

0	0	IPESTINT	INTERP
0	0	0	1.0
			NOSTOP HDRYBOT LIMOP MINTHICK

#FINAL_BASELINE_6-11

#23 June 2011

FREE

HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/ibound1" 1 0 13426

HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/ibound2" 1 0 13426

HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/ibound3" 1 0 13426

HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/ibound4" 1 0 13426

HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/ibound5" 1 0 13426

HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/ibound6" 1 0 13426

-999.000000

HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/StartHead1" 1 0 13426

HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/StartHead2" 1 0 13426

HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/StartHead3" 1 0 13426

HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/StartHead4" 1 0 13426

HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/StartHead5" 1 0 13426

HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/StartHead6" 1 0 13426

#GMS_HDF5_01

1745 40

1745

0

0

GMS_HDF5_01 "FINAL_MEDK_6-11.h5" "Specified Head" 1

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329998.70383702 1.0 no_chdf0
#GMSCOMMENT 3be4c62f-eb6a-4a97-bc26-429697298077 ARC 3 223246.12936002
327906.04715751 1.0 no_chdf1
#GMSCOMMENT 3be4c62f-eb6a-4a97-bc26-429697298077 ARC 4 217142.50205785
326734.23394706 1.0 no_chdf2
#GMSCOMMENT 3be4c62f-eb6a-4a97-bc26-429697298077 ARC 6 222578.35112892
322254.84184513 1.0 no_chdf3
#GMSCOMMENT 3be4c62f-eb6a-4a97-bc26-429697298077 ARC 7 217489.64947981
323175.8728997 1.0 no_chdf4
#GMSCOMMENT 40032957-9d1e-4e76-a16f-2e3eddda83fc ARC 1 221592.17305898
329998.70383702 1.0 no_chdf5
#GMSCOMMENT 40032957-9d1e-4e76-a16f-2e3eddda83fc ARC 3 223246.12936002
327906.04715751 1.0 no_chdf6
#GMSCOMMENT 40032957-9d1e-4e76-a16f-2e3eddda83fc ARC 4 217142.50205785
326734.23394706 1.0 no_chdf7
#GMSCOMMENT 40032957-9d1e-4e76-a16f-2e3eddda83fc ARC 6 223218.45089825
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322254.84184513 1.0 no_chdf14
#GMSCOMMENT 76adf7fe-22ab-44f0-94fb-60adc1ccd96e ARC 7 217489.64947981
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4 120 17 1.0
4 119 17 1.0
4 118 17 1.0
4 118 16 1.0
4 117 16 1.0
4 116 16 1.0
4 116 15 1.0
4 115 15 1.0
4 114 15 1.0
4 114 14 1.0
4 113 14 1.0
4 113 13 1.0
4 112 13 1.0
4 111 13 1.0
4 111 12 1.0
4 110 12 1.0
4 109 12 1.0
4 109 11 1.0
4 108 11 0.6650744165845
1 8
no_chdf20 1 0.0 1.0 1.0e+019 1 1
4 108 11 0.3349255834155
4 107 11 1.0
4 107 10 1.0
4 106 10 1.0
4 105 10 1.0
4 105 9 1.0
4 104 9 1.0
4 103 9 0.0818590510795

```

[illegible]

```

78.538343328334 78.538343328334 78.538343328334 78.538343328334
78.538343328334 78.538343328334 78.538343328334 78.538343328334
78.538343328334 78.538343328334 78.538343328334 78.538343328334
78.538343328334
HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/top1" 1 0 13426
HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/bot1" 1 0 13426
HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/bot2" 1 0 13426
HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/bot3" 1 0 13426
HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/bot4" 1 0 13426
HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/bot5" 1 0 13426
HDF5 1.0 -1 "FINAL_MEDK_6-11.h5" "Arrays/bot6" 1 0 13426
1.0 1 1.0 SS

```

MODFLOW-2000
 U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER FLOW
 MODEL
 VERSION 1.18.01 06/20/2008

This model run produced both GLOBAL and LIST files. This is the GLOBAL file.

GLOBAL LISTING FILE: "FINAL_MEDK_6-11.glo"
 UNIT 1

OPENING "FINAL_MEDK_6-11.out"
 FILE TYPE:LIST UNIT 2 STATUS:REPLACE
 FORMAT:FORMATTED ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.hed"
 FILE TYPE:DATA(BINARY) UNIT 30 STATUS:UNKNOWN
 FORMAT:BINARY ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.ccf"
 FILE TYPE:DATA(BINARY) UNIT 40 STATUS:UNKNOWN
 FORMAT:BINARY ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.lmt"
 FILE TYPE:LMT6 UNIT 18 STATUS:OLD
 FORMAT:FORMATTED ACCESS:SEQUENTIAL

#

Obs-Sen-Pes Process Input Files

OPENING "FINAL_MEDK_6-11.obs"
 FILE TYPE:OBS UNIT 50 STATUS:OLD
 FORMAT:FORMATTED ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.hob"
 FILE TYPE:HOB UNIT 51 STATUS:OLD
 FORMAT:FORMATTED ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.gbob"
 FILE TYPE:GBOB UNIT 53 STATUS:OLD
 FORMAT:FORMATTED ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.chob"
 FILE TYPE:CHOB UNIT 55 STATUS:OLD
 FORMAT:FORMATTED ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.t_snn"
 FILE TYPE:SEN UNIT 57 STATUS:OLD
 FORMAT:FORMATTED ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.pes"
 FILE TYPE:PES UNIT 58 STATUS:OLD
 FORMAT:FORMATTED ACCESS:SEQUENTIAL

FILE TYPE:ASP: FILE = FINAL_MEDK_6-11.asp

#

Global Input Files

OPENING "FINAL_MEDK_6-11.dis"
 FILE TYPE:DIS UNIT 19 STATUS:OLD

```

FORMAT:FORMATTED                ACCESS:SEQUENTIAL
#
# Flow Process Input Files

OPENING "FINAL_MEDK_6-11.ba6"
FILE TYPE:BAS6    UNIT      3    STATUS:OLD
FORMAT:FORMATTED                ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.lpf"
FILE TYPE:LPF     UNIT      4    STATUS:OLD
FORMAT:FORMATTED                ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.oc"
FILE TYPE:OC      UNIT     15    STATUS:OLD
FORMAT:FORMATTED                ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.wel"
FILE TYPE:WEL     UNIT      9    STATUS:OLD
FORMAT:FORMATTED                ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.ghb"
FILE TYPE:GHB     UNIT     11    STATUS:OLD
FORMAT:FORMATTED                ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.chd"
FILE TYPE:CHD     UNIT     13    STATUS:OLD
FORMAT:FORMATTED                ACCESS:SEQUENTIAL

OPENING "FINAL_MEDK_6-11.pcg"
FILE TYPE:PCG     UNIT     14    STATUS:OLD
FORMAT:FORMATTED                ACCESS:SEQUENTIAL

THE FREE FORMAT OPTION HAS BEEN SELECTED

DISCRETIZATION INPUT DATA READ FROM UNIT   19
# MF2K DISCRETIZATION FILE
#
#
# NLAY NROW NCOL NPER TIMEUNITS LENUNITS
   6 LAYERS      137 ROWS      98 COLUMNS
   1 STRESS PERIOD(S) IN SIMULATION
MODEL TIME UNIT IS DAYS
MODEL LENGTH UNIT IS FEET
THE GROUND-WATER TRANSPORT PROCESS IS INACTIVE

THE OBSERVATION PROCESS IS ACTIVE
THE SENSITIVITY PROCESS IS ACTIVE, BUT ISENALL < 0
THE PARAMETER-ESTIMATION PROCESS IS ACTIVE

MODE: FORWARD WITH OBSERVATIONS AND PARAMETER-VALUE SUBSTITUTION

Confining bed flag for each layer:
  0   0   0   0   0   0

725239  ELEMENTS OF GX ARRAY USED OUT OF    725239
80556   ELEMENTS OF GZ ARRAY USED OUT OF    80556
80556   ELEMENTS OF IG ARRAY USED OUT OF    80556

```

VARIABLES READ FROM ASP INPUT FILE:-

NOSTOP = 0 : CEASE EXECUTION IF MODFLOW FAILS TO CONVERGE.
 HYDRYBOT = 0 : ASSIGN HDRY TO HEAD IN DRY CELL.
 MINTHICK = 1.000 : MINIMUM SATURATED THICKNESS FOR BASAL CELLS.
 LIMOP = 0 : NO LIMITATIONS ON OBSERVATION OR SENSITIVITY
 OUTPUT.

DELR
 READING ON UNIT 19 WITH FORMAT: (FREE)

DELC
 READING ON UNIT 19 WITH FORMAT: (FREE)

STRESS PERIOD FLAG	LENGTH	TIME STEPS	MULTIPLIER FOR DELT	SS
-----------------------	--------	------------	---------------------	----

1	1.000000	1	1.000	
---	----------	---	-------	--

SS
STEADY-STATE SIMULATION

LPF1 -- LAYER PROPERTY FLOW PACKAGE, VERSION 1, 1/11/2000
 INPUT READ FROM UNIT 4
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT 40
 HEAD AT CELLS THAT CONVERT TO DRY= -888.00
 No named parameters

LAYER FLAGS:

LAYER	LAYTYP	LAYAVG	CHANI	LAYVKA
-------	--------	--------	-------	--------

0	1	1	0	-1.000E+00	1
0	2	1	0	-1.000E+00	1
0	3	1	0	-1.000E+00	1
0	4	1	0	-1.000E+00	1
0	5	1	0	-1.000E+00	1

```

0
6          1          0    -1.000E+00          1
0

```

```

      INTERPRETATION OF LAYER FLAGS:
              INTERBLOCK      HORIZONTAL      DATA IN
      LAYER TYPE      TRANSMISSIVITY      ANISOTROPY      ARRAY VKA
WETTABILITY
  LAYER      (LAYTYP)      (LAYAVG)      (CHANI)      (LAYVKA)
(LAYWET)
-----
---
  1  CONVERTIBLE      HARMONIC      VARIABLE      ANISOTROPY      NON-
WETTABLE
  2  CONVERTIBLE      HARMONIC      VARIABLE      ANISOTROPY      NON-
WETTABLE
  3  CONVERTIBLE      HARMONIC      VARIABLE      ANISOTROPY      NON-
WETTABLE
  4  CONVERTIBLE      HARMONIC      VARIABLE      ANISOTROPY      NON-
WETTABLE
  5  CONVERTIBLE      HARMONIC      VARIABLE      ANISOTROPY      NON-
WETTABLE
  6  CONVERTIBLE      HARMONIC      VARIABLE      ANISOTROPY      NON-
WETTABLE

```

```

      308798 ELEMENTS IN X ARRAY ARE USED BY LPF
      36 ELEMENTS IN IX ARRAY ARE USED BY LPF

```

```

PCG2 -- CONJUGATE GRADIENT SOLUTION PACKAGE, VERSION 2.4, 12/29/98
MAXIMUM OF      100 CALLS OF SOLUTION ROUTINE
MAXIMUM OF      100 INTERNAL ITERATIONS PER CALL TO SOLUTION ROUTINE
MATRIX PRECONDITIONING TYPE :      1
      181112 ELEMENTS IN X ARRAY ARE USED BY PCG
      70000 ELEMENTS IN IX ARRAY ARE USED BY PCG
      322224 ELEMENTS IN Z ARRAY ARE USED BY PCG

```

```

SEN1BAS6 -- SENSITIVITY PROCESS, VERSION 1.0, 10/15/98
INPUT READ FROM UNIT      57

```

```

NUMBER OF PARAMETER VALUES TO BE READ FROM SEN FILE:      3
ISENALL.....:      -1
SENSITIVITY PROCESS HAS BEEN DEACTIVATED BECAUSE ISENALL<0
PARAMETER-ESTIMATION PROCESS HAS BEEN DEACTIVATED BECAUSE ISENALL<0

```

```

      80578 ELEMENTS IN X ARRAY ARE USED FOR SENSITIVITIES
      80556 ELEMENTS IN Z ARRAY ARE USED FOR SENSITIVITIES
      6 ELEMENTS IN IX ARRAY ARE USED FOR SENSITIVITIES

```

```

OBS1BAS6 -- OBSERVATION PROCESS, VERSION 1.0, 4/27/99
INPUT READ FROM UNIT      50
OBSERVATION GRAPH-DATA OUTPUT FILES
WILL BE PRINTED AND NAMED USING THE BASE: FINAL_MEDK_6-11

```

```

HEAD OBSERVATIONS -- INPUT READ FROM UNIT      51
#      CoverageGUID ObjectType ID X Y Time OBNAM
#GMSCOMMENT 6494998d-fca4-4b90-b668-5e5133ad91e9 POINT 17080, 221321.0,
326721.0 ts_0 hed1
#GMSCOMMENT 6494998d-fca4-4b90-b668-5e5133ad91e9 POINT 17081, 219772.0,
326783.0 ts_0 hed2

```



```
#GMSCOMMENT 6494998d-fca4-4b90-b668-5e5133ad91e9 POINT 17082, 220786.0,
324855.0 ts_0 hed3
#GMSCOMMENT 6494998d-fca4-4b90-b668-5e5133ad91e9 POINT 17083, 220375.0,
323884.0 ts_0 hed4
#GMSCOMMENT 6494998d-fca4-4b90-b668-5e5133ad91e9 POINT 17084, 219766.0,
325296.0 ts_0 hed5
#GMSCOMMENT 6494998d-fca4-4b90-b668-5e5133ad91e9 POINT 17106, 220139.0,
325390.0 ts_0 hed6
```

```
NUMBER OF HEADS.....: 6
NUMBER OF MULTILAYER HEADS.....: 0
MAXIMUM NUMBER OF LAYERS FOR MULTILAYER HEADS.....: 6
```

OBS1GHB6 -- OBSERVATION PROCESS (GENERAL HEAD BOUNDARY FLOW
OBSERVATIONS)

VERSION 1.0, 10/15/98

INPUT READ FROM UNIT 53

```
# CoverageGUID ObjectType ID X Y Time OBNAME
#GMSCOMMENT 493720c9-cce2-4875-8a1d-0c8f1fc0c71c ARC 1 221592.17305898
329998.70383702 1.0 no_ghbf0
#GMSCOMMENT 493720c9-cce2-4875-8a1d-0c8f1fc0c71c ARC 3 223246.12936002
327906.04715751 1.0 no_ghbf1
#GMSCOMMENT 493720c9-cce2-4875-8a1d-0c8f1fc0c71c ARC 4 217142.50205785
326734.23394706 1.0 no_ghbf2
#GMSCOMMENT 493720c9-cce2-4875-8a1d-0c8f1fc0c71c ARC 6 222578.35112892
322254.84184513 1.0 no_ghbf3
#GMSCOMMENT 493720c9-cce2-4875-8a1d-0c8f1fc0c71c ARC 7 217489.64947981
323175.8728997 1.0 no_ghbf4
#GMSCOMMENT 5cdc328f-7c6c-4d61-a175-a9b6a1d4e818 ARC 1 221592.17305898
329998.70383702 1.0 no_ghbf5
#GMSCOMMENT 5cdc328f-7c6c-4d61-a175-a9b6a1d4e818 ARC 3 223246.12936002
327906.04715751 1.0 no_ghbf6
#GMSCOMMENT 5cdc328f-7c6c-4d61-a175-a9b6a1d4e818 ARC 4 217142.50205785
326734.23394706 1.0 no_ghbf7
#GMSCOMMENT 5cdc328f-7c6c-4d61-a175-a9b6a1d4e818 ARC 6 222578.35112892
322254.84184513 1.0 no_ghbf8
#GMSCOMMENT 5cdc328f-7c6c-4d61-a175-a9b6a1d4e818 ARC 7 217489.64947981
323175.8728997 1.0 no_ghbf9
```

```
NUMBER OF FLOW-OBSERVATION GENERAL-HEAD-CELL GROUPS: 10
NUMBER OF CELLS IN GENERAL-HEAD-CELL GROUPS.....: 878
NUMBER OF GENERAL-HEAD-CELL FLOWS.....: 10
```

OBS1BAS6F -- OBSERVATION PROCESS (CONSTANT-HEAD BOUNDARY FLOW
OBSERVATIONS)

VERSION 1.0, 12/03/99

INPUT READ FROM UNIT 55

```
# CoverageGUID ObjectType ID X Y Time OBNAME
#GMSCOMMENT 3be4c62f-eb6a-4a97-bc26-429697298077 ARC 1 221592.17305898
329998.70383702 1.0 no_chdf0
#GMSCOMMENT 3be4c62f-eb6a-4a97-bc26-429697298077 ARC 3 223246.12936002
327906.04715751 1.0 no_chdf1
#GMSCOMMENT 3be4c62f-eb6a-4a97-bc26-429697298077 ARC 4 217142.50205785
326734.23394706 1.0 no_chdf2
#GMSCOMMENT 3be4c62f-eb6a-4a97-bc26-429697298077 ARC 6 222578.35112892
322254.84184513 1.0 no_chdf3
#GMSCOMMENT 3be4c62f-eb6a-4a97-bc26-429697298077 ARC 7 217489.64947981
323175.8728997 1.0 no_chdf4
#GMSCOMMENT 40032957-9d1e-4e76-a16f-2e3eddda83fc ARC 1 221592.17305898
329998.70383702 1.0 no_chdf5
```

```

#GMSCOMMENT 40032957-9d1e-4e76-a16f-2e3eddda83fc ARC 3 223246.12936002
327906.04715751 1.0 no_chdf6
#GMSCOMMENT 40032957-9d1e-4e76-a16f-2e3eddda83fc ARC 4 217142.50205785
326734.23394706 1.0 no_chdf7
#GMSCOMMENT 40032957-9d1e-4e76-a16f-2e3eddda83fc ARC 6 223218.45089825
323598.51628882 1.0 no_chdf8
#GMSCOMMENT 40032957-9d1e-4e76-a16f-2e3eddda83fc ARC 7 217489.64947981
323175.8728997 1.0 no_chdf9
#GMSCOMMENT 40032957-9d1e-4e76-a16f-2e3eddda83fc ARC 8 218698.66163564
321550.15247573 1.0 no_chdf10
#GMSCOMMENT 76adf7fe-22ab-44f0-94fb-60adc1ccd96e ARC 1 221592.17305898
329998.70383702 1.0 no_chdf11
#GMSCOMMENT 76adf7fe-22ab-44f0-94fb-60adc1ccd96e ARC 3 223246.12936002
327906.04715751 1.0 no_chdf12
#GMSCOMMENT 76adf7fe-22ab-44f0-94fb-60adc1ccd96e ARC 4 217142.50205785
326734.23394706 1.0 no_chdf13
#GMSCOMMENT 76adf7fe-22ab-44f0-94fb-60adc1ccd96e ARC 6 222578.35112892
322254.84184513 1.0 no_chdf14
#GMSCOMMENT 76adf7fe-22ab-44f0-94fb-60adc1ccd96e ARC 7 217489.64947981
323175.8728997 1.0 no_chdf15
#GMSCOMMENT 92ab0c53-96b1-4306-b9c9-5cf3cae37a05 ARC 1 221592.17305898
329998.70383702 1.0 no_chdf16
#GMSCOMMENT 92ab0c53-96b1-4306-b9c9-5cf3cae37a05 ARC 3 223246.12936002
327906.04715751 1.0 no_chdf17
#GMSCOMMENT 92ab0c53-96b1-4306-b9c9-5cf3cae37a05 ARC 4 217142.50205785
326734.23394706 1.0 no_chdf18
#GMSCOMMENT 92ab0c53-96b1-4306-b9c9-5cf3cae37a05 ARC 6 222578.35112892
322254.84184513 1.0 no_chdf19
#GMSCOMMENT 92ab0c53-96b1-4306-b9c9-5cf3cae37a05 ARC 7 217489.64947981
323175.8728997 1.0 no_chdf20

```

```

NUMBER OF FLOW-OBSERVATION CONSTANT-HEAD-CELL GROUPS: 21
NUMBER OF CELLS IN CONSTANT-HEAD-CELL GROUPS.....: 1745
NUMBER OF CONSTANT-HEAD-CELL FLOWS.....: 21

```

```

15826 ELEMENTS IN X ARRAY ARE USED FOR OBSERVATIONS
1056 ELEMENTS IN Z ARRAY ARE USED FOR OBSERVATIONS
311 ELEMENTS IN IX ARRAY ARE USED FOR OBSERVATIONS

```

```
COMMON ERROR VARIANCE FOR ALL OBSERVATIONS SET TO: 1.000
```

```

586314 ELEMENTS OF X ARRAY USED OUT OF 586314
403836 ELEMENTS OF Z ARRAY USED OUT OF 403836
70353 ELEMENTS OF IX ARRAY USED OUT OF 70353
0 ELEMENTS OF XHS ARRAY USED OUT OF 1

```

INFORMATION ON PARAMETERS LISTED IN SEN FILE				LOWER	UPPER
ALTERNATE				REASONABLE	REASONABLE
SCALING	VALUE IN SEN			REASONABLE	REASONABLE
NAME	ISENS	LN	INPUT FILE	LIMIT	LIMIT
FACTOR					
HK_100	1	1	517.39	0.10000E-02	1000.0
1.0000					
GHB_300	1	0	147.74	0.10000E-02	1000.0
1.0000					
GHB_400	1	0	179.94	0.10000E-02	1000.0

1.0000

 FOR THE PARAMETERS LISTED IN THE TABLE ABOVE, PARAMETER VALUES IN
 INDIVIDUAL
 PACKAGE INPUT FILES ARE REPLACED BY THE VALUES FROM THE SEN INPUT FILE.
 THE
 ALTERNATE SCALING FACTOR IS USED TO SCALE SENSITIVITIES IF IT IS LARGER
 THAN
 THE PARAMETER VALUE IN ABSOLUTE VALUE AND THE PARAMETER IS NOT LOG-
 TRANSFORMED.

BECAUSE ISENALL < 0, ALL ISENS ARE SET TO 0

HEAD OBSERVATION VARIANCES ARE MULTIPLIED BY: 1.000

OBSERVED HEAD DATA -- TIME OFFSETS ARE MULTIPLIED BY: 1.0000

OBSERVATION		REFER.	TIME			
STATISTIC	PLOT	STRESS				
OBS#	NAME	PERIOD	OFFSET	OBSERVATION	STATISTIC	TYPE
SYM.						
1	hed1	1	0.000	3690.	0.5102	STD.
DEV.	1					
2	hed2	1	0.000	3698.	0.5102	STD.
DEV.	1					
3	hed3	1	0.000	3701.	0.5102	STD.
DEV.	1					
4	hed4	1	0.000	3703.	0.5102	STD.
DEV.	1					
5	hed5	1	0.000	3706.	0.5102	STD.
DEV.	1					
6	hed6	1	0.000	3697.	0.5102	STD.
DEV.	1					

OBSERVATION		HEAD CHANGE REFERENCE OBSERVATION (IF > 0)				
OBS#	NAME	LAY	ROW	COL	ROW OFFSET	COL OFFSET
1	hed1	5	51	68	-0.187	0.060
2	hed2	5	50	39	0.026	-0.009
3	hed3	5	84	61	0.251	0.224
4	hed4	5	97	55	-0.386	-0.062
5	hed5	5	76	39	0.497	-0.111
6	hed6	5	74	48	-0.302	0.400

GENERAL-HEAD-CELL FLOW OBSERVATION VARIANCES ARE MULTIPLIED BY:
1.000

OBSERVED GENERAL-HEAD-CELL FLOW DATA
 -- TIME OFFSETS ARE MULTIPLIED BY: 1.0000

GROUP NUMBER: 1 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP:
89
 NUMBER OF FLOW OBSERVATIONS: 1

REFER.	OBSERVED BOUNDARY FLOW
--------	---------------------------

OBSERVATION	STRESS	TIME	GAIN (-) OR	
STATISTIC PLOT			LOSS (+)	STATISTIC
OBS# NAME	PERIOD	OFFSET		TYPE
7 no_ghbf0	1	0.000	1.000	0.1000E+20
DEV. 1				STD.

LAYER	ROW	COLUMN	FACTOR
6.	33.	92.	1.00
6.	32.	92.	1.00
6.	32.	91.	1.00
6.	31.	91.	1.00
6.	30.	91.	1.00
6.	30.	90.	1.00
6.	29.	90.	1.00
6.	29.	89.	1.00
6.	28.	89.	1.00
6.	28.	88.	1.00
6.	27.	88.	1.00
6.	27.	87.	1.00
6.	26.	87.	1.00
6.	26.	86.	1.00
6.	25.	86.	1.00
6.	25.	85.	1.00
6.	24.	85.	1.00
6.	23.	85.	1.00
6.	23.	84.	1.00
6.	22.	84.	1.00
6.	22.	83.	1.00
6.	21.	83.	1.00
6.	21.	82.	1.00
6.	20.	82.	1.00
6.	20.	81.	1.00
6.	19.	81.	1.00
6.	19.	80.	1.00
6.	18.	80.	1.00
6.	18.	79.	1.00
6.	17.	79.	1.00
6.	16.	79.	1.00
6.	16.	78.	1.00
6.	15.	78.	1.00
6.	15.	77.	1.00
6.	14.	77.	1.00
6.	14.	76.	1.00
6.	13.	76.	1.00
6.	13.	75.	1.00
6.	12.	75.	1.00
6.	12.	74.	1.00
6.	11.	74.	1.00
6.	11.	73.	1.00
6.	10.	73.	1.00
6.	9.	73.	1.00
6.	9.	72.	1.00
6.	9.	71.	1.00
6.	9.	70.	1.00
6.	9.	69.	1.00
6.	9.	68.	1.00
6.	9.	67.	1.00
6.	9.	66.	1.00
6.	9.	65.	1.00

6.	9.	64.	1.00
6.	8.	64.	1.00
6.	8.	63.	1.00
6.	8.	62.	1.00
6.	8.	61.	1.00
6.	8.	60.	1.00
6.	8.	59.	1.00
6.	8.	58.	1.00
6.	8.	57.	1.00
6.	8.	56.	1.00
6.	8.	55.	1.00
6.	8.	54.	1.00
6.	8.	53.	1.00
6.	8.	52.	1.00
6.	8.	51.	1.00
6.	8.	50.	1.00
6.	7.	50.	1.00
6.	7.	49.	1.00
6.	7.	48.	1.00
6.	7.	47.	1.00
6.	7.	46.	1.00
6.	7.	45.	1.00
6.	7.	44.	1.00
6.	7.	43.	1.00
6.	7.	42.	1.00
6.	7.	41.	1.00
6.	7.	40.	1.00
6.	7.	39.	1.00
6.	7.	38.	1.00
6.	7.	37.	1.00
6.	7.	36.	1.00
6.	7.	35.	1.00
6.	7.	34.	1.00
6.	7.	33.	1.00
6.	6.	33.	1.00
6.	6.	32.	1.00
6.	6.	31.	1.00

GROUP NUMBER: 2 BOUNDARY TYPE: GHb NUMBER OF CELLS IN GROUP: 8
 NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.	8 no_ghbf1	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
6.	39.	93.	1.00
6.	38.	93.	1.00
6.	37.	93.	1.00
6.	36.	93.	1.00
6.	35.	93.	1.00
6.	34.	93.	1.00
6.	34.	92.	1.00
6.	33.	92.	1.00

GROUP NUMBER: 3 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP:
 131
 NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.	9 no_ghbf2	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
6.	6.	31.	0.00
6.	6.	31.	1.00
6.	7.	31.	1.00
6.	7.	30.	1.00
6.	7.	29.	1.00
6.	8.	29.	1.00
6.	8.	28.	1.00
6.	8.	27.	1.00
6.	9.	27.	1.00
6.	9.	26.	1.00
6.	9.	25.	1.00
6.	10.	25.	1.00
6.	10.	24.	1.00
6.	11.	24.	1.00
6.	11.	23.	1.00
6.	11.	22.	1.00
6.	12.	22.	1.00
6.	12.	21.	1.00
6.	12.	20.	1.00
6.	13.	20.	1.00
6.	13.	19.	1.00
6.	13.	18.	1.00
6.	14.	18.	1.00
6.	14.	17.	1.00
6.	15.	17.	1.00
6.	15.	16.	1.00
6.	16.	16.	1.00
6.	16.	15.	1.00
6.	17.	15.	1.00
6.	18.	15.	1.00
6.	18.	14.	1.00
6.	19.	14.	1.00
6.	20.	14.	1.00
6.	20.	13.	1.00
6.	21.	13.	1.00
6.	22.	13.	1.00
6.	22.	12.	1.00
6.	23.	12.	1.00
6.	24.	12.	1.00
6.	24.	11.	1.00
6.	25.	11.	1.00
6.	26.	11.	1.00
6.	26.	10.	1.00
6.	27.	10.	1.00
6.	28.	10.	1.00

6.	28.	9.	1.00
6.	29.	9.	1.00
6.	30.	9.	1.00
6.	30.	8.	1.00
6.	31.	8.	1.00
6.	32.	8.	1.00
6.	32.	7.	1.00
6.	33.	7.	1.00
6.	34.	7.	1.00
6.	35.	7.	1.00
6.	36.	7.	1.00
6.	36.	6.	1.00
6.	37.	6.	1.00
6.	38.	6.	1.00
6.	39.	6.	1.00
6.	40.	6.	1.00
6.	41.	6.	1.00
6.	42.	6.	1.00
6.	43.	6.	1.00
6.	44.	6.	1.00
6.	45.	6.	1.00
6.	46.	6.	1.00
6.	47.	6.	1.00
6.	48.	6.	1.00
6.	49.	6.	1.00
6.	50.	6.	1.00
6.	51.	6.	1.00
6.	51.	5.	1.00
6.	52.	5.	1.00
6.	53.	5.	1.00
6.	54.	5.	1.00
6.	55.	5.	1.00
6.	56.	5.	1.00
6.	57.	5.	1.00
6.	58.	5.	1.00
6.	59.	5.	1.00
6.	60.	5.	1.00
6.	61.	5.	1.00
6.	62.	5.	1.00
6.	63.	5.	1.00
6.	64.	5.	1.00
6.	65.	5.	1.00
6.	66.	5.	1.00
6.	67.	5.	1.00
6.	67.	4.	1.00
6.	67.	5.	1.00
6.	68.	5.	1.00
6.	69.	5.	1.00
6.	70.	5.	1.00
6.	71.	5.	1.00
6.	72.	5.	1.00
6.	73.	5.	1.00
6.	74.	5.	1.00
6.	75.	5.	1.00
6.	76.	5.	1.00
6.	77.	5.	1.00
6.	78.	5.	1.00
6.	79.	5.	1.00
6.	80.	5.	1.00
6.	81.	5.	1.00

6.	82.	5.	1.00
6.	82.	6.	1.00
6.	83.	6.	1.00
6.	84.	6.	1.00
6.	85.	6.	1.00
6.	86.	6.	1.00
6.	87.	6.	1.00
6.	88.	6.	1.00
6.	89.	6.	1.00
6.	89.	7.	1.00
6.	90.	7.	1.00
6.	91.	7.	1.00
6.	92.	7.	1.00
6.	93.	7.	1.00
6.	94.	7.	1.00
6.	95.	7.	1.00
6.	95.	8.	1.00
6.	96.	8.	1.00
6.	97.	8.	1.00
6.	98.	8.	1.00
6.	99.	8.	1.00
6.	100.	8.	1.00
6.	101.	8.	1.00
6.	102.	8.	1.00
6.	102.	9.	1.00
6.	103.	9.	1.00

GROUP NUMBER: 4 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP:
202

NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION		REFER.	TIME	OBSERVED		
STATISTIC	PLOT	STRESS		BOUNDARY FLOW		
OBS#	NAME	PERIOD	OFFSET	LOSS (+)	STATISTIC	TYPE
10	no_ghbf3	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
6.	108.	11.	1.00
6.	109.	11.	1.00
6.	109.	12.	1.00
6.	110.	12.	1.00
6.	111.	12.	1.00
6.	111.	13.	1.00
6.	112.	13.	1.00
6.	113.	13.	1.00
6.	113.	14.	1.00
6.	114.	14.	1.00
6.	114.	15.	1.00
6.	115.	15.	1.00
6.	116.	15.	1.00
6.	116.	16.	1.00
6.	117.	16.	1.00
6.	118.	16.	1.00
6.	118.	17.	1.00
6.	119.	17.	1.00
6.	120.	17.	1.00

6.	120.	18.	1.00
6.	121.	18.	1.00
6.	122.	18.	1.00
6.	122.	19.	1.00
6.	123.	19.	1.00
6.	124.	19.	1.00
6.	124.	20.	1.00
6.	125.	20.	1.00
6.	125.	21.	1.00
6.	125.	22.	1.00
6.	126.	22.	1.00
6.	126.	23.	1.00
6.	126.	24.	1.00
6.	126.	25.	1.00
6.	126.	26.	1.00
6.	127.	26.	1.00
6.	127.	27.	1.00
6.	127.	28.	1.00
6.	127.	29.	1.00
6.	128.	29.	1.00
6.	128.	30.	1.00
6.	128.	31.	1.00
6.	128.	32.	1.00
6.	128.	33.	1.00
6.	129.	33.	1.00
6.	129.	34.	1.00
6.	129.	35.	1.00
6.	129.	36.	1.00
6.	130.	36.	1.00
6.	130.	37.	1.00
6.	130.	38.	1.00
6.	130.	39.	1.00
6.	130.	40.	1.00
6.	130.	41.	1.00
6.	131.	41.	1.00
6.	131.	42.	1.00
6.	131.	43.	1.00
6.	131.	44.	1.00
6.	131.	45.	1.00
6.	131.	46.	1.00
6.	131.	47.	1.00
6.	131.	48.	1.00
6.	131.	49.	1.00
6.	132.	49.	1.00
6.	132.	50.	1.00
6.	132.	51.	1.00
6.	132.	52.	1.00
6.	132.	53.	1.00
6.	131.	53.	1.00
6.	131.	54.	1.00
6.	131.	55.	1.00
6.	131.	56.	1.00
6.	131.	57.	1.00
6.	131.	58.	1.00
6.	131.	59.	1.00
6.	130.	59.	1.00
6.	130.	60.	1.00
6.	130.	61.	1.00
6.	130.	62.	1.00
6.	130.	63.	1.00

6.	129.	63.	1.00
6.	129.	64.	1.00
6.	129.	65.	1.00
6.	129.	66.	1.00
6.	129.	67.	1.00
6.	128.	67.	1.00
6.	128.	68.	1.00
6.	128.	69.	1.00
6.	128.	70.	1.00
6.	128.	71.	1.00
6.	127.	71.	1.00
6.	127.	72.	1.00
6.	127.	73.	1.00
6.	127.	74.	1.00
6.	127.	75.	1.00
6.	126.	75.	1.00
6.	126.	76.	1.00
6.	126.	77.	1.00
6.	126.	78.	1.00
6.	126.	79.	1.00
6.	125.	79.	1.00
6.	125.	80.	1.00
6.	124.	80.	1.00
6.	124.	81.	1.00
6.	123.	81.	1.00
6.	122.	81.	1.00
6.	122.	82.	1.00
6.	121.	82.	1.00
6.	120.	82.	1.00
6.	120.	83.	1.00
6.	119.	83.	1.00
6.	119.	84.	1.00
6.	118.	84.	1.00
6.	117.	84.	1.00
6.	117.	85.	1.00
6.	116.	85.	1.00
6.	115.	85.	1.00
6.	115.	86.	1.00
6.	114.	86.	1.00
6.	113.	86.	1.00
6.	113.	87.	1.00
6.	112.	87.	1.00
6.	111.	87.	1.00
6.	111.	88.	1.00
6.	110.	88.	1.00
6.	109.	88.	1.00
6.	109.	89.	1.00
6.	108.	89.	1.00
6.	107.	89.	1.00
6.	107.	90.	1.00
6.	106.	90.	1.00
6.	105.	90.	1.00
6.	105.	91.	1.00
6.	104.	91.	1.00
6.	103.	91.	1.00
6.	103.	92.	1.00
6.	102.	92.	1.00
6.	101.	92.	1.00
6.	100.	92.	1.00
6.	99.	92.	1.00

6.	98.	92.	1.00
6.	97.	92.	1.00
6.	97.	93.	1.00
6.	96.	93.	1.00
6.	95.	93.	1.00
6.	94.	93.	1.00
6.	93.	93.	1.00
6.	92.	93.	1.00
6.	91.	93.	1.00
6.	90.	93.	1.00
6.	89.	93.	1.00
6.	88.	93.	1.00
6.	87.	93.	1.00
6.	86.	93.	1.00
6.	85.	93.	1.00
6.	84.	93.	1.00
6.	83.	93.	1.00
6.	83.	94.	1.00
6.	82.	94.	1.00
6.	81.	94.	1.00
6.	80.	94.	1.00
6.	79.	94.	1.00
6.	78.	94.	1.00
6.	77.	94.	1.00
6.	76.	94.	1.00
6.	75.	94.	1.00
6.	74.	94.	1.00
6.	73.	94.	1.00
6.	72.	94.	1.00
6.	71.	94.	1.00
6.	70.	94.	1.00
6.	69.	94.	1.00
6.	68.	94.	1.00
6.	67.	94.	1.00
6.	66.	94.	1.00
6.	65.	94.	1.00
6.	64.	94.	1.00
6.	63.	94.	1.00
6.	62.	94.	1.00
6.	61.	94.	1.00
6.	60.	94.	1.00
6.	59.	94.	1.00
6.	58.	94.	1.00
6.	57.	94.	1.00
6.	56.	94.	1.00
6.	55.	94.	1.00
6.	54.	94.	1.00
6.	53.	94.	1.00
6.	52.	94.	1.00
6.	51.	94.	1.00
6.	50.	94.	1.00
6.	49.	94.	1.00
6.	48.	94.	1.00
6.	47.	94.	1.00
6.	47.	93.	1.00
6.	46.	93.	1.00
6.	45.	93.	1.00
6.	44.	93.	1.00
6.	43.	93.	1.00
6.	42.	93.	1.00

6.	41.	93.	1.00
6.	40.	93.	1.00
6.	39.	93.	1.00

9 GROUP NUMBER: 5 BOUNDARY TYPE: GHb NUMBER OF CELLS IN GROUP:
 NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR	LOSS (+)	STATISTIC	TYPE
OBS#	NAME	PERIOD	OFFSET				
SYM.							
11	no_ghbf4	1	0.000	1.000	0.1000E+20	STD.	
DEV.	1						

LAYER	ROW	COLUMN	FACTOR
6.	103.	9.	0.00
6.	103.	9.	1.00
6.	104.	9.	1.00
6.	105.	9.	1.00
6.	105.	10.	1.00
6.	106.	10.	1.00
6.	107.	10.	1.00
6.	107.	11.	1.00
6.	108.	11.	1.00

89 GROUP NUMBER: 6 BOUNDARY TYPE: GHb NUMBER OF CELLS IN GROUP:
 NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR	LOSS (+)	STATISTIC	TYPE
OBS#	NAME	PERIOD	OFFSET				
SYM.							
12	no_ghbf5	1	0.000	1.000	0.1000E+20	STD.	
DEV.	1						

LAYER	ROW	COLUMN	FACTOR
5.	33.	92.	1.00
5.	32.	92.	1.00
5.	32.	91.	1.00
5.	31.	91.	1.00
5.	30.	91.	1.00
5.	30.	90.	1.00
5.	29.	90.	1.00
5.	29.	89.	1.00
5.	28.	89.	1.00
5.	28.	88.	1.00
5.	27.	88.	1.00
5.	27.	87.	1.00
5.	26.	87.	1.00
5.	26.	86.	1.00
5.	25.	86.	1.00
5.	25.	85.	1.00
5.	24.	85.	1.00
5.	23.	85.	1.00

5.	23.	84.	1.00
5.	22.	84.	1.00
5.	22.	83.	1.00
5.	21.	83.	1.00
5.	21.	82.	1.00
5.	20.	82.	1.00
5.	20.	81.	1.00
5.	19.	81.	1.00
5.	19.	80.	1.00
5.	18.	80.	1.00
5.	18.	79.	1.00
5.	17.	79.	1.00
5.	16.	79.	1.00
5.	16.	78.	1.00
5.	15.	78.	1.00
5.	15.	77.	1.00
5.	14.	77.	1.00
5.	14.	76.	1.00
5.	13.	76.	1.00
5.	13.	75.	1.00
5.	12.	75.	1.00
5.	12.	74.	1.00
5.	11.	74.	1.00
5.	11.	73.	1.00
5.	10.	73.	1.00
5.	9.	73.	1.00
5.	9.	72.	1.00
5.	9.	71.	1.00
5.	9.	70.	1.00
5.	9.	69.	1.00
5.	9.	68.	1.00
5.	9.	67.	1.00
5.	9.	66.	1.00
5.	9.	65.	1.00
5.	9.	64.	1.00
5.	8.	64.	1.00
5.	8.	63.	1.00
5.	8.	62.	1.00
5.	8.	61.	1.00
5.	8.	60.	1.00
5.	8.	59.	1.00
5.	8.	58.	1.00
5.	8.	57.	1.00
5.	8.	56.	1.00
5.	8.	55.	1.00
5.	8.	54.	1.00
5.	8.	53.	1.00
5.	8.	52.	1.00
5.	8.	51.	1.00
5.	8.	50.	1.00
5.	7.	50.	1.00
5.	7.	49.	1.00
5.	7.	48.	1.00
5.	7.	47.	1.00
5.	7.	46.	1.00
5.	7.	45.	1.00
5.	7.	44.	1.00
5.	7.	43.	1.00
5.	7.	42.	1.00
5.	7.	41.	1.00

5.	7.	40.	1.00
5.	7.	39.	1.00
5.	7.	38.	1.00
5.	7.	37.	1.00
5.	7.	36.	1.00
5.	7.	35.	1.00
5.	7.	34.	1.00
5.	7.	33.	1.00
5.	6.	33.	1.00
5.	6.	32.	1.00
5.	6.	31.	1.00

GROUP NUMBER: 7 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP:
8
NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.	13 no_ghbf6	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
5.	39.	93.	1.00
5.	38.	93.	1.00
5.	37.	93.	1.00
5.	36.	93.	1.00
5.	35.	93.	1.00
5.	34.	93.	1.00
5.	34.	92.	1.00
5.	33.	92.	1.00

GROUP NUMBER: 8 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP:
131
NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.	14 no_ghbf7	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
5.	6.	31.	0.00
5.	6.	31.	1.00
5.	7.	31.	1.00
5.	7.	30.	1.00
5.	7.	29.	1.00
5.	8.	29.	1.00
5.	8.	28.	1.00
5.	8.	27.	1.00
5.	9.	27.	1.00
5.	9.	26.	1.00
5.	9.	25.	1.00

5.	10.	25.	1.00
5.	10.	24.	1.00
5.	11.	24.	1.00
5.	11.	23.	1.00
5.	11.	22.	1.00
5.	12.	22.	1.00
5.	12.	21.	1.00
5.	12.	20.	1.00
5.	13.	20.	1.00
5.	13.	19.	1.00
5.	13.	18.	1.00
5.	14.	18.	1.00
5.	14.	17.	1.00
5.	15.	17.	1.00
5.	15.	16.	1.00
5.	16.	16.	1.00
5.	16.	15.	1.00
5.	17.	15.	1.00
5.	18.	15.	1.00
5.	18.	14.	1.00
5.	19.	14.	1.00
5.	20.	14.	1.00
5.	20.	13.	1.00
5.	21.	13.	1.00
5.	22.	13.	1.00
5.	22.	12.	1.00
5.	23.	12.	1.00
5.	24.	12.	1.00
5.	24.	11.	1.00
5.	25.	11.	1.00
5.	26.	11.	1.00
5.	26.	10.	1.00
5.	27.	10.	1.00
5.	28.	10.	1.00
5.	28.	9.	1.00
5.	29.	9.	1.00
5.	30.	9.	1.00
5.	30.	8.	1.00
5.	31.	8.	1.00
5.	32.	8.	1.00
5.	32.	7.	1.00
5.	33.	7.	1.00
5.	34.	7.	1.00
5.	35.	7.	1.00
5.	36.	7.	1.00
5.	36.	6.	1.00
5.	37.	6.	1.00
5.	38.	6.	1.00
5.	39.	6.	1.00
5.	40.	6.	1.00
5.	41.	6.	1.00
5.	42.	6.	1.00
5.	43.	6.	1.00
5.	44.	6.	1.00
5.	45.	6.	1.00
5.	46.	6.	1.00
5.	47.	6.	1.00
5.	48.	6.	1.00
5.	49.	6.	1.00
5.	50.	6.	1.00

5.	51.	6.	1.00
5.	51.	5.	1.00
5.	52.	5.	1.00
5.	53.	5.	1.00
5.	54.	5.	1.00
5.	55.	5.	1.00
5.	56.	5.	1.00
5.	57.	5.	1.00
5.	58.	5.	1.00
5.	59.	5.	1.00
5.	60.	5.	1.00
5.	61.	5.	1.00
5.	62.	5.	1.00
5.	63.	5.	1.00
5.	64.	5.	1.00
5.	65.	5.	1.00
5.	66.	5.	1.00
5.	67.	5.	1.00
5.	67.	4.	1.00
5.	67.	5.	1.00
5.	68.	5.	1.00
5.	69.	5.	1.00
5.	70.	5.	1.00
5.	71.	5.	1.00
5.	72.	5.	1.00
5.	73.	5.	1.00
5.	74.	5.	1.00
5.	75.	5.	1.00
5.	76.	5.	1.00
5.	77.	5.	1.00
5.	78.	5.	1.00
5.	79.	5.	1.00
5.	80.	5.	1.00
5.	81.	5.	1.00
5.	82.	5.	1.00
5.	82.	6.	1.00
5.	83.	6.	1.00
5.	84.	6.	1.00
5.	85.	6.	1.00
5.	86.	6.	1.00
5.	87.	6.	1.00
5.	88.	6.	1.00
5.	89.	6.	1.00
5.	89.	7.	1.00
5.	90.	7.	1.00
5.	91.	7.	1.00
5.	92.	7.	1.00
5.	93.	7.	1.00
5.	94.	7.	1.00
5.	95.	7.	1.00
5.	95.	8.	1.00
5.	96.	8.	1.00
5.	97.	8.	1.00
5.	98.	8.	1.00
5.	99.	8.	1.00
5.	100.	8.	1.00
5.	101.	8.	1.00
5.	102.	8.	1.00
5.	102.	9.	1.00
5.	103.	9.	1.00

GROUP NUMBER: 9 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP:
 202
 NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.	15 no_ghbf8	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
5.	108.	11.	1.00
5.	109.	11.	1.00
5.	109.	12.	1.00
5.	110.	12.	1.00
5.	111.	12.	1.00
5.	111.	13.	1.00
5.	112.	13.	1.00
5.	113.	13.	1.00
5.	113.	14.	1.00
5.	114.	14.	1.00
5.	114.	15.	1.00
5.	115.	15.	1.00
5.	116.	15.	1.00
5.	116.	16.	1.00
5.	117.	16.	1.00
5.	118.	16.	1.00
5.	118.	17.	1.00
5.	119.	17.	1.00
5.	120.	17.	1.00
5.	120.	18.	1.00
5.	121.	18.	1.00
5.	122.	18.	1.00
5.	122.	19.	1.00
5.	123.	19.	1.00
5.	124.	19.	1.00
5.	124.	20.	1.00
5.	125.	20.	1.00
5.	125.	21.	1.00
5.	125.	22.	1.00
5.	126.	22.	1.00
5.	126.	23.	1.00
5.	126.	24.	1.00
5.	126.	25.	1.00
5.	126.	26.	1.00
5.	127.	26.	1.00
5.	127.	27.	1.00
5.	127.	28.	1.00
5.	127.	29.	1.00
5.	128.	29.	1.00
5.	128.	30.	1.00
5.	128.	31.	1.00
5.	128.	32.	1.00
5.	128.	33.	1.00
5.	129.	33.	1.00
5.	129.	34.	1.00

5.	129.	35.	1.00
5.	129.	36.	1.00
5.	130.	36.	1.00
5.	130.	37.	1.00
5.	130.	38.	1.00
5.	130.	39.	1.00
5.	130.	40.	1.00
5.	130.	41.	1.00
5.	131.	41.	1.00
5.	131.	42.	1.00
5.	131.	43.	1.00
5.	131.	44.	1.00
5.	131.	45.	1.00
5.	131.	46.	1.00
5.	131.	47.	1.00
5.	131.	48.	1.00
5.	131.	49.	1.00
5.	132.	49.	1.00
5.	132.	50.	1.00
5.	132.	51.	1.00
5.	132.	52.	1.00
5.	132.	53.	1.00
5.	131.	53.	1.00
5.	131.	54.	1.00
5.	131.	55.	1.00
5.	131.	56.	1.00
5.	131.	57.	1.00
5.	131.	58.	1.00
5.	131.	59.	1.00
5.	130.	59.	1.00
5.	130.	60.	1.00
5.	130.	61.	1.00
5.	130.	62.	1.00
5.	130.	63.	1.00
5.	129.	63.	1.00
5.	129.	64.	1.00
5.	129.	65.	1.00
5.	129.	66.	1.00
5.	129.	67.	1.00
5.	128.	67.	1.00
5.	128.	68.	1.00
5.	128.	69.	1.00
5.	128.	70.	1.00
5.	128.	71.	1.00
5.	127.	71.	1.00
5.	127.	72.	1.00
5.	127.	73.	1.00
5.	127.	74.	1.00
5.	127.	75.	1.00
5.	126.	75.	1.00
5.	126.	76.	1.00
5.	126.	77.	1.00
5.	126.	78.	1.00
5.	126.	79.	1.00
5.	125.	79.	1.00
5.	125.	80.	1.00
5.	124.	80.	1.00
5.	124.	81.	1.00
5.	123.	81.	1.00
5.	122.	81.	1.00

5.	122.	82.	1.00
5.	121.	82.	1.00
5.	120.	82.	1.00
5.	120.	83.	1.00
5.	119.	83.	1.00
5.	119.	84.	1.00
5.	118.	84.	1.00
5.	117.	84.	1.00
5.	117.	85.	1.00
5.	116.	85.	1.00
5.	115.	85.	1.00
5.	115.	86.	1.00
5.	114.	86.	1.00
5.	113.	86.	1.00
5.	113.	87.	1.00
5.	112.	87.	1.00
5.	111.	87.	1.00
5.	111.	88.	1.00
5.	110.	88.	1.00
5.	109.	88.	1.00
5.	109.	89.	1.00
5.	108.	89.	1.00
5.	107.	89.	1.00
5.	107.	90.	1.00
5.	106.	90.	1.00
5.	105.	90.	1.00
5.	105.	91.	1.00
5.	104.	91.	1.00
5.	103.	91.	1.00
5.	103.	92.	1.00
5.	102.	92.	1.00
5.	101.	92.	1.00
5.	100.	92.	1.00
5.	99.	92.	1.00
5.	98.	92.	1.00
5.	97.	92.	1.00
5.	97.	93.	1.00
5.	96.	93.	1.00
5.	95.	93.	1.00
5.	94.	93.	1.00
5.	93.	93.	1.00
5.	92.	93.	1.00
5.	91.	93.	1.00
5.	90.	93.	1.00
5.	89.	93.	1.00
5.	88.	93.	1.00
5.	87.	93.	1.00
5.	86.	93.	1.00
5.	85.	93.	1.00
5.	84.	93.	1.00
5.	83.	93.	1.00
5.	83.	94.	1.00
5.	82.	94.	1.00
5.	81.	94.	1.00
5.	80.	94.	1.00
5.	79.	94.	1.00
5.	78.	94.	1.00
5.	77.	94.	1.00
5.	76.	94.	1.00
5.	75.	94.	1.00

5.	74.	94.	1.00
5.	73.	94.	1.00
5.	72.	94.	1.00
5.	71.	94.	1.00
5.	70.	94.	1.00
5.	69.	94.	1.00
5.	68.	94.	1.00
5.	67.	94.	1.00
5.	66.	94.	1.00
5.	65.	94.	1.00
5.	64.	94.	1.00
5.	63.	94.	1.00
5.	62.	94.	1.00
5.	61.	94.	1.00
5.	60.	94.	1.00
5.	59.	94.	1.00
5.	58.	94.	1.00
5.	57.	94.	1.00
5.	56.	94.	1.00
5.	55.	94.	1.00
5.	54.	94.	1.00
5.	53.	94.	1.00
5.	52.	94.	1.00
5.	51.	94.	1.00
5.	50.	94.	1.00
5.	49.	94.	1.00
5.	48.	94.	1.00
5.	47.	94.	1.00
5.	47.	93.	1.00
5.	46.	93.	1.00
5.	45.	93.	1.00
5.	44.	93.	1.00
5.	43.	93.	1.00
5.	42.	93.	1.00
5.	41.	93.	1.00
5.	40.	93.	1.00
5.	39.	93.	1.00

GROUP NUMBER: 10 BOUNDARY TYPE: GHB NUMBER OF CELLS IN GROUP: 9
 NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.						
16	no_ghbf9	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
5.	103.	9.	0.00
5.	103.	9.	1.00
5.	104.	9.	1.00
5.	105.	9.	1.00
5.	105.	10.	1.00
5.	106.	10.	1.00
5.	107.	10.	1.00
5.	107.	11.	1.00

5. 108. 11. 1.00

CONSTANT-HEAD-CELL FLOW OBSERVATION VARIANCES ARE MULTIPLIED BY:
1.000

OBSERVED CONSTANT-HEAD-CELL FLOW DATA
-- TIME OFFSETS ARE MULTIPLIED BY: 1.0000

GROUP NUMBER: 11 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
89
NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.	17 no_chdf0	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
3.	6.	31.	0.43
3.	6.	32.	1.00
3.	6.	33.	1.00
3.	7.	33.	1.00
3.	7.	34.	1.00
3.	7.	35.	1.00
3.	7.	36.	1.00
3.	7.	37.	1.00
3.	7.	38.	1.00
3.	7.	39.	1.00
3.	7.	40.	1.00
3.	7.	41.	1.00
3.	7.	42.	1.00
3.	7.	43.	1.00
3.	7.	44.	1.00
3.	7.	45.	1.00
3.	7.	46.	1.00
3.	7.	47.	1.00
3.	7.	48.	1.00
3.	7.	49.	1.00
3.	7.	50.	1.00
3.	8.	50.	1.00
3.	8.	51.	1.00
3.	8.	52.	1.00
3.	8.	53.	1.00
3.	8.	54.	1.00
3.	8.	55.	1.00
3.	8.	56.	1.00
3.	8.	57.	1.00
3.	8.	58.	1.00
3.	8.	59.	1.00
3.	8.	60.	1.00
3.	8.	61.	1.00
3.	8.	62.	1.00
3.	8.	63.	1.00
3.	8.	64.	1.00
3.	9.	64.	1.00
3.	9.	65.	1.00

3.	9.	66.	1.00
3.	9.	67.	1.00
3.	9.	68.	1.00
3.	9.	69.	1.00
3.	9.	70.	1.00
3.	9.	71.	1.00
3.	9.	72.	1.00
3.	9.	73.	1.00
3.	10.	73.	1.00
3.	11.	73.	1.00
3.	11.	74.	1.00
3.	12.	74.	1.00
3.	12.	75.	1.00
3.	13.	75.	1.00
3.	13.	76.	1.00
3.	14.	76.	1.00
3.	14.	77.	1.00
3.	15.	77.	1.00
3.	15.	78.	1.00
3.	16.	78.	1.00
3.	16.	79.	1.00
3.	17.	79.	1.00
3.	18.	79.	1.00
3.	18.	80.	1.00
3.	19.	80.	1.00
3.	19.	81.	1.00
3.	20.	81.	1.00
3.	20.	82.	1.00
3.	21.	82.	1.00
3.	21.	83.	1.00
3.	22.	83.	1.00
3.	22.	84.	1.00
3.	23.	84.	1.00
3.	23.	85.	1.00
3.	24.	85.	1.00
3.	25.	85.	1.00
3.	25.	86.	1.00
3.	26.	86.	1.00
3.	26.	87.	1.00
3.	27.	87.	1.00
3.	27.	88.	1.00
3.	28.	88.	1.00
3.	28.	89.	1.00
3.	29.	89.	1.00
3.	29.	90.	1.00
3.	30.	90.	1.00
3.	30.	91.	1.00
3.	31.	91.	1.00
3.	32.	91.	1.00
3.	32.	92.	1.00
3.	33.	92.	0.25

GROUP NUMBER: 12 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 8
NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION STATISTIC	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR
PLOT			

OBS#	NAME	PERIOD	OFFSET	LOSS (+)	STATISTIC	TYPE
SYM.						
18	no_chdf1	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
3.	33.	92.	0.75
3.	34.	92.	1.00
3.	34.	93.	1.00
3.	35.	93.	1.00
3.	36.	93.	1.00
3.	37.	93.	1.00
3.	38.	93.	1.00
3.	39.	93.	0.34

GROUP NUMBER: 13 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 129
 NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION		REFER.	OBSERVED			
STATISTIC	PLOT	STRESS	TIME	BOUNDARY FLOW		
OBS#	NAME	PERIOD	OFFSET	LOSS (+)	STATISTIC	TYPE
SYM.						
19	no_chdf2	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
3.	103.	9.	0.92
3.	102.	9.	1.00
3.	102.	8.	1.00
3.	101.	8.	1.00
3.	100.	8.	1.00
3.	99.	8.	1.00
3.	98.	8.	1.00
3.	97.	8.	1.00
3.	96.	8.	1.00
3.	95.	8.	1.00
3.	95.	7.	1.00
3.	94.	7.	1.00
3.	93.	7.	1.00
3.	92.	7.	1.00
3.	91.	7.	1.00
3.	90.	7.	1.00
3.	89.	7.	1.00
3.	89.	6.	1.00
3.	88.	6.	1.00
3.	87.	6.	1.00
3.	86.	6.	1.00
3.	85.	6.	1.00
3.	84.	6.	1.00
3.	83.	6.	1.00
3.	82.	6.	1.00
3.	82.	5.	1.00
3.	81.	5.	1.00
3.	80.	5.	1.00
3.	79.	5.	1.00
3.	78.	5.	1.00
3.	77.	5.	1.00

3.	76.	5.	1.00
3.	75.	5.	1.00
3.	74.	5.	1.00
3.	73.	5.	1.00
3.	72.	5.	1.00
3.	71.	5.	1.00
3.	70.	5.	1.00
3.	69.	5.	1.00
3.	68.	5.	1.00
3.	67.	5.	1.00
3.	67.	4.	1.00
3.	66.	5.	1.00
3.	65.	5.	1.00
3.	64.	5.	1.00
3.	63.	5.	1.00
3.	62.	5.	1.00
3.	61.	5.	1.00
3.	60.	5.	1.00
3.	59.	5.	1.00
3.	58.	5.	1.00
3.	57.	5.	1.00
3.	56.	5.	1.00
3.	55.	5.	1.00
3.	54.	5.	1.00
3.	53.	5.	1.00
3.	52.	5.	1.00
3.	51.	5.	1.00
3.	51.	6.	1.00
3.	50.	6.	1.00
3.	49.	6.	1.00
3.	48.	6.	1.00
3.	47.	6.	1.00
3.	46.	6.	1.00
3.	45.	6.	1.00
3.	44.	6.	1.00
3.	43.	6.	1.00
3.	42.	6.	1.00
3.	41.	6.	1.00
3.	40.	6.	1.00
3.	39.	6.	1.00
3.	38.	6.	1.00
3.	37.	6.	1.00
3.	36.	6.	1.00
3.	36.	7.	1.00
3.	35.	7.	1.00
3.	34.	7.	1.00
3.	33.	7.	1.00
3.	32.	7.	1.00
3.	32.	8.	1.00
3.	31.	8.	1.00
3.	30.	8.	1.00
3.	30.	9.	1.00
3.	29.	9.	1.00
3.	28.	9.	1.00
3.	28.	10.	1.00
3.	27.	10.	1.00
3.	26.	10.	1.00
3.	26.	11.	1.00
3.	25.	11.	1.00
3.	24.	11.	1.00

3.	24.	12.	1.00
3.	23.	12.	1.00
3.	22.	12.	1.00
3.	22.	13.	1.00
3.	21.	13.	1.00
3.	20.	13.	1.00
3.	20.	14.	1.00
3.	19.	14.	1.00
3.	18.	14.	1.00
3.	18.	15.	1.00
3.	17.	15.	1.00
3.	16.	15.	1.00
3.	16.	16.	1.00
3.	15.	16.	1.00
3.	15.	17.	1.00
3.	14.	17.	1.00
3.	14.	18.	1.00
3.	13.	18.	1.00
3.	13.	19.	1.00
3.	13.	20.	1.00
3.	12.	20.	1.00
3.	12.	21.	1.00
3.	12.	22.	1.00
3.	11.	22.	1.00
3.	11.	23.	1.00
3.	11.	24.	1.00
3.	10.	24.	1.00
3.	10.	25.	1.00
3.	9.	25.	1.00
3.	9.	26.	1.00
3.	9.	27.	1.00
3.	8.	27.	1.00
3.	8.	28.	1.00
3.	8.	29.	1.00
3.	7.	29.	1.00
3.	7.	30.	1.00
3.	7.	31.	1.00
3.	6.	31.	0.57

GROUP NUMBER: 14 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
202

NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.	OBS# NAME	PERIOD	OFFSET			
DEV.	20 no_chdf3 1	1	0.000	1.000	0.1000E+20	STD.

LAYER	ROW	COLUMN	FACTOR
3.	39.	93.	0.66
3.	40.	93.	1.00
3.	41.	93.	1.00
3.	42.	93.	1.00
3.	43.	93.	1.00
3.	44.	93.	1.00
3.	45.	93.	1.00

3.	46.	93.	1.00
3.	47.	93.	1.00
3.	47.	94.	1.00
3.	48.	94.	1.00
3.	49.	94.	1.00
3.	50.	94.	1.00
3.	51.	94.	1.00
3.	52.	94.	1.00
3.	53.	94.	1.00
3.	54.	94.	1.00
3.	55.	94.	1.00
3.	56.	94.	1.00
3.	57.	94.	1.00
3.	58.	94.	1.00
3.	59.	94.	1.00
3.	60.	94.	1.00
3.	61.	94.	1.00
3.	62.	94.	1.00
3.	63.	94.	1.00
3.	64.	94.	1.00
3.	65.	94.	1.00
3.	66.	94.	1.00
3.	67.	94.	1.00
3.	68.	94.	1.00
3.	69.	94.	1.00
3.	70.	94.	1.00
3.	71.	94.	1.00
3.	72.	94.	1.00
3.	73.	94.	1.00
3.	74.	94.	1.00
3.	75.	94.	1.00
3.	76.	94.	1.00
3.	77.	94.	1.00
3.	78.	94.	1.00
3.	79.	94.	1.00
3.	80.	94.	1.00
3.	81.	94.	1.00
3.	82.	94.	1.00
3.	83.	94.	1.00
3.	83.	93.	1.00
3.	84.	93.	1.00
3.	85.	93.	1.00
3.	86.	93.	1.00
3.	87.	93.	1.00
3.	88.	93.	1.00
3.	89.	93.	1.00
3.	90.	93.	1.00
3.	91.	93.	1.00
3.	92.	93.	1.00
3.	93.	93.	1.00
3.	94.	93.	1.00
3.	95.	93.	1.00
3.	96.	93.	1.00
3.	97.	93.	1.00
3.	97.	92.	1.00
3.	98.	92.	1.00
3.	99.	92.	1.00
3.	100.	92.	1.00
3.	101.	92.	1.00
3.	102.	92.	1.00

3.	103.	92.	1.00
3.	103.	91.	1.00
3.	104.	91.	1.00
3.	105.	91.	1.00
3.	105.	90.	1.00
3.	106.	90.	1.00
3.	107.	90.	1.00
3.	107.	89.	1.00
3.	108.	89.	1.00
3.	109.	89.	1.00
3.	109.	88.	1.00
3.	110.	88.	1.00
3.	111.	88.	1.00
3.	111.	87.	1.00
3.	112.	87.	1.00
3.	113.	87.	1.00
3.	113.	86.	1.00
3.	114.	86.	1.00
3.	115.	86.	1.00
3.	115.	85.	1.00
3.	116.	85.	1.00
3.	117.	85.	1.00
3.	117.	84.	1.00
3.	118.	84.	1.00
3.	119.	84.	1.00
3.	119.	83.	1.00
3.	120.	83.	1.00
3.	120.	82.	1.00
3.	121.	82.	1.00
3.	122.	82.	1.00
3.	122.	81.	1.00
3.	123.	81.	1.00
3.	124.	81.	1.00
3.	124.	80.	1.00
3.	125.	80.	1.00
3.	125.	79.	1.00
3.	126.	79.	1.00
3.	126.	78.	1.00
3.	126.	77.	1.00
3.	126.	76.	1.00
3.	126.	75.	1.00
3.	127.	75.	1.00
3.	127.	74.	1.00
3.	127.	73.	1.00
3.	127.	72.	1.00
3.	127.	71.	1.00
3.	128.	71.	1.00
3.	128.	70.	1.00
3.	128.	69.	1.00
3.	128.	68.	1.00
3.	128.	67.	1.00
3.	129.	67.	1.00
3.	129.	66.	1.00
3.	129.	65.	1.00
3.	129.	64.	1.00
3.	129.	63.	1.00
3.	130.	63.	1.00
3.	130.	62.	1.00
3.	130.	61.	1.00
3.	130.	60.	1.00

3.	130.	59.	1.00
3.	131.	59.	1.00
3.	131.	58.	1.00
3.	131.	57.	1.00
3.	131.	56.	1.00
3.	131.	55.	1.00
3.	131.	54.	1.00
3.	131.	53.	1.00
3.	132.	53.	1.00
3.	132.	52.	1.00
3.	132.	51.	1.00
3.	132.	50.	1.00
3.	132.	49.	1.00
3.	131.	49.	1.00
3.	131.	48.	1.00
3.	131.	47.	1.00
3.	131.	46.	1.00
3.	131.	45.	1.00
3.	131.	44.	1.00
3.	131.	43.	1.00
3.	131.	42.	1.00
3.	131.	41.	1.00
3.	130.	41.	1.00
3.	130.	40.	1.00
3.	130.	39.	1.00
3.	130.	38.	1.00
3.	130.	37.	1.00
3.	130.	36.	1.00
3.	129.	36.	1.00
3.	129.	35.	1.00
3.	129.	34.	1.00
3.	129.	33.	1.00
3.	128.	33.	1.00
3.	128.	32.	1.00
3.	128.	31.	1.00
3.	128.	30.	1.00
3.	128.	29.	1.00
3.	127.	29.	1.00
3.	127.	28.	1.00
3.	127.	27.	1.00
3.	127.	26.	1.00
3.	126.	26.	1.00
3.	126.	25.	1.00
3.	126.	24.	1.00
3.	126.	23.	1.00
3.	126.	22.	1.00
3.	125.	22.	1.00
3.	125.	21.	1.00
3.	125.	20.	1.00
3.	124.	20.	1.00
3.	124.	19.	1.00
3.	123.	19.	1.00
3.	122.	19.	1.00
3.	122.	18.	1.00
3.	121.	18.	1.00
3.	120.	18.	1.00
3.	120.	17.	1.00
3.	119.	17.	1.00
3.	118.	17.	1.00
3.	118.	16.	1.00

3.	117.	16.	1.00
3.	116.	16.	1.00
3.	116.	15.	1.00
3.	115.	15.	1.00
3.	114.	15.	1.00
3.	114.	14.	1.00
3.	113.	14.	1.00
3.	113.	13.	1.00
3.	112.	13.	1.00
3.	111.	13.	1.00
3.	111.	12.	1.00
3.	110.	12.	1.00
3.	109.	12.	1.00
3.	109.	11.	1.00
3.	108.	11.	0.67

GROUP NUMBER: 15 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
8
NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION		REFER.	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR		
STATISTIC	PLOT	STRESS				
OBS#	NAME	PERIOD	OFFSET	LOSS (+)	STATISTIC	TYPE
SYM.						
21	no_chdf4	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
3.	108.	11.	0.33
3.	107.	11.	1.00
3.	107.	10.	1.00
3.	106.	10.	1.00
3.	105.	10.	1.00
3.	105.	9.	1.00
3.	104.	9.	1.00
3.	103.	9.	0.08

GROUP NUMBER: 16 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
89
NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION		REFER.	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR		
STATISTIC	PLOT	STRESS				
OBS#	NAME	PERIOD	OFFSET	LOSS (+)	STATISTIC	TYPE
SYM.						
22	no_chdf5	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
1.	6.	31.	0.43
1.	6.	32.	1.00
1.	6.	33.	1.00
1.	7.	33.	1.00
1.	7.	34.	1.00
1.	7.	35.	1.00
1.	7.	36.	1.00

1.	7.	37.	1.00
1.	7.	38.	1.00
1.	7.	39.	1.00
1.	7.	40.	1.00
1.	7.	41.	1.00
1.	7.	42.	1.00
1.	7.	43.	1.00
1.	7.	44.	1.00
1.	7.	45.	1.00
1.	7.	46.	1.00
1.	7.	47.	1.00
1.	7.	48.	1.00
1.	7.	49.	1.00
1.	7.	50.	1.00
1.	8.	50.	1.00
1.	8.	51.	1.00
1.	8.	52.	1.00
1.	8.	53.	1.00
1.	8.	54.	1.00
1.	8.	55.	1.00
1.	8.	56.	1.00
1.	8.	57.	1.00
1.	8.	58.	1.00
1.	8.	59.	1.00
1.	8.	60.	1.00
1.	8.	61.	1.00
1.	8.	62.	1.00
1.	8.	63.	1.00
1.	8.	64.	1.00
1.	9.	64.	1.00
1.	9.	65.	1.00
1.	9.	66.	1.00
1.	9.	67.	1.00
1.	9.	68.	1.00
1.	9.	69.	1.00
1.	9.	70.	1.00
1.	9.	71.	1.00
1.	9.	72.	1.00
1.	9.	73.	1.00
1.	10.	73.	1.00
1.	11.	73.	1.00
1.	11.	74.	1.00
1.	12.	74.	1.00
1.	12.	75.	1.00
1.	13.	75.	1.00
1.	13.	76.	1.00
1.	14.	76.	1.00
1.	14.	77.	1.00
1.	15.	77.	1.00
1.	15.	78.	1.00
1.	16.	78.	1.00
1.	16.	79.	1.00
1.	17.	79.	1.00
1.	18.	79.	1.00
1.	18.	80.	1.00
1.	19.	80.	1.00
1.	19.	81.	1.00
1.	20.	81.	1.00
1.	20.	82.	1.00
1.	21.	82.	1.00

1.	21.	83.	1.00
1.	22.	83.	1.00
1.	22.	84.	1.00
1.	23.	84.	1.00
1.	23.	85.	1.00
1.	24.	85.	1.00
1.	25.	85.	1.00
1.	25.	86.	1.00
1.	26.	86.	1.00
1.	26.	87.	1.00
1.	27.	87.	1.00
1.	27.	88.	1.00
1.	28.	88.	1.00
1.	28.	89.	1.00
1.	29.	89.	1.00
1.	29.	90.	1.00
1.	30.	90.	1.00
1.	30.	91.	1.00
1.	31.	91.	1.00
1.	32.	91.	1.00
1.	32.	92.	1.00
1.	33.	92.	0.25

GROUP NUMBER: 17 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
8
NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.	23 no_chdf6	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
1.	33.	92.	0.75
1.	34.	92.	1.00
1.	34.	93.	1.00
1.	35.	93.	1.00
1.	36.	93.	1.00
1.	37.	93.	1.00
1.	38.	93.	1.00
1.	39.	93.	0.34

GROUP NUMBER: 18 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
129
NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.	24 no_chdf7	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
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1.	103.	9.	0.92
1.	102.	9.	1.00
1.	102.	8.	1.00
1.	101.	8.	1.00
1.	100.	8.	1.00
1.	99.	8.	1.00
1.	98.	8.	1.00
1.	97.	8.	1.00
1.	96.	8.	1.00
1.	95.	8.	1.00
1.	95.	7.	1.00
1.	94.	7.	1.00
1.	93.	7.	1.00
1.	92.	7.	1.00
1.	91.	7.	1.00
1.	90.	7.	1.00
1.	89.	7.	1.00
1.	89.	6.	1.00
1.	88.	6.	1.00
1.	87.	6.	1.00
1.	86.	6.	1.00
1.	85.	6.	1.00
1.	84.	6.	1.00
1.	83.	6.	1.00
1.	82.	6.	1.00
1.	82.	5.	1.00
1.	81.	5.	1.00
1.	80.	5.	1.00
1.	79.	5.	1.00
1.	78.	5.	1.00
1.	77.	5.	1.00
1.	76.	5.	1.00
1.	75.	5.	1.00
1.	74.	5.	1.00
1.	73.	5.	1.00
1.	72.	5.	1.00
1.	71.	5.	1.00
1.	70.	5.	1.00
1.	69.	5.	1.00
1.	68.	5.	1.00
1.	67.	5.	1.00
1.	67.	4.	1.00
1.	66.	5.	1.00
1.	65.	5.	1.00
1.	64.	5.	1.00
1.	63.	5.	1.00
1.	62.	5.	1.00
1.	61.	5.	1.00
1.	60.	5.	1.00
1.	59.	5.	1.00
1.	58.	5.	1.00
1.	57.	5.	1.00
1.	56.	5.	1.00
1.	55.	5.	1.00
1.	54.	5.	1.00
1.	53.	5.	1.00
1.	52.	5.	1.00
1.	51.	5.	1.00
1.	51.	6.	1.00
1.	50.	6.	1.00

1.	49.	6.	1.00
1.	48.	6.	1.00
1.	47.	6.	1.00
1.	46.	6.	1.00
1.	45.	6.	1.00
1.	44.	6.	1.00
1.	43.	6.	1.00
1.	42.	6.	1.00
1.	41.	6.	1.00
1.	40.	6.	1.00
1.	39.	6.	1.00
1.	38.	6.	1.00
1.	37.	6.	1.00
1.	36.	6.	1.00
1.	36.	7.	1.00
1.	35.	7.	1.00
1.	34.	7.	1.00
1.	33.	7.	1.00
1.	32.	7.	1.00
1.	32.	8.	1.00
1.	31.	8.	1.00
1.	30.	8.	1.00
1.	30.	9.	1.00
1.	29.	9.	1.00
1.	28.	9.	1.00
1.	28.	10.	1.00
1.	27.	10.	1.00
1.	26.	10.	1.00
1.	26.	11.	1.00
1.	25.	11.	1.00
1.	24.	11.	1.00
1.	24.	12.	1.00
1.	23.	12.	1.00
1.	22.	12.	1.00
1.	22.	13.	1.00
1.	21.	13.	1.00
1.	20.	13.	1.00
1.	20.	14.	1.00
1.	19.	14.	1.00
1.	18.	14.	1.00
1.	18.	15.	1.00
1.	17.	15.	1.00
1.	16.	15.	1.00
1.	16.	16.	1.00
1.	15.	16.	1.00
1.	15.	17.	1.00
1.	14.	17.	1.00
1.	14.	18.	1.00
1.	13.	18.	1.00
1.	13.	19.	1.00
1.	13.	20.	1.00
1.	12.	20.	1.00
1.	12.	21.	1.00
1.	12.	22.	1.00
1.	11.	22.	1.00
1.	11.	23.	1.00
1.	11.	24.	1.00
1.	10.	24.	1.00
1.	10.	25.	1.00
1.	9.	25.	1.00

1.	9.	26.	1.00
1.	9.	27.	1.00
1.	8.	27.	1.00
1.	8.	28.	1.00
1.	8.	29.	1.00
1.	7.	29.	1.00
1.	7.	30.	1.00
1.	7.	31.	1.00
1.	6.	31.	0.57

GROUP NUMBER: 19 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
138
NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION		REFER.	TIME	OBSERVED		
STATISTIC	PLOT	STRESS		BOUNDARY FLOW		
OBS#	NAME	PERIOD	OFFSET	LOSS (+)	STATISTIC	TYPE
25	no_chdf8	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
1.	39.	93.	0.66
1.	40.	93.	1.00
1.	41.	93.	1.00
1.	42.	93.	1.00
1.	43.	93.	1.00
1.	44.	93.	1.00
1.	45.	93.	1.00
1.	46.	93.	1.00
1.	47.	93.	1.00
1.	47.	94.	1.00
1.	48.	94.	1.00
1.	49.	94.	1.00
1.	50.	94.	1.00
1.	51.	94.	1.00
1.	52.	94.	1.00
1.	53.	94.	1.00
1.	54.	94.	1.00
1.	55.	94.	1.00
1.	56.	94.	1.00
1.	57.	94.	1.00
1.	58.	94.	1.00
1.	59.	94.	1.00
1.	60.	94.	1.00
1.	61.	94.	1.00
1.	62.	94.	1.00
1.	63.	94.	1.00
1.	64.	94.	1.00
1.	65.	94.	1.00
1.	66.	94.	1.00
1.	67.	94.	1.00
1.	68.	94.	1.00
1.	69.	94.	1.00
1.	70.	94.	1.00
1.	71.	94.	1.00
1.	72.	94.	1.00
1.	73.	94.	1.00

1.	74.	94.	1.00
1.	75.	94.	1.00
1.	76.	94.	1.00
1.	77.	94.	1.00
1.	78.	94.	1.00
1.	79.	94.	1.00
1.	80.	94.	1.00
1.	81.	94.	1.00
1.	82.	94.	1.00
1.	83.	94.	1.00
1.	83.	93.	1.00
1.	84.	93.	1.00
1.	85.	93.	1.00
1.	86.	93.	1.00
1.	87.	93.	1.00
1.	88.	93.	1.00
1.	89.	93.	1.00
1.	90.	93.	1.00
1.	91.	93.	1.00
1.	92.	93.	1.00
1.	93.	93.	1.00
1.	94.	93.	1.00
1.	95.	93.	1.00
1.	96.	93.	1.00
1.	97.	93.	1.00
1.	97.	92.	1.00
1.	98.	92.	1.00
1.	99.	92.	1.00
1.	100.	92.	1.00
1.	101.	92.	1.00
1.	102.	92.	1.00
1.	103.	92.	1.00
1.	103.	91.	1.00
1.	104.	91.	1.00
1.	105.	91.	1.00
1.	105.	90.	1.00
1.	106.	90.	1.00
1.	107.	90.	1.00
1.	107.	89.	1.00
1.	108.	89.	1.00
1.	109.	89.	1.00
1.	109.	88.	1.00
1.	110.	88.	1.00
1.	111.	88.	1.00
1.	111.	87.	1.00
1.	112.	87.	1.00
1.	113.	87.	1.00
1.	113.	86.	1.00
1.	114.	86.	1.00
1.	115.	86.	1.00
1.	115.	85.	1.00
1.	116.	85.	1.00
1.	117.	85.	1.00
1.	117.	84.	1.00
1.	118.	84.	1.00
1.	119.	84.	1.00
1.	119.	83.	1.00
1.	120.	83.	1.00
1.	120.	82.	1.00
1.	121.	82.	1.00

1.	122.	82.	1.00
1.	122.	81.	1.00
1.	123.	81.	1.00
1.	124.	81.	1.00
1.	124.	80.	1.00
1.	125.	80.	1.00
1.	125.	79.	1.00
1.	126.	79.	1.00
1.	126.	78.	1.00
1.	126.	77.	1.00
1.	126.	76.	1.00
1.	126.	75.	1.00
1.	127.	75.	1.00
1.	127.	74.	1.00
1.	127.	73.	1.00
1.	127.	72.	1.00
1.	127.	71.	1.00
1.	128.	71.	1.00
1.	128.	70.	1.00
1.	128.	69.	1.00
1.	128.	68.	1.00
1.	128.	67.	1.00
1.	129.	67.	1.00
1.	129.	66.	1.00
1.	129.	65.	1.00
1.	129.	64.	1.00
1.	129.	63.	1.00
1.	130.	63.	1.00
1.	130.	62.	1.00
1.	130.	61.	1.00
1.	130.	60.	1.00
1.	130.	59.	1.00
1.	131.	59.	1.00
1.	131.	58.	1.00
1.	131.	57.	1.00
1.	131.	56.	1.00
1.	131.	55.	1.00
1.	131.	54.	1.00
1.	131.	53.	1.00
1.	132.	53.	1.00
1.	132.	52.	1.00
1.	132.	51.	0.56

GROUP NUMBER: 20 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 8
 NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION		REFER.	OBSERVED			
STATISTIC	PLOT	STRESS	TIME	BOUNDARY FLOW		
OBS#	NAME	PERIOD	OFFSET	LOSS (+)	STATISTIC	TYPE
26	no_chdf9	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
1.	108.	11.	0.33
1.	107.	11.	1.00
1.	107.	10.	1.00

1.	106.	10.	1.00
1.	105.	10.	1.00
1.	105.	9.	1.00
1.	104.	9.	1.00
1.	103.	9.	0.08

GROUP NUMBER: 21 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
65
NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION		REFER.	TIME	OBSERVED BOUNDARY FLOW		
STATISTIC	PLOT	STRESS		GAIN (-) OR		
OBS#	NAME	PERIOD	OFFSET	LOSS (+)	STATISTIC	TYPE
27	no_chdf10	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
1.	132.	51.	0.44
1.	132.	50.	1.00
1.	132.	49.	1.00
1.	131.	49.	1.00
1.	131.	48.	1.00
1.	131.	47.	1.00
1.	131.	46.	1.00
1.	131.	45.	1.00
1.	131.	44.	1.00
1.	131.	43.	1.00
1.	131.	42.	1.00
1.	131.	41.	1.00
1.	130.	41.	1.00
1.	130.	40.	1.00
1.	130.	39.	1.00
1.	130.	38.	1.00
1.	130.	37.	1.00
1.	130.	36.	1.00
1.	129.	36.	1.00
1.	129.	35.	1.00
1.	129.	34.	1.00
1.	129.	33.	1.00
1.	128.	33.	1.00
1.	128.	32.	1.00
1.	128.	31.	1.00
1.	128.	30.	1.00
1.	128.	29.	1.00
1.	127.	29.	1.00
1.	127.	28.	1.00
1.	127.	27.	1.00
1.	127.	26.	1.00
1.	126.	26.	1.00
1.	126.	25.	1.00
1.	126.	24.	1.00
1.	126.	23.	1.00
1.	126.	22.	1.00
1.	125.	22.	1.00
1.	125.	21.	1.00
1.	125.	20.	1.00
1.	124.	20.	1.00

1.	124.	19.	1.00
1.	123.	19.	1.00
1.	122.	19.	1.00
1.	122.	18.	1.00
1.	121.	18.	1.00
1.	120.	18.	1.00
1.	120.	17.	1.00
1.	119.	17.	1.00
1.	118.	17.	1.00
1.	118.	16.	1.00
1.	117.	16.	1.00
1.	116.	16.	1.00
1.	116.	15.	1.00
1.	115.	15.	1.00
1.	114.	15.	1.00
1.	114.	14.	1.00
1.	113.	14.	1.00
1.	113.	13.	1.00
1.	112.	13.	1.00
1.	111.	13.	1.00
1.	111.	12.	1.00
1.	110.	12.	1.00
1.	109.	12.	1.00
1.	109.	11.	1.00
1.	108.	11.	0.67

GROUP NUMBER: 22 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
89
NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION		REFER.	TIME	OBSERVED		
STATISTIC	PLOT	STRESS		BOUNDARY FLOW		
OBS#	NAME	PERIOD	OFFSET	LOSS (+)	STATISTIC	TYPE
SYM.	28 no_chdf11	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
2.	6.	31.	0.43
2.	6.	32.	1.00
2.	6.	33.	1.00
2.	7.	33.	1.00
2.	7.	34.	1.00
2.	7.	35.	1.00
2.	7.	36.	1.00
2.	7.	37.	1.00
2.	7.	38.	1.00
2.	7.	39.	1.00
2.	7.	40.	1.00
2.	7.	41.	1.00
2.	7.	42.	1.00
2.	7.	43.	1.00
2.	7.	44.	1.00
2.	7.	45.	1.00
2.	7.	46.	1.00
2.	7.	47.	1.00
2.	7.	48.	1.00
2.	7.	49.	1.00

2.	7.	50.	1.00
2.	8.	50.	1.00
2.	8.	51.	1.00
2.	8.	52.	1.00
2.	8.	53.	1.00
2.	8.	54.	1.00
2.	8.	55.	1.00
2.	8.	56.	1.00
2.	8.	57.	1.00
2.	8.	58.	1.00
2.	8.	59.	1.00
2.	8.	60.	1.00
2.	8.	61.	1.00
2.	8.	62.	1.00
2.	8.	63.	1.00
2.	8.	64.	1.00
2.	9.	64.	1.00
2.	9.	65.	1.00
2.	9.	66.	1.00
2.	9.	67.	1.00
2.	9.	68.	1.00
2.	9.	69.	1.00
2.	9.	70.	1.00
2.	9.	71.	1.00
2.	9.	72.	1.00
2.	9.	73.	1.00
2.	10.	73.	1.00
2.	11.	73.	1.00
2.	11.	74.	1.00
2.	12.	74.	1.00
2.	12.	75.	1.00
2.	13.	75.	1.00
2.	13.	76.	1.00
2.	14.	76.	1.00
2.	14.	77.	1.00
2.	15.	77.	1.00
2.	15.	78.	1.00
2.	16.	78.	1.00
2.	16.	79.	1.00
2.	17.	79.	1.00
2.	18.	79.	1.00
2.	18.	80.	1.00
2.	19.	80.	1.00
2.	19.	81.	1.00
2.	20.	81.	1.00
2.	20.	82.	1.00
2.	21.	82.	1.00
2.	21.	83.	1.00
2.	22.	83.	1.00
2.	22.	84.	1.00
2.	23.	84.	1.00
2.	23.	85.	1.00
2.	24.	85.	1.00
2.	25.	85.	1.00
2.	25.	86.	1.00
2.	26.	86.	1.00
2.	26.	87.	1.00
2.	27.	87.	1.00
2.	27.	88.	1.00
2.	28.	88.	1.00

2.	28.	89.	1.00
2.	29.	89.	1.00
2.	29.	90.	1.00
2.	30.	90.	1.00
2.	30.	91.	1.00
2.	31.	91.	1.00
2.	32.	91.	1.00
2.	32.	92.	1.00
2.	33.	92.	0.25

GROUP NUMBER: 23 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
8
NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.	OBS# NAME	PERIOD	OFFSET			
DEV.	29 no_chdf12	1	0.000	1.000	0.1000E+20	STD.
	1					

LAYER	ROW	COLUMN	FACTOR
2.	33.	92.	0.75
2.	34.	92.	1.00
2.	34.	93.	1.00
2.	35.	93.	1.00
2.	36.	93.	1.00
2.	37.	93.	1.00
2.	38.	93.	1.00
2.	39.	93.	0.34

GROUP NUMBER: 24 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
129
NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.	OBS# NAME	PERIOD	OFFSET			
DEV.	30 no_chdf13	1	0.000	1.000	0.1000E+20	STD.
	1					

LAYER	ROW	COLUMN	FACTOR
2.	103.	9.	0.92
2.	102.	9.	1.00
2.	102.	8.	1.00
2.	101.	8.	1.00
2.	100.	8.	1.00
2.	99.	8.	1.00
2.	98.	8.	1.00
2.	97.	8.	1.00
2.	96.	8.	1.00
2.	95.	8.	1.00
2.	95.	7.	1.00
2.	94.	7.	1.00
2.	93.	7.	1.00

2.	92.	7.	1.00
2.	91.	7.	1.00
2.	90.	7.	1.00
2.	89.	7.	1.00
2.	89.	6.	1.00
2.	88.	6.	1.00
2.	87.	6.	1.00
2.	86.	6.	1.00
2.	85.	6.	1.00
2.	84.	6.	1.00
2.	83.	6.	1.00
2.	82.	6.	1.00
2.	82.	5.	1.00
2.	81.	5.	1.00
2.	80.	5.	1.00
2.	79.	5.	1.00
2.	78.	5.	1.00
2.	77.	5.	1.00
2.	76.	5.	1.00
2.	75.	5.	1.00
2.	74.	5.	1.00
2.	73.	5.	1.00
2.	72.	5.	1.00
2.	71.	5.	1.00
2.	70.	5.	1.00
2.	69.	5.	1.00
2.	68.	5.	1.00
2.	67.	5.	1.00
2.	67.	4.	1.00
2.	66.	5.	1.00
2.	65.	5.	1.00
2.	64.	5.	1.00
2.	63.	5.	1.00
2.	62.	5.	1.00
2.	61.	5.	1.00
2.	60.	5.	1.00
2.	59.	5.	1.00
2.	58.	5.	1.00
2.	57.	5.	1.00
2.	56.	5.	1.00
2.	55.	5.	1.00
2.	54.	5.	1.00
2.	53.	5.	1.00
2.	52.	5.	1.00
2.	51.	5.	1.00
2.	51.	6.	1.00
2.	50.	6.	1.00
2.	49.	6.	1.00
2.	48.	6.	1.00
2.	47.	6.	1.00
2.	46.	6.	1.00
2.	45.	6.	1.00
2.	44.	6.	1.00
2.	43.	6.	1.00
2.	42.	6.	1.00
2.	41.	6.	1.00
2.	40.	6.	1.00
2.	39.	6.	1.00
2.	38.	6.	1.00
2.	37.	6.	1.00

2.	36.	6.	1.00
2.	36.	7.	1.00
2.	35.	7.	1.00
2.	34.	7.	1.00
2.	33.	7.	1.00
2.	32.	7.	1.00
2.	32.	8.	1.00
2.	31.	8.	1.00
2.	30.	8.	1.00
2.	30.	9.	1.00
2.	29.	9.	1.00
2.	28.	9.	1.00
2.	28.	10.	1.00
2.	27.	10.	1.00
2.	26.	10.	1.00
2.	26.	11.	1.00
2.	25.	11.	1.00
2.	24.	11.	1.00
2.	24.	12.	1.00
2.	23.	12.	1.00
2.	22.	12.	1.00
2.	22.	13.	1.00
2.	21.	13.	1.00
2.	20.	13.	1.00
2.	20.	14.	1.00
2.	19.	14.	1.00
2.	18.	14.	1.00
2.	18.	15.	1.00
2.	17.	15.	1.00
2.	16.	15.	1.00
2.	16.	16.	1.00
2.	15.	16.	1.00
2.	15.	17.	1.00
2.	14.	17.	1.00
2.	14.	18.	1.00
2.	13.	18.	1.00
2.	13.	19.	1.00
2.	13.	20.	1.00
2.	12.	20.	1.00
2.	12.	21.	1.00
2.	12.	22.	1.00
2.	11.	22.	1.00
2.	11.	23.	1.00
2.	11.	24.	1.00
2.	10.	24.	1.00
2.	10.	25.	1.00
2.	9.	25.	1.00
2.	9.	26.	1.00
2.	9.	27.	1.00
2.	8.	27.	1.00
2.	8.	28.	1.00
2.	8.	29.	1.00
2.	7.	29.	1.00
2.	7.	30.	1.00
2.	7.	31.	1.00
2.	6.	31.	0.57

GROUP NUMBER: 25 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
202
NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION		REFER.	OBSERVED			
STATISTIC	PLOT	STRESS	TIME	BOUNDARY FLOW		
OBS#	NAME	PERIOD	OFFSET	GAIN (-) OR	LOSS (+)	STATISTIC
SYM.						TYPE
31	no_chdf14	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
2.	39.	93.	0.66
2.	40.	93.	1.00
2.	41.	93.	1.00
2.	42.	93.	1.00
2.	43.	93.	1.00
2.	44.	93.	1.00
2.	45.	93.	1.00
2.	46.	93.	1.00
2.	47.	93.	1.00
2.	47.	94.	1.00
2.	48.	94.	1.00
2.	49.	94.	1.00
2.	50.	94.	1.00
2.	51.	94.	1.00
2.	52.	94.	1.00
2.	53.	94.	1.00
2.	54.	94.	1.00
2.	55.	94.	1.00
2.	56.	94.	1.00
2.	57.	94.	1.00
2.	58.	94.	1.00
2.	59.	94.	1.00
2.	60.	94.	1.00
2.	61.	94.	1.00
2.	62.	94.	1.00
2.	63.	94.	1.00
2.	64.	94.	1.00
2.	65.	94.	1.00
2.	66.	94.	1.00
2.	67.	94.	1.00
2.	68.	94.	1.00
2.	69.	94.	1.00
2.	70.	94.	1.00
2.	71.	94.	1.00
2.	72.	94.	1.00
2.	73.	94.	1.00
2.	74.	94.	1.00
2.	75.	94.	1.00
2.	76.	94.	1.00
2.	77.	94.	1.00
2.	78.	94.	1.00
2.	79.	94.	1.00
2.	80.	94.	1.00
2.	81.	94.	1.00
2.	82.	94.	1.00
2.	83.	94.	1.00
2.	83.	93.	1.00
2.	84.	93.	1.00
2.	85.	93.	1.00

2.	86.	93.	1.00
2.	87.	93.	1.00
2.	88.	93.	1.00
2.	89.	93.	1.00
2.	90.	93.	1.00
2.	91.	93.	1.00
2.	92.	93.	1.00
2.	93.	93.	1.00
2.	94.	93.	1.00
2.	95.	93.	1.00
2.	96.	93.	1.00
2.	97.	93.	1.00
2.	97.	92.	1.00
2.	98.	92.	1.00
2.	99.	92.	1.00
2.	100.	92.	1.00
2.	101.	92.	1.00
2.	102.	92.	1.00
2.	103.	92.	1.00
2.	103.	91.	1.00
2.	104.	91.	1.00
2.	105.	91.	1.00
2.	105.	90.	1.00
2.	106.	90.	1.00
2.	107.	90.	1.00
2.	107.	89.	1.00
2.	108.	89.	1.00
2.	109.	89.	1.00
2.	109.	88.	1.00
2.	110.	88.	1.00
2.	111.	88.	1.00
2.	111.	87.	1.00
2.	112.	87.	1.00
2.	113.	87.	1.00
2.	113.	86.	1.00
2.	114.	86.	1.00
2.	115.	86.	1.00
2.	115.	85.	1.00
2.	116.	85.	1.00
2.	117.	85.	1.00
2.	117.	84.	1.00
2.	118.	84.	1.00
2.	119.	84.	1.00
2.	119.	83.	1.00
2.	120.	83.	1.00
2.	120.	82.	1.00
2.	121.	82.	1.00
2.	122.	82.	1.00
2.	122.	81.	1.00
2.	123.	81.	1.00
2.	124.	81.	1.00
2.	124.	80.	1.00
2.	125.	80.	1.00
2.	125.	79.	1.00
2.	126.	79.	1.00
2.	126.	78.	1.00
2.	126.	77.	1.00
2.	126.	76.	1.00
2.	126.	75.	1.00
2.	127.	75.	1.00

2.	127.	74.	1.00
2.	127.	73.	1.00
2.	127.	72.	1.00
2.	127.	71.	1.00
2.	128.	71.	1.00
2.	128.	70.	1.00
2.	128.	69.	1.00
2.	128.	68.	1.00
2.	128.	67.	1.00
2.	129.	67.	1.00
2.	129.	66.	1.00
2.	129.	65.	1.00
2.	129.	64.	1.00
2.	129.	63.	1.00
2.	130.	63.	1.00
2.	130.	62.	1.00
2.	130.	61.	1.00
2.	130.	60.	1.00
2.	130.	59.	1.00
2.	131.	59.	1.00
2.	131.	58.	1.00
2.	131.	57.	1.00
2.	131.	56.	1.00
2.	131.	55.	1.00
2.	131.	54.	1.00
2.	131.	53.	1.00
2.	132.	53.	1.00
2.	132.	52.	1.00
2.	132.	51.	1.00
2.	132.	50.	1.00
2.	132.	49.	1.00
2.	131.	49.	1.00
2.	131.	48.	1.00
2.	131.	47.	1.00
2.	131.	46.	1.00
2.	131.	45.	1.00
2.	131.	44.	1.00
2.	131.	43.	1.00
2.	131.	42.	1.00
2.	131.	41.	1.00
2.	130.	41.	1.00
2.	130.	40.	1.00
2.	130.	39.	1.00
2.	130.	38.	1.00
2.	130.	37.	1.00
2.	130.	36.	1.00
2.	129.	36.	1.00
2.	129.	35.	1.00
2.	129.	34.	1.00
2.	129.	33.	1.00
2.	128.	33.	1.00
2.	128.	32.	1.00
2.	128.	31.	1.00
2.	128.	30.	1.00
2.	128.	29.	1.00
2.	127.	29.	1.00
2.	127.	28.	1.00
2.	127.	27.	1.00
2.	127.	26.	1.00
2.	126.	26.	1.00

2.	126.	25.	1.00
2.	126.	24.	1.00
2.	126.	23.	1.00
2.	126.	22.	1.00
2.	125.	22.	1.00
2.	125.	21.	1.00
2.	125.	20.	1.00
2.	124.	20.	1.00
2.	124.	19.	1.00
2.	123.	19.	1.00
2.	122.	19.	1.00
2.	122.	18.	1.00
2.	121.	18.	1.00
2.	120.	18.	1.00
2.	120.	17.	1.00
2.	119.	17.	1.00
2.	118.	17.	1.00
2.	118.	16.	1.00
2.	117.	16.	1.00
2.	116.	16.	1.00
2.	116.	15.	1.00
2.	115.	15.	1.00
2.	114.	15.	1.00
2.	114.	14.	1.00
2.	113.	14.	1.00
2.	113.	13.	1.00
2.	112.	13.	1.00
2.	111.	13.	1.00
2.	111.	12.	1.00
2.	110.	12.	1.00
2.	109.	12.	1.00
2.	109.	11.	1.00
2.	108.	11.	0.67

GROUP NUMBER: 26 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
8
NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION		REFER.	TIME	OBSERVED		
STATISTIC	PLOT	STRESS		BOUNDARY FLOW		
OBS#	NAME	PERIOD	OFFSET	GAIN (-) OR	LOSS (+)	STATISTIC TYPE
32	no_chdf15	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
2.	108.	11.	0.33
2.	107.	11.	1.00
2.	107.	10.	1.00
2.	106.	10.	1.00
2.	105.	10.	1.00
2.	105.	9.	1.00
2.	104.	9.	1.00
2.	103.	9.	0.08

GROUP NUMBER: 27 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
89
NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION		REFER.	OBSERVED			
STATISTIC	PLOT	STRESS	TIME	BOUNDARY FLOW		
OBS#	NAME	PERIOD	OFFSET	GAIN (-) OR	LOSS (+)	STATISTIC
SYM.						TYPE
33	no_chdf16	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
4.	6.	31.	0.43
4.	6.	32.	1.00
4.	6.	33.	1.00
4.	7.	33.	1.00
4.	7.	34.	1.00
4.	7.	35.	1.00
4.	7.	36.	1.00
4.	7.	37.	1.00
4.	7.	38.	1.00
4.	7.	39.	1.00
4.	7.	40.	1.00
4.	7.	41.	1.00
4.	7.	42.	1.00
4.	7.	43.	1.00
4.	7.	44.	1.00
4.	7.	45.	1.00
4.	7.	46.	1.00
4.	7.	47.	1.00
4.	7.	48.	1.00
4.	7.	49.	1.00
4.	7.	50.	1.00
4.	8.	50.	1.00
4.	8.	51.	1.00
4.	8.	52.	1.00
4.	8.	53.	1.00
4.	8.	54.	1.00
4.	8.	55.	1.00
4.	8.	56.	1.00
4.	8.	57.	1.00
4.	8.	58.	1.00
4.	8.	59.	1.00
4.	8.	60.	1.00
4.	8.	61.	1.00
4.	8.	62.	1.00
4.	8.	63.	1.00
4.	8.	64.	1.00
4.	9.	64.	1.00
4.	9.	65.	1.00
4.	9.	66.	1.00
4.	9.	67.	1.00
4.	9.	68.	1.00
4.	9.	69.	1.00
4.	9.	70.	1.00
4.	9.	71.	1.00
4.	9.	72.	1.00
4.	9.	73.	1.00
4.	10.	73.	1.00
4.	11.	73.	1.00
4.	11.	74.	1.00

4.	12.	74.	1.00
4.	12.	75.	1.00
4.	13.	75.	1.00
4.	13.	76.	1.00
4.	14.	76.	1.00
4.	14.	77.	1.00
4.	15.	77.	1.00
4.	15.	78.	1.00
4.	16.	78.	1.00
4.	16.	79.	1.00
4.	17.	79.	1.00
4.	18.	79.	1.00
4.	18.	80.	1.00
4.	19.	80.	1.00
4.	19.	81.	1.00
4.	20.	81.	1.00
4.	20.	82.	1.00
4.	21.	82.	1.00
4.	21.	83.	1.00
4.	22.	83.	1.00
4.	22.	84.	1.00
4.	23.	84.	1.00
4.	23.	85.	1.00
4.	24.	85.	1.00
4.	25.	85.	1.00
4.	25.	86.	1.00
4.	26.	86.	1.00
4.	26.	87.	1.00
4.	27.	87.	1.00
4.	27.	88.	1.00
4.	28.	88.	1.00
4.	28.	89.	1.00
4.	29.	89.	1.00
4.	29.	90.	1.00
4.	30.	90.	1.00
4.	30.	91.	1.00
4.	31.	91.	1.00
4.	32.	91.	1.00
4.	32.	92.	1.00
4.	33.	92.	0.25

GROUP NUMBER: 28 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
8
NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION		REFER.	TIME	OBSERVED		
STATISTIC	PLOT	STRESS		BOUNDARY FLOW		
OBS#	NAME	PERIOD	OFFSET	LOSS (+)	STATISTIC	TYPE
34	no_chdf17	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
4.	33.	92.	0.75
4.	34.	92.	1.00
4.	34.	93.	1.00
4.	35.	93.	1.00
4.	36.	93.	1.00

4.	37.	93.	1.00
4.	38.	93.	1.00
4.	39.	93.	0.34

GROUP NUMBER: 29 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
129

NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS	TIME	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.	35 no_chdf18	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
4.	103.	9.	0.92
4.	102.	9.	1.00
4.	102.	8.	1.00
4.	101.	8.	1.00
4.	100.	8.	1.00
4.	99.	8.	1.00
4.	98.	8.	1.00
4.	97.	8.	1.00
4.	96.	8.	1.00
4.	95.	8.	1.00
4.	95.	7.	1.00
4.	94.	7.	1.00
4.	93.	7.	1.00
4.	92.	7.	1.00
4.	91.	7.	1.00
4.	90.	7.	1.00
4.	89.	7.	1.00
4.	89.	6.	1.00
4.	88.	6.	1.00
4.	87.	6.	1.00
4.	86.	6.	1.00
4.	85.	6.	1.00
4.	84.	6.	1.00
4.	83.	6.	1.00
4.	82.	6.	1.00
4.	82.	5.	1.00
4.	81.	5.	1.00
4.	80.	5.	1.00
4.	79.	5.	1.00
4.	78.	5.	1.00
4.	77.	5.	1.00
4.	76.	5.	1.00
4.	75.	5.	1.00
4.	74.	5.	1.00
4.	73.	5.	1.00
4.	72.	5.	1.00
4.	71.	5.	1.00
4.	70.	5.	1.00
4.	69.	5.	1.00
4.	68.	5.	1.00
4.	67.	5.	1.00
4.	67.	4.	1.00

4.	66.	5.	1.00
4.	65.	5.	1.00
4.	64.	5.	1.00
4.	63.	5.	1.00
4.	62.	5.	1.00
4.	61.	5.	1.00
4.	60.	5.	1.00
4.	59.	5.	1.00
4.	58.	5.	1.00
4.	57.	5.	1.00
4.	56.	5.	1.00
4.	55.	5.	1.00
4.	54.	5.	1.00
4.	53.	5.	1.00
4.	52.	5.	1.00
4.	51.	5.	1.00
4.	51.	6.	1.00
4.	50.	6.	1.00
4.	49.	6.	1.00
4.	48.	6.	1.00
4.	47.	6.	1.00
4.	46.	6.	1.00
4.	45.	6.	1.00
4.	44.	6.	1.00
4.	43.	6.	1.00
4.	42.	6.	1.00
4.	41.	6.	1.00
4.	40.	6.	1.00
4.	39.	6.	1.00
4.	38.	6.	1.00
4.	37.	6.	1.00
4.	36.	6.	1.00
4.	36.	7.	1.00
4.	35.	7.	1.00
4.	34.	7.	1.00
4.	33.	7.	1.00
4.	32.	7.	1.00
4.	32.	8.	1.00
4.	31.	8.	1.00
4.	30.	8.	1.00
4.	30.	9.	1.00
4.	29.	9.	1.00
4.	28.	9.	1.00
4.	28.	10.	1.00
4.	27.	10.	1.00
4.	26.	10.	1.00
4.	26.	11.	1.00
4.	25.	11.	1.00
4.	24.	11.	1.00
4.	24.	12.	1.00
4.	23.	12.	1.00
4.	22.	12.	1.00
4.	22.	13.	1.00
4.	21.	13.	1.00
4.	20.	13.	1.00
4.	20.	14.	1.00
4.	19.	14.	1.00
4.	18.	14.	1.00
4.	18.	15.	1.00
4.	17.	15.	1.00

4.	16.	15.	1.00
4.	16.	16.	1.00
4.	15.	16.	1.00
4.	15.	17.	1.00
4.	14.	17.	1.00
4.	14.	18.	1.00
4.	13.	18.	1.00
4.	13.	19.	1.00
4.	13.	20.	1.00
4.	12.	20.	1.00
4.	12.	21.	1.00
4.	12.	22.	1.00
4.	11.	22.	1.00
4.	11.	23.	1.00
4.	11.	24.	1.00
4.	10.	24.	1.00
4.	10.	25.	1.00
4.	9.	25.	1.00
4.	9.	26.	1.00
4.	9.	27.	1.00
4.	8.	27.	1.00
4.	8.	28.	1.00
4.	8.	29.	1.00
4.	7.	29.	1.00
4.	7.	30.	1.00
4.	7.	31.	1.00
4.	6.	31.	0.57

GROUP NUMBER: 30 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP: 202
 NUMBER OF FLOW OBSERVATIONS: 1

STATISTIC	OBSERVATION PLOT	REFER. STRESS PERIOD	TIME OFFSET	OBSERVED BOUNDARY FLOW GAIN (-) OR LOSS (+)	STATISTIC	TYPE
SYM.	36 no_chdf19	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
4.	39.	93.	0.66
4.	40.	93.	1.00
4.	41.	93.	1.00
4.	42.	93.	1.00
4.	43.	93.	1.00
4.	44.	93.	1.00
4.	45.	93.	1.00
4.	46.	93.	1.00
4.	47.	93.	1.00
4.	47.	94.	1.00
4.	48.	94.	1.00
4.	49.	94.	1.00
4.	50.	94.	1.00
4.	51.	94.	1.00
4.	52.	94.	1.00
4.	53.	94.	1.00
4.	54.	94.	1.00
4.	55.	94.	1.00

4.	56.	94.	1.00
4.	57.	94.	1.00
4.	58.	94.	1.00
4.	59.	94.	1.00
4.	60.	94.	1.00
4.	61.	94.	1.00
4.	62.	94.	1.00
4.	63.	94.	1.00
4.	64.	94.	1.00
4.	65.	94.	1.00
4.	66.	94.	1.00
4.	67.	94.	1.00
4.	68.	94.	1.00
4.	69.	94.	1.00
4.	70.	94.	1.00
4.	71.	94.	1.00
4.	72.	94.	1.00
4.	73.	94.	1.00
4.	74.	94.	1.00
4.	75.	94.	1.00
4.	76.	94.	1.00
4.	77.	94.	1.00
4.	78.	94.	1.00
4.	79.	94.	1.00
4.	80.	94.	1.00
4.	81.	94.	1.00
4.	82.	94.	1.00
4.	83.	94.	1.00
4.	83.	93.	1.00
4.	84.	93.	1.00
4.	85.	93.	1.00
4.	86.	93.	1.00
4.	87.	93.	1.00
4.	88.	93.	1.00
4.	89.	93.	1.00
4.	90.	93.	1.00
4.	91.	93.	1.00
4.	92.	93.	1.00
4.	93.	93.	1.00
4.	94.	93.	1.00
4.	95.	93.	1.00
4.	96.	93.	1.00
4.	97.	93.	1.00
4.	97.	92.	1.00
4.	98.	92.	1.00
4.	99.	92.	1.00
4.	100.	92.	1.00
4.	101.	92.	1.00
4.	102.	92.	1.00
4.	103.	92.	1.00
4.	103.	91.	1.00
4.	104.	91.	1.00
4.	105.	91.	1.00
4.	105.	90.	1.00
4.	106.	90.	1.00
4.	107.	90.	1.00
4.	107.	89.	1.00
4.	108.	89.	1.00
4.	109.	89.	1.00
4.	109.	88.	1.00

4.	110.	88.	1.00
4.	111.	88.	1.00
4.	111.	87.	1.00
4.	112.	87.	1.00
4.	113.	87.	1.00
4.	113.	86.	1.00
4.	114.	86.	1.00
4.	115.	86.	1.00
4.	115.	85.	1.00
4.	116.	85.	1.00
4.	117.	85.	1.00
4.	117.	84.	1.00
4.	118.	84.	1.00
4.	119.	84.	1.00
4.	119.	83.	1.00
4.	120.	83.	1.00
4.	120.	82.	1.00
4.	121.	82.	1.00
4.	122.	82.	1.00
4.	122.	81.	1.00
4.	123.	81.	1.00
4.	124.	81.	1.00
4.	124.	80.	1.00
4.	125.	80.	1.00
4.	125.	79.	1.00
4.	126.	79.	1.00
4.	126.	78.	1.00
4.	126.	77.	1.00
4.	126.	76.	1.00
4.	126.	75.	1.00
4.	127.	75.	1.00
4.	127.	74.	1.00
4.	127.	73.	1.00
4.	127.	72.	1.00
4.	127.	71.	1.00
4.	128.	71.	1.00
4.	128.	70.	1.00
4.	128.	69.	1.00
4.	128.	68.	1.00
4.	128.	67.	1.00
4.	129.	67.	1.00
4.	129.	66.	1.00
4.	129.	65.	1.00
4.	129.	64.	1.00
4.	129.	63.	1.00
4.	130.	63.	1.00
4.	130.	62.	1.00
4.	130.	61.	1.00
4.	130.	60.	1.00
4.	130.	59.	1.00
4.	131.	59.	1.00
4.	131.	58.	1.00
4.	131.	57.	1.00
4.	131.	56.	1.00
4.	131.	55.	1.00
4.	131.	54.	1.00
4.	131.	53.	1.00
4.	132.	53.	1.00
4.	132.	52.	1.00
4.	132.	51.	1.00

4.	132.	50.	1.00
4.	132.	49.	1.00
4.	131.	49.	1.00
4.	131.	48.	1.00
4.	131.	47.	1.00
4.	131.	46.	1.00
4.	131.	45.	1.00
4.	131.	44.	1.00
4.	131.	43.	1.00
4.	131.	42.	1.00
4.	131.	41.	1.00
4.	130.	41.	1.00
4.	130.	40.	1.00
4.	130.	39.	1.00
4.	130.	38.	1.00
4.	130.	37.	1.00
4.	130.	36.	1.00
4.	129.	36.	1.00
4.	129.	35.	1.00
4.	129.	34.	1.00
4.	129.	33.	1.00
4.	128.	33.	1.00
4.	128.	32.	1.00
4.	128.	31.	1.00
4.	128.	30.	1.00
4.	128.	29.	1.00
4.	127.	29.	1.00
4.	127.	28.	1.00
4.	127.	27.	1.00
4.	127.	26.	1.00
4.	126.	26.	1.00
4.	126.	25.	1.00
4.	126.	24.	1.00
4.	126.	23.	1.00
4.	126.	22.	1.00
4.	125.	22.	1.00
4.	125.	21.	1.00
4.	125.	20.	1.00
4.	124.	20.	1.00
4.	124.	19.	1.00
4.	123.	19.	1.00
4.	122.	19.	1.00
4.	122.	18.	1.00
4.	121.	18.	1.00
4.	120.	18.	1.00
4.	120.	17.	1.00
4.	119.	17.	1.00
4.	118.	17.	1.00
4.	118.	16.	1.00
4.	117.	16.	1.00
4.	116.	16.	1.00
4.	116.	15.	1.00
4.	115.	15.	1.00
4.	114.	15.	1.00
4.	114.	14.	1.00
4.	113.	14.	1.00
4.	113.	13.	1.00
4.	112.	13.	1.00
4.	111.	13.	1.00
4.	111.	12.	1.00

4.	110.	12.	1.00
4.	109.	12.	1.00
4.	109.	11.	1.00
4.	108.	11.	0.67

GROUP NUMBER: 31 BOUNDARY TYPE: CHD NUMBER OF CELLS IN GROUP:
8

NUMBER OF FLOW OBSERVATIONS: 1

OBSERVATION		REFER.	TIME	OBSERVED		
STATISTIC	PLOT	STRESS		BOUNDARY FLOW		
OBS#	NAME	PERIOD	OFFSET	GAIN (-) OR	LOSS (+)	STATISTIC TYPE
37	no_chdf20	1	0.000	1.000	0.1000E+20	STD.
DEV.	1					

LAYER	ROW	COLUMN	FACTOR
4.	108.	11.	0.33
4.	107.	11.	1.00
4.	107.	10.	1.00
4.	106.	10.	1.00
4.	105.	10.	1.00
4.	105.	9.	1.00
4.	104.	9.	1.00
4.	103.	9.	0.08

SOLUTION BY THE CONJUGATE-GRADIENT

METHOD

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MAXIMUM NUMBER OF CALLS TO PCG ROUTINE = 100
MAXIMUM ITERATIONS PER CALL TO PCG = 100
MATRIX PRECONDITIONING TYPE = 1
RELAXATION FACTOR (ONLY USED WITH PRECOND. TYPE 1) =
0.10000E+01
PARAMETER OF POLYNOMIAL PRECOND. = 2 (2) OR IS CALCULATED : 0
HEAD CHANGE CRITERION FOR CLOSURE =
0.10000E-01
RESIDUAL CHANGE CRITERION FOR CLOSURE =
0.10000E-01
PCG HEAD AND RESIDUAL CHANGE PRINTOUT INTERVAL = 999
PRINTING FROM SOLVER IS LIMITED(1) OR SUPPRESSED (>1) = 2
DAMPING PARAMETER =
0.10000E+01

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WETTING CAPABILITY IS NOT ACTIVE IN ANY LAYER

0 Well parameters

0 GHB parameters

0 TIME-VARIANT SPECIFIED-HEAD PARAMETERS

3 PARAMETERS HAVE BEEN DEFINED IN ALL PACKAGES.
(SPACE IS ALLOCATED FOR 999 PARAMETERS.)

SMALLEST AND LARGEST WEIGHTED RESIDUALS

SMALLEST WEIGHTED RESIDUALS			LARGEST WEIGHTED RESIDUALS		
NAME	WEIGHTED RESIDUAL	PERCENT OF OBJ FUNC	NAME	WEIGHTED RESIDUAL	OBJ
hed1	-16.0	28.02	hed4	17.1	
hed6	-2.17	0.52	hed5	16.6	
hed2	-1.17	0.15	hed3	9.23	
no_ghbf7	-0.115E-13	0.00	no_chdf20	0.992E-14	
no_ghbf5	-0.687E-14	0.00	no_chdf17	0.755E-14	

STATISTICS FOR ALL RESIDUALS :
 AVERAGE WEIGHTED RESIDUAL : 0.637E+00
 # RESIDUALS >= 0. : 29
 # RESIDUALS < 0. : 8
 NUMBER OF RUNS : 6 IN 37 OBSERVATIONS

INTERPRETING THE CALCULATED RUNS STATISTIC VALUE OF -3.51
 NOTE: THE FOLLOWING APPLIES ONLY IF

RESIDUALS >= 0 . IS GREATER THAN 10 AND
 # RESIDUALS < 0. IS GREATER THAN 10

THE NEGATIVE VALUE MAY INDICATE TOO FEW RUNS:

IF THE VALUE IS LESS THAN -1.28, THERE IS LESS THAN A 10 PERCENT
 CHANCE THE VALUES ARE RANDOM,
 IF THE VALUE IS LESS THAN -1.645, THERE IS LESS THAN A 5 PERCENT
 CHANCE THE VALUES ARE RANDOM,
 IF THE VALUE IS LESS THAN -1.96, THERE IS LESS THAN A 2.5 PERCENT
 CHANCE THE VALUES ARE RANDOM.

CORRELATION BETWEEN ORDERED WEIGHTED RESIDUALS AND NORMAL ORDER
 STATISTICS

FOR OBSERVATIONS = 0.459

 --
 COMMENTS ON THE INTERPRETATION OF THE CORRELATION BETWEEN
 WEIGHTED RESIDUALS AND NORMAL ORDER STATISTICS:

The critical value for correlation at the 5% significance level is
 0.944

IF the reported CORRELATION is GREATER than the 5% critical value,
 ACCEPT
 the hypothesis that the weighted residuals are INDEPENDENT AND NORMALLY
 DISTRIBUTED at the 5% significance level. The probability that this
 conclusion is wrong is less than 5%.

IF the reported correlation IS LESS THAN the 5% critical value REJECT
the
hypothesis that the weighted residuals are INDEPENDENT AND NORMALLY
DISTRIBUTED at the 5% significance level.

The analysis can also be done using the 10% significance level.
The associated critical value is 0.953

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# MF2K NAME file
#
# Output Files
GLOBAL      1 "FINAL_MEDK_6-11.glo"
LIST        2 "FINAL_MEDK_6-11.out"
DATA(BINARY) 30 "FINAL_MEDK_6-11.hed"
DATA(BINARY) 40 "FINAL_MEDK_6-11.ccf"
LMT6        18 "FINAL_MEDK_6-11.lmt"
#
# Obs-Sen-Pes Process Input Files
OBS          50 "FINAL_MEDK_6-11.obs"
HOB          51 "FINAL_MEDK_6-11.hob"
GBOB         53 "FINAL_MEDK_6-11.gbob"
CHOB         55 "FINAL_MEDK_6-11.chob"
SEN          57 "FINAL_MEDK_6-11.snn"
PES          58 "FINAL_MEDK_6-11.pes"
ASP          71 "FINAL_MEDK_6-11.asp"
#
# Global Input Files
DIS          19 "FINAL_MEDK_6-11.dis"
#
# Flow Process Input Files
BAS6         3 "FINAL_MEDK_6-11.ba6"
LPF          4 "FINAL_MEDK_6-11.lpf"
OC           15 "FINAL_MEDK_6-11.oc"
WEL          9 "FINAL_MEDK_6-11.wel"
GHB         11 "FINAL_MEDK_6-11.ghb"
CHD          13 "FINAL_MEDK_6-11.chd"
PCG          14 "FINAL_MEDK_6-11.pcg"
```

PEST RUN RECORD: CASE final_medk_6-11

PEST run mode:-

Parameter estimation mode

Case dimensions:-

Number of parameters	:	3
Number of adjustable parameters	:	3
Number of parameter groups	:	1
Number of observations	:	37
Number of prior estimates	:	0

Model command line(s):-

start /w /min FINAL_MEDK_6-11_bat1.bat

Jacobian command line:-

na

Model interface files:-

Templates:

FINAL_MEDK_6-11.tpl_1
 for model input files:
 FINAL_MEDK_6-11.snn_1

(Parameter values written using single precision protocol.)
 (Decimal point always included.)

Instruction files:

FINAL_MEDK_6-11.ins
 for reading model output files:
 FINAL_MEDK_6-11._os

PEST-to-model message file:-

na

Derivatives calculation:-

Param Method group (central)	Increment type	Increment	Increment low bound	Forward or central	Multiplier (central)
general outside_pts	relative	1.0000E-02	none	switch	2.000

Parameter definitions:-

Name Upper	Trans- formation	Change limit	Initial value	Lower bound
bound				
hk_100	log	factor	517.390	1.000000E-03
1000.00				
ghb_300	none	factor	147.740	1.000000E-03
1000.00				
ghb_400	none	factor	179.940	1.000000E-03
1000.00				

Name number	Group	Scale	Offset	Model command
hk_100	general	1.00000	0.00000	1
ghb_300	general	1.00000	0.00000	1
ghb_400	general	1.00000	0.00000	1

Prior information:-

No prior information supplied

Observations:-

Observation name	Observation	Weight	Group
hed1	3689.73	1.960	head
hed2	3698.05	1.960	head
hed3	3700.85	1.960	head
hed4	3702.56	1.960	head
hed5	3706.41	1.960	head
hed6	3696.72	1.960	head
no_ghbf0	1.00000	1.0000E-19	ghb
no_ghbf1	1.00000	1.0000E-19	ghb
no_ghbf2	1.00000	1.0000E-19	ghb
no_ghbf3	1.00000	1.0000E-19	ghb
no_ghbf4	1.00000	1.0000E-19	ghb
no_ghbf5	1.00000	1.0000E-19	ghb
no_ghbf6	1.00000	1.0000E-19	ghb
no_ghbf7	1.00000	1.0000E-19	ghb
no_ghbf8	1.00000	1.0000E-19	ghb
no_ghbf9	1.00000	1.0000E-19	ghb
no_chdf0	1.00000	1.0000E-19	const_head
no_chdf1	1.00000	1.0000E-19	const_head
no_chdf2	1.00000	1.0000E-19	const_head
no_chdf3	1.00000	1.0000E-19	const_head
no_chdf4	1.00000	1.0000E-19	const_head
no_chdf5	1.00000	1.0000E-19	const_head
no_chdf6	1.00000	1.0000E-19	const_head
no_chdf7	1.00000	1.0000E-19	const_head
no_chdf8	1.00000	1.0000E-19	const_head
no_chdf9	1.00000	1.0000E-19	const_head
no_chdf10	1.00000	1.0000E-19	const_head
no_chdf11	1.00000	1.0000E-19	const_head
no_chdf12	1.00000	1.0000E-19	const_head
no_chdf13	1.00000	1.0000E-19	const_head
no_chdf14	1.00000	1.0000E-19	const_head
no_chdf15	1.00000	1.0000E-19	const_head
no_chdf16	1.00000	1.0000E-19	const_head

no_chdf17	1.00000	1.0000E-19	const_head
no_chdf18	1.00000	1.0000E-19	const_head
no_chdf19	1.00000	1.0000E-19	const_head
no_chdf20	1.00000	1.0000E-19	const_head

Control settings:-

Initial lambda	:	
10.000		
Lambda adjustment factor	:	
2.0000		
Sufficient new/old phi ratio per optimisation iteration	:	
0.30000		
Limiting relative phi reduction between lambdas	:	
3.00000E-02		
Maximum trial lambdas per iteration	:	10
Maximum factor parameter change (factor-limited changes)	:	
5.0000		
Maximum relative parameter change (relative-limited changes)	:	na
Fraction of initial parameter values used in computing change limit for near-zero parameters	:	
1.00000E-03		
Allow bending of parameter upgrade vector	:	no
Allow parameters to stick to their bounds	:	no
Relative phi reduction below which to begin use of central derivatives	:	
0.10000		
Iteration at which to first consider derivatives switch	:	1
Relative phi reduction indicating convergence	:	
0.50000E-02		
Number of phi values required within this range	:	3
Maximum number of consecutive failures to lower phi	:	3
Minimal relative parameter change indicating convergence	:	
0.50000E-02		
Number of consecutive iterations with minimal param change	:	3
Maximum number of optimisation iterations	:	20
Attempt automatic user intervention	:	no

OPTIMISATION RECORD

INITIAL CONDITIONS:

Sum of squared weighted residuals (ie phi)	=	916.18
Contribution to phi from observation group "head"	=	916.18
Contribution to phi from observation group "ghb"	=	2.24011E-
28		
Contribution to phi from observation group "const_head"	=	1.75006E-
28		

Current parameter values

hk_100	517.390
ghb_300	147.740
ghb_400	179.940

```

OPTIMISATION ITERATION NO.      :    1
  Model calls so far            :    1
  Starting phi for this iteration      :    916.18
  Contribution to phi from observation group "head"      :    916.18
  Contribution to phi from observation group "ghb"      :    2.24011E-
28
  Contribution to phi from observation group "const_head" :    1.75006E-
28

      Lambda =    10.000      ----->
      Phi =    921.59      (  1.006 times starting phi)

      Lambda =     5.0000      ----->
      Phi =    921.59      (  1.006 times starting phi)

  No more lambdas: relative phi reduction between lambdas less than
0.0300
  Lowest phi this iteration:    921.59
  Relative phi reduction between optimisation iterations less than
0.1000
  Switch to central derivatives calculation
  (restart from best parameters so far - these achieved at iteration
0)

```

```

Current parameter values
hk_100          517.390
ghb_300         147.740
ghb_400         179.940

```

```

OPTIMISATION ITERATION NO.      :    2
  Model calls so far            :    6
  Starting phi for this iteration      :    916.18
  Contribution to phi from observation group "head"      :    916.18
  Contribution to phi from observation group "ghb"      :    2.24011E-
28
  Contribution to phi from observation group "const_head" :    1.75006E-
28

      Lambda =    10.000      ----->
      Phi =    930.91      (  1.016 times starting phi)

      Lambda =     5.0000      ----->
      Phi =    935.16      (  1.021 times starting phi)

      Lambda =    20.000      ----->
      Phi =    922.71      (  1.007 times starting phi)

```

```

  No more lambdas: relative phi reduction between lambdas less than
0.0300
  Lowest phi this iteration:    922.71

```

Current parameter values		Previous parameter values	
hk_100	475.589	hk_100	517.390
ghb_300	738.700	ghb_300	147.740
ghb_400	101.957	ghb_400	179.940
Maximum factor change:	5.000	["ghb_300"]	
Maximum relative change:	4.000	["ghb_300"]	

```

OPTIMISATION ITERATION NO.      :    3
  Model calls so far            :   15
  Starting phi for this iteration :   922.71
  Contribution to phi from observation group "head" :   922.71
  Contribution to phi from observation group "ghb" :  2.27015E-
28
  Contribution to phi from observation group "const_head" :  1.74841E-
28

```

```

  Lambda = 20.000 ----->
  Phi = 921.48 ( 0.999 of starting phi)

```

```

  Lambda = 10.000 ----->
  Phi = 922.00 ( 0.999 of starting phi)

```

```

  Lambda = 40.000 ----->
  Phi = 920.37 ( 0.997 of starting phi)

```

No more lambdas: relative phi reduction between lambdas less than 0.0300

Lowest phi this iteration: 920.37

Current parameter values		Previous parameter values	
hk_100	482.254	hk_100	475.589
ghb_300	737.161	ghb_300	738.700
ghb_400	20.3913	ghb_400	101.957
Maximum factor change:	5.000	["ghb_400"]	
Maximum relative change:	0.8000	["ghb_400"]	

Optimisation complete: 3 optimisation iterations have elapsed since lowest

phi was achieved.
Total model calls: 24

The model has been run one final time using best parameters.
Thus all model input files contain best parameter values, and model output files contain model results based on these parameters.

OPTIMISATION RESULTS

Parameters ----->

Parameter	Estimated value	95% percent confidence limits	
		lower limit	upper limit
hk_100	517.390	74.9949	3569.47
ghb_300	147.740	-7104.65	7400.13
ghb_400	179.940	-2.826123E+18	2.826123E+18

Note: confidence limits provide only an indication of parameter uncertainty.

They rely on a linearity assumption which may not extend as far in parameter space as the confidence limits themselves - see PEST manual.

See file final_medk_6-11.sen for parameter sensitivities.

Observations ----->

Observation	Weight	Group	Measured value	Calculated value	Residual
hed1			3689.73	3697.91	-8.17500
1.960		head			
hed2			3698.05	3698.65	-0.596000
1.960		head			
hed3			3700.85	3696.14	4.70800
1.960		head			
hed4			3702.56	3693.82	8.74200
1.960		head			
hed5			3706.41	3697.96	8.45500
1.960		head			
hed6			3696.72	3697.83	-1.11000
1.960		head			
no_ghbf0			1.00000	0.00000	1.00000
1.0000E-19		ghb			
no_ghbf1			1.00000	0.00000	1.00000
1.0000E-19		ghb			
no_ghbf2			1.00000	0.00000	1.00000
1.0000E-19		ghb			
no_ghbf3			1.00000	0.00000	1.00000
1.0000E-19		ghb			
no_ghbf4			1.00000	0.00000	1.00000
1.0000E-19		ghb			
no_ghbf5			1.00000	68690.7	-68689.7
1.0000E-19		ghb			
no_ghbf6			1.00000	41165.1	-41164.1
1.0000E-19		ghb			
no_ghbf7			1.00000	115133.	-115132.
1.0000E-19		ghb			
no_ghbf8			1.00000	30252.3	-30251.3
1.0000E-19		ghb			
no_ghbf9			1.00000	42635.6	-42634.6
1.0000E-19		ghb			
no_chdf0			1.00000	-155.133	156.133
1.0000E-19		const_head			
no_chdf1			1.00000	-2487.08	2488.08
1.0000E-19		const_head			
no_chdf2			1.00000	-314.222	315.222
1.0000E-19		const_head			
no_chdf3			1.00000	-2245.90	2246.90
1.0000E-19		const_head			
no_chdf4			1.00000	-4399.66	4400.66
1.0000E-19		const_head			
no_chdf5			1.00000	-3012.83	3013.83
1.0000E-19		const_head			
no_chdf6			1.00000	-3232.42	3233.42
1.0000E-19		const_head			
no_chdf7			1.00000	-4889.91	4890.91
1.0000E-19		const_head			
no_chdf8			1.00000	-24016.7	24017.7
1.0000E-19		const_head			
no_chdf9			1.00000	-6093.65	6094.65
1.0000E-19		const_head			
no_chdf10			1.00000	-5948.24	5949.24

1.0000E-19	const_head			
no_chdf11		1.00000	-1.35844	2.35844
1.0000E-19	const_head			
no_chdf12		1.00000	-13243.9	13244.9
1.0000E-19	const_head			
no_chdf13		1.00000	-2.44356	3.44356
1.0000E-19	const_head			
no_chdf14		1.00000	-5521.59	5522.59
1.0000E-19	const_head			
no_chdf15		1.00000	-27043.6	27044.6
1.0000E-19	const_head			
no_chdf16		1.00000	-20.5216	21.5216
1.0000E-19	const_head			
no_chdf17		1.00000	-75467.0	75468.0
1.0000E-19	const_head			
no_chdf18		1.00000	-33.2510	34.2510
1.0000E-19	const_head			
no_chdf19		1.00000	-17448.8	17449.8
1.0000E-19	const_head			
no_chdf20		1.00000	-99194.4	99195.4
1.0000E-19	const_head			

See file final_medk_6-11.res for more details of residuals in graph-ready format.

See file final_medk_6-11.seo for composite observation sensitivities.

Objective function ----->

Sum of squared weighted residuals (ie phi)	=	916.2
Contribution to phi from observation group "head"	=	916.2
Contribution to phi from observation group "ghb"	=	2.2401E-
28		
Contribution to phi from observation group "const_head"	=	1.7501E-
28		

Correlation Coefficient ----->

Correlation coefficient	=	1.000
-------------------------	---	-------

Analysis of residuals ----->

All residuals:-		
Number of residuals with non-zero weight	=	
37		
Mean value of non-zero weighted residuals	=	
0.6369		
Maximum weighted residual [observation "hed4"]	=	
17.13		
Minimum weighted residual [observation "hed1"]	=	-
16.02		
Standard variance of weighted residuals	=	
26.95		
Standard error of weighted residuals	=	
5.191		

Note: the above variance was obtained by dividing the objective

function by the number of system degrees of freedom (ie. number of observations with non-zero weight plus number of prior information articles with non-zero weight minus the number of adjustable parameters.)

If the degrees of freedom is negative the divisor becomes the number of observations with non-zero weight plus the number of prior information items with non-zero weight.

```

Residuals for observation group "head":-
  Number of residuals with non-zero weight           =
6
  Mean value of non-zero weighted residuals           =
3.928
  Maximum weighted residual [observation "hed4"]       =
17.13
  Minimum weighted residual [observation "hed1"]       = -
16.02
  "Variance" of weighted residuals                   =
152.7
  "Standard error" of weighted residuals              =
12.36

```

Note: the above "variance" was obtained by dividing the sum of squared residuals by the number of items with non-zero weight.

```

Residuals for observation group "ghb":-
  Number of residuals with non-zero weight           =
10
  Mean value of non-zero weighted residuals           = -
2.9787E-15
  Maximum weighted residual [observation "no_ghbf0"]   =
1.0000E-19
  Minimum weighted residual [observation "no_ghbf7"]   = -
1.1513E-14
  "Variance" of weighted residuals                   =
2.2401E-29
  "Standard error" of weighted residuals              =
4.7330E-15

```

Note: the above "variance" was obtained by dividing the sum of squared residuals by the number of items with non-zero weight.

```

Residuals for observation group "const_head":-
  Number of residuals with non-zero weight           =
21
  Mean value of non-zero weighted residuals           =
1.4038E-15
  Maximum weighted residual [observation "no_chdf20"]   =
9.9195E-15
  Minimum weighted residual [observation "no_chdf11"]   =
2.3584E-19
  "Variance" of weighted residuals                   =
8.3336E-30
  "Standard error" of weighted residuals              =
2.8868E-15

```

Note: the above "variance" was obtained by dividing the sum of squared

residuals by the number of items with non-zero weight.

Parameter covariance matrix ----->

	hk_100	ghb_300	ghb_400
hk_100	0.1701	-1138.	17.25
ghb_300	-1138.	1.2718E+07	-6.6029E+04
ghb_400	17.25	-6.6029E+04	1.9313E+36

Parameter correlation coefficient matrix ----->

	hk_100	ghb_300	ghb_400
hk_100	1.000	-0.7738	3.0086E-17
ghb_300	-0.7738	1.000	-1.3323E-17
ghb_400	3.0086E-17	-1.3323E-17	1.000

Normalized eigenvectors of parameter covariance matrix ----->

	Vector_1	Vector_2	Vector_3
hk_100	1.000	8.9492E-05	8.9295E-36
ghb_300	8.9492E-05	-1.000	-3.4189E-32
ghb_400	-5.8698E-36	-3.4189E-32	1.000

Eigenvalues ----->

6.8267E-02	1.2718E+07	1.9313E+36
------------	------------	------------