.59	.0	.6	2.29
57	3.345	1073.73	3.53	3391.	3048.	3092.	11.955	.0350	-.30	1.65	.0	.6	2.37
65	3.473	1069.66	3.34	3655.	3623.	3744.	12.203	.0350	-.30	1.68	.0	.6	2.42
73	3.602	1065.40	3.40	3652.	3605.	3832.	12.423	.0350	-.30	1.51	.0	.6	2.28
81	3.730	1061.27	2.99	4230.	3553.	3904.	12.648	.0410	-.50	1.16	.0	.5	2.27
89	4.250	1046.59	2.48	5565.	6111.	6767.	13.785	.0434	-1.00	1.64	.0	.5	2.59
97	5.053	1025.10	3.71	4230.	2339.	4443.	15.674	.0350	-1.00	3.22	.0	.5	4.59
105	5.500	1013.02	4.52	4114.	2709.	2709.	18.598	.0350	-.50	2.32	.0	.6	3.02
113	7.500	958.41	4.48	5523.	2941.	3294.	24.725	.0350	.00	2.29	.0	.6	2.91
121	8.650	926.15	7.03	4133.	2919.	3179.	29.039	.0350	.00	2.20	.0	1.0	2.55
129	10.250	897.59	2.53	15167.	6000.	6000.	38.433	.0350	.00	3.03	.0	.3	3.59
137	10.750	894.17	3.11	13339.	5294.	5294.	41.470	.0350	.00	4.12	.0	.3	4.67
145	11.250	889.57	3.76	11188.	4093.	4093.	42.100	.0350	.00	4.06	.0	.4	4.57

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FRDM=    1.32  IIFR=  123  FRM= .26 IIFM=  102
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RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	8.100	5432.4	1188.46	1185.10	1187.52	1.00	275.0	5432.4	5432.4	.0	.0
104	1	8.100	18598.2	1021.78	1030.00	1013.02	1.00	.0	5432.4	.0	.0	18598.2

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

```
TT =    8.2000            DTH =    .1000           ITERR =    1
QU(1) =     5002.86     YU(1) =      1188.29  QU(N) =    41597.14  YU(N) =       889.59
```

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1188.29	2.03	2460.	1580.	1580.	5.003	.0350	-.70	-3.64	43.1	.3	3.19
9	.340	1174.60	3.82	1418.	1228.	1277.	5.414	.0350	-.30	1.67	.0	.6	2.60
17	1.330	1146.50	2.87	2502.	3251.	3602.	7.180	.0350	-.10	.95	.0	.6	1.50
25	1.615	1136.77	2.95	2636.	3282.	3621.	7.776	.0350	-.10	1.13	.0	.6	1.77
33	1.900	1127.03	3.00	2791.	3469.	3818.	8.377	.0350	-.10	1.19	.0	.6	2.03
41	2.673	1099.65	2.74	3684.	4968.	5492.	10.076	.0350	-.10	.89	.0	.6	1.32
49	3.216	1077.73	3.54	3145.	2806.	2809.	11.143	.0350	-.30	1.55	.0	.6	2.25
57	3.345	1073.69	3.49	3264.	2982.	3024.	11.381	.0350	-.30	1.61	.0	.6	2.33
65	3.473	1069.62	3.30	3524.	3544.	3663.	11.632	.0350	-.30	1.65	.0	.6	2.38
73	3.602	1065.37	3.35	3542.	3583.	3807.	11.858	.0350	-.30	1.48	.0	.6	2.25

81	3.730	1061.23	2.94	4112.	3529.	3877.	12.082	.0411	-.50	1.13	.0	.5	2.23
89	4.250	1046.58	2.42	5468.	6032.	6679.	13.216	.0440	-1.00	1.63	.0	.4	2.58
97	5.053	1025.04	3.68	4089.	2299.	4380.	15.065	.0350	-1.00	3.16	.0	.5	4.53
105	5.500	1012.97	4.46	3982.	2677.	2677.	17.757	.0350	-.50	2.27	.0	.6	2.97
113	7.500	958.34	4.39	5322.	2922.	3272.	23.380	.0350	.00	2.22	.0	.6	2.84
121	8.650	926.08	6.97	3931.	2847.	3102.	27.393	.0350	.00	2.13	.0	1.0	2.48
129	10.250	897.51	2.48	14724.	6000.	6000.	36.471	.0350	.00	2.96	.0	.3	3.51
137	10.750	894.10	3.07	12981.	5217.	5217.	39.872	.0350	.00	4.05	.0	.3	4.60
145	11.250	889.59	3.69	11276.	4108.	4108.	41.597	.0350	.00	4.08	.0	.4	4.59

FRDM= 1.32 IIFR= 123 FRM= .26 IIFM= 102

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	8.200	5002.9	1188.29	1185.10	1187.45	.99	275.0	5002.9	5002.9	.0	.0
104	1	8.200	17756.7	1021.71	1030.00	1012.97	1.00	.0	5002.9	.0	.0	17756.7

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 8.3000 DTH = .1000 ITERR = 0
QU(1) = 4588.04 YU(1) = 1188.12 QU(N) = 40418.94 YU(N) = 889.58

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1188.12	2.08	2206.	1491.	1491.	4.588	.0350	-.70	-3.80	39.6	.3	3.02
9	.340	1174.52	3.75	1330.	1183.	1231.	4.991	.0350	-.30	1.60	.0	.6	2.52
17	1.330	1146.46	2.82	2378.	3174.	3516.	6.701	.0350	-.10	.91	.0	.6	1.46
25	1.615	1136.73	2.90	2512.	3211.	3543.	7.278	.0350	-.10	1.09	.0	.6	1.73
33	1.900	1126.99	2.96	2657.	3374.	3712.	7.860	.0350	-.10	1.15	.0	.6	1.99
41	2.673	1099.62	2.68	3543.	4911.	5429.	9.511	.0350	-.10	.86	.0	.6	1.29
49	3.216	1077.69	3.50	3023.	2749.	2753.	10.571	.0350	-.30	1.50	.0	.6	2.21
57	3.345	1073.65	3.45	3137.	2914.	2955.	10.808	.0350	-.30	1.57	.0	.6	2.28
65	3.473	1069.58	3.26	3389.	3462.	3577.	11.062	.0350	-.30	1.61	.0	.6	2.34
73	3.602	1065.34	3.29	3431.	3560.	3782.	11.291	.0350	-.30	1.45	.0	.6	2.22
81	3.730	1061.20	2.89	3993.	3504.	3849.	11.519	.0412	-.50	1.09	.0	.5	2.20
89	4.250	1046.56	2.36	5367.	5950.	6586.	12.655	.0446	-1.00	1.61	.0	.4	2.56
97	5.053	1024.98	3.66	3956.	2260.	4319.	14.485	.0350	-1.00	3.10	.0	.5	4.48
105	5.500	1012.93	4.41	3851.	2633.	2633.	16.986	.0350	-.50	2.22	.0	.6	2.93
113	7.500	958.28	4.31	5138.	2905.	3252.	22.170	.0350	.00	2.16	.0	.6	2.78
121	8.650	926.02	6.89	3753.	2783.	3032.	25.872	.0350	.00	2.06	.0	1.0	2.42
129	10.250	897.44	2.43	14287.	6000.	6000.	34.649	.0350	.00	2.89	.0	.3	3.44
137	10.750	894.02	3.03	12559.	5124.	5124.	38.111	.0350	.00	3.97	.0	.3	4.52
145	11.250	889.58	3.61	11212.	4097.	4097.	40.419	.0350	.00	4.06	.0	.4	4.58

FRDM= 1.32 IIFR= 123 FRM= .26 IIFM= 103

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	8.300	4588.0	1188.12	1185.10	1187.38	.99	275.0	4588.0	4588.0	.0	.0
104	0	8.300	16985.9	1021.65	1030.00	1012.93	1.00	.0	4588.0	.0	.0	16985.9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 8.4000 DTH = .1000 ITERR = 0
QU(1) = 4198.61 YU(1) = 1187.97 QU(N) = 38967.94 YU(N) = 889.54

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1187.97	2.12	1980.	1407.	1407.	4.199	.0350	-.70	-3.96	36.3	.3	2.87
9	.340	1174.45	3.69	1245.	1137.	1184.	4.591	.0350	-.30	1.52	.0	.6	2.45
17	1.330	1146.42	2.77	2259.	3098.	3433.	6.252	.0350	-.10	.87	.0	.6	1.42
25	1.615	1136.69	2.85	2392.	3141.	3467.	6.808	.0350	-.10	1.05	.0	.6	1.69
33	1.900	1126.95	2.91	2534.	3297.	3626.	7.366	.0350	-.10	1.12	.0	.6	1.95
41	2.673	1099.60	2.63	3405.	4854.	5366.	8.970	.0350	-.10	.83	.0	.6	1.26
49	3.216	1077.65	3.45	2902.	2693.	2696.	10.016	.0350	-.30	1.46	.0	.6	2.16
57	3.345	1073.60	3.41	3010.	2845.	2884.	10.250	.0350	-.30	1.52	.0	.6	2.24
65	3.473	1069.54	3.23	3255.	3378.	3490.	10.502	.0350	-.30	1.57	.0	.6	2.30
73	3.602	1065.31	3.23	3319.	3538.	3757.	10.735	.0350	-.30	1.42	.0	.6	2.19
81	3.730	1061.17	2.83	3872.	3479.	3821.	10.962	.0413	-.50	1.06	.0	.5	2.17
89	4.250	1046.54	2.30	5264.	5864.	6490.	12.112	.0452	-1.00	1.59	.0	.4	2.54
97	5.053	1024.92	3.64	3828.	2222.	4259.	13.927	.0350	-1.00	3.04	.0	.5	4.42
105	5.500	1012.88	4.37	3727.	2590.	2590.	16.275	.0350	-.50	2.17	.0	.6	2.88
113	7.500	958.22	4.24	4970.	2889.	3233.	21.089	.0350	.00	2.10	.0	.6	2.72
121	8.650	925.96	6.82	3589.	2722.	2966.	24.496	.0350	.00	2.00	.0	1.0	2.36
129	10.250	897.37	2.38	13871.	6000.	6000.	32.960	.0350	.00	2.82	.0	.3	3.37
137	10.750	893.93	3.00	12116.	5025.	5025.	36.371	.0350	.00	3.88	.0	.3	4.43
145	11.250	889.54	3.53	11046.	4068.	4068.	38.968	.0350	.00	4.02	.0	.4	4.54

FRDM= 1.32 IIFR= 123 FRM= .25 IIFM= 103

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	8.400	4198.6	1187.97	1185.10	1187.31	.98	275.0	4198.6	4198.6	.0	.0
104	0	8.400	16275.1	1021.59	1030.00	1012.88	1.00	.0	4198.6	.0	.0	16275.1

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 8.5000 DTH = .1000 ITERR = 0
QU(1) = 3826.47 YU(1) = 1187.82 QU(N) = 37373.84 YU(N) = 889.48

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1187.82	2.15	1777.	1327.	1327.	3.826	.0350	-.70	-4.10	33.2	.3	2.72
9	.340	1174.38	3.62	1162.	1091.	1136.	4.207	.0350	-.30	1.45	.0	.6	2.38
17	1.330	1146.39	2.72	2144.	3023.	3350.	5.825	.0350	-.10	.83	.0	.6	1.39
25	1.615	1136.66	2.79	2277.	3073.	3392.	6.362	.0350	-.10	1.02	.0	.6	1.66
33	1.900	1126.91	2.86	2414.	3219.	3541.	6.903	.0350	-.10	1.08	.0	.6	1.91
41	2.673	1099.57	2.58	3271.	4798.	5304.	8.449	.0350	-.10	.80	.0	.6	1.24
49	3.216	1077.60	3.40	2783.	2635.	2638.	9.470	.0350	-.30	1.42	.0	.6	2.12
57	3.345	1073.56	3.36	2884.	2774.	2812.	9.703	.0350	-.30	1.48	.0	.6	2.19
65	3.473	1069.50	3.19	3121.	3292.	3401.	9.953	.0350	-.30	1.53	.0	.6	2.26
73	3.602	1065.28	3.18	3208.	3515.	3731.	10.186	.0350	-.30	1.39	.0	.6	2.16
81	3.730	1061.13	2.78	3751.	3453.	3792.	10.413	.0414	-.50	1.02	.0	.5	2.13
89	4.250	1046.53	2.24	5155.	5773.	6388.	11.569	.0458	-1.00	1.57	.0	.4	2.53
97	5.053	1024.87	3.61	3704.	2184.	4200.	13.385	.0350	-1.00	2.99	.0	.5	4.36
105	5.500	1012.83	4.32	3612.	2550.	2550.	15.611	.0350	-.50	2.13	.0	.6	2.83
113	7.500	958.17	4.17	4815.	2875.	3216.	20.095	.0350	.00	2.04	.0	.6	2.67
121	8.650	925.90	6.75	3441.	2666.	2906.	23.235	.0350	.00	1.95	.0	1.0	2.30

129	10.250	897.30	2.33	13462.	6000.	6000.	31.326	.0350	.00	2.75	.0	.3	3.30
137	10.750	893.84	2.97	11670.	4924.	4924.	34.661	.0350	.00	3.79	.0	.3	4.34
145	11.250	889.48	3.46	10817.	4027.	4027.	37.374	.0350	.00	3.97	.0	.4	4.48

FRDM= 1.32 IIFR= 123 FRM= .25 IIFM= 103

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	8.500	3826.5	1187.82	1185.10	1187.23	.96	275.0	3826.5	3826.5	.0	.0
104	0	8.500	15611.3	1021.54	1030.00	1012.83	1.00	.0	3826.5	.0	.0	15611.3

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 8.6000 DTH = .1000 ITERR = 0
QU(1) = 3479.60 YU(1) = 1187.68 QU(N) = 35756.92 YU(N) = 889.42

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1187.68	2.18	1599.	1253.	1253.	3.480	.0350	-.70	-4.24	30.2	.3	2.58
9	.340	1174.30	3.56	1081.	1045.	1087.	3.845	.0350	-.30	1.37	.0	.6	2.30
17	1.330	1146.35	2.67	2033.	2948.	3268.	5.422	.0350	-.10	.80	.0	.6	1.35
25	1.615	1136.62	2.74	2165.	3005.	3318.	5.939	.0350	-.10	.98	.0	.6	1.62
33	1.900	1126.88	2.81	2299.	3143.	3457.	6.459	.0350	-.10	1.04	.0	.6	1.88
41	2.673	1099.54	2.53	3140.	4742.	5243.	7.955	.0350	-.10	.78	.0	.5	1.21
49	3.216	1077.56	3.36	2664.	2577.	2580.	8.946	.0350	-.30	1.37	.0	.6	2.07
57	3.345	1073.51	3.32	2760.	2703.	2740.	9.173	.0350	-.30	1.43	.0	.6	2.15
65	3.473	1069.46	3.15	2989.	3205.	3311.	9.419	.0350	-.30	1.49	.0	.6	2.22
73	3.602	1065.25	3.12	3098.	3492.	3706.	9.652	.0350	-.30	1.36	.0	.6	2.12
81	3.730	1061.10	2.72	3631.	3428.	3764.	9.878	.0416	-.50	.99	.0	.5	2.10
89	4.250	1046.51	2.19	5044.	5677.	6280.	11.036	.0465	-1.00	1.55	.0	.4	2.51
97	5.053	1024.81	3.59	3583.	2147.	4142.	12.857	.0350	-1.00	2.93	.0	.5	4.31
105	5.500	1012.81	4.31	3565.	2533.	2533.	15.362	.0350	-.50	2.11	.0	.6	2.81
113	7.500	958.12	4.11	4670.	2861.	3200.	19.180	.0350	.00	1.99	.0	.6	2.62
121	8.650	925.85	6.68	3308.	2615.	2850.	22.105	.0350	.00	1.90	.0	1.0	2.25
129	10.250	897.23	2.28	13056.	6000.	6000.	29.720	.0350	.00	2.68	.0	.3	3.23
137	10.750	893.75	2.94	11232.	4822.	4822.	33.018	.0350	.00	3.70	.0	.3	4.25
145	11.250	889.42	3.39	10551.	3979.	3979.	35.757	.0350	.00	3.90	.0	.4	4.42

FRDM= 1.31 IIFR= 123 FRM= .24 IIFM= 103

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	8.600	3479.6	1187.68	1185.10	1187.16	.95	275.0	3479.6	3479.6	.0	.0
104	0	8.600	15362.2	1021.45	1030.00	1012.81	1.00	.0	3479.6	.0	.0	15362.2

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 8.7000 DTH = .1000 ITERR = 0
QU(1) = 3163.77 YU(1) = 1187.55 QU(N) = 34158.40 YU(N) = 889.34

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1187.55	2.19	1444.	1185.	1185.	3.164	.0350	-.70	-4.37	27.5	.3	2.45
9	.340	1174.22	3.49	1004.	998.	1039.	3.506	.0350	-.30	1.30	.0	.6	2.22
17	1.330	1146.31	2.62	1925.	2875.	3187.	5.039	.0350	-.10	.76	.0	.6	1.31
25	1.615	1136.59	2.69	2060.	2940.	3247.	5.549	.0350	-.10	.94	.0	.6	1.59
33	1.900	1126.84	2.76	2188.	3067.	3374.	6.042	.0350	-.10	1.01	.0	.6	1.84
41	2.673	1099.51	2.48	3014.	4688.	5183.	7.481	.0350	-.10	.75	.0	.5	1.18
49	3.216	1077.51	3.31	2551.	2520.	2523.	8.442	.0350	-.30	1.33	.0	.6	2.03
57	3.345	1073.47	3.28	2639.	2631.	2667.	8.664	.0350	-.30	1.39	.0	.6	2.10
65	3.473	1069.42	3.11	2860.	3117.	3220.	8.904	.0350	-.30	1.45	.0	.6	2.18
73	3.602	1065.21	3.06	2989.	3469.	3681.	9.135	.0350	-.30	1.33	.0	.6	2.09
81	3.730	1061.06	2.66	3511.	3402.	3735.	9.356	.0417	-.50	.95	.0	.5	2.06
89	4.250	1046.48	2.13	4928.	5576.	6167.	10.509	.0472	-1.00	1.53	.0	.4	2.48
97	5.053	1024.75	3.56	3465.	2110.	4084.	12.340	.0350	-1.00	2.88	.0	.5	4.25
105	5.500	1012.79	4.28	3501.	2510.	2510.	14.973	.0350	-.50	2.08	.0	.6	2.79
113	7.500	958.07	4.04	4536.	2848.	3185.	18.342	.0350	.00	1.95	.0	.6	2.57
121	8.650	925.81	6.61	3189.	2568.	2799.	21.083	.0350	.00	1.85	.0	1.0	2.21
129	10.250	897.17	2.23	12655.	6000.	6000.	28.191	.0350	.00	2.61	.0	.3	3.17
137	10.750	893.67	2.91	10809.	4721.	4721.	31.460	.0350	.00	3.61	.0	.3	4.17
145	11.250	889.34	3.33	10263.	3927.	3927.	34.158	.0350	.00	3.83	.0	.4	4.34

FRDM= 1.31 IIFR= 123 FRM= .25 IIFM= 103

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	8.700	3163.8	1187.55	1185.10	1187.09	.93	275.0	3163.8	3163.8	.0	.0
104	0	8.700	14973.1	1021.36	1030.00	1012.79	1.00	.0	3163.8	.0	.0	14973.1

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 8.8000 DTH = .1000 ITERR = 0
QU(1) = 2877.10 YU(1) = 1187.44 QU(N) = 32609.90 YU(N) = 889.27

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1187.44	2.20	1310.	1123.	1123.	2.877	.0350	-.70	-4.49	25.0	.4	2.34
9	.340	1174.15	3.43	931.	951.	990.	3.196	.0350	-.30	1.22	.0	.6	2.15
17	1.330	1146.28	2.57	1825.	2804.	3110.	4.688	.0350	-.10	.73	.0	.6	1.28
25	1.615	1136.55	2.64	1955.	2873.	3173.	5.161	.0350	-.10	.91	.0	.6	1.55
33	1.900	1126.81	2.71	2082.	2993.	3292.	5.648	.0350	-.10	.97	.0	.6	1.81
41	2.673	1099.49	2.43	2891.	4635.	5125.	7.034	.0350	-.10	.72	.0	.5	1.15
49	3.216	1077.47	3.26	2440.	2463.	2466.	7.962	.0350	-.30	1.28	.0	.6	1.98
57	3.345	1073.42	3.24	2522.	2560.	2594.	8.176	.0350	-.30	1.34	.0	.6	2.06
65	3.473	1069.38	3.08	2733.	3029.	3128.	8.409	.0350	-.30	1.40	.0	.6	2.14
73	3.602	1065.18	3.00	2882.	3446.	3656.	8.634	.0350	-.30	1.30	.0	.6	2.06
81	3.730	1061.03	2.61	3393.	3377.	3706.	8.853	.0418	-.50	.92	.0	.5	2.03
89	4.250	1046.46	2.08	4810.	5471.	6049.	9.995	.0479	-1.00	1.51	.0	.4	2.46
97	5.053	1024.70	3.53	3348.	2073.	4025.	11.832	.0350	-1.00	2.82	.0	.5	4.19
105	5.500	1012.76	4.25	3426.	2483.	2483.	14.563	.0350	-.50	2.05	.0	.6	2.76
113	7.500	958.02	3.98	4412.	2836.	3171.	17.574	.0350	.00	1.90	.0	.6	2.52
121	8.650	925.76	6.55	3077.	2524.	2750.	20.142	.0350	.00	1.81	.0	1.0	2.16
129	10.250	897.11	2.19	12286.	6000.	6000.	26.867	.0350	.00	2.55	.0	.3	3.11
137	10.750	893.58	2.88	10400.	4622.	4622.	29.969	.0350	.00	3.53	.0	.3	4.08
145	11.250	889.27	3.27	9964.	3872.	3872.	32.610	.0350	.00	3.75	.0	.4	4.27

FRDM= 1.30 IIFR= 123 FRM= .25 IIFM= 103

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	8.800	2877.1	1187.44	1185.10	1187.03	.91	275.0	2877.1	2877.1	.0	.0
104	0	8.800	14563.2	1021.27	1030.00	1012.76	1.00	.0	2877.1	.0	.0	14563.2

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 8.9000 DTH = .1000 ITERR = 0
QU(1) = 2620.33 YU(1) = 1187.33 QU(N) = 31120.02 YU(N) = 889.19

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1187.33	2.19	1194.	1066.	1066.	2.620	.0350	-.70	-4.59	22.7	.4	2.23
9	.340	1174.08	3.37	864.	907.	944.	2.913	.0350	-.30	1.15	.0	.6	2.08
17	1.330	1146.23	2.51	1708.	2719.	3016.	4.280	.0350	-.10	.68	.0	.6	1.23
25	1.615	1136.51	2.60	1850.	2780.	3071.	4.807	.0350	-.10	.87	.0	.6	1.51
33	1.900	1126.77	2.66	1979.	2919.	3211.	5.273	.0350	-.10	.94	.0	.6	1.77
41	2.673	1099.46	2.38	2773.	4583.	5068.	6.608	.0350	-.10	.70	.0	.5	1.13
49	3.216	1077.42	3.22	2333.	2408.	2411.	7.504	.0350	-.30	1.24	.0	.6	1.94
57	3.345	1073.38	3.20	2407.	2489.	2522.	7.712	.0350	-.30	1.30	.0	.6	2.01
65	3.473	1069.34	3.04	2611.	2941.	3037.	7.937	.0350	-.30	1.36	.0	.6	2.10
73	3.602	1065.15	2.94	2779.	3425.	3632.	8.166	.0350	-.30	1.27	.0	.6	2.03
81	3.730	1060.99	2.55	3278.	3352.	3679.	8.372	.0419	-.50	.88	.0	.5	1.99
89	4.250	1046.44	2.02	4689.	5362.	5927.	9.494	.0486	-1.00	1.49	.0	.4	2.44
97	5.053	1024.64	3.51	3233.	2036.	3967.	11.331	.0350	-1.00	2.76	.0	.5	4.14
105	5.500	1012.73	4.22	3349.	2455.	2455.	14.132	.0350	-.50	2.02	.0	.6	2.73
113	7.500	957.98	3.93	4296.	2825.	3158.	16.872	.0350	.00	1.86	.0	.6	2.48
121	8.650	925.72	6.48	2970.	2480.	2703.	19.261	.0350	.00	1.77	.0	1.0	2.12
129	10.250	897.05	2.15	11947.	6000.	6000.	25.659	.0350	.00	2.50	.0	.3	3.05
137	10.750	893.49	2.85	10005.	4524.	4524.	28.548	.0350	.00	3.44	.0	.3	3.99
145	11.250	889.19	3.22	9661.	3815.	3815.	31.120	.0350	.00	3.67	.0	.4	4.19

FRDM= 1.30 IIFR= 123 FRM= .25 IIFM= 103

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	8.900	2620.3	1187.33	1185.10	1186.96	.88	275.0	2620.3	2620.3	.0	.0
104	0	8.900	14132.2	1021.17	1030.00	1012.73	1.00	.0	2620.3	.0	.0	14132.2

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 9.0000 DTH = .1000 ITERR = 0
QU(1) = 2390.61 YU(1) = 1187.23 QU(N) = 29695.98 YU(N) = 889.11

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1187.23	2.19	1094.	1014.	1014.	2.391	.0350	-.70	-4.69	20.7	.4	2.13
9	.340	1174.01	3.32	801.	863.	899.	2.660	.0350	-.30	1.08	.0	.6	2.01
17	1.330	1146.20	2.46	1605.	2643.	2932.	3.941	.0350	-.10	.64	.0	.6	1.20
25	1.615	1136.47	2.55	1741.	2681.	2962.	4.440	.0350	-.10	.83	.0	.6	1.47

33	1.900	1126.74	2.62	1878.	2846.	3131.	4.914	.0350	-.10	.90	.0	.6	1.74
41	2.673	1099.44	2.33	2660.	4533.	5013.	6.208	.0350	-.10	.67	.0	.5	1.10
49	3.216	1077.38	3.17	2230.	2355.	2357.	7.070	.0350	-.30	1.19	.0	.6	1.89
57	3.345	1073.33	3.16	2298.	2418.	2450.	7.269	.0350	-.30	1.25	.0	.6	1.97
65	3.473	1069.30	3.00	2492.	2854.	2946.	7.488	.0350	-.30	1.32	.0	.6	2.06
73	3.602	1065.12	2.88	2677.	3403.	3608.	7.704	.0350	-.30	1.24	.0	.6	2.00
81	3.730	1060.96	2.50	3165.	3327.	3651.	7.913	.0421	-.50	.85	.0	.5	1.96
89	4.250	1046.42	1.97	4567.	5250.	5801.	9.010	.0493	-1.00	1.47	.0	.4	2.42
97	5.053	1024.59	3.48	3118.	1998.	3907.	10.839	.0350	-1.00	2.71	.0	.5	4.08
105	5.500	1012.69	4.19	3266.	2425.	2425.	13.686	.0350	-.50	1.99	.0	.6	2.69
113	7.500	957.95	3.88	4192.	2815.	3147.	16.251	.0350	.00	1.83	.0	.6	2.45
121	8.650	925.68	6.43	2871.	2439.	2659.	18.452	.0350	.00	1.73	.0	1.0	2.08
129	10.250	896.99	2.11	11615.	6000.	6000.	24.472	.0350	.00	2.44	.0	.3	2.99
137	10.750	893.41	2.83	9633.	4430.	4430.	27.233	.0350	.00	3.36	.0	.3	3.91
145	11.250	889.11	3.17	9358.	3757.	3757.	29.696	.0350	.00	3.59	.0	.4	4.11

FRDM= 1.29 IIFR= 123 FRM= .25 IIFM= 103

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	9.000	2390.6	1187.23	1185.10	1186.90	.86	275.0	2390.6	2390.6	.0	.0
104	0	9.000	13685.6	1021.06	1030.00	1012.69	1.00	.0	2390.6	.0	.0	13685.6

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 9.1000 DTH = .1000 ITERR = 0

QU(1) = 2186.07 YU(1) = 1187.15 QU(N) = 28346.35 YU(N) = 889.03

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1187.15	2.17	1006.	966.	966.	2.186	.0350	-.70	-4.78	18.9	.4	2.05
9	.340	1173.94	3.27	743.	821.	855.	2.432	.0350	-.30	1.01	.0	.6	1.94
17	1.330	1146.16	2.40	1506.	2566.	2848.	3.609	.0350	-.10	.61	.0	.6	1.16
25	1.615	1136.43	2.51	1630.	2576.	2847.	4.087	.0350	-.10	.79	.0	.6	1.43
33	1.900	1126.70	2.57	1779.	2771.	3048.	4.563	.0350	-.10	.87	.0	.6	1.70
41	2.673	1099.41	2.28	2550.	4484.	4959.	5.825	.0350	-.10	.65	.0	.5	1.08
49	3.216	1077.34	3.12	2131.	2302.	2305.	6.656	.0350	-.30	1.15	.0	.6	1.85
57	3.345	1073.29	3.13	2191.	2348.	2378.	6.849	.0350	-.30	1.21	.0	.6	1.92
65	3.473	1069.26	2.97	2377.	2766.	2855.	7.060	.0350	-.30	1.28	.0	.6	2.02
73	3.602	1065.10	2.82	2580.	3382.	3585.	7.278	.0350	-.30	1.21	.0	.6	1.97
81	3.730	1060.92	2.45	3055.	3303.	3624.	7.472	.0422	-.50	.82	.0	.4	1.92
89	4.250	1046.39	1.92	4445.	5134.	5671.	8.544	.0500	-1.00	1.44	.0	.4	2.39
97	5.053	1024.53	3.45	3006.	1960.	3848.	10.358	.0350	-1.00	2.65	.0	.5	4.03
105	5.500	1012.66	4.16	3181.	2393.	2393.	13.226	.0350	-.50	1.95	.0	.6	2.66
113	7.500	957.92	3.83	4103.	2806.	3137.	15.733	.0350	.00	1.79	.0	.6	2.42
121	8.650	925.64	6.37	2783.	2402.	2618.	17.722	.0350	.00	1.69	.0	1.0	2.04
129	10.250	896.94	2.07	11293.	6000.	6000.	23.342	.0350	.00	2.39	.0	.3	2.94
137	10.750	893.33	2.80	9282.	4339.	4339.	26.000	.0350	.00	3.28	.0	.3	3.83
145	11.250	889.03	3.13	9060.	3700.	3700.	28.346	.0350	.00	3.51	.0	.4	4.03

FRDM= 1.29 IIFR= 123 FRM= .25 IIFM= 102

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	9.100	2186.1	1187.15	1185.10	1186.85	.84	275.0	2186.1	2186.1	.0	.0
104	0	9.100	13226.5	1020.95	1030.00	1012.66	1.00	.0	2186.1	.0	.0	13226.5

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

```
TT =   9.2000          DTH =   .1000          ITERR =   0
QU(1) =    2004.28     YU(1) =    1187.07  QU(N) =   27075.86  YU(N) =     888.95
```

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1187.07	2.16	930.	923.	923.	2.004	.0350	-.70	-4.86	17.3	.4	1.97
9	.340	1173.87	3.23	689.	779.	811.	2.228	.0350	-.30	.94	.0	.6	1.87
17	1.330	1146.12	2.35	1415.	2494.	2769.	3.319	.0350	-.10	.57	.0	.5	1.12
25	1.615	1136.39	2.46	1524.	2472.	2732.	3.756	.0350	-.10	.75	.0	.6	1.39
33	1.900	1126.67	2.51	1679.	2694.	2963.	4.219	.0350	-.10	.83	.0	.6	1.67
41	2.673	1099.39	2.24	2442.	4435.	4905.	5.465	.0350	-.10	.62	.0	.5	1.06
49	3.216	1077.30	3.08	2037.	2250.	2253.	6.266	.0350	-.30	1.11	.0	.6	1.81
57	3.345	1073.24	3.09	2088.	2278.	2307.	6.449	.0350	-.30	1.16	.0	.6	1.88
65	3.473	1069.22	2.94	2266.	2679.	2765.	6.653	.0350	-.30	1.24	.0	.6	1.98
73	3.602	1065.07	2.76	2485.	3362.	3562.	6.863	.0350	-.30	1.18	.0	.6	1.95
81	3.730	1060.89	2.39	2949.	3279.	3598.	7.056	.0423	-.50	.78	.0	.4	1.89
89	4.250	1046.37	1.87	4324.	5017.	5540.	8.101	.0508	-1.00	1.42	.0	.4	2.37
97	5.053	1024.47	3.42	2896.	1923.	3788.	9.889	.0350	-1.00	2.59	.0	.5	3.97
105	5.500	1012.62	4.13	3093.	2359.	2359.	12.759	.0350	-.50	1.92	.0	.6	2.62
113	7.500	957.89	3.80	4031.	2799.	3128.	15.309	.0350	.00	1.77	.0	.6	2.39
121	8.650	925.61	6.31	2702.	2368.	2581.	17.057	.0350	.00	1.66	.0	1.0	2.01
129	10.250	896.89	2.03	10983.	6000.	6000.	22.290	.0350	.00	2.33	.0	.3	2.89
137	10.750	893.25	2.78	8949.	4251.	4251.	24.843	.0350	.00	3.20	.0	.3	3.75
145	11.250	888.95	3.09	8770.	3643.	3643.	27.076	.0350	.00	3.43	.0	.4	3.95

```
FRDM=    1.29  IIFR=  123  FRM= .25 IIFM=  102
```

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	9.200	2004.3	1187.07	1185.10	1186.79	.81	275.0	2004.3	2004.3	.0	.0
104	0	9.200	12759.0	1020.84	1030.00	1012.62	1.00	.0	2004.3	.0	.0	12759.0

```
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

```
TT =   9.3000          DTH =   .1000          ITERR =   0
QU(1) =    1840.72     YU(1) =    1186.99  QU(N) =   25882.71  YU(N) =     888.87
```

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.99	2.13	862.	882.	882.	1.841	.0350	-.70	-4.93	15.9	.4	1.89
9	.340	1173.81	3.19	641.	740.	771.	2.046	.0350	-.30	.88	.0	.6	1.81
17	1.330	1146.09	2.29	1329.	2425.	2692.	3.046	.0350	-.10	.54	.0	.5	1.09
25	1.615	1136.35	2.43	1425.	2370.	2620.	3.460	.0350	-.10	.70	.0	.6	1.35
33	1.900	1126.63	2.46	1581.	2616.	2878.	3.892	.0350	-.10	.80	.0	.6	1.63
41	2.673	1099.37	2.19	2336.	4386.	4852.	5.117	.0350	-.10	.60	.0	.5	1.03
49	3.216	1077.25	3.03	1947.	2200.	2203.	5.901	.0350	-.30	1.07	.0	.6	1.77
57	3.345	1073.20	3.05	1990.	2209.	2236.	6.074	.0350	-.30	1.12	.0	.6	1.83
65	3.473	1069.18	2.90	2159.	2592.	2675.	6.269	.0350	-.30	1.20	.0	.6	1.93
73	3.602	1065.04	2.70	2394.	3342.	3540.	6.474	.0350	-.30	1.15	.0	.6	1.92

81	3.730	1060.86	2.34	2846.	3256.	3572.	6.659	.0424	-.50	.75	.0	.4	1.86
89	4.250	1046.35	1.83	4200.	4895.	5403.	7.676	.0515	-1.00	1.40	.0	.3	2.35
97	5.053	1024.42	3.38	2788.	1885.	3729.	9.433	.0350	-1.00	2.54	.0	.5	3.91
105	5.500	1012.58	4.09	3003.	2325.	2325.	12.286	.0350	-.50	1.88	.0	.6	2.58
113	7.500	957.87	3.76	3965.	2793.	3121.	14.924	.0350	.00	1.74	.0	.6	2.37
121	8.650	925.58	6.26	2629.	2336.	2547.	16.447	.0350	.00	1.62	.0	1.0	1.98
129	10.250	896.84	1.99	10687.	6000.	6000.	21.316	.0350	.00	2.29	.0	.3	2.84
137	10.750	893.18	2.75	8634.	4167.	4167.	23.763	.0350	.00	3.12	.0	.3	3.68
145	11.250	888.87	3.05	8491.	3587.	3587.	25.883	.0350	.00	3.36	.0	.3	3.87

FRDM= 1.28 IIFR= 123 FRM= .25 IIFM= 102

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	9.300	1840.7	1186.99	1185.10	1186.74	.79	275.0	1840.7	1840.7	.0	.0
104	0	9.300	12286.3	1020.73	1030.00	1012.58	1.00	.0	1840.7	.0	.0	12286.3

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 9.4000 DTH = .1000 ITERR = 0
QU(1) = 1692.37 YU(1) = 1186.92 QU(N) = 24759.86 YU(N) = 888.80

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.92	2.11	802.	845.	845.	1.692	.0350	-.70	-5.00	14.6	.4	1.82
9	.340	1173.75	3.15	598.	703.	732.	1.883	.0350	-.30	.82	.0	.6	1.75
17	1.330	1146.05	2.24	1248.	2357.	2617.	2.798	.0350	-.10	.50	.0	.5	1.05
25	1.615	1136.31	2.39	1334.	2272.	2513.	3.185	.0350	-.10	.67	.0	.5	1.31
33	1.900	1126.59	2.41	1490.	2542.	2796.	3.591	.0350	-.10	.76	.0	.6	1.59
41	2.673	1099.34	2.14	2233.	4332.	4792.	4.784	.0350	-.10	.58	.0	.5	1.01
49	3.216	1077.21	2.99	1861.	2151.	2153.	5.555	.0350	-.30	1.03	.0	.6	1.73
57	3.345	1073.16	3.02	1895.	2140.	2167.	5.721	.0350	-.30	1.08	.0	.6	1.79
65	3.473	1069.14	2.87	2057.	2506.	2585.	5.907	.0350	-.30	1.16	.0	.6	1.89
73	3.602	1065.01	2.65	2306.	3322.	3519.	6.107	.0350	-.30	1.13	.0	.6	1.89
81	3.730	1060.83	2.29	2746.	3234.	3547.	6.284	.0425	-.50	.72	.0	.4	1.83
89	4.250	1046.32	1.78	4078.	4771.	5264.	7.270	.0523	-1.00	1.37	.0	.3	2.32
97	5.053	1024.36	3.35	2683.	1847.	3670.	8.993	.0350	-1.00	2.48	.0	.5	3.86
105	5.500	1012.54	4.06	2912.	2289.	2289.	11.812	.0350	-.50	1.84	.0	.6	2.54
113	7.500	957.84	3.73	3898.	2786.	3113.	14.534	.0350	.00	1.72	.0	.6	2.34
121	8.650	925.55	6.20	2565.	2308.	2517.	15.912	.0350	.00	1.60	.0	1.0	1.95
129	10.250	896.79	1.96	10406.	6000.	6000.	20.414	.0350	.00	2.24	.0	.3	2.79
137	10.750	893.10	2.73	8336.	4085.	4085.	22.741	.0350	.00	3.05	.0	.3	3.60
145	11.250	888.80	3.01	8221.	3532.	3532.	24.760	.0350	.00	3.28	.0	.3	3.80

FRDM= 1.28 IIFR= 123 FRM= .25 IIFM= 102

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	9.400	1692.4	1186.92	1185.10	1186.69	.77	275.0	1692.4	1692.4	.0	.0
104	0	9.400	11811.7	1020.62	1030.00	1012.54	1.00	.0	1692.4	.0	.0	11811.7

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 9.5000 DTH = .1000 ITERR = 0

QU(1) = 1555.75 YU(1) = 1186.85 QU(N) = 23701.85 YU(N) = 888.72

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.85	2.09	746.	808.	808.	1.556	.0350	-.70	-5.07	13.4	.4	1.75
9	.340	1173.69	3.11	558.	667.	695.	1.734	.0350	-.30	.76	.0	.6	1.69
17	1.330	1146.02	2.19	1173.	2292.	2546.	2.570	.0350	-.10	.47	.0	.5	1.02
25	1.615	1136.27	2.35	1249.	2177.	2408.	2.934	.0350	-.10	.63	.0	.5	1.27
33	1.900	1126.56	2.36	1406.	2471.	2718.	3.318	.0350	-.10	.73	.0	.6	1.56
41	2.673	1099.32	2.11	2123.	4228.	4677.	4.475	.0350	-.10	.55	.0	.5	.98
49	3.216	1077.18	2.94	1776.	2102.	2104.	5.221	.0350	-.30	.99	.0	.6	1.69
57	3.345	1073.11	2.98	1804.	2072.	2097.	5.383	.0350	-.30	1.03	.0	.6	1.75
65	3.473	1069.10	2.84	1958.	2420.	2496.	5.565	.0350	-.30	1.12	.0	.6	1.85
73	3.602	1064.99	2.59	2220.	3304.	3498.	5.755	.0350	-.30	1.10	.0	.6	1.87
81	3.730	1060.80	2.24	2649.	3212.	3522.	5.929	.0426	-.50	.69	.0	.4	1.80
89	4.250	1046.29	1.74	3956.	4644.	5121.	6.884	.0531	-1.00	1.34	.0	.3	2.29
97	5.053	1024.30	3.32	2581.	1810.	3612.	8.570	.0350	-1.00	2.43	.0	.5	3.80
105	5.500	1012.50	4.02	2822.	2254.	2254.	11.347	.0350	-.50	1.80	.0	.6	2.50
113	7.500	957.82	3.69	3827.	2779.	3105.	14.128	.0350	.00	1.69	.0	.6	2.32
121	8.650	925.53	6.15	2513.	2285.	2491.	15.454	.0350	.00	1.57	.0	1.0	1.93
129	10.250	896.75	1.93	10142.	6000.	6000.	19.578	.0350	.00	2.19	.0	.3	2.75
137	10.750	893.03	2.70	8051.	4005.	4005.	21.777	.0350	.00	2.98	.0	.3	3.53
145	11.250	888.72	2.98	7962.	3479.	3479.	23.702	.0350	.00	3.21	.0	.3	3.72

FRDM= 1.27 IIFR= 123 FRM= .25 IIFM= 102

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	9.500	1555.8	1186.85	1185.10	1186.64	.75	275.0	1555.8	1555.8	.0	.0
104	0	9.500	11346.6	1020.51	1030.00	1012.50	1.00	.0	1555.8	.0	.0	11346.6

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 9.6000 DTH = .1000 ITERR = 0

QU(1) = 1429.43 YU(1) = 1186.79 QU(N) = 22703.68 YU(N) = 888.65

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.79	2.06	695.	774.	774.	1.429	.0350	-.70	-5.13	12.3	.4	1.69
9	.340	1173.62	3.10	516.	626.	653.	1.599	.0350	-.30	.70	.0	.6	1.62
17	1.330	1145.99	2.14	1102.	2227.	2474.	2.361	.0350	-.10	.44	.0	.5	.99
25	1.615	1136.23	2.31	1168.	2082.	2304.	2.702	.0350	-.10	.59	.0	.5	1.23
33	1.900	1126.53	2.31	1325.	2401.	2641.	3.066	.0350	-.10	.69	.0	.5	1.53
41	2.673	1099.29	2.07	2020.	4127.	4567.	4.184	.0350	-.10	.53	.0	.5	.96
49	3.216	1077.14	2.89	1694.	2052.	2054.	4.901	.0350	-.30	.95	.0	.6	1.65
57	3.345	1073.07	2.95	1715.	2012.	2037.	5.055	.0350	-.30	.99	.0	.6	1.70
65	3.473	1069.06	2.81	1861.	2333.	2406.	5.235	.0350	-.30	1.08	.0	.6	1.81
73	3.602	1064.96	2.54	2139.	3286.	3478.	5.432	.0350	-.30	1.08	.0	.6	1.84
81	3.730	1060.77	2.19	2556.	3190.	3498.	5.594	.0427	-.50	.66	.0	.4	1.77
89	4.250	1046.27	1.70	3834.	4514.	4975.	6.519	.0539	-1.00	1.32	.0	.3	2.27
97	5.053	1024.25	3.29	2483.	1774.	3555.	8.167	.0350	-1.00	2.37	.0	.5	3.75
105	5.500	1012.46	3.99	2731.	2217.	2217.	10.884	.0350	-.50	1.76	.0	.6	2.46
113	7.500	957.79	3.65	3753.	2772.	3097.	13.707	.0350	.00	1.67	.0	.6	2.29
121	8.650	925.51	6.10	2468.	2265.	2469.	15.049	.0350	.00	1.55	.0	1.0	1.91

129	10.250	896.71	1.90	9894.	6000.	6000.	18.805	.0350	.00	2.15	.0	.3	2.71
137	10.750	892.97	2.68	7782.	3928.	3928.	20.872	.0350	.00	2.91	.0	.3	3.47
145	11.250	888.65	2.94	7712.	3427.	3427.	22.704	.0350	.00	3.13	.0	.3	3.65

FRDM= 1.26 IIFR= 123 FRM= .25 IIFM= 102

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	9.600	1429.4	1186.79	1185.10	1186.60	.73	275.0	1429.4	1429.4	.0	.0
104	0	9.600	10884.1	1020.40	1030.00	1012.46	1.00	.0	1429.4	.0	.0	10884.1

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 9.7000 DTH = .1000 ITERR = 0
QU(1) = 1312.23 YU(1) = 1186.73 QU(N) = 21762.38 YU(N) = 888.58

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.73	2.03	648.	740.	740.	1.312	.0350	-.70	-5.20	11.3	.4	1.63
9	.340	1173.56	3.09	476.	586.	611.	1.473	.0350	-.30	.63	.0	.6	1.56
17	1.330	1145.96	2.10	1039.	2162.	2402.	2.185	.0350	-.10	.41	.0	.5	.96
25	1.615	1136.19	2.28	1092.	1989.	2202.	2.491	.0350	-.10	.55	.0	.5	1.19
33	1.900	1126.50	2.27	1250.	2334.	2568.	2.833	.0350	-.10	.66	.0	.5	1.50
41	2.673	1099.26	2.03	1912.	4018.	4447.	3.884	.0350	-.10	.50	.0	.5	.93
49	3.216	1077.10	2.85	1615.	2004.	2006.	4.599	.0350	-.30	.91	.0	.6	1.61
57	3.345	1073.03	2.91	1634.	1964.	1988.	4.748	.0350	-.30	.95	.0	.6	1.66
65	3.473	1069.01	2.79	1766.	2244.	2314.	4.919	.0350	-.30	1.04	.0	.6	1.77
73	3.602	1064.94	2.48	2057.	3267.	3458.	5.105	.0350	-.30	1.05	.0	.6	1.82
81	3.730	1060.74	2.14	2465.	3169.	3475.	5.273	.0428	-.50	.63	.0	.4	1.74
89	4.250	1046.24	1.66	3714.	4381.	4826.	6.172	.0547	-1.00	1.29	.0	.3	2.24
97	5.053	1024.20	3.26	2389.	1738.	3499.	7.779	.0350	-1.00	2.32	.0	.5	3.69
105	5.500	1012.42	3.95	2640.	2180.	2180.	10.428	.0350	-.50	1.72	.0	.6	2.42
113	7.500	957.76	3.61	3676.	2765.	3088.	13.274	.0350	.00	1.64	.0	.6	2.26
121	8.650	925.49	6.05	2423.	2244.	2447.	14.664	.0350	.00	1.53	.0	1.0	1.89
129	10.250	896.67	1.87	9662.	6000.	6000.	18.094	.0350	.00	2.11	.0	.3	2.67
137	10.750	892.90	2.66	7528.	3854.	3854.	20.029	.0350	.00	2.85	.0	.3	3.40
145	11.250	888.58	2.91	7473.	3377.	3377.	21.762	.0350	.00	3.06	.0	.3	3.58

FRDM= 1.26 IIFR= 123 FRM= .25 IIFM= 102

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	9.700	1312.2	1186.73	1185.10	1186.55	.71	275.0	1312.2	1312.2	.0	.0
104	0	9.700	10428.1	1020.30	1030.00	1012.42	1.00	.0	1312.2	.0	.0	10428.1

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 9.8000 DTH = .1000 ITERR = 0
QU(1) = 1203.96 YU(1) = 1186.67 QU(N) = 20878.19 YU(N) = 888.51

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.67	1.99	604.	708.	708.	1.204	.0350	-.70	-5.26	10.4	.4	1.57
9	.340	1173.49	3.09	439.	545.	569.	1.357	.0350	-.30	.57	.0	.6	1.49
17	1.330	1145.93	2.06	979.	2099.	2332.	2.018	.0350	-.10	.38	.0	.5	.93
25	1.615	1136.16	2.25	1022.	1899.	2103.	2.301	.0350	-.10	.52	.0	.5	1.16
33	1.900	1126.46	2.22	1180.	2270.	2497.	2.620	.0350	-.10	.63	.0	.5	1.46
41	2.673	1099.24	2.00	1810.	3914.	4332.	3.612	.0350	-.10	.47	.0	.5	.91
49	3.216	1077.06	2.80	1538.	1956.	1958.	4.311	.0350	-.30	.87	.0	.6	1.57
57	3.345	1072.99	2.86	1558.	1918.	1941.	4.453	.0350	-.30	.91	.0	.6	1.62
65	3.473	1068.97	2.76	1674.	2155.	2221.	4.618	.0350	-.30	1.00	.0	.6	1.73
73	3.602	1064.91	2.43	1978.	3219.	3406.	4.802	.0350	-.30	1.03	.0	.5	1.79
81	3.730	1060.71	2.09	2375.	3149.	3452.	4.962	.0429	-.50	.61	.0	.4	1.71
89	4.250	1046.21	1.62	3583.	4232.	4659.	5.815	.0556	-1.00	1.26	.0	.3	2.21
97	5.053	1024.14	3.22	2297.	1703.	3444.	7.408	.0350	-1.00	2.26	.0	.5	3.64
105	5.500	1012.38	3.92	2549.	2142.	2142.	9.981	.0350	-.50	1.67	.0	.6	2.38
113	7.500	957.73	3.57	3596.	2757.	3079.	12.836	.0350	.00	1.61	.0	.6	2.23
121	8.650	925.47	6.01	2374.	2222.	2423.	14.276	.0350	.00	1.51	.0	1.0	1.87
129	10.250	896.63	1.85	9447.	6000.	6000.	17.441	.0350	.00	2.08	.0	.3	2.63
137	10.750	892.84	2.64	7291.	3784.	3784.	19.245	.0350	.00	2.79	.0	.3	3.34
145	11.250	888.51	2.88	7246.	3328.	3328.	20.878	.0350	.00	3.00	.0	.3	3.51

FRDM= 1.25 IIFR= 123 FRM= .25 IIFM= 103

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	9.800	1204.0	1186.67	1185.10	1186.50	.69	275.0	1204.0	1204.0	.0	.0
104	0	9.800	9980.7	1020.19	1030.00	1012.38	1.00	.0	1204.0	.0	.0	9980.7

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 9.9000 DTH = .1000 ITERR = 0
QU(1) = 1105.53 YU(1) = 1186.61 QU(N) = 20051.80 YU(N) = 888.45

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.61	1.96	565.	677.	677.	1.106	.0350	-.70	-5.31	9.5	.4	1.51
9	.340	1173.43	3.08	406.	506.	528.	1.248	.0350	-.30	.50	.0	.6	1.43
17	1.330	1145.91	2.02	923.	2038.	2264.	1.866	.0350	-.10	.35	.0	.5	.91
25	1.615	1136.12	2.23	958.	1813.	2008.	2.132	.0350	-.10	.48	.0	.5	1.12
33	1.900	1126.44	2.18	1115.	2208.	2429.	2.426	.0350	-.10	.60	.0	.5	1.44
41	2.673	1099.22	1.96	1719.	3817.	4226.	3.368	.0350	-.10	.45	.0	.5	.88
49	3.216	1077.02	2.76	1463.	1907.	1909.	4.031	.0350	-.30	.83	.0	.6	1.53
57	3.345	1072.95	2.81	1483.	1871.	1894.	4.173	.0350	-.30	.87	.0	.6	1.59
65	3.473	1068.93	2.73	1584.	2064.	2126.	4.331	.0350	-.30	.95	.0	.5	1.69
73	3.602	1064.88	2.40	1882.	3109.	3289.	4.519	.0350	-.30	1.00	.0	.5	1.76
81	3.730	1060.69	2.04	2289.	3129.	3429.	4.671	.0430	-.50	.58	.0	.4	1.69
89	4.250	1046.18	1.59	3463.	4091.	4500.	5.510	.0565	-1.00	1.23	.0	.3	2.18
97	5.053	1024.09	3.19	2210.	1668.	3389.	7.055	.0350	-1.00	2.21	.0	.5	3.59
105	5.500	1012.34	3.88	2459.	2104.	2104.	9.544	.0350	-.50	1.63	.0	.6	2.34
113	7.500	957.70	3.53	3513.	2748.	3069.	12.393	.0350	.00	1.58	.0	.5	2.20
121	8.650	925.44	5.98	2320.	2197.	2396.	13.879	.0350	.00	1.49	.0	1.0	1.84
129	10.250	896.60	1.82	9244.	6000.	6000.	16.848	.0350	.00	2.05	.0	.3	2.60
137	10.750	892.78	2.62	7071.	3717.	3717.	18.526	.0350	.00	2.73	.0	.3	3.28
145	11.250	888.45	2.85	7030.	3281.	3281.	20.052	.0350	.00	2.93	.0	.3	3.45

FRDM= 1.25 IIFR= 123 FRM= .25 IIFM= 103

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	9.900	1105.5	1186.61	1185.10	1186.46	.67	275.0	1105.5	1105.5	.0	.0
104	0	9.900	9543.9	1020.09	1030.00	1012.34	1.00	.0	1105.5	.0	.0	9543.9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 10.0000 DTH = .1000 ITERR = 0
QU(1) = 1015.85 YU(1) = 1186.55 QU(N) = 19285.74 YU(N) = 888.38

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.55	1.92	529.	648.	648.	1.016	.0350	-.70	-5.37	8.8	.4	1.45
9	.340	1173.37	3.07	374.	466.	487.	1.150	.0350	-.30	.44	.0	.6	1.37
17	1.330	1145.88	1.99	872.	1981.	2201.	1.731	.0350	-.10	.33	.0	.5	.88
25	1.615	1136.09	2.20	898.	1729.	1916.	1.976	.0350	-.10	.45	.0	.5	1.09
33	1.900	1126.41	2.14	1055.	2150.	2365.	2.252	.0350	-.10	.57	.0	.5	1.41
41	2.673	1099.19	1.93	1632.	3723.	4123.	3.143	.0350	-.10	.43	.0	.5	.86
49	3.216	1076.98	2.71	1388.	1858.	1860.	3.761	.0350	-.30	.79	.0	.6	1.49
57	3.345	1072.91	2.77	1410.	1825.	1846.	3.900	.0350	-.30	.83	.0	.6	1.55
65	3.473	1068.89	2.71	1496.	1970.	2029.	4.054	.0350	-.30	.91	.0	.5	1.64
73	3.602	1064.86	2.35	1798.	3008.	3183.	4.230	.0350	-.30	.97	.0	.5	1.73
81	3.730	1060.66	1.99	2205.	3109.	3407.	4.390	.0431	-.50	.55	.0	.4	1.66
89	4.250	1046.15	1.56	3341.	3942.	4333.	5.207	.0573	-1.00	1.20	.0	.3	2.15
97	5.053	1024.04	3.16	2125.	1634.	3336.	6.719	.0350	-1.00	2.16	.0	.5	3.54
105	5.500	1012.31	3.86	2401.	2079.	2079.	9.277	.0350	-.50	1.60	.0	.6	2.31
113	7.500	957.67	3.49	3429.	2740.	3059.	11.950	.0350	.00	1.55	.0	.5	2.17
121	8.650	925.42	5.95	2263.	2170.	2367.	13.474	.0350	.00	1.46	.0	1.0	1.82
129	10.250	896.57	1.80	9052.	6000.	6000.	16.312	.0350	.00	2.01	.0	.3	2.57
137	10.750	892.72	2.60	6869.	3655.	3655.	17.873	.0350	.00	2.67	.0	.3	3.22
145	11.250	888.38	2.83	6826.	3236.	3236.	19.286	.0350	.00	2.87	.0	.3	3.38

FRDM= 1.25 IIFR= 123 FRM= .25 IIFM= 103

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	10.000	1015.8	1186.55	1185.10	1186.42	.65	275.0	1015.8	1015.8	.0	.0
104	0	10.000	9277.1	1019.97	1030.00	1012.31	1.00	.0	1015.8	.0	.0	9277.1

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 10.1000 DTH = .1000 ITERR = 0
QU(1) = 934.58 YU(1) = 1186.50 QU(N) = 18579.77 YU(N) = 888.32

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.50	1.89	496.	620.	620.	.935	.0350	-.70	-5.42	8.1	.4	1.40
9	.340	1173.31	3.04	348.	439.	459.	1.057	.0350	-.30	.38	.0	.6	1.31
17	1.330	1145.86	1.95	824.	1925.	2139.	1.605	.0350	-.10	.30	.0	.5	.86
25	1.615	1136.06	2.18	841.	1645.	1824.	1.831	.0350	-.10	.41	.0	.5	1.06

33	1.900	1126.38	2.10	999.	2094.	2304.	2.093	.0350	-.10	.55	.0	.5	1.38
41	2.673	1099.17	1.89	1550.	3633.	4023.	2.933	.0350	-.10	.40	.0	.5	.84
49	3.216	1076.94	2.66	1319.	1811.	1813.	3.511	.0350	-.30	.76	.0	.5	1.46
57	3.345	1072.87	2.72	1339.	1778.	1800.	3.642	.0350	-.30	.79	.0	.6	1.51
65	3.473	1068.84	2.69	1408.	1872.	1927.	3.788	.0350	-.30	.86	.0	.5	1.60
73	3.602	1064.82	2.33	1706.	2895.	3063.	3.970	.0350	-.30	.94	.0	.5	1.70
81	3.730	1060.63	1.94	2121.	3089.	3385.	4.118	.0432	-.50	.52	.0	.4	1.63
89	4.250	1046.12	1.53	3222.	3792.	4164.	4.934	.0582	-1.00	1.17	.0	.3	2.12
97	5.053	1023.99	3.13	2044.	1601.	3283.	6.397	.0350	-1.00	2.11	.0	.5	3.49
105	5.500	1012.29	3.84	2367.	2064.	2064.	9.093	.0350	-.50	1.59	.0	.6	2.29
113	7.500	957.64	3.44	3348.	2732.	3050.	11.509	.0350	.00	1.52	.0	.5	2.14
121	8.650	925.39	5.93	2204.	2143.	2337.	13.063	.0350	.00	1.43	.0	1.0	1.79
129	10.250	896.54	1.78	8876.	6000.	6000.	15.826	.0350	.00	1.98	.0	.3	2.54
137	10.750	892.67	2.58	6684.	3597.	3597.	17.270	.0350	.00	2.62	.0	.3	3.17
145	11.250	888.32	2.80	6637.	3193.	3193.	18.580	.0350	.00	2.81	.0	.3	3.32

FRDM= 1.25 IIFR= 123 FRM= .25 IIFM= 102

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	10.100	934.6	1186.50	1185.10	1186.37	.63	275.0	934.6	934.6	.0	.0
104	0	10.100	9093.4	1019.83	1030.00	1012.29	1.00	.0	934.6	.0	.0	9093.4

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 10.2000 DTH = .1000 ITERR = 0
QU(1) = 861.18 YU(1) = 1186.45 QU(N) = 17929.11 YU(N) = 888.27

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.45	1.85	466.	594.	594.	.861	.0350	-.70	-5.47	7.4	.4	1.35
9	.340	1173.26	2.98	327.	427.	446.	.973	.0350	-.30	.33	.0	.6	1.26
17	1.330	1145.83	1.91	778.	1871.	2079.	1.487	.0350	-.10	.28	.0	.5	.83
25	1.615	1136.02	2.16	787.	1561.	1732.	1.697	.0350	-.10	.38	.0	.5	1.02
33	1.900	1126.36	2.06	947.	2041.	2245.	1.946	.0350	-.10	.52	.0	.5	1.36
41	2.673	1099.15	1.86	1472.	3544.	3925.	2.735	.0350	-.10	.38	.0	.5	.81
49	3.216	1076.90	2.62	1253.	1765.	1767.	3.282	.0350	-.30	.72	.0	.5	1.42
57	3.345	1072.83	2.67	1273.	1733.	1754.	3.403	.0350	-.30	.75	.0	.5	1.47
65	3.473	1068.79	2.67	1323.	1772.	1824.	3.537	.0350	-.30	.82	.0	.5	1.55
73	3.602	1064.79	2.30	1612.	2775.	2936.	3.707	.0350	-.30	.90	.0	.5	1.67
81	3.730	1060.61	1.89	2039.	3070.	3363.	3.862	.0433	-.50	.50	.0	.4	1.61
89	4.250	1046.09	1.50	3105.	3637.	3990.	4.668	.0591	-1.00	1.14	.0	.3	2.09
97	5.053	1023.94	3.10	1966.	1568.	3232.	6.088	.0350	-1.00	2.06	.0	.5	3.44
105	5.500	1012.27	3.82	2325.	2046.	2046.	8.888	.0350	-.50	1.57	.0	.6	2.27
113	7.500	957.61	3.39	3265.	2724.	3040.	11.073	.0350	.00	1.49	.0	.5	2.11
121	8.650	925.36	5.90	2145.	2114.	2306.	12.646	.0350	.00	1.41	.0	1.0	1.76
129	10.250	896.51	1.77	8714.	6000.	6000.	15.384	.0350	.00	1.96	.0	.3	2.51
137	10.750	892.63	2.57	6514.	3543.	3543.	16.714	.0350	.00	2.57	.0	.3	3.13
145	11.250	888.27	2.78	6460.	3153.	3153.	17.929	.0350	.00	2.75	.0	.3	3.27

FRDM= 1.25 IIFR= 123 FRM= .26 IIFM= 102

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	10.200	861.2	1186.45	1185.10	1186.33	.61	275.0	861.2	861.2	.0	.0
104	0	10.200	8887.7	1019.67	1030.00	1012.27	1.00	.0	861.2	.0	.0	8887.7

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 10.3000 DTH = .1000 ITERR = 0
QU(1) = 794.69 YU(1) = 1186.41 QU(N) = 17330.26 YU(N) = 888.22

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.41	1.81	439.	569.	569.	.795	.0350	-.70	-5.52	6.8	.4	1.31
9	.340	1173.21	2.92	308.	415.	434.	.899	.0350	-.30	.29	.0	.6	1.21
17	1.330	1145.81	1.88	735.	1819.	2021.	1.379	.0350	-.10	.26	.0	.5	.81
25	1.615	1135.99	2.14	735.	1487.	1650.	1.573	.0350	-.10	.35	.0	.5	.99
33	1.900	1126.33	2.02	900.	1992.	2191.	1.815	.0350	-.10	.50	.0	.5	1.33
41	2.673	1099.13	1.83	1397.	3456.	3829.	2.550	.0350	-.10	.36	.0	.5	.79
49	3.216	1076.87	2.58	1193.	1722.	1724.	3.073	.0350	-.30	.68	.0	.5	1.39
57	3.345	1072.80	2.63	1211.	1691.	1711.	3.186	.0350	-.30	.72	.0	.5	1.43
65	3.473	1068.75	2.66	1242.	1671.	1719.	3.306	.0350	-.30	.77	.0	.5	1.50
73	3.602	1064.76	2.28	1522.	2654.	2808.	3.471	.0350	-.30	.87	.0	.5	1.64
81	3.730	1060.58	1.84	1960.	3051.	3342.	3.615	.0434	-.50	.47	.0	.4	1.58
89	4.250	1046.06	1.48	2986.	3473.	3807.	4.406	.0600	-1.00	1.11	.0	.3	2.06
97	5.053	1023.89	3.06	1890.	1535.	3180.	5.792	.0350	-1.00	2.01	.0	.5	3.39
105	5.500	1012.25	3.80	2280.	2026.	2026.	8.665	.0350	-.50	1.55	.0	.6	2.25
113	7.500	957.58	3.34	3180.	2715.	3030.	10.626	.0350	.00	1.46	.0	.5	2.08
121	8.650	925.33	5.87	2085.	2085.	2275.	12.231	.0350	.00	1.38	.0	1.0	1.73
129	10.250	896.49	1.75	8564.	6000.	6000.	14.974	.0350	.00	1.93	.0	.3	2.49
137	10.750	892.58	2.55	6357.	3493.	3493.	16.205	.0350	.00	2.53	.0	.3	3.08
145	11.250	888.22	2.75	6295.	3115.	3115.	17.330	.0350	.00	2.70	.0	.3	3.22

FRDM= 1.25 IIFR= 123 FRM= .26 IIFM= 129

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	10.300	794.7	1186.41	1185.10	1186.30	.59	275.0	794.7	794.7	.0	.0
104	0	10.300	8664.6	1019.50	1030.00	1012.25	1.00	.0	794.7	.0	.0	8664.6

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 10.4000 DTH = .1000 ITERR = 0
QU(1) = 734.48 YU(1) = 1186.36 QU(N) = 16779.07 YU(N) = 888.17

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.36	1.77	414.	545.	545.	.734	.0350	-.70	-5.56	6.3	.4	1.26
9	.340	1173.17	2.86	291.	403.	422.	.831	.0350	-.30	.24	.0	.6	1.17
17	1.330	1145.79	1.84	694.	1767.	1964.	1.279	.0350	-.10	.23	.0	.5	.79
25	1.615	1135.96	2.10	696.	1447.	1606.	1.461	.0350	-.10	.32	.0	.5	.96
33	1.900	1126.31	1.98	854.	1942.	2137.	1.691	.0350	-.10	.48	.0	.5	1.31
41	2.673	1099.11	1.79	1330.	3376.	3740.	2.386	.0350	-.10	.34	.0	.5	.77
49	3.216	1076.84	2.53	1135.	1680.	1682.	2.876	.0350	-.30	.65	.0	.5	1.35
57	3.345	1072.76	2.59	1153.	1650.	1670.	2.984	.0350	-.30	.68	.0	.5	1.40
65	3.473	1068.70	2.64	1170.	1603.	1648.	3.095	.0350	-.30	.73	.0	.5	1.46
73	3.602	1064.73	2.26	1439.	2538.	2684.	3.247	.0350	-.30	.84	.0	.5	1.60

81	3.730	1060.55	1.80	1884.	3032.	3322.	3.387	.0435	-.50	.45	.0	.4	1.55
89	4.250	1046.01	1.48	2825.	3238.	3542.	4.173	.0600	-1.00	1.06	.0	.3	2.01
97	5.053	1023.84	3.03	1816.	1503.	3129.	5.506	.0350	-1.00	1.96	.0	.5	3.34
105	5.500	1012.23	3.78	2230.	2003.	2003.	8.425	.0350	-.50	1.52	.0	.6	2.23
113	7.500	957.55	3.29	3093.	2706.	3020.	10.179	.0350	.00	1.43	.0	.5	2.05
121	8.650	925.30	5.84	2025.	2056.	2243.	11.817	.0350	.00	1.35	.0	1.0	1.70
129	10.250	896.46	1.73	8419.	6000.	6000.	14.575	.0350	.00	1.91	.0	.3	2.46
137	10.750	892.54	2.53	6212.	3445.	3445.	15.736	.0350	.00	2.49	.0	.3	3.04
145	11.250	888.17	2.73	6141.	3080.	3080.	16.779	.0350	.00	2.65	.0	.3	3.17

FRDM= 1.25 IIFR= 123 FRM= .26 IIFM= 129

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	10.400	734.5	1186.36	1185.10	1186.26	.58	275.0	734.5	734.5	.0	.0
104	0	10.400	8424.6	1019.32	1030.00	1012.23	1.00	.0	734.5	.0	.0	8424.6

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 10.5000 DTH = .1000 ITERR = 1
QU(1) = 680.55 YU(1) = 1186.32 QU(N) = 16274.64 YU(N) = 888.12

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.32	1.74	392.	522.	522.	.681	.0350	-.70	-5.60	5.8	.4	1.22
9	.340	1173.13	2.80	273.	392.	410.	.766	.0350	-.30	.20	.0	.6	1.13
17	1.330	1145.76	1.81	656.	1718.	1909.	1.185	.0350	-.10	.21	.0	.5	.76
25	1.615	1135.94	2.06	659.	1409.	1563.	1.359	.0350	-.10	.29	.0	.5	.94
33	1.900	1126.29	1.95	808.	1892.	2081.	1.573	.0350	-.10	.45	.0	.5	1.29
41	2.673	1099.09	1.77	1267.	3299.	3656.	2.238	.0350	-.10	.32	.0	.5	.76
49	3.216	1076.80	2.49	1080.	1639.	1641.	2.693	.0350	-.30	.62	.0	.5	1.32
57	3.345	1072.73	2.55	1098.	1610.	1629.	2.796	.0350	-.30	.65	.0	.5	1.36
65	3.473	1068.66	2.61	1109.	1560.	1605.	2.900	.0350	-.30	.69	.0	.5	1.42
73	3.602	1064.69	2.24	1360.	2422.	2562.	3.045	.0350	-.30	.81	.0	.5	1.57
81	3.730	1060.53	1.75	1812.	3015.	3302.	3.179	.0436	-.50	.42	.0	.4	1.53
89	4.250	1045.96	1.46	2665.	3115.	3406.	3.900	.0600	-1.00	1.01	.0	.3	1.96
97	5.053	1023.79	3.00	1743.	1470.	3078.	5.229	.0350	-1.00	1.91	.0	.5	3.29
105	5.500	1012.20	3.75	2176.	1979.	1979.	8.168	.0350	-.50	1.49	.0	.6	2.20
113	7.500	957.52	3.25	3013.	2698.	3011.	9.779	.0350	.00	1.40	.0	.5	2.02
121	8.650	925.27	5.81	1963.	2025.	2209.	11.396	.0350	.00	1.32	.0	1.0	1.67
129	10.250	896.44	1.71	8274.	6000.	6000.	14.170	.0350	.00	1.88	.0	.3	2.44
137	10.750	892.50	2.52	6076.	3400.	3400.	15.299	.0350	.00	2.45	.0	.3	3.00
145	11.250	888.12	2.71	5995.	3045.	3045.	16.275	.0350	.00	2.60	.0	.3	3.12

FRDM= 1.25 IIFR= 123 FRM= .26 IIFM= 129

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	10.500	680.5	1186.32	1185.10	1186.22	.56	275.0	680.5	680.5	.0	.0
104	1	10.500	8167.9	1019.13	1030.00	1012.20	1.00	.0	680.5	.0	.0	8167.9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 10.6000 DTH = .1000 ITERR = 1
QU(1) = 631.57 YU(1) = 1186.28 QU(N) = 15801.57 YU(N) = 888.07

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.28	1.70	371.	501.	501.	.632	.0350	-.70	-5.64	5.4	.3	1.18
9	.340	1173.09	2.75	258.	381.	399.	.710	.0350	-.30	.16	.0	.6	1.09
17	1.330	1145.74	1.77	619.	1670.	1855.	1.099	.0350	-.10	.19	.0	.5	.74
25	1.615	1135.91	2.02	623.	1370.	1520.	1.262	.0350	-.10	.27	.0	.5	.91
33	1.900	1126.26	1.91	766.	1845.	2030.	1.465	.0350	-.10	.43	.0	.5	1.26
41	2.673	1099.07	1.74	1208.	3226.	3575.	2.098	.0350	-.10	.31	.0	.5	.74
49	3.216	1076.77	2.45	1028.	1599.	1601.	2.522	.0350	-.30	.59	.0	.5	1.29
57	3.345	1072.69	2.51	1045.	1571.	1590.	2.618	.0350	-.30	.62	.0	.5	1.33
65	3.473	1068.63	2.57	1057.	1523.	1566.	2.718	.0350	-.30	.65	.0	.5	1.39
73	3.602	1064.66	2.22	1285.	2307.	2440.	2.852	.0350	-.30	.78	.0	.5	1.54
81	3.730	1060.51	1.71	1743.	2998.	3283.	2.981	.0437	-.50	.40	.0	.4	1.51
89	4.250	1045.92	1.44	2536.	3031.	3314.	3.662	.0600	-1.00	.96	.0	.3	1.92
97	5.053	1023.75	2.97	1674.	1438.	3028.	4.968	.0350	-1.00	1.87	.0	.5	3.24
105	5.500	1012.17	3.73	2119.	1953.	1953.	7.897	.0350	-.50	1.46	.0	.6	2.17
113	7.500	957.50	3.21	2949.	2692.	3003.	9.458	.0350	.00	1.37	.0	.5	2.00
121	8.650	925.24	5.77	1900.	1993.	2175.	10.969	.0350	.00	1.29	.0	1.0	1.64
129	10.250	896.41	1.69	8129.	6000.	6000.	13.774	.0350	.00	1.86	.0	.3	2.41
137	10.750	892.46	2.50	5948.	3366.	3366.	14.877	.0350	.00	2.41	.0	.3	2.96
145	11.250	888.07	2.70	5859.	3013.	3013.	15.802	.0350	.00	2.56	.0	.3	3.07

FRDM= 1.25 IIFR= 123 FRM= .26 IIFM= 129

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	10.600	631.6	1186.28	1185.10	1186.19	.55	275.0	631.6	631.6	.0	.0
104	1	10.600	7897.2	1018.92	1030.00	1012.17	1.00	.0	631.6	.0	.0	7897.2

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 10.7000 DTH = .1000 ITERR = 1
QU(1) = 587.77 YU(1) = 1186.24 QU(N) = 15357.81 YU(N) = 888.03

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.24	1.67	352.	480.	480.	.588	.0350	-.70	-5.68	5.0	.3	1.14
9	.340	1173.05	2.70	245.	372.	389.	.660	.0350	-.30	.12	.0	.6	1.05
17	1.330	1145.72	1.74	586.	1624.	1805.	1.021	.0350	-.10	.17	.0	.5	.72
25	1.615	1135.89	1.99	590.	1333.	1479.	1.174	.0350	-.10	.24	.0	.5	.89
33	1.900	1126.24	1.88	728.	1800.	1980.	1.366	.0350	-.10	.41	.0	.5	1.24
41	2.673	1099.05	1.71	1153.	3155.	3498.	1.972	.0350	-.10	.29	.0	.5	.72
49	3.216	1076.74	2.41	980.	1561.	1563.	2.366	.0350	-.30	.56	.0	.5	1.26
57	3.345	1072.66	2.47	996.	1533.	1552.	2.456	.0350	-.30	.58	.0	.5	1.30
65	3.473	1068.60	2.53	1007.	1487.	1529.	2.549	.0350	-.30	.62	.0	.5	1.35
73	3.602	1064.63	2.21	1212.	2189.	2315.	2.676	.0350	-.30	.74	.0	.5	1.51
81	3.730	1060.49	1.67	1679.	2983.	3266.	2.800	.0438	-.50	.38	.0	.4	1.49
89	4.250	1045.88	1.43	2419.	2952.	3227.	3.452	.0600	-1.00	.93	.0	.3	1.88
97	5.053	1023.70	2.94	1608.	1403.	2976.	4.728	.0350	-1.00	1.82	.0	.5	3.19
105	5.500	1012.14	3.70	2060.	1925.	1925.	7.613	.0350	-.50	1.43	.0	.6	2.14
113	7.500	957.48	3.18	2897.	2687.	2997.	9.205	.0350	.00	1.35	.0	.5	1.98
121	8.650	925.21	5.74	1837.	1961.	2140.	10.550	.0350	.00	1.26	.0	1.0	1.61

129	10.250	896.39	1.68	7985.	6000.	6000.	13.381	.0350	.00	1.84	.0	.3	2.39
137	10.750	892.43	2.48	5824.	3332.	3332.	14.472	.0350	.00	2.37	.0	.3	2.93
145	11.250	888.03	2.68	5731.	2982.	2982.	15.358	.0350	.00	2.52	.0	.3	3.03

FRDM= 1.25 IIFR= 123 FRM= .26 IIFM= 129

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	10.700	587.8	1186.24	1185.10	1186.16	.53	275.0	587.8	587.8	.0	.0
104	1	10.700	7612.9	1018.70	1030.00	1012.14	1.00	.0	587.8	.0	.0	7612.9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 10.8000 DTH = .1000 ITERR = 1
QU(1) = 548.15 YU(1) = 1186.21 QU(N) = 14934.63 YU(N) = 887.99

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.21	1.63	335.	461.	461.	.548	.0350	-.70	-5.72	4.7	.3	1.11
9	.340	1173.02	2.65	232.	363.	380.	.614	.0350	-.30	.09	.0	.6	1.02
17	1.330	1145.70	1.71	555.	1580.	1756.	.950	.0350	-.10	.15	.0	.5	.70
25	1.615	1135.86	1.95	560.	1298.	1440.	1.091	.0350	-.10	.22	.0	.5	.86
33	1.900	1126.22	1.84	690.	1756.	1931.	1.270	.0350	-.10	.39	.0	.5	1.22
41	2.673	1099.04	1.68	1102.	3088.	3424.	1.853	.0350	-.10	.27	.0	.5	.70
49	3.216	1076.71	2.38	935.	1525.	1527.	2.224	.0350	-.30	.53	.0	.5	1.23
57	3.345	1072.63	2.43	950.	1498.	1516.	2.307	.0350	-.30	.55	.0	.5	1.27
65	3.473	1068.57	2.49	960.	1452.	1493.	2.393	.0350	-.30	.59	.0	.5	1.32
73	3.602	1064.60	2.19	1143.	2071.	2190.	2.509	.0350	-.30	.71	.0	.5	1.48
81	3.730	1060.47	1.63	1617.	2967.	3249.	2.632	.0438	-.50	.36	.0	.4	1.47
89	4.250	1045.84	1.40	2323.	2887.	3155.	3.246	.0600	-1.00	.89	.0	.3	1.84
97	5.053	1023.65	2.91	1543.	1368.	2924.	4.497	.0350	-1.00	1.77	.0	.5	3.15
105	5.500	1012.11	3.66	1997.	1896.	1896.	7.317	.0350	-.50	1.40	.0	.6	2.11
113	7.500	957.46	3.15	2853.	2682.	2992.	8.986	.0350	.00	1.34	.0	.5	1.96
121	8.650	925.18	5.71	1778.	1930.	2106.	10.147	.0350	.00	1.23	.0	1.0	1.58
129	10.250	896.37	1.66	7841.	6000.	6000.	12.989	.0350	.00	1.81	.0	.3	2.37
137	10.750	892.39	2.47	5704.	3298.	3298.	14.074	.0350	.00	2.34	.0	.3	2.89
145	11.250	887.99	2.66	5609.	2952.	2952.	14.935	.0350	.00	2.48	.0	.3	2.99

FRDM= 1.25 IIFR= 123 FRM= .26 IIFM= 129

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	10.800	548.1	1186.21	1185.10	1186.13	.52	275.0	548.1	548.1	.0	.0
104	1	10.800	7317.2	1018.48	1030.00	1012.11	1.00	.0	548.1	.0	.0	7317.2

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 10.9000 DTH = .1000 ITERR = 1
QU(1) = 512.18 YU(1) = 1186.17 QU(N) = 14527.80 YU(N) = 887.95

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.17	1.60	320.	442.	442.	.512	.0350	-.70	-5.75	4.4	.3	1.07
9	.340	1172.98	2.60	220.	354.	370.	.572	.0350	-.30	.06	.0	.6	.98
17	1.330	1145.68	1.68	526.	1538.	1709.	.883	.0350	-.10	.13	.0	.5	.68
25	1.615	1135.84	1.92	529.	1262.	1400.	1.017	.0350	-.10	.20	.0	.5	.84
33	1.900	1126.20	1.80	655.	1713.	1884.	1.180	.0350	-.10	.37	.0	.5	1.20
41	2.673	1099.02	1.66	1052.	3021.	3350.	1.741	.0350	-.10	.26	.0	.5	.69
49	3.216	1076.68	2.34	894.	1491.	1493.	2.094	.0350	-.30	.50	.0	.5	1.20
57	3.345	1072.60	2.39	908.	1464.	1481.	2.171	.0350	-.30	.53	.0	.5	1.24
65	3.473	1068.54	2.45	917.	1419.	1459.	2.251	.0350	-.30	.56	.0	.5	1.29
73	3.602	1064.56	2.19	1076.	1951.	2062.	2.356	.0350	-.30	.68	.0	.5	1.44
81	3.730	1060.45	1.59	1557.	2953.	3232.	2.471	.0439	-.50	.34	.0	.4	1.45
89	4.250	1045.82	1.36	2246.	2833.	3096.	3.058	.0600	-1.00	.87	.0	.3	1.82
97	5.053	1023.60	2.89	1478.	1331.	2870.	4.266	.0350	-1.00	1.73	.0	.5	3.10
105	5.500	1012.07	3.63	1932.	1865.	1865.	7.012	.0350	-.50	1.37	.0	.6	2.07
113	7.500	957.44	3.12	2810.	2678.	2987.	8.773	.0350	.00	1.32	.0	.5	1.94
121	8.650	925.15	5.66	1727.	1902.	2076.	9.782	.0350	.00	1.20	.0	1.0	1.55
129	10.250	896.34	1.64	7695.	6000.	6000.	12.598	.0350	.00	1.79	.0	.3	2.34
137	10.750	892.35	2.45	5584.	3265.	3265.	13.682	.0350	.00	2.30	.0	.3	2.85
145	11.250	887.95	2.65	5492.	2924.	2924.	14.528	.0350	.00	2.44	.0	.3	2.95

FRDM= 1.24 IIFR= 123 FRM= .25 IIFM= 129

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	10.900	512.2	1186.17	1185.10	1186.10	.51	275.0	512.2	512.2	.0	.0
104	1	10.900	7012.3	1018.25	1030.00	1012.07	1.00	.0	512.2	.0	.0	7012.3

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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L= 1 KSP= 0 KS1= 1 KSN=145

TT = 11.0000 DTH = .1000 ITERR = 1
QU(1) = 512.18 YU(1) = 1186.14 QU(N) = 14130.35 YU(N) = 887.91

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.14	1.68	305.	424.	424.	.512	.0350	-.70	-5.79	4.2	.3	1.04
9	.340	1172.95	2.56	209.	346.	362.	.534	.0350	-.30	.03	.0	.6	.95
17	1.330	1145.67	1.65	498.	1497.	1663.	.822	.0350	-.10	.11	.0	.5	.67
25	1.615	1135.82	1.89	502.	1229.	1364.	.947	.0350	-.10	.17	.0	.5	.82
33	1.900	1126.18	1.77	621.	1670.	1837.	1.099	.0350	-.10	.35	.0	.5	1.18
41	2.673	1099.00	1.63	1005.	2956.	3279.	1.636	.0350	-.10	.24	.0	.5	.67
49	3.216	1076.66	2.31	855.	1458.	1460.	1.973	.0350	-.30	.47	.0	.5	1.17
57	3.345	1072.58	2.36	868.	1431.	1449.	2.046	.0350	-.30	.50	.0	.5	1.21
65	3.473	1068.51	2.42	877.	1387.	1427.	2.120	.0350	-.30	.53	.0	.5	1.26
73	3.602	1064.53	2.19	1014.	1830.	1935.	2.216	.0350	-.30	.64	.0	.5	1.41
81	3.730	1060.43	1.55	1500.	2938.	3217.	2.324	.0440	-.50	.32	.0	.4	1.43
89	4.250	1045.79	1.33	2174.	2781.	3039.	2.883	.0600	-1.00	.84	.0	.3	1.79
97	5.053	1023.55	2.86	1413.	1293.	2815.	4.040	.0350	-1.00	1.68	.0	.5	3.05
105	5.500	1012.04	3.59	1864.	1832.	1832.	6.701	.0350	-.50	1.33	.0	.6	2.04
113	7.500	957.43	3.09	2765.	2673.	2981.	8.550	.0350	.00	1.31	.0	.5	1.93
121	8.650	925.13	5.62	1685.	1880.	2052.	9.469	.0350	.00	1.18	.0	1.0	1.53
129	10.250	896.32	1.62	7541.	6000.	6000.	12.207	.0350	.00	1.76	.0	.3	2.32
137	10.750	892.32	2.43	5465.	3231.	3231.	13.296	.0350	.00	2.26	.0	.3	2.82
145	11.250	887.91	2.63	5378.	2896.	2896.	14.130	.0350	.00	2.40	.0	.3	2.91

FRDM= 1.24 IIFR= 123 FRM= .25 IIFM= 91

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	11.000	512.2	1186.14	1185.10	1186.10	.50	275.0	512.2	512.2	.0	.0
104	1	11.000	6701.2	1018.01	1030.00	1012.04	1.00	.0	512.2	.0	.0	6701.2

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 11.1000 DTH = .1000 ITERR = 1
QU(1) = 512.18 YU(1) = 1186.11 QU(N) = 13741.39 YU(N) = 887.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.11	1.75	292.	407.	407.	.512	.0350	-.70	-5.82	4.2	.4	1.01
9	.340	1172.93	2.52	201.	339.	355.	.506	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.65	1.62	473.	1459.	1621.	.767	.0350	-.10	.10	.0	.5	.65
25	1.615	1135.80	1.85	477.	1199.	1330.	.883	.0350	-.10	.15	.0	.5	.80
33	1.900	1126.16	1.74	590.	1631.	1794.	1.029	.0350	-.10	.33	.0	.5	1.16
41	2.673	1098.99	1.61	961.	2896.	3213.	1.543	.0350	-.10	.22	.0	.5	.66
49	3.216	1076.63	2.27	818.	1426.	1428.	1.859	.0350	-.30	.45	.0	.5	1.15
57	3.345	1072.55	2.32	830.	1400.	1417.	1.929	.0350	-.30	.47	.0	.5	1.19
65	3.473	1068.48	2.38	839.	1357.	1396.	2.000	.0350	-.30	.50	.0	.5	1.24
73	3.602	1064.50	2.19	954.	1708.	1805.	2.090	.0350	-.30	.61	.0	.5	1.38
81	3.730	1060.41	1.52	1448.	2925.	3202.	2.193	.0441	-.50	.30	.0	.4	1.41
89	4.250	1045.76	1.30	2089.	2720.	2972.	2.723	.0600	-1.00	.81	.0	.3	1.76
97	5.053	1023.51	2.84	1353.	1258.	2762.	3.835	.0350	-1.00	1.63	.0	.5	3.00
105	5.500	1012.00	3.56	1796.	1798.	1798.	6.387	.0350	-.50	1.29	.0	.6	2.00
113	7.500	957.41	3.06	2717.	2668.	2975.	8.315	.0350	.00	1.29	.0	.5	1.91
121	8.650	925.12	5.57	1654.	1863.	2034.	9.208	.0350	.00	1.16	.0	1.0	1.52
129	10.250	896.29	1.60	7374.	6000.	6000.	11.815	.0350	.00	1.73	.0	.3	2.29
137	10.750	892.28	2.42	5347.	3198.	3198.	12.914	.0350	.00	2.23	.0	.3	2.78
145	11.250	887.87	2.61	5266.	2868.	2868.	13.741	.0350	.00	2.36	.0	.3	2.87

FRDM= 1.24 IIFR= 123 FRM= .25 IIFM= 91

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	11.100	512.2	1186.11	1185.10	1186.10	.21	275.0	512.2	512.2	.0	.0
104	1	11.100	6386.9	1017.77	1030.00	1012.00	1.00	.0	512.2	.0	.0	6386.9

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IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
                    NONCONVERGENCE OCCURRED AT CROSS-SECTION NO.     3    4    5    6    7    8    9   10   11
                                    TT=   11.1000     DTH=     .1000     ITERR= 9

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L=    1     KSP=  0     KS1=  1     KSN=145
```

TT = 11.1500 DTH = .0500 ITERR = 1

QU(1) = 512.18 YU(1) = 1186.09 QU(N) = 13550.19 YU(N) = 887.85

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.09	1.79	286.	399.	399.	.512	.0350	-.70	-5.83	2.1	.4	.99
9	.340	1172.93	2.53	201.	340.	356.	.510	.0350	-.30	.00	.0	.6	.93
17	1.330	1145.64	1.61	461.	1440.	1600.	.742	.0350	-.10	.09	.0	.5	.64
25	1.615	1135.79	1.83	466.	1184.	1314.	.853	.0350	-.10	.14	.0	.5	.79
33	1.900	1126.15	1.73	575.	1612.	1773.	.995	.0350	-.10	.32	.0	.5	1.15
41	2.673	1098.98	1.59	941.	2867.	3181.	1.498	.0350	-.10	.22	.0	.5	.65
49	3.216	1076.62	2.26	800.	1410.	1412.	1.805	.0350	-.30	.43	.0	.5	1.13
57	3.345	1072.54	2.31	812.	1385.	1402.	1.873	.0350	-.30	.46	.0	.5	1.17
65	3.473	1068.47	2.37	821.	1342.	1380.	1.942	.0350	-.30	.49	.0	.5	1.22
73	3.602	1064.48	2.19	923.	1641.	1734.	2.026	.0350	-.30	.59	.0	.5	1.36
81	3.730	1060.40	1.50	1423.	2919.	3195.	2.132	.0441	-.50	.29	.0	.4	1.40
89	4.250	1045.74	1.29	2046.	2688.	2937.	2.643	.0600	-1.00	.79	.0	.3	1.74
97	5.053	1023.49	2.83	1325.	1241.	2738.	3.743	.0350	-1.00	1.61	.0	.5	2.98
105	5.500	1011.98	3.54	1761.	1781.	1781.	6.229	.0350	-.50	1.27	.0	.6	1.98
113	7.500	957.40	3.04	2691.	2666.	2972.	8.193	.0350	.00	1.28	.0	.5	1.90
121	8.650	925.11	5.54	1640.	1856.	2026.	9.091	.0350	.00	1.15	.0	1.0	1.51
129	10.250	896.27	1.59	7288.	6000.	6000.	11.617	.0350	.00	1.72	.0	.3	2.27
137	10.750	892.26	2.41	5288.	3181.	3181.	12.723	.0350	.00	2.21	.0	.3	2.76
145	11.250	887.85	2.60	5210.	2854.	2854.	13.550	.0350	.00	2.34	.0	.3	2.85

FRDM= 1.23 IIFR= 123 FRM= .25 IIFM= 91

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	11.150	512.2	1186.09	1185.10	1186.10	.05	275.0	512.2	512.2	.0	.0
104	1	11.150	6229.3	1017.65	1030.00	1011.98	1.00	.0	512.2	.0	.0	6229.3

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

L= 1 KSP= 0 KS1= 1 KSN=145

TT = 11.2000 DTH = .0500 ITERR = 0

QU(1) = 602.40 YU(1) = 1186.07 QU(N) = 13354.78 YU(N) = 887.83

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.07	2.17	277.	387.	387.	.602	.0350	-.70	-5.85	2.3	.5	.97
9	.340	1172.94	2.54	203.	341.	357.	.516	.0350	-.30	.01	.0	.6	.94
17	1.330	1145.63	1.59	448.	1419.	1577.	.713	.0350	-.10	.08	.0	.5	.63
25	1.615	1135.78	1.82	453.	1168.	1296.	.824	.0350	-.10	.13	.0	.5	.78
33	1.900	1126.14	1.71	560.	1591.	1750.	.959	.0350	-.10	.31	.0	.5	1.14
41	2.673	1098.98	1.58	921.	2839.	3150.	1.457	.0350	-.10	.21	.0	.5	.64
49	3.216	1076.61	2.24	782.	1395.	1396.	1.752	.0350	-.30	.42	.0	.5	1.12
57	3.345	1072.52	2.29	795.	1370.	1386.	1.819	.0350	-.30	.45	.0	.5	1.16
65	3.473	1068.45	2.35	803.	1328.	1365.	1.887	.0350	-.30	.48	.0	.5	1.21
73	3.602	1064.46	2.20	894.	1574.	1664.	1.967	.0350	-.30	.57	.0	.5	1.34
81	3.730	1060.39	1.48	1398.	2913.	3188.	2.069	.0441	-.50	.28	.0	.4	1.39
89	4.250	1045.73	1.28	2004.	2656.	2902.	2.567	.0600	-1.00	.78	.0	.3	1.73
97	5.053	1023.46	2.82	1299.	1225.	2714.	3.657	.0350	-1.00	1.59	.0	.5	2.96
105	5.500	1011.96	3.52	1727.	1763.	1763.	6.072	.0350	-.50	1.25	.0	.6	1.96
113	7.500	957.39	3.03	2665.	2663.	2969.	8.069	.0350	.00	1.27	.0	.5	1.89
121	8.650	925.10	5.52	1628.	1849.	2018.	8.981	.0350	.00	1.15	.0	1.0	1.50
129	10.250	896.26	1.59	7202.	6000.	6000.	11.420	.0350	.00	1.70	.0	.3	2.26
137	10.750	892.24	2.40	5228.	3164.	3164.	12.532	.0350	.00	2.19	.0	.3	2.74
145	11.250	887.83	2.59	5157.	2840.	2840.	13.355	.0350	.00	2.32	.0	.3	2.83

FRDM= 1.23 IIFR= 123 FRM= .25 IIFM= 91

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	11.200	602.4	1186.07	1185.10	1186.17	.05	275.0	602.4	602.4	.0	.0
104	0	11.200	6072.4	1017.53	1030.00	1011.96	1.00	.0	602.4	.0	.0	6072.4

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 11.3000 DTH = .1000 ITERR = 5
QU(1) = 602.40 YU(1) = 1186.05 QU(N) = 12980.03 YU(N) = 887.79

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.05	2.23	270.	377.	377.	.602	.0350	-.70	-5.87	5.0	.5	.95
9	.340	1172.94	2.54	203.	341.	357.	.516	.0350	-.30	.01	.0	.6	.94
17	1.330	1145.62	1.57	426.	1385.	1539.	.669	.0350	-.10	.06	.0	.5	.62
25	1.615	1135.76	1.79	430.	1137.	1262.	.770	.0350	-.10	.11	.0	.5	.76
33	1.900	1126.13	1.67	532.	1554.	1709.	.890	.0350	-.10	.29	.0	.5	1.13
41	2.673	1098.96	1.56	883.	2783.	3089.	1.375	.0350	-.10	.20	.0	.5	.63
49	3.216	1076.58	2.21	748.	1364.	1366.	1.653	.0350	-.30	.40	.0	.5	1.10
57	3.345	1072.50	2.26	760.	1340.	1356.	1.716	.0350	-.30	.42	.0	.5	1.14
65	3.473	1068.43	2.32	769.	1299.	1336.	1.780	.0350	-.30	.45	.0	.5	1.18
73	3.602	1064.42	2.22	835.	1432.	1513.	1.856	.0350	-.30	.53	.0	.5	1.30
81	3.730	1060.37	1.45	1350.	2901.	3175.	1.952	.0442	-.50	.27	.0	.4	1.37
89	4.250	1045.70	1.26	1924.	2595.	2835.	2.426	.0600	-1.00	.75	.0	.3	1.70
97	5.053	1023.42	2.80	1250.	1194.	2669.	3.497	.0350	-1.00	1.55	.0	.5	2.92
105	5.500	1011.92	3.48	1657.	1727.	1727.	5.762	.0350	-.50	1.21	.0	.6	1.92
113	7.500	957.37	2.99	2611.	2657.	2963.	7.817	.0350	.00	1.25	.0	.5	1.87
121	8.650	925.09	5.48	1601.	1834.	2002.	8.766	.0350	.00	1.13	.0	1.0	1.49
129	10.250	896.23	1.57	7027.	6000.	6000.	11.031	.0350	.00	1.68	.0	.3	2.23
137	10.750	892.20	2.38	5109.	3129.	3129.	12.151	.0350	.00	2.15	.0	.3	2.70
145	11.250	887.79	2.57	5048.	2812.	2812.	12.980	.0350	.00	2.28	.0	.3	2.79

FRDM= 1.22 IIFR= 123 FRM= .25 IIFM= 91

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	5	11.300	602.4	1186.05	1185.10	1186.17	.05	275.0	602.4	602.4	.0	.0
104	5	11.300	5762.5	1017.30	1030.00	1011.92	1.00	.0	602.4	.0	.0	5762.5

IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
IFR= 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
L= 1 KSP= 0 KS1= 1 KSN=145

TT = 11.4000 DTH = .1000 ITERR = 5
QU(1) = 602.40 YU(1) = 1186.03 QU(N) = 12601.82 YU(N) = 887.76

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1186.03	2.30	262.	365.	365.	.602	.0350	-.70	-5.89	5.0	.5	.93
9	.340	1172.94	2.54	203.	341.	357.	.516	.0350	-.30	.01	.0	.6	.94

17	1.330	1145.60	1.55	407.	1353.	1503.	.629	.0350	-.10	.05	.0	.5	.60
25	1.615	1135.74	1.77	407.	1107.	1228.	.720	.0350	-.10	.09	.0	.5	.74
33	1.900	1126.11	1.64	508.	1521.	1673.	.835	.0350	-.10	.28	.0	.5	1.11
41	2.673	1098.95	1.54	847.	2731.	3031.	1.301	.0350	-.10	.18	.0	.5	.62
49	3.216	1076.56	2.18	717.	1335.	1337.	1.560	.0350	-.30	.37	.0	.5	1.07
57	3.345	1072.47	2.22	728.	1311.	1327.	1.619	.0350	-.30	.40	.0	.5	1.11
65	3.473	1068.40	2.28	736.	1271.	1307.	1.680	.0350	-.30	.42	.0	.5	1.16
73	3.602	1064.38	2.26	773.	1265.	1336.	1.749	.0350	-.30	.49	.0	.5	1.25
81	3.730	1060.36	1.41	1308.	2890.	3163.	1.848	.0442	-.50	.25	.0	.4	1.36
89	4.250	1045.67	1.24	1849.	2537.	2770.	2.298	.0600	-1.00	.72	.0	.3	1.67
97	5.053	1023.38	2.78	1203.	1164.	2624.	3.339	.0350	-1.00	1.51	.0	.5	2.88
105	5.500	1011.88	3.44	1589.	1691.	1691.	5.462	.0350	-.50	1.17	.0	.6	1.88
113	7.500	957.35	2.96	2552.	2651.	2956.	7.554	.0350	.00	1.23	.0	.5	1.85
121	8.650	925.07	5.45	1570.	1816.	1983.	8.549	.0350	.00	1.11	.0	1.0	1.47
129	10.250	896.20	1.55	6854.	6000.	6000.	10.651	.0350	.00	1.65	.0	.3	2.20
137	10.750	892.17	2.36	4989.	3093.	3093.	11.770	.0350	.00	2.11	.0	.3	2.67
145	11.250	887.76	2.55	4938.	2784.	2784.	12.602	.0350	.00	2.24	.0	.3	2.76

FRDM= 1.22 IIFR= 123 FRM= .25 IIFM= 91

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	5	11.400	602.4	1186.03	1185.10	1186.17	.05	275.0	602.4	602.4	.0	.0
104	5	11.400	5461.9	1017.07	1030.00	1011.88	1.00	.0	602.4	.0	.0	5461.9

NORMALIZED CONSERVATION OF MASS AS PERCENT OF MAX FLOW IN REACH = -1.86

ROUTING COMPLETED.

KTIME= 123 ALLOWABLE KTIME= 699 TT= 11.5

PROFILE OF CRESTS AND TIMES FOR BREACH 2-SENARIO 3
BELOW WHITE TANKS FRS #3

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
********	********	********	********	********	**********	**********
.000	1212.14	97378	4.200	2.30	.00	.00
.010	1191.71	97378	4.700	9.59	1187.00	3.80
.057	1189.70	96652	4.700	9.62	1185.00	3.80
.105	1187.64	95938	4.700	9.65	1183.00	3.80
.153	1185.53	95227	4.700	9.73	1181.00	3.90

	MAX ELV	MAX CFS	MAX Time			
.200	1183.67	94510	4.700	9.09	1179.00	3.90
.247	1182.01	93795	4.700	8.87	1177.44	3.90
.293	1180.36	93052	4.700	8.67	1175.89	3.90
.340	1178.71	92275	4.700	8.48	1174.33	4.00
.387	1177.08	91646	4.800	8.30	1172.78	4.00
.433	1175.45	92083	4.800	8.16	1171.22	4.00
.480	1173.83	92425	4.800	8.05	1169.67	4.10
.527	1172.20	92668	4.800	7.95	1168.11	4.10
.573	1170.58	92795	4.800	7.84	1166.56	4.10
.620	1168.94	92825	4.800	7.77	1165.00	4.10
.975	1159.00	89866	4.800	5.95	1155.50	4.20
1.330	1148.90	89734	4.900	5.99	1146.00	4.30
1.366	1147.70	89461	4.900	5.94	1144.75	4.30
1.401	1146.48	89132	4.900	5.88	1143.50	4.30
1.437	1145.27	88758	4.900	5.83	1142.25	4.30
1.473	1144.04	88353	4.900	5.78	1141.00	4.30
1.508	1142.82	87918	4.900	5.73	1139.75	4.30
1.544	1141.59	87468	5.000	5.68	1138.50	4.40
1.579	1140.37	87732	5.000	5.64	1137.25	4.40
1.615	1139.14	87951	5.000	5.62	1136.00	4.40
1.651	1137.91	88128	5.000	5.59	1134.75	4.40
1.686	1136.67	88269	5.000	5.56	1133.50	4.40
1.722	1135.44	88371	5.000	5.53	1132.25	4.40
1.757	1134.20	88435	5.000	5.50	1131.00	4.40
1.793	1132.96	88452	5.000	5.47	1129.75	4.40
1.829	1131.71	88423	5.000	5.44	1128.50	4.40
1.864	1130.47	88330	5.000	5.39	1127.25	4.40
1.900	1129.20	88177	5.000	5.40	1126.00	4.40
1.997	1125.71	87255	5.000	5.38	1122.61	4.50
2.093	1122.24	86925	5.100	5.34	1119.22	4.60
2.190	1118.78	87662	5.100	5.37	1115.83	4.60
2.287	1115.33	87651	5.100	5.34	1112.44	4.60
2.383	1111.84	86669	5.100	5.36	1109.06	4.70
2.480	1108.39	85435	5.200	5.25	1105.67	4.70
2.577	1104.91	86190	5.200	5.35	1102.28	4.80
2.673	1101.52	86172	5.200	5.20	1098.89	4.80
2.770	1097.98	85333	5.200	5.40	1095.50	4.80
2.842	1095.11	84320	5.200	5.64	1092.58	4.90
2.913	1092.27	84367	5.300	5.77	1089.67	4.90
2.985	1089.31	84599	5.300	6.18	1086.75	5.00
3.057	1086.47	84586	5.312	6.15	1083.83	5.00
3.128	1083.35	84525	5.312	6.84	1080.92	5.00
3.200	1080.72	84362	5.312	6.12	1078.00	5.00

PROFILE OF CRESTS AND TIMES FOR BREACH 2-SENARIO 3
BELOW WHITE TANKS FRS #3

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
********	********	********	********	********	**********	**********
3.216	1080.20	84357	5.312	6.13	1077.48	5.00
3.232	1079.68	84381	5.312	6.14	1076.97	5.00
3.248	1079.16	84406	5.300	6.14	1076.45	5.00
3.264	1078.64	84432	5.300	6.15	1075.94	5.00
3.280	1078.12	84457	5.300	6.16	1075.42	5.10
3.296	1077.60	84484	5.300	6.16	1074.91	5.10
3.312	1077.08	84510	5.300	6.17	1074.39	5.10
3.328	1076.56	84533	5.300	6.18	1073.88	5.10
3.345	1076.03	84550	5.300	6.18	1073.36	5.10
3.361	1075.51	84558	5.300	6.19	1072.85	5.10

3.377	1074.99	84550	5.300	6.20	1072.33	5.10
3.393	1074.47	84526	5.312	6.20	1071.82	5.10
3.409	1073.95	84485	5.312	6.20	1071.30	5.10
3.425	1073.42	84421	5.312	6.20	1070.79	5.10
3.441	1072.90	84329	5.312	6.20	1070.27	5.10
3.457	1072.38	84216	5.312	6.20	1069.76	5.10
3.473	1071.85	84151	5.312	6.20	1069.24	5.10
3.489	1071.33	84061	5.312	6.19	1068.73	5.10
3.505	1070.80	83942	5.400	6.19	1068.21	5.10
3.521	1070.28	83788	5.400	6.18	1067.70	5.10
3.537	1069.76	83598	5.400	6.18	1067.18	5.10
3.553	1069.25	83604	5.400	6.17	1066.67	5.10
3.569	1068.73	83685	5.400	6.16	1066.15	5.10
3.585	1068.21	83762	5.400	6.15	1065.64	5.10
3.602	1067.69	83827	5.400	6.14	1065.12	5.10
3.618	1067.17	83881	5.400	6.13	1064.61	5.10
3.634	1066.65	83928	5.400	6.12	1064.09	5.20
3.650	1066.13	83960	5.400	6.11	1063.58	5.20
3.666	1065.61	83971	5.400	6.09	1063.06	5.20
3.682	1065.09	83966	5.400	6.07	1062.55	5.20
3.698	1064.57	83938	5.400	6.01	1062.03	5.20
3.714	1064.06	83865	5.400	5.93	1061.52	5.20
3.730	1063.57	83769	5.400	5.80	1061.00	5.20
3.795	1061.56	83159	5.400	5.64	1059.13	5.20
3.860	1059.59	82492	5.500	5.55	1057.25	5.20
3.925	1057.63	82842	5.500	5.46	1055.38	5.20
3.990	1055.70	82902	5.500	5.37	1053.50	5.30
4.055	1053.75	83331	5.500	5.32	1051.63	5.30
4.120	1051.84	83464	5.500	5.20	1049.75	5.30
4.185	1049.93	85152	5.500	5.19	1047.88	5.30
4.250	1048.00	85632	5.500	5.17	1046.00	5.30
4.423	1042.92	83673	5.600	5.09	1040.67	5.40
4.597	1037.68	88089	5.600	5.78	1035.33	5.50
4.770	1033.08	84614	5.700	4.76	1030.00	5.50
4.827	1032.12	86711	5.700	4.92	1028.69	5.50
4.883	1031.06	85971	5.700	5.10	1027.38	5.50
4.940	1030.05	82188	5.800	5.46	1026.07	5.60
4.997	1029.08	79891	5.800	5.82	1024.77	5.60

PROFILE OF CRESTS AND TIMES FOR BREACH 2-SENARIO 3
BELOW WHITE TANKS FRS #3

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
********	********	********	********	********	**********	**********
5.053	1028.07	79783	5.900	6.17	1023.46	5.60
5.110	1027.19	77642	5.900	6.53	1022.15	5.60
5.167	1026.51	72821	6.123	6.92	1020.84	5.70
5.223	1026.06	71260	6.212	7.32	1019.53	5.70
5.280	1025.69	67962	6.223	8.18	1018.22	5.70
5.337	1025.35	61587	6.223	9.32	1016.92	5.70
5.393	1024.97	55064	6.223	11.29	1015.61	5.80
5.450	1024.46	54716	6.223	8.25	1014.30	5.80
5.500	1014.54	54716	6.200	6.51	1014.00	6.00
5.750	1006.98	54167	6.300	6.04	1005.33	6.00
6.000	998.88	54413	6.400	6.58	996.67	6.00
6.250	991.43	54485	6.300	5.42	988.00	6.10
6.583	982.87	53816	6.500	5.80	980.00	6.20
6.917	974.27	53437	6.600	5.80	972.00	6.30
7.250	965.77	52958	6.700	5.85	964.00	6.40

7.375	962.67	53061	6.700	5.80	960.75	6.40
7.500	959.56	52529	6.800	5.78	957.50	6.50
7.625	956.50	52897	6.700	5.75	954.25	6.50
7.750	953.42	53884	6.700	5.84	951.00	6.50
7.875	950.35	53512	6.700	5.74	947.75	6.50
8.000	947.18	53730	6.800	5.91	944.50	6.60
8.125	944.31	54647	6.800	5.55	941.25	6.60
8.250	940.77	54206	6.800	7.33	938.00	6.60
8.450	934.42	53749	7.100	5.87	931.80	6.70
8.650	927.48	52744	6.900	7.49	925.60	6.80
8.850	921.67	53100	7.100	4.97	919.40	6.80
9.050	914.24	52808	7.000	8.82	913.20	6.87
9.250	909.17	52971	7.200	3.77	907.00	7.00
9.450	906.93	50393	7.300	3.68	904.80	7.00
9.650	904.65	48998	7.400	3.53	902.60	7.10
9.850	902.39	48221	7.500	3.38	900.40	7.20
10.050	899.68	48437	7.500	3.80	898.20	7.30
10.250	897.82	46971	7.700	2.97	896.00	7.40
10.313	897.44	46259	7.700	3.02	895.44	7.40
10.375	897.05	45910	7.800	3.04	894.88	7.40
10.438	896.66	45288	7.800	3.02	894.31	7.40
10.500	896.24	44961	7.800	3.07	893.75	7.50
10.563	895.78	44601	7.900	3.21	893.19	7.50
10.625	895.29	44172	7.900	3.31	892.63	7.50
10.688	894.76	43855	7.900	3.36	892.06	7.50
10.750	894.22	43637	8.000	3.43	891.50	7.50
10.813	893.68	43310	8.000	3.50	890.94	7.60
10.875	893.12	42998	8.000	3.54	890.38	7.60
10.938	892.56	42901	8.000	3.55	889.81	7.60
11.000	891.99	42713	8.100	3.59	889.25	7.60
11.063	891.42	42436	8.100	3.62	888.69	7.70
11.125	890.84	42324	8.100	3.61	888.13	7.70
11.188	890.24	42260	8.100	3.65	887.56	7.70

PROFILE OF CRESTS AND TIMES FOR BREACH 2-SENARIO 3
BELOW WHITE TANKS FRS #3

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
********	********	********	********	********	**********	**********
11.250	889.59	42100	8.200	3.81	887.00	7.70

APPENDIX E

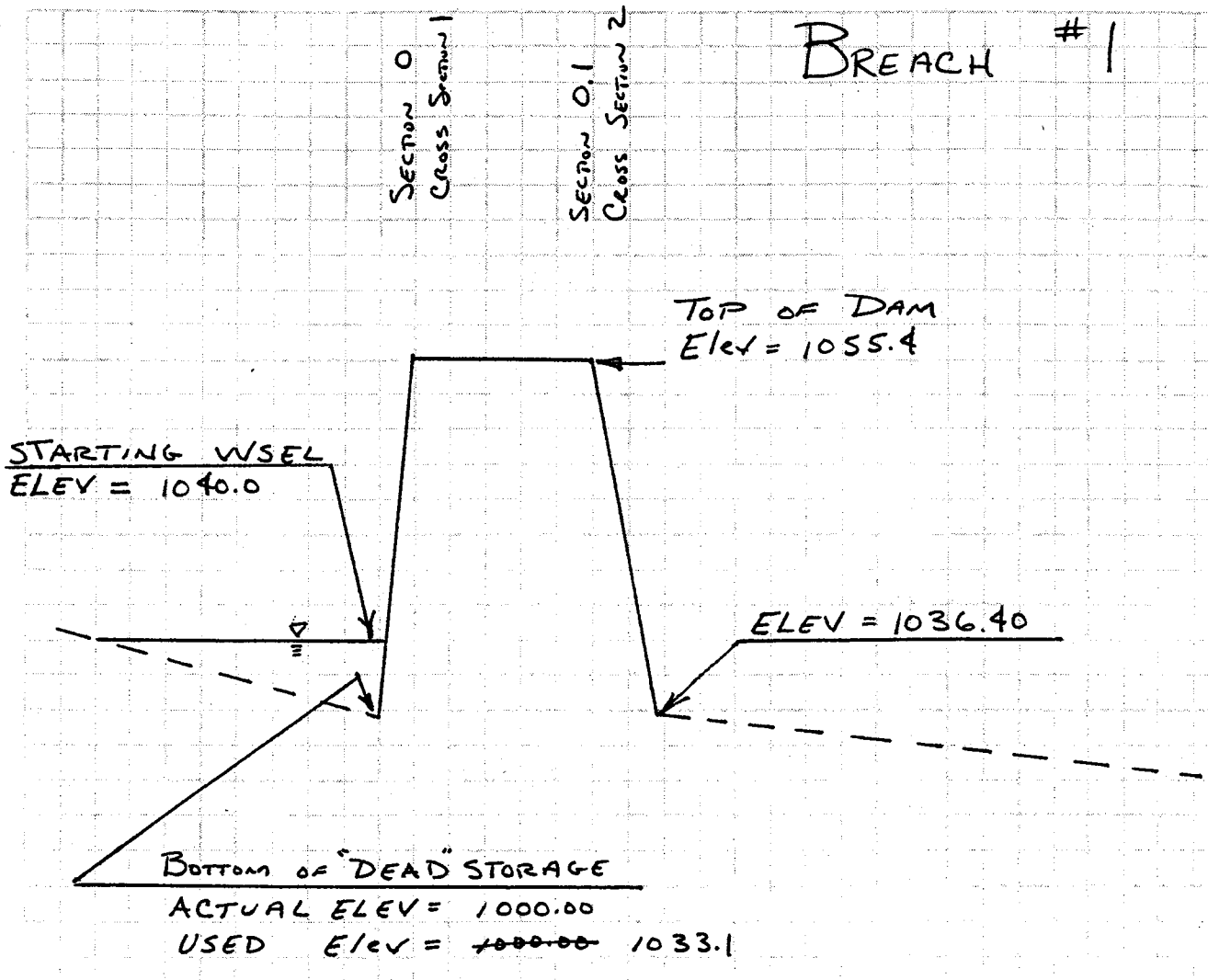
DAMBRK Output for White Tanks FRS No. 4

ACK ENGINEERS, INC.
2255 N. 44th St. • Phoenix, Az. 85008 • Phone (602) 244-2566

SHEET _____ OF _____
BY HEM DATE _____
CHECK _____ DATE _____

CLIENT FCDMC
JOB WT4
JOB NO. 310.41

BREACH #1



FOR BREACH LOCATION #1

HF	SENARIO #1	1055.4	TOP OF DAM
WORST CASE ⇒	#2	1053.0	PEAK STAGE
	#3	1048.5	SPILLWAY ELEV
	#4	1040.5	

ANALYSIS OF THE DOWNSTREAM FLOOD HYDROGRAPH

PRODUCED BY THE DAM BREAK OF

WHITE TANKS FRS #4

ON

BREACH 1-SENARIO 2

ANALYSIS BY

AGK ENGINEERS, INC.
FILE NAME => WT4B1S2R.DAT REV 12/90
ELEV. OF FAILURE = 1053.0,PIT FULL

BASED ON PROCEDURE DEVELOPED BY
DANNY L. FREAD, PH.D., SR. RESEARCH HYDROLOGIST

QUALITY CONTROL TESTING AND OTHER SUPPORT BY
JANICE M. LEWIS, RESEARCH HYDROLOGIST

HYDROLOGIC RESEARCH LABORATORY
W23, OFFICE OF HYDROLOGY
NOAA, NATIONAL WEATHER SERVICE
SILVER SPRING, MARYLAND 20910

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*** SUMMARY OF INPUT DATA ***
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INPUT CONTROL PARAMETERS FOR WHITE TANKS FRS #4

PARAMETER	VARIABLE	VALUE
NUMBER OF DYNAMIC ROUTING REACHES	KKN	1
TYPE OF RESERVOIR ROUTING	KUI	1
MULTIPLE DAM INDICATOR	MULDAM	1
PRINTING INSTRUCTIONS FOR INPUT SUMMARY	KDMP	3
NO. OF RESERVOIR INFLOW HYDROGRAPH POINTS	ITEH	72
INTERVAL OF CROSS-SECTION INFO PRINTED OUT WHEN JNK=9	NPRT	0
FLOOD-PLAIN MODEL PARAMETER	KFLP	0
METRIC INPUT/OUTPUT OPTION	METRIC	0

IDAM= 1

WHITE TANKS FRS #4 RESERVOIR

TABLE OF ELEVATION VS VOLUME

VOLUME (ACRE-FEET) ELEVATION (FT)

SA(K)	HSA(K)
2561.0	1056.00
2082.0	1054.00
1666.0	1052.00
1317.0	1050.00
1051.0	1048.00
550.0	1042.00
460.0	1040.00
2.4	1000.00

SURFACE AREA TABLE BELOW ENTRY NO. 1 IS NOT EXACTLY COMPATIBLE WITH THE VOLUME TABLE. THE VOLUME TABLE SHOULD BE CHECKED FOR POSSIBLE ERRORS. IF POSSIBLE USE A SURFACE AREA TABLE RATHER THAN A VOLUME TABLE. IF THE SURFACE AREA TABLE IS NOT AVAILABLE, THEN THE SURFACE AREA AT THE TOP OF THE DAM SHOULD BE READ IN FOR THE PARAMETER "VOL".

WHITE TANKS FRS #4 RESERVOIR

TABLE OF ELEVATION VS SURFACE AREA

SURFACE AREA (ACRES) SA(K)	ELEVATION (FT) HSA(K)
239.5	1056.00
215.5	1054.00
200.5	1052.00
148.5	1050.00
117.5	1048.00
49.5	1042.00
40.5	1040.00
20.2	1000.00

DAM NUMBER 1

WHITE TANKS FRS #4 RESERVOIR AND BREACH PARAMETERS

PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	1040.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	1036.40
WIDTH OF BASE OF BREACH	FEET	BB	275.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	.25
ELEVATION OF WATER WHEN BREACHED	FEET	HF	1053.00
ELEVATION OF TOP OF DAM	FEET	HD	1055.40
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	1048.50
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.60
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	18000.00
DISCHARGE THRU TURBINES	CFS	QT	500.00

QSPILL(K, 1) CFS	HEAD(K, 1) FEET
0.	.0
170.	.5
1350.	1.5
5600.	3.5
13200.	6.0
16420.	6.9
22685.	8.5
0.	.0

DHF(INTERVAL BETWEEN INPUT HYDROGRAPH ORDINATES) = .25 HRS.

TEH(TIME AT WHICH COMPUTATIONS TERMINATE)= 7.5000 HRS.

BREX(BREACH EXPONENT) = 1.000

MUD(MUD FLOW OPTION) = 0

IWF(TYPE OF WAVE FRONT TRACKING) = 0

KPRES(WETTED PERIMETER OPTION) = 1

KSL(LANDSLIDE PARAMETER) = 0

INFLOW HYDROGRAPH TO WHITE TANKS FRS #4
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.00	.00	.00	.00	.00	.00	3.00	12.00
27.00	221.00	3433.00	7165.00	22491.00	21361.00	18327.00	15279.00
1334.00	12227.00	11468.00	10675.00	9622.00	8527.00	8008.00	7598.00
6747.00	5939.00	5416.00	4797.00	4172.00	2830.00	1771.00	1327.00
1023.00	793.00	615.00	472.00	370.00	289.00	230.00	181.00
144.00	114.00	93.00	74.00	61.00	49.00	40.00	32.00
26.00	20.00	16.00	13.00	10.00	8.00	7.00	6.00
5.00	4.00	3.00	3.00	2.00	2.00	2.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	.00

TIME OF INFLOW HYDROGRAPH ORDINATES

.0000	.2500	.5000	.7500	1.0000	1.2500	1.5000	1.7500
2.0000	2.2500	2.5000	2.7500	3.0000	3.2500	3.5000	3.7500
4.0000	4.2500	4.5000	4.7500	5.0000	5.2500	5.5000	5.7500
6.0000	6.2500	6.5000	6.7500	7.0000	7.2500	7.5000	7.7500
8.0000	8.2500	8.5000	8.7500	9.0000	9.2500	9.5000	9.7500
10.0000	10.2500	10.5000	10.7500	11.0000	11.2500	11.5000	11.7500
12.0000	12.2500	12.5000	12.7500	13.0000	13.2500	13.5000	13.7500
14.0000	14.2500	14.5000	14.7500	15.0000	15.2500	15.5000	15.7500
16.0000	16.2500	16.5000	16.7500	17.0000	17.2500	17.5000	17.7500

1

CROSS-SECTIONAL PARAMETERS FOR BREACH 1-SENARIO 2
BELOW WHITE TANKS FRS #4

PARAMETER	VARIABLE	VALUE
**********	******	*******
NUMBER OF CROSS-SECTIONS	NS	12
MAXIMUM NUMBER OF TOP WIDTHS	NCS	4
NUMBER OF CROSS-SECTIONAL HYDROGRAPHS TO PLOT	NTT	0
TYPE OF OUTPUT OTHER THAN HYDROGRAPH PLOTS	JNK	9

CROSS-SECTIONAL SMOOTHING PARAMETER	KSA	0
DOWNSTREAM SUPERCRITICAL OR NOT	KSUPC	0
NO. OF LATERAL INFLOW HYDROGRAPHS	LQ	0
NO. OF POINTS IN GATE CONTROL CURVE	KCG	0

CROSS-SECTIONAL VARIABLES FOR BREACH 1-SENARIO 2
BELOW WHITE TANKS FRS #4

PARAMETER	UNITS	VARIABLE
LOCATION OF CROSS-SECTION	MILE	XS(I)
ELEVATION(MSL) OF FLOODING AT CROSS-SECTION	FEET	FSTG(I)
ELEV CORRESPONDING TO EACH TOP WIDTH	FEET	HS(K,I)
TOP WIDTH CORRESPONDING TO EACH ELEV (ACTIVE FLOW PORTION)	FEET	BS(K,I)
TOP WIDTH CORRESPONDING TO EACH ELEV (OFF-CHANNEL PORTION)	FEET	BSS(K,I)
NUMBER OF CROSS-SECTION		I
NUMBER OF ELEVATION LEVEL		K

CROSS-SECTION NUMBER 1

XS(I) = .000 FSTG(I) = .00

HS ...	1033.1	1034.0	1036.0	1050.0
BS ...	.0	550.0	1200.0	2250.0
BSS ...	.0	.0	.0	.0

CROSS-SECTION NUMBER 2

XS(I) = .010 FSTG(I) = 1034.00

HS ...	1033.0	1034.0	1036.0	1037.0
BS ...	.0	550.0	1200.0	2250.0
BSS ...	.0	.0	.0	.0

CROSS-SECTION NUMBER 3

```
XS(I) =      .150   FSTG(I) = 1029.00


HS  ...   1029.0  1030.0  1031.0  1032.0
BS  ...      .0  4400.0  4900.0  4900.0
BSS ...      .0     .0      .0      .0



CROSS-SECTION NUMBER  4
*************************

XS(I) =      .280   FSTG(I) = 1025.00


HS  ...   1023.0  1024.0  1025.0  1026.0
BS  ...   1000.0  2800.0  7000.0 10000.0
BSS ...    200.0   300.0   500.0   500.0



CROSS-SECTION NUMBER  5
*************************

XS(I) =      .530   FSTG(I) = 1014.00


HS  ...   1013.0  1014.0  1015.0  1017.0
BS  ...      .0  1800.0  4600.0  9600.0
BSS ...      .0   200.0   500.0   500.0



CROSS-SECTION NUMBER  6
*************************

XS(I) =      .800   FSTG(I) = 1006.00


HS  ...   1005.0  1006.0  1007.0  1010.0
BS  ...   4000.0  6000.0  8000.0 11000.0
BSS ...   1100.0  2100.0  2800.0  2800.0



CROSS-SECTION NUMBER  7
*************************

XS(I) =     1.700   FSTG(I) =  965.00


HS  ...    964.0   965.0   966.0   968.0
BS  ...      .0  1000.0  5000.0 11000.0
BSS ...      .0   300.0   600.0  2500.0
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CROSS-SECTION NUMBER 8
****

XS(I) = 2.300 FSTG(I) = 945.00

HS ...	944.0	945.0	946.0	948.0
BS ...	.0	4000.0	5900.0	8400.0
BSS ...	.0	1000.0	1000.0	1000.0

CROSS-SECTION NUMBER 9
****

XS(I) = 2.850 FSTG(I) = 925.00

HS ...	923.0	925.0	926.0	928.0
BS ...	.0	2000.0	6100.0	9000.0
BSS ...	.0	800.0	1000.0	2600.0

CROSS-SECTION NUMBER 10
****

XS(I) = 3.620 FSTG(I) = 895.00

HS ...	893.0	895.0	898.0	900.0
BS ...	.0	3000.0	8000.0	9000.0
BSS ...	.0	700.0	1000.0	1800.0

CROSS-SECTION NUMBER 11
****

XS(I) = 4.500 FSTG(I) = 881.00

HS ...	879.0	880.0	882.0	887.0
BS ...	.0	2300.0	4500.0	7800.0
BSS ...	.0	250.0	500.0	700.0

CROSS-SECTION NUMBER 12
****

XS(I) = 5.500 FSTG(I) = 875.00

HS ...	873.0	875.0	876.0	880.0
BS ...	.0	3200.0	4500.0	8000.0
BSS ...	.0	300.0	400.0	800.0

MANNING N ROUGHNESS COEFFICIENTS FOR THE GIVEN REACHES
(CM(K,I),K=1,NCS) WHERE I = REACH NUMBER
****

REACH 1 ...	.035	.035	.035	.035
REACH 2 ...	.035	.035	.035	.035
REACH 3 ...	.035	.035	.035	.035
REACH 4 ...	.035	.035	.035	.035
REACH 5 ...	.035	.035	.035	.035
REACH 6 ...	.035	.035	.035	.035
REACH 7 ...	.035	.035	.035	.035
REACH 8 ...	.035	.035	.035	.035
REACH 9 ...	.035	.035	.035	.035
REACH 10 ...	.035	.035	.035	.035
REACH 11 ...	.035	.035	.035	.035

CROSS-SECTIONAL VARIABLES FOR BREACH 1-SENARIO 2
BELOW WHITE TANKS FRS #4

PARAMETER	UNITS	VARIABLE
MINIMUM COMPUTATIONAL DISTANCE USED BETWEEN CROSS-SECTIONS	MILE	DXM(I)
CONTRACTION - EXPANSION COEFFICIENTS BETWEEN CROSS-SECTIONS		FKC(I)

REACH NUMBER	DXM(I)	FKC(I)
1	.010	-.700
2	.000	-.700

3	.000	-.500
4	.000	-.500
5	.000	-.300
6	.000	-.100
7	.000	.000
8	.000	.000
9	.000	.000
10	.000	.000
11	.000	.000

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DOWNSTREAM FLOW PARAMETERS FOR BREACH 1-SENARIO 2
BELOW WHITE TANKS FRS #4

PARAMETER	UNITS	VARIABLE	VALUE
MAX DISCHARGE AT DOWNSTREAM EXTREMITY	CFS	QMAXD	.0
MAX LATERAL OUTFLOW PRODUCING LOSSES	CFS /FEET	QLL	.000
INITIAL SIZE OF TIME STEP	HOUR	DTHM	.0500
INITIAL WATER SURFACE ELEVATION DOWNSTREAM	FEET	YDN	.00
SLOPE OF CHANNEL DOWNSTREAM OF DAM	FPM	SOM	30.00
THETA WEIGHTING FACTOR		THETA	.00
CONVERGENCE CRITERION FOR STAGE	FEET	EPSY	.050
TIME AT WHICH DAM STARTS TO FAIL	HOUR	TFI	.00

AT REACH= 2 DXM WAS CHANGED TO .009 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 4 DXM WAS CHANGED TO .083 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 5 DXM WAS CHANGED TO .027 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 6 DXM WAS CHANGED TO .047 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 7 DXM WAS CHANGED TO .086 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 9 DXM WAS CHANGED TO .154 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 10 DXM WAS CHANGED TO .220 DUE TO EXP/CONTRACT CRITERIA

AT REACH= 11 DXM WAS CHANGED TO .250 DUE TO EXP/CONTRACT CRITERIA

I= 2 XS= .00 QS= 62803. YE= 1039.16 DEP= 6.16 TP= .25 DXM= .00

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I=   3  XS=     .14     QS=    61394.     YE= 1031.90     DEP=  2.90     TP=   .28     DXM=     .00

        AT REACH=    3  DXM WAS CHANGED TO  .054  DUE TO (WAVE SPEED * DT) CRITERIA
I=   4  XS=     .27     QS=    36625.     YE= 1025.24     DEP=  2.24     TP=   .32     DXM=     .00

        AT REACH=    4  DXM WAS CHANGED TO  .050  DUE TO (WAVE SPEED * DT) CRITERIA
I=   5  XS=     .52     QS=    35247.     YE= 1015.73     DEP=  2.73     TP=   .40     DXM=     .00
I=   6  XS=     .79     QS=    29304.     YE= 1006.50     DEP=  1.50     TP=   .48     DXM=     .00
I=   7  XS=    1.69     QS=    29011.     YE=  966.62     DEP=  2.62     TP=   .74     DXM=     .00

        AT REACH=    7  DXM WAS CHANGED TO  .054  DUE TO (WAVE SPEED * DT) CRITERIA
I=   8  XS=    2.29     QS=    28721.     YE=  946.07     DEP=  2.07     TP=   .91     DXM=     .00

        AT REACH=    8  DXM WAS CHANGED TO  .059  DUE TO (WAVE SPEED * DT) CRITERIA
I=   9  XS=    2.84     QS=    28434.     YE=  926.19     DEP=  3.19     TP=  1.06     DXM=     .00

        AT REACH=    9  DXM WAS CHANGED TO  .063  DUE TO (WAVE SPEED * DT) CRITERIA
I=  10  XS=    3.61     QS=    28149.     YE=  895.85     DEP=  2.85     TP=  1.25     DXM=     .00

        AT REACH=   10  DXM WAS CHANGED TO  .053  DUE TO (WAVE SPEED * DT) CRITERIA
I=  11  XS=    4.49     QS=    27868.     YE=  882.03     DEP=  3.03     TP=  1.51     DXM=     .00

        AT REACH=   11  DXM WAS CHANGED TO  .050  DUE TO (WAVE SPEED * DT) CRITERIA
I=  12  XS=    5.49     QS=    24113.     YE=  876.70     DEP=  3.70     TP=  1.82     DXM=     .00


        COMPUTATIONS WILL USE THE FOLLOWING DXM VALUES

   101.000    .009    .054    .050    .027    .047    .054    .059    .063    .053    .050


        TOTAL NUMBER OF CROSS SECTIONS (ORIGINAL+INTERPOLATED) (N) =   120     (MAXIMUM ALLOWABLE =   200


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                    ***                          ***
                    ***  SUMMARY OF OUTPUT DATA  ***
                    ***                          ***
                    ********************************
                    ********************************

                          BOTTOM                          REACH
   CROSS-SECTION          ELEVATION                       LENGTH      SLOPE
       NO.          MILE     FEET            REACH NO.    MILE        FPM                          MESAGE
        1           .00    1033.10
        2           .01    1033.00              1          .01       10.00
        3           .15    1029.00              2          .14       28.57
        4           .28    1023.00              3          .13       46.15
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5	.53	1013.00	4	.25	40.00
6	.80	1005.00	5	.27	29.63
7	1.70	964.00	6	.90	45.56
8	2.30	944.00	7	.60	33.33
9	2.85	923.00	8	.55	38.18
10	3.62	893.00	9	.77	38.96
11	4.50	879.00	10	.88	15.91
12	5.50	873.00	11	1.00	6.00

RE-NUMBERED VALUES FOR IDAM

IDAM(1) = 1

SNC(K,1)= 1.00 1.00 1.00 1.00

NUMBER OF INTERMEDIATE STATIONS NN(NS) 120

NUMBER OF TIME STEPS NNU 72

INITIAL CONDITIONS

I=	1	X=	.000	YN=	1034.08	DEPN=	.98	YC=	1033.80	DEPC=	.70	IFR=	0	ITN=	10	ITC=	10
I=	2	X=	.010	YN=	1033.98	DEPN=	.98	YC=	1033.73	DEPC=	.73	IFR=	0	ITN=	8	ITC=	8
I=	3	X=	.019	YN=	1033.57	DEPN=	.84	YC=	1033.36	DEPC=	.62	IFR=	0	ITN=	8	ITC=	8
I=	4	X=	.029	YN=	1033.23	DEPN=	.76	YC=	1033.03	DEPC=	.57	IFR=	0	ITN=	8	ITC=	8
I=	5	X=	.038	YN=	1032.90	DEPN=	.70	YC=	1032.71	DEPC=	.51	IFR=	0	ITN=	8	ITC=	8
I=	6	X=	.047	YN=	1032.58	DEPN=	.65	YC=	1032.41	DEPC=	.47	IFR=	0	ITN=	8	ITC=	8
I=	7	X=	.057	YN=	1032.29	DEPN=	.62	YC=	1032.12	DEPC=	.45	IFR=	0	ITN=	8	ITC=	8
I=	8	X=	.066	YN=	1031.98	DEPN=	.58	YC=	1031.83	DEPC=	.43	IFR=	0	ITN=	8	ITC=	8
I=	9	X=	.075	YN=	1031.69	DEPN=	.56	YC=	1031.54	DEPC=	.41	IFR=	0	ITN=	8	ITC=	8
I=	10	X=	.085	YN=	1031.40	DEPN=	.53	YC=	1031.25	DEPC=	.39	IFR=	0	ITN=	8	ITC=	8
I=	11	X=	.094	YN=	1031.12	DEPN=	.52	YC=	1030.98	DEPC=	.38	IFR=	0	ITN=	8	ITC=	8
I=	12	X=	.103	YN=	1030.83	DEPN=	.50	YC=	1030.69	DEPC=	.36	IFR=	0	ITN=	8	ITC=	8
I=	13	X=	.113	YN=	1030.56	DEPN=	.49	YC=	1030.42	DEPC=	.35	IFR=	0	ITN=	8	ITC=	8
I=	14	X=	.122	YN=	1030.28	DEPN=	.48	YC=	1030.14	DEPC=	.34	IFR=	0	ITN=	8	ITC=	8
I=	15	X=	.131	YN=	1030.00	DEPN=	.47	YC=	1029.87	DEPC=	.34	IFR=	0	ITN=	8	ITC=	8
I=	16	X=	.141	YN=	1029.72	DEPN=	.45	YC=	1029.60	DEPC=	.33	IFR=	0	ITN=	8	ITC=	8
I=	17	X=	.150	YN=	1029.40	DEPN=	.40	YC=	1029.32	DEPC=	.32	IFR=	0	ITN=	8	ITC=	8
I=	18	X=	.215	YN=	1026.33	DEPN=	.33	YC=	1026.24	DEPC=	.24	IFR=	0	ITN=	8	ITC=	8
I=	19	X=	.280	YN=	1023.29	DEPN=	.29	YC=	1023.18	DEPC=	.18	IFR=	0	ITN=	8	ITC=	8
I=	20	X=	.342	YN=	1020.82	DEPN=	.32	YC=	1020.72	DEPC=	.22	IFR=	0	ITN=	8	ITC=	8
I=	21	X=	.405	YN=	1018.38	DEPN=	.38	YC=	1018.27	DEPC=	.27	IFR=	0	ITN=	8	ITC=	8
I=	22	X=	.467	YN=	1015.96	DEPN=	.46	YC=	1015.84	DEPC=	.34	IFR=	0	ITN=	8	ITC=	8
I=	23	X=	.530	YN=	1013.62	DEPN=	.62	YC=	1013.46	DEPC=	.46	IFR=	0	ITN=	8	ITC=	8
I=	24	X=	.557	YN=	1012.64	DEPN=	.44	YC=	1012.50	DEPC=	.30	IFR=	0	ITN=	8	ITC=	8
I=	25	X=	.584	YN=	1011.74	DEPN=	.34	YC=	1011.61	DEPC=	.21	IFR=	0	ITN=	8	ITC=	8
I=	26	X=	.611	YN=	1010.88	DEPN=	.28	YC=	1010.76	DEPC=	.16	IFR=	0	ITN=	8	ITC=	8
I=	27	X=	.638	YN=	1010.03	DEPN=	.23	YC=	1009.95	DEPC=	.15	IFR=	0	ITN=	8	ITC=	8
I=	28	X=	.665	YN=	1009.22	DEPN=	.22	YC=	1009.11	DEPC=	.11	IFR=	0	ITN=	8	ITC=	8
I=	29	X=	.692	YN=	1008.39	DEPN=	.19	YC=	1008.32	DEPC=	.12	IFR=	0	ITN=	8	ITC=	8
I=	30	X=	.719	YN=	1007.57	DEPN=	.17	YC=	1007.50	DEPC=	.10	IFR=	0	ITN=	8	ITC=	8
I=	31	X=	.746	YN=	1006.76	DEPN=	.16	YC=	1006.68	DEPC=	.08	IFR=	0	ITN=	8	ITC=	8
I=	32	X=	.773	YN=	1005.94	DEPN=	.14	YC=	1005.89	DEPC=	.09	IFR=	0	ITN=	8	ITC=	8
I=	33	X=	.800	YN=	1005.13	DEPN=	.13	YC=	1005.07	DEPC=	.07	IFR=	0	ITN=	8	ITC=	8

I=	34	X=	.847	YN=	1002.97	DEPN=	.13	YC=	1002.93	DEPC=	.09	IFR=	0	ITN=	8	ITC=	8
I=	35	X=	.895	YN=	1000.81	DEPN=	.12	YC=	1000.77	DEPC=	.09	IFR=	0	ITN=	8	ITC=	8
I=	36	X=	.942	YN=	998.67	DEPN=	.14	YC=	998.61	DEPC=	.09	IFR=	0	ITN=	8	ITC=	8
I=	37	X=	.989	YN=	996.51	DEPN=	.14	YC=	996.45	DEPC=	.08	IFR=	0	ITN=	8	ITC=	8
I=	38	X=	1.037	YN=	994.37	DEPN=	.16	YC=	994.31	DEPC=	.10	IFR=	0	ITN=	8	ITC=	8
I=	39	X=	1.084	YN=	992.21	DEPN=	.16	YC=	992.15	DEPC=	.10	IFR=	0	ITN=	8	ITC=	8
I=	40	X=	1.132	YN=	990.07	DEPN=	.17	YC=	989.99	DEPC=	.10	IFR=	0	ITN=	8	ITC=	8
I=	41	X=	1.179	YN=	987.91	DEPN=	.17	YC=	987.85	DEPC=	.12	IFR=	0	ITN=	8	ITC=	8
I=	42	X=	1.226	YN=	985.76	DEPN=	.19	YC=	985.69	DEPC=	.11	IFR=	0	ITN=	8	ITC=	8
I=	43	X=	1.274	YN=	983.62	DEPN=	.20	YC=	983.55	DEPC=	.13	IFR=	0	ITN=	8	ITC=	8
I=	44	X=	1.321	YN=	981.48	DEPN=	.22	YC=	981.39	DEPC=	.13	IFR=	0	ITN=	8	ITC=	8
I=	45	X=	1.368	YN=	979.34	DEPN=	.23	YC=	979.25	DEPC=	.15	IFR=	0	ITN=	8	ITC=	8
I=	46	X=	1.416	YN=	977.19	DEPN=	.24	YC=	977.11	DEPC=	.16	IFR=	0	ITN=	8	ITC=	8
I=	47	X=	1.463	YN=	975.06	DEPN=	.27	YC=	974.98	DEPC=	.19	IFR=	0	ITN=	8	ITC=	8
I=	48	X=	1.511	YN=	972.94	DEPN=	.30	YC=	972.84	DEPC=	.21	IFR=	0	ITN=	8	ITC=	8
I=	49	X=	1.558	YN=	970.82	DEPN=	.35	YC=	970.73	DEPC=	.25	IFR=	0	ITN=	8	ITC=	8
I=	50	X=	1.605	YN=	968.74	DEPN=	.42	YC=	968.63	DEPC=	.31	IFR=	0	ITN=	8	ITC=	8
I=	51	X=	1.653	YN=	966.69	DEPN=	.53	YC=	966.56	DEPC=	.40	IFR=	0	ITN=	8	ITC=	8
I=	52	X=	1.700	YN=	964.76	DEPN=	.76	YC=	964.57	DEPC=	.57	IFR=	0	ITN=	8	ITC=	8
I=	53	X=	1.755	YN=	962.88	DEPN=	.70	YC=	962.71	DEPC=	.52	IFR=	0	ITN=	8	ITC=	8
I=	54	X=	1.809	YN=	961.00	DEPN=	.63	YC=	960.84	DEPC=	.48	IFR=	0	ITN=	8	ITC=	8
I=	55	X=	1.864	YN=	959.15	DEPN=	.60	YC=	958.99	DEPC=	.45	IFR=	0	ITN=	8	ITC=	8
I=	56	X=	1.918	YN=	957.30	DEPN=	.57	YC=	957.16	DEPC=	.43	IFR=	0	ITN=	8	ITC=	8
I=	57	X=	1.973	YN=	955.45	DEPN=	.54	YC=	955.32	DEPC=	.41	IFR=	0	ITN=	8	ITC=	8
I=	58	X=	2.027	YN=	953.61	DEPN=	.52	YC=	953.47	DEPC=	.38	IFR=	0	ITN=	8	ITC=	8
I=	59	X=	2.082	YN=	951.78	DEPN=	.51	YC=	951.64	DEPC=	.37	IFR=	0	ITN=	8	ITC=	8
I=	60	X=	2.136	YN=	949.95	DEPN=	.49	YC=	949.82	DEPC=	.37	IFR=	0	ITN=	8	ITC=	8
I=	61	X=	2.191	YN=	948.11	DEPN=	.48	YC=	947.99	DEPC=	.35	IFR=	0	ITN=	8	ITC=	8
I=	62	X=	2.245	YN=	946.28	DEPN=	.46	YC=	946.15	DEPC=	.34	IFR=	0	ITN=	8	ITC=	8
I=	63	X=	2.300	YN=	944.43	DEPN=	.43	YC=	944.34	DEPC=	.34	IFR=	0	ITN=	8	ITC=	8
I=	64	X=	2.361	YN=	942.12	DEPN=	.46	YC=	942.01	DEPC=	.35	IFR=	0	ITN=	8	ITC=	8
I=	65	X=	2.422	YN=	939.82	DEPN=	.49	YC=	939.70	DEPC=	.37	IFR=	0	ITN=	8	ITC=	8
I=	66	X=	2.483	YN=	937.52	DEPN=	.52	YC=	937.40	DEPC=	.40	IFR=	0	ITN=	8	ITC=	8
I=	67	X=	2.544	YN=	935.21	DEPN=	.55	YC=	935.09	DEPC=	.43	IFR=	0	ITN=	8	ITC=	8
I=	68	X=	2.606	YN=	932.91	DEPN=	.58	YC=	932.79	DEPC=	.45	IFR=	0	ITN=	8	ITC=	8
I=	69	X=	2.667	YN=	930.61	DEPN=	.61	YC=	930.48	DEPC=	.48	IFR=	0	ITN=	8	ITC=	8
I=	70	X=	2.728	YN=	928.31	DEPN=	.64	YC=	928.18	DEPC=	.51	IFR=	0	ITN=	8	ITC=	8
I=	71	X=	2.789	YN=	926.03	DEPN=	.70	YC=	925.88	DEPC=	.54	IFR=	0	ITN=	8	ITC=	8
I=	72	X=	2.850	YN=	923.73	DEPN=	.73	YC=	923.58	DEPC=	.58	IFR=	0	ITN=	8	ITC=	8
I=	73	X=	2.914	YN=	921.22	DEPN=	.72	YC=	921.06	DEPC=	.56	IFR=	0	ITN=	9	ITC=	9
I=	74	X=	2.978	YN=	918.71	DEPN=	.71	YC=	918.56	DEPC=	.56	IFR=	0	ITN=	9	ITC=	9
I=	75	X=	3.043	YN=	916.20	DEPN=	.70	YC=	916.04	DEPC=	.54	IFR=	0	ITN=	9	ITC=	9
I=	76	X=	3.107	YN=	913.69	DEPN=	.69	YC=	913.54	DEPC=	.54	IFR=	0	ITN=	9	ITC=	9
I=	77	X=	3.171	YN=	911.18	DEPN=	.68	YC=	911.03	DEPC=	.53	IFR=	0	ITN=	9	ITC=	9
I=	78	X=	3.235	YN=	908.67	DEPN=	.67	YC=	908.52	DEPC=	.52	IFR=	0	ITN=	9	ITC=	9
I=	79	X=	3.299	YN=	906.17	DEPN=	.67	YC=	906.01	DEPC=	.51	IFR=	0	ITN=	9	ITC=	9
I=	80	X=	3.363	YN=	903.66	DEPN=	.66	YC=	903.51	DEPC=	.51	IFR=	0	ITN=	9	ITC=	9
I=	81	X=	3.427	YN=	901.15	DEPN=	.65	YC=	901.00	DEPC=	.50	IFR=	0	ITN=	9	ITC=	9
I=	82	X=	3.492	YN=	898.64	DEPN=	.64	YC=	898.50	DEPC=	.50	IFR=	0	ITN=	9	ITC=	9
I=	83	X=	3.556	YN=	896.13	DEPN=	.63	YC=	895.99	DEPC=	.49	IFR=	0	ITN=	9	ITC=	9
I=	84	X=	3.620	YN=	893.75	DEPN=	.75	YC=	893.49	DEPC=	.49	IFR=	0	ITN=	9	ITC=	9
I=	85	X=	3.675	YN=	892.86	DEPN=	.74	YC=	892.61	DEPC=	.49	IFR=	0	ITN=	9	ITC=	9
I=	86	X=	3.730	YN=	891.98	DEPN=	.73	YC=	891.73	DEPC=	.48	IFR=	0	ITN=	9	ITC=	9
I=	87	X=	3.785	YN=	891.10	DEPN=	.72	YC=	890.86	DEPC=	.48	IFR=	0	ITN=	9	ITC=	9
I=	88	X=	3.840	YN=	890.23	DEPN=	.73	YC=	889.97	DEPC=	.47	IFR=	0	ITN=	9	ITC=	9
I=	89	X=	3.895	YN=	889.35	DEPN=	.72	YC=	889.09	DEPC=	.46	IFR=	0	ITN=	9	ITC=	9
I=	90	X=	3.950	YN=	888.46	DEPN=	.71	YC=	888.22	DEPC=	.47	IFR=	0	ITN=	9	ITC=	9
I=	91	X=	4.005	YN=	887.58	DEPN=	.70	YC=	887.33	DEPC=	.46	IFR=	0	ITN=	9	ITC=	9
I=	92	X=	4.060	YN=	886.70	DEPN=	.70	YC=	886.46	DEPC=	.46	IFR=	0	ITN=	9	ITC=	9
I=	93	X=	4.115	YN=	885.81	DEPN=	.69	YC=	885.58	DEPC=	.45	IFR=	0	ITN=	9	ITC=	9
I=	94	X=	4.170	YN=	884.93	DEPN=	.68	YC=	884.70	DEPC=	.45	IFR=	0	ITN=	9	ITC=	9
I=	95	X=	4.225	YN=	884.06	DEPN=	.68	YC=	883.82	DEPC=	.44	IFR=	0	ITN=	9	ITC=	9
I=	96	X=	4.280	YN=	883.17	DEPN=	.67	YC=	882.93	DEPC=	.43	IFR=	0	ITN=	9	ITC=	9
I=	97	X=	4.335	YN=	882.29	DEPN=	.66	YC=	882.06	DEPC=	.43	IFR=	0	ITN=	9	ITC=	9
I=	98	X=	4.390	YN=	881.40	DEPN=	.65	YC=	881.17	DEPC=	.42	IFR=	0	ITN=	9	ITC=	9
I=	99	X=	4.445	YN=	880.52	DEPN=	.64	YC=	880.29	DEPC=	.41	IFR=	0	ITN=	9	ITC=	9

I=	100	X=	4.500	YN=	879.76	DEPN=	.76	YC=	879.41	DEPC=	.41	IFR=	0	ITN=	9	ITC=	9
I=	101	X=	4.550	YN=	879.47	DEPN=	.77	YC=	879.11	DEPC=	.41	IFR=	0	ITN=	9	ITC=	9
I=	102	X=	4.600	YN=	879.18	DEPN=	.78	YC=	878.82	DEPC=	.42	IFR=	0	ITN=	9	ITC=	9
I=	103	X=	4.650	YN=	878.89	DEPN=	.79	YC=	878.52	DEPC=	.42	IFR=	0	ITN=	9	ITC=	9
I=	104	X=	4.700	YN=	878.58	DEPN=	.78	YC=	878.23	DEPC=	.43	IFR=	0	ITN=	9	ITC=	9
I=	105	X=	4.750	YN=	878.29	DEPN=	.79	YC=	877.93	DEPC=	.43	IFR=	0	ITN=	9	ITC=	9
I=	106	X=	4.800	YN=	878.00	DEPN=	.80	YC=	877.64	DEPC=	.44	IFR=	0	ITN=	9	ITC=	9
I=	107	X=	4.850	YN=	877.71	DEPN=	.81	YC=	877.34	DEPC=	.44	IFR=	0	ITN=	9	ITC=	9
I=	108	X=	4.900	YN=	877.41	DEPN=	.81	YC=	877.04	DEPC=	.44	IFR=	0	ITN=	9	ITC=	9
I=	109	X=	4.950	YN=	877.12	DEPN=	.82	YC=	876.75	DEPC=	.45	IFR=	0	ITN=	9	ITC=	9
I=	110	X=	5.000	YN=	876.83	DEPN=	.83	YC=	876.45	DEPC=	.45	IFR=	0	ITN=	9	ITC=	9
I=	111	X=	5.050	YN=	876.54	DEPN=	.84	YC=	876.16	DEPC=	.46	IFR=	0	ITN=	9	ITC=	9
I=	112	X=	5.100	YN=	876.23	DEPN=	.83	YC=	875.86	DEPC=	.46	IFR=	0	ITN=	9	ITC=	9
I=	113	X=	5.150	YN=	875.94	DEPN=	.84	YC=	875.55	DEPC=	.45	IFR=	0	ITN=	9	ITC=	9
I=	114	X=	5.200	YN=	875.65	DEPN=	.85	YC=	875.26	DEPC=	.46	IFR=	0	ITN=	9	ITC=	9
I=	115	X=	5.250	YN=	875.36	DEPN=	.86	YC=	874.96	DEPC=	.46	IFR=	0	ITN=	9	ITC=	9
I=	116	X=	5.300	YN=	875.05	DEPN=	.85	YC=	874.67	DEPC=	.47	IFR=	0	ITN=	9	ITC=	9
I=	117	X=	5.350	YN=	874.76	DEPN=	.86	YC=	874.37	DEPC=	.47	IFR=	0	ITN=	9	ITC=	9
I=	118	X=	5.400	YN=	874.47	DEPN=	.87	YC=	874.06	DEPC=	.46	IFR=	0	ITN=	9	ITC=	9
I=	119	X=	5.450	YN=	874.16	DEPN=	.86	YC=	873.78	DEPC=	.48	IFR=	0	ITN=	9	ITC=	9
I=	120	X=	5.500	YN=	873.87	DEPN=	.87	YC=	873.47	DEPC=	.47	IFR=	0	ITN=	9	ITC=	9

(IFR(I),I=1,N)

0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0

IN= 120 YNN= 873.87 DEP= .87

I=	119	X=	5.450	QIL=	500.	YIL=	874.17	DEP=	.87	ITB=	6
I=	118	X=	5.400	QIL=	500.	YIL=	874.47	DEP=	.87	ITB=	6
I=	117	X=	5.350	QIL=	500.	YIL=	874.76	DEP=	.86	ITB=	6
I=	116	X=	5.300	QIL=	500.	YIL=	875.06	DEP=	.86	ITB=	6
I=	115	X=	5.250	QIL=	500.	YIL=	875.35	DEP=	.85	ITB=	6
I=	114	X=	5.200	QIL=	500.	YIL=	875.65	DEP=	.85	ITB=	6
I=	113	X=	5.150	QIL=	500.	YIL=	875.95	DEP=	.85	ITB=	6
I=	112	X=	5.100	QIL=	500.	YIL=	876.24	DEP=	.84	ITB=	6
I=	111	X=	5.050	QIL=	500.	YIL=	876.54	DEP=	.84	ITB=	6
I=	110	X=	5.000	QIL=	500.	YIL=	876.83	DEP=	.83	ITB=	6
I=	109	X=	4.950	QIL=	500.	YIL=	877.13	DEP=	.83	ITB=	6
I=	108	X=	4.900	QIL=	500.	YIL=	877.42	DEP=	.82	ITB=	6
I=	107	X=	4.850	QIL=	500.	YIL=	877.71	DEP=	.81	ITB=	6
I=	106	X=	4.800	QIL=	500.	YIL=	878.01	DEP=	.81	ITB=	6
I=	105	X=	4.750	QIL=	500.	YIL=	878.30	DEP=	.80	ITB=	6
I=	104	X=	4.700	QIL=	500.	YIL=	878.60	DEP=	.80	ITB=	6
I=	103	X=	4.650	QIL=	500.	YIL=	878.89	DEP=	.79	ITB=	6
I=	102	X=	4.600	QIL=	500.	YIL=	879.18	DEP=	.78	ITB=	6
I=	101	X=	4.550	QIL=	500.	YIL=	879.47	DEP=	.77	ITB=	6
I=	100	X=	4.500	QIL=	500.	YIL=	879.76	DEP=	.76	ITB=	6
I=	99	X=	4.445	QIL=	500.	YIL=	880.42	DEP=	.55	ITB=	5
I=	98	X=	4.390	QIL=	500.	YIL=	881.46	DEP=	.71	ITB=	4
I=	97	X=	4.335	QIL=	500.	YIL=	882.25	DEP=	.63	ITB=	5
I=	96	X=	4.280	QIL=	500.	YIL=	883.19	DEP=	.69	ITB=	5
I=	95	X=	4.225	QIL=	500.	YIL=	884.04	DEP=	.67	ITB=	5
I=	94	X=	4.170	QIL=	500.	YIL=	884.94	DEP=	.69	ITB=	5
I=	93	X=	4.115	QIL=	500.	YIL=	885.81	DEP=	.69	ITB=	5

I=	92	X=	4.060	QIL=	500.	YIL=	886.70	DEP=	.70	ITB=	5
I=	91	X=	4.005	QIL=	500.	YIL=	887.58	DEP=	.70	ITB=	5
I=	90	X=	3.950	QIL=	500.	YIL=	888.46	DEP=	.71	ITB=	5
I=	89	X=	3.895	QIL=	500.	YIL=	889.34	DEP=	.72	ITB=	5
I=	88	X=	3.840	QIL=	500.	YIL=	890.22	DEP=	.72	ITB=	5
I=	87	X=	3.785	QIL=	500.	YIL=	891.10	DEP=	.73	ITB=	5
I=	86	X=	3.730	QIL=	500.	YIL=	891.98	DEP=	.73	ITB=	5
I=	85	X=	3.675	QIL=	500.	YIL=	892.86	DEP=	.74	ITB=	5
I=	84	X=	3.620	QIL=	500.	YIL=	893.74	DEP=	.74	ITB=	5
I=	83	X=	3.556	QIL=	500.	YIL=	896.01	DEP=	.51	ITB=	4
I=	82	X=	3.492	QIL=	500.	YIL=	898.73	DEP=	.73	ITB=	5
I=	81	X=	3.427	QIL=	500.	YIL=	901.05	DEP=	.55	ITB=	5
I=	80	X=	3.363	QIL=	500.	YIL=	903.73	DEP=	.73	ITB=	5
I=	79	X=	3.299	QIL=	500.	YIL=	906.09	DEP=	.59	ITB=	5
I=	78	X=	3.235	QIL=	500.	YIL=	908.73	DEP=	.73	ITB=	5
I=	77	X=	3.171	QIL=	500.	YIL=	911.12	DEP=	.62	ITB=	5
I=	76	X=	3.107	QIL=	500.	YIL=	913.74	DEP=	.74	ITB=	5
I=	75	X=	3.043	QIL=	500.	YIL=	916.16	DEP=	.66	ITB=	5
I=	74	X=	2.978	QIL=	500.	YIL=	918.75	DEP=	.75	ITB=	5
I=	73	X=	2.914	QIL=	500.	YIL=	921.19	DEP=	.69	ITB=	5
I=	72	X=	2.850	QIL=	500.	YIL=	923.76	DEP=	.76	ITB=	4
I=	71	X=	2.789	QIL=	500.	YIL=	926.01	DEP=	.68	ITB=	5
I=	70	X=	2.728	QIL=	500.	YIL=	928.33	DEP=	.67	ITB=	5
I=	69	X=	2.667	QIL=	500.	YIL=	930.61	DEP=	.61	ITB=	5
I=	68	X=	2.606	QIL=	500.	YIL=	932.93	DEP=	.59	ITB=	5
I=	67	X=	2.544	QIL=	500.	YIL=	935.21	DEP=	.55	ITB=	5
I=	66	X=	2.483	QIL=	500.	YIL=	937.53	DEP=	.53	ITB=	5
I=	65	X=	2.422	QIL=	500.	YIL=	939.82	DEP=	.49	ITB=	5
I=	64	X=	2.361	QIL=	500.	YIL=	942.14	DEP=	.47	ITB=	4
I=	63	X=	2.300	QIL=	500.	YIL=	944.44	DEP=	.44	ITB=	4
I=	62	X=	2.245	QIL=	500.	YIL=	946.29	DEP=	.47	ITB=	5
I=	61	X=	2.191	QIL=	500.	YIL=	948.10	DEP=	.46	ITB=	5
I=	60	X=	2.136	QIL=	500.	YIL=	949.95	DEP=	.50	ITB=	5
I=	59	X=	2.082	QIL=	500.	YIL=	951.77	DEP=	.50	ITB=	5
I=	58	X=	2.027	QIL=	500.	YIL=	953.62	DEP=	.53	ITB=	5
I=	57	X=	1.973	QIL=	500.	YIL=	955.45	DEP=	.54	ITB=	5
I=	56	X=	1.918	QIL=	500.	YIL=	957.30	DEP=	.58	ITB=	5
I=	55	X=	1.864	QIL=	500.	YIL=	959.14	DEP=	.59	ITB=	5
I=	54	X=	1.809	QIL=	500.	YIL=	961.01	DEP=	.64	ITB=	5
I=	53	X=	1.755	QIL=	500.	YIL=	962.86	DEP=	.68	ITB=	5
I=	52	X=	1.700	QIL=	500.	YIL=	964.75	DEP=	.75	ITB=	5
I=	51	X=	1.653	QIL=	500.	YIL=	966.68	DEP=	.52	ITB=	5
I=	50	X=	1.605	QIL=	500.	YIL=	968.76	DEP=	.44	ITB=	5
I=	49	X=	1.558	QIL=	500.	YIL=	970.82	DEP=	.34	ITB=	5
I=	48	X=	1.511	QIL=	500.	YIL=	972.95	DEP=	.32	ITB=	5
I=	47	X=	1.463	QIL=	500.	YIL=	975.05	DEP=	.27	ITB=	5
I=	46	X=	1.416	QIL=	500.	YIL=	977.20	DEP=	.25	ITB=	5
I=	45	X=	1.368	QIL=	500.	YIL=	979.33	DEP=	.22	ITB=	6
I=	44	X=	1.321	QIL=	500.	YIL=	981.47	DEP=	.21	ITB=	6
I=	43	X=	1.274	QIL=	500.	YIL=	983.61	DEP=	.19	ITB=	6
I=	42	X=	1.226	QIL=	500.	YIL=	985.76	DEP=	.18	ITB=	6
I=	41	X=	1.179	QIL=	500.	YIL=	987.91	DEP=	.17	ITB=	6
I=	40	X=	1.132	QIL=	500.	YIL=	990.06	DEP=	.17	ITB=	6
I=	39	X=	1.084	QIL=	500.	YIL=	992.21	DEP=	.16	ITB=	6
I=	38	X=	1.037	QIL=	500.	YIL=	994.36	DEP=	.15	ITB=	6
I=	37	X=	.989	QIL=	500.	YIL=	996.51	DEP=	.14	ITB=	6
I=	36	X=	.942	QIL=	500.	YIL=	998.67	DEP=	.14	ITB=	6
I=	35	X=	.895	QIL=	500.	YIL=	1000.82	DEP=	.13	ITB=	6
I=	34	X=	.847	QIL=	500.	YIL=	1002.97	DEP=	.13	ITB=	6
I=	33	X=	.800	QIL=	500.	YIL=	1005.12	DEP=	.12	ITB=	6
I=	32	X=	.773	QIL=	500.	YIL=	1005.97	DEP=	.17	ITB=	6
I=	31	X=	.746	QIL=	500.	YIL=	1006.75	DEP=	.15	ITB=	5
I=	30	X=	.719	QIL=	500.	YIL=	1007.59	DEP=	.19	ITB=	4
I=	29	X=	.692	QIL=	500.	YIL=	1008.37	DEP=	.17	ITB=	5
I=	28	X=	.665	QIL=	500.	YIL=	1009.23	DEP=	.23	ITB=	5
I=	27	X=	.638	QIL=	500.	YIL=	1010.02	DEP=	.22	ITB=	6

I=	26	X=	.611	QIL=	500.	YIL=	1010.89	DEP=	.29	ITB=	5
I=	25	X=	.584	QIL=	500.	YIL=	1011.72	DEP=	.32	ITB=	5
I=	24	X=	.557	QIL=	500.	YIL=	1012.64	DEP=	.44	ITB=	5
I=	23	X=	.530	QIL=	500.	YIL=	1013.58	DEP=	.58	ITB=	6
I=	22	X=	.467	QIL=	500.	YIL=	1015.98	DEP=	.48	ITB=	5
I=	21	X=	.405	QIL=	500.	YIL=	1018.38	DEP=	.38	ITB=	5
I=	20	X=	.342	QIL=	500.	YIL=	1020.83	DEP=	.33	ITB=	4
I=	19	X=	.280	QIL=	500.	YIL=	1023.28	DEP=	.28	ITB=	4
I=	18	X=	.215	QIL=	500.	YIL=	1026.33	DEP=	.33	ITB=	5
I=	17	X=	.150	QIL=	500.	YIL=	1029.41	DEP=	.41	ITB=	5
I=	16	X=	.141	QIL=	500.	YIL=	1029.73	DEP=	.46	ITB=	6
I=	15	X=	.131	QIL=	500.	YIL=	1029.99	DEP=	.46	ITB=	6
I=	14	X=	.122	QIL=	500.	YIL=	1030.28	DEP=	.48	ITB=	6
I=	13	X=	.113	QIL=	500.	YIL=	1030.55	DEP=	.49	ITB=	6
I=	12	X=	.103	QIL=	500.	YIL=	1030.83	DEP=	.50	ITB=	6
I=	11	X=	.094	QIL=	500.	YIL=	1031.12	DEP=	.52	ITB=	6
I=	10	X=	.085	QIL=	500.	YIL=	1031.40	DEP=	.53	ITB=	6
I=	9	X=	.075	QIL=	500.	YIL=	1031.69	DEP=	.55	ITB=	6
I=	8	X=	.066	QIL=	500.	YIL=	1031.98	DEP=	.58	ITB=	6
I=	7	X=	.057	QIL=	500.	YIL=	1032.27	DEP=	.61	ITB=	6
I=	6	X=	.047	QIL=	500.	YIL=	1032.57	DEP=	.64	ITB=	6
I=	5	X=	.038	QIL=	500.	YIL=	1032.88	DEP=	.68	ITB=	6
I=	4	X=	.029	QIL=	500.	YIL=	1033.19	DEP=	.73	ITB=	6
I=	3	X=	.019	QIL=	500.	YIL=	1033.53	DEP=	.80	ITB=	6
I=	2	X=	.010	QIL=	500.	YIL=	1033.90	DEP=	.90	ITB=	5
I=	1	X=	.000	QIL=	500.	YIL=	1040.00	DEP=	6.90	ITB=	0

INITIAL CONDITIONS

(QDI(I),I=1,N)

500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.
500.	500.	500.	500.	500.	500.	500.	500.

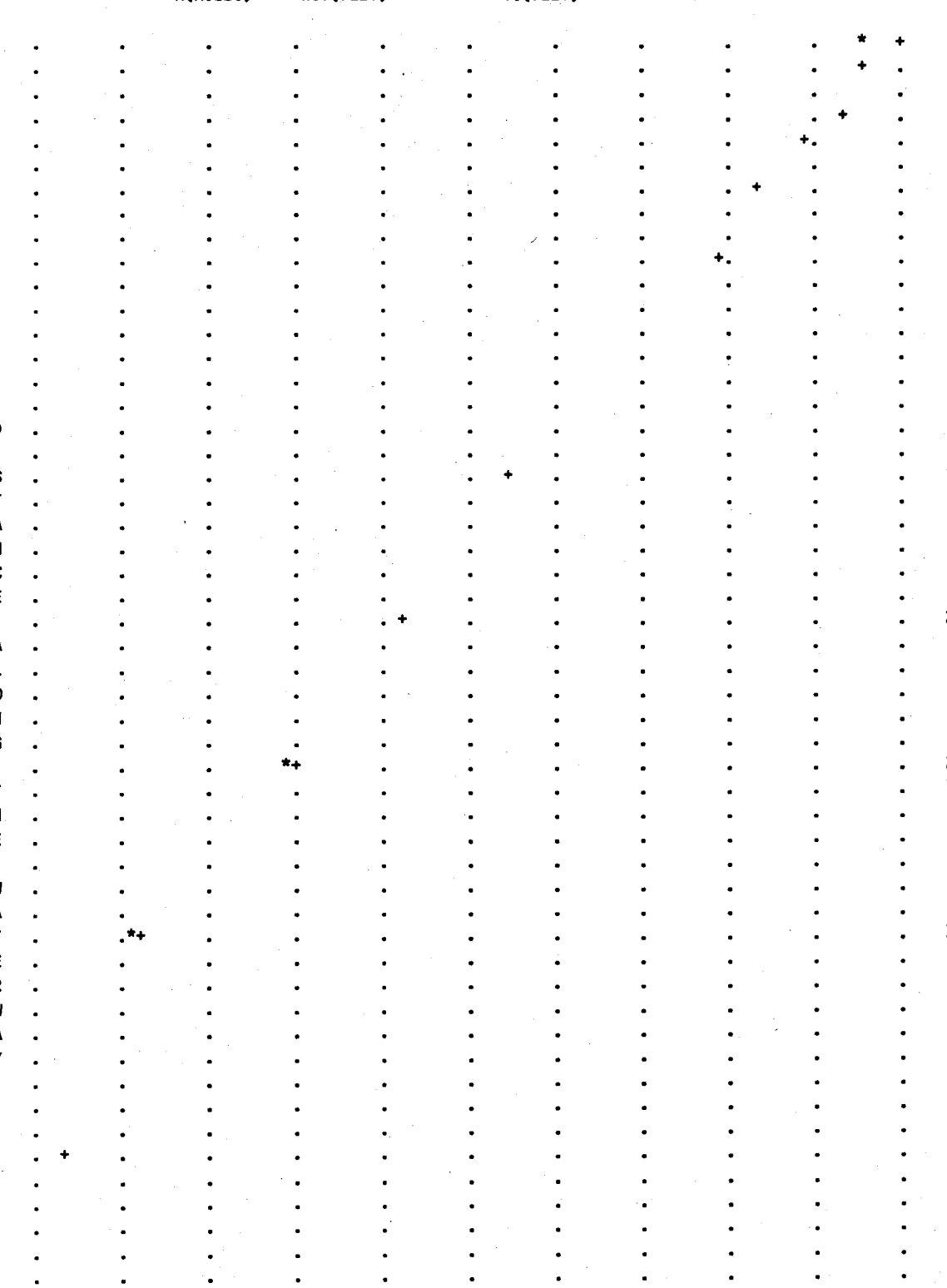
(YI(I),I=1,N)

1040.00	1033.90	1033.53	1033.19	1032.88	1032.57	1032.27	1031.98
1031.69	1031.40	1031.12	1030.83	1030.55	1030.28	1029.99	1029.73
1029.41	1026.33	1023.28	1020.83	1018.38	1015.98	1013.58	1012.64
1011.72	1010.89	1010.02	1009.23	1008.37	1007.59	1006.75	1005.97
1005.12	1002.97	1000.82	998.67	996.51	994.36	992.21	990.06

987.91	985.76	983.61	981.47	979.33	977.20	975.05	972.95
970.82	968.76	966.68	964.75	962.86	961.01	959.14	957.30
955.45	953.62	951.77	949.95	948.10	946.29	944.44	942.14
939.82	937.53	935.21	932.93	930.61	928.33	926.01	923.76
921.19	918.75	916.16	913.74	911.12	908.73	906.09	903.73
901.05	898.73	896.01	893.74	892.86	891.98	891.10	890.22
889.34	888.46	887.58	886.70	885.81	884.94	884.04	883.19
882.25	881.46	880.42	879.76	879.47	879.18	878.89	878.60
878.30	878.01	877.71	877.42	877.13	876.83	876.54	876.24
875.95	875.65	875.35	875.06	874.76	874.47	874.17	873.87

PROFILE OF INVERT ELEVATION (HS) AND INITIAL WATER SURFACE ELEVATION (YI) ALONG WATERWAY (X)

X(MILES) HST(FEET) -- "*" YI(FEET) -- "+"



X	HS	YI	DEPTH
.00	1033.10	1040.00	6.90
.01	1033.00	1033.90	.90
.15	1029.00	1029.41	.41
.28	1023.00	1023.28	.28
.53	1013.00	1013.58	.58
.80	1005.00	1005.12	.12
1.70	964.00	964.75	.75
2.30	944.00	944.44	.44
2.85	923.00	923.76	.76
3.62	893.00	893.74	.74
4.50	879.00	879.76	.76

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+       .       .       .       .       .       .       .       .       .       .    5.50  873.00  873.87     .87
873.0   889.7   906.4   923.1   939.8   956.5   973.2   989.9   1006.6  1023.3  1040.0
                                        ELEVATION
```

TIME PARAMETERS OF OUTFLOW HYDROGRAPH IMMEDIATELY DOWNSTREAM OF DAM

PARAMETER	UNITS	VARIABLE	VALUE
TIME TO FAILURE	HR	TFH	.250
TIME TO START OF RISING LIMB OF HYDROGRAPH	HR	TFO	.000
TIME TO PEAK	HR	TP	3.000
TIME STEP SIZE	HR	DTHI	.050

TT = .0000 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1040.00 QU(N) = 500.00 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
1	.000	1040.00	.07	7398.	1500.	1500.	.500	.0350	-.70	.00	2.1	.0	6.90
8	.066	1031.98	1.43	349.	1208.	1208.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.22	409.	1784.	1784.	.500	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.55	323.	1108.	1241.	.500	.0350	-.50	.00	.0	.5	.48
29	.692	1008.37	1.12	447.	2735.	3513.	.500	.0350	-.30	.00	.0	.5	.17
36	.942	998.67	1.03	488.	3625.	4676.	.500	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.28	392.	2178.	2821.	.500	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	294.	909.	1190.	.500	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.46	342.	1272.	1604.	.500	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.500	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.85	270.	798.	1093.	.500	.0350	.00	.00	.0	.6	.68
78	3.235	908.73	1.50	334.	914.	1188.	.500	.0350	.00	.00	.0	.4	.73
85	3.675	892.86	1.20	416.	1127.	1383.	.500	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	434.	1238.	1460.	.500	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.51	330.	1207.	1350.	.500	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.77	646.	1598.	1763.	.500	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1478.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.83	603.	1389.	1519.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

TT = .0000 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1039.95 QU(N) = 500.00 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
1	.000	1039.95	.07	7321.	1496.	1496.	.500	.0350	-.70	-.05	2.1	.0	6.85
8	.066	1031.98	1.43	349.	1208.	1208.	.500	.0350	-.70	.00	.0	.5	.58

15	.131	1029.99	1.21	413.	1792.	1792.	.500	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.55	323.	1108.	1241.	.501	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.08	464.	2746.	3529.	.500	.0350	-.30	.01	.0	.5	.18
36	.942	998.67	1.02	489.	3626.	4677.	.500	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.28	392.	2178.	2821.	.500	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	294.	909.	1190.	.500	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.46	342.	1272.	1604.	.500	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	377.	1602.	2016.	.504	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.85	270.	798.	1093.	.500	.0350	.00	.00	.0	.6	.68
78	3.235	908.73	1.48	337.	918.	1193.	.500	.0350	.00	.00	.0	.4	.73
85	3.675	892.86	1.20	416.	1127.	1383.	.501	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	435.	1240.	1462.	.500	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	330.	1207.	1350.	.501	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.77	646.	1598.	1763.	.500	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1478.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.83	605.	1392.	1522.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	.000	500.0	1039.95	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .0000 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1039.90 QU(N) = 500.00 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.90	.07	7244.	1492.	1492.	.500	.0350	-.70	-.03	2.1	.0	6.80
8	.066	1031.98	1.43	349.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.500	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	324.	1108.	1242.	.510	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.11	464.	2746.	3529.	.517	.0350	-.30	-.00	.0	.5	.18
36	.942	998.67	1.02	489.	3626.	4677.	.501	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.28	392.	2178.	2821.	.503	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	294.	910.	1191.	.500	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.46	342.	1272.	1604.	.500	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.502	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.87	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.73	1.50	337.	918.	1193.	.506	.0350	.00	-.00	.0	.4	.73
85	3.675	892.86	1.20	416.	1127.	1383.	.501	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	435.	1240.	1462.	.501	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1208.	1351.	.503	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.77	646.	1598.	1763.	.500	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1478.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	607.	1393.	1524.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.000	500.0	1039.90	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .0500 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1039.85 QU(N) = 500.00 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.85	.07	7168.	1488.	1488.	.500	.0350	-.70	-.05	2.1	.0	6.75
8	.066	1031.98	1.43	350.	1210.	1210.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.500	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.56	324.	1108.	1242.	.505	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.09	466.	2747.	3530.	.506	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.02	489.	3626.	4677.	.500	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.28	392.	2178.	2821.	.501	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	294.	910.	1191.	.501	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.46	342.	1272.	1604.	.500	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.502	.0350	.00	.00	.0	.6	.68
78	3.235	908.73	1.49	338.	919.	1194.	.502	.0350	.00	.00	.0	.4	.73
85	3.675	892.86	1.20	416.	1127.	1383.	.501	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	435.	1240.	1462.	.501	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1208.	1351.	.502	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.77	646.	1598.	1763.	.500	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1478.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	608.	1395.	1525.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.050	500.0	1039.85	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .1000 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1039.80 QU(N) = 500.00 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.80	.07	7092.	1485.	1485.	.500	.0350	-.70	-.10	2.1	.0	6.70
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	325.	1110.	1244.	.510	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.11	466.	2748.	3531.	.515	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.02	489.	3626.	4677.	.501	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.28	392.	2178.	2821.	.503	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	295.	910.	1192.	.502	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.46	342.	1272.	1604.	.500	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.502	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	338.	919.	1195.	.506	.0350	.00	.00	.0	.4	.74
85	3.675	892.86	1.20	417.	1128.	1384.	.502	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	435.	1240.	1462.	.501	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1352.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.77	646.	1598.	1763.	.500	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1478.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	609.	1396.	1526.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.100	500.0	1039.80	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .1500 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1039.74 QU(N) = 500.00 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.74	.07	7016.	1481.	1481.	.500	.0350	-.70	-.15	2.1	.0	6.64
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.56	325.	1111.	1244.	.509	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.09	466.	2748.	3531.	.510	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.02	490.	3627.	4678.	.502	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.28	392.	2178.	2821.	.502	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	295.	911.	1192.	.503	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.46	342.	1272.	1604.	.500	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.503	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.504	.0350	.00	.00	.0	.4	.74
85	3.675	892.86	1.20	417.	1129.	1385.	.503	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	435.	1240.	1462.	.501	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1352.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.77	646.	1598.	1763.	.500	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1478.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	609.	1396.	1527.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.150	500.0	1039.74	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .2000 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1039.69 QU(N) = 500.00 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.69	.07	6940.	1477.	1477.	.500	.0350	-.70	-.20	2.1	.0	6.59
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	466.	2748.	3531.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	493.	3628.	4680.	.508	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.28	392.	2178.	2821.	.503	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	295.	911.	1193.	.503	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.46	342.	1272.	1604.	.501	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	418.	1129.	1386.	.504	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	435.	1240.	1462.	.501	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.77	646.	1598.	1763.	.500	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1478.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	610.	1397.	1528.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.200	500.0	1039.69	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .2500 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1039.64 QU(N) = 500.00 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.64	.07	6865.	1473.	1473.	.500	.0350	-.70	-.26	2.1	.0	6.54
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.510	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	466.	2748.	3531.	.511	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	495.	3629.	4681.	.511	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.28	392.	2178.	2821.	.502	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	296.	911.	1193.	.504	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.46	342.	1272.	1604.	.500	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.503	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.504	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	418.	1130.	1386.	.504	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	435.	1240.	1462.	.501	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.77	646.	1598.	1763.	.500	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1478.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	610.	1397.	1528.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.250	500.0	1039.64	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .3000 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1039.59 QU(N) = 500.00 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.59	.07	6789.	1469.	1469.	.500	.0350	-.70	-.31	2.1	.0	6.49
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3531.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	496.	3630.	4682.	.512	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.28	392.	2178.	2821.	.503	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	296.	911.	1193.	.504	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.46	342.	1272.	1604.	.501	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	418.	1130.	1387.	.504	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	435.	1240.	1462.	.501	.0350	.00	.00	.0	.3	.70

99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.77	646.	1599.	1764.	.501	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1478.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	610.	1397.	1528.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.300	500.0	1039.59	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .3500 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1039.54 QU(N) = 500.01 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.54	.07	6714.	1465.	1465.	.500	.0350	-.70	-.36	2.1	.0	6.44
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3531.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4682.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.28	392.	2178.	2821.	.502	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	296.	912.	1193.	.504	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.46	342.	1272.	1605.	.501	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1130.	1387.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	435.	1240.	1462.	.501	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.77	647.	1599.	1764.	.501	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1478.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	610.	1397.	1528.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.350	500.0	1039.54	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .4000 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1039.49 QU(N) = 500.04 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.49	.08	6639.	1462.	1462.	.500	.0350	-.70	-.41	2.1	.0	6.39
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3531.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4682.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.28	392.	2178.	2821.	.503	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	296.	912.	1193.	.504	.0350	-.10	.00	.0	.5	.44

57	1.973	955.45	1.46	343.	1273.	1606.	.502	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1130.	1387.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	435.	1240.	1462.	.501	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.77	647.	1599.	1764.	.501	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1478.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	610.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.400	500.0	1039.49	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .4500 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1039.44 QU(N) = 500.06 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.44	.08	6564.	1458.	1458.	.500	.0350	-.70	-.46	2.1	.0	6.34
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4682.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.28	392.	2178.	2821.	.503	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	296.	912.	1193.	.504	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.46	343.	1273.	1606.	.502	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1130.	1387.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	435.	1240.	1463.	.501	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	647.	1600.	1765.	.502	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1478.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.450	500.0	1039.44	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .5000 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1039.38 QU(N) = 500.16 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.38	.08	6489.	1454.	1454.	.500	.0350	-.70	-.51	2.1	.0	6.28
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58

15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4682.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.28	393.	2179.	2822.	.505	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	296.	912.	1193.	.504	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.46	343.	1274.	1607.	.503	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1130.	1387.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	436.	1241.	1463.	.502	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1352.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	648.	1600.	1765.	.502	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1478.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.500	500.0	1039.38	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .5500 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1039.33 QU(N) = 500.14 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.33	.08	6414.	1450.	1450.	.500	.0350	-.70	-.56	2.1	.0	6.23
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4682.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.61	1.29	394.	2180.	2823.	.507	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	296.	912.	1193.	.504	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.46	344.	1275.	1608.	.503	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	436.	1241.	1464.	.502	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	648.	1601.	1766.	.502	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1479.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.550	500.0	1039.33	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .6000 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1039.28 QU(N) = 500.15 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.28	.08	6339.	1446.	1446.	.500	.0350	-.70	-.62	2.1	.0	6.18
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4682.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	396.	2181.	2825.	.510	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	296.	912.	1193.	.504	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.47	344.	1275.	1608.	.504	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	436.	1242.	1464.	.503	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	648.	1601.	1766.	.503	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1479.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.600	500.0	1039.28	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .6500 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1039.23 QU(N) = 500.14 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.23	.08	6265.	1442.	1442.	.500	.0350	-.70	-.67	2.1	.0	6.13
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4682.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	396.	2181.	2825.	.512	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	296.	912.	1193.	.504	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.47	344.	1275.	1608.	.504	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	437.	1242.	1465.	.503	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	649.	1601.	1767.	.503	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1479.	1623.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.650	500.0	1039.23	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .7000 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1039.18 QU(N) = 500.14 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.18	.08	6191.	1438.	1438.	.500	.0350	-.70	-.72	2.1	.0	6.08
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.512	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	296.	912.	1193.	.504	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.47	344.	1275.	1608.	.504	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	437.	1242.	1465.	.504	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	649.	1602.	1767.	.503	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	625.	1479.	1624.	.500	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.700	500.0	1039.18	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .7500 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1039.13 QU(N) = 500.14 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.13	.08	6116.	1435.	1435.	.500	.0350	-.70	-.77	2.1	.0	6.03
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.70	296.	912.	1194.	.505	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.47	344.	1275.	1608.	.504	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	437.	1243.	1465.	.504	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	649.	1602.	1767.	.503	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	626.	1479.	1624.	.501	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.750	500.0	1039.13	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .8000 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1039.08 QU(N) = 500.14 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.08	.08	6042.	1431.	1431.	.500	.0350	-.70	-.82	2.1	.0	5.98
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	296.	912.	1194.	.506	.0350	-.10	.00	.0	.5	.44
57	1.973	955.45	1.47	344.	1275.	1608.	.504	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	437.	1243.	1466.	.504	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	649.	1602.	1767.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	626.	1479.	1624.	.501	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.800	500.0	1039.08	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .8500 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1039.02 QU(N) = 500.15 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.02	.08	5969.	1427.	1427.	.500	.0350	-.70	-.87	2.1	.0	5.92
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	297.	913.	1196.	.508	.0350	-.10	.00	.0	.5	.45
57	1.973	955.45	1.47	344.	1275.	1608.	.504	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.33	377.	1602.	2016.	.503	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	437.	1243.	1466.	.505	.0350	.00	.00	.0	.3	.70

99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	649.	1602.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	626.	1480.	1624.	.501	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.850	500.0	1039.02	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .9000 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1038.97 QU(N) = 500.15 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.97	.08	5895.	1423.	1423.	.500	.0350	-.70	-.93	2.1	.0	5.87
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	298.	914.	1197.	.510	.0350	-.10	.00	.0	.5	.45
57	1.973	955.45	1.47	344.	1275.	1609.	.504	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	377.	1602.	2016.	.504	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	437.	1243.	1466.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	626.	1480.	1625.	.501	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.900	500.0	1038.97	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = .9500 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1038.92 QU(N) = 500.15 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.92	.09	5821.	1419.	1419.	.500	.0350	-.70	-.98	2.1	.0	5.82
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	915.	1198.	.511	.0350	-.10	.00	.0	.5	.45

57	1.973	955.45	1.47	344.	1275.	1609.	.504	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	377.	1602.	2016.	.504	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1243.	1466.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	626.	1480.	1625.	.502	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	.950	500.0	1038.92	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.0000 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1038.87 QU(N) = 500.18 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.87	.09	5748.	1415.	1415.	.500	.0350	-.70	-1.03	2.1	.0	5.77
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.512	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	344.	1275.	1609.	.504	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	377.	1602.	2016.	.504	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1466.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	627.	1480.	1625.	.502	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.000	500.0	1038.87	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.0500 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1038.82 QU(N) = 500.29 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.82	.09	5675.	1411.	1411.	.500	.0350	-.70	-1.08	2.1	.0	5.72
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58

15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	344.	1276.	1610.	.505	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	377.	1602.	2016.	.504	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	627.	1481.	1626.	.502	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.050	500.0	1038.82	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.1000 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1038.76 QU(N) = 500.38 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.76	.09	5602.	1407.	1407.	.500	.0350	-.70	-1.13	2.1	.0	5.66
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	345.	1277.	1611.	.506	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	377.	1602.	2016.	.504	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	627.	1481.	1626.	.502	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.100	500.0	1038.76	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.1500 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1038.71 QU(N) = 500.49 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.71	.09	5529.	1403.	1403.	.500	.0350	-.70	-1.19	2.1	.0	5.61
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	346.	1279.	1613.	.508	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	377.	1602.	2016.	.504	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	627.	1481.	1626.	.503	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1529.	.500	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.150	500.0	1038.71	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.2000 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1038.66 QU(N) = 500.68 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.66	.09	5456.	1400.	1400.	.500	.0350	-.70	-1.24	2.1	.0	5.56
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	347.	1280.	1615.	.509	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	377.	1602.	2016.	.504	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	628.	1481.	1626.	.503	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1398.	1530.	.501	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.200	500.0	1038.66	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.2500 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1038.61 QU(N) = 500.77 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.61	.09	5383.	1396.	1396.	.500	.0350	-.70	-1.29	2.1	.0	5.51
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	347.	1282.	1617.	.511	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	377.	1602.	2016.	.504	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	331.	1209.	1353.	.504	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	628.	1482.	1627.	.503	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1399.	1530.	.501	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.250	500.0	1038.61	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.3000 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1038.56 QU(N) = 500.98 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.56	.09	5311.	1392.	1392.	.500	.0350	-.70	-1.34	2.1	.0	5.46
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	348.	1282.	1618.	.512	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	377.	1602.	2016.	.504	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1209.	1353.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	628.	1482.	1627.	.503	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	611.	1399.	1530.	.501	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.300	500.0	1038.56	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.3500 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1038.50 QU(N) = 501.16 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.50	.10	5239.	1388.	1388.	.500	.0350	-.70	-1.39	2.1	.0	5.40
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	348.	1283.	1619.	.512	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	377.	1602.	2016.	.505	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1353.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	628.	1482.	1627.	.503	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	612.	1399.	1530.	.501	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.350	500.0	1038.50	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.4000 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1038.45 QU(N) = 501.36 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.45	.10	5167.	1384.	1384.	.500	.0350	-.70	-1.44	2.1	.0	5.35
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	348.	1283.	1619.	.513	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	377.	1602.	2016.	.505	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70

99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	628.	1482.	1627.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	612.	1399.	1530.	.501	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.400	500.0	1038.45	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.4500 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1038.40 QU(N) = 501.64 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.40	.10	5095.	1380.	1380.	.500	.0350	-.70	-1.50	2.1	.0	5.30
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	348.	1284.	1619.	.513	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	378.	1603.	2018.	.505	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	628.	1482.	1627.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	612.	1399.	1531.	.502	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.450	500.0	1038.40	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.5000 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1038.35 QU(N) = 501.79 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.35	.10	5024.	1376.	1376.	.500	.0350	-.70	-1.55	2.1	.0	5.25
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45

57	1.973	955.45	1.47	348.	1284.	1619.	.513	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	378.	1604.	2019.	.506	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	628.	1482.	1628.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	612.	1400.	1531.	.502	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.500	500.0	1038.35	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.5500 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1038.30 QU(N) = 501.99 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.30	.10	4952.	1372.	1372.	.500	.0350	-.70	-1.60	2.1	.0	5.20
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	348.	1284.	1619.	.513	.0350	.00	.00	.0	.5	.54
64	2.361	942.14	1.34	379.	1605.	2021.	.508	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1628.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	612.	1400.	1531.	.502	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.550	500.0	1038.30	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.6000 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1038.25 QU(N) = 502.17 YU(N) = 873.87

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.25	.10	4882.	1368.	1368.	.500	.0350	-.70	-1.65	2.1	.0	5.15
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58

15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1619.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	380.	1607.	2023.	.509	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1768.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1628.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.87	.82	612.	1400.	1531.	.502	.0350	.00	.00	.0	.2	.87

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.600	500.0	1038.25	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.6500 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1038.19 QU(N) = 502.36 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.19	.10	4811.	1365.	1365.	.500	.0350	-.70	-1.70	2.1	.0	5.09
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1619.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	380.	1609.	2025.	.510	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1769.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1628.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	613.	1400.	1531.	.502	.0350	.00	.00	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.650	500.0	1038.19	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.7000 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1038.14 QU(N) = 502.55 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.14	.11	4741.	1361.	1361.	.500	.0350	-.70	-1.75	2.1	.0	5.04
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	381.	1610.	2026.	.511	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.87	270.	798.	1093.	.504	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1769.	.504	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1628.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	613.	1400.	1532.	.503	.0350	.00	.00	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.700	500.0	1038.14	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.7500 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1038.09 QU(N) = 502.74 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.09	.11	4672.	1357.	1357.	.500	.0350	-.70	-1.81	2.1	.0	4.99
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	381.	1610.	2027.	.512	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.86	271.	798.	1093.	.505	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1603.	1769.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1628.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	613.	1400.	1532.	.503	.0350	.00	.00	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.750	500.0	1038.09	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.8000 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1038.04 QU(N) = 502.92 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.04	.11	4603.	1353.	1353.	.500	.0350	-.70	-1.86	2.1	.0	4.94
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	381.	1611.	2027.	.512	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.87	271.	798.	1093.	.505	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1604.	1769.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1628.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	613.	1401.	1532.	.503	.0350	.00	.00	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.800	500.0	1038.04	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.8500 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1037.99 QU(N) = 503.11 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1037.99	.11	4534.	1349.	1349.	.500	.0350	-.70	-1.91	2.1	.0	4.89
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1611.	2028.	.512	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.87	271.	799.	1094.	.506	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1604.	1769.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1628.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	613.	1401.	1532.	.503	.0350	.00	.00	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.850	500.0	1037.99	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.9000 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1037.94 QU(N) = 503.28 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1037.94	.11	4467.	1345.	1345.	.500	.0350	-.70	-1.96	2.1	.0	4.84
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1611.	2028.	.512	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.87	272.	799.	1095.	.507	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	650.	1604.	1769.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1628.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	613.	1401.	1532.	.503	.0350	.00	.00	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.900	500.0	1037.94	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 1.9500 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1037.89 QU(N) = 503.37 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1037.89	.11	4399.	1342.	1342.	.500	.0350	-.70	-2.01	2.1	.0	4.79
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1611.	2028.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.87	272.	800.	1096.	.508	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70

99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1769.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1628.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1401.	1533.	.503	.0350	.00	.00	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	1.950	500.0	1037.89	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.0000 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1037.84 QU(N) = 503.56 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1037.84	.12	4333.	1338.	1338.	.500	.0350	-.70	-2.06	2.1	.0	4.74
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1611.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.87	272.	801.	1097.	.509	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	919.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1769.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1628.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1401.	1533.	.504	.0350	.00	.00	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	2.000	500.0	1037.84	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.0500 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1037.79 QU(N) = 503.63 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1037.79	.12	4269.	1334.	1334.	.500	.0350	-.70	-2.11	2.1	.0	4.69
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45

57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1611.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.87	273.	801.	1098.	.510	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	920.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1769.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1628.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1401.	1533.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	2.050	500.0	1037.79	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.1000 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1037.75 QU(N) = 503.73 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1037.75	.12	4211.	1331.	1331.	.500	.0350	-.70	-2.15	2.1	.0	4.65
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1611.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.01	1.87	273.	802.	1099.	.511	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	920.	1195.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1628.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1402.	1533.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	2.100	500.0	1037.75	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.1500 DTH = .0500 ITERR = 0
QU(1) = 500.00 YU(1) = 1037.71 QU(N) = 503.81 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1037.71	.12	4158.	1328.	1328.	.500	.0350	-.70	-2.19	2.1	.0	4.61
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58

15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1611.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	802.	1099.	.512	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	338.	920.	1196.	.505	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1629.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1402.	1533.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	2.150	500.0	1037.71	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.2000 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1037.67 QU(N) = 503.81 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1037.67	.12	4111.	1326.	1326.	.500	.0350	-.70	-2.22	2.1	.0	4.57
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1611.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.512	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.49	339.	920.	1196.	.506	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1629.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1402.	1533.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	2.200	500.0	1037.67	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.2500 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1037.64 QU(N) = 503.93 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1037.64	.12	4070.	1323.	1323.	.500	.0350	-.70	-2.26	2.1	.0	4.54
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1611.	2028.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.512	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	339.	920.	1197.	.507	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1629.	.504	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1402.	1533.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	2.250	500.0	1037.64	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.3000 DTH = .0500 ITERR = 0

QU(1) = 500.00 YU(1) = 1037.65 QU(N) = 504.00 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1037.65	.12	4075.	1324.	1324.	.500	.0350	-.70	-2.25	2.1	.0	4.55
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1611.	2028.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.512	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	339.	921.	1197.	.508	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1629.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1402.	1533.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	2.300	500.0	1037.65	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.3500 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1037.72 QU(N) = 504.00 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1037.72	.12	4171.	1329.	1329.	.500	.0350	-.70	-2.18	2.1	.0	4.62
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1611.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	340.	921.	1198.	.509	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1483.	1629.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1402.	1533.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.350	500.0	1037.72	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.4000 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1037.86 QU(N) = 504.10 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1037.86	.11	4357.	1339.	1339.	.500	.0350	-.70	-2.04	2.1	.0	4.76
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1611.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	340.	922.	1199.	.510	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	629.	1484.	1629.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1402.	1533.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.400	500.0	1037.86	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.4500 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1038.06 QU(N) = 504.10 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.06	.11	4635.	1355.	1355.	.500	.0350	-.70	-1.83	2.1	.0	4.96
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	340.	923.	1199.	.511	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.505	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1629.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1402.	1533.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.450	500.0	1038.06	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.5000 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1038.34 QU(N) = 504.19 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.34	.10	5008.	1375.	1375.	.500	.0350	-.70	-1.56	2.1	.0	5.24
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	341.	923.	1200.	.511	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.506	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70

99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1629.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1402.	1534.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.500	500.0	1038.34	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.5500 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1038.68 QU(N) = 504.19 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.68	.09	5485.	1401.	1401.	.500	.0350	-.70	-1.22	2.1	.0	5.58
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	341.	923.	1200.	.512	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	419.	1131.	1388.	.506	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1629.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1402.	1534.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.550	500.0	1038.68	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.6000 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1039.10 QU(N) = 504.28 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.10	.08	6080.	1433.	1433.	.500	.0350	-.70	-.80	2.1	.0	6.00
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45

57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	341.	923.	1200.	.512	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	420.	1132.	1389.	.507	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1629.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1402.	1534.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.600	500.0	1039.10	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.6500 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1039.60 QU(N) = 504.29 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.60	.07	6797.	1470.	1470.	.500	.0350	-.70	-.30	2.1	.0	6.50
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	341.	924.	1201.	.512	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	420.	1132.	1390.	.507	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1629.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	614.	1402.	1534.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.650	500.0	1039.60	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.7000 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1040.16 QU(N) = 504.38 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.16	.07	7636.	1512.	1512.	.500	.0350	-.70	.26	2.1	.0	7.06
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58

15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	341.	924.	1201.	.513	.0350	.00	.00	.0	.4	.74
85	3.675	892.87	1.21	421.	1133.	1391.	.508	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1629.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1402.	1534.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.700	500.0	1040.16	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.7500 DTH = .0500 ITERR = 1

QU(1) = 500.00 YU(1) = 1040.77 QU(N) = 504.48 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.77	.06	8574.	1558.	1558.	.500	.0350	-.70	.87	2.1	.0	7.67
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	924.	1201.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	421.	1134.	1392.	.509	.0350	.00	.00	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.505	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1629.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1402.	1534.	.504	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.750	500.0	1040.77	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.8000 DTH = .0500 ITERR = 1

QU(1) = 500.00 YU(1) = 1041.51 QU(N) = 504.57 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1041.51	.05	9751.	1613.	1613.	.500	.0350	-.70	1.61	2.1	.0	8.41
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	924.	1201.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	422.	1135.	1392.	.510	.0350	.00	.01	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.506	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1629.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1534.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.800	500.0	1041.51	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.8500 DTH = .0500 ITERR = 1

QU(1) = 500.00 YU(1) = 1042.43 QU(N) = 504.56 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1042.43	.04	11259.	1682.	1682.	.500	.0350	-.70	2.53	2.1	.0	9.33
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	924.	1201.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	422.	1135.	1393.	.511	.0350	.00	.01	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.506	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1629.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1534.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.850	500.0	1042.43	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.9000 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1043.41 QU(N) = 504.66 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1043.41	.04	12956.	1756.	1756.	.500	.0350	-.70	3.52	2.1	.0	10.31
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	924.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	423.	1136.	1394.	.511	.0350	.00	.01	.0	.3	.74
92	4.060	886.70	1.15	438.	1244.	1467.	.506	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1534.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.900	500.0	1043.41	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 2.9500 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1044.42 QU(N) = 504.66 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1044.42	.03	14765.	1832.	1832.	.500	.0350	-.70	4.53	2.1	.0	11.32
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	924.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	423.	1136.	1394.	.512	.0350	.00	.01	.0	.3	.74
92	4.060	886.70	1.15	438.	1245.	1468.	.506	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1534.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	2.950	500.0	1044.42	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 3.0000 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1045.44 QU(N) = 504.75 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1045.44	.03	16676.	1908.	1908.	.500	.0350	-.70	5.55	2.1	.0	12.34
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	924.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	423.	1136.	1395.	.512	.0350	.00	.01	.0	.3	.74
92	4.060	886.70	1.16	439.	1245.	1468.	.507	.0350	.00	.00	.0	.3	.70
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1534.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.000	500.0	1045.44	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 3.0500 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1046.41 QU(N) = 504.75 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1046.41	.03	18546.	1980.	1980.	.500	.0350	-.70	6.51	2.1	.0	13.31
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	423.	1137.	1395.	.513	.0350	.00	.01	.0	.3	.74
92	4.060	886.71	1.16	439.	1246.	1469.	.507	.0350	.00	.00	.0	.3	.71

99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1534.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.050	500.0	1046.41	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 3.1000 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1047.26 QU(N) = 504.85 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1047.26	.02	20273.	2045.	2045.	.500	.0350	-.70	7.37	2.1	.0	14.16
8	.066	1031.98	1.43	350.	1209.	1209.	.501	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	423.	1137.	1395.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	439.	1246.	1469.	.508	.0350	.00	.00	.0	.3	.71
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1534.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.100	500.0	1047.26	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 3.1500 DTH = .0500 ITERR = 1
QU(1) = 500.00 YU(1) = 1048.04 QU(N) = 504.85 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1048.04	.02	21889.	2103.	2103.	.500	.0350	-.70	8.15	2.1	.0	14.94
8	.066	1031.98	1.43	350.	1209.	1209.	.500	.0350	-.70	.00	.0	.5	.58
15	.131	1029.99	1.21	413.	1792.	1792.	.501	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45

57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1395.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	440.	1247.	1470.	.509	.0350	.00	.00	.0	.3	.71
99	4.445	880.42	1.52	332.	1210.	1354.	.505	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1534.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.150	500.0	1048.04	1055.40	1033.90	1.00	.0	500.0	.0	.0	500.0

TT = 3.2000 DTH = .0500 ITERR = 2
QU(1) = 585.30 YU(1) = 1048.75 QU(N) = 504.94 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1048.75	.03	23395.	2156.	2156.	.585	.0350	-.70	8.85	2.2	.0	15.65
8	.066	1031.99	1.46	363.	1233.	1233.	.529	.0350	-.70	.01	.0	.5	.59
15	.131	1030.00	1.22	416.	1797.	1797.	.506	.0350	-.70	.00	.0	.4	.46
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1395.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	440.	1247.	1471.	.509	.0350	.00	.00	.0	.3	.71
99	4.445	880.42	1.52	332.	1210.	1354.	.506	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1534.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	3.200	585.3	1048.75	1055.40	1033.95	1.00	.0	585.3	.0	.0	585.3

TT = 3.2500 DTH = .0500 ITERR = 2
QU(1) = 1125.90 YU(1) = 1049.39 QU(N) = 504.94 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1049.39	.05	24781.	2204.	2204.	1.126	.0350	-.70	9.49	3.5	.0	16.29
8	.066	1032.08	1.63	477.	1412.	1412.	.779	.0350	-.70	.10	.0	.5	.68

15	.131	1030.02	1.26	451.	1873.	1873.	.568	.0350	-.70	.02	.0	.5	.48
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1395.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	441.	1248.	1472.	.510	.0350	.00	.00	.0	.3	.71
99	4.445	880.42	1.52	332.	1211.	1354.	.506	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1534.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	3.250	1125.9	1049.39	1055.40	1034.18	1.00	.0	1125.9	.0	.0	1125.9

TT = 3.3000 DTH = .0500 ITERR = 1

QU(1) = 1792.31 YU(1) = 1049.95 QU(N) = 505.02 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1049.95	.07	26038.	2246.	2246.	1.792	.0350	-.70	10.05	6.0	.0	16.85
8	.066	1032.24	1.93	738.	1757.	1757.	1.423	.0350	-.70	.26	.0	.5	.84
15	.131	1030.09	1.42	609.	2176.	2176.	.863	.0350	-.70	.10	.0	.5	.56
22	.467	1015.98	1.57	326.	1111.	1245.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1395.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	441.	1249.	1472.	.511	.0350	.00	.00	.0	.3	.71
99	4.445	880.42	1.52	332.	1211.	1355.	.506	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .00 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.300	1792.3	1049.95	1055.40	1034.39	1.00	.0	1792.3	.0	.0	1792.3

TT = 3.3500 DTH = .0500 ITERR = 1

QU(1) = 2782.80 YU(1) = 1050.44 QU(N) = 505.02 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1050.44	.10	27142.	2283.	2283.	2.783	.0350	-.70	10.54	9.5	.0	17.34
8	.066	1032.41	2.20	1076.	2095.	2095.	2.371	.0350	-.70	.44	.0	.5	1.01
15	.131	1030.24	1.66	958.	2729.	2729.	1.591	.0350	-.70	.24	.0	.5	.70
22	.467	1015.98	1.57	326.	1112.	1246.	.511	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1395.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	442.	1249.	1473.	.511	.0350	.00	.01	.0	.3	.71
99	4.445	880.42	1.52	333.	1211.	1355.	.506	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.350	2782.8	1050.44	1055.40	1034.62	1.00	.0	2782.8	.0	.0	2782.8

TT = 3.4000 DTH = .0500 ITERR = 1

QU(1) = 3665.51 YU(1) = 1050.85 QU(N) = 505.01 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1050.85	.13	28097.	2314.	2314.	3.666	.0350	-.70	10.96	13.3	.0	17.75
8	.066	1032.54	2.51	1350.	2143.	2143.	3.392	.0350	-.70	.57	.0	.6	1.14
15	.131	1030.39	1.88	1416.	3317.	3317.	2.667	.0350	-.70	.39	.0	.5	.85
22	.467	1015.98	1.57	329.	1117.	1251.	.518	.0350	-.50	.00	.0	.5	.48
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	442.	1250.	1473.	.512	.0350	.00	.01	.0	.3	.71
99	4.445	880.42	1.52	333.	1212.	1356.	.507	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.400	3665.5	1050.85	1055.40	1034.79	1.00	.0	3665.5	.0	.0	3665.5

TT = 3.4500 DTH = .0500 ITERR = 1
QU(1) = 4426.21 YU(1) = 1051.21 QU(N) = 505.02 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1051.21	.15	28930.	2341.	2341.	4.426	.0350	-.70	11.31	16.7	.0	18.11
8	.066	1032.63	2.73	1540.	2176.	2176.	4.207	.0350	-.70	.65	.0	.6	1.23
15	.131	1030.50	2.04	1832.	3774.	3774.	3.745	.0350	-.70	.51	.0	.5	.97
22	.467	1016.00	1.63	355.	1158.	1296.	.578	.0350	-.50	.03	.0	.5	.50
29	.692	1008.38	1.10	467.	2748.	3532.	.513	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	442.	1250.	1474.	.512	.0350	.00	.01	.0	.3	.71
99	4.445	880.42	1.52	333.	1212.	1356.	.507	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.450	4426.2	1051.21	1055.40	1034.92	1.00	.0	4426.2	.0	.0	4426.2

TT = 3.5000 DTH = .0500 ITERR = 1
QU(1) = 5087.99 YU(1) = 1051.52 QU(N) = 505.01 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1051.52	.17	29663.	2364.	2364.	5.088	.0350	-.70	11.63	19.7	.0	18.42
8	.066	1032.70	2.90	1691.	2201.	2201.	4.904	.0350	-.70	.72	.0	.6	1.30
15	.131	1030.58	2.17	2114.	3907.	3907.	4.593	.0350	-.70	.58	.0	.5	1.04
22	.467	1016.12	1.86	495.	1358.	1515.	.921	.0350	-.50	.14	.0	.5	.62
29	.692	1008.38	1.10	468.	2749.	3533.	.515	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	442.	1250.	1474.	.512	.0350	.00	.01	.0	.3	.71
99	4.445	880.42	1.52	333.	1213.	1357.	.508	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1604.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.500	5088.0	1051.52	1055.40	1035.03	1.00	.0	5088.0	.0	.0	5088.0

TT = 3.5500 DTH = .0500 ITERR = 1
QU(1) = 5667.49 YU(1) = 1051.80 QU(N) = 505.01 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1051.80	.19	30311.	2385.	2385.	5.667	.0350	-.70	11.90	22.2	.0	18.70
8	.066	1032.76	3.04	1816.	2222.	2222.	5.516	.0350	-.70	.78	.0	.6	1.36
15	.131	1030.62	2.28	2292.	3928.	3928.	5.238	.0350	-.70	.63	.0	.5	1.09
22	.467	1016.34	2.27	842.	1759.	1956.	1.910	.0350	-.50	.36	.0	.6	.84
29	.692	1008.38	1.11	474.	2753.	3539.	.526	.0350	-.30	.00	.0	.5	.18
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	442.	1250.	1474.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.52	334.	1213.	1357.	.508	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1605.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.550	5667.5	1051.80	1055.40	1035.11	1.00	.0	5667.5	.0	.0	5667.5

TT = 3.6000 DTH = .0500 ITERR = 1
QU(1) = 6209.55 YU(1) = 1052.04 QU(N) = 505.01 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.04	.20	30884.	2403.	2403.	6.210	.0350	-.70	12.14	24.5	.0	18.94
8	.066	1032.81	3.15	1924.	2240.	2240.	6.068	.0350	-.70	.83	.0	.6	1.41
15	.131	1030.66	2.38	2447.	3946.	3946.	5.834	.0350	-.70	.67	.0	.5	1.13
22	.467	1016.56	2.53	1283.	2245.	2487.	3.247	.0350	-.50	.58	.0	.6	1.06
29	.692	1008.40	1.17	526.	2789.	3587.	.616	.0350	-.30	.02	.0	.5	.20
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	442.	1250.	1474.	.513	.0350	.00	.01	.0	.3	.71

99	4.445	880.43	1.52	334.	1214.	1358.	.509	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1605.	1770.	.505	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.600	6209.6	1052.04	1055.40	1035.18	1.00	.0	6209.6	.0	.0	6209.6

TT = 3.6500 DTH = .0500 ITERR = 1
QU(1) = 6849.88 YU(1) = 1052.25 QU(N) = 505.01 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.25	.22	31392.	2419.	2419.	6.850	.0350	-.70	12.35	27.0	.0	19.15
8	.066	1032.86	3.28	2039.	2259.	2259.	6.679	.0350	-.70	.88	.0	.6	1.46
15	.131	1030.70	2.48	2592.	3963.	3963.	6.419	.0350	-.70	.70	.0	.5	1.17
22	.467	1016.71	2.62	1637.	2696.	2978.	4.290	.0350	-.50	.73	.0	.6	1.21
29	.692	1008.48	1.41	743.	2935.	3784.	1.047	.0350	-.30	.10	.0	.5	.28
36	.942	998.67	1.03	497.	3630.	4683.	.513	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	442.	1250.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.52	335.	1215.	1359.	.510	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1605.	1770.	.506	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.650	6849.9	1052.25	1055.40	1035.27	1.00	.0	6849.9	.0	.0	6849.9

TT = 3.7000 DTH = .0500 ITERR = 1
QU(1) = 7410.79 YU(1) = 1052.43 QU(N) = 505.01 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.43	.23	31839.	2432.	2432.	7.411	.0350	-.70	12.53	29.5	.0	19.33
8	.066	1032.91	3.39	2149.	2276.	2276.	7.282	.0350	-.70	.93	.0	.6	1.51
15	.131	1030.74	2.57	2739.	3980.	3980.	7.038	.0350	-.70	.74	.0	.5	1.20
22	.467	1016.79	2.70	1879.	2966.	3271.	5.065	.0350	-.50	.81	.0	.6	1.29
29	.692	1008.63	1.81	1205.	3223.	4175.	2.182	.0350	-.30	.25	.0	.5	.43
36	.942	998.67	1.03	497.	3630.	4683.	.514	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45

57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1250.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.52	335.	1216.	1360.	.510	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	651.	1605.	1770.	.506	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.700	7410.8	1052.43	1055.40	1035.33	1.00	.0	7410.8	.0	.0	7410.8

TT = 3.7500 DTH = .0500 ITERR = 1
QU(1) = 7898.23 YU(1) = 1052.59 QU(N) = 505.01 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.59	.25	32230.	2444.	2444.	7.898	.0350	-.70	12.69	31.6	.0	19.49
8	.066	1032.94	3.48	2239.	2291.	2291.	7.785	.0350	-.70	.97	.0	.6	1.54
15	.131	1030.77	2.65	2869.	3994.	3994.	7.597	.0350	-.70	.77	.0	.6	1.23
22	.467	1016.86	2.77	2077.	3169.	3491.	5.743	.0350	-.50	.88	.0	.6	1.36
29	.692	1008.78	2.12	1715.	3514.	4568.	3.644	.0350	-.30	.40	.0	.5	.58
36	.942	998.67	1.04	501.	3632.	4685.	.520	.0350	-.10	.00	.0	.5	.14
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.52	335.	1216.	1360.	.511	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	652.	1605.	1771.	.506	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.750	7898.2	1052.59	1055.40	1035.39	1.00	.0	7898.2	.0	.0	7898.2

TT = 3.8000 DTH = .0500 ITERR = 1
QU(1) = 8253.64 YU(1) = 1052.71 QU(N) = 505.01 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.71	.25	32517.	2453.	2453.	8.254	.0350	-.70	12.81	33.4	.0	19.61
8	.066	1032.97	3.55	2307.	2302.	2302.	8.179	.0350	-.70	1.00	.0	.6	1.57

15	.131	1030.79	2.71	2968.	4006.	4006.	8.035	.0350	-.70	.80	.0	.6	1.26
22	.467	1016.91	2.82	2265.	3351.	3689.	6.392	.0350	-.50	.94	.0	.6	1.41
29	.692	1008.88	2.30	2068.	3702.	4823.	4.761	.0350	-.30	.50	.0	.5	.68
36	.942	998.68	1.09	537.	3650.	4713.	.585	.0350	-.10	.01	.0	.5	.15
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.52	335.	1217.	1361.	.511	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	652.	1605.	1771.	.506	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.800	8253.6	1052.71	1055.40	1035.43	1.00	.0	8253.6	.0	.0	8253.6

TT = 3.8500 DTH = .0500 ITERR = 1

QU(1) = 8422.00 YU(1) = 1052.76 QU(N) = 505.01 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.76	.26	32652.	2457.	2457.	8.422	.0350	-.70	12.87	34.5	.0	19.66
8	.066	1032.99	3.58	2345.	2308.	2308.	8.395	.0350	-.70	1.01	.0	.6	1.59
15	.131	1030.81	2.74	3034.	4013.	4013.	8.327	.0350	-.70	.82	.0	.6	1.28
22	.467	1016.96	2.88	2443.	3514.	3867.	7.031	.0350	-.50	.99	.0	.6	1.46
29	.692	1008.94	2.41	2306.	3823.	4987.	5.554	.0350	-.30	.56	.0	.5	.74
36	.942	998.75	1.41	817.	3789.	4918.	1.154	.0350	-.10	.09	.0	.5	.23
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.52	336.	1217.	1361.	.512	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	652.	1606.	1771.	.507	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.850	8422.0	1052.76	1055.40	1035.45	1.00	.0	8422.0	.0	.0	8422.0

TT = 3.9000 DTH = .0500 ITERR = 1

QU(1) = 8415.12 YU(1) = 1052.76 QU(N) = 505.01 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.76	.26	32647.	2457.	2457.	8.415	.0350	-.70	12.86	34.8	.0	19.66
8	.066	1032.99	3.58	2351.	2309.	2309.	8.426	.0350	-.70	1.02	.0	.6	1.59
15	.131	1030.82	2.76	3057.	4016.	4016.	8.427	.0350	-.70	.82	.0	.6	1.28
22	.467	1017.01	2.92	2599.	3651.	4016.	7.595	.0350	-.50	1.03	.0	.6	1.51
29	.692	1008.99	2.50	2504.	3921.	5120.	6.256	.0350	-.30	.61	.0	.6	.79
36	.942	998.91	2.01	1432.	4077.	5345.	2.873	.0350	-.10	.24	.0	.6	.38
43	1.274	983.62	1.29	397.	2182.	2826.	.513	.0350	-.10	.00	.0	.5	.19
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.52	336.	1217.	1362.	.512	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	652.	1606.	1772.	.507	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.900	8415.1	1052.76	1055.40	1035.45	1.00	.0	8415.1	.0	.0	8415.1

TT = 3.9500 DTH = .0500 ITERR = 1

QU(1) = 8243.78 YU(1) = 1052.71 QU(N) = 505.01 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.71	.25	32509.	2453.	2453.	8.244	.0350	-.70	12.81	34.4	.0	19.61
8	.066	1032.98	3.56	2330.	2306.	2306.	8.294	.0350	-.70	1.01	.0	.6	1.58
15	.131	1030.81	2.75	3042.	4014.	4014.	8.354	.0350	-.70	.82	.0	.6	1.28
22	.467	1017.04	2.95	2716.	3751.	4125.	8.022	.0350	-.50	1.06	.0	.6	1.54
29	.692	1009.04	2.57	2682.	4007.	5237.	6.906	.0350	-.30	.66	.0	.6	.84
36	.942	999.05	2.36	1995.	4324.	5712.	4.715	.0350	-.10	.38	.0	.6	.52
43	1.274	983.62	1.29	398.	2182.	2827.	.515	.0350	-.10	.00	.0	.5	.20
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1217.	1362.	.512	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	653.	1607.	1772.	.507	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.506	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	3.950	8243.8	1052.71	1055.40	1035.43	1.00	.0	8243.8	.0	.0	8243.8

TT = 4.0000 DTH = .0500 ITERR = 1
QU(1) = 7916.47 YU(1) = 1052.60 QU(N) = 505.02 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.60	.25	32245.	2445.	2445.	7.916	.0350	-.70	12.70	33.4	.0	19.50
8	.066	1032.96	3.51	2281.	2298.	2298.	8.003	.0350	-.70	.98	.0	.6	1.56
15	.131	1030.80	2.71	2993.	4009.	4009.	8.124	.0350	-.70	.80	.0	.6	1.27
22	.467	1017.06	2.97	2787.	3810.	4188.	8.276	.0350	-.50	1.08	.0	.6	1.56
29	.692	1009.08	2.64	2837.	4081.	5336.	7.483	.0350	-.30	.70	.0	.6	.88
36	.942	999.11	2.53	2285.	4446.	5892.	5.773	.0350	-.10	.44	.0	.6	.58
43	1.274	983.62	1.32	410.	2190.	2838.	.539	.0350	-.10	.01	.0	.5	.20
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1217.	1362.	.512	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	653.	1607.	1773.	.508	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1484.	1630.	.505	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.000	7916.5	1052.60	1055.40	1035.40	1.00	.0	7916.5	.0	.0	7916.5

TT = 4.0500 DTH = .0500 ITERR = 1
QU(1) = 7589.21 YU(1) = 1052.49 QU(N) = 505.03 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.49	.24	31982.	2437.	2437.	7.589	.0350	-.70	12.59	32.0	.0	19.39
8	.066	1032.94	3.45	2222.	2288.	2288.	7.665	.0350	-.70	.96	.0	.6	1.54
15	.131	1030.78	2.67	2921.	4000.	4000.	7.798	.0350	-.70	.79	.0	.6	1.25
22	.467	1017.06	2.97	2808.	3827.	4208.	8.348	.0350	-.50	1.09	.0	.6	1.56
29	.692	1009.10	2.68	2955.	4136.	5411.	7.925	.0350	-.30	.72	.0	.6	.90
36	.942	999.15	2.63	2470.	4522.	6005.	6.494	.0350	-.10	.49	.0	.6	.63
43	1.274	983.69	1.57	557.	2288.	2977.	.878	.0350	-.10	.07	.0	.6	.27
50	1.605	968.76	1.71	299.	916.	1199.	.513	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1217.	1362.	.512	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	654.	1608.	1773.	.508	.0350	.00	.00	.0	.2	.81
113	5.150	875.95	.80	630.	1485.	1630.	.506	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.050	7589.2	1052.49	1055.40	1035.36	1.00	.0	7589.2	.0	.0	7589.2

TT = 4.1000 DTH = .0500 ITERR = 1
QU(1) = 7410.67 YU(1) = 1052.43 QU(N) = 505.12 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.43	.23	31839.	2432.	2432.	7.411	.0350	-.70	12.53	31.0	.0	19.33
8	.066	1032.92	3.41	2182.	2282.	2282.	7.443	.0350	-.70	.94	.0	.6	1.52
15	.131	1030.77	2.63	2858.	3993.	3993.	7.520	.0350	-.70	.77	.0	.5	1.23
22	.467	1017.06	2.96	2786.	3809.	4188.	8.255	.0350	-.50	1.08	.0	.6	1.56
29	.692	1009.12	2.71	3029.	4170.	5457.	8.198	.0350	-.30	.74	.0	.6	.92
36	.942	999.19	2.72	2631.	4587.	6102.	7.146	.0350	-.10	.52	.0	.6	.66
43	1.274	983.91	2.32	1104.	2616.	3446.	2.562	.0350	-.10	.30	.0	.6	.49
50	1.605	968.76	1.71	300.	916.	1200.	.514	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	654.	1608.	1774.	.509	.0350	.00	.01	.0	.2	.81
113	5.150	875.95	.80	630.	1485.	1630.	.506	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.100	7410.7	1052.43	1055.40	1035.34	1.00	.0	7410.7	.0	.0	7410.7

TT = 4.1500 DTH = .0500 ITERR = 1
QU(1) = 7372.99 YU(1) = 1052.42 QU(N) = 505.12 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.42	.23	31809.	2431.	2431.	7.373	.0350	-.70	12.52	30.5	.0	19.32
8	.066	1032.91	3.40	2169.	2280.	2280.	7.374	.0350	-.70	.94	.0	.6	1.51
15	.131	1030.76	2.61	2826.	3990.	3990.	7.391	.0350	-.70	.76	.0	.5	1.22
22	.467	1017.04	2.95	2730.	3763.	4137.	8.042	.0350	-.50	1.07	.0	.6	1.54
29	.692	1009.13	2.71	3056.	4183.	5474.	8.289	.0350	-.30	.75	.0	.6	.93
36	.942	999.22	2.78	2760.	4638.	6178.	7.668	.0350	-.10	.55	.0	.6	.69
43	1.274	984.15	2.83	1773.	2969.	3950.	5.012	.0350	-.10	.54	.0	.6	.73
50	1.605	968.77	1.73	304.	921.	1206.	.524	.0350	-.10	.01	.0	.5	.45
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1100.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71

99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	655.	1609.	1775.	.509	.0350	.00	.01	.0	.2	.81
113	5.150	875.95	.80	630.	1485.	1630.	.506	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.150	7373.0	1052.42	1055.40	1035.33	1.00	.0	7373.0	.0	.0	7373.0

TT = 4.2000 DTH = .0500 ITERR = 1
QU(1) = 7467.73 YU(1) = 1052.45 QU(N) = 505.22 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.45	.23	31885.	2434.	2434.	7.468	.0350	-.70	12.55	30.7	.0	19.35
8	.066	1032.92	3.41	2179.	2281.	2281.	7.436	.0350	-.70	.94	.0	.6	1.52
15	.131	1030.76	2.62	2829.	3990.	3990.	7.403	.0350	-.70	.76	.0	.5	1.22
22	.467	1017.03	2.92	2661.	3704.	4074.	7.781	.0350	-.50	1.05	.0	.6	1.53
29	.692	1009.13	2.70	3043.	4177.	5466.	8.224	.0350	-.30	.74	.0	.6	.93
36	.942	999.23	2.82	2847.	4673.	6229.	8.030	.0350	-.10	.57	.0	.6	.71
43	1.274	984.26	3.04	2122.	3137.	4191.	6.443	.0350	-.10	.65	.0	.7	.84
50	1.605	968.82	1.86	349.	974.	1276.	.649	.0350	-.10	.06	.0	.5	.50
57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	655.	1609.	1775.	.510	.0350	.00	.01	.0	.2	.81
113	5.150	875.95	.80	631.	1485.	1630.	.506	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.200	7467.7	1052.45	1055.40	1035.34	1.00	.0	7467.7	.0	.0	7467.7

TT = 4.2500 DTH = .0500 ITERR = 1
QU(1) = 7686.96 YU(1) = 1052.52 QU(N) = 505.21 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.52	.24	32060.	2439.	2439.	7.687	.0350	-.70	12.62	31.3	.0	19.42
8	.066	1032.93	3.45	2212.	2287.	2287.	7.627	.0350	-.70	.96	.0	.6	1.53
15	.131	1030.77	2.64	2860.	3993.	3993.	7.544	.0350	-.70	.77	.0	.5	1.23
22	.467	1017.01	2.91	2601.	3652.	4017.	7.562	.0350	-.50	1.03	.0	.6	1.51
29	.692	1009.11	2.68	2999.	4157.	5439.	8.045	.0350	-.30	.73	.0	.6	.91
36	.942	999.24	2.84	2891.	4690.	6255.	8.209	.0350	-.10	.58	.0	.6	.72
43	1.274	984.31	3.10	2269.	3206.	4289.	7.043	.0350	-.10	.70	.0	.7	.89
50	1.605	969.06	2.45	617.	1241.	1634.	1.508	.0350	-.10	.30	.0	.6	.74

57	1.973	955.45	1.47	349.	1284.	1620.	.513	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	655.	1610.	1776.	.510	.0350	.00	.01	.0	.2	.81
113	5.150	875.95	.80	631.	1485.	1631.	.506	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.250	7687.0	1052.52	1055.40	1035.37	1.00	.0	7687.0	.0	.0	7687.0

TT = 4.3000 DTH = .0500 ITERR = 2

QU(1) = 7952.57 YU(1) = 1052.61 QU(N) = 505.31 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.61	.25	32274.	2446.	2446.	7.953	.0350	-.70	12.71	32.3	.0	19.51
8	.066	1032.95	3.49	2257.	2294.	2294.	7.888	.0350	-.70	.97	.0	.6	1.55
15	.131	1030.78	2.67	2913.	4000.	4000.	7.782	.0350	-.70	.78	.0	.6	1.25
22	.467	1017.00	2.90	2569.	3625.	3987.	7.451	.0350	-.50	1.02	.0	.6	1.50
29	.692	1009.10	2.66	2942.	4130.	5403.	7.820	.0350	-.30	.72	.0	.6	.90
36	.942	999.24	2.84	2896.	4692.	6258.	8.221	.0350	-.10	.58	.0	.6	.72
43	1.274	984.35	3.18	2390.	3261.	4368.	7.596	.0350	-.10	.73	.0	.7	.93
50	1.605	969.43	2.83	1176.	1965.	2494.	3.322	.0350	-.10	.67	.0	.6	1.12
57	1.973	955.45	1.47	349.	1285.	1621.	.514	.0350	.00	.01	.0	.5	.54
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	656.	1610.	1776.	.511	.0350	.00	.01	.0	.2	.81
113	5.150	875.95	.80	631.	1485.	1631.	.506	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	4.300	7952.6	1052.61	1055.40	1035.40	1.00	.0	7952.6	.0	.0	7952.6

TT = 4.3500 DTH = .0500 ITERR = 1

QU(1) = 8192.71 YU(1) = 1052.69 QU(N) = 505.31 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.69	.25	32467.	2452.	2452.	8.193	.0350	-.70	12.79	33.4	.0	19.59
8	.066	1032.97	3.54	2301.	2301.	2301.	8.138	.0350	-.70	.99	.0	.6	1.57

15	.131	1030.79	2.71	2971.	4006.	4006.	8.045	.0350	-.70	.80	.0	.6	1.26
22	.467	1017.00	2.90	2572.	3628.	3991.	7.472	.0350	-.50	1.02	.0	.6	1.50
29	.692	1009.09	2.64	2889.	4106.	5370.	7.621	.0350	-.30	.71	.0	.6	.89
36	.942	999.24	2.82	2872.	4683.	6243.	8.109	.0350	-.10	.57	.0	.6	.71
43	1.274	984.37	3.22	2470.	3297.	4419.	7.957	.0350	-.10	.76	.0	.7	.95
50	1.605	969.71	2.81	1877.	3030.	3655.	5.267	.0350	-.10	.95	.0	.6	1.40
57	1.973	955.46	1.48	353.	1293.	1631.	.523	.0350	.00	.01	.0	.5	.55
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	656.	1611.	1777.	.511	.0350	.00	.01	.0	.2	.81
113	5.150	875.95	.80	631.	1486.	1631.	.507	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.350	8192.7	1052.69	1055.40	1035.43	1.00	.0	8192.7	.0	.0	8192.7

TT = 4.4000 DTH = .0500 ITERR = 1

QU(1) = 8408.96 YU(1) = 1052.76 QU(N) = 505.41 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.76	.26	32642.	2457.	2457.	8.409	.0350	-.70	12.86	34.3	.0	19.66
8	.066	1032.99	3.57	2339.	2307.	2307.	8.360	.0350	-.70	1.01	.0	.6	1.59
15	.131	1030.81	2.74	3023.	4012.	4012.	8.278	.0350	-.70	.81	.0	.6	1.27
22	.467	1017.01	2.92	2608.	3659.	4025.	7.610	.0350	-.50	1.03	.0	.6	1.51
29	.692	1009.08	2.63	2857.	4091.	5349.	7.507	.0350	-.30	.70	.0	.6	.88
36	.942	999.23	2.80	2829.	4666.	6219.	7.925	.0350	-.10	.56	.0	.6	.70
43	1.274	984.38	3.25	2509.	3315.	4444.	8.148	.0350	-.10	.77	.0	.7	.96
50	1.605	969.86	2.81	2365.	3588.	4264.	6.654	.0350	-.10	1.10	.0	.6	1.54
57	1.973	955.48	1.53	384.	1347.	1699.	.586	.0350	.00	.03	.0	.5	.57
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.01	.78	656.	1611.	1777.	.511	.0350	.00	.01	.0	.2	.81
113	5.150	875.95	.80	632.	1486.	1632.	.507	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.400	8409.0	1052.76	1055.40	1035.45	1.00	.0	8409.0	.0	.0	8409.0

TT = 4.4500 DTH = .0500 ITERR = 1

QU(1) = 8603.05 YU(1) = 1052.82 QU(N) = 505.41 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.82	.26	32799.	2462.	2462.	8.603	.0350	-.70	12.93	35.1	.0	19.72
8	.066	1033.00	3.61	2373.	2312.	2312.	8.560	.0350	-.70	1.02	.0	.6	1.60
15	.131	1030.82	2.77	3069.	4017.	4017.	8.486	.0350	-.70	.82	.0	.6	1.28
22	.467	1017.03	2.94	2666.	3709.	4079.	7.829	.0350	-.50	1.05	.0	.6	1.53
29	.692	1009.08	2.63	2855.	4089.	5348.	7.507	.0350	-.30	.70	.0	.6	.88
36	.942	999.22	2.78	2784.	4648.	6192.	7.734	.0350	-.10	.55	.0	.6	.69
43	1.274	984.39	3.25	2516.	3317.	4448.	8.166	.0350	-.10	.77	.0	.7	.97
50	1.605	969.92	2.82	2603.	3832.	4529.	7.355	.0350	-.10	1.17	.0	.6	1.61
57	1.973	955.58	1.73	538.	1595.	2012.	.930	.0350	.00	.14	.0	.5	.67
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	657.	1611.	1778.	.512	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	632.	1486.	1632.	.507	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	615.	1403.	1535.	.505	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.450	8603.1	1052.82	1055.40	1035.47	1.00	.0	8603.1	.0	.0	8603.1

TT = 4.5000 DTH = .0500 ITERR = 1

QU(1) = 8776.34 YU(1) = 1052.88 QU(N) = 505.54 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.88	.27	32939.	2466.	2466.	8.776	.0350	-.70	12.98	35.9	.0	19.78
8	.066	1033.02	3.64	2402.	2317.	2317.	8.738	.0350	-.70	1.04	.0	.6	1.62
15	.131	1030.83	2.79	3109.	4022.	4022.	8.673	.0350	-.70	.83	.0	.6	1.29
22	.467	1017.04	2.96	2733.	3765.	4140.	8.078	.0350	-.50	1.07	.0	.6	1.54
29	.692	1009.09	2.64	2882.	4102.	5365.	7.621	.0350	-.30	.71	.0	.6	.89
36	.942	999.21	2.76	2749.	4634.	6171.	7.592	.0350	-.10	.55	.0	.6	.69
43	1.274	984.38	3.24	2496.	3309.	4436.	8.077	.0350	-.10	.77	.0	.7	.96
50	1.605	969.96	2.84	2731.	3956.	4664.	7.756	.0350	-.10	1.20	.0	.6	1.64
57	1.973	955.81	2.13	961.	2132.	2689.	2.043	.0350	.00	.36	.0	.6	.90
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	657.	1612.	1778.	.512	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	632.	1487.	1632.	.508	.0350	.00	.00	.0	.2	.85
120	5.500	873.88	.82	616.	1404.	1535.	.506	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.500	8776.3	1052.88	1055.40	1035.49	1.00	.0	8776.3	.0	.0	8776.3

TT = 4.5500 DTH = .0500 ITERR = 1
QU(1) = 8929.99 YU(1) = 1052.93 QU(N) = 505.64 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.93	.27	33064.	2470.	2470.	8.930	.0350	-.70	13.03	36.6	.0	19.83
8	.066	1033.03	3.66	2429.	2321.	2321.	8.896	.0350	-.70	1.05	.0	.6	1.63
15	.131	1030.84	2.81	3145.	4026.	4026.	8.839	.0350	-.70	.84	.0	.6	1.30
22	.467	1017.06	2.97	2796.	3817.	4197.	8.313	.0350	-.50	1.08	.0	.6	1.56
29	.692	1009.10	2.67	2932.	4125.	5396.	7.817	.0350	-.30	.72	.0	.6	.90
36	.942	999.21	2.76	2735.	4628.	6163.	7.538	.0350	-.10	.54	.0	.6	.68
43	1.274	984.37	3.22	2462.	3293.	4414.	7.920	.0350	-.10	.76	.0	.7	.95
50	1.605	969.98	2.85	2809.	4030.	4745.	8.008	.0350	-.10	1.22	.0	.6	1.66
57	1.973	956.09	2.48	1656.	2911.	3559.	4.098	.0350	.00	.64	.0	.6	1.18
64	2.361	942.14	1.34	382.	1612.	2029.	.513	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	657.	1612.	1778.	.512	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	633.	1487.	1633.	.508	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	616.	1404.	1535.	.506	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.550	8930.0	1052.93	1055.40	1035.51	1.00	.0	8930.0	.0	.0	8930.0

TT = 4.6000 DTH = .0500 ITERR = 1
QU(1) = 9065.03 YU(1) = 1052.98 QU(N) = 505.83 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.98	.27	33174.	2473.	2473.	9.065	.0350	-.70	13.08	37.2	.0	19.88
8	.066	1033.04	3.69	2452.	2325.	2325.	9.036	.0350	-.70	1.06	.0	.6	1.64
15	.131	1030.84	2.83	3176.	4030.	4030.	8.986	.0350	-.70	.85	.0	.6	1.31
22	.467	1017.08	2.99	2852.	3863.	4246.	8.523	.0350	-.50	1.10	.0	.6	1.58
29	.692	1009.11	2.69	2992.	4153.	5434.	8.054	.0350	-.30	.73	.0	.6	.91
36	.942	999.21	2.76	2747.	4633.	6170.	7.590	.0350	-.10	.55	.0	.6	.69
43	1.274	984.36	3.20	2426.	3277.	4391.	7.758	.0350	-.10	.75	.0	.7	.94
50	1.605	969.98	2.85	2840.	4059.	4777.	8.099	.0350	-.10	1.23	.0	.6	1.67
57	1.973	956.30	2.67	2323.	3541.	4222.	6.211	.0350	.00	.85	.0	.6	1.39
64	2.361	942.14	1.34	382.	1613.	2030.	.514	.0350	.00	.00	.0	.5	.47
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	657.	1612.	1779.	.512	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	633.	1488.	1633.	.509	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	616.	1404.	1535.	.506	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.600	9065.0	1052.98	1055.40	1035.52	1.00	.0	9065.0	.0	.0	9065.0

TT = 4.6500 DTH = .0500 ITERR = 1
QU(1) = 9182.69 YU(1) = 1053.01 QU(N) = 505.93 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1053.01	.28	33270.	2476.	2476.	9.183	.0350	-.70	13.12	37.7	.0	19.91
8	.066	1033.05	3.70	2472.	2328.	2328.	9.157	.0350	-.70	1.07	.0	.6	1.65
15	.131	1030.85	2.85	3203.	4033.	4033.	9.114	.0350	-.70	.86	.0	.6	1.32
22	.467	1017.09	3.00	2901.	3903.	4290.	8.708	.0350	-.50	1.11	.0	.6	1.59
29	.692	1009.13	2.72	3052.	4181.	5472.	8.289	.0350	-.30	.75	.0	.6	.93
36	.942	999.22	2.78	2781.	4647.	6190.	7.739	.0350	-.10	.55	.0	.6	.69
43	1.274	984.35	3.18	2397.	3264.	4372.	7.633	.0350	-.10	.74	.0	.7	.93
50	1.605	969.98	2.85	2835.	4054.	4772.	8.069	.0350	-.10	1.22	.0	.6	1.67
57	1.973	956.39	2.73	2685.	3839.	4537.	7.340	.0350	.00	.95	.0	.6	1.48
64	2.361	942.14	1.35	388.	1625.	2045.	.525	.0350	.00	.01	.0	.5	.48
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.512	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	633.	1488.	1634.	.509	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	616.	1404.	1536.	.506	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.650	9182.7	1053.01	1055.40	1035.53	1.00	.0	9182.7	.0	.0	9182.7

TT = 4.7000 DTH = .0500 ITERR = 1
QU(1) = 9577.69 YU(1) = 1053.04 QU(N) = 506.13 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1053.04	.29	33345.	2478.	2478.	9.578	.0350	-.70	13.15	38.8	.0	19.94
8	.066	1033.07	3.76	2521.	2336.	2336.	9.467	.0350	-.70	1.09	.0	.6	1.67
15	.131	1030.86	2.87	3250.	4038.	4038.	9.341	.0350	-.70	.87	.0	.6	1.33
22	.467	1017.10	3.01	2944.	3938.	4327.	8.874	.0350	-.50	1.12	.0	.6	1.60
29	.692	1009.14	2.74	3107.	4206.	5506.	8.504	.0350	-.30	.76	.0	.6	.94
36	.942	999.23	2.81	2830.	4666.	6219.	7.949	.0350	-.10	.56	.0	.6	.70
43	1.274	984.35	3.18	2386.	3259.	4365.	7.586	.0350	-.10	.73	.0	.7	.93
50	1.605	969.98	2.84	2808.	4028.	4744.	7.961	.0350	-.10	1.22	.0	.6	1.66
57	1.973	956.43	2.76	2820.	3945.	4648.	7.785	.0350	.00	.98	.0	.6	1.52
64	2.361	942.20	1.48	479.	1805.	2272.	.710	.0350	.00	.06	.0	.5	.53
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71

99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.512	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	634.	1488.	1634.	.509	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	616.	1404.	1536.	.506	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .01 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.700	9577.7	1053.04	1051.60	1035.57	1.00	55.0	9577.7	302.5	.0	9275.1

TT = 4.7500 DTH = .0500 ITERR = 1
QU(1) = 13174.85 YU(1) = 1053.03 QU(N) = 506.33 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1053.03	.40	33315.	2477.	2477.	13.175	.0350	-.70	13.13	47.0	.0	19.93
8	.066	1033.24	4.17	2923.	2399.	2399.	12.180	.0350	-.70	1.26	.0	.7	1.84
15	.131	1030.95	3.09	3584.	4076.	4076.	11.066	.0350	-.70	.95	.0	.6	1.41
22	.467	1017.11	3.03	2990.	3974.	4367.	9.051	.0350	-.50	1.13	.0	.6	1.61
29	.692	1009.15	2.76	3156.	4228.	5536.	8.695	.0350	-.30	.77	.0	.6	.95
36	.942	999.24	2.84	2885.	4688.	6251.	8.183	.0350	-.10	.58	.0	.6	.72
43	1.274	984.35	3.19	2395.	3263.	4371.	7.632	.0350	-.10	.74	.0	.7	.93
50	1.605	969.97	2.82	2771.	3993.	4706.	7.826	.0350	-.10	1.21	.0	.6	1.65
57	1.973	956.44	2.78	2873.	3986.	4691.	7.984	.0350	.00	.99	.0	.6	1.53
64	2.361	942.43	1.97	979.	2580.	3247.	1.928	.0350	.00	.29	.0	.6	.76
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.512	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	634.	1489.	1635.	.510	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	616.	1404.	1536.	.506	.0350	.00	.01	.0	.2	.88

FRDM= .95 IIFR= 2 FRM= .02 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	4.750	13174.9	1053.03	1047.80	1035.90	1.00	110.0	13174.9	4237.3	.0	8937.6

TT = 4.8000 DTH = .0500 ITERR = 2
QU(1) = 22447.24 YU(1) = 1052.89 QU(N) = 506.63 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.89	.68	32958.	2467.	2467.	22.447	.0350	-.70	12.99	73.6	.0	19.79
8	.066	1033.67	5.11	3985.	2557.	2557.	20.367	.0350	-.70	1.69	.0	.7	2.27
15	.131	1031.21	3.74	4697.	4199.	4199.	17.555	.0350	-.70	1.22	.0	.6	1.68
22	.467	1017.14	3.06	3097.	4058.	4459.	9.488	.0350	-.50	1.16	.0	.6	1.64
29	.692	1009.16	2.77	3203.	4250.	5565.	8.884	.0350	-.30	.78	.0	.6	.96
36	.942	999.25	2.86	2939.	4709.	6282.	8.410	.0350	-.10	.59	.0	.6	.73
43	1.274	984.36	3.21	2424.	3276.	4389.	7.768	.0350	-.10	.74	.0	.7	.94
50	1.605	969.96	2.82	2735.	3960.	4669.	7.708	.0350	-.10	1.20	.0	.6	1.64

57	1.973	956.45	2.78	2895.	4003.	4709.	8.037	.0350	.00	1.00	.0	.6	1.54
64	2.361	942.72	2.42	1895.	3589.	4518.	4.591	.0350	.00	.58	.0	.6	1.06
71	2.789	926.02	1.87	274.	803.	1101.	.513	.0350	.00	.00	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.512	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	634.	1489.	1635.	.510	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	617.	1405.	1536.	.507	.0350	.00	.01	.0	.2	.88

FRDM= 1.01 IIFR= 2 FRM= .03 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	4.800	22447.2	1052.89	1044.00	1036.68	1.00	165.0	22447.2	14147.6	.0	8299.7

TT = 4.8500 DTH = .0500 ITERR = 2

QU(1) = 37854.38 YU(1) = 1052.49 QU(N) = 506.91 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1052.49	1.18	31983.	2437.	2437.	37.854	.0350	-.70	12.59	124.6	.1	19.39
8	.066	1034.26	6.22	5572.	2842.	2842.	34.659	.0350	-.70	2.28	.0	.8	2.86
15	.131	1031.66	4.69	6600.	4402.	4402.	30.926	.0350	-.70	1.66	.0	.7	2.12
22	.467	1017.24	3.21	3536.	4386.	4815.	11.342	.0350	-.50	1.26	.0	.6	1.74
29	.692	1009.18	2.81	3278.	4283.	5610.	9.201	.0350	-.30	.80	.0	.6	.98
36	.942	999.26	2.89	2988.	4728.	6311.	8.622	.0350	-.10	.60	.0	.6	.74
43	1.274	984.37	3.23	2466.	3295.	4417.	7.966	.0350	-.10	.76	.0	.7	.95
50	1.605	969.95	2.81	2716.	3942.	4649.	7.645	.0350	-.10	1.20	.0	.6	1.64
57	1.973	956.44	2.77	2882.	3993.	4699.	7.997	.0350	.00	1.00	.0	.6	1.53
64	2.361	942.91	2.68	2600.	4053.	5033.	6.978	.0350	.00	.77	.0	.6	1.24
71	2.789	926.02	1.87	274.	804.	1101.	.514	.0350	.00	.01	.0	.6	.68
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	635.	1490.	1636.	.510	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	617.	1405.	1537.	.507	.0350	.00	.01	.0	.2	.88

FRDM= .98 IIFR= 2 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	4.850	37854.4	1052.49	1040.20	1037.52	1.00	220.0	37854.4	30763.7	.0	7090.7

TT = 4.9000 DTH = .0500 ITERR = 2

QU(1) = 58513.40 YU(1) = 1051.70 QU(N) = 507.21 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1051.70	1.95	30076.	2377.	2377.	58.513	.0350	-.70	11.80	199.1	.1	18.60
8	.066	1034.91	7.24	7568.	3255.	3255.	54.778	.0350	-.70	2.93	.0	.8	3.51

15	.131	1032.15	5.75	8807.	4475.	4475.	50.638	.0350	-.70	2.16	.0	.7	2.62
22	.467	1017.55	3.63	5055.	5337.	5837.	18.358	.0350	-.50	1.58	.0	.7	2.05
29	.692	1009.24	2.92	3526.	4408.	5769.	10.291	.0350	-.30	.86	.0	.6	1.04
36	.942	999.28	2.91	3042.	4749.	6342.	8.859	.0350	-.10	.61	.0	.6	.75
43	1.274	984.39	3.26	2517.	3318.	4449.	8.195	.0350	-.10	.77	.0	.7	.97
50	1.605	969.95	2.82	2718.	3943.	4650.	7.661	.0350	-.10	1.20	.0	.6	1.64
57	1.973	956.44	2.76	2858.	3974.	4679.	7.898	.0350	.00	.99	.0	.6	1.53
64	2.361	942.96	2.73	2830.	4172.	5154.	7.735	.0350	.00	.82	.0	.6	1.29
71	2.789	926.02	1.88	279.	810.	1110.	.525	.0350	.00	.01	.0	.6	.69
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	635.	1490.	1636.	.511	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	617.	1405.	1537.	.507	.0350	.00	.01	.0	.2	.88

FRDM= .97 IIFR= 2 FRM= .10 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	4.900	58513.4	1051.70	1036.40	1038.25	1.00	275.0	58513.4	53554.9	.0	4958.5

TT = 4.9500 DTH = .0500 ITERR = 2

QU(1) = 50848.41 YU(1) = 1050.67 QU(N) = 507.60 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1050.67	1.84	27664.	2300.	2300.	50.848	.0350	-.70	10.77	226.0	.1	17.57
8	.066	1034.92	7.12	7600.	3261.	3261.	54.098	.0350	-.70	2.94	.0	.8	3.52
15	.131	1032.28	5.95	9390.	4493.	4493.	55.880	.0350	-.70	2.29	.0	.7	2.75
22	.467	1018.06	4.29	8067.	6631.	7131.	34.571	.0350	-.50	2.08	.0	.7	2.56
29	.692	1009.44	3.28	4463.	4876.	6346.	14.640	.0350	-.30	1.06	.0	.6	1.24
36	.942	999.30	2.97	3151.	4791.	6405.	9.357	.0350	-.10	.63	.0	.6	.77
43	1.274	984.40	3.28	2568.	3341.	4481.	8.429	.0350	-.10	.79	.0	.7	.98
50	1.605	969.96	2.83	2743.	3967.	4677.	7.757	.0350	-.10	1.20	.0	.6	1.64
57	1.973	956.43	2.76	2827.	3951.	4654.	7.793	.0350	.00	.98	.0	.6	1.52
64	2.361	942.97	2.76	2882.	4199.	5181.	7.949	.0350	.00	.84	.0	.6	1.31
71	2.789	926.10	2.04	348.	905.	1240.	.712	.0350	.00	.09	.0	.6	.77
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	635.	1490.	1636.	.511	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	617.	1405.	1537.	.508	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .09 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	4.950	50848.4	1050.67	1036.40	1038.06	1.00	275.0	50848.4	48081.9	.0	2766.6

TT = 5.0000 DTH = .0500 ITERR = 2

QU(1) = 43901.79 YU(1) = 1049.66 QU(N) = 507.87 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1049.66	1.73	25387.	2224.	2224.	43.902	.0350	-.70	9.76	195.8	.1	16.56
8	.066	1034.62	6.66	6646.	3071.	3071.	44.274	.0350	-.70	2.64	.0	.8	3.22
15	.131	1032.07	5.47	8439.	4463.	4463.	46.171	.0350	-.70	2.08	.0	.7	2.54
22	.467	1018.43	4.65	10759.	7604.	8104.	50.013	.0350	-.50	2.46	.0	.7	2.93
29	.692	1009.87	3.94	6783.	5877.	7580.	26.693	.0350	-.30	1.49	.0	.6	1.67
36	.942	999.38	3.16	3530.	4935.	6617.	11.170	.0350	-.10	.71	.0	.7	.85
43	1.274	984.42	3.31	2626.	3366.	4518.	8.697	.0350	-.10	.81	.0	.7	1.00
50	1.605	969.97	2.84	2787.	4009.	4723.	7.922	.0350	-.10	1.21	.0	.6	1.66
57	1.973	956.42	2.75	2804.	3933.	4636.	7.714	.0350	.00	.98	.0	.6	1.52
64	2.361	942.98	2.76	2895.	4206.	5188.	7.980	.0350	.00	.84	.0	.6	1.31
71	2.789	926.46	2.65	749.	1327.	1819.	1.984	.0350	.00	.45	.0	.6	1.13
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	635.	1491.	1637.	.511	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	618.	1406.	1538.	.508	.0350	.00	.01	.0	.2	.88

FRDM= .96 IIFR= 2 FRM= .09 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.000	43901.8	1049.66	1036.40	1037.79	1.00	275.0	43901.8	42953.0	.0	948.8

TT = 5.0500 DTH = .0500 ITERR = 2

QU(1) = 38326.53 YU(1) = 1048.70 QU(N) = 508.25 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1048.70	1.65	23282.	2152.	2152.	38.327	.0350	-.70	8.80	169.9	.1	15.60
8	.066	1034.46	6.43	6148.	2967.	2967.	39.550	.0350	-.70	2.48	.0	.8	3.06
15	.131	1031.92	5.16	7770.	4442.	4442.	40.102	.0350	-.70	1.93	.0	.7	2.39
22	.467	1018.49	4.61	11201.	7752.	8252.	51.678	.0350	-.50	2.52	.0	.7	2.99
29	.692	1010.33	4.46	9687.	6824.	8704.	43.243	.0350	-.30	1.95	.0	.7	2.13
36	.942	999.61	3.68	4731.	5403.	7272.	17.396	.0350	-.10	.94	.0	.7	1.08
43	1.274	984.45	3.35	2744.	3469.	4637.	9.197	.0350	-.10	.84	.0	.7	1.03
50	1.605	969.99	2.86	2846.	4065.	4783.	8.135	.0350	-.10	1.23	.0	.6	1.67
57	1.973	956.42	2.75	2797.	3927.	4629.	7.691	.0350	.00	.98	.0	.6	1.51
64	2.361	942.97	2.75	2885.	4200.	5182.	7.947	.0350	.00	.84	.0	.6	1.31
71	2.789	926.91	3.21	1465.	1857.	2544.	4.705	.0350	.00	.90	.0	.6	1.58
78	3.235	908.74	1.50	342.	925.	1202.	.513	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	636.	1491.	1637.	.511	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	618.	1406.	1538.	.508	.0350	.00	.01	.0	.2	.88

FRDM= .95 IIFR= 2 FRM= .09 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.050	38326.5	1048.70	1036.40	1037.58	1.00	275.0	38326.5	38259.1	.0	67.4

TT = 5.1000 DTH = .0500 ITERR = 2
QU(1) = 33996.56 YU(1) = 1047.79 QU(N) = 508.62 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1047.79	1.59	21349.	2084.	2084.	33.997	.0350	-.70	7.89	149.4	.1	14.69
8	.066	1034.28	6.14	5642.	2858.	2858.	34.631	.0350	-.70	2.30	.0	.8	2.88
15	.131	1031.81	4.92	7281.	4427.	4427.	35.848	.0350	-.70	1.82	.0	.7	2.28
22	.467	1018.35	4.42	10117.	7383.	7883.	44.683	.0350	-.50	2.37	.0	.7	2.85
29	.692	1010.51	4.58	10994.	7098.	8978.	50.385	.0350	-.30	2.13	.0	.6	2.31
36	.942	1000.01	4.35	7052.	6320.	8441.	30.683	.0350	-.10	1.34	.0	.7	1.48
43	1.274	984.54	3.46	3071.	3746.	4959.	10.620	.0350	-.10	.93	.0	.7	1.12
50	1.605	970.00	2.88	2919.	4132.	4856.	8.398	.0350	-.10	1.25	.0	.6	1.69
57	1.973	956.43	2.76	2809.	3937.	4639.	7.740	.0350	.00	.98	.0	.6	1.52
64	2.361	942.97	2.75	2863.	4189.	5171.	7.864	.0350	.00	.83	.0	.6	1.30
71	2.789	927.18	3.37	2006.	2173.	2976.	6.765	.0350	.00	1.17	.0	.6	1.85
78	3.235	908.74	1.50	343.	926.	1204.	.516	.0350	.00	.01	.0	.4	.74
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	636.	1491.	1637.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	618.	1407.	1538.	.509	.0350	.00	.01	.0	.2	.88

FRDM= .96 IIFR= 2 FRM= .09 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.100	33996.6	1047.79	1036.40	1037.38	1.00	275.0	33996.6	33996.6	.0	.0

TT = 5.1500 DTH = .0500 ITERR = 2
QU(1) = 30136.19 YU(1) = 1046.92 QU(N) = 508.91 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1046.92	1.54	19579.	2019.	2019.	30.136	.0350	-.70	7.03	132.5	.1	13.82
8	.066	1034.13	5.91	5228.	2765.	2765.	30.882	.0350	-.70	2.16	.0	.8	2.73
15	.131	1031.70	4.66	6769.	4411.	4411.	31.549	.0350	-.70	1.70	.0	.7	2.16
22	.467	1018.20	4.27	9046.	7001.	7501.	38.599	.0350	-.50	2.22	.0	.7	2.70
29	.692	1010.45	4.41	10549.	7006.	8886.	46.568	.0350	-.30	2.07	.0	.6	2.25
36	.942	1000.34	4.76	9279.	7089.	9422.	44.169	.0350	-.10	1.67	.0	.7	1.81
43	1.274	984.78	3.75	4056.	4477.	5808.	15.227	.0350	-.10	1.17	.0	.7	1.36
50	1.605	970.03	2.91	3029.	4231.	4965.	8.811	.0350	-.10	1.27	.0	.6	1.71
57	1.973	956.43	2.77	2841.	3961.	4665.	7.862	.0350	.00	.99	.0	.6	1.52
64	2.361	942.96	2.74	2843.	4179.	5161.	7.787	.0350	.00	.83	.0	.6	1.30
71	2.789	927.29	3.27	2257.	2481.	3315.	7.383	.0350	.00	1.28	.0	.6	1.96
78	3.235	908.76	1.56	361.	950.	1235.	.563	.0350	.00	.03	.0	.4	.76
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	636.	1491.	1637.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	618.	1407.	1539.	.509	.0350	.00	.01	.0	.2	.88

FRDM= .96 IIFR= 2 FRM= .09 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.150	30136.2	1046.92	1036.40	1037.19	1.00	275.0	30136.2	30136.2	.0	.0

TT = 5.2000 DTH = .0500 ITERR = 2
QU(1) = 26696.63 YU(1) = 1046.12 QU(N) = 509.28 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1046.12	1.48	17983.	1959.	1959.	26.697	.0350	-.70	6.22	117.4	.1	13.02
8	.066	1033.99	5.65	4837.	2677.	2677.	27.341	.0350	-.70	2.01	.0	.7	2.59
15	.131	1031.60	4.46	6329.	4374.	4374.	28.209	.0350	-.70	1.60	.0	.7	2.06
22	.467	1018.09	4.16	8324.	6730.	7230.	34.614	.0350	-.50	2.12	.0	.7	2.59
29	.692	1010.32	4.21	9628.	6811.	8691.	40.532	.0350	-.30	1.94	.0	.6	2.12
36	.942	1000.44	4.79	9991.	7318.	9713.	47.886	.0350	-.10	1.77	.0	.7	1.91
43	1.274	985.19	4.23	6126.	5717.	7246.	25.909	.0350	-.10	1.58	.0	.7	1.77
50	1.605	970.09	3.00	3298.	4466.	5221.	9.880	.0350	-.10	1.33	.0	.6	1.78
57	1.973	956.45	2.78	2894.	4002.	4708.	8.055	.0350	.00	1.00	.0	.6	1.54
64	2.361	942.96	2.73	2829.	4172.	5154.	7.738	.0350	.00	.82	.0	.6	1.29
71	2.789	927.35	3.20	2403.	2699.	3543.	7.689	.0350	.00	1.33	.0	.6	2.01
78	3.235	908.93	1.99	535.	1156.	1503.	1.064	.0350	.00	.19	.0	.5	.93
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	636.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	619.	1407.	1539.	.509	.0350	.00	.01	.0	.2	.88

FRDM= .97 IIFR= 2 FRM= .09 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.200	26696.6	1046.12	1036.40	1037.00	1.00	275.0	26696.6	26696.6	.0	.0

TT = 5.2500 DTH = .0500 ITERR = 2
QU(1) = 23646.79 YU(1) = 1045.38 QU(N) = 509.55 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1045.38	1.43	16549.	1903.	1903.	23.647	.0350	-.70	5.48	104.0	.1	12.28
8	.066	1033.86	5.40	4486.	2628.	2628.	24.206	.0350	-.70	1.88	.0	.7	2.46
15	.131	1031.49	4.24	5876.	4326.	4326.	24.931	.0350	-.70	1.50	.0	.6	1.96
22	.467	1018.00	4.04	7678.	6478.	6978.	31.043	.0350	-.50	2.02	.0	.7	2.50
29	.692	1010.20	4.06	8839.	6640.	8520.	35.866	.0350	-.30	1.82	.0	.6	2.00
36	.942	1000.36	4.65	9456.	7147.	9495.	43.928	.0350	-.10	1.70	.0	.7	1.84
43	1.274	985.57	4.66	8477.	6689.	8390.	39.542	.0350	-.10	1.95	.0	.7	2.14
50	1.605	970.26	3.24	4129.	5123.	5937.	13.372	.0350	-.10	1.51	.0	.6	1.95
57	1.973	956.47	2.81	2975.	4063.	4773.	8.360	.0350	.00	1.02	.0	.6	1.56
64	2.361	942.96	2.74	2829.	4172.	5154.	7.746	.0350	.00	.82	.0	.6	1.29
71	2.789	927.38	3.15	2489.	2819.	3669.	7.842	.0350	.00	1.37	.0	.6	2.04
78	3.235	909.32	2.79	1086.	1647.	2142.	3.024	.0350	.00	.58	.0	.6	1.32
85	3.675	892.87	1.21	424.	1137.	1396.	.513	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71

99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	636.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	619.	1408.	1539.	.510	.0350	.00	.01	.0	.2	.88

FRDM= .98 IIFR= 2 FRM= .09 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.250	23646.8	1045.38	1036.40	1036.81	1.00	275.0	23646.8	23646.8	.0	.0

TT = 5.3000 DTH = .0500 ITERR = 2
QU(1) = 20967.21 YU(1) = 1044.70 QU(N) = 509.84 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1044.70	1.37	15270.	1852.	1852.	20.967	.0350	-.70	4.80	92.2	.1	11.60
8	.066	1033.74	5.15	4167.	2583.	2583.	21.471	.0350	-.70	1.76	.0	.7	2.34
15	.131	1031.40	4.05	5469.	4283.	4283.	22.148	.0350	-.70	1.40	.0	.6	1.86
22	.467	1017.90	3.93	7061.	6229.	6729.	27.747	.0350	-.50	1.92	.0	.7	2.40
29	.692	1010.10	3.95	8191.	6409.	8235.	32.342	.0350	-.30	1.72	.0	.6	1.90
36	.942	1000.25	4.49	8650.	6881.	9156.	38.816	.0350	-.10	1.58	.0	.7	1.72
43	1.274	985.72	4.81	9547.	6979.	8743.	45.902	.0350	-.10	2.11	.0	.7	2.30
50	1.605	970.61	3.80	6074.	6110.	7179.	23.057	.0350	-.10	1.85	.0	.7	2.29
57	1.973	956.51	2.87	3152.	4193.	4910.	9.046	.0350	.00	1.06	.0	.6	1.60
64	2.361	942.97	2.75	2848.	4181.	5163.	7.823	.0350	.00	.83	.0	.6	1.30
71	2.789	927.39	3.12	2521.	2863.	3715.	7.862	.0350	.00	1.38	.0	.6	2.06
78	3.235	909.66	3.27	1725.	2077.	2700.	5.637	.0350	.00	.93	.0	.6	1.66
85	3.675	892.87	1.21	424.	1138.	1396.	.514	.0350	.00	.01	.0	.3	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	636.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	619.	1408.	1540.	.510	.0350	.00	.01	.0	.2	.88

FRDM= .99 IIFR= 2 FRM= .08 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.300	20967.2	1044.70	1036.40	1036.61	1.00	275.0	20967.2	20967.2	.0	.0

TT = 5.3500 DTH = .0500 ITERR = 2
QU(1) = 18640.05 YU(1) = 1044.08 QU(N) = 510.12 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1044.08	1.32	14141.	1806.	1806.	18.640	.0350	-.70	4.18	81.8	.1	10.98
8	.066	1033.62	4.92	3873.	2540.	2540.	19.053	.0350	-.70	1.64	.0	.7	2.22
15	.131	1031.31	3.86	5095.	4242.	4242.	19.685	.0350	-.70	1.31	.0	.6	1.78
22	.467	1017.81	3.82	6506.	5995.	6495.	24.866	.0350	-.50	1.83	.0	.6	2.31
29	.692	1010.01	3.84	7595.	6190.	7965.	29.167	.0350	-.30	1.63	.0	.6	1.81
36	.942	1000.15	4.36	7970.	6648.	8859.	34.728	.0350	-.10	1.48	.0	.7	1.62
43	1.274	985.68	4.70	9274.	6907.	8655.	43.579	.0350	-.10	2.07	.0	.7	2.26
50	1.605	970.98	4.29	8519.	7108.	8476.	36.506	.0350	-.10	2.22	.0	.7	2.66

57	1.973	956.63	3.05	3693.	4570.	5307.	11.264	.0350	.00	1.19	.0	.6	1.72
64	2.361	942.98	2.77	2891.	4203.	5185.	7.999	.0350	.00	.84	.0	.6	1.31
71	2.789	927.39	3.11	2520.	2861.	3713.	7.837	.0350	.00	1.38	.0	.6	2.05
78	3.235	909.82	3.42	2062.	2271.	2952.	7.046	.0350	.00	1.08	.0	.6	1.82
85	3.675	892.87	1.22	429.	1144.	1404.	.523	.0350	.00	.01	.0	.4	.75
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	620.	1408.	1540.	.510	.0350	.00	.01	.0	.2	.88

FRDM= 1.00 IIFR= 2 FRM= .08 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.350	18640.1	1044.08	1036.40	1036.41	1.00	275.0	18640.1	18640.1	.0	.0

TT = 5.4000 DTH = .0500 ITERR = 2
QU(1) = 16634.94 YU(1) = 1043.53 QU(N) = 510.40 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1043.53	1.26	13153.	1764.	1764.	16.635	.0350	-.70	3.63	72.9	.1	10.43
8	.066	1033.52	4.71	3612.	2502.	2502.	17.005	.0350	-.70	1.54	.0	.7	2.12
15	.131	1031.23	3.69	4755.	4206.	4206.	17.550	.0350	-.70	1.23	.0	.6	1.69
22	.467	1017.72	3.72	5997.	5773.	6273.	22.293	.0350	-.50	1.75	.0	.6	2.22
29	.692	1009.91	3.73	7037.	5977.	7703.	26.256	.0350	-.30	1.53	.0	.6	1.71
36	.942	1000.06	4.24	7407.	6449.	8605.	31.400	.0350	-.10	1.39	.0	.7	1.53
43	1.274	985.59	4.55	8604.	6725.	8433.	39.112	.0350	-.10	1.97	.0	.7	2.16
50	1.605	971.17	4.43	9894.	7613.	9131.	43.864	.0350	-.10	2.41	.0	.7	2.85
57	1.973	956.93	3.45	5169.	5450.	6241.	17.835	.0350	.00	1.48	.0	.6	2.02
64	2.361	943.00	2.81	2985.	4251.	5234.	8.389	.0350	.00	.86	.0	.6	1.33
71	2.789	927.38	3.11	2506.	2843.	3694.	7.803	.0350	.00	1.37	.0	.6	2.05
78	3.235	909.87	3.44	2176.	2332.	3032.	7.479	.0350	.00	1.13	.0	.6	1.87
85	3.675	892.93	1.33	492.	1225.	1503.	.652	.0350	.00	.06	.0	.4	.80
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	620.	1408.	1540.	.510	.0350	.00	.01	.0	.2	.88

FRDM= .99 IIFR= 2 FRM= .08 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.400	16634.9	1043.53	1036.40	1036.22	1.00	275.0	16634.9	16634.9	.0	.0

TT = 5.4500 DTH = .0500 ITERR = 2
QU(1) = 14923.01 YU(1) = 1043.03 QU(N) = 510.67 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1043.03	1.21	12295.	1728.	1728.	14.923	.0350	-.70	3.14	65.2	.1	9.93
8	.066	1033.42	4.51	3377.	2467.	2467.	15.231	.0350	-.70	1.44	.0	.7	2.02

15	.131	1031.16	3.53	4453.	4172.	4172.	15.735	.0350	-.70	1.16	.0	.6	1.62
22	.467	1017.64	3.62	5536.	5563.	6063.	20.024	.0350	-.50	1.66	.0	.6	2.14
29	.692	1009.83	3.63	6524.	5775.	7453.	23.669	.0350	-.30	1.45	.0	.6	1.63
36	.942	999.98	4.12	6899.	6264.	8369.	28.453	.0350	-.10	1.32	.0	.7	1.45
43	1.274	985.49	4.41	7998.	6556.	8227.	35.280	.0350	-.10	1.88	.0	.7	2.07
50	1.605	971.16	4.36	9852.	7598.	9112.	42.905	.0350	-.10	2.40	.0	.7	2.85
57	1.973	957.31	3.97	7399.	6288.	7276.	29.363	.0350	.00	1.86	.0	.6	2.40
64	2.361	943.06	2.93	3256.	4386.	5370.	9.553	.0350	.00	.92	.0	.6	1.39
71	2.789	927.38	3.12	2498.	2832.	3682.	7.800	.0350	.00	1.37	.0	.6	2.05
78	3.235	909.89	3.41	2244.	2369.	3079.	7.652	.0350	.00	1.16	.0	.6	1.89
85	3.675	893.21	1.79	903.	1660.	2037.	1.612	.0350	.00	.35	.0	.4	1.09
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	620.	1409.	1541.	.511	.0350	.00	.01	.0	.2	.88

FRDM= .97 IIFR= 2 FRM= .08 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.450	14923.0	1043.03	1036.40	1036.07	1.00	275.0	14923.0	14923.0	.0	.0

TT = 5.5000 DTH = .0500 ITERR = 2

QU(1) = 13474.74 YU(1) = 1042.60 QU(N) = 510.95 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1042.60	1.17	11557.	1695.	1695.	13.475	.0350	-.70	2.71	58.7	.1	9.50
8	.066	1033.34	4.33	3171.	2436.	2436.	13.748	.0350	-.70	1.36	.0	.7	1.94
15	.131	1031.09	3.39	4183.	4143.	4143.	14.177	.0350	-.70	1.10	.0	.6	1.56
22	.467	1017.57	3.52	5122.	5369.	5869.	18.046	.0350	-.50	1.59	.0	.6	2.07
29	.692	1009.74	3.53	6056.	5583.	7217.	21.361	.0350	-.30	1.36	.0	.6	1.54
36	.942	999.90	4.01	6425.	6086.	8143.	25.772	.0350	-.10	1.24	.0	.7	1.38
43	1.274	985.41	4.29	7477.	6398.	8036.	32.076	.0350	-.10	1.80	.0	.7	1.99
50	1.605	971.08	4.23	9216.	7368.	8814.	38.957	.0350	-.10	2.32	.0	.7	2.76
57	1.973	957.58	4.25	9210.	6893.	8024.	39.100	.0350	.00	2.14	.0	.6	2.67
64	2.361	943.24	3.26	4077.	4770.	5758.	13.309	.0350	.00	1.10	.0	.6	1.57
71	2.789	927.39	3.13	2515.	2854.	3706.	7.867	.0350	.00	1.37	.0	.6	2.05
78	3.235	909.92	3.36	2302.	2399.	3118.	7.745	.0350	.00	1.18	.0	.6	1.92
85	3.675	893.65	2.27	1764.	2320.	2847.	4.004	.0350	.00	.78	.0	.5	1.52
92	4.060	886.71	1.16	443.	1251.	1475.	.513	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	620.	1409.	1541.	.511	.0350	.00	.01	.0	.2	.88

FRDM= .95 IIFR= 2 FRM= .08 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.500	13474.7	1042.60	1036.40	1035.93	1.00	275.0	13474.7	13474.7	.0	.0

TT = 5.5500 DTH = .0500 ITERR = 2

QU(1) = 12263.25 YU(1) = 1042.23 QU(N) = 511.22 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1042.23	1.12	10930.	1667.	1667.	12.263	.0350	-.70	2.33	53.2	.1	9.13
8	.066	1033.27	4.18	2991.	2409.	2409.	12.493	.0350	-.70	1.29	.0	.7	1.87
15	.131	1031.03	3.26	3948.	4117.	4117.	12.875	.0350	-.70	1.04	.0	.6	1.50
22	.467	1017.49	3.43	4744.	5181.	5680.	16.292	.0350	-.50	1.52	.0	.6	1.99
29	.692	1009.67	3.43	5629.	5403.	6995.	19.314	.0350	-.30	1.29	.0	.6	1.47
36	.942	999.83	3.90	5986.	5917.	7926.	23.350	.0350	-.10	1.17	.0	.7	1.30
43	1.274	985.33	4.19	6975.	6153.	7752.	29.254	.0350	-.10	1.72	.0	.7	1.91
50	1.605	970.99	4.11	8566.	7126.	8499.	35.227	.0350	-.10	2.23	.0	.7	2.67
57	1.973	957.67	4.27	9837.	7091.	8269.	42.040	.0350	.00	2.22	.0	.6	2.76
64	2.361	943.58	3.81	5845.	5508.	6504.	22.259	.0350	.00	1.45	.0	.7	1.92
71	2.789	927.41	3.13	2595.	2960.	3816.	8.130	.0350	.00	1.40	.0	.6	2.08
78	3.235	909.93	3.33	2338.	2418.	3143.	7.796	.0350	.00	1.20	.0	.6	1.93
85	3.675	893.96	2.43	2557.	2793.	3428.	6.207	.0350	.00	1.09	.0	.4	1.83
92	4.060	886.71	1.16	443.	1252.	1476.	.514	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	621.	1409.	1541.	.511	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 2 FRM= .08 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.550	12263.2	1042.23	1036.40	1035.83	1.00	275.0	12263.2	12263.2	.0	.0

TT = 5.6000 DTH = .0500 ITERR = 1

QU(1) = 11267.23 YU(1) = 1041.91 QU(N) = 511.39 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1041.91	1.08	10406.	1644.	1644.	11.267	.0350	-.70	2.02	48.6	.1	8.81
8	.066	1033.20	4.04	2838.	2386.	2386.	11.463	.0350	-.70	1.22	.0	.7	1.80
15	.131	1030.98	3.15	3744.	4094.	4094.	11.785	.0350	-.70	.99	.0	.6	1.45
22	.467	1017.43	3.36	4399.	4967.	5446.	14.777	.0350	-.50	1.45	.0	.6	1.93
29	.692	1009.59	3.34	5242.	5234.	6787.	17.507	.0350	-.30	1.21	.0	.6	1.39
36	.942	999.76	3.80	5583.	5757.	7723.	21.191	.0350	-.10	1.10	.0	.7	1.24
43	1.274	985.25	4.11	6489.	5907.	7467.	26.659	.0350	-.10	1.64	.0	.7	1.83
50	1.605	970.91	4.01	8010.	6912.	8221.	32.130	.0350	-.10	2.15	.0	.7	2.59
57	1.973	957.63	4.19	9552.	7002.	8158.	39.988	.0350	.00	2.18	.0	.6	2.72
64	2.361	943.94	4.29	7917.	6127.	7141.	33.978	.0350	.00	1.80	.0	.7	2.27
71	2.789	927.51	3.16	2885.	3317.	4190.	9.120	.0350	.00	1.49	.0	.6	2.17
78	3.235	909.94	3.32	2354.	2426.	3154.	7.815	.0350	.00	1.21	.0	.6	1.94
85	3.675	894.10	2.42	2968.	3013.	3689.	7.196	.0350	.00	1.23	.0	.4	1.97
92	4.060	886.71	1.17	450.	1261.	1487.	.527	.0350	.00	.01	.0	.3	.71
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	621.	1409.	1542.	.511	.0350	.00	.01	.0	.2	.88

FRDM= .95 IIFR= 83 FRM= .08 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	5.600	11267.2	1041.91	1036.40	1035.74	1.00	275.0	11267.2	11267.2	.0	.0

TT = 5.6500 DTH = .0500 ITERR = 2
QU(1) = 10468.87 YU(1) = 1041.65 QU(N) = 511.57 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
1	.000	1041.65	1.05	9980.	1624.	1624.	10.469	.0350	-.70	1.76	44.9	.1	8.55
8	.066	1033.15	3.92	2710.	2366.	2366.	10.628	.0350	-.70	1.17	.0	.6	1.75
15	.131	1030.94	3.05	3572.	4074.	4074.	10.897	.0350	-.70	.95	.0	.6	1.41
22	.467	1017.36	3.29	4093.	4769.	5231.	13.462	.0350	-.50	1.39	.0	.6	1.86
29	.692	1009.53	3.25	4893.	5077.	6593.	15.918	.0350	-.30	1.15	.0	.6	1.33
36	.942	999.70	3.69	5216.	5607.	7532.	19.265	.0350	-.10	1.03	.0	.7	1.17
43	1.274	985.17	4.03	6037.	5669.	7190.	24.309	.0350	-.10	1.56	.0	.7	1.75
50	1.605	970.83	3.92	7518.	6718.	7968.	29.449	.0350	-.10	2.08	.0	.7	2.52
57	1.973	957.55	4.08	8961.	6813.	7925.	36.537	.0350	.00	2.10	.0	.6	2.64
64	2.361	944.11	4.47	8981.	6344.	7373.	40.180	.0350	.00	1.97	.0	.7	2.44
71	2.789	927.76	3.30	3843.	4288.	5206.	12.702	.0350	.00	1.75	.0	.6	2.42
78	3.235	909.94	3.32	2362.	2430.	3159.	7.835	.0350	.00	1.21	.0	.6	1.94
85	3.675	894.15	2.41	3137.	3104.	3785.	7.554	.0350	.00	1.29	.0	.4	2.03
92	4.060	886.77	1.29	527.	1365.	1610.	.679	.0350	.00	.07	.0	.4	.77
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	621.	1410.	1542.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .97 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.650	10468.9	1041.65	1036.40	1035.66	1.00	275.0	10468.9	10468.9	.0	.0

TT = 5.7000 DTH = .0500 ITERR = 2
QU(1) = 9836.40 YU(1) = 1041.44 QU(N) = 511.66 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
1	.000	1041.44	1.02	9638.	1608.	1608.	9.836	.0350	-.70	1.54	42.0	.1	8.34
8	.066	1033.10	3.82	2606.	2349.	2349.	9.966	.0350	-.70	1.12	.0	.6	1.70
15	.131	1030.91	2.97	3429.	4058.	4058.	10.184	.0350	-.70	.91	.0	.6	1.37
22	.467	1017.31	3.23	3827.	4590.	5037.	12.345	.0350	-.50	1.33	.0	.6	1.81
29	.692	1009.46	3.17	4579.	4931.	6414.	14.522	.0350	-.30	1.08	.0	.6	1.26
36	.942	999.64	3.60	4881.	5467.	7353.	17.554	.0350	-.10	.97	.0	.7	1.11
43	1.274	985.10	3.95	5622.	5441.	6926.	22.180	.0350	-.10	1.49	.0	.7	1.68
50	1.605	970.77	3.82	7067.	6533.	7729.	27.028	.0350	-.10	2.01	.0	.6	2.45
57	1.973	957.46	3.98	8379.	6622.	7689.	33.326	.0350	.00	2.01	.0	.6	2.55
64	2.361	944.11	4.43	8997.	6347.	7377.	39.893	.0350	.00	1.97	.0	.7	2.45
71	2.789	928.19	3.64	6046.	5948.	6942.	22.007	.0350	.00	2.18	.0	.6	2.86
78	3.235	909.95	3.33	2388.	2443.	3176.	7.960	.0350	.00	1.22	.0	.6	1.95
85	3.675	894.18	2.40	3209.	3142.	3825.	7.706	.0350	.00	1.31	.0	.4	2.05
92	4.060	887.03	1.69	932.	1814.	2140.	1.574	.0350	.00	.33	.0	.4	1.03
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	621.	1410.	1542.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .97 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.700	9836.4	1041.44	1036.40	1035.60	1.00	275.0	9836.4	9836.4	.0	.0

TT = 5.7500 DTH = .0500 ITERR = 2
QU(1) = 9331.20 YU(1) = 1041.27 QU(N) = 511.87 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1041.27	1.00	9362.	1595.	1595.	9.331	.0350	-.70	1.37	39.6	.1	8.17
8	.066	1033.07	3.74	2521.	2336.	2336.	9.437	.0350	-.70	1.09	.0	.6	1.67
15	.131	1030.88	2.90	3312.	4045.	4045.	9.616	.0350	-.70	.88	.0	.6	1.35
22	.467	1017.26	3.17	3599.	4431.	4863.	11.412	.0350	-.50	1.28	.0	.6	1.76
29	.692	1009.41	3.10	4299.	4798.	6249.	13.306	.0350	-.30	1.03	.0	.6	1.21
36	.942	999.58	3.50	4577.	5337.	7187.	16.034	.0350	-.10	.91	.0	.7	1.05
43	1.274	985.03	3.87	5237.	5221.	6670.	20.273	.0350	-.10	1.41	.0	.7	1.61
50	1.605	970.70	3.73	6645.	6357.	7500.	24.818	.0350	-.10	1.94	.0	.6	2.39
57	1.973	957.38	3.89	7867.	6450.	7476.	30.564	.0350	.00	1.93	.0	.6	2.47
64	2.361	944.05	4.33	8606.	6268.	7292.	37.238	.0350	.00	1.91	.0	.7	2.38
71	2.789	928.56	4.14	8369.	6557.	7796.	34.685	.0350	.00	2.55	.0	.6	3.22
78	3.235	910.00	3.42	2506.	2505.	3256.	8.569	.0350	.00	1.27	.0	.6	2.00
85	3.675	894.19	2.40	3242.	3159.	3844.	7.783	.0350	.00	1.32	.0	.4	2.06
92	4.060	887.39	2.09	1700.	2451.	2890.	3.556	.0350	.00	.69	.0	.4	1.39
99	4.445	880.43	1.53	336.	1218.	1362.	.513	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.513	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	621.	1410.	1542.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .98 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.750	9331.2	1041.27	1036.40	1035.55	1.00	275.0	9331.2	9331.2	.0	.0

TT = 5.8000 DTH = .0500 ITERR = 2
QU(1) = 8913.67 YU(1) = 1041.12 QU(N) = 511.94 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1041.12	.98	9131.	1584.	1584.	8.914	.0350	-.70	1.23	37.7	.1	8.02
8	.066	1033.04	3.68	2449.	2325.	2325.	9.004	.0350	-.70	1.06	.0	.6	1.64
15	.131	1030.85	2.85	3216.	4034.	4034.	9.154	.0350	-.70	.86	.0	.6	1.32
22	.467	1017.21	3.12	3405.	4291.	4711.	10.638	.0350	-.50	1.23	.0	.6	1.71
29	.692	1009.35	3.03	4052.	4677.	6100.	12.264	.0350	-.30	.97	.0	.6	1.15
36	.942	999.53	3.41	4299.	5215.	7032.	14.682	.0350	-.10	.86	.0	.7	1.00
43	1.274	984.96	3.80	4884.	5010.	6426.	18.561	.0350	-.10	1.35	.0	.7	1.54
50	1.605	970.64	3.65	6253.	6188.	7281.	22.811	.0350	-.10	1.88	.0	.6	2.32
57	1.973	957.31	3.80	7407.	6290.	7279.	28.129	.0350	.00	1.86	.0	.6	2.40
64	2.361	943.97	4.21	8127.	6170.	7187.	34.193	.0350	.00	1.83	.0	.6	2.31
71	2.789	928.69	4.25	9279.	6752.	8088.	39.464	.0350	.00	2.68	.0	.6	3.36
78	3.235	910.19	3.63	3026.	2940.	3714.	10.993	.0350	.00	1.46	.0	.6	2.19
85	3.675	894.19	2.40	3268.	3173.	3858.	7.858	.0350	.00	1.33	.0	.4	2.07
92	4.060	887.66	2.27	2425.	2878.	3370.	5.514	.0350	.00	.96	.0	.4	1.66

99	4.445	880.43	1.53	337.	1219.	1364.	.514	.0350	.00	.00	.0	.5	.55
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	621.	1410.	1542.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .97 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.800	8913.7	1041.12	1036.40	1035.51	1.00	275.0	8913.7	8913.7	.0	.0

TT = 5.8500 DTH = .0500 ITERR = 2
QU(1) = 8553.39 YU(1) = 1041.00 QU(N) = 512.04 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1041.00	.96	8931.	1575.	1575.	8.553	.0350	-.70	1.10	36.1	.1	7.90
8	.066	1033.01	3.62	2388.	2315.	2315.	8.633	.0350	-.70	1.03	.0	.6	1.61
15	.131	1030.83	2.80	3133.	4025.	4025.	8.765	.0350	-.70	.84	.0	.6	1.30
22	.467	1017.17	3.08	3245.	4171.	4582.	10.006	.0350	-.50	1.20	.0	.6	1.67
29	.692	1009.31	2.96	3839.	4570.	5968.	11.381	.0350	-.30	.93	.0	.6	1.11
36	.942	999.48	3.33	4056.	5127.	6903.	13.496	.0350	-.10	.82	.0	.7	.95
43	1.274	984.89	3.73	4563.	4810.	6194.	17.028	.0350	-.10	1.28	.0	.7	1.47
50	1.605	970.58	3.56	5890.	6028.	7072.	20.991	.0350	-.10	1.82	.0	.6	2.26
57	1.973	957.24	3.71	6982.	6140.	7093.	25.919	.0350	.00	1.79	.0	.6	2.33
64	2.361	943.90	4.09	7676.	6077.	7087.	31.421	.0350	.00	1.76	.0	.6	2.23
71	2.789	928.67	4.17	9108.	6716.	8034.	37.978	.0350	.00	2.66	.0	.6	3.34
78	3.235	910.66	4.12	4637.	3997.	4829.	19.116	.0350	.00	1.92	.0	.7	2.66
85	3.675	894.21	2.43	3328.	3204.	3891.	8.085	.0350	.00	1.35	.0	.4	2.09
92	4.060	887.81	2.33	2863.	3089.	3598.	6.680	.0350	.00	1.10	.0	.4	1.81
99	4.445	880.43	1.53	342.	1229.	1375.	.524	.0350	.00	.01	.0	.5	.56
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	622.	1410.	1542.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .96 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	5.850	8553.4	1041.00	1036.40	1035.47	1.00	275.0	8553.4	8553.4	.0	.0

TT = 5.9000 DTH = .0500 ITERR = 1
QU(1) = 8237.03 YU(1) = 1040.88 QU(N) = 512.12 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.88	.94	8753.	1566.	1566.	8.237	.0350	-.70	.99	34.7	.1	7.78
8	.066	1032.99	3.56	2333.	2306.	2306.	8.309	.0350	-.70	1.01	.0	.6	1.59
15	.131	1030.82	2.75	3060.	4016.	4016.	8.427	.0350	-.70	.82	.0	.6	1.28
22	.467	1017.14	3.05	3112.	4070.	4471.	9.488	.0350	-.50	1.16	.0	.6	1.64
29	.692	1009.27	2.91	3656.	4476.	5853.	10.641	.0350	-.30	.89	.0	.6	1.07
36	.942	999.44	3.24	3845.	5051.	6790.	12.477	.0350	-.10	.77	.0	.7	.91
43	1.274	984.83	3.67	4268.	4619.	5972.	15.657	.0350	-.10	1.22	.0	.7	1.41
50	1.605	970.52	3.48	5551.	5874.	6872.	19.326	.0350	-.10	1.76	.0	.6	2.21

57	1.973	957.18	3.63	6586.	5996.	6916.	23.903	.0350	.00	1.73	.0	.6	2.27
64	2.361	943.83	3.99	7270.	5991.	6996.	28.991	.0350	.00	1.69	.0	.6	2.17
71	2.789	928.61	4.07	8681.	6625.	7897.	35.367	.0350	.00	2.59	.0	.6	3.27
78	3.235	911.15	4.53	6867.	5111.	6004.	31.138	.0350	.00	2.41	.0	.7	3.15
85	3.675	894.28	2.53	3558.	3319.	4014.	9.001	.0350	.00	1.42	.0	.4	2.16
92	4.060	887.88	2.36	3092.	3194.	3711.	7.289	.0350	.00	1.18	.0	.4	1.88
99	4.445	880.48	1.57	407.	1339.	1498.	.640	.0350	.00	.06	.0	.5	.61
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	622.	1410.	1543.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	5.900	8237.0	1040.88	1036.40	1035.43	1.00	275.0	8237.0	8237.0	.0	.0

TT = 5.9500 DTH = .0500 ITERR = 1
QU(1) = 7954.66 YU(1) = 1040.78 QU(N) = 512.21 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.78	.93	8594.	1559.	1559.	7.955	.0350	-.70	.88	33.5	.1	7.68
8	.066	1032.96	3.51	2283.	2298.	2298.	8.019	.0350	-.70	.99	.0	.6	1.56
15	.131	1030.80	2.71	2993.	4009.	4009.	8.127	.0350	-.70	.80	.0	.6	1.27
22	.467	1017.11	3.02	3000.	3982.	4376.	9.058	.0350	-.50	1.14	.0	.6	1.61
29	.692	1009.23	2.86	3502.	4396.	5753.	10.024	.0350	-.30	.85	.0	.6	1.03
36	.942	999.40	3.17	3660.	4983.	6689.	11.600	.0350	-.10	.74	.0	.7	.88
43	1.274	984.77	3.61	3998.	4437.	5761.	14.432	.0350	-.10	1.16	.0	.7	1.35
50	1.605	970.47	3.40	5241.	5729.	6685.	17.841	.0350	-.10	1.71	.0	.6	2.15
57	1.973	957.11	3.55	6217.	5859.	6746.	22.060	.0350	.00	1.67	.0	.6	2.20
64	2.361	943.77	3.89	6900.	5904.	6904.	26.831	.0350	.00	1.63	.0	.6	2.10
71	2.789	928.54	3.96	8235.	6528.	7752.	32.647	.0350	.00	2.53	.0	.6	3.20
78	3.235	911.38	4.62	8112.	5638.	6560.	37.469	.0350	.00	2.65	.0	.7	3.38
85	3.675	894.51	2.82	4337.	3685.	4401.	12.234	.0350	.00	1.64	.0	.5	2.38
92	4.060	887.92	2.37	3227.	3255.	3776.	7.661	.0350	.00	1.22	.0	.4	1.92
99	4.445	880.73	1.80	799.	1878.	2101.	1.440	.0350	.00	.30	.0	.5	.85
106	4.800	878.02	.78	658.	1613.	1779.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	622.	1410.	1543.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .92 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	5.950	7954.7	1040.78	1036.40	1035.40	1.00	275.0	7954.7	7954.7	.0	.0

TT = 6.0000 DTH = .0500 ITERR = 1
QU(1) = 7698.12 YU(1) = 1040.69 QU(N) = 512.29 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.69	.91	8448.	1552.	1552.	7.698	.0350	-.70	.79	32.3	.1	7.59
8	.066	1032.94	3.47	2238.	2291.	2291.	7.758	.0350	-.70	.97	.0	.6	1.54

15	.131	1030.78	2.68	2934.	4002.	4002.	7.857	.0350	-.70	.79	.0	.6	1.25
22	.467	1017.09	2.99	2904.	3905.	4292.	8.691	.0350	-.50	1.11	.0	.6	1.59
29	.692	1009.20	2.82	3373.	4327.	5669.	9.515	.0350	-.30	.82	.0	.6	1.00
36	.942	999.37	3.10	3497.	4922.	6599.	10.853	.0350	-.10	.70	.0	.6	.84
43	1.274	984.71	3.55	3753.	4265.	5562.	13.340	.0350	-.10	1.10	.0	.7	1.29
50	1.605	970.42	3.33	4957.	5594.	6509.	16.510	.0350	-.10	1.66	.0	.6	2.10
57	1.973	957.05	3.47	5874.	5728.	6585.	20.382	.0350	.00	1.61	.0	.6	2.14
64	2.361	943.71	3.81	6539.	5772.	6771.	24.904	.0350	.00	1.57	.0	.6	2.04
71	2.789	928.47	3.86	7815.	6435.	7613.	30.199	.0350	.00	2.46	.0	.6	3.14
78	3.235	911.38	4.53	8124.	5643.	6565.	36.843	.0350	.00	2.65	.0	.7	3.38
85	3.675	894.94	3.27	6080.	4394.	5154.	19.873	.0350	.00	2.07	.0	.5	2.81
92	4.060	887.96	2.42	3370.	3317.	3843.	8.150	.0350	.00	1.26	.0	.4	1.96
99	4.445	881.08	2.22	1585.	2505.	2801.	3.524	.0350	.00	.66	.0	.5	1.20
106	4.800	878.02	.78	658.	1613.	1780.	.513	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	622.	1411.	1543.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .92 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.000	7698.1	1040.69	1036.40	1035.37	1.00	275.0	7698.1	7698.1	.0	.0

TT = 6.0500 DTH = .0500 ITERR = 1

QU(1) = 7462.55 YU(1) = 1040.60 QU(N) = 512.29 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.60	.90	8313.	1545.	1545.	7.463	.0350	-.70	.70	31.3	.1	7.50
8	.066	1032.93	3.42	2196.	2284.	2284.	7.518	.0350	-.70	.95	.0	.6	1.53
15	.131	1030.77	2.64	2878.	3995.	3995.	7.610	.0350	-.70	.78	.0	.5	1.24
22	.467	1017.07	2.97	2819.	3836.	4217.	8.370	.0350	-.50	1.09	.0	.6	1.57
29	.692	1009.18	2.78	3266.	4278.	5603.	9.085	.0350	-.30	.80	.0	.6	.98
36	.942	999.34	3.04	3359.	4871.	6522.	10.223	.0350	-.10	.68	.0	.6	.82
43	1.274	984.66	3.50	3532.	4104.	5375.	12.378	.0350	-.10	1.05	.0	.7	1.24
50	1.605	970.37	3.26	4689.	5463.	6339.	15.273	.0350	-.10	1.61	.0	.6	2.05
57	1.973	957.00	3.39	5556.	5604.	6432.	18.855	.0350	.00	1.55	.0	.6	2.09
64	2.361	943.65	3.73	6196.	5643.	6640.	23.109	.0350	.00	1.51	.0	.6	1.98
71	2.789	928.41	3.77	7432.	6350.	7485.	28.033	.0350	.00	2.40	.0	.6	3.08
78	3.235	911.31	4.44	7726.	5480.	6393.	34.331	.0350	.00	2.58	.0	.7	3.31
85	3.675	895.40	3.57	8273.	5149.	5956.	29.506	.0350	.00	2.53	.0	.5	3.27
92	4.060	888.06	2.56	3713.	3463.	4000.	9.491	.0350	.00	1.36	.0	.4	2.06
99	4.445	881.35	2.46	2300.	2815.	3143.	5.649	.0350	.00	.92	.0	.5	1.47
106	4.800	878.02	.78	659.	1614.	1781.	.514	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	622.	1411.	1543.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .92 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.050	7462.6	1040.60	1036.40	1035.34	1.00	275.0	7462.6	7462.6	.0	.0

TT = 6.1000 DTH = .0500 ITERR = 1

QU(1) = 7244.38 YU(1) = 1040.52 QU(N) = 512.39 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.52	.88	8187.	1539.	1539.	7.244	.0350	-.70	.62	30.4	.1	7.42
8	.066	1032.91	3.38	2156.	2278.	2278.	7.297	.0350	-.70	.93	.0	.6	1.51
15	.131	1030.76	2.61	2826.	3990.	3990.	7.383	.0350	-.70	.76	.0	.5	1.22
22	.467	1017.05	2.95	2742.	3772.	4148.	8.083	.0350	-.50	1.07	.0	.6	1.55
29	.692	1009.16	2.75	3173.	4236.	5547.	8.719	.0350	-.30	.78	.0	.6	.96
36	.942	999.32	2.99	3240.	4825.	6455.	9.694	.0350	-.10	.65	.0	.6	.79
43	1.274	984.61	3.46	3336.	3956.	5203.	11.542	.0350	-.10	1.00	.0	.7	1.19
50	1.605	970.32	3.19	4442.	5340.	6179.	14.161	.0350	-.10	1.57	.0	.6	2.01
57	1.973	956.94	3.32	5263.	5488.	6288.	17.472	.0350	.00	1.50	.0	.6	2.04
64	2.361	943.59	3.65	5876.	5520.	6516.	21.471	.0350	.00	1.45	.0	.6	1.92
71	2.789	928.36	3.69	7089.	6272.	7369.	26.167	.0350	.00	2.35	.0	.6	3.02
78	3.235	911.24	4.37	7323.	5310.	6214.	31.965	.0350	.00	2.50	.0	.7	3.24
85	3.675	895.67	3.59	9713.	5589.	6423.	34.877	.0350	.00	2.80	.0	.5	3.54
92	4.060	888.30	2.86	4585.	3808.	4372.	13.122	.0350	.00	1.60	.0	.5	2.30
99	4.445	881.49	2.54	2718.	2981.	3327.	6.905	.0350	.00	1.07	.0	.5	1.62
106	4.800	878.02	.79	666.	1623.	1791.	.527	.0350	.00	.01	.0	.2	.82
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	622.	1411.	1543.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .94 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.100	7244.4	1040.52	1036.40	1035.32	1.00	275.0	7244.4	7244.4	.0	.0

TT = 6.1500 DTH = .0500 ITERR = 1

QU(1) = 7039.39 YU(1) = 1040.44 QU(N) = 512.37 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.44	.87	8068.	1533.	1533.	7.039	.0350	-.70	.54	29.5	.1	7.34
8	.066	1032.89	3.35	2119.	2272.	2272.	7.089	.0350	-.70	.91	.0	.6	1.49
15	.131	1030.75	2.58	2777.	3984.	3984.	7.171	.0350	-.70	.75	.0	.5	1.21
22	.467	1017.03	2.93	2672.	3713.	4083.	7.822	.0350	-.50	1.05	.0	.6	1.53
29	.692	1009.14	2.72	3092.	4199.	5496.	8.399	.0350	-.30	.76	.0	.6	.94
36	.942	999.30	2.95	3138.	4786.	6397.	9.247	.0350	-.10	.63	.0	.6	.77
43	1.274	984.57	3.42	3163.	3820.	5045.	10.819	.0350	-.10	.96	.0	.7	1.15
50	1.605	970.28	3.13	4209.	5182.	6001.	13.186	.0350	-.10	1.52	.0	.6	1.96
57	1.973	956.89	3.25	4986.	5363.	6142.	16.224	.0350	.00	1.45	.0	.6	1.98
64	2.361	943.54	3.58	5576.	5402.	6397.	19.971	.0350	.00	1.40	.0	.6	1.87
71	2.789	928.31	3.61	6791.	6204.	7267.	24.537	.0350	.00	2.30	.0	.6	2.98
78	3.235	911.16	4.29	6946.	5146.	6041.	29.804	.0350	.00	2.43	.0	.7	3.16
85	3.675	895.73	3.48	10063.	5691.	6531.	35.068	.0350	.00	2.86	.0	.5	3.60
92	4.060	888.68	3.24	6114.	4348.	4953.	19.794	.0350	.00	1.98	.0	.5	2.68
99	4.445	881.61	2.60	3079.	3117.	3478.	8.002	.0350	.00	1.19	.0	.5	1.73
106	4.800	878.06	.87	731.	1700.	1875.	.639	.0350	.00	.05	.0	.2	.86
113	5.150	875.95	.80	637.	1492.	1638.	.512	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	622.	1411.	1543.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .95 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.150	7039.4	1040.44	1036.40	1035.29	1.00	275.0	7039.4	7039.4	.0	.0

TT = 6.2000 DTH = .0500 ITERR = 1
QU(1) = 6844.53 YU(1) = 1040.37 QU(N) = 512.37 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.37	.86	7955.	1528.	1528.	6.845	.0350	-.70	.47	28.7	.1	7.27
8	.066	1032.88	3.31	2083.	2266.	2266.	6.893	.0350	-.70	.90	.0	.6	1.48
15	.131	1030.73	2.55	2730.	3978.	3978.	6.971	.0350	-.70	.74	.0	.5	1.20
22	.467	1017.01	2.91	2607.	3658.	4023.	7.584	.0350	-.50	1.03	.0	.6	1.51
29	.692	1009.12	2.69	3018.	4165.	5451.	8.112	.0350	-.30	.74	.0	.6	.92
36	.942	999.28	2.91	3051.	4753.	6347.	8.865	.0350	-.10	.61	.0	.6	.75
43	1.274	984.53	3.39	3013.	3698.	4903.	10.200	.0350	-.10	.92	.0	.7	1.11
50	1.605	970.24	3.09	3989.	5018.	5823.	12.310	.0350	-.10	1.48	.0	.6	1.92
57	1.973	956.84	3.20	4721.	5210.	5981.	15.107	.0350	.00	1.40	.0	.6	1.93
64	2.361	943.48	3.51	5296.	5290.	6283.	18.595	.0350	.00	1.35	.0	.6	1.82
71	2.789	928.27	3.54	6528.	6143.	7176.	23.103	.0350	.00	2.26	.0	.6	2.93
78	3.235	911.09	4.22	6596.	4989.	5875.	27.861	.0350	.00	2.36	.0	.6	3.09
85	3.675	895.69	3.39	9832.	5624.	6460.	33.322	.0350	.00	2.82	.0	.5	3.56
92	4.060	889.04	3.47	7767.	4865.	5509.	26.945	.0350	.00	2.34	.0	.5	3.04
99	4.445	881.78	2.76	3618.	3310.	3691.	10.002	.0350	.00	1.35	.0	.5	1.90
106	4.800	878.24	1.18	1074.	2061.	2273.	1.272	.0350	.00	.23	.0	.3	1.04
113	5.150	875.95	.80	637.	1492.	1638.	.513	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	622.	1411.	1543.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .97 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.200	6844.5	1040.37	1036.40	1035.27	1.00	275.0	6844.5	6844.5	.0	.0

TT = 6.2500 DTH = .0500 ITERR = 1
QU(1) = 6657.38 YU(1) = 1040.30 QU(N) = 512.37 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.30	.85	7845.	1522.	1522.	6.657	.0350	-.70	.40	27.9	.1	7.20
8	.066	1032.86	3.27	2048.	2260.	2260.	6.704	.0350	-.70	.88	.0	.6	1.46
15	.131	1030.72	2.53	2685.	3973.	3973.	6.780	.0350	-.70	.73	.0	.5	1.19
22	.467	1016.99	2.89	2547.	3606.	3967.	7.363	.0350	-.50	1.02	.0	.6	1.49
29	.692	1009.10	2.66	2950.	4134.	5408.	7.850	.0350	-.30	.72	.0	.6	.90
36	.942	999.26	2.87	2974.	4723.	6303.	8.534	.0350	-.10	.60	.0	.6	.74
43	1.274	984.49	3.36	2884.	3590.	4778.	9.682	.0350	-.10	.88	.0	.7	1.07
50	1.605	970.20	3.04	3790.	4865.	5656.	11.534	.0350	-.10	1.44	.0	.6	1.88
57	1.973	956.80	3.15	4478.	5066.	5829.	14.102	.0350	.00	1.35	.0	.6	1.89
64	2.361	943.43	3.44	5036.	5184.	6176.	17.342	.0350	.00	1.30	.0	.6	1.77
71	2.789	928.22	3.46	6264.	6081.	7083.	21.667	.0350	.00	2.21	.0	.6	2.89
78	3.235	911.03	4.16	6280.	4842.	5721.	26.155	.0350	.00	2.30	.0	.6	3.03
85	3.675	895.61	3.32	9429.	5505.	6334.	31.295	.0350	.00	2.75	.0	.4	3.49
92	4.060	889.26	3.52	8868.	5181.	5849.	31.204	.0350	.00	2.56	.0	.5	3.26
99	4.445	882.06	3.05	4605.	3637.	4053.	14.038	.0350	.00	1.64	.0	.5	2.19
106	4.800	878.58	1.57	1889.	2665.	2940.	2.959	.0350	.00	.58	.0	.3	1.38
113	5.150	875.95	.81	637.	1492.	1639.	.513	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	622.	1411.	1543.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .97 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.250	6657.4	1040.30	1036.40	1035.24	1.00	275.0	6657.4	6657.4	.0	.0

TT = 6.3000 DTH = .0500 ITERR = 1
QU(1) = 6482.78 YU(1) = 1040.23 QU(N) = 512.37 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.23	.84	7742.	1517.	1517.	6.483	.0350	-.70	.33	27.1	.1	7.13
8	.066	1032.85	3.24	2015.	2255.	2255.	6.526	.0350	-.70	.87	.0	.6	1.45
15	.131	1030.71	2.50	2641.	3968.	3968.	6.599	.0350	-.70	.72	.0	.5	1.18
22	.467	1016.98	2.87	2490.	3556.	3912.	7.157	.0350	-.50	1.00	.0	.6	1.48
29	.692	1009.09	2.64	2888.	4105.	5369.	7.613	.0350	-.30	.71	.0	.6	.89
36	.942	999.25	2.84	2905.	4695.	6263.	8.238	.0350	-.10	.58	.0	.6	.72
43	1.274	984.46	3.33	2771.	3493.	4665.	9.229	.0350	-.10	.85	.0	.7	1.04
50	1.605	970.16	3.01	3612.	4725.	5503.	10.858	.0350	-.10	1.40	.0	.6	1.84
57	1.973	956.75	3.10	4257.	4931.	5687.	13.201	.0350	.00	1.30	.0	.6	1.84
64	2.361	943.39	3.38	4794.	5082.	6074.	16.195	.0350	.00	1.25	.0	.6	1.72
71	2.789	928.17	3.41	5965.	5895.	6887.	20.317	.0350	.00	2.16	.0	.6	2.84
78	3.235	910.97	4.11	5994.	4706.	5577.	24.635	.0350	.00	2.24	.0	.6	2.97
85	3.675	895.54	3.26	9000.	5376.	6196.	29.359	.0350	.00	2.67	.0	.4	3.41
92	4.060	889.34	3.48	9301.	5299.	5977.	32.376	.0350	.00	2.64	.0	.5	3.34
99	4.445	882.43	3.33	6015.	4059.	4520.	20.040	.0350	.00	2.00	.0	.5	2.55
106	4.800	878.94	1.82	2897.	3064.	3382.	5.269	.0350	.00	.93	.0	.3	1.74
113	5.150	875.95	.81	638.	1494.	1640.	.515	.0350	.00	.01	.0	.2	.85
120	5.500	873.88	.82	622.	1411.	1543.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .97 IIFR= 83 FRM= .07 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.300	6482.8	1040.23	1036.40	1035.22	1.00	275.0	6482.8	6482.8	.0	.0

TT = 6.3500 DTH = .0500 ITERR = 1
QU(1) = 6324.18 YU(1) = 1040.17 QU(N) = 512.37 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.17	.83	7648.	1512.	1512.	6.324	.0350	-.70	.27	26.5	.1	7.07
8	.066	1032.83	3.21	1985.	2250.	2250.	6.364	.0350	-.70	.85	.0	.6	1.43
15	.131	1030.70	2.47	2601.	3964.	3964.	6.430	.0350	-.70	.71	.0	.5	1.17
22	.467	1016.96	2.86	2436.	3508.	3860.	6.962	.0350	-.50	.99	.0	.6	1.46
29	.692	1009.07	2.61	2830.	4078.	5332.	7.393	.0350	-.30	.69	.0	.6	.87
36	.942	999.23	2.81	2841.	4671.	6226.	7.972	.0350	-.10	.57	.0	.6	.71
43	1.274	984.43	3.31	2675.	3408.	4567.	8.853	.0350	-.10	.82	.0	.7	1.01
50	1.605	970.13	2.97	3456.	4598.	5365.	10.271	.0350	-.10	1.37	.0	.6	1.81
57	1.973	956.71	3.06	4054.	4804.	5554.	12.391	.0350	.00	1.26	.0	.6	1.80
64	2.361	943.34	3.32	4569.	4987.	5977.	15.148	.0350	.00	1.20	.0	.6	1.67
71	2.789	928.12	3.36	5655.	5689.	6671.	19.018	.0350	.00	2.11	.0	.6	2.79
78	3.235	910.91	4.06	5728.	4576.	5440.	23.239	.0350	.00	2.18	.0	.6	2.91
85	3.675	895.46	3.21	8588.	5248.	6061.	27.590	.0350	.00	2.59	.0	.4	3.33
92	4.060	889.34	3.42	9303.	5300.	5978.	31.863	.0350	.00	2.64	.0	.5	3.34

99	4.445	882.76	3.46	7422.	4441.	4942.	25.713	.0350	.00	2.34	.0	.5	2.88
106	4.800	879.28	2.05	4030.	3459.	3818.	8.247	.0350	.00	1.27	.0	.3	2.08
113	5.150	875.96	.82	647.	1504.	1651.	.530	.0350	.00	.01	.0	.2	.86
120	5.500	873.88	.82	622.	1411.	1543.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .98 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.350	6324.2	1040.17	1036.40	1035.20	1.00	275.0	6324.2	6324.2	.0	.0

TT = 6.4000 DTH = .0500 ITERR = 1

QU(1) = 6178.06 YU(1) = 1040.11 QU(N) = 512.38 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.11	.82	7560.	1508.	1508.	6.178	.0350	-.70	.21	25.8	.1	7.01
8	.066	1032.82	3.18	1957.	2245.	2245.	6.215	.0350	-.70	.84	.0	.6	1.42
15	.131	1030.69	2.45	2563.	3959.	3959.	6.277	.0350	-.70	.70	.0	.5	1.16
22	.467	1016.95	2.84	2385.	3461.	3809.	6.777	.0350	-.50	.97	.0	.6	1.45
29	.692	1009.06	2.59	2776.	4052.	5297.	7.188	.0350	-.30	.68	.0	.6	.86
36	.942	999.22	2.78	2783.	4647.	6191.	7.728	.0350	-.10	.55	.0	.6	.69
43	1.274	984.41	3.28	2596.	3353.	4499.	8.523	.0350	-.10	.80	.0	.7	.99
50	1.605	970.10	2.94	3319.	4484.	5240.	9.766	.0350	-.10	1.34	.0	.6	1.78
57	1.973	956.67	3.01	3869.	4686.	5429.	11.662	.0350	.00	1.22	.0	.6	1.76
64	2.361	943.30	3.26	4361.	4896.	5886.	14.197	.0350	.00	1.16	.0	.6	1.63
71	2.789	928.07	3.32	5362.	5486.	6459.	17.813	.0350	.00	2.06	.0	.6	2.74
78	3.235	910.86	4.01	5476.	4449.	5306.	21.943	.0350	.00	2.12	.0	.6	2.86
85	3.675	895.38	3.17	8206.	5127.	5933.	25.987	.0350	.00	2.52	.0	.4	3.26
92	4.060	889.30	3.37	9089.	5242.	5915.	30.606	.0350	.00	2.60	.0	.5	3.30
99	4.445	882.98	3.45	8448.	4699.	5228.	29.135	.0350	.00	2.56	.0	.5	3.11
106	4.800	879.66	2.31	5433.	3892.	4298.	12.525	.0350	.00	1.66	.0	.3	2.46
113	5.150	876.00	.91	710.	1576.	1730.	.643	.0350	.00	.06	.0	.2	.90
120	5.500	873.88	.82	622.	1411.	1543.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .98 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.400	6178.1	1040.11	1036.40	1035.18	1.00	275.0	6178.1	6178.1	.0	.0

TT = 6.4500 DTH = .0500 ITERR = 1

QU(1) = 6041.52 YU(1) = 1040.05 QU(N) = 512.41 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.05	.81	7479.	1504.	1504.	6.042	.0350	-.70	.16	25.2	.1	6.95
8	.066	1032.81	3.15	1930.	2241.	2241.	6.077	.0350	-.70	.83	.0	.6	1.41
15	.131	1030.68	2.43	2528.	3955.	3955.	6.134	.0350	-.70	.69	.0	.5	1.15
22	.467	1016.93	2.83	2336.	3416.	3761.	6.602	.0350	-.50	.96	.0	.6	1.43
29	.692	1009.05	2.57	2724.	4027.	5264.	6.993	.0350	-.30	.67	.0	.6	.85
36	.942	999.21	2.75	2729.	4626.	6160.	7.503	.0350	-.10	.54	.0	.6	.68
43	1.274	984.39	3.25	2531.	3324.	4458.	8.227	.0350	-.10	.78	.0	.7	.97
50	1.605	970.07	2.92	3198.	4380.	5127.	9.329	.0350	-.10	1.31	.0	.6	1.75

57	1.973	956.64	2.97	3702.	4576.	5313.	11.013	.0350	.00	1.19	.0	.6	1.73
64	2.361	943.26	3.20	4170.	4812.	5800.	13.335	.0350	.00	1.12	.0	.6	1.59
71	2.789	928.02	3.28	5087.	5290.	6253.	16.710	.0350	.00	2.01	.0	.6	2.68
78	3.235	910.80	3.96	5236.	4324.	5174.	20.719	.0350	.00	2.07	.0	.6	2.80
85	3.675	895.31	3.12	7853.	5013.	5811.	24.536	.0350	.00	2.45	.0	.4	3.19
92	4.060	889.24	3.31	8782.	5157.	5823.	29.099	.0350	.00	2.54	.0	.4	3.24
99	4.445	883.10	3.37	9025.	4787.	5324.	30.440	.0350	.00	2.68	.0	.4	3.23
106	4.800	880.05	2.51	7022.	4331.	4783.	17.612	.0350	.00	2.04	.0	.3	2.85
113	5.150	876.21	1.26	1075.	1939.	2129.	1.350	.0350	.00	.26	.0	.3	1.11
120	5.500	873.88	.82	622.	1411.	1543.	.512	.0350	.00	.01	.0	.2	.88

FRDM= .98 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.450	6041.5	1040.05	1036.40	1035.16	1.00	275.0	6041.5	6041.5	.0	.0

TT = 6.5000 DTH = .0500 ITERR = 2
QU(1) = 5912.50 YU(1) = 1040.00 QU(N) = 512.87 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1040.00	.80	7401.	1500.	1500.	5.913	.0350	-.70	.10	24.7	.1	6.90
8	.066	1032.80	3.12	1905.	2237.	2237.	5.946	.0350	-.70	.82	.0	.6	1.40
15	.131	1030.67	2.41	2495.	3951.	3951.	6.001	.0350	-.70	.68	.0	.5	1.14
22	.467	1016.92	2.81	2289.	3374.	3714.	6.439	.0350	-.50	.94	.0	.6	1.42
29	.692	1009.04	2.55	2674.	4003.	5231.	6.808	.0350	-.30	.65	.0	.5	.84
36	.942	999.20	2.72	2678.	4606.	6130.	7.295	.0350	-.10	.53	.0	.6	.67
43	1.274	984.37	3.22	2473.	3298.	4421.	7.968	.0350	-.10	.76	.0	.7	.95
50	1.605	970.04	2.89	3092.	4288.	5026.	8.950	.0350	-.10	1.29	.0	.6	1.73
57	1.973	956.60	2.94	3552.	4475.	5207.	10.442	.0350	.00	1.16	.0	.6	1.69
64	2.361	943.22	3.14	3993.	4733.	5720.	12.554	.0350	.00	1.09	.0	.6	1.56
71	2.789	927.97	3.25	4830.	5099.	6054.	15.696	.0350	.00	1.96	.0	.6	2.63
78	3.235	910.75	3.91	5000.	4198.	5042.	19.539	.0350	.00	2.01	.0	.6	2.75
85	3.675	895.25	3.08	7525.	4904.	5696.	23.201	.0350	.00	2.39	.0	.4	3.12
92	4.060	889.17	3.26	8446.	5062.	5721.	27.559	.0350	.00	2.47	.0	.4	3.17
99	4.445	883.15	3.28	9265.	4820.	5359.	30.351	.0350	.00	2.73	.0	.4	3.28
106	4.800	880.38	2.61	8492.	4627.	5107.	22.197	.0350	.00	2.37	.0	.3	3.18
113	5.150	876.67	1.78	2166.	2752.	3022.	3.849	.0350	.00	.73	.0	.4	1.57
120	5.500	873.88	.82	622.	1411.	1543.	.513	.0350	.00	.01	.0	.2	.88

FRDM= .98 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	6.500	5912.5	1040.00	1036.40	1035.15	1.00	275.0	5912.5	5912.5	.0	.0

TT = 6.5500 DTH = .0500 ITERR = 2
QU(1) = 5787.31 YU(1) = 1039.95 QU(N) = 516.29 YU(N) = 873.88

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.95	.79	7325.	1496.	1496.	5.787	.0350	-.70	.05	24.2	.1	6.85
8	.066	1032.79	3.10	1881.	2233.	2233.	5.820	.0350	-.70	.81	.0	.6	1.39

15	.131	1030.67	2.38	2463.	3948.	3948.	5.874	.0350	-.70	.67	.0	.5	1.13
22	.467	1016.91	2.80	2246.	3333.	3670.	6.288	.0350	-.50	.93	.0	.6	1.41
29	.692	1009.02	2.53	2627.	3981.	5201.	6.634	.0350	-.30	.64	.0	.5	.82
36	.942	999.19	2.70	2630.	4587.	6101.	7.098	.0350	-.10	.52	.0	.6	.66
43	1.274	984.36	3.19	2420.	3274.	4387.	7.729	.0350	-.10	.74	.0	.7	.94
50	1.605	970.02	2.87	2998.	4204.	4935.	8.616	.0350	-.10	1.26	.0	.6	1.71
57	1.973	956.57	2.91	3420.	4384.	5111.	9.941	.0350	.00	1.13	.0	.6	1.66
64	2.361	943.19	3.09	3832.	4659.	5646.	11.852	.0350	.00	1.05	.0	.6	1.52
71	2.789	927.92	3.22	4589.	4914.	5860.	14.768	.0350	.00	1.91	.0	.6	2.59
78	3.235	910.69	3.86	4770.	4072.	4908.	18.405	.0350	.00	1.96	.0	.6	2.69
85	3.675	895.18	3.04	7216.	4800.	5585.	21.956	.0350	.00	2.32	.0	.4	3.06
92	4.060	889.11	3.22	8111.	4966.	5618.	26.084	.0350	.00	2.41	.0	.4	3.11
99	4.445	883.16	3.18	9284.	4823.	5362.	29.536	.0350	.00	2.74	.0	.4	3.28
106	4.800	880.61	2.63	9570.	4791.	5283.	25.144	.0350	.00	2.60	.0	.3	3.41
113	5.150	877.22	2.20	3879.	3451.	3787.	8.514	.0350	.00	1.28	.0	.4	2.12
120	5.500	873.88	.83	625.	1414.	1547.	.516	.0350	.00	.01	.0	.2	.88

FRDM= .98 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	6.550	5787.3	1039.95	1036.40	1035.13	1.00	275.0	5787.3	5787.3	.0	.0

TT = 6.6000 DTH = .0500 ITERR = 2

QU(1) = 5663.06 YU(1) = 1039.90 QU(N) = 551.02 YU(N) = 873.90

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.90	.78	7249.	1493.	1493.	5.663	.0350	-.70	.00	23.7	.1	6.80
8	.066	1032.78	3.07	1856.	2229.	2229.	5.696	.0350	-.70	.80	.0	.6	1.38
15	.131	1030.66	2.37	2431.	3944.	3944.	5.750	.0350	-.70	.66	.0	.5	1.12
22	.467	1016.90	2.79	2206.	3295.	3629.	6.147	.0350	-.50	.92	.0	.6	1.40
29	.692	1009.01	2.51	2582.	3959.	5171.	6.471	.0350	-.30	.63	.0	.5	.81
36	.942	999.18	2.67	2584.	4568.	6074.	6.911	.0350	-.10	.51	.0	.6	.65
43	1.274	984.34	3.17	2371.	3252.	4355.	7.509	.0350	-.10	.73	.0	.7	.92
50	1.605	970.00	2.85	2915.	4128.	4853.	8.320	.0350	-.10	1.24	.0	.6	1.69
57	1.973	956.55	2.88	3302.	4301.	5024.	9.502	.0350	.00	1.10	.0	.6	1.64
64	2.361	943.16	3.04	3685.	4591.	5577.	11.219	.0350	.00	1.02	.0	.6	1.49
71	2.789	927.87	3.19	4365.	4734.	5672.	13.919	.0350	.00	1.86	.0	.6	2.54
78	3.235	910.64	3.81	4550.	3947.	4776.	17.339	.0350	.00	1.90	.0	.6	2.64
85	3.675	895.12	3.00	6922.	4698.	5477.	20.779	.0350	.00	2.26	.0	.4	3.00
92	4.060	889.04	3.17	7789.	4871.	5516.	24.698	.0350	.00	2.34	.0	.4	3.04
99	4.445	883.13	3.10	9165.	4806.	5344.	28.394	.0350	.00	2.71	.0	.4	3.26
106	4.800	880.75	2.60	10257.	4892.	5393.	26.623	.0350	.00	2.74	.0	.3	3.55
113	5.150	877.70	2.40	5658.	4021.	4410.	13.591	.0350	.00	1.75	.0	.4	2.60
120	5.500	873.90	.84	654.	1447.	1583.	.551	.0350	.00	.03	.0	.2	.90

FRDM= .98 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	6.600	5663.1	1039.90	1036.40	1035.11	1.00	275.0	5663.1	5663.1	.0	.0

TT = 6.6500 DTH = .0500 ITERR = 2

QU(1) = 5539.54 YU(1) = 1039.85 QU(N) = 893.29 YU(N) = 874.07

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.85	.77	7174.	1489.	1489.	5.540	.0350	-.70	-.05	23.1	.1	6.75
8	.066	1032.76	3.04	1832.	2225.	2225.	5.573	.0350	-.70	.79	.0	.6	1.36
15	.131	1030.65	2.34	2401.	3940.	3940.	5.627	.0350	-.70	.66	.0	.5	1.12
22	.467	1016.88	2.77	2169.	3259.	3589.	6.016	.0350	-.50	.91	.0	.6	1.38
29	.692	1009.00	2.49	2540.	3939.	5144.	6.320	.0350	-.30	.62	.0	.5	.80
36	.942	999.17	2.65	2540.	4550.	6047.	6.735	.0350	-.10	.50	.0	.6	.64
43	1.274	984.33	3.14	2326.	3232.	4326.	7.303	.0350	-.10	.72	.0	.7	.91
50	1.605	969.98	2.84	2840.	4058.	4777.	8.056	.0350	-.10	1.23	.0	.6	1.67
57	1.973	956.52	2.85	3198.	4227.	4945.	9.118	.0350	.00	1.07	.0	.6	1.61
64	2.361	943.13	3.00	3551.	4528.	5513.	10.654	.0350	.00	.99	.0	.6	1.46
71	2.789	927.83	3.16	4156.	4561.	5491.	13.145	.0350	.00	1.82	.0	.6	2.50
78	3.235	910.58	3.77	4342.	3825.	4648.	16.356	.0350	.00	1.85	.0	.6	2.58
85	3.675	895.06	2.96	6638.	4598.	5370.	19.658	.0350	.00	2.20	.0	.4	2.94
92	4.060	888.98	3.13	7482.	4780.	5418.	23.403	.0350	.00	2.28	.0	.4	2.98
99	4.445	883.09	3.03	8964.	4779.	5315.	27.123	.0350	.00	2.67	.0	.4	3.22
106	4.800	880.83	2.55	10661.	4951.	5456.	27.152	.0350	.00	2.82	.0	.3	3.63
113	5.150	878.07	2.50	7218.	4461.	4892.	18.013	.0350	.00	2.12	.0	.3	2.97
120	5.500	874.07	.98	913.	1709.	1870.	.893	.0350	.00	.20	.0	.2	1.07

FRDM= .99 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	6.650	5539.5	1039.85	1036.40	1035.09	1.00	275.0	5539.5	5539.5	.0	.0

TT = 6.7000 DTH = .0500 ITERR = 2

QU(1) = 5416.78 YU(1) = 1039.80 QU(N) = 2909.94 YU(N) = 874.57

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.80	.76	7098.	1485.	1485.	5.417	.0350	-.70	-.10	22.6	.1	6.70
8	.066	1032.75	3.02	1807.	2220.	2220.	5.450	.0350	-.70	.78	.0	.6	1.35
15	.131	1030.64	2.32	2368.	3937.	3937.	5.504	.0350	-.70	.65	.0	.5	1.11
22	.467	1016.87	2.76	2133.	3224.	3551.	5.891	.0350	-.50	.90	.0	.6	1.37
29	.692	1008.99	2.47	2501.	3920.	5118.	6.179	.0350	-.30	.61	.0	.5	.79
36	.942	999.16	2.63	2498.	4533.	6022.	6.570	.0350	-.10	.49	.0	.6	.63
43	1.274	984.32	3.11	2285.	3213.	4299.	7.110	.0350	-.10	.70	.0	.7	.89
50	1.605	969.97	2.82	2770.	3993.	4705.	7.813	.0350	-.10	1.21	.0	.6	1.65
57	1.973	956.50	2.83	3105.	4159.	4874.	8.778	.0350	.00	1.05	.0	.6	1.59
64	2.361	943.10	2.96	3431.	4471.	5456.	10.151	.0350	.00	.96	.0	.6	1.43
71	2.789	927.79	3.14	3962.	4394.	5317.	12.441	.0350	.00	1.77	.0	.6	2.45
78	3.235	910.53	3.73	4148.	3708.	4524.	15.451	.0350	.00	1.80	.0	.6	2.53
85	3.675	895.00	2.92	6364.	4499.	5265.	18.589	.0350	.00	2.14	.0	.4	2.88
92	4.060	888.92	3.09	7191.	4691.	5322.	22.188	.0350	.00	2.22	.0	.4	2.92
99	4.445	883.04	2.96	8715.	4745.	5278.	25.836	.0350	.00	2.62	.0	.4	3.16
106	4.800	880.87	2.49	10854.	4979.	5486.	27.058	.0350	.00	2.86	.0	.3	3.67
113	5.150	878.33	2.52	8429.	4683.	5135.	21.264	.0350	.00	2.39	.0	.3	3.23
120	5.500	874.57	1.48	1962.	2505.	2740.	2.910	.0350	.00	.69	.0	.3	1.57

FRDM= .99 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	2	6.700	5416.8	1039.80	1036.40	1035.08	1.00	275.0	5416.8	5416.8	.0	.0

TT = 6.7500 DTH = .0500 ITERR = 1
QU(1) = 5294.51 YU(1) = 1039.75 QU(N) = 7747.02 YU(N) = 875.15

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.75	.75	7023.	1481.	1481.	5.295	.0350	-.70	-.15	22.1	.1	6.65
8	.066	1032.74	2.99	1783.	2216.	2216.	5.328	.0350	-.70	.76	.0	.6	1.34
15	.131	1030.63	2.30	2337.	3933.	3933.	5.382	.0350	-.70	.64	.0	.5	1.10
22	.467	1016.86	2.75	2097.	3189.	3514.	5.770	.0350	-.50	.88	.0	.6	1.36
29	.692	1008.98	2.45	2464.	3902.	5093.	6.046	.0350	-.30	.60	.0	.5	.78
36	.942	999.15	2.61	2459.	4517.	5998.	6.414	.0350	-.10	.48	.0	.6	.62
43	1.274	984.30	3.09	2245.	3195.	4273.	6.926	.0350	-.10	.69	.0	.6	.88
50	1.605	969.95	2.81	2705.	3931.	4637.	7.587	.0350	-.10	1.19	.0	.6	1.63
57	1.973	956.48	2.80	3021.	4098.	4809.	8.473	.0350	.00	1.03	.0	.6	1.57
64	2.361	943.08	2.92	3323.	4419.	5403.	9.707	.0350	.00	.94	.0	.6	1.41
71	2.789	927.74	3.12	3783.	4234.	5149.	11.801	.0350	.00	1.73	.0	.6	2.41
78	3.235	910.48	3.69	3966.	3594.	4404.	14.618	.0350	.00	1.75	.0	.6	2.48
85	3.675	894.94	2.88	6101.	4402.	5162.	17.579	.0350	.00	2.08	.0	.4	2.82
92	4.060	888.86	3.04	6913.	4605.	5230.	21.042	.0350	.00	2.16	.0	.4	2.86
99	4.445	882.98	2.91	8439.	4697.	5226.	24.583	.0350	.00	2.56	.0	.4	3.11
106	4.800	880.88	2.44	10900.	4985.	5493.	26.590	.0350	.00	2.87	.0	.3	3.68
113	5.150	878.51	2.51	9261.	4821.	5287.	23.223	.0350	.00	2.56	.0	.3	3.41
120	5.500	875.15	2.10	3696.	3395.	3710.	7.747	.0350	.00	1.28	.0	.4	2.15

FRDM= .99 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.750	5294.5	1039.75	1036.40	1035.06	1.00	275.0	5294.5	5294.5	.0	.0

TT = 6.8000 DTH = .0500 ITERR = 1
QU(1) = 5172.66 YU(1) = 1039.70 QU(N) = 12999.20 YU(N) = 875.60

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.70	.74	6947.	1477.	1477.	5.173	.0350	-.70	-.20	21.6	.1	6.60
8	.066	1032.73	2.96	1758.	2212.	2212.	5.206	.0350	-.70	.75	.0	.6	1.33
15	.131	1030.63	2.28	2305.	3929.	3929.	5.261	.0350	-.70	.63	.0	.5	1.09
22	.467	1016.85	2.74	2062.	3154.	3476.	5.649	.0350	-.50	.87	.0	.6	1.35
29	.692	1008.97	2.44	2429.	3884.	5070.	5.921	.0350	-.30	.59	.0	.5	.77
36	.942	999.14	2.59	2422.	4502.	5976.	6.268	.0350	-.10	.48	.0	.6	.62
43	1.274	984.29	3.06	2206.	3177.	4247.	6.753	.0350	-.10	.68	.0	.6	.87
50	1.605	969.93	2.79	2644.	3871.	4573.	7.377	.0350	-.10	1.18	.0	.6	1.62
57	1.973	956.46	2.78	2945.	4041.	4749.	8.200	.0350	.00	1.01	.0	.6	1.55
64	2.361	943.05	2.89	3227.	4371.	5355.	9.313	.0350	.00	.92	.0	.6	1.39
71	2.789	927.70	3.10	3617.	4080.	4988.	11.222	.0350	.00	1.69	.0	.6	2.37
78	3.235	910.43	3.65	3796.	3485.	4289.	13.855	.0350	.00	1.70	.0	.6	2.43
85	3.675	894.88	2.84	5850.	4307.	5062.	16.631	.0350	.00	2.02	.0	.4	2.76
92	4.060	888.80	3.00	6646.	4521.	5139.	19.955	.0350	.00	2.10	.0	.4	2.80
99	4.445	882.92	2.87	8150.	4626.	5147.	23.391	.0350	.00	2.50	.0	.4	3.04
106	4.800	880.87	2.39	10843.	4977.	5484.	25.895	.0350	.00	2.86	.0	.3	3.67
113	5.150	878.62	2.48	9810.	4910.	5384.	24.304	.0350	.00	2.67	.0	.3	3.52
120	5.500	875.60	2.43	5356.	3981.	4341.	12.999	.0350	.00	1.73	.0	.4	2.60

FRDM= .99 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.800	5172.7	1039.70	1036.40	1035.04	1.00	275.0	5172.7	5172.7	.0	.0

TT = 6.8500 DTH = .0500 ITERR = 1
QU(1) = 5050.99 YU(1) = 1039.65 QU(N) = 16931.12 YU(N) = 875.92

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.65	.74	6871.	1473.	1473.	5.051	.0350	-.70	-.25	21.1	.1	6.55
8	.066	1032.72	2.93	1733.	2208.	2208.	5.085	.0350	-.70	.74	.0	.6	1.32
15	.131	1030.62	2.26	2273.	3925.	3925.	5.140	.0350	-.70	.62	.0	.5	1.08
22	.467	1016.84	2.73	2027.	3119.	3438.	5.530	.0350	-.50	.86	.0	.6	1.34
29	.692	1008.96	2.42	2395.	3867.	5047.	5.800	.0350	-.30	.58	.0	.5	.76
36	.942	999.13	2.57	2387.	4488.	5955.	6.132	.0350	-.10	.47	.0	.6	.61
43	1.274	984.28	3.04	2168.	3159.	4222.	6.591	.0350	-.10	.67	.0	.6	.86
50	1.605	969.92	2.78	2586.	3815.	4511.	7.182	.0350	-.10	1.16	.0	.6	1.60
57	1.973	956.44	2.77	2876.	3988.	4693.	7.951	.0350	.00	1.00	.0	.6	1.53
64	2.361	943.03	2.85	3141.	4329.	5312.	8.963	.0350	.00	.90	.0	.6	1.37
71	2.789	927.67	3.09	3464.	3933.	4834.	10.700	.0350	.00	1.65	.0	.6	2.33
78	3.235	910.39	3.62	3637.	3380.	4178.	13.156	.0350	.00	1.65	.0	.6	2.39
85	3.675	894.83	2.81	5612.	4215.	4965.	15.747	.0350	.00	1.97	.0	.4	2.70
92	4.060	888.74	2.96	6391.	4439.	5050.	18.925	.0350	.00	2.04	.0	.4	2.74
99	4.445	882.86	2.83	7857.	4552.	5066.	22.243	.0350	.00	2.43	.0	.4	2.98
106	4.800	880.84	2.34	10715.	4959.	5464.	25.073	.0350	.00	2.83	.0	.3	3.64
113	5.150	878.69	2.44	10149.	4964.	5444.	24.767	.0350	.00	2.74	.0	.3	3.59
120	5.500	875.92	2.53	6689.	4395.	4786.	16.931	.0350	.00	2.05	.0	.4	2.92

FRDM= .99 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.850	5051.0	1039.65	1036.40	1035.02	1.00	275.0	5051.0	5051.0	.0	.0

TT = 6.9000 DTH = .0500 ITERR = 1
QU(1) = 4929.42 YU(1) = 1039.59 QU(N) = 19781.43 YU(N) = 876.14

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.59	.73	6795.	1470.	1470.	4.929	.0350	-.70	-.30	20.6	.1	6.49
8	.066	1032.71	2.91	1708.	2204.	2204.	4.964	.0350	-.70	.73	.0	.6	1.31
15	.131	1030.61	2.24	2241.	3922.	3922.	5.019	.0350	-.70	.62	.0	.5	1.08
22	.467	1016.83	2.72	1992.	3084.	3399.	5.411	.0350	-.50	.85	.0	.6	1.33
29	.692	1008.96	2.41	2361.	3850.	5024.	5.680	.0350	-.30	.58	.0	.5	.76
36	.942	999.13	2.55	2354.	4474.	5935.	6.004	.0350	-.10	.46	.0	.6	.60
43	1.274	984.27	3.02	2132.	3142.	4198.	6.437	.0350	-.10	.65	.0	.6	.85
50	1.605	969.91	2.76	2531.	3760.	4451.	6.995	.0350	-.10	1.15	.0	.6	1.59
57	1.973	956.43	2.75	2811.	3938.	4641.	7.722	.0350	.00	.98	.0	.6	1.52
64	2.361	943.02	2.82	3062.	4290.	5273.	8.650	.0350	.00	.88	.0	.6	1.35
71	2.789	927.63	3.08	3323.	3792.	4687.	10.231	.0350	.00	1.62	.0	.6	2.30
78	3.235	910.34	3.59	3490.	3279.	4072.	12.516	.0350	.00	1.61	.0	.6	2.34
85	3.675	894.78	2.77	5390.	4128.	4872.	14.935	.0350	.00	1.91	.0	.4	2.65
92	4.060	888.69	2.92	6145.	4358.	4964.	17.950	.0350	.00	1.98	.0	.4	2.69

99	4.445	882.79	2.79	7566.	4478.	4983.	21.147	.0350	.00	2.37	.0	.4	2.92
106	4.800	880.81	2.29	10537.	4933.	5437.	24.182	.0350	.00	2.80	.0	.3	3.61
113	5.150	878.73	2.40	10333.	4993.	5476.	24.807	.0350	.00	2.78	.0	.3	3.63
120	5.500	876.14	2.57	7684.	4622.	5035.	19.781	.0350	.00	2.27	.0	.4	3.14

FRDM= .99 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.900	4929.4	1039.59	1036.40	1035.00	1.00	275.0	4929.4	4929.4	.0	.0

TT = 6.9500 DTH = .0500 ITERR = 1
QU(1) = 4807.99 YU(1) = 1039.54 QU(N) = 21511.65 YU(N) = 876.29

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.54	.72	6718.	1466.	1466.	4.808	.0350	-.70	-.36	20.1	.1	6.44
8	.066	1032.70	2.88	1683.	2200.	2200.	4.842	.0350	-.70	.72	.0	.6	1.30
15	.131	1030.60	2.22	2208.	3918.	3918.	4.899	.0350	-.70	.61	.0	.5	1.07
22	.467	1016.82	2.70	1955.	3046.	3358.	5.287	.0350	-.50	.84	.0	.6	1.32
29	.692	1008.95	2.39	2326.	3833.	5001.	5.560	.0350	-.30	.57	.0	.5	.75
36	.942	999.12	2.53	2323.	4461.	5915.	5.881	.0350	-.10	.45	.0	.6	.59
43	1.274	984.26	3.00	2098.	3126.	4175.	6.293	.0350	-.10	.64	.0	.6	.84
50	1.605	969.89	2.75	2478.	3706.	4392.	6.817	.0350	-.10	1.13	.0	.6	1.58
57	1.973	956.41	2.73	2750.	3891.	4591.	7.509	.0350	.00	.96	.0	.6	1.50
64	2.361	943.00	2.80	2991.	4254.	5237.	8.368	.0350	.00	.86	.0	.6	1.33
71	2.789	927.59	3.07	3194.	3659.	4547.	9.810	.0350	.00	1.58	.0	.6	2.26
78	3.235	910.30	3.56	3353.	3183.	3970.	11.934	.0350	.00	1.57	.0	.6	2.30
85	3.675	894.73	2.74	5183.	4044.	4783.	14.188	.0350	.00	1.86	.0	.4	2.60
92	4.060	888.63	2.88	5911.	4280.	4880.	17.032	.0350	.00	1.93	.0	.4	2.63
99	4.445	882.73	2.76	7280.	4404.	4901.	20.103	.0350	.00	2.30	.0	.4	2.85
106	4.800	880.76	2.25	10326.	4902.	5403.	23.256	.0350	.00	2.75	.0	.3	3.56
113	5.150	878.74	2.36	10403.	5004.	5488.	24.561	.0350	.00	2.79	.0	.3	3.64
120	5.500	876.29	2.57	8376.	4751.	5180.	21.512	.0350	.00	2.42	.0	.3	3.29

FRDM= .99 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	6.950	4808.0	1039.54	1036.40	1034.99	1.00	275.0	4808.0	4808.0	.0	.0

TT = 7.0000 DTH = .0500 ITERR = 0
QU(1) = 4686.70 YU(1) = 1039.49 QU(N) = 22521.15 YU(N) = 876.39

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.49	.71	6641.	1462.	1462.	4.687	.0350	-.70	-.41	19.6	.1	6.39
8	.066	1032.69	2.85	1658.	2195.	2195.	4.721	.0350	-.70	.71	.0	.6	1.29
15	.131	1030.59	2.20	2175.	3914.	3914.	4.778	.0350	-.70	.60	.0	.5	1.06
22	.467	1016.80	2.69	1918.	3007.	3315.	5.162	.0350	-.50	.83	.0	.6	1.30
29	.692	1008.94	2.37	2292.	3816.	4978.	5.441	.0350	-.30	.56	.0	.5	.74
36	.942	999.11	2.51	2292.	4448.	5896.	5.762	.0350	-.10	.45	.0	.6	.59
43	1.274	984.25	2.98	2066.	3111.	4154.	6.156	.0350	-.10	.63	.0	.6	.83
50	1.605	969.88	2.74	2429.	3655.	4337.	6.651	.0350	-.10	1.12	.0	.6	1.56

57	1.973	956.40	2.71	2694.	3846.	4544.	7.308	.0350	.00	.95	.0	.6	1.49
64	2.361	942.98	2.77	2926.	4221.	5204.	8.111	.0350	.00	.85	.0	.6	1.32
71	2.789	927.56	3.07	3077.	3533.	4415.	9.432	.0350	.00	1.55	.0	.6	2.23
78	3.235	910.26	3.53	3226.	3091.	3874.	11.401	.0350	.00	1.53	.0	.6	2.26
85	3.675	894.68	2.71	4990.	3966.	4699.	13.499	.0350	.00	1.81	.0	.4	2.55
92	4.060	888.58	2.84	5688.	4205.	4799.	16.171	.0350	.00	1.88	.0	.4	2.58
99	4.445	882.66	2.73	7001.	4330.	4820.	19.109	.0350	.00	2.24	.0	.4	2.79
106	4.800	880.71	2.21	10092.	4868.	5367.	22.319	.0350	.00	2.71	.0	.3	3.51
113	5.150	878.74	2.32	10387.	5002.	5485.	24.118	.0350	.00	2.79	.0	.3	3.64
120	5.500	876.39	2.54	8857.	4839.	5277.	22.521	.0350	.00	2.52	.0	.3	3.39

FRDM= .99 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	7.000	4686.7	1039.49	1036.40	1034.97	1.00	275.0	4686.7	4686.7	.0	.0

TT = 7.0500 DTH = .0500 ITERR = 0

QU(1) = 4550.33 YU(1) = 1039.43 QU(N) = 23001.49 YU(N) = 876.45

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.43	.69	6554.	1457.	1457.	4.550	.0350	-.70	-.47	19.1	.1	6.33
8	.066	1032.67	2.82	1630.	2191.	2191.	4.591	.0350	-.70	.70	.0	.6	1.27
15	.131	1030.58	2.17	2141.	3910.	3910.	4.653	.0350	-.70	.59	.0	.5	1.05
22	.467	1016.79	2.68	1882.	2969.	3274.	5.043	.0350	-.50	.81	.0	.6	1.29
29	.692	1008.93	2.36	2258.	3799.	4954.	5.321	.0350	-.30	.55	.0	.5	.73
36	.942	999.11	2.50	2261.	4436.	5877.	5.643	.0350	-.10	.44	.0	.6	.58
43	1.274	984.24	2.96	2035.	3097.	4133.	6.028	.0350	-.10	.62	.0	.6	.82
50	1.605	969.86	2.73	2383.	3607.	4284.	6.499	.0350	-.10	1.11	.0	.6	1.55
57	1.973	956.38	2.70	2640.	3803.	4499.	7.121	.0350	.00	.93	.0	.6	1.47
64	2.361	942.97	2.75	2866.	4191.	5173.	7.876	.0350	.00	.83	.0	.6	1.30
71	2.789	927.53	3.06	2969.	3413.	4290.	9.096	.0350	.00	1.52	.0	.6	2.20
78	3.235	910.22	3.51	3111.	3005.	3782.	10.923	.0350	.00	1.49	.0	.6	2.22
85	3.675	894.63	2.67	4810.	3890.	4620.	12.867	.0350	.00	1.77	.0	.4	2.51
92	4.060	888.53	2.81	5478.	4132.	4721.	15.373	.0350	.00	1.83	.0	.4	2.53
99	4.445	882.60	2.70	6732.	4258.	4740.	18.171	.0350	.00	2.18	.0	.4	2.72
106	4.800	880.66	2.17	9842.	4831.	5327.	21.390	.0350	.00	2.66	.0	.3	3.46
113	5.150	878.72	2.28	10306.	4989.	5471.	23.544	.0350	.00	2.77	.0	.3	3.62
120	5.500	876.45	2.50	9184.	4897.	5343.	23.001	.0350	.00	2.58	.0	.3	3.45

FRDM= .99 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	7.050	4550.3	1039.43	1036.40	1034.95	1.00	275.0	4550.3	4550.3	.0	.0

TT = 7.1000 DTH = .0500 ITERR = 0

QU(1) = 4387.83 YU(1) = 1039.36 QU(N) = 23124.44 YU(N) = 876.50

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.36	.68	6449.	1452.	1452.	4.388	.0350	-.70	-.54	18.5	.1	6.26
8	.066	1032.66	2.78	1597.	2185.	2185.	4.437	.0350	-.70	.68	.0	.6	1.26

15	.131	1030.57	2.15	2102.	3905.	3905.	4.512	.0350	-.70	.58	.0	.5	1.04
22	.467	1016.78	2.67	1846.	2931.	3233.	4.925	.0350	-.50	.80	.0	.6	1.28
29	.692	1008.92	2.34	2222.	3781.	4930.	5.200	.0350	-.30	.54	.0	.5	.72
36	.942	999.10	2.48	2230.	4423.	5858.	5.526	.0350	-.10	.43	.0	.6	.57
43	1.274	984.23	2.94	2006.	3083.	4113.	5.906	.0350	-.10	.61	.0	.6	.81
50	1.605	969.85	2.72	2339.	3561.	4234.	6.356	.0350	-.10	1.09	.0	.6	1.54
57	1.973	956.37	2.68	2588.	3762.	4455.	6.943	.0350	.00	.92	.0	.6	1.46
64	2.361	942.96	2.73	2810.	4162.	5144.	7.658	.0350	.00	.82	.0	.6	1.29
71	2.789	927.50	3.06	2869.	3298.	4170.	8.792	.0350	.00	1.49	.0	.6	2.17
78	3.235	910.19	3.49	3004.	2923.	3696.	10.488	.0350	.00	1.45	.0	.6	2.19
85	3.675	894.59	2.65	4642.	3818.	4543.	12.278	.0350	.00	1.72	.0	.4	2.46
92	4.060	888.48	2.77	5281.	4063.	4646.	14.631	.0350	.00	1.78	.0	.4	2.48
99	4.445	882.54	2.67	6472.	4187.	4662.	17.284	.0350	.00	2.12	.0	.4	2.66
106	4.800	880.61	2.14	9584.	4793.	5286.	20.477	.0350	.00	2.60	.0	.3	3.41
113	5.150	878.69	2.25	10176.	4968.	5448.	22.882	.0350	.00	2.75	.0	.3	3.59
120	5.500	876.50	2.46	9394.	4935.	5384.	23.124	.0350	.00	2.63	.0	.3	3.50

FRDM= .99 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	7.100	4387.8	1039.36	1036.40	1034.92	1.00	275.0	4387.8	4387.8	.0	.0

TT = 7.1500 DTH = .0500 ITERR = 0

QU(1) = 4205.33 YU(1) = 1039.28 QU(N) = 22994.85 YU(N) = 876.52

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.28	.66	6330.	1446.	1446.	4.205	.0350	-.70	-.62	17.8	.1	6.18
8	.066	1032.64	2.73	1559.	2179.	2179.	4.261	.0350	-.70	.66	.0	.6	1.24
15	.131	1030.56	2.11	2056.	3900.	3900.	4.348	.0350	-.70	.57	.0	.5	1.03
22	.467	1016.77	2.66	1810.	2892.	3190.	4.806	.0350	-.50	.79	.0	.6	1.27
29	.692	1008.91	2.32	2187.	3763.	4906.	5.080	.0350	-.30	.53	.0	.5	.71
36	.942	999.09	2.46	2199.	4410.	5839.	5.409	.0350	-.10	.43	.0	.6	.57
43	1.274	984.22	2.93	1977.	3069.	4093.	5.788	.0350	-.10	.60	.0	.6	.80
50	1.605	969.84	2.71	2298.	3516.	4185.	6.221	.0350	-.10	1.08	.0	.6	1.53
57	1.973	956.36	2.67	2539.	3722.	4413.	6.775	.0350	.00	.91	.0	.6	1.45
64	2.361	942.94	2.70	2758.	4135.	5116.	7.455	.0350	.00	.81	.0	.6	1.28
71	2.789	927.47	3.07	2777.	3188.	4055.	8.517	.0350	.00	1.46	.0	.6	2.14
78	3.235	910.15	3.47	2907.	2846.	3615.	10.096	.0350	.00	1.42	.0	.6	2.15
85	3.675	894.55	2.62	4484.	3750.	4471.	11.737	.0350	.00	1.68	.0	.4	2.42
92	4.060	888.44	2.74	5095.	3997.	4574.	13.943	.0350	.00	1.73	.0	.4	2.44
99	4.445	882.48	2.64	6224.	4118.	4585.	16.449	.0350	.00	2.06	.0	.4	2.60
106	4.800	880.55	2.10	9322.	4754.	5243.	19.588	.0350	.00	2.55	.0	.3	3.35
113	5.150	878.66	2.21	10012.	4942.	5420.	22.162	.0350	.00	2.72	.0	.3	3.56
120	5.500	876.52	2.42	9514.	4956.	5408.	22.995	.0350	.00	2.65	.0	.3	3.52

FRDM= .99 IIFR= 83 FRM= .06 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	7.150	4205.3	1039.28	1036.40	1034.89	1.00	275.0	4205.3	4205.3	.0	.0

TT = 7.2000 DTH = .0500 ITERR = 0

QU(1) = 4007.83 YU(1) = 1039.19 QU(N) = 22684.09 YU(N) = 876.53

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.19	.65	6200.	1439.	1439.	4.008	.0350	-.70	-.71	17.0	.1	6.09
8	.066	1032.62	2.68	1516.	2172.	2172.	4.068	.0350	-.70	.64	.0	.6	1.22
15	.131	1030.55	2.08	2004.	3894.	3894.	4.164	.0350	-.70	.55	.0	.5	1.02
22	.467	1016.75	2.64	1772.	2850.	3145.	4.682	.0350	-.50	.78	.0	.6	1.25
29	.692	1008.90	2.31	2153.	3745.	4881.	4.962	.0350	-.30	.52	.0	.5	.70
36	.942	999.08	2.44	2167.	4397.	5819.	5.291	.0350	-.10	.42	.0	.6	.56
43	1.274	984.21	2.91	1951.	3056.	4075.	5.671	.0350	-.10	.60	.0	.6	.79
50	1.605	969.83	2.70	2258.	3473.	4138.	6.091	.0350	-.10	1.07	.0	.6	1.51
57	1.973	956.34	2.65	2493.	3684.	4373.	6.617	.0350	.00	.90	.0	.6	1.43
64	2.361	942.93	2.68	2708.	4109.	5090.	7.264	.0350	.00	.79	.0	.6	1.27
71	2.789	927.44	3.07	2689.	3081.	3943.	8.265	.0350	.00	1.43	.0	.6	2.11
78	3.235	910.12	3.45	2822.	2778.	3543.	9.741	.0350	.00	1.39	.0	.6	2.12
85	3.675	894.51	2.59	4339.	3686.	4403.	11.247	.0350	.00	1.64	.0	.4	2.38
92	4.060	888.39	2.70	4921.	3933.	4506.	13.305	.0350	.00	1.69	.0	.4	2.39
99	4.445	882.42	2.62	5988.	4052.	4512.	15.666	.0350	.00	2.00	.0	.4	2.55
106	4.800	880.50	2.07	9058.	4714.	5200.	18.730	.0350	.00	2.49	.0	.3	3.30
113	5.150	878.62	2.18	9823.	4912.	5386.	21.410	.0350	.00	2.68	.0	.3	3.52
120	5.500	876.53	2.37	9564.	4965.	5418.	22.684	.0350	.00	2.66	.0	.3	3.53

FRDM= .99 IIFR= 83 FRM= .05 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	0	7.200	4007.8	1039.19	1036.40	1034.86	1.00	275.0	4007.8	4007.8	.0	.0

TT = 7.2500 DTH = .0500 ITERR = 1

QU(1) = 3799.29 YU(1) = 1039.09 QU(N) = 22266.63 YU(N) = 876.53

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1039.09	.63	6061.	1432.	1432.	3.799	.0350	-.70	-.81	16.1	.1	5.99
8	.066	1032.60	2.63	1470.	2164.	2164.	3.865	.0350	-.70	.62	.0	.6	1.20
15	.131	1030.53	2.05	1938.	3881.	3881.	3.970	.0350	-.70	.54	.0	.5	1.00
22	.467	1016.74	2.63	1729.	2802.	3093.	4.543	.0350	-.50	.76	.0	.6	1.24
29	.692	1008.89	2.29	2117.	3727.	4857.	4.844	.0350	-.30	.51	.0	.5	.69
36	.942	999.08	2.42	2135.	4383.	5800.	5.172	.0350	-.10	.41	.0	.6	.55
43	1.274	984.20	2.89	1924.	3043.	4056.	5.555	.0350	-.10	.59	.0	.6	.78
50	1.605	969.82	2.69	2218.	3430.	4091.	5.963	.0350	-.10	1.06	.0	.6	1.50
57	1.973	956.33	2.64	2450.	3648.	4335.	6.470	.0350	.00	.88	.0	.6	1.42
64	2.361	942.92	2.66	2661.	4084.	5065.	7.083	.0350	.00	.78	.0	.6	1.25
71	2.789	927.42	3.08	2607.	2976.	3833.	8.036	.0350	.00	1.41	.0	.6	2.08
78	3.235	910.09	3.43	2744.	2713.	3475.	9.419	.0350	.00	1.36	.0	.6	2.09
85	3.675	894.47	2.57	4206.	3626.	4339.	10.800	.0350	.00	1.61	.0	.4	2.35
92	4.060	888.35	2.67	4758.	3873.	4441.	12.714	.0350	.00	1.65	.0	.4	2.35
99	4.445	882.36	2.59	5763.	3987.	4441.	14.935	.0350	.00	1.94	.0	.4	2.49
106	4.800	880.44	2.04	8797.	4674.	5158.	17.905	.0350	.00	2.44	.0	.3	3.24
113	5.150	878.58	2.15	9616.	4879.	5350.	20.642	.0350	.00	2.63	.0	.3	3.48
120	5.500	876.53	2.33	9551.	4963.	5415.	22.267	.0350	.00	2.66	.0	.3	3.53

FRDM= .99 IIFR= 83 FRM= .05 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	7.250	3799.3	1039.09	1036.40	1034.82	1.00	275.0	3799.3	3799.3	.0	.0

TT = 7.3000 DTH = .0500 ITERR = 1
QU(1) = 3587.38 YU(1) = 1038.99 QU(N) = 21746.48 YU(N) = 876.52

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.99	.61	5918.	1424.	1424.	3.587	.0350	-.70	-.91	15.3	.1	5.89
8	.066	1032.58	2.57	1421.	2155.	2155.	3.654	.0350	-.70	.60	.0	.6	1.18
15	.131	1030.51	2.02	1866.	3808.	3808.	3.766	.0350	-.70	.52	.0	.5	.98
22	.467	1016.72	2.61	1678.	2744.	3030.	4.379	.0350	-.50	.74	.0	.6	1.22
29	.692	1008.88	2.27	2081.	3708.	4831.	4.721	.0350	-.30	.50	.0	.5	.68
36	.942	999.07	2.40	2103.	4370.	5780.	5.056	.0350	-.10	.40	.0	.6	.54
43	1.274	984.19	2.87	1897.	3030.	4038.	5.440	.0350	-.10	.58	.0	.6	.77
50	1.605	969.81	2.68	2179.	3386.	4043.	5.837	.0350	-.10	1.05	.0	.6	1.49
57	1.973	956.32	2.63	2409.	3614.	4299.	6.331	.0350	.00	.87	.0	.6	1.41
64	2.361	942.91	2.64	2616.	4061.	5041.	6.913	.0350	.00	.77	.0	.6	1.24
71	2.789	927.39	3.09	2528.	2871.	3724.	7.822	.0350	.00	1.38	.0	.6	2.06
78	3.235	910.06	3.41	2667.	2647.	3406.	9.098	.0350	.00	1.33	.0	.6	2.06
85	3.675	894.44	2.54	4081.	3569.	4279.	10.384	.0350	.00	1.57	.0	.4	2.31
92	4.060	888.31	2.64	4605.	3816.	4380.	12.165	.0350	.00	1.61	.0	.4	2.31
99	4.445	882.31	2.57	5548.	3925.	4371.	14.256	.0350	.00	1.89	.0	.4	2.44
106	4.800	880.39	2.00	8540.	4635.	5115.	17.117	.0350	.00	2.38	.0	.3	3.19
113	5.150	878.54	2.11	9397.	4843.	5311.	19.872	.0350	.00	2.59	.0	.3	3.44
120	5.500	876.52	2.29	9493.	4952.	5404.	21.746	.0350	.00	2.65	.0	.3	3.52

FRDM= .99 IIFR= 83 FRM= .05 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	7.300	3587.4	1038.99	1036.40	1034.78	1.00	275.0	3587.4	3587.4	.0	.0

TT = 7.3500 DTH = .0500 ITERR = 1
QU(1) = 3379.10 YU(1) = 1038.89 QU(N) = 21166.13 YU(N) = 876.50

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.89	.59	5775.	1417.	1417.	3.379	.0350	-.70	-1.01	14.4	.1	5.79
8	.066	1032.55	2.51	1372.	2147.	2147.	3.446	.0350	-.70	.58	.0	.6	1.15
15	.131	1030.49	1.99	1790.	3731.	3731.	3.563	.0350	-.70	.50	.0	.5	.96
22	.467	1016.70	2.59	1622.	2679.	2959.	4.201	.0350	-.50	.72	.0	.6	1.20
29	.692	1008.87	2.25	2041.	3687.	4803.	4.587	.0350	-.30	.49	.0	.5	.67
36	.942	999.06	2.38	2071.	4356.	5760.	4.939	.0350	-.10	.40	.0	.6	.54
43	1.274	984.18	2.85	1870.	3017.	4019.	5.325	.0350	-.10	.57	.0	.6	.76
50	1.605	969.80	2.67	2142.	3344.	3998.	5.720	.0350	-.10	1.04	.0	.6	1.48
57	1.973	956.31	2.62	2369.	3580.	4264.	6.198	.0350	.00	.86	.0	.6	1.40
64	2.361	942.90	2.62	2573.	4038.	5018.	6.751	.0350	.00	.76	.0	.6	1.23
71	2.789	927.36	3.11	2451.	2767.	3614.	7.625	.0350	.00	1.35	.0	.6	2.03
78	3.235	910.04	3.40	2598.	2588.	3343.	8.822	.0350	.00	1.30	.0	.6	2.04
85	3.675	894.40	2.52	3966.	3516.	4222.	10.004	.0350	.00	1.54	.0	.4	2.28
92	4.060	888.27	2.61	4462.	3761.	4321.	11.661	.0350	.00	1.57	.0	.4	2.27
99	4.445	882.26	2.55	5341.	3863.	4304.	13.621	.0350	.00	1.83	.0	.4	2.38
106	4.800	880.33	1.98	8290.	4596.	5073.	16.373	.0350	.00	2.33	.0	.3	3.13
113	5.150	878.49	2.08	9171.	4806.	5271.	19.108	.0350	.00	2.54	.0	.3	3.39
120	5.500	876.50	2.25	9400.	4936.	5386.	21.166	.0350	.00	2.63	.0	.3	3.50

FRDM= .99 IIFR= 83 FRM= .05 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	7.350	3379.1	1038.89	1036.40	1034.74	1.00	275.0	3379.1	3379.1	.0	.0

TT = 7.4000 DTH = .0500 ITERR = 1
QU(1) = 3173.70 YU(1) = 1038.79 QU(N) = 20542.20 YU(N) = 876.47

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.79	.56	5632.	1409.	1409.	3.174	.0350	-.70	-1.11	13.5	.0	5.69
8	.066	1032.53	2.45	1323.	2138.	2138.	3.241	.0350	-.70	.55	.0	.5	1.13
15	.131	1030.47	1.96	1715.	3651.	3651.	3.360	.0350	-.70	.48	.0	.5	.94
22	.467	1016.68	2.57	1565.	2610.	2884.	4.018	.0350	-.50	.70	.0	.6	1.18
29	.692	1008.86	2.22	1995.	3664.	4771.	4.436	.0350	-.30	.48	.0	.5	.66
36	.942	999.06	2.36	2039.	4342.	5739.	4.820	.0350	-.10	.39	.0	.6	.53
43	1.274	984.17	2.83	1843.	3004.	4000.	5.209	.0350	-.10	.56	.0	.6	.75
50	1.605	969.78	2.66	2107.	3304.	3954.	5.607	.0350	-.10	1.03	.0	.6	1.47
57	1.973	956.30	2.60	2331.	3548.	4229.	6.070	.0350	.00	.85	.0	.6	1.39
64	2.361	942.89	2.61	2533.	4017.	4997.	6.598	.0350	.00	.75	.0	.6	1.22
71	2.789	927.34	3.13	2375.	2659.	3501.	7.442	.0350	.00	1.32	.0	.6	2.00
78	3.235	910.02	3.38	2538.	2534.	3286.	8.576	.0350	.00	1.28	.0	.6	2.02
85	3.675	894.37	2.50	3860.	3466.	4169.	9.661	.0350	.00	1.51	.0	.4	2.25
92	4.060	888.24	2.59	4329.	3710.	4266.	11.196	.0350	.00	1.53	.0	.4	2.24
99	4.445	882.21	2.53	5145.	3805.	4238.	13.031	.0350	.00	1.78	.0	.4	2.33
106	4.800	880.28	1.95	8048.	4558.	5033.	15.673	.0350	.00	2.27	.0	.3	3.08
113	5.150	878.44	2.05	8942.	4768.	5229.	18.362	.0350	.00	2.49	.0	.3	3.34
120	5.500	876.47	2.21	9281.	4915.	5362.	20.542	.0350	.00	2.60	.0	.3	3.47

FRDM= .99 IIFR= 83 FRM= .05 IIFM= 1

RESERVOIR OUTFLOW INFORMATION

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	7.400	3173.7	1038.79	1036.40	1034.70	1.00	275.0	3173.7	3173.7	.0	.0

TT = 7.4500 DTH = .0500 ITERR = 1
QU(1) = 2970.95 YU(1) = 1038.68 QU(N) = 19897.71 YU(N) = 876.45

I	X(I)	Y	V	A	B	BT	Q	CMM	FKC	WAVHT	DISV	FRD	DEPTH
****	*******	*********	*******	********	********	*******	*********	********	*******	*******	******	******	********
1	.000	1038.68	.54	5489.	1401.	1401.	2.971	.0350	-.70	-1.21	12.7	.0	5.58
8	.066	1032.51	2.39	1272.	2130.	2130.	3.039	.0350	-.70	.53	.0	.5	1.11
15	.131	1030.45	1.93	1640.	3570.	3570.	3.162	.0350	-.70	.46	.0	.5	.92
22	.467	1016.65	2.55	1505.	2537.	2805.	3.830	.0350	-.50	.68	.0	.6	1.15
29	.692	1008.84	2.20	1944.	3637.	4735.	4.268	.0350	-.30	.46	.0	.5	.64
36	.942	999.05	2.34	2004.	4328.	5717.	4.696	.0350	-.10	.38	.0	.6	.52
43	1.274	984.16	2.81	1816.	2990.	3981.	5.094	.0350	-.10	.55	.0	.6	.74
50	1.605	969.77	2.65	2071.	3263.	3909.	5.494	.0350	-.10	1.02	.0	.6	1.46
57	1.973	956.29	2.59	2294.	3516.	4196.	5.946	.0350	.00	.84	.0	.6	1.38
64	2.361	942.88	2.59	2494.	3996.	4976.	6.455	.0350	.00	.74	.0	.6	1.21
71	2.789	927.31	3.16	2298.	2545.	3382.	7.269	.0350	.00	1.29	.0	.6	1.97
78	3.235	909.99	3.36	2479.	2490.	3237.	8.323	.0350	.00	1.26	.0	.6	1.99
85	3.675	894.34	2.48	3763.	3420.	4120.	9.347	.0350	.00	1.48	.0	.4	2.22
92	4.060	888.20	2.56	4206.	3662.	4214.	10.768	.0350	.00	1.50	.0	.4	2.20

99	4.445	882.16	2.52	4960.	3748.	4176.	12.481	.0350	.00	1.73	.0	.4	2.28
106	4.800	880.23	1.92	7818.	4522.	4994.	15.021	.0350	.00	2.22	.0	.3	3.03
113	5.150	878.39	2.02	8712.	4730.	5187.	17.638	.0350	.00	2.45	.0	.3	3.29
120	5.500	876.45	2.18	9142.	4890.	5334.	19.898	.0350	.00	2.57	.0	.3	3.45

FRDM= .99 IIFR= 83 FRM= .05 IIFM= 1

RESERVOIR OUTFLOW INFORMATION.

I	K	TT	Q(I)	H2	YB	D	SUB	BB	QU(1)	QBRECH	QOVTOP	QOTHR
1	1	7.450	2971.0	1038.68	1036.40	1034.66	1.00	275.0	2971.0	2971.0	.0	.0

NORMALIZED CONSERVATION OF MASS AS PERCENT OF MAX FLOW IN REACH = -.24

ROUTING COMPLETED.

KTIME= 149 ALLOWABLE KTIME= 699 TT= 7.5

1

PROFILE OF CRESTS AND TIMES FOR BREACH 1-SENARIO 2
BELOW WHITE TANKS FRS #4

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
********	********	********	********	********	**********	**********
.000	1053.04 *	58513	4.700	1.95	.00	.00
.010	1038.25 *	58513	4.900	7.91	1034.00	3.25
.019	1037.60 *	57860	4.900	8.01	1033.67	3.25
.029	1036.99 *	57229	4.900	8.01	1033.33	3.25
.038	1036.41 *	56604	4.900	7.90	1033.00	3.25
.047	1035.87 *	55984	4.900	7.72	1032.67	3.25
.057	1035.38 *	55375	4.900	7.49	1032.33	3.25
.066	1034.92	54778	4.950	7.24	1032.00	3.25
.075	1034.51	54458	4.950	6.98	1031.67	.00
.085	1034.11	54779	4.950	6.74	1031.33	.00
.094	1033.73	55064	4.950	6.54	1031.00	.00
.103	1033.36	55316	4.950	6.37	1030.67	.00
.113	1032.99	55534	4.950	6.21	1030.33	.00
.122	1032.64	55722	4.950	6.07	1030.00	.00
.131	1032.28	55880	4.950	5.95	1029.67	.00
.141	1031.93	56006	4.950	5.87	1029.33	.00
.150	1031.55	56102	4.950	5.87	1029.00	.00
.215	1028.52	55875	4.950	5.53	1027.00	3.65
.280	1025.66	53198	5.000	4.46	1025.00	4.90

.342	1023.28	53938	5.000	4.52	1022.25	4.85
.405	1020.88	53052	5.000	4.57	1019.50	4.65
.467	1018.49	51677	5.050	4.65	1016.75	3.70
.530	1016.19	52028	5.050	4.58	1014.00	3.60
.557	1015.21	51592	5.050	4.66	1013.20	3.70
.584	1014.23	50760	5.050	4.69	1012.40	3.75
.611	1013.29	49839	5.100	4.69	1011.60	3.85
.638	1012.36	50286	5.100	4.65	1010.80	3.95
.665	1011.43	50483	5.100	4.62	1010.00	4.10
.692	1010.51	50384	5.100	4.58	1009.20	4.90
.719	1009.59	49849	5.100	4.53	1008.40	4.95
.746	1008.68	48711	5.150	4.47	1007.60	5.00
.773	1007.83	48821	5.150	4.28	1006.80	5.00
.800	1006.78	49081	5.150	4.78	1006.00	5.05
.847	1004.65	48645	5.150	4.81	1003.84	5.05
.895	1002.53	47376	5.200	4.81	1001.68	5.05
.942	1000.44	47886	5.200	4.79	999.53	5.05
.989	998.32	47468	5.200	4.81	997.37	5.05
1.037	996.21	46402	5.250	4.79	995.21	5.10
1.084	994.12	46882	5.250	4.79	993.05	5.10
1.132	992.01	46584	5.250	4.81	990.89	5.10
1.179	989.90	45497	5.300	4.80	988.74	5.10
1.226	987.82	46043	5.300	4.79	986.58	5.10
1.274	985.72	45901	5.300	4.81	984.42	5.05
1.321	983.62	44870	5.350	4.78	982.26	4.35
1.368	981.54	45209	5.350	4.76	980.11	4.30
1.416	979.47	45223	5.350	4.72	977.95	4.30
1.463	977.35	44446	5.350	4.75	975.79	4.30
1.511	975.31	44356	5.400	4.60	973.63	4.30

PROFILE OF CRESTS AND TIMES FOR BREACH 1-SENARIO 2
BELOW WHITE TANKS FRS #4

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
********	********	********	********	********	**********	**********
1.558	973.19	44499	5.400	4.73	971.47	4.30
1.605	971.17	43864	5.400	4.43	969.32	4.30
1.653	968.97	43608	5.450	4.79	967.16	4.30
1.700	967.09	43749	5.450	4.08	965.00	4.30
1.755	965.19	42841	5.500	4.13	963.18	4.35
1.809	963.33	42862	5.500	4.15	961.36	4.40
1.864	961.44	42548	5.500	4.21	959.55	4.45
1.918	959.55	41900	5.550	4.24	957.73	4.50
1.973	957.67	42040	5.550	4.27	955.91	4.55
2.027	955.78	41484	5.550	4.31	954.09	4.60
2.082	953.90	41300	5.600	4.33	952.27	4.60
2.136	952.02	41290	5.600	4.35	950.45	4.65
2.191	950.12	40738	5.650	4.41	948.64	4.70
2.245	948.27	40718	5.650	4.33	946.82	4.75
2.300	946.35	40747	5.650	4.49	945.00	4.80
2.361	944.11	40179	5.700	4.47	942.78	4.85
2.422	941.91	40316	5.700	4.44	940.56	4.90
2.483	939.69	40250	5.700	4.44	938.33	4.95
2.544	937.47	39630	5.750	4.40	936.11	5.00
2.606	935.27	39951	5.750	4.40	933.89	5.00
2.667	933.07	39565	5.750	4.35	931.67	5.05
2.728	930.86	39421	5.800	4.36	929.44	5.10
2.789	928.69	39463	5.800	4.25	927.22	5.15
2.850	926.44	38730	5.850	4.38	925.00	5.20

2.914	923.97	39194	5.850	4.41	922.50	5.35
2.978	921.47	38521	5.900	4.42	920.00	5.50
3.043	918.97	38673	5.900	4.48	917.50	5.70
3.107	916.44	37950	5.950	4.53	915.00	5.70
3.171	913.90	38019	5.950	4.67	912.50	5.80
3.235	911.38	37468	6.000	4.62	910.00	5.75
3.299	908.79	37406	6.000	4.87	907.50	5.85
3.363	906.35	37079	6.000	4.57	905.00	5.80
3.427	903.62	36795	6.050	5.22	902.50	5.90
3.492	901.40	36662	6.050	4.28	900.00	5.80
3.556	898.31	36160	6.050	6.21	897.50	5.95
3.620	896.63	36105	6.100	3.63	895.00	5.60
3.675	895.73	35067	6.150	3.59	894.13	5.65
3.730	894.80	34816	6.150	3.59	893.25	5.70
3.785	893.90	34057	6.200	3.55	892.38	5.75
3.840	892.97	33822	6.250	3.55	891.50	5.85
3.895	892.07	33242	6.250	3.52	890.63	5.90
3.950	891.16	33028	6.300	3.53	889.75	6.00
4.005	890.25	32561	6.300	3.51	888.88	6.00
4.060	889.34	32376	6.350	3.52	888.00	6.05
4.115	888.44	31972	6.350	3.51	887.13	6.10
4.170	887.53	31822	6.350	3.52	886.25	6.10
4.225	886.63	31450	6.400	3.52	885.38	6.15
4.280	885.73	31338	6.400	3.53	884.50	6.15

PROFILE OF CRESTS AND TIMES FOR BREACH 1-SENARIO 2
BELOW WHITE TANKS FRS #4

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
********	********	********	********	********	**********	**********
4.335	884.83	30978	6.450	3.53	883.63	6.20
4.390	883.93	30900	6.450	3.55	882.75	6.20
4.445	883.16	30439	6.550	3.46	881.88	6.25
4.500	882.74	29953	6.550	2.75	881.00	6.20
4.550	882.43	29323	6.600	2.72	880.70	6.20
4.600	882.11	28917	6.650	2.71	880.40	6.25
4.650	881.81	28387	6.650	2.68	880.10	6.30
4.700	881.49	27993	6.700	2.67	879.80	6.30
4.750	881.19	27555	6.700	2.65	879.50	6.35
4.800	880.88	27152	6.750	2.63	879.20	6.35
4.850	880.57	26793	6.800	2.61	878.90	6.40
4.900	880.27	26377	6.800	2.59	878.60	6.40
4.950	879.96	26082	6.850	2.58	878.30	6.45
5.000	879.65	25736	6.850	2.56	878.00	6.50
5.050	879.35	25410	6.900	2.55	877.70	6.50
5.100	879.04	25125	6.950	2.53	877.40	6.55
5.150	878.74	24807	6.950	2.52	877.10	6.55
5.200	878.44	24536	7.000	2.51	876.80	6.60
5.250	878.13	24276	7.000	2.50	876.50	6.60
5.300	877.82	24008	7.050	2.48	876.20	6.65
5.350	877.51	23801	7.100	2.47	875.90	6.70
5.400	877.19	23591	7.100	2.46	875.60	6.70
5.450	876.87	23360	7.150	2.48	875.30	6.75
5.500	876.53	23124	7.200	2.57	875.00	6.75

* MAXIMUM WATER SURFACE ELEVATION (MAX ELEV) IS GREATER THAN HIGHEST ELEVATION OF TOP WIDTH (MAX HS) FOR THE FOLLOWING SECTIONS:

0

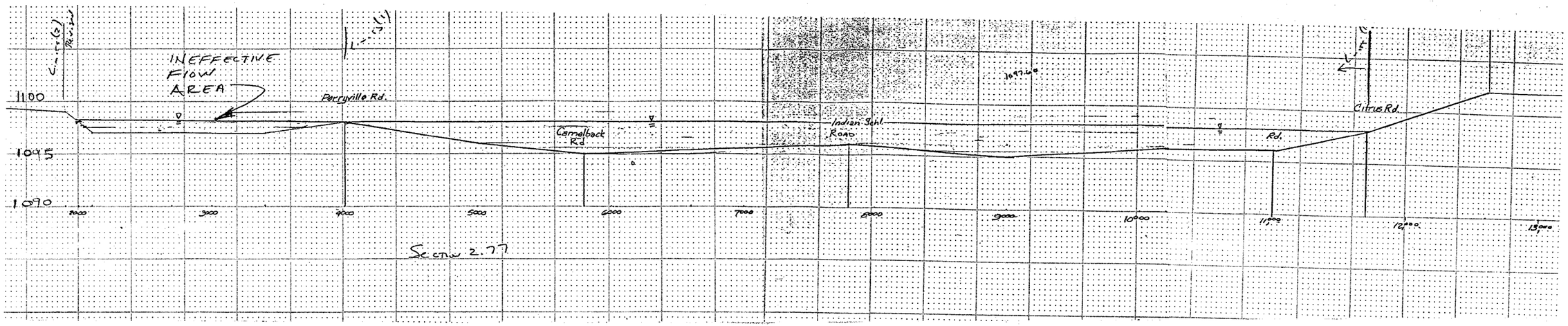
SECT NO	DISTANCE	MAX HS	MAX ELEV
1	.00	1050.00	1053.04
2	.01	1037.00	1038.25
3	.02	1036.67	1037.60
4	.03	1036.33	1036.99
5	.04	1036.00	1036.41
6	.05	1035.67	1035.87
7	.06	1035.33	1035.38

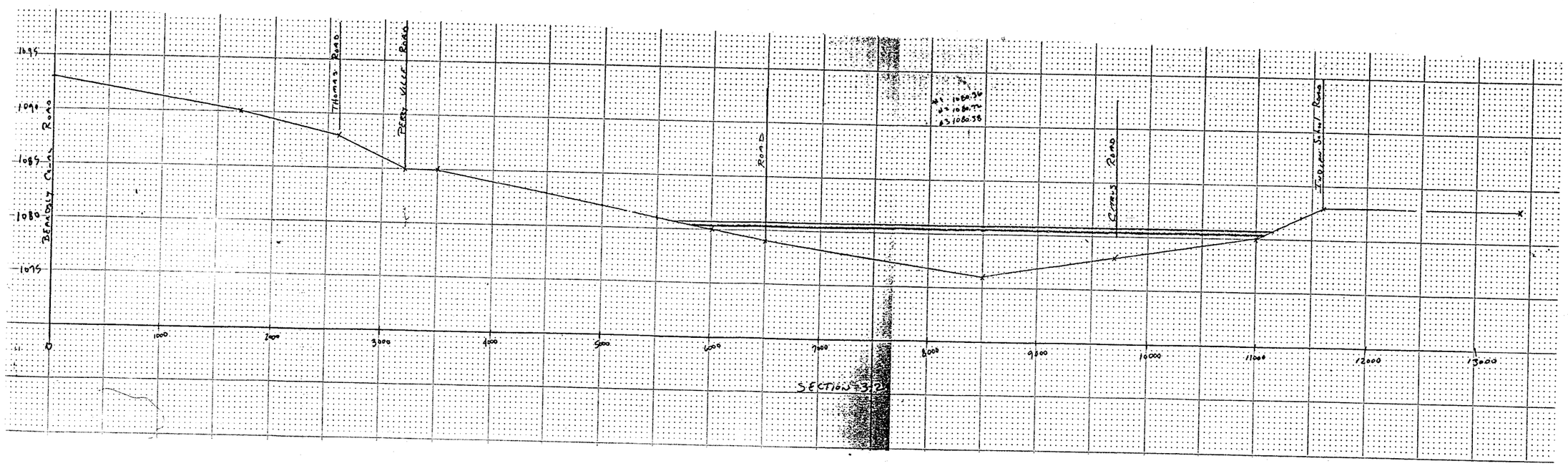
THE TOP WIDTH TABLES SHOULD BE EXTENDED UPWARD AT THESE SECTIONS WHICH WOULD PREVENT MAX ELEV EXCEEDING MAX HS.

1

APPENDIX F

Analysis of Downstream Effects





WHITE TANKS FRS #3
CROSS SECTIONS

KTIME= 123 ALLOWABLE KTIME= 699 TT= 11.5

WT3 BREACH LOCATION NO. 2

PROFILE OF CRESTS AND TIMES FOR BREACH 2-SENARIO 3
BELOW WHITE TANKS FRS #3

DISTANCE FROM DAM MILE ********	MAX ELEV FEET ********	MAX FLOW CFS ********	TIME MAX ELEV-HRS ********	MAX VEL FPS ********	FLOOD ELEV FEET **********	TIME FLOOD ELEV-HRS **********	MIN. ELEV.	Y DEPTH (FT)	Y * V
.000	1212.14	97378	4.200	2.30	.00	.00			
.010	1191.71	97378	4.700	9.59	1187.00	3.80	1185.0	6.71	
.057	1189.70	96652	4.700	9.62	1185.00	3.80			
.105	1187.64	95938	4.700	9.65	1183.00	3.80			
.153	1185.53	95227	4.700	9.73	1181.00	3.90			
.200	1183.67	94510	4.700	9.09	1179.00	3.90	1177.0	6.67	60.6
.247	1182.01	93795	4.700	8.87	1177.44	3.90			
.293	1180.36	93052	4.700	8.67	1175.89	3.90			
.340	1178.71	92275	4.700	8.48	1174.33	4.00			
.387	1177.08	91646	4.800	8.30	1172.78	4.00			
.433	1175.45	92083	4.800	8.16	1171.22	4.00			
.480	1173.83	92425	4.800	8.05	1169.67	4.10			
.527	1172.20	92668	4.800	7.95	1168.11	4.10			
.573	1170.58	92795	4.800	7.84	1166.56	4.10			
.620	1168.94	92825	4.800	7.77	1165.00	4.10	1162.0	6.94	53.9
.975	1159.00	89866	4.800	5.95	1155.50	4.20			
1.330	1148.90	89734	4.900	5.99	1146.00	4.30	1145.0	3.90	23.4
1.366	1147.70	89461	4.900	5.94	1144.75	4.30			
1.401	1146.48	89132	4.900	5.88	1143.50	4.30			
1.437	1145.27	88758	4.900	5.83	1142.25	4.30			
1.473	1144.04	88353	4.900	5.78	1141.00	4.30			
1.508	1142.82	87918	4.900	5.73	1139.75	4.30			
1.544	1141.59	87468	5.000	5.68	1138.50	4.40			
1.579	1140.37	87732	5.000	5.64	1137.25	4.40			
1.615	1139.14	87951	5.000	5.62	1136.00	4.40			
1.651	1137.91	88128	5.000	5.59	1134.75	4.40			
1.686	1136.67	88269	5.000	5.56	1133.50	4.40			
1.722	1135.44	88371	5.000	5.53	1132.25	4.40			
1.757	1134.20	88435	5.000	5.50	1131.00	4.40			
1.793	1132.96	88452	5.000	5.47	1129.75	4.40			
1.829	1131.71	88423	5.000	5.44	1128.50	4.40			
1.864	1130.47	88330	5.000	5.39	1127.25	4.40			
1.900	1129.20	88177	5.000	5.40	1126.00	4.40	1125.0	4.20	22.7
1.997	1125.71	87255	5.000	5.38	1122.61	4.50			
2.093	1122.24	86925	5.100	5.34	1119.22	4.60			
2.190	1118.78	87662	5.100	5.37	1115.83	4.60			
2.287	1115.33	87651	5.100	5.34	1112.44	4.60			
2.383	1111.84	86669	5.100	5.36	1109.06	4.70			
2.480	1108.39	85435	5.200	5.25	1105.67	4.70			
2.577	1104.91	86190	5.200	5.35	1102.28	4.80			
2.673	1101.52	86172	5.200	5.20	1098.89	4.80			
2.770	1097.98	85333	5.200	5.40	1095.50	4.80	1095.0	2.98	16.1
2.842	1095.11	84320	5.200	5.64	1092.58	4.90			
2.913	1092.27	84367	5.300	5.77	1089.67	4.90			
2.985	1089.31	84599	5.300	6.18	1086.75	5.00			
3.057	1086.47	84586	5.312	6.15	1083.83	5.00			
3.128	1083.35	84525	5.312	6.84	1080.92	5.00			
3.200	1080.72	84362	5.312	6.12	1078.00	5.00	1076.0	4.72	28.9

PROFILE OF CRESTS AND TIMES FOR BREACH 2-SENARIO 3
BELOW WHITE TANKS FRS #3

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS			
********	********	********	********	********	**********	**********			
3.216	1080.20	84357	5.312	6.13	1077.48	5.00			
3.232	1079.68	84381	5.312	6.14	1076.97	5.00			
3.248	1079.16	84406	5.300	6.14	1076.45	5.00			
3.264	1078.64	84432	5.300	6.15	1075.94	5.00			
3.280	1078.12	84457	5.300	6.16	1075.42	5.10			
3.296	1077.60	84484	5.300	6.16	1074.91	5.10			
3.312	1077.08	84510	5.300	6.17	1074.39	5.10			
3.328	1076.56	84533	5.300	6.18	1073.88	5.10			
3.345	1076.03	84550	5.300	6.18	1073.36	5.10			
3.361	1075.51	84558	5.300	6.19	1072.85	5.10			
3.377	1074.99	84550	5.300	6.20	1072.33	5.10			
3.393	1074.47	84526	5.312	6.20	1071.82	5.10			
3.409	1073.95	84485	5.312	6.20	1071.30	5.10			
3.425	1073.42	84421	5.312	6.20	1070.79	5.10			
3.441	1072.90	84329	5.312	6.20	1070.27	5.10			
3.457	1072.38	84216	5.312	6.20	1069.76	5.10			
3.473	1071.85	84151	5.312	6.20	1069.24	5.10			
3.489	1071.33	84061	5.312	6.19	1068.73	5.10			
3.505	1070.80	83942	5.400	6.19	1068.21	5.10			
3.521	1070.28	83788	5.400	6.18	1067.70	5.10			
3.537	1069.76	83598	5.400	6.18	1067.18	5.10			
3.553	1069.25	83604	5.400	6.17	1066.67	5.10			
3.569	1068.73	83685	5.400	6.16	1066.15	5.10			
3.585	1068.21	83762	5.400	6.15	1065.64	5.10			
3.602	1067.69	83827	5.400	6.14	1065.12	5.10			
3.618	1067.17	83881	5.400	6.13	1064.61	5.10			
3.634	1066.65	83928	5.400	6.12	1064.09	5.20			
3.650	1066.13	83960	5.400	6.11	1063.58	5.20			
3.666	1065.61	83971	5.400	6.09	1063.06	5.20			
3.682	1065.09	83966	5.400	6.07	1062.55	5.20			
3.698	1064.57	83938	5.400	6.01	1062.03	5.20			
3.714	1064.06	83865	5.400	5.93	1061.52	5.20			
3.730	1063.57	83769	5.400	5.80	1061.00	5.20	1059.0	4.57	26.5
3.795	1061.56	83159	5.400	5.64	1059.13	5.20			
3.860	1059.59	82492	5.500	5.55	1057.25	5.20			
3.925	1057.63	82842	5.500	5.46	1055.38	5.20			
3.990	1055.70	82902	5.500	5.37	1053.50	5.30			
4.055	1053.75	83331	5.500	5.32	1051.63	5.30			
4.120	1051.84	83464	5.500	5.20	1049.75	5.30			
4.185	1049.93	85152	5.500	5.19	1047.88	5.30			
4.250	1048.00	85632	5.500	5.17	1046.00	5.30	1044.0	4.00	20.7
4.423	1042.92	83673	5.600	5.09	1040.67	5.40			
4.597	1037.68	88089	5.600	5.78	1035.33	5.50			
4.770	1033.08	84614	5.700	4.76	1030.00	5.50	1028.0	5.08	24.2
4.827	1032.12	86711	5.700	4.92	1028.69	5.50			
4.883	1031.06	85971	5.700	5.10	1027.38	5.50			
4.940	1030.05	82188	5.800	5.46	1026.07	5.60			
4.997	1029.08	79891	5.800	5.82	1024.77	5.60			

PROFILE OF CRESTS AND TIMES FOR BREACH 2-SENARIO 3
BELOW WHITE TANKS FRS #3

DISTANCE FROM DAM	MAX ELEV	MAX FLOW	TIME MAX	MAX VEL	FLOOD ELEV	TIME FLOOD

MILE	FEET	CFS	ELEV-HRS	FPS	FEET	ELEV-HRS			
5.053	1028.07	79783	5.900	6.17	1023.46	5.60			
5.110	1027.19	77642	5.900	6.53	1022.15	5.60			
5.167	1026.51	72821	6.123	6.92	1020.84	5.70			
5.223	1026.06	71260	6.212	7.32	1019.53	5.70			
5.280	1025.69	67962	6.223	8.18	1018.22	5.70			
5.337	1025.35	61587	6.223	9.32	1016.92	5.70			
5.393	1024.97	55064	6.223	11.29	1015.61	5.80			
5.450	1024.46	54716	6.223	8.25	1014.30	5.80	1010.0	14.46	119.3
5.500	1014.54	54716	6.200	6.51	1014.00	6.00	1010.0	4.54	29.6
5.750	1006.98	54167	6.300	6.04	1005.33	6.00			
6.000	998.88	54413	6.400	6.58	996.67	6.00			
6.250	991.43	54485	6.300	5.42	988.00	6.10	986.0	5.43	29.4
6.583	982.87	53816	6.500	5.80	980.00	6.20			
6.917	974.27	53437	6.600	5.80	972.00	6.30			
7.250	965.77	52958	6.700	5.85	964.00	6.40	962.0	3.77	22.1
7.375	962.67	53061	6.700	5.80	960.75	6.40			
7.500	959.56	52529	6.800	5.78	957.50	6.50			
7.625	956.50	52897	6.700	5.75	954.25	6.50			
7.750	953.42	53884	6.700	5.84	951.00	6.50			
7.875	950.35	53512	6.700	5.74	947.75	6.50			
8.000	947.18	53730	6.800	5.91	944.50	6.60			
8.125	944.31	54647	6.800	5.55	941.25	6.60			
8.250	940.77	54206	6.800	7.33	938.00	6.60	936.0	4.77	35.0
8.450	934.42	53749	7.100	5.87	931.80	6.70			
8.650	927.48	52744	6.900	7.49	925.60	6.80			
8.850	921.67	53100	7.100	4.97	919.40	6.80			
9.050	914.24	52808	7.000	8.82	913.20	6.87			
9.250	909.17	52971	7.200	3.77	907.00	7.00	905.0	4.17	15.7
9.450	906.93	50393	7.300	3.68	904.80	7.00			
9.650	904.65	48998	7.400	3.53	902.60	7.10			
9.850	902.39	48221	7.500	3.38	900.40	7.20			
10.050	899.68	48437	7.500	3.80	898.20	7.30			
10.250	897.82	46971	7.700	2.97	896.00	7.40	894.0	3.82	11.3
10.313	897.44	46259	7.700	3.02	895.44	7.40			
10.375	897.05	45910	7.800	3.04	894.88	7.40			
10.438	896.66	45288	7.800	3.02	894.31	7.40			
10.500	896.24	44961	7.800	3.07	893.75	7.50			
10.563	895.78	44601	7.900	3.21	893.19	7.50			
10.625	895.29	44172	7.900	3.31	892.63	7.50			
10.688	894.76	43855	7.900	3.36	892.06	7.50			
10.750	894.22	43637	8.000	3.43	891.50	7.50			
10.813	893.68	43310	8.000	3.50	890.94	7.60			
10.875	893.12	42998	8.000	3.54	890.38	7.60			
10.938	892.56	42901	8.000	3.55	889.81	7.60			
11.000	891.99	42713	8.100	3.59	889.25	7.60			
11.063	891.42	42436	8.100	3.62	888.69	7.70			
11.125	890.84	42324	8.100	3.61	888.13	7.70			
11.188	890.24	42260	8.100	3.65	887.56	7.70			

PROFILE OF CRESTS AND TIMES FOR BREACH 2-SENARIO 3
BELOW WHITE TANKS FRS #3

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS			
11.250	889.59	42100	8.200	3.81	887.00	7.70	885.0	4.59	17.5

HIGH DANGER ZONE - Occupants of most houses are in danger from floodwater.

JUDGEMENT ZONE - Danger level is based upon engineering judgement.

LOW DANGER ZONE - Occupants of most houses are not seriously in danger from flood water.

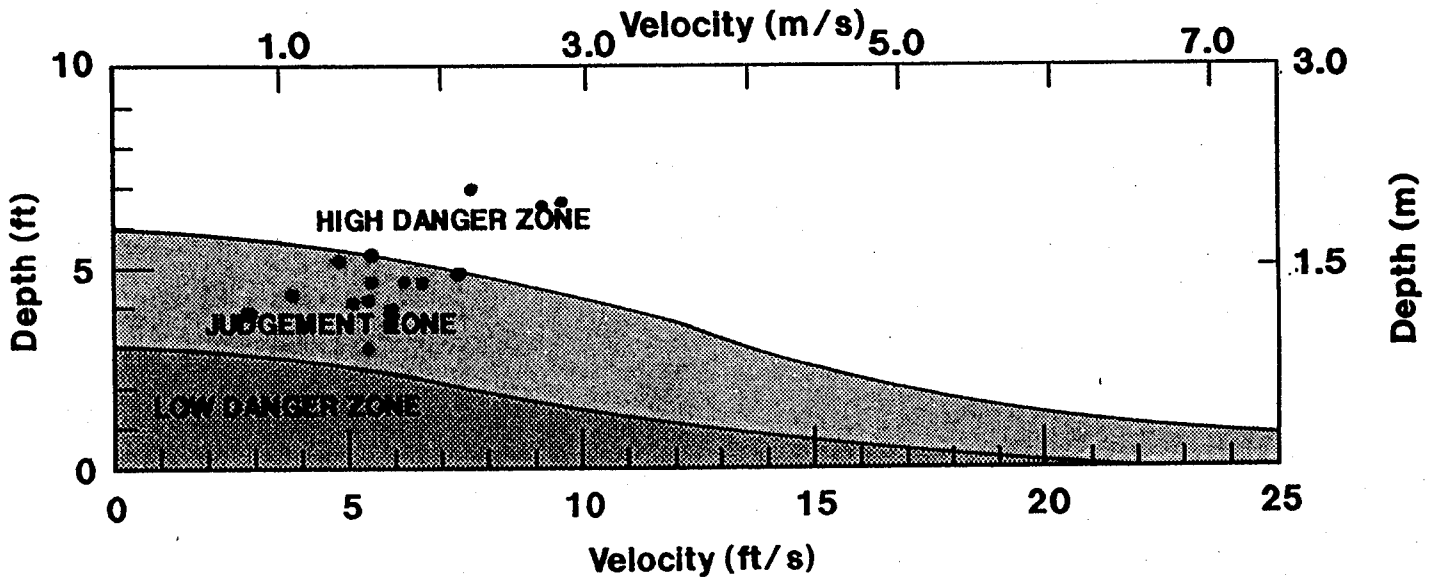


Figure 2. – Depth–velocity flood danger level relationship for houses built on foundations.

Source of Information: Bureau of Reclamation ACER Tech. Memo. No. 11, 1988

WT4 BREACH LOCATION NO. 1

PROFILE OF CRESTS AND TIMES FOR BREACH 1-SENARIO 2
BELOW WHITE TANKS FRS #4

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS	MIN. ELEV.	Y DEPTH (FT)
********	********	********	********	********	**********	**********		
.000	1053.04 *	58513	4.700	1.95	.00	.00		
.010	1038.25 *	58513	4.900	7.91	1034.00	3.25	1033.0	5.25
.019	1037.60 *	57860	4.900	8.01	1033.67	3.25		
.029	1036.99 *	57229	4.900	8.01	1033.33	3.25		
.038	1036.41 *	56604	4.900	7.90	1033.00	3.25		
.047	1035.87 *	55984	4.900	7.72	1032.67	3.25		
.057	1035.38 *	55375	4.900	7.49	1032.33	3.25		
.066	1034.92	54778	4.950	7.24	1032.00	3.25		
.075	1034.51	54458	4.950	6.98	1031.67	.00		
.085	1034.11	54779	4.950	6.74	1031.33	.00		
.094	1033.73	55064	4.950	6.54	1031.00	.00		
.103	1033.36	55316	4.950	6.37	1030.67	.00		
.113	1032.99	55534	4.950	6.21	1030.33	.00		
.122	1032.64	55722	4.950	6.07	1030.00	.00		
.131	1032.28	55880	4.950	5.95	1029.67	.00		
.141	1031.93	56006	4.950	5.87	1029.33	.00		
.150	1031.55	56102	4.950	5.87	1029.00	.00	1029.0	2.55
.215	1028.52	55875	4.950	5.53	1027.00	3.65		
.280	1025.66	53198	5.000	4.46	1025.00	4.90	1023.0	2.66
.342	1023.28	53938	5.000	4.52	1022.25	4.85		
.405	1020.88	53052	5.000	4.57	1019.50	4.65		
.467	1018.49	51677	5.050	4.65	1016.75	3.70		
.530	1016.19	52028	5.050	4.58	1014.00	3.60	1013.0	3.19
.557	1015.21	51592	5.050	4.66	1013.20	3.70		
.584	1014.23	50760	5.050	4.69	1012.40	3.75		
.611	1013.29	49839	5.100	4.69	1011.60	3.85		
.638	1012.36	50286	5.100	4.65	1010.80	3.95		
.665	1011.43	50483	5.100	4.62	1010.00	4.10		
.692	1010.51	50384	5.100	4.58	1009.20	4.90		
.719	1009.59	49849	5.100	4.53	1008.40	4.95		
.746	1008.68	48711	5.150	4.47	1007.60	5.00		
.773	1007.83	48821	5.150	4.28	1006.80	5.00		
.800	1006.78	49081	5.150	4.78	1006.00	5.05	1005.0	1.78
.847	1004.65	48645	5.150	4.81	1003.84	5.05		
.895	1002.53	47376	5.200	4.81	1001.68	5.05		
.942	1000.44	47886	5.200	4.79	999.53	5.05		
.989	998.32	47468	5.200	4.81	997.37	5.05		
1.037	996.21	46402	5.250	4.79	995.21	5.10		
1.084	994.12	46882	5.250	4.79	993.05	5.10		
1.132	992.01	46584	5.250	4.81	990.89	5.10		
1.179	989.90	45497	5.300	4.80	988.74	5.10		
1.226	987.82	46043	5.300	4.79	986.58	5.10		
1.274	985.72	45901	5.300	4.81	984.42	5.05		
1.321	983.62	44870	5.350	4.78	982.26	4.35		
1.368	981.54	45209	5.350	4.76	980.11	4.30		
1.416	979.47	45223	5.350	4.72	977.95	4.30		
1.463	977.35	44446	5.350	4.75	975.79	4.30		
1.511	975.31	44356	5.400	4.60	973.63	4.30		

PROFILE OF CRESTS AND TIMES FOR BREACH 1-SENARIO 2
BELOW WHITE TANKS FRS #4

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS		
********	********	********	********	********	**********	**********		
1.558	973.19	44499	5.400	4.73	971.47	4.30		
1.605	971.17	43864	5.400	4.43	969.32	4.30		
1.653	968.97	43608	5.450	4.79	967.16	4.30		
1.700	967.09	43749	5.450	4.08	965.00	4.30	964.0	3.09
1.755	965.19	42841	5.500	4.13	963.18	4.35		
1.809	963.33	42862	5.500	4.15	961.36	4.40		
1.864	961.44	42548	5.500	4.21	959.55	4.45		
1.918	959.55	41900	5.550	4.24	957.73	4.50		
1.973	957.67	42040	5.550	4.27	955.91	4.55		
2.027	955.78	41484	5.550	4.31	954.09	4.60		
2.082	953.90	41300	5.600	4.33	952.27	4.60		
2.136	952.02	41290	5.600	4.35	950.45	4.65		
2.191	950.12	40738	5.650	4.41	948.64	4.70		
2.245	948.27	40718	5.650	4.33	946.82	4.75		
2.300	946.35	40747	5.650	4.49	945.00	4.80	944.0	2.35
2.361	944.11	40179	5.700	4.47	942.78	4.85		
2.422	941.91	40316	5.700	4.44	940.56	4.90		
2.483	939.69	40250	5.700	4.44	938.33	4.95		
2.544	937.47	39630	5.750	4.40	936.11	5.00		
2.606	935.27	39951	5.750	4.40	933.89	5.00		
2.667	933.07	39565	5.750	4.35	931.67	5.05		
2.728	930.86	39421	5.800	4.36	929.44	5.10		
2.789	928.69	39463	5.800	4.25	927.22	5.15		
2.850	926.44	38730	5.850	4.38	925.00	5.20	923.0	3.44
2.914	923.97	39194	5.850	4.41	922.50	5.35		
2.978	921.47	38521	5.900	4.42	920.00	5.50		
3.043	918.97	38673	5.900	4.48	917.50	5.70		
3.107	916.44	37950	5.950	4.53	915.00	5.70		
3.171	913.90	38019	5.950	4.67	912.50	5.80		
3.235	911.38	37468	6.000	4.62	910.00	5.75		
3.299	908.79	37406	6.000	4.87	907.50	5.85		
3.363	906.35	37079	6.000	4.57	905.00	5.80		
3.427	903.62	36795	6.050	5.22	902.50	5.90		
3.492	901.40	36662	6.050	4.28	900.00	5.80		
3.556	898.31	36160	6.050	6.21	897.50	5.95		
3.620	896.63	36105	6.100	3.63	895.00	5.60	893.0	3.63
3.675	895.73	35067	6.150	3.59	894.13	5.65		
3.730	894.80	34816	6.150	3.59	893.25	5.70		
3.785	893.90	34057	6.200	3.55	892.38	5.75		
3.840	892.97	33822	6.250	3.55	891.50	5.85		
3.895	892.07	33242	6.250	3.52	890.63	5.90		
3.950	891.16	33028	6.300	3.53	889.75	6.00		
4.005	890.25	32561	6.300	3.51	888.88	6.00		
4.060	889.34	32376	6.350	3.52	888.00	6.05		
4.115	888.44	31972	6.350	3.51	887.13	6.10		
4.170	887.53	31822	6.350	3.52	886.25	6.10		
4.225	886.63	31450	6.400	3.52	885.38	6.15		
4.280	885.73	31338	6.400	3.53	884.50	6.15		

PROFILE OF CRESTS AND TIMES FOR BREACH 1-SENARIO 2
BELOW WHITE TANKS FRS #4

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS		
********	********	********	********	********	**********	**********		
4.335	884.83	30978	6.450	3.53	883.63	6.20		
4.390	883.93	30900	6.450	3.55	882.75	6.20		
4.445	883.16	30439	6.550	3.46	881.88	6.25		
4.500	882.74	29953	6.550	2.75	881.00	6.20	879.0	3.74
4.550	882.43	29323	6.600	2.72	880.70	6.20		
4.600	882.11	28917	6.650	2.71	880.40	6.25		
4.650	881.81	28387	6.650	2.68	880.10	6.30		
4.700	881.49	27993	6.700	2.67	879.80	6.30		
4.750	881.19	27555	6.700	2.65	879.50	6.35		
4.800	880.88	27152	6.750	2.63	879.20	6.35		
4.850	880.57	26793	6.800	2.61	878.90	6.40		
4.900	880.27	26377	6.800	2.59	878.60	6.40		
4.950	879.96	26082	6.850	2.58	878.30	6.45		
5.000	879.65	25736	6.850	2.56	878.00	6.50		
5.050	879.35	25410	6.900	2.55	877.70	6.50		
5.100	879.04	25125	6.950	2.53	877.40	6.55		
5.150	878.74	24807	6.950	2.52	877.10	6.55		
5.200	878.44	24536	7.000	2.51	876.80	6.60		
5.250	878.13	24276	7.000	2.50	876.50	6.60		
5.300	877.82	24008	7.050	2.48	876.20	6.65		
5.350	877.51	23801	7.100	2.47	875.90	6.70		
5.400	877.19	23591	7.100	2.46	875.60	6.70		
5.450	876.87	23360	7.150	2.48	875.30	6.75		
5.500	876.53	23124	7.200	2.57	875.00	6.75	873.0	3.53

* MAXIMUM WATER SURFACE ELEVATION (MAX ELEV) IS GREATER THAN HIGHEST ELEVATION OF TOP WIDTH (MAX HS) FOR THE FOLLOWING SECTIONS:

0

SECT NO	DISTANCE	MAX HS	MAX ELEV
1	.00	1050.00	1053.04
2	.01	1037.00	1038.25
3	.02	1036.67	1037.60
4	.03	1036.33	1036.99
5	.04	1036.00	1036.41
6	.05	1035.67	1035.87
7	.06	1035.33	1035.38

THE TOP WIDTH TABLES SHOULD BE EXTENDED UPWARD AT THESE SECTIONS WHICH WOULD PREVENT MAX ELEV EXCEEDING MAX HS.

1

HIGH DANGER ZONE - Occupants of most houses are in danger from floodwater.

JUDGEMENT ZONE - Danger level is based upon engineering judgement.

LOW DANGER ZONE - Occupants of most houses are not seriously in danger from flood water.

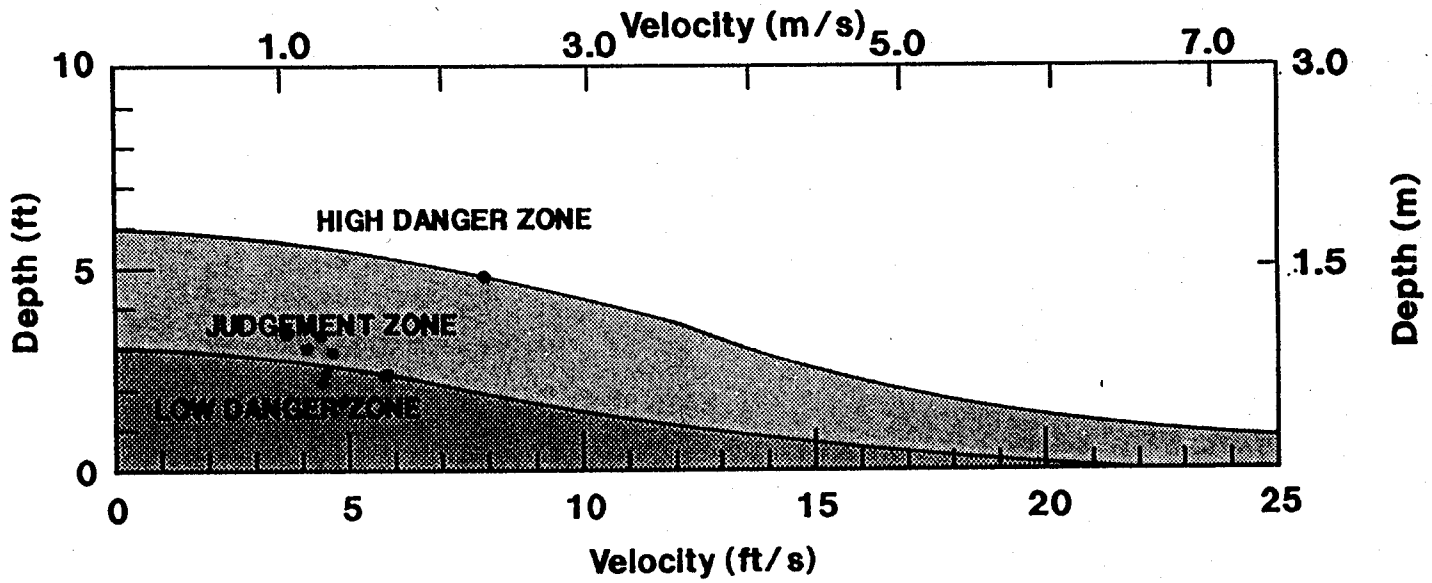


Figure 2. – Depth–velocity flood danger level relationship for houses built on foundations.

Source of Information: Bureau of Reclamation ACER Tech. Memo. No. 11, 1988

APPENDIX G

Hydrology

FLOOD CONTROL DISTRICT of MARICOPA COUNTY 1959

FLOOD CONTROL DISTRICT
of
Maricopa County

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

D. E. Sagramoso, P.E., Chief Engineer and General Manager

BOARD OF DIRECTORS

Betsey Bayless
James D. Bruner
Carole Carpenter
Tom Freestone
Ed Pastor

JUN 21 1990

RECEIVED

JUN 27 1990

Dr. Samuel E. Kao
AGK Engineers, Inc.
2255 North 44th Street, Suite 220
Phoenix, Arizona 85008

SUBJECT: Contract FCD 88-67, White Tanks 3 and 4
Dambreak Analysis

Dear Dr. Kao:

The purpose of this letter is to clarify the correct length of the emergency spillway for the White Tanks 3, and other related revised data.

During our last in-progress meeting, Mr. Hal Marron indicated that the recent topography shows an emergency spillway length of 800 feet. However, this figure is in contrast with a length of 1100 feet, used to develop the spillway rating curve. A field check confirmed that the emergency spillway is only 800 feet long.

The SCS documents showed that at the time of construction both spillway lengths were considered. However, while the spillway was excavated for 800 feet, the spillway rating curve was based on a length of 1100 feet. There is no documentation for a rating curve based on a spillway length of 800 feet. The only documented values are the spillway capacity discharges, i.e., 16150 cfs and 11750 cfs for spillway lengths of 1100 feet and 800 feet. Due to lack of better data, 11750/16150 = 0.73 was used to modify the discharge values for a new spillway rating curve, as listed below:

ELEVATION (feet):	1209	1211	1212	1214	1215
DISCHARGE (cfs) :	0	6257	11495	22700	28500

A HEC-1 model with the new rating table showed only a slight change in the calculated peak outflow. Since dam overtopping occurs, HEC-1 calculates one combined peak outflow for the spillway and overtopping, thus a smaller spillway length would not change the net discharge. To calculate the spillway discharge separately, the modified spillway rating curve was interpolated at the high water surface elevation of 1213.10, for a value of 17658 cfs. Under Plan 2, which is for an initially dry reservoir, the HEC-1 results showed a combined peak discharge of 24741 cfs. This number would indicate that as much as 7083 cfs would overtop the dam with a maximum depth of 1 foot.

For the purposes of this contract, dambreak due to overtopping is not possible since overflow would occur at the north end of the dam where potential for ponding is insignificant. As we discussed during our last meeting, two breach locations were proposed. It is recommended that the 7083 cfs be added to the breach outflow proposed in the vicinity of the principal spillway. Then the emergency spillway outflow of 17658 cfs should be added to the breach outflow located further to the southwest.

Please note that all of the new analyses were performed using a more recent version of HEC-1. This version utilizes certain changes for the Kinematic Wave option, and the results may be different from the previously submitted values. In particular, the new reservoir peak inflow is 41554 cfs. Also, the newly supplied data for the spillway rating curve and the reservoir stage/capacity data are to be used for the dambreak analyses. The revised HEC-1 printout is enclosed.

We would like to thank you for bringing this issue to our attention and should you have any questions, please call me at 262-1501.

Sincerely,

D. Khalili

Davar Khalili, Ph.D.
Hydrologist

Enclosure

Copy to: Mr. K. M. Hussain, P.E.

HYDROGRAPH AT STATION WT3
SUM OF 2 HYDROGRAPHS
PLAN 2, RATIO = 1.00

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0200	1	0.	1		0615	76	13933.	1		1430	151	44.	1		2045	226	1.
1		0205	2	0.	1		0620	77	13541.	1		1435	152	41.	1		2050	227	1.
1		0210	3	0.	1		0625	78	13033.	1		1440	153	37.	1		2055	228	1.
1		0215	4	0.	1		0630	79	12493.	1		1445	154	34.	1		2100	229	1.
1		0220	5	0.	1		0635	80	11973.	1		1450	155	32.	1		2105	230	1.
1		0225	6	0.	1		0640	81	11481.	1		1455	156	29.	1		2110	231	1.
1		0230	7	0.	1		0645	82	11005.	1		1500	157	27.	1		2115	232	1.
1		0235	8	0.	1		0650	83	10475.	1		1505	158	25.	1		2120	233	1.
1		0240	9	0.	1		0655	84	9892.	1		1510	159	24.	1		2125	234	1.
1		0245	10	0.	1		0700	85	9274.	1		1515	160	22.	1		2130	235	1.
1		0250	11	1.	1		0705	86	8647.	1		1520	161	20.	1		2135	236	1.
1		0255	12	1.	1		0710	87	8035.	1		1525	162	19.	1		2140	237	1.
1		0300	13	2.	1		0715	88	7478.	1		1530	163	18.	1		2145	238	1.
1		0305	14	4.	1		0720	89	6974.	1		1535	164	16.	1		2150	239	1.
1		0310	15	9.	1		0725	90	6493.	1		1540	165	15.	1		2155	240	1.
1		0315	16	22.	1		0730	91	6053.	1		1545	166	14.	1		2200	241	1.
1		0320	17	46.	1		0735	92	5635.	1		1550	167	13.	1		2205	242	1.
1		0325	18	79.	1		0740	93	5237.	1		1555	168	12.	1		2210	243	1.
1		0330	19	122.	1		0745	94	4862.	1		1600	169	11.	1		2215	244	1.
1		0335	20	174.	1		0750	95	4513.	1		1605	170	11.	1		2220	245	1.
1		0340	21	229.	1		0755	96	4185.	1		1610	171	10.	1		2225	246	1.
1		0345	22	234.	1		1000	97	3878.	1		1615	172	9.	1		2230	247	1.
1		0350	23	340.	1		1005	98	3605.	1		1620	173	9.	1		2235	248	1.
1		0355	24	521.	1		1010	99	3350.	1		1625	174	8.	1		2240	249	1.
1		0400	25	750.	1		1015	100	3092.	1		1630	175	8.	1		2245	250	1.
1		0405	26	1016.	1		1020	101	2836.	1		1635	176	7.	1		2250	251	1.
1		0410	27	1402.	1		1025	102	2593.	1		1640	177	7.	1		2255	252	1.
1		0415	28	2089.	1		1030	103	2360.	1		1645	178	6.	1		2300	253	1.
1		0420	29	3753.	1		1035	104	2192.	1		1650	179	6.	1		2305	254	1.
1		0425	30	7012.	1		1040	105	2022.	1		1655	180	6.	1		2310	255	1.
1		0430	31	11470.	1		1045	106	1875.	1		1700	181	5.	1		2315	256	1.
1		0435	32	16654.	1		1050	107	1741.	1		1705	182	5.	1		2320	257	1.
1		0440	33	21031.	1		1055	108	1618.	1		1710	183	5.	1		2325	258	1.
1		0445	34	23552.	1		1100	109	1504.	1		1715	184	5.	1		2330	259	1.
1		0450	35	25919.	1		1105	110	1401.	1		1720	185	5.	1		2335	260	1.
1		0455	36	27683.	1		1110	111	1306.	1		1725	186	4.	1		2340	261	1.
1		0500	37	29265.	1		1115	112	1216.	1		1730	187	4.	1		2345	262	1.
1		0505	38	30552.	1		1120	113	1130.	1		1735	188	4.	1		2350	263	1.
1		0510	39	35425.	1		1125	114	1040.	1		1740	189	4.	1		2355	264	1.
1		0515	40	41554.	1		1130	115	946.	1		1745	190	4.	2		0000	265	1.
1		0520	41	41535.	1		1135	116	854.	1		1750	191	4.	2		0005	266	1.
1		0525	42	41086.	1		1140	117	772.	1		1755	192	3.	2		0010	267	1.
1		0530	43	40355.	1		1145	118	701.	1		1800	193	3.	2		0015	268	1.
1		0535	44	39429.	1		1150	119	639.	1		1805	194	3.	2		0020	269	1.
1		0540	45	38406.	1		1155	120	581.	1		1810	195	3.	2		0025	270	1.
1		0545	46	37327.	1		1200	121	531.	1		1815	196	3.	2		0030	271	1.
1		0550	47	36226.	1		1205	122	486.	1		1820	197	3.	2		0035	272	1.
1		0555	48	35134.	1		1210	123	445.	1		1825	198	3.	2		0040	273	1.
1		0600	49	34095.	1		1215	124	407.	1		1830	199	3.	2		0045	274	1.
1		0605	50	33079.	1		1220	125	373.	1		1835	200	3.	2		0050	275	1.
1		0610	51	32112.	1		1225	126	342.	1		1840	201	3.	2		0055	276	1.
1		0615	52	31173.	1		1230	127	313.	1		1845	202	3.	2		0100	277	0.
1		0620	53	30302.	1		1235	128	288.	1		1850	203	2.	2		0105	278	0.
1		0625	54	29476.	1		1240	129	266.	1		1855	204	2.	2		0110	279	0.
1		0630	55	28641.	1		1245	130	247.	1		1900	205	2.	2		0115	280	0.
1		0635	56	27726.	1		1250	131	229.	1		1905	206	2.	2		0120	281	0.
1		0640	57	26747.	1		1255	132	212.	1		1910	207	2.	2		0125	282	0.
1		0645	58	25782.	1		1300	133	196.	1		1915	208	2.	2		0130	283	0.
1		0650	59	24873.	1		1305	134	180.	1		1920	209	2.	2		0135	284	0.
1		0655	60	23938.	1		1310	135	166.	1		1925	210	2.	2		0140	285	0.
1		0700	61	23139.	1		1315	136	152.	1		1930	211	2.	2		0145	286	0.
1		0705	62	22343.	1		1320	137	140.	1		1935	212	2.	2		0150	287	0.
1		0710	63	21605.	1		1325	138	129.	1		1940	213	2.	2		0155	288	0.
1		0715	64	20907.	1		1330	139	118.	1		1945	214	2.	2		0200	289	0.
1		0720	65	20220.	1		1335	140	109.	1		1950	215	2.	2		0205	290	0.
1		0725	66	19537.	1		1340	141	100.	1		1955	216	2.	2		0210	291	0.
1		0730	67	18855.	1		1345	142	92.	1		2000	217	2.	2		0215	292	0.
1		0735	68	18180.	1		1350	143	84.	1		2005	218	2.	2		0220	293	0.
1		0740	69	17523.	1		1355	144	77.	1		2010	219	2.	2		0225	294	0.
1		0745	70	16897.	1		1400	145	71.	1		2015	220	2.	2		0230	295	0.
1		0750	71	16314.	1		1405	146	66.	1		2020	221	2.	2		0235	296	0.
1		0755	72	15773.	1		1410	147	61.	1		2025	222	1.	2		0240	297	0.
1		0300	73	15278.	1		1415	148	56.	1		2030	223	1.	2		0245	298	0.
1		0305	74	14823.	1		1420	149	52.	1		2035	224	1.	2		0250	299	0.
1		0310	75	14398.	1		1425	150	48.	1		2040	225	1.	2		0255	300	0.

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
41554.	3.25	(CFS)	19531.	5034.	4349.	4849.
		(INCHES)	8.517	8.782	8.782	8.782
		(AC-FT)	9683.	9985.	9985.	9985.

CUMULATIVE AREA = 21.32 SQ MI

HYDROGRAPH AT STATION WT4
SUM OF 4 HYDROGRAPHS
PLAN 2, RATIO = .50

DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW
15 MAY 1200	1	0.	15 MAY 1915	76	5033.	17 MAY 0000	151	16.	17 MAY 0545	225	0.
15 MAY 1205	2	0.	15 MAY 1920	77	5752.	17 MAY 0005	152	15.	17 MAY 0550	227	0.
15 MAY 1210	3	0.	15 MAY 1925	78	5539.	17 MAY 0010	153	14.	17 MAY 0555	229	0.
15 MAY 1215	4	0.	15 MAY 1930	79	5410.	17 MAY 0015	154	13.	17 MAY 0700	229	0.
15 MAY 1220	5	0.	15 MAY 1935	80	5203.	17 MAY 0050	155	12.	17 MAY 0705	230	0.
15 MAY 1225	6	0.	15 MAY 1940	81	4994.	17 MAY 0055	156	11.	17 MAY 0710	231	0.
15 MAY 1230	7	0.	15 MAY 1945	82	4797.	17 MAY 0100	157	10.	17 MAY 0715	232	0.
15 MAY 1235	8	0.	15 MAY 1950	83	4607.	17 MAY 0105	158	10.	17 MAY 0720	233	0.
15 MAY 1240	9	0.	15 MAY 1955	84	4421.	17 MAY 0110	159	9.	17 MAY 0725	234	0.
15 MAY 1245	10	0.	16 MAY 1900	85	4172.	17 MAY 0115	160	8.	17 MAY 0730	235	0.
15 MAY 1250	11	0.	16 MAY 1905	86	3708.	17 MAY 0120	161	8.	17 MAY 0735	236	0.
15 MAY 1255	12	0.	16 MAY 1910	87	3208.	17 MAY 0125	162	7.	17 MAY 0740	237	0.
15 MAY 1300	13	0.	16 MAY 1915	88	2830.	17 MAY 0130	163	7.	17 MAY 0745	238	0.
15 MAY 1305	14	0.	16 MAY 1920	89	2543.	17 MAY 0135	164	6.	17 MAY 0750	239	0.
15 MAY 1310	15	0.	16 MAY 1925	90	2282.	17 MAY 0140	165	6.	17 MAY 0755	240	0.
15 MAY 1315	16	0.	16 MAY 1930	91	1771.	17 MAY 0145	166	6.	17 MAY 0800	241	0.
15 MAY 1320	17	1.	16 MAY 1935	92	1581.	17 MAY 0150	167	5.	17 MAY 0805	242	0.
15 MAY 1325	18	2.	16 MAY 1940	93	1454.	17 MAY 0155	168	5.	17 MAY 0810	243	0.
15 MAY 1330	19	3.	16 MAY 1945	94	1327.	17 MAY 0200	169	5.	17 MAY 0815	244	0.
15 MAY 1335	20	6.	16 MAY 1950	95	1210.	17 MAY 0205	170	4.	17 MAY 0820	245	0.
15 MAY 1340	21	9.	16 MAY 1955	96	1115.	17 MAY 0210	171	4.	17 MAY 0825	246	0.
15 MAY 1345	22	12.	16 MAY 2000	97	1023.	17 MAY 0215	172	4.	17 MAY 0830	247	0.
15 MAY 1350	23	17.	16 MAY 2005	98	940.	17 MAY 0220	173	4.	17 MAY 0835	248	0.
15 MAY 1355	24	22.	16 MAY 2010	99	863.	17 MAY 0225	174	3.	17 MAY 0840	249	0.
15 MAY 1400	25	27.	16 MAY 2015	100	793.	17 MAY 0230	175	3.	17 MAY 0845	250	0.
15 MAY 1405	26	48.	16 MAY 2020	101	728.	17 MAY 0235	176	3.	17 MAY 0850	251	0.
15 MAY 1410	27	100.	16 MAY 2025	102	669.	17 MAY 0240	177	3.	17 MAY 0855	252	0.
15 MAY 1415	28	221.	16 MAY 2030	103	615.	17 MAY 0245	178	3.	17 MAY 0900	253	0.
15 MAY 1420	29	405.	16 MAY 2035	104	565.	17 MAY 0250	179	2.	17 MAY 0905	254	0.
15 MAY 1425	30	777.	16 MAY 2040	105	517.	17 MAY 0255	180	2.	17 MAY 0910	255	0.
15 MAY 1430	31	3433.	16 MAY 2045	106	472.	17 MAY 0300	181	2.	17 MAY 0915	256	0.
15 MAY 1435	32	4634.	16 MAY 2050	107	438.	17 MAY 0305	182	2.	17 MAY 0920	257	0.
15 MAY 1440	33	5632.	16 MAY 2055	108	399.	17 MAY 0310	183	2.	17 MAY 0925	258	0.
15 MAY 1445	34	7165.	16 MAY 2100	109	370.	17 MAY 0315	184	2.	17 MAY 0930	259	0.
15 MAY 1450	35	14361.	16 MAY 2105	110	339.	17 MAY 0320	185	2.	17 MAY 0935	260	0.
15 MAY 1455	36	20309.	16 MAY 2110	111	315.	17 MAY 0325	186	2.	17 MAY 0940	261	0.
15 MAY 1500	37	22491.	16 MAY 2115	112	289.	17 MAY 0330	187	2.	17 MAY 0945	262	0.
15 MAY 1505	38	22824.	16 MAY 2120	113	269.	17 MAY 0335	188	1.	17 MAY 0950	263	0.
15 MAY 1510	39	22252.	16 MAY 2125	114	247.	17 MAY 0340	189	1.	17 MAY 0955	264	0.
15 MAY 1515	40	21351.	16 MAY 2130	115	230.	17 MAY 0345	190	1.	17 MAY 1000	265	0.
15 MAY 1520	41	20355.	16 MAY 2135	116	211.	17 MAY 0350	191	1.	17 MAY 1005	266	0.
15 MAY 1525	42	19332.	16 MAY 2140	117	197.	17 MAY 0355	192	1.	17 MAY 1010	267	0.
15 MAY 1530	43	18327.	16 MAY 2145	118	181.	17 MAY 0400	193	1.	17 MAY 1015	268	0.
15 MAY 1535	44	17279.	16 MAY 2150	119	169.	17 MAY 0405	194	1.	17 MAY 1020	269	0.
15 MAY 1540	45	16214.	16 MAY 2155	120	155.	17 MAY 0410	195	1.	17 MAY 1025	270	0.
15 MAY 1545	46	15270.	16 MAY 2200	121	144.	17 MAY 0415	196	1.	17 MAY 1030	271	0.
15 MAY 1550	47	14207.	16 MAY 2205	122	133.	17 MAY 0420	197	1.	17 MAY 1035	272	0.
15 MAY 1555	48	13203.	16 MAY 2210	123	124.	17 MAY 0425	198	1.	17 MAY 1040	273	0.
15 MAY 1600	49	13324.	16 MAY 2215	124	114.	17 MAY 0430	199	1.	17 MAY 1045	274	0.
15 MAY 1605	50	12900.	16 MAY 2220	125	107.	17 MAY 0435	200	1.	17 MAY 1050	275	0.
15 MAY 1610	51	12537.	16 MAY 2225	126	98.	17 MAY 0440	201	1.	17 MAY 1055	276	0.
15 MAY 1615	52	12227.	16 MAY 2230	127	90.	17 MAY 0445	202	1.	17 MAY 1100	277	0.
15 MAY 1620	53	11953.	16 MAY 2235	128	86.	17 MAY 0450	203	1.	17 MAY 1105	278	0.
15 MAY 1625	54	11704.	16 MAY 2240	129	81.	17 MAY 0455	204	1.	17 MAY 1110	279	0.
15 MAY 1630	55	11438.	16 MAY 2245	130	74.	17 MAY 0500	205	1.	17 MAY 1115	280	0.
15 MAY 1635	56	11227.	16 MAY 2250	131	70.	17 MAY 0505	206	1.	17 MAY 1120	281	0.
15 MAY 1640	57	10967.	16 MAY 2255	132	65.	17 MAY 0510	207	1.	17 MAY 1125	282	0.
15 MAY 1645	58	10675.	16 MAY 2300	133	61.	17 MAY 0515	208	1.	17 MAY 1130	283	0.
15 MAY 1650	59	10349.	16 MAY 2305	134	56.	17 MAY 0520	209	1.	17 MAY 1135	284	0.
15 MAY 1655	60	9985.	16 MAY 2310	135	52.	17 MAY 0525	210	1.	17 MAY 1140	285	0.
15 MAY 1700	61	9622.	16 MAY 2315	136	49.	17 MAY 0530	211	1.	17 MAY 1145	286	0.
15 MAY 1705	62	9245.	16 MAY 2320	137	45.	17 MAY 0535	212	1.	17 MAY 1150	287	0.
15 MAY 1710	63	8877.	16 MAY 2325	138	42.	17 MAY 0540	213	1.	17 MAY 1155	288	0.
15 MAY 1715	64	8527.	16 MAY 2330	139	40.	17 MAY 0545	214	0.	17 MAY 1200	289	0.
15 MAY 1720	65	8200.	16 MAY 2335	140	37.	17 MAY 0550	215	0.	17 MAY 1205	290	0.
15 MAY 1725	66	8026.	16 MAY 2340	141	35.	17 MAY 0555	216	0.	17 MAY 1210	291	0.
15 MAY 1730	67	8003.	16 MAY 2345	142	33.	17 MAY 0600	217	0.	17 MAY 1215	292	0.
15 MAY 1735	68	7891.	16 MAY 2350	143	33.	17 MAY 0605	218	0.	17 MAY 1220	293	0.
15 MAY 1740	69	7371.	16 MAY 2355	144	29.	17 MAY 0610	219	0.	17 MAY 1225	294	0.
15 MAY 1745	70	7596.	17 MAY 0000	145	27.	17 MAY 0615	220	0.	17 MAY 1230	295	0.
15 MAY 1750	71	7303.	17 MAY 0005	146	24.	17 MAY 0620	221	0.	17 MAY 1235	296	0.
15 MAY 1755	72	7018.	17 MAY 0010	147	23.	17 MAY 0625	222	0.	17 MAY 1240	297	0.
15 MAY 1800	73	6747.	17 MAY 0015	148	21.	17 MAY 0630	223	0.	17 MAY 1245	298	0.
15 MAY 1805	74	6490.	17 MAY 0020	149	18.	17 MAY 0635	224	0.	17 MAY 1250	299	0.
15 MAY 1810	75	6223.	17 MAY 0025	150	17.	17 MAY 0640	225	0.	17 MAY 1255	300	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
22824.	3.08		8552.	2172.	2092.	2092.
		(INCHES)	4.503	4.980	4.980	4.980
		(AC-FT)	4241.	4507.	4307.	4307.

CUMULATIVE AREA = 16.22 SQ MI

77 TOTAL 15 min

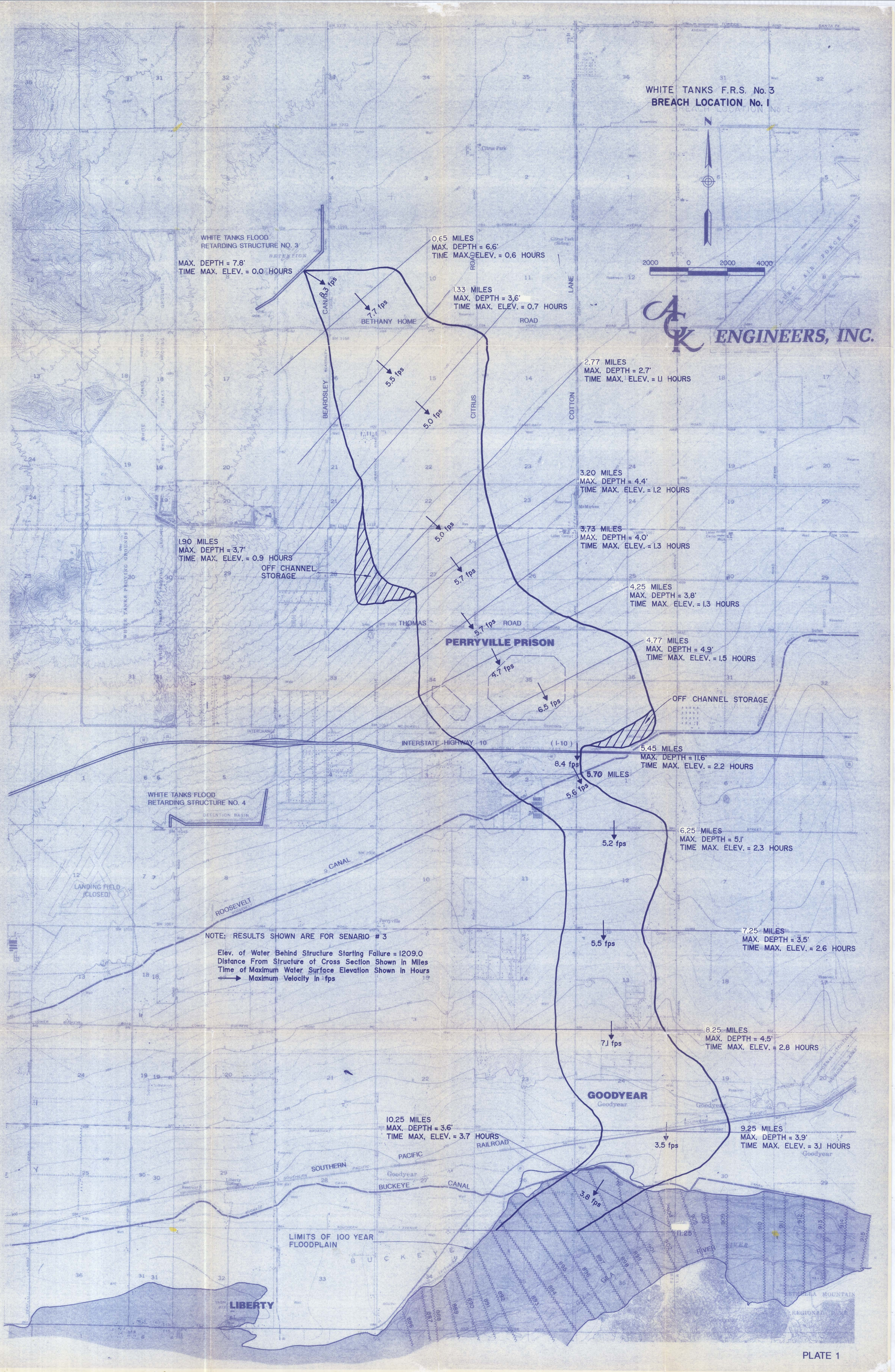

WHITE TANKS F.R.S. No. 3
BREACH LOCATION No. I
N
2000 0 2000 4000
ACK ENGINEERS, INC.
WHITE TANKS FLOOD RETARDING STRUCTURE NO. 3
MAX. DEPTH = 7.8'
TIME MAX. ELEV. = 0.0 HOURS
0.65 MILES
MAX. DEPTH = 6.6'
TIME MAX. ELEV. = 0.6 HOURS
1.33 MILES
MAX. DEPTH = 3.6'
TIME MAX. ELEV. = 0.7 HOURS
2.77 MILES
MAX. DEPTH = 2.7'
TIME MAX. ELEV. = 1.1 HOURS
3.20 MILES
MAX. DEPTH = 4.4'
TIME MAX. ELEV. = 1.2 HOURS
3.73 MILES
MAX. DEPTH = 4.0'
TIME MAX. ELEV. = 1.3 HOURS
4.25 MILES
MAX. DEPTH = 3.8'
TIME MAX. ELEV. = 1.3 HOURS
4.77 MILES
MAX. DEPTH = 4.9'
TIME MAX. ELEV. = 1.5 HOURS
5.45 MILES
MAX. DEPTH = 11.6'
TIME MAX. ELEV. = 2.2 HOURS
5.70 MILES
6.25 MILES
MAX. DEPTH = 5.1'
TIME MAX. ELEV. = 2.3 HOURS
7.25 MILES
MAX. DEPTH = 3.5'
TIME MAX. ELEV. = 2.6 HOURS
8.25 MILES
MAX. DEPTH = 4.5'
TIME MAX. ELEV. = 2.8 HOURS
9.25 MILES
MAX. DEPTH = 3.9'
TIME MAX. ELEV. = 3.1 HOURS
10.25 MILES
MAX. DEPTH = 3.6'
TIME MAX. ELEV. = 3.7 HOURS
11.25
1.90 MILES
MAX. DEPTH = 3.7'
TIME MAX. ELEV. = 0.9 HOURS
OFF CHANNEL STORAGE
OFF CHANNEL STORAGE
8.3 fps
7.7 fps
5.5 fps
5.0 fps
5.0 fps
5.7 fps
5.7 fps
4.7 fps
6.5 fps
8.4 fps
5.6 fps
5.2 fps
5.5 fps
7.1 fps
3.5 fps
3.8 fps
BETHANY HOME
PERRYVILLE PRISON
GOODYEAR
LIBERTY
INTERSTATE HIGHWAY 10 (I-10)
WHITE TANKS FLOOD RETARDING STRUCTURE NO. 4
LANDING FIELD (CLOSED)
ROOSEVELT CANAL
BEARDSLEY
CITRUS
COTTON
THOMAS ROAD
BUCKEYE CANAL
SOUTHERN PACIFIC RAILROAD
LIMITS OF 100 YEAR FLOODPLAIN
GILA RIVER
NOTE: RESULTS SHOWN ARE FOR SENARIO # 3
Elev. of Water Behind Structure Starting Failure = 1209.0
Distance From Structure of Cross Section Shown in Miles
Time of Maximum Water Surface Elevation Shown in Hours
Maximum Velocity in fps

PLATE 1

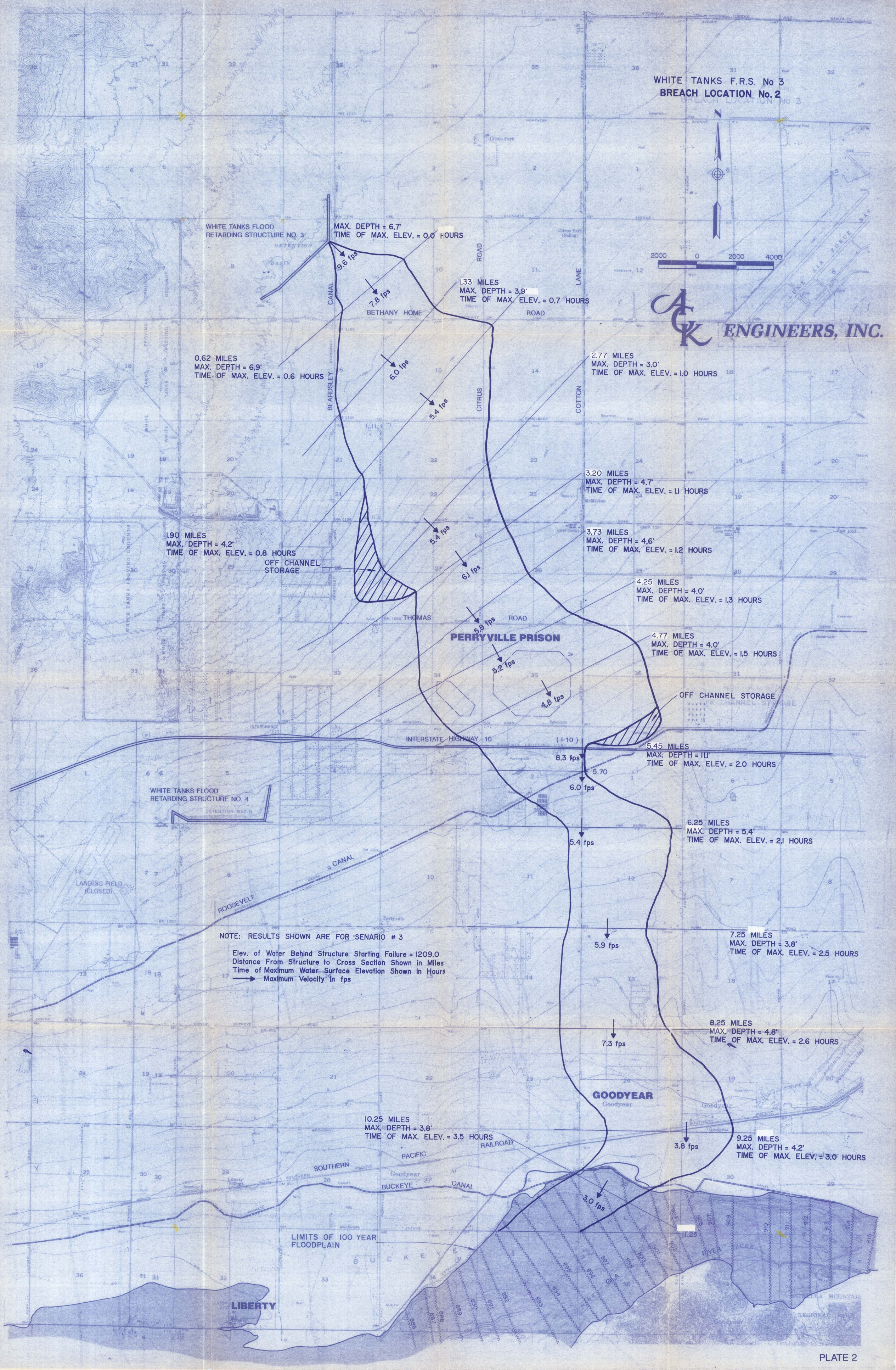

WHITE TANKS F.R.S. No 3
BREACH LOCATION No. 2
N
2000 0 2000 4000
ACK ENGINEERS, INC.
WHITE TANKS FLOOD RETARDING STRUCTURE NO. 3
MAX. DEPTH = 6.7'
TIME OF MAX. ELEV. = 0.0 HOURS
9.6 fps
7.8 fps
BETHANY HOME ROAD
1.33 MILES
MAX. DEPTH = 3.9'
TIME OF MAX. ELEV. = 0.7 HOURS
0.62 MILES
MAX. DEPTH = 6.9'
TIME OF MAX. ELEV. = 0.6 HOURS
6.0 fps
5.4 fps
2.77 MILES
MAX. DEPTH = 3.0'
TIME OF MAX. ELEV. = 1.0 HOURS
3.20 MILES
MAX. DEPTH = 4.7'
TIME OF MAX. ELEV. = 1.1 HOURS
1.90 MILES
MAX. DEPTH = 4.2'
TIME OF MAX. ELEV. = 0.8 HOURS
OFF CHANNEL STORAGE
5.4 fps
6.1 fps
3.73 MILES
MAX. DEPTH = 4.6'
TIME OF MAX. ELEV. = 1.2 HOURS
4.25 MILES
MAX. DEPTH = 4.0'
TIME OF MAX. ELEV. = 1.3 HOURS
THOMAS ROAD
5.8 fps
PERRYVILLE PRISON
5.2 fps
4.77 MILES
MAX. DEPTH = 4.0'
TIME OF MAX. ELEV. = 1.5 HOURS
4.8 fps
OFF CHANNEL STORAGE
INTERSTATE HIGHWAY 10 (I-10)
8.3 fps
5.70
6.0 fps
5.45 MILES
MAX. DEPTH = 11.1'
TIME OF MAX. ELEV. = 2.0 HOURS
WHITE TANKS FLOOD RETARDING STRUCTURE NO. 4
6.25 MILES
MAX. DEPTH = 5.4'
TIME OF MAX. ELEV. = 2.1 HOURS
5.4 fps
CANAL
LANDING FIELD (CLOSED)
ROOSEVELT
NOTE: RESULTS SHOWN ARE FOR SENARIO # 3
Elev. of Water Behind Structure Starting Failure = 1209.0
Distance From Structure to Cross Section Shown in Miles
Time of Maximum Water Surface Elevation Shown in Hours
Maximum Velocity in fps
5.9 fps
7.25 MILES
MAX. DEPTH = 3.8'
TIME OF MAX. ELEV. = 2.5 HOURS
7.3 fps
8.25 MILES
MAX. DEPTH = 4.8'
TIME OF MAX. ELEV. = 2.6 HOURS
GOODYEAR
10.25 MILES
MAX. DEPTH = 3.8'
TIME OF MAX. ELEV. = 3.5 HOURS
SOUTHERN PACIFIC RAILROAD
3.8 fps
9.25 MILES
MAX. DEPTH = 4.2'
TIME OF MAX. ELEV. = 3.0 HOURS
3.0 fps
BUCKEYE CANAL
LIMITS OF 100 YEAR FLOODPLAIN
11.25
GILA RIVER
LIBERTY

PLATE 2

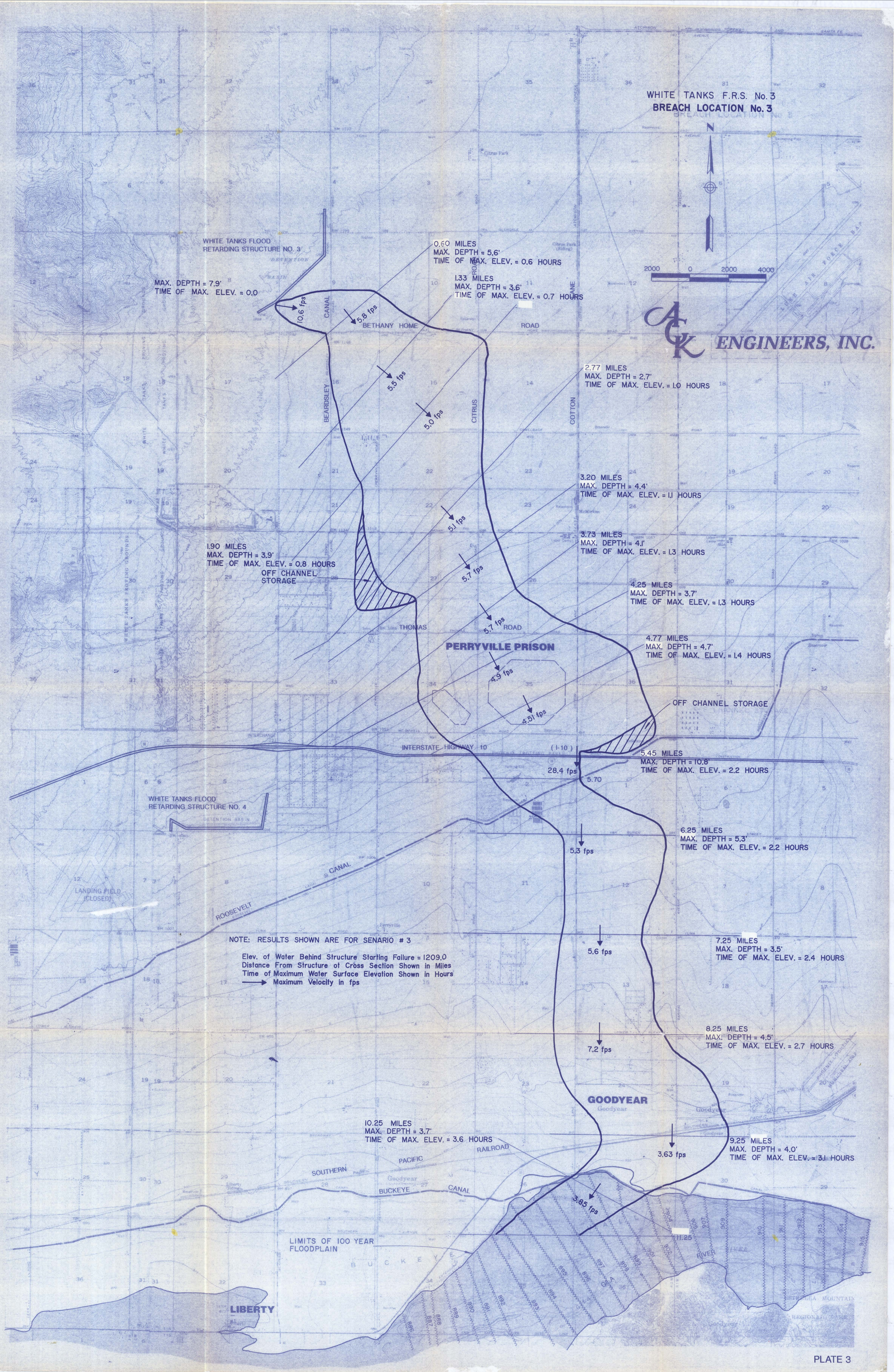
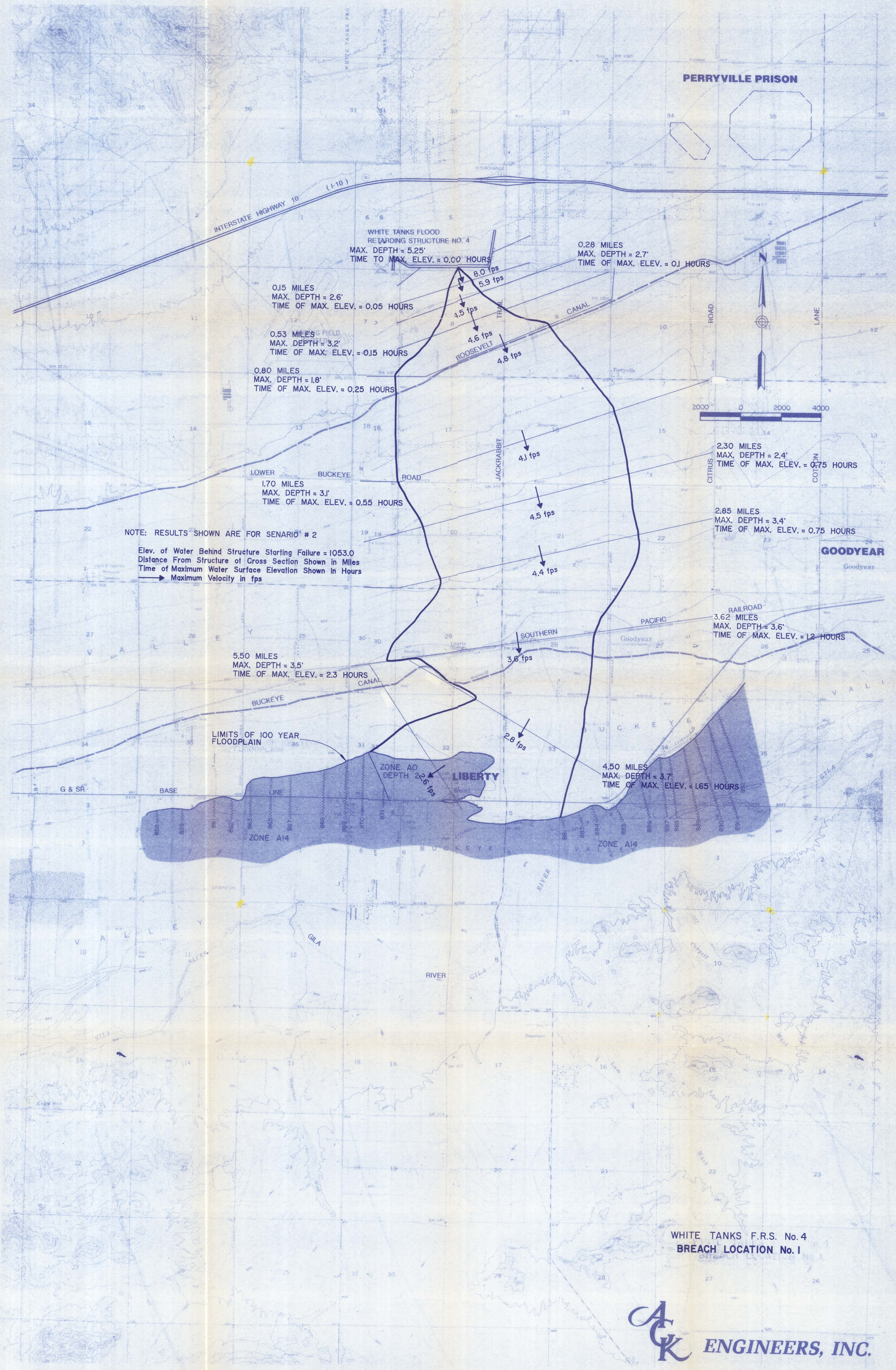

WHITE TANKS F.R.S. No. 3
BREACH LOCATION No. 3
N
2000 0 2000 4000
ACK ENGINEERS, INC.
WHITE TANKS FLOOD RETARDING STRUCTURE NO. 3
MAX. DEPTH = 7.9'
TIME OF MAX. ELEV. = 0.0
0.60 MILES
MAX. DEPTH = 5.6'
TIME OF MAX. ELEV. = 0.6 HOURS
1.33 MILES
MAX. DEPTH = 3.6'
TIME OF MAX. ELEV. = 0.7 HOURS
2.77 MILES
MAX. DEPTH = 2.7'
TIME OF MAX. ELEV. = 1.0 HOURS
3.20 MILES
MAX. DEPTH = 4.4'
TIME OF MAX. ELEV. = 1.1 HOURS
3.73 MILES
MAX. DEPTH = 4.1'
TIME OF MAX. ELEV. = 1.3 HOURS
4.25 MILES
MAX. DEPTH = 3.7'
TIME OF MAX. ELEV. = 1.3 HOURS
4.77 MILES
MAX. DEPTH = 4.7'
TIME OF MAX. ELEV. = 1.4 HOURS
5.45 MILES
MAX. DEPTH = 10.8'
TIME OF MAX. ELEV. = 2.2 HOURS
6.25 MILES
MAX. DEPTH = 5.3'
TIME OF MAX. ELEV. = 2.2 HOURS
7.25 MILES
MAX. DEPTH = 3.5'
TIME OF MAX. ELEV. = 2.4 HOURS
8.25 MILES
MAX. DEPTH = 4.5'
TIME OF MAX. ELEV. = 2.7 HOURS
9.25 MILES
MAX. DEPTH = 4.0'
TIME OF MAX. ELEV. = 3.1 HOURS
10.25 MILES
MAX. DEPTH = 3.7'
TIME OF MAX. ELEV. = 3.6 HOURS
11.25
1.90 MILES
MAX. DEPTH = 3.9'
TIME OF MAX. ELEV. = 0.8 HOURS
OFF CHANNEL STORAGE
OFF CHANNEL STORAGE
10.6 fps
5.8 fps
5.5 fps
5.0 fps
5.1 fps
5.7 fps
5.7 fps
4.9 fps
4.51 fps
28.4 fps
5.70
5.3 fps
5.6 fps
7.2 fps
3.63 fps
3.85 fps
BETHANY HOME ROAD
BEARDSLEY
CITRUS
COTTON
THOMAS ROAD
PERRYVILLE PRISON
INTERSTATE HIGHWAY 10 (I-10)
WHITE TANKS FLOOD RETARDING STRUCTURE NO. 4
DETENTION BASIN
ROOSEVELT CANAL
LANDING FIELD (CLOSED)
NOTE: RESULTS SHOWN ARE FOR SENARIO # 3
Elev. of Water Behind Structure Starting Failure = 1209.0
Distance From Structure ot Cross Section Shown in Miles
Time of Maximum Water Surface Elevation Shown in Hours
Maximum Velocity in fps
GOODYEAR
SOUTHERN PACIFIC RAILROAD
BUCKEYE CANAL
LIMITS OF 100 YEAR FLOODPLAIN
LIBERTY
GILA RIVER

PLATE 3



ACK ENGINEERS, INC.

PLATE 4

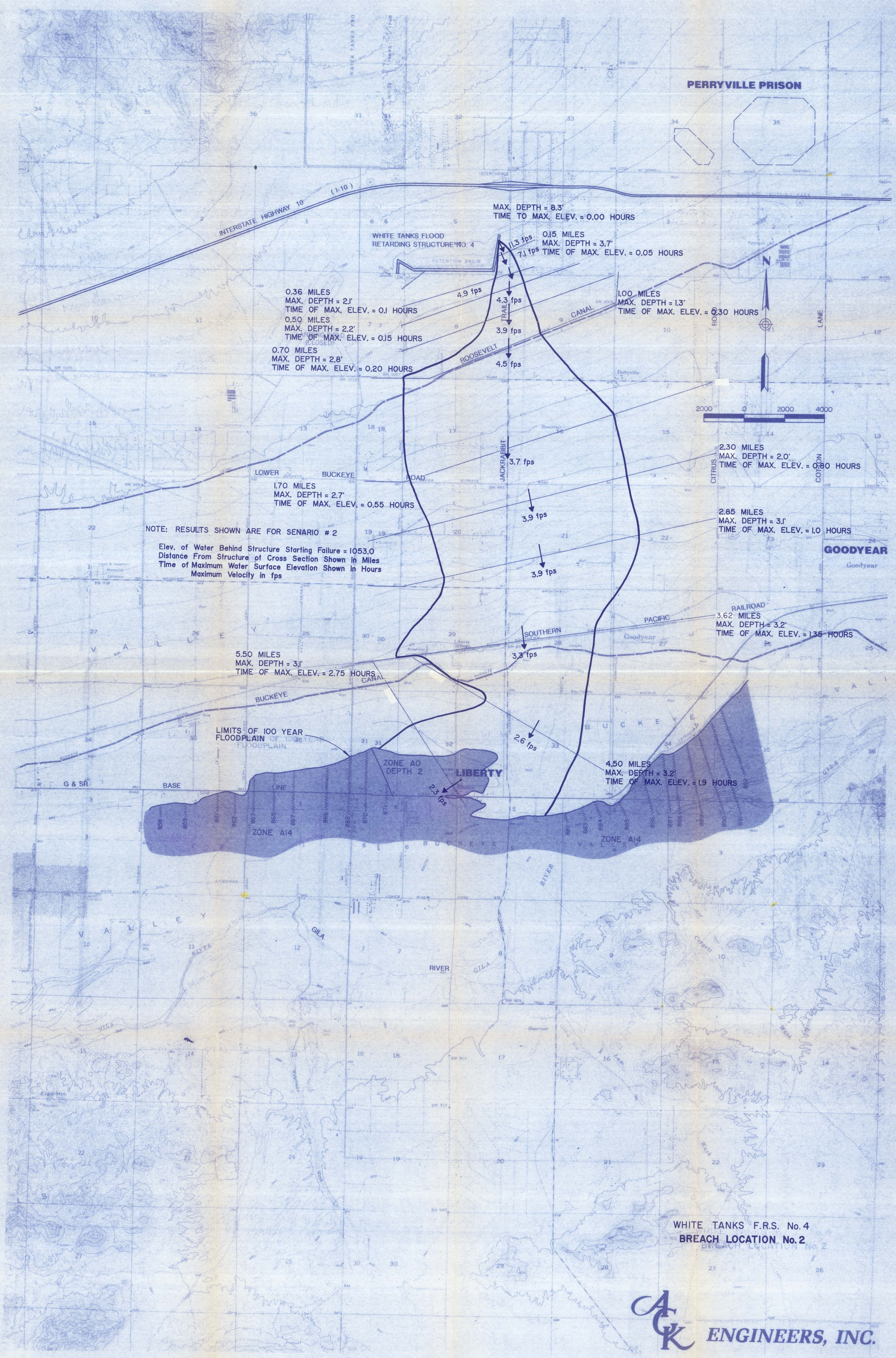
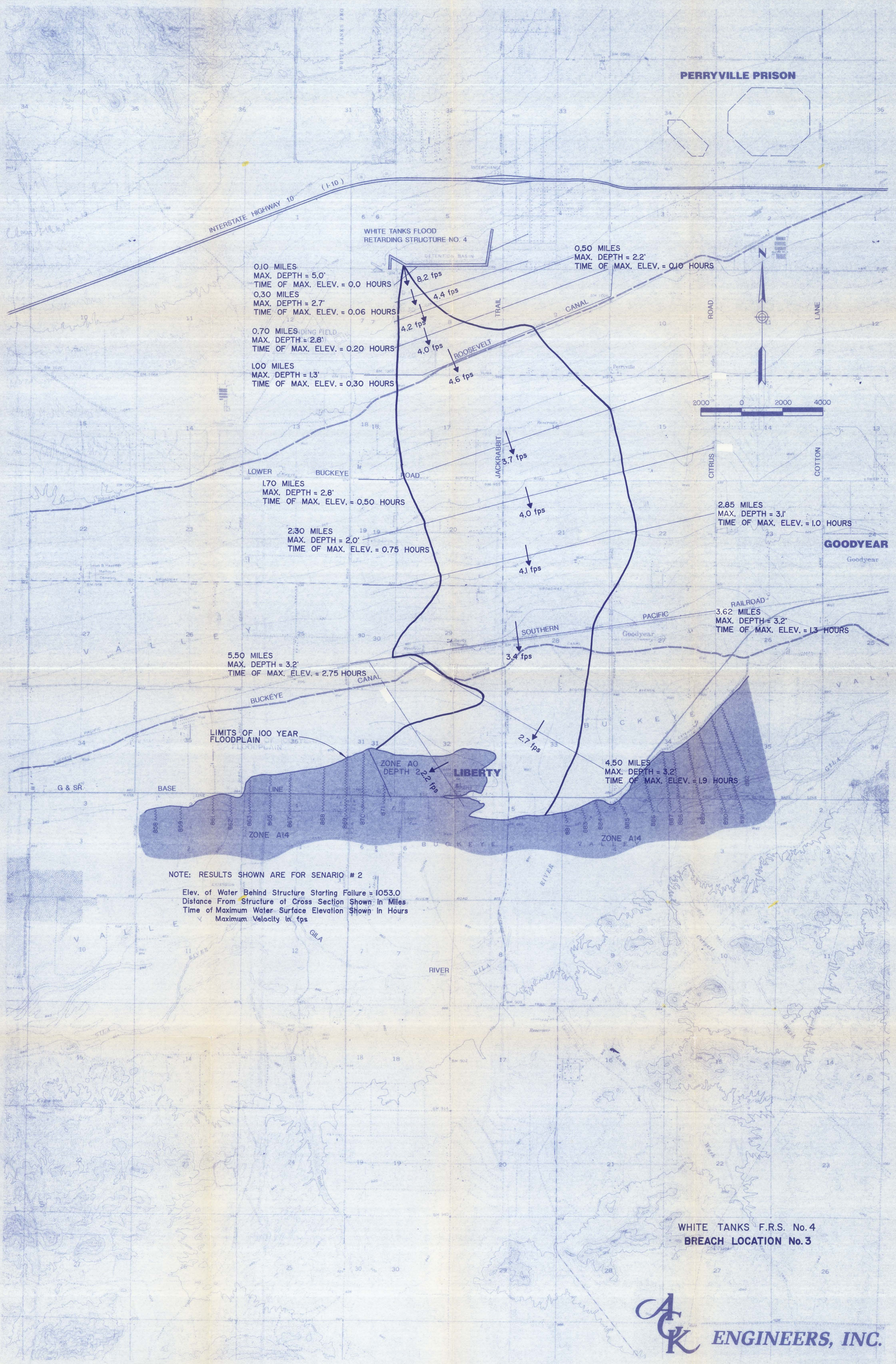

PERRYVILLE PRISON
INTERSTATE HIGHWAY 10 (I-10)
WHITE TANKS FLOOD RETARDING STRUCTURE NO. 4
MAX. DEPTH = 8.3'
TIME TO MAX. ELEV. = 0.00 HOURS
11.3 fps
7.1 fps
0.15 MILES
MAX. DEPTH = 3.7'
TIME OF MAX. ELEV. = 0.05 HOURS
4.9 fps
4.3 fps
3.9 fps
4.5 fps
3.7 fps
3.9 fps
3.9 fps
3.3 fps
2.6 fps
2.3 fps
0.36 MILES
MAX. DEPTH = 2.1'
TIME OF MAX. ELEV. = 0.1 HOURS
0.50 MILES
MAX. DEPTH = 2.2'
TIME OF MAX. ELEV. = 0.15 HOURS
0.70 MILES
MAX. DEPTH = 2.8'
TIME OF MAX. ELEV. = 0.20 HOURS
1.00 MILES
MAX. DEPTH = 1.3'
TIME OF MAX. ELEV. = 0.30 HOURS
1.70 MILES
MAX. DEPTH = 2.7'
TIME OF MAX. ELEV. = 0.55 HOURS
2.30 MILES
MAX. DEPTH = 2.0'
TIME OF MAX. ELEV. = 0.80 HOURS
2.85 MILES
MAX. DEPTH = 3.1'
TIME OF MAX. ELEV. = 1.0 HOURS
3.62 MILES
MAX. DEPTH = 3.2'
TIME OF MAX. ELEV. = 1.35 HOURS
4.50 MILES
MAX. DEPTH = 3.2'
TIME OF MAX. ELEV. = 1.9 HOURS
5.50 MILES
MAX. DEPTH = 3.1'
TIME OF MAX. ELEV. = 2.75 HOURS
NOTE: RESULTS SHOWN ARE FOR SENARIO # 2
Elev. of Water Behind Structure Starting Failure = 1053.0
Distance From Structure at Cross Section Shown in Miles
Time of Maximum Water Surface Elevation Shown in Hours
Maximum Velocity in fps
LIMITS OF 100 YEAR FLOODPLAIN
ZONE AO DEPTH 2
ZONE A14
ZONE A14
LIBERTY
GOODYEAR
2000 0 2000 4000
WHITE TANKS F.R.S. No. 4
BREACH LOCATION No. 2
ACK ENGINEERS, INC.

PLATE 5



ACK ENGINEERS, INC.

PLATE 6