HYDROLOGIC REPORT

APPENDIX C

INDIAN BEND WASH FLOODPLAIN DELINEATION STUDY FCD 93-05

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INDIAN BEND WASH FLOODPLAIN DELINEATION STUDY FCD 93-05

Submitted to:

Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85009

Submitted by:

Simons, Li & Associates, Inc.
4600 South Mill Avenue, Suite 200
Tempe, Arizona 85282

December, 1996

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*  ******************************************************************************
*  FLOODPLAIN DELINEATION FOR INDIAN BEND WASH
*  FLOOD CONTROL DISTRICT FCD 93-05
*
*  FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
*  2801 WEST DURANGO STREET
*  PHOENIX, ARIZONA 85009
*  (602) 506-1501
*  MR. PEDRO CALZA, PROJECT MANAGER
*  MR. AFSHIN AHOURAIYAN, PROJECT HYDROLOGIST
*
*  SIMONS, LI & ASSOCIATES, INC.
*  4600 SOUTH MILL AVENUE, SUITE 200
*  TEMPE, ARIZONA 85282
*  (602) 491-1393
*  MR. DENNIS RICHARDS, P.E., PROJECT MANAGER
*
*  HEC-1 HYDROLOGIC MODEL OF INDIAN BEND WASH (IBW)
*  CONTRIBUTING WATERSHED TO SCOTTSDALE ROAD(NOT INCLUDING
*  SCOTTSDALE MODEL)
*
*  MICHAEL BAKER ENGINEERS CONSTRUCTED AN SCS TR-20
*  HYDROLOGIC  MODEL OF EXISTING CONDITIONS OF IBW
*  FOR THE SQUAW PEAK HIGHWAY EXTENSION STUDY.
*  THE EXISTING 100-YR TR20 MODEL IS DOCUMENTED
*  IN "FINAL HYDROLOGY REPORT", NOVEMBER 1988
*  SQUAW PEAK HIGHWAY CONTRACT NO 87-40 PREPARED
*  FOR ARIZONA DEPARTMENT OF TRANSPORTATION
*
*  THE TR-20 MODEL REFERENCED ABOVE WAS CONVERTED
*  TO A HEC-1 MODEL FOR THE IBW FIS.  HYDROLOGIC
*  PARAMETERS USED TO DEVELOP THE HEC-1 MODEL
*  WAS EXTRACTED FORM THE TR-20 MODEL AND
*  HYDROLOGIC BACKUP DATA FURNISHED BY
*  MICHAEL BAKER (PHX, AZ)  AND AN-WEST CONSULTANTS
*
*  THE DOUBLETREE RANCH ROAD REGIONAL HEC-1 MODEL,
*  PREPARED BY KAMINSKI-HUBBARD ENGINEERING, INC.
*  WAS INCORPATED INTO THE OVERALL MODEL
*
*
*  FILENAME:  IBW_HEC1.DAT, Modified on Dec. 12, 1996
*  HEC-1 HYPOTHETICAL DISTRIBUTION
*  100-YR 24-HOUR FREQUENCY/DURATION   (DEPTH-AREA REDUCTION 0.842)
*
*                          BRW DATA BELOW
*
ID SQUAW PEAK HIGHWAY       SECTIONS 4 & 5      DRAINAGE TO 40TH STREET
ID 100-YR STORM             DATE:8-10-92              HEC-1 FILE:TEMPHECA.DAT
ID MODEL BASED ON TR-20 RUN  IN FINAL HYDROLOGY MANUAL, NOV88
ID ******************************LAG TIMES FROM TR-20 INPUT TCONCS***************
ID ******************************PRECIP. IS 24-HR  EVENT*************************
ID ******************************TRIAL: STO5 MODIFIED****************************
ID MODEL MODIFIED 01-24-96 WITH NEW STORAGE CAPACITIES
IT     4  120991             300
IO     5
JR          .363    .518    .619    .750    .875   1.000
*DIAGRAM
KK  S084
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why used a JR card?

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KM   SUBAREA 084 HYDROGRAPH
*
PH                   .61    1.21    2.13    2.32    2.45    2.69    2.95    3.20
*
BA  0.69
LS  0.65    77.7
UD  0.68
*
KK  S086
KM   SUBAREA 086 HYDROGRAPH
BA  0.11
LS   0.0    77.8
UD  0.18
*
KK   R07
KM ROUTE 086 6600' SW
RM     2    0.48    0.10
*
KK  S088
KM   SUBAREA 088 HYDROGRAPH
BA  0.43
LS  0.55    82.4
UD  0.38
*
KK  C109
KM   COMBINE HYDROGRAPHS S088 + R07B + S084
HC     3
*
KK   R09
KM   ROUTE C109 6500' S
RM     1    0.32     0.1
*
KK  S010
KM   SUBAREA 010 HYDROGRAPH
BA  0.27
LS  0.55    82.5
UD  0.41
*
KK  S012
KM   SUBAREA 012 HYDROGRAPH
BA  0.26
LS  0.55    77.6
UD  0.45
*
KK  S014
KM   SUBAREA 014 HYDROGRAPH
BA  0.36
LS   0.1    84.5
UD  0.16
*
KK  C114
KM   COMBINE HYDROGRAPHS S010 + S012 + S014 + R09
HC     4    2.12
*
KK  R015
KM   ROUTE C114 2650' S
RM     1    0.26    0.20
*
KK  S098
KM   SUBAREA 098 HYDROGRAPH
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BA  0.09
LS   0.0      85
UD  0.27
*
KK  D098
KM   DIVERT PHX 54" SD TO C118
DTPHX54"
DI     0      50     270     500    1500
DQ     0      25     135     135     135
*
KK  R099
KM   ROUTE 098 7500'
RM     1    0.27    0.05
*
KK  S100
KM   SUBAREA 100 HYDROGRAPH
BA  0.30
LS   0.0    82.0
UD  0.46
*
KK  S022
KM   SUBAREA 022 HYDROGRAPH
BA  0.29
LS   0.0    83.6
UD  0.19
*
KK  C122
KM   COMBINE HYDROGRAPHS R015 + R099 + 100 + 022
HC     4
*
KK  D122
KM   SPLIT FLOWS AT TBIRD "V.E."
KM   ELIMINATE SPLIT FLOWS, JULY 7, 1995, BRW
DT VESOU
DI     0     250     500    1000    1500    2400
DQ     0       0       0       0       0       0
*
KK S006A
KM  SUBAREA 6A HYDROGRAPH
BA  0.13
LS   0.0    78.2
UD  0.23
*
KK  R06A
KM   ROUTE 6A FLOWS 4000' S IN 72" RCP
KM      (ZERO ROUTING - ADD K TO R17/6A BELOW
RN
*
KK S006B
KM   SUBAREA 6B HYDROGRAPH
BA  0.19
LS   0.0    78.2
UD  0.45
*
KK  S016
KM   SUBAREA 016 HYDROGRAPH
BA  0.16
LS   0.0      80
UD  0.35
*
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KK  C116
KM   COMBINE HYDROGRAPHS R06A + S016 + S006B
HC     3    0.48
*
KK R116A
KM   ROUTE C116 4300' S IN 6' X 6' CBC
RM     1    0.20    0.50
*
KK  S018
KM   SUBAREA 018 HYDROGRAPH
BA  0.15
LS   0.0    77.8
UD  0.35
*
KK  R118
KM   RETRIEVE PHX 54" SD
DRPHX54"
*
KK  C118
KM   COMBINE HYDROGRAPHS R116A + S018 + R118
HC     3
*
KK  R019
KM   ROUTE C118 8400' S IN 8' X 6' CBC AND 10' X 6' CBC
RM     1    0.20    0.50
*
KK  S020
KM   SUBAREA 020 HYDROGRAPH
BA  0.20
LS   0.0    83.4
UD  0.36
*
KK  C120
KM   COMBINE HYDROGRAPHS R019 + 020
HC     2
*
KK  C124
KM COMBINE C120 + D122
HC     2
*
KK R023A
KM ROUTE C124 1450' IN IMPROVED IBW CHANNEL (ASSUME V=3.1 FPS)
RM     1    0.13    0.25
*
KK D122R
KM   RETRIEVE V.E. DIVERSION
DR VESOU
*
KK  R122
KM   ROUTE VESOU 1300' SOUTH CHANNEL (ASSUME V=5.2 FPS)
RM     1    0.07    0.20
*
KK  S28A
KM   SUBAREA 28A HYDROGRAPH           NORTH OF EMILE ZOLA
BA  .358
LS    .5    83.0
UD   .42
*
KK   C28
KM   COMBINE R122 + S28A
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HC     2
*
KK   R28
KM ROUTE C28 650' ALONG EMILE ZOLA TO C125 (V = 2.2 FPS)
RM     1   0.082    0.20
*
KK  C125
KM COMBINE R023A AND R28 AT EMILE ZOLA AVENUE
HC     2
*
KK R023B
KM ROUTE C125 1650' IN IMPROVED IBW CHANNEL (ASSUME V=3.1 FPS)
RM     1    0.15     .25
*
KK  S024
KM   SUBAREA 024 HYDROGRAPH
BA  0.23
LS   0.0    82.1
UD  0.40
*
KK  R025
KM   ROUTE 024 4900'
RM     1    0.25    0.15
*
KK  S026
KM   SUBAREA 026 HYDROGRAPH
BA  0.21
LS   0.0    84.0
UD  0.28
*
KK  S030
KM   SUBAREA 030 HYDROGRAPH
BA  0.04
LS    0.      84
UD  0.20
*
KK  C127
KM COMBINE R023 + R025 + S26 + 030
HC     4
*
KK   S48
KM SUBAREA 48 HYDROGRAPH    SP4CHEC1*BEGIN SECTION 4 DETENTION SYSTEM MODEL*
BA  0.80
LS  0.37    87.1
UD  0.34
*
KK  DS48
KM ALLOW PORTION OF S48 N. R.O. PLUS CAPACITY OF 78" INTO STO1(SPLIT SUBAREA RO)
KM DIVERT 60% (INFLOW -165CFS) TO STO2
DT    D1
DI   165     665    1165    1665
DQ     0     300     600     900
KK  STO1
KM STORAGE ROUTING       RETARD BETWEEN SHEA & DESERT COVE, SILL ELEV.= 1413.5
KM TRAPEZOIDAL WEIR (3:1 SIDESLOPES); WEIR BREADTH = 15', BOTTOM WIDTH = 30'
RS     1    ELEV 1399.63       0
SV   0.0    0.98    2.37    4.21    6.37   9.34   11.11   12.96   13.02   15.05
SV 18.69   19.58   22.02
SE1399.5   1402.   1404.   1406.   1408.   1410.   1411.   1412.   1413.   1414.
SE 1415.   1416.   1417.
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SQ   0.0     26.     45.     45.     45.     45.     45.     45.     45.    125.
SQ  359.    728.   1097.
*
KK   S46
KM SUBAREA 46 HYDROGRAPH
BA  0.82
LS  0.41    85.8
UD  0.50
*
KK  DS46
KM  DIVERT 38% OF S46 HYDROGRAPH TO STO3
DT    D2
DI     0     500    1000    1500
DQ     0     190     380     570
*
KK  RS48
KM RETRIEVE DIVERTED PORTION OF S48
DR    D1
*
KK   C48
KM COMBINE STO1 & D1 & DS46     S OF CHOLLA
HC     3
*
KK  STO2
KM STORAGE ROUTING       RETARD BETWEEN DESERT COVE & CHOLLA, SILL ELEV=1407.5
KM    TRAPEZOIDAL WEIR (3:1 SIDESLOPES); WEIR BREADTH = 15', BOTTOM WIDTH = 70'
RS     1    ELEV 1397.75       0
SV   0.0    1.02    2.61    4.83    7.70   11.35   15.53   15.53   17.84   20.33
SE1397.4   1400.   1402.   1404.   1406.   1408.   1409.   1410.   1411.   1412.
SQ   0.0     27.     47.     50.     50.    137.    433.    879.   1446.   2013.
*
KK  RS46
KM RETRIEVE DIVERTED PORTION OF S46
DR    D2
*
KK  C46N
KM COMBINE STO2 & D2 NORTH OF CHOLLA
HC     2
*
KK   S42
KM SUBAREA 42 HYDROGRAPH
BA  0.90
LS  0.47    83.9
UD  0.47
*
KK  DS42
KM DIVERT CAPACITY 78" SS (S=.37%) ALONG CACTUS TO IBW
DT D3IBW
DI     0     175     346     500    1000    2000
DQ     0     175     346     346     346     346
*
KK  DC42
KM DIVERT 59% REMAINING RUNOFF FROM S42 N. TO STO 4 (SPLIT SUBAREA RO)
DT    D4
DI     0     250     500    1000    1500
DQ     0     148     295     590     885
*
KK  C42S
KM COMBINE DC46 & C46N NORTH OF CHOLLA
HC     2
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*
KK  STO3
KM STORAGE ROUTING     RETARD SOUTH OF CACTUS, SILL ELEV. = 1402.0
KM  TRAPEZOIDAL WEIR (3:1 SIDESLOPES); WEIR BREADTH = 15', BOTTOM WIDTH = 105'
RS     1    ELEV 1393.26       0
SV     0    4.57    7.08   13.38   17.17   21.35   26.00   31.06   36.46   42.02
SE1393.3    1397    1398    1400    1401    1402    1403    1404    1405    1406
SQ   0.0    122.    149.    204.    232.    259.    537.    938.   1513.   2211.
*
KK  RS42
KM RETRIEVE DIVERTED PORTION OF S42 N. OF CACTUS ROAD
DR    D4
*
KK  C42N
KM COMBINE STO3 & D4         NORTH OF CACTUS
HC     2
*
KK   S38
KM  SUBAREA 38 HYDROGRAPH
BA  1.34
LS    .5     83.
UD   .55
*
KK  DS38
KM DIVERT 65% OF S38 RUNOFF
DT    D5
DI     0     250     500    1000    2000
DQ     0     163     325     650    1300
*
KK DS38A
KM DIVERT 32 ST AND 28 ST CAPACITIES (45%)
DT    D6
DI     0     250     500    1000    2000
DQ     0     113     225     450     900
*
KK  C38A
KM COMBINE DS38A & C42N
HC     2
*
KKSTO4
KM STORAGE ROUTING     RETARD SOUTH OF LARKSPUR, SILL ELEV. = 1399.5
KM  TRAPEZOIDAL WEIR (3:1 SIDESLOPES); WEIR BREADTH = 15', BOTTOM WIDTH = 100'
RS     1    ELEV 1390.47       0
SV     0    0.55    1.52    2.97    6.64   11.26   15.38   16.91   20.09   23.54
SV 27.00
SE1390.5    1392    1393    1394    1396    1398  1399.5    1400    1401   1402.
SE1403.0
SQ   0.0     73.    121.    160.    238.    332.    688.    959.   1627.   2464.
SQ3301.0
*
KK RDS38
KM RETRIEVE DIVERTED HYDROGRAPH (65% OF S38)
DR    D5
*
KK  DSWW
KM DIVERT STORM DRAIN (60" S=.28%) EAST ALONG  SWEETWATER TOWARDS IBW
DT SWEST            149
DI     0      10     100     149     500    1500
DQ     0      10     100     149     149     149
*
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KK   RD6
KM RETRIEVE DIVERTED HYDROGRAPH
DR    D6
*
KK DSWTE
KM DIVERT CAPAC. OF SWEETWATER TO IBW.  ASSUME REMAINDER GOES TO STO 5.
DT    D7
DI     0     100     122     200     400     600
DQ     0     100     122     122     122     122
*
KK   C38
KM COMBINE STO4 & DSWW & (D6-D7)         AT SWEETWATER
HC     3
*
KK  STO5
* KO             2
KM STORAGE ROUTING     RETARD SOUTH OF SWEETWATER, CREST ELEV. = 1395
KM   TRAPEZOIDAL WEIR (3:1 SIDESLOPES); WEIR BREADTH = 15', BOTTOM WIDTH = 55'
KM  THIS RUN HAS SWEETWATER CBC CONTROL ONLY.
RS     1    ELEV 1388.25       0
SV   0.0    3.13    4.95    6.97    9.16   11.52   14.00   16.76   19.69   22.83
SV 26.26   29.67
SE1388.3    1391    1392    1393    1394    1395    1396    1397    1398    1399
SE  1400    1401
SQ   0.0    350.    544.    819.   1112.   1497.   1930.    2347    2690    3033
SQ  3376   3719.
*
KK  S28B
KM SUBAREA 28B HYDROGRAPH
BA  .292
LS    .5     .83
UD   .42
*
KK  C129
KM COMBINE  STO5 AND S28B
HC     2
*
KK   R29
KM ROUTE C129 1500' V=12 FPS                        (ZERO ROUTING)
RN
*
KK  C131
KM   COMBINE HYDROGRAPHS R029 + C127
HC     2
*
KK  R031
KM   ROUTE C131 4500' IMPROVED IBW CHANNEL (ASSUME V=4.5 FPS)
RM     1    0.28    0.20
*
KK  S032
KM   SUBAREA 032 HYDROGRAPH
BA  0.56
LS   0.0    80.2
UD  0.25
*
KK  R033
KM   ROUTE 032 8500'
RM     1    0.39    0.10
*
KK  S034
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KM   SUBAREA 034 HYDROGRAPH
BA  0.93
LS   0.0    79.4
UD  0.55
*
KK  C134
KM   COMBINE HYDROGRAPHS R033 + 034
HC     2
*
KK  R035
KM   ROUTE C134 8400'
RM     1    0.35    0.10
*
KK S036A
KM   SUBAREA 036 WEST OF 40TH STREET
BA  0.58
LS  0.50    82.3
UD  0.49
*
KK  S040
KM   SUBAREA 040 HYDROGRAPH
BA  0.23
LS   0.0    82.0
UD  0.36
*
KK  C141
KM COMBINE R031 + R035 + 036 + 040
HC     4
*
KK RDSWW
KM RETRIEVE HYDROGRAPH SWEST
DR SWEST
*
KK  S044
KM   SUBAREA 044 HYDROGRAPH
BA  0.16
LS   0.0    82.0
UD  0.34
*
KK  C145
KM   SWEETWATER 60" SS + SUBAREA 44 RUNOFF - COMBINE AT IBW DOWNSTREAM
KM   OF EXISTING CHANNEL IMPROVEMENTS AT 40 ST AND IBW
KM   COMBINE HYDROGRAPHS  044 + C141 + SWEST
HC     3
KM
KM
KM   BREAK BETWEEN BRW AND SLA MODEL
KM                    original Basin
KM
KK SUB50
KM RUNOFF FROM SUBBASIN 50
BA  1.00
LS          83.6
UD  0.26
KK   R51
KM ROUTE CP150 TO CP152
RD  9200   0.004   0.025            TRAP       8       2
KK SUB52
KM RUNOFF FROM SUBBASIN 52
BA  0.57
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LS          81.8
UD   0.6
KK CP152
KM COMBINE HYDROGRAPHS SUB52 AND R51
HC     2
KK SUB54
KM RUNOFF FROM SUBBASIN 54
BA  1.33
LS          78.1
UD  0.49
KK   R55
KM ROUTE SUB54 TO CP156          CHANNEL DOWNSTREAM OF GREENWAY RD EAST OF 40TH
RD  6500  0.0062    0.02            TRAP      10     1.0
KK SUB56
KM RUNOFF FROM SUBBASIN 56
BA  0.76
LS          80.4
UD  0.59
KK CP156
KM COMBINE HYDROGRAPHS SUB56 AND R55
HC     2
KK   R57
KM ROUTE CP156 TO CP158          CHANNEL EAST OF 40TH STREET
RD  9500   0.002   0.045            TRAP       8       3
KK SUB58
KM RUNOFF FROM SUBBASIN 58
BA  0.41
LS          81.0
UD  0.58
KK CP158
KM COMBINE HYDROGRAPHS SUB58, R57
HC     2
KK CP159
KM COMBINE HYDROGRAPHS CP144, CP141, CP152, CP158
KM CACTUS RD/IBW
HC     3
KK   R59
KM ROUTE HYDROGRAPH CP159 TO CP169  IBW CACTUS TO CHOLLA  XSEC 18.83
* KO     0
RD
RC 0.035   0.030   0.035    5200   0.002   19.08
RX   0.0      20     428     436     644     652     760     780
RY 19.08   14.08      12      10      10      12   14.08   19.08
KK SUB60
KM RUNOFF FROM SUBBASIN 60
BA  0.73
LS          78.4
UD  0.39
KK   R61
KM ROUTE SUB60 TO CP162          TATUM BLVD USE 40TH STREET
* KO     0
RD
RC 0.035   0.020   0.035    7000  0.0059      12
RX   0.0      75      75     107     139     139     214     215
RY    12    10.5      10   10.64      10    10.5      12      12
KK SUB62
KM RUNOFF FROM SUBBASIN 62
BA  0.89
LS          80.0
UD  0.44
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KK CP162
KM COMBINE HYDROGRAPHS SUB62 AND R61
HC     2
KK   R63
KM ROUTE CP162 TO CP169         TATUM BLVD USING 40TH STREET
* KO     1
RD
RC 0.035   0.020   0.035    9000  0.0059    12.5
RX     0     100     100     132     164     164     264     265
RY  12.5    10.5      10   10.64      10    10.5      12    12.5
KK SUB66
KM RUNOFF FROM SUBBASIN 66
BA  0.44
LS          78.2
UD  0.32
KK   R67
KM ROUTE SUB66 TO CP169 IBW AT CHOLLA   CHANNEL EAST OF 40TH ST
RD  6500   0.004   0.025            TRAP       8       2
KK SUB64
KM RUNOFF FROM SUBBASIN 64
BA  1.35
LS          80.1
UD  0.65
KK SUB68
KM RUNOFF FROM SUBBASIN 68
BA  0.78
LS          80.4
UD  0.38
KK CP169
KM COMBINE HYDROGRAPHS R67, SUB68, R59, SUB64, AND R63
KM CHOLLA RD/IBW
HC     5
KK   R69
KM ROUTE CP169 TO CP181 (SHEA/IBW) IBW: CHOLLA TO SHEA  XSEC 12.97
* KO     0
RD
RC 0.035   0.025   0.035    4000  0.0021   22.76
RX     0      20     400     418     518     532     720     740
RY 22.76   17.76      12      10      10      12   17.76   22.76
KK SUB70
KM RUNOFF FROM SUBBASIN 70
BA  0.71
LS          79.4
UD  0.46
KK   R71
KM ROUTE SUB70 TO CP172         52TH STREET USING 40TH STREET
RD
RC 0.035   0.020   0.035    7700  0.0059      12
RX     0      75      75     107     139     139     214     215
RY    12    10.5      10   10.64      10    10.5      12      12
KK SUB72
KM RUNOFF FROM SUBBASIN 72
BA  1.00
LS          80.1
UD  0.44
KK CP172
KM COMBINE HYDROGRAPHS R71 AND SUB72
HC     2
KK   R73
KM ROUTE CP172 TO CP181         52ND STREET USING 40TH STREET
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* KO      0
RD
RC 0.035   0.020   0.035    8200  0.0059    12.5
RX     0     100     100     132     164     164     264     265
RY  12.5    10.5      10   10.64      10    10.5    12.5    12.5
KK SUB74
KM RUNOFF FROM SUBBASIN 74
BA  1.00
LS          82.4
UD  0.50
KK SUB76
KM RUNOFF FROM SUBBASIN 76
BA  1.85
LS          83.2
UD  0.61
KK   R77
KM ROUTE SUB76 TO CP179         TATUM WASH (TOPO FROM FCD)
RD  8000   0.004    0.04            TRAP       75    6.25
KK SUB78
KM RUNOFF FROM SUBBASIN 78
BA  0.39
LS          78.5
UD  0.35
KK CP178
KM COMBINE HYDROGRAPHS R77 AND SUB78
HC     2
KK   R79
KM ROUTE CP178 DOWN SHEA TO IBW         CHANNEL NEXT TO SHEA
RD  5800   0.004   0.020            TRAP        8       2
KK SUB80
KM RUNOFF FROM SUBBASIN 80
BA  0.27
LS          77.7
UD  0.30
KK CP181
* KO                                    21
KM CONCENTRATION POINT 181 AT SHEA BLVD/IBW
KM COMBINE HYDROGRAPHS R79, SUB80, R69, SUB74, AND R73
HC     5
*
* ************************  MODIFICATION ******************
KK R181
KM CP181 ROUTING TO CONCENTRATION POINT CP191
RS     1              -1
RC 0.020   0.020   0.020    2700   0.015
RX  9554    9980    9983    9986    9988    9995   10434   10449
RY  1322    1316    1312    1308    1308    1314    1318    1322
* ************************  MODIFICATION ***********************
*
KK 480S
KM RUNOFF FROM SUBBASIN 480
BA 0.789
LS   0.0    77.7
UC 0.297   0.178
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
KK CP191
KM COMBINE HYDROGRAPHS R181 AND SUB480
HC     2
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```
*
* ************************  MODIFICATION ************************
KK R191
KM CP191 ROUTING TO CONCENTRATION POINT C125
RS     1              -1
RC 0.020   0.020   0.020    2700   0.015
RX  9554    9980    9983    9986    9988    9995   10434   10449
RY  1322    1316    1312    1308    1308    1314    1318    1322
* ************************* MODIFICATION  ************************
*
*
*  ***************************************************************
*
*      INSERT THE DOUBLETREE RANCH ROAD REGIONAL STUDY
*      PREPARED BY KAMINSKI-HUBBARD ENGINEERING, INC.
*
*  **************************************************************
*
*  DOUBLETREE RANCH ROAD REGIONAL DRAINAGE STUDY  FCD 94-28
*    FILENAME:  DT324E.DAT     KHE JOB NO. 298
*    100-YEAR 24-HOUR STORM DURATION EXISTING CONDITIONS
*  DDM MCUHP1 DOUBLETREE REGIONAL STUDY
* DDM   ***** Preserved *****
KK  100S
KM SUB-BASIN 100
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .45  Kb = .088  Adj. Slope =  315.0
BA  .088
LG  .140    .250   4.150    .470  18.000
UC  .217    .143
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK  R101
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 100 THROUGH SUB-BASIN 110
RS    12    FLOW      -1
RC 0.100   0.025   0.100    2800  0.0086
RX     0     0.0    25.0    25.0    75.0    75.0   100.0   100.0
RY   5.0     0.5     0.5     0.0     0.0     0.5     0.5     5.0
* DDM   ***** Preserved *****
KK  110S
KM SUB-BASIN 110
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .72  Kb = .054  Adj. Slope =   42.0
BA  .115
LG  .100    .250   4.450    .400  15.000
UC  .458    .411
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC115
KM COMBINE FLOWS FROM SUB-BASIN 100 AND SUB-BASIN 110
HC     2
* DDM   ***** Preserved *****
KK  R116
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 110 THROUGH SUB-BASIN 120
RS     9    FLOW      -1
RC 0.100   0.025   0.100    2200  0.0055
RX     0     0.0    25.0    25.0    75.0    75.0   100.0   100.0
RY   5.0     0.5     0.5     0.0     0.0     0.5     0.5     5.0
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* DDM   ***** Preserved *****
KK  120S
KM SUB-BASIN 120
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .45  Kb = .056  Adj. Slope =   27.0
BA  .086
LG  .100    .250   4.650    .350  15.000
UC  .408    .293
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK CP125
KM COMBINE FLOWS FROM SUB110, SUB120, AND R191
HC     3
*
* ************************  MODIFICATION ******************
KK R125
KM CP125 ROUTING TO CONCENTRATION POINT CP435
RS     1              -1
RC 0.020   0.020   0.020    4300   0.015
RX  9554    9980    9983    9986    9988    9995   10434   10449
RY  1322    1316    1312    1308    1308    1314    1318    1322
* ************************ MODIFICATION  ******************
*
*
* DDM   ***** Preserved *****
KK  290S
KM SUB-BASIN 290
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .38  Kb = .111  Adj. Slope =  315.0
BA  .092
KM RAINFALL DEPTH OF 3.77 WAS SPACIALLY REDUCED AS SHOWN BY THE PB RECORD
KM AN AREAL REDUCTION FACTOR OF .976
LG  .160    .250   4.150    .470  30.000
UC  .225    .127
UA     0       3       5       8      12      20      43      75      90      96
UA   100
* DDM   ***** Preserved *****
KK  R291
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 290 THROUGH SUB-BASIN 300
RS     4    FLOW      -1
RC 0.035   0.030   0.035    1800  0.0268
RX     0     0.5    20.0    30.0    40.0    60.0    68.0    80.0
RY   7.0     5.0     3.0     1.0     0.0     3.0     5.0     7.0
* DDM   ***** Preserved *****
KK  300S
KM SUB-BASIN 300
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .38  Kb = .059  Adj. Slope =  153.0
BA  .052
LG  .100    .250   3.950    .510  15.000
UC  .204    .158
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC305
KM COMBINE FLOWS FROM SUB-BASIN 290 AND SUB-BASIN 300
HC     2
* DDM   ***** Preserved *****
KK  R306
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KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 300 THROUGH SUB-BASIN 380
RS     1    FLOW      -1
RC 0.035   0.030   0.035     400  0.0250
RX     0     0.5     1.0    39.5    40.5    79.0    79.5    80.0
RY   8.0     8.0     8.0     0.0     0.0     8.0     8.0     8.0
* DDM   ***** Preserved *****
KK  310S
KM SUB-BASIN 310
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .95  Kb = .104  Adj. Slope =  315.0
BA  .249
LG  .170    .250   4.200    .460  40.000
UC  .375    .264
UA     0       3       5       8      12      20      43      75      90      96
UA   100
* DDM   ***** Preserved *****
KK  R311
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 310 THROUGH SUB-BASIN 360
RS     6    FLOW      -1
RC 0.035   0.030   0.035    2800  0.0204
RX     0     0.5     1.0    39.5    40.5    79.0    79.5    80.0
RY   8.0     8.0     8.0     0.0     0.0     8.0     8.0     8.0
* DDM   ***** Preserved *****
KK  320S
KM SUB-BASIN 320
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .68  Kb = .087  Adj. Slope =  315.0
BA  .170
LG  .140    .250   5.600    .230  30.000
UC  .258    .166
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK  R321
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 320 THROUGH SUB-BASIN 330
RS     5    FLOW      -1
RC 0.035   0.030   0.035    1000  0.0100
RX     0     0.5    49.5    50.0   155.0   155.5   199.5   200.0
RY   5.0     1.0     1.0     0.0     0.0     1.0     1.0     5.0
* DDM   ***** Preserved *****
KK  330S
KM SUB-BASIN 330
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .49  Kb = .067  Adj. Slope =  264.4
BA  .123
LG  .110    .150   7.300    .120  17.000
UC  .200    .116
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC335
KM COMBINE FLOWS FROM SUB-BASIN 320 AND SUB-BASIN 330
HC     2
* DDM   ***** Preserved *****
KK  R336
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 330 THROUGH SUB-BASIN 360
RS     5    FLOW      -1
RC 0.035   0.030   0.035    2400  0.0113
RX     0     0.5     1.0    39.5    40.5    79.0    79.5    80.0
RY   8.0     8.0     8.0     0.0     0.0     8.0     8.0     8.0
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* DDM   ***** Preserved *****
KK  340S
KM SUB-BASIN 340
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .34  Kb = .132  Adj. Slope =  315.0
BA  .069
LG  .180    .250   4.800    .320  42.000
UC  .229    .140
UA     0       3       5       8      12      20      43      75      90      96
UA   100
* DDM   ***** Preserved *****
KK  R341
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 340 THROUGH SUB-BASIN 360
RS     7    FLOW      -1
RC 0.035   0.030   0.035    3600  0.0369
RX     0     0.5     1.0    39.5    40.5    79.0    79.5    80.0
RY   8.0     8.0     8.0     0.0     0.0     8.0     8.0     8.0
* DDM   ***** Preserved *****
KK  350S
KM SUB-BASIN 350
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .38  Kb = .093  Adj. Slope =  315.0
BA  .076
LG  .140    .250   4.800    .320  48.000
UC  .200    .124
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK  R351
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 350 THROUGH SUB-BASIN 360
RS     5    FLOW      -1
RC 0.035   0.030   0.035    2600  0.0373
RX     0     0.5     1.0    39.5    40.5    79.0    79.5    80.0
RY   8.0     8.0     8.0     0.0     0.0     8.0     8.0     8.0
* DDM   ***** Preserved *****
KK  360S
KM SUB-BASIN 360
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .87  Kb = .054  Adj. Slope =  297.2
BA  .255
LG  .110    .250   4.100    .490  19.000
UC  .242    .149
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC365
KM COMBINE FLOWS FROM SUB-BASINS 310, 340, 350, 360 & COMBINED FLOWS AT HC335
HC     5
* DDM   ***** Preserved *****
KK  R366
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 360 THROUGH SUB-BASIN 380
RS     2    FLOW      -1
RC 0.035   0.030   0.035    1300  0.0135
RX     0     0.5     1.0    39.5    40.5    79.0    79.5    80.0
RY   8.0     8.0     8.0     0.0     0.0     8.0     8.0     8.0
* DDM   ***** Preserved *****
KK  370S
KM SUB-BASIN 370
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .64  Kb = .111  Adj. Slope =  315.0
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BA  .142
LG  .160    .250   4.800    .320  42.000
UC  .296    .204
UA     0       3       5       8      12      20      43      75      90      96
UA   100
* DDM   ***** Preserved *****
KK  R371
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 370 THROUGH SUB-BASIN 380
RS     9    FLOW      -1
RC 0.100   0.030   0.100    3400  0.0135
RX     0     0.5     1.0    39.5    40.5    79.0    79.5    80.0
RY   8.0     8.0     8.0     0.0     0.0     8.0     8.0     8.0
* DDM   ***** Preserved *****
KK  380S
KM SUB-BASIN 380
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .45  Kb = .057  Adj. Slope =  151.0
BA  .068
LG  .100    .250   4.000    .500  17.000
UC  .221    .169
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC385
KM COMBINE FLOWS FROM SUB-BASIN 370 & 380 AND COMBINED FLOWS AT HC305 & HC365
HC     4
* DDM   ***** Preserved *****
KK  R386
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 380 THROUGH SUB-BASIN 390
RS     4    FLOW      -1
RC 0.035   0.030   0.035    1800  0.0061
RX     0     0.5     1.0    39.5    40.5    79.0    79.5    80.0
RY   8.0     8.0     8.0     0.0     0.0     8.0     8.0     8.0
* DDM   ***** Preserved *****
KK  390S
KM SUB-BASIN 390
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .53  Kb = .058  Adj. Slope =   77.0
BA  .066
LG  .100    .250   4.450    .400  15.000
UC  .308    .284
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC395
KM COMBINE FLOWS FROM SUB-BASIN 390 AND COMBINED FLOWS AT HC385
HC     2
* DDM   ***** Preserved *****
KK  R396
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 390 THROUGH SUB-BASIN 400
RS     3    FLOW      -1
RC 0.035   0.030   0.035    1600  0.0081
RX     0     0.5     1.0     9.0    31.0    39.0    39.5    40.0
RY  10.0     4.0     4.0     0.0     0.0     4.0     4.0    10.0
* DDM   ***** Preserved *****
KK  400S
KM SUB-BASIN 400
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .91  Kb = .079  Adj. Slope =  303.0
BA  .145
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LG  .130    .250   4.650    .350  25.000
UC  .304    .275
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC405
KM COMBINE FLOWS FROM SUB-BASIN 400 AND COMBINED FLOWS AT HC395
HC     2
* DDM   ***** Preserved *****
KK DT405
KM SPLIT FLOW ANALYSIS AT CHEROKEE WASH AND 56TH STREET
DT 281RE
DI     0      64     170     506    1020    3016
DQ     0       0      31     123     196     784
* DDM   ***** Preserved *****
KK  R406
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 400 THROUGH SUB-BASIN 430
RS     8    FLOW      -1
RC 0.035   0.030   0.035    4000  0.0055
RX     0     0.5     1.0     9.0    31.0    39.0    39.5    40.0
RY  10.0     4.0     4.0     0.0     0.0     4.0     4.0    10.0
* DDM   ***** Preserved *****
KK  410S
KM SUB-BASIN 410
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .45  Kb = .094  Adj. Slope =  315.0
BA  .075
LG  .140    .250   4.550    .370  31.000
UC  .221    .160
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK  R411
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 410 THROUGH SUB-BASIN 430
RS    16    FLOW      -1
RC 0.100   0.030   0.100    4000  0.0060
RX     0     0.5     1.0    39.5    40.5    79.0    79.5    80.0
RY   8.0     8.0     8.0     0.0     0.0     8.0     8.0     8.0
* DDM   ***** Preserved *****
KK  420S
KM SUB-BASIN 420
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .80  Kb = .099  Adj. Slope =  315.0
BA  .123
LG  .150    .250   4.550    .370  31.000
UC  .321    .289
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK  R421
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 420 THROUGH SUB-BASIN 430
RS    11    FLOW      -1
RC 0.100   0.030   0.100    3000  0.0060
RX     0     0.5     1.0    39.5    40.5    79.0    79.5    80.0
RY   8.0     8.0     8.0     0.0     0.0     8.0     8.0     8.0
* DDM   ***** Preserved *****
KK  430S
KM SUB-BASIN 430
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .98  Kb = .050  Adj. Slope =   29.0
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BA  .237
LG  .100    .250   4.650    .350  15.000
UC  .629    .495
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC434
KM COMBINE FLOWS FROM SUB410, 420, 430, AND FLOWS AT HC405
HC     4
* THE ABOVE JUST FOR THE BASIN COMBINATION
*
* ************************* MODIFICATION ****************************
KK CP435     FROM    HC434
KM ROUTING TO CONCENTRATION POINT CP435
RS     1              -1
RC 0.020   0.020   0.020      20   0.015
RX  9554    9980    9983    9986    9988    9995   10434   10449
RY  1322    1316    1312    1308    1308    1314    1318    1322
* ************************* MODIFICATION ****************************
*
*  KM   SLA original modelling
KK 500S                    Basins upstream of 500S
KM RUNOFF FROM SUBBASIN 500                                  move to After R272
BA 0.250
LS   0.0    79.2
UC 0.182   0.070
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
KK R510                    Greenway to Circle Dale
KM ROUTE SUB500 TO CP610   ~~SWEETWATER AND 60TH STREET~~
RS     1              -1
RC 0.030   0.030   0.030    3000  0.0076
RX   0.0      10      20      24      34      38      48      58
RY    12      12      12      10      10      12      12      12
*
KK 600S
KM RUNOFF FROM SUBBASIN 600
BA 0.904
LS   0.0    77.7
UC 0.345   0.161
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
KK CP610
KM COMBINE HYDROGRAPHS R510 AND SUB600
HC     2
*
KK 630  STORAGE
RS     1    STOR
SV  0.00    12.8    19.2    25.6    34.1
SE  0.00     1.0     2.0     3.0     4.0
SQ  0.00    30.0    30.0    30.0    30.0
ST   4.0     350     3.0     1.5
*
KK R630                    sweetwater & 60th Street
KM ROUTE CP630 TO CP650    ~~SHEA AND 56TH STREET~~
RS     1              -1
RC 0.030   0.030   0.030    8400  0.0066
RX   0.0      10      20      24      34      38      48      58
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RY    12      12      12      10      10      12      12      12
*
KK 620S
KM RUNOFF FROM SUBBASIN 620
BA 1.270
LS   0.0    79.2
UC 0.724   0.464
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
* 24-420
*
KK240410   BASIN
BA 0.034
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   438  0.0019    0.02            TRAP      26     1.0
RK  1575  0.0055    0.02            TRAP      26     1.0
KK240410 STORAGE
RS     1    STOR
SV  0.00    1.00    2.00    3.00    4.10    5.10    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    3.00    4.00    5.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00
ST   4.0     150     3.0     1.5
KK240420    FROM  240410
RK   500  0.0019   0.017            TRAP    37.5       1
*
KK CP650
KM COMBINE HYDROGRAPHS R630 AND SUB620, SUB24-420, ~~to~~ this basin not used.
HC     3                                Sub 24-420
*
KK R650
KM ROUTE CP650 TO CP435        INDIAN BEND WASH AND 60TH STREET
RS     1              -1
RC 0.030   0.030   0.030    4800  0.0042
RX   0.0      10      20      24      34      38      48      58
RY    12      12      12      10      10      12      12      12
*
KK 640S
KM RUNOFF FROM SUBBASIN 640
* KO             2
BA 0.600
LS   0.0    76.3
UC 0.337   0.145
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
*
* DDM   ***** Preserved *****
KK  170S
KM SUB-BASIN 170
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .61  Kb = .138  Adj. Slope =  315.0
BA  .187
LG  .200    .250   4.250    .450  37.000
UC  .338    .194
UA     0       3       5       8      12      20      43      75      90      96
UA   100
* DDM   ***** Preserved *****
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Checked & o.k.

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KK  R171
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 170 THROUGH SUB-BASIN 180
RS     3    FLOW      -1
RC 0.035   0.030   0.035    1200  0.0250
RX     0     8.0    16.0    24.0    32.0    50.0    60.0    80.0
RY   8.0     6.0     4.0     2.0     0.0     2.0     4.0     6.0
* DDM   ***** Preserved *****
KK  180S
KM SUB-BASIN 180
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .68  Kb = .100  Adj. Slope =  315.0
BA  .095
LG  .150    .250   4.150    .470  28.000
UC  .296    .269
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK  190S
KM SUB-BASIN 190
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .91  Kb = .115  Adj. Slope =  315.0
BA  .208
LG  .170    .250   4.250    .450  42.000
UC  .383    .290
UA     0       3       5       8      12      20      43      75      90      96
UA   100
* DDM   ***** Preserved *****
KK  R191
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 190 THROUGH SUB-BASIN 180
RS     2    FLOW      -1
RC 0.035   0.030   0.035    1200  0.0400
RX     0    25.0    30.0    40.0    50.0    55.0    80.0   100.0
RY   6.0     4.0     2.0     0.0     2.0     4.0     6.0     6.0
* DDM   ***** Preserved *****
KK HC195
KM COMBINE FLOWS FROM SUB-BASIN 170, SUB-BASIN 180 & SUB-BASIN 190
HC     3
* DDM   ***** Preserved *****
KK  R196
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 180 THROUGH SUB-BASIN 200
RS     1    FLOW      -1
RC 0.035   0.030   0.035     200  0.0500
RX     0     8.0    16.0    24.0    32.0    50.0    60.0    80.0
RY   8.0     6.0     4.0     2.0     0.0     2.0     4.0     6.0
* DDM   ***** Preserved *****
KK  200S
KM SUB-BASIN 200
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .38  Kb = .093  Adj. Slope =  315.0
BA  .048
LG  .150    .250   4.150    .470  35.000
UC  .204    .165
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC205
KM COMBINE FLOW FROM SUB-BASIN 200 AND COMBINED FLOWS AT HC195
HC     2
* DDM   ***** Preserved *****
KK  R206
```

```
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 200 THROUGH SUB-BASIN 210
RS     3    FLOW      -1
RC 0.035   0.030   0.035    1600  0.0125
RX     0     0.5     1.0     9.0    31.0    39.0    39.5    40.0
RY  10.0     4.0     4.0     0.0     0.0     4.0     4.0    10.0
* DDM   ***** Preserved *****
KK  210S
KM SUB-BASIN 210
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .61  Kb = .043  Adj. Slope =  185.0
BA  .080
LG  .100    .250    .340    .490  21.000
UC  .200    .176
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC211
KM COMBINE FLOWS FROM SUB-BASIN 210 AND COMBINED FLOWS AT HC205
HC     2
* DDM   ***** Preserved *****
KK  R212
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 210 THROUGH SUB-BASIN 215
RS     5    FLOW      -1
RC 0.015   0.015   0.015    2600  0.0092
RX     0     0.5    15.0    35.0    65.0    75.0    99.5   100.0
RY   5.0     2.0     1.0     2.0     2.0     0.0     2.0     5.0
* DDM   ***** Preserved *****
KK  215S
KM SUB-BASIN 215
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .51  Kb = .063  Adj. Slope =   51.0
BA  .028
LG  .100    .250   4.800    .320  15.000
UC  .371    .551
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC216
KM COMBINE FLOWS FROM SUB-BASIN 215 AND COMBINED FLOWS AT HC211
HC     2
* DDM   ***** Preserved *****
KK  R217
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 215 THROUGH SUB-BASIN 270
RS     5    FLOW      -1
RC 0.015   0.015   0.015    2600  0.0077
RX     0     0.5    15.0    35.0    65.0    75.0    99.5   100.0
RY   5.0     2.0     1.0     2.0     2.0     0.0     2.0     5.0
* DDM   ***** Preserved *****
KK  220S
KM SUB-BASIN 220
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .27  Kb = .064  Adj. Slope =  219.2
BA  .024
LG  .100    .250   3.950    .510  15.000
UC  .162    .145
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK  R221
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 220 THROUGH SUB-BASIN 230
```

```
RS    11    FLOW      -1
RC 0.100   0.015   0.100    3000  0.0183
RX     0     0.5   550.0   550.5   579.5   580.0  1999.5  2000.0
RY   5.0     0.5     0.5     0.0     0.0     0.5     0.5     5.0
* DDM   ***** Preserved *****
KK  230S
KM SUB-BASIN 230
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .72  Kb = .051  Adj. Slope =  104.0
BA  .206
LG  .100    .250   4.500    .380  15.000
UC  .304    .187
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC235
KM COMBINE FLOWS FROM SUB-BASIN 220 AND SUB-BASIN 230
HC     2
* DDM   ***** Preserved *****
KK  R236
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 230 THROUGH SUB-BASIN 240
RS     3    FLOW      -1
RC 0.100   0.030   0.100    1000  0.0070
RX     0     0.5   235.0   235.5   264.5   265.0   499.5   500.0
RY   5.0     2.0     2.0     0.0     0.0     2.0     2.0     5.0
* DDM   ***** Preserved *****
KK  240S
KM SUB-BASIN 240
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .38  Kb = .059  Adj. Slope =   34.0
BA  .057
LG  .100    .250   4.700    .330  15.000
UC  .346    .269
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK  250S
KM SUB-BASIN 250
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .45  Kb = .112  Adj. Slope =  315.0
BA  .078
LG  .160    .250   4.200    .460  37.000
UC  .242    .173
UA     0       3       5       8      12      20      43      75      90      96
UA   100
* DDM   ***** Preserved *****
KK  R251
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 250 THROUGH SUB-BASIN 260
RS    11    FLOW      -1
RC 0.100   0.030   0.100    3200  0.0164
RX     0     0.5   235.0   235.5   264.5   265.0   499.5   500.0
RY   5.0     2.0     2.0     0.0     0.0     2.0     2.0     5.0
* DDM   ***** Preserved *****
KK  260S
KM SUB-BASIN 260
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .64  Kb = .053  Adj. Slope =  103.0
BA  .147
LG  .100    .250   4.350    .420  15.000
UC  .292    .197
```

```
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC265
KM COMBINE FLOWS FROM SUB-BASIN 250 AND SUB-BASIN 260
HC     2
* DDM   ***** Preserved *****
KK  R266
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 260 THROUGH SUB-BASIN 240
RS     4    FLOW      -1
RC 0.100   0.030   0.100    1400  0.0086
RX     0     0.5   235.0   235.5   264.5   265.0   499.5   500.0
RY   5.0     2.0     2.0     0.0     0.0     2.0     2.0     5.0
* DDM   ***** Preserved *****
KK HC245
KM COMBINE FLOWS FROM SUB-BASIN 240 AND COMBINED FLOWS AT HC265 & HC235
HC     3
* DDM   ***** Preserved *****
KK  R246
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 240 THROUGH SUB-BASIN 270
RS     4    FLOW      -1
RC 0.015   0.015   0.015    1800  0.0056
RX     0     0.5    15.0    35.0    65.0    75.0    99.5   100.0
RY   5.0     2.0     1.0     2.0     2.0     0.0     2.0     5.0
* DDM   ***** Preserved *****
KK  270S
KM SUB-BASIN 270
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .72  Kb = .053  Adj. Slope =   36.0
BA  .147
LG  .100    .250   4.700    .330  15.000
UC  .471    .368
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK RE281
KM RETRIEVE CHEROKEE WASH & 56TH STREET SPLIT FLOW
DR 281RE
* DDM   ***** Preserved *****
KK HC275
KM COMBINE FLOWS FROM SUB-BASIN 270, COMBINED FLOWS AT HC245 & HC215 AND
KM DIVERTED FLOW FROM 281RE
HC     4
* DDM   ***** Preserved *****
KK  R276
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 270 THROUGH SUB-BASIN 160
RS     3    FLOW      -1
RC 0.015   0.015   0.015    1400  0.0029
RX     0     0.5    15.0    35.0    65.0    75.0    99.5   100.0
RY   5.0     2.0     1.0     2.0     2.0     0.0     2.0     5.0
* DDM   ***** Preserved *****
KK  130S
KM SUB-BASIN 130
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .23  Kb = .163  Adj. Slope =  315.0
BA  .027
LG  .200    .250   4.250    .450  32.000
UC  .213    .160
UA     0       3       5       8      12      20      43      75      90      96
UA   100
```

```
* DDM   ***** Preserved *****
KK  R131
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 130 THROUGH SUB-BASIN 140
RS     6    FLOW      -1
RC 0.015   0.015   0.015    1800  0.0156
RX     0     0.5     1.0     1.5    28.5    29.0    29.5    30.0
RY   5.0     0.5     0.5     0.0     0.0     0.5     0.5     5.0
* DDM   ***** Preserved *****
KK  140S
KM SUB-BASIN 140
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .68  Kb = .074  Adj. Slope =  315.0
BA  .134
LG  .140    .250   4.300    .430  29.000
UC  .242    .177
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC145
KM COMBINE FLOWS FROM SUB-BASIN 130 AND SUB-BASIN 140
HC     2
* DDM   ***** Preserved *****
KK  R146
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 140 THROUGH SUB-BASIN 150
RS     5    FLOW      -1
RC 0.100   0.035   0.100    1355  0.0081
RX     0     0.5   100.0   100.5   129.5   130.0  1099.5  1100.0
RY   5.0     3.0     3.0     0.0     0.0     3.0     3.0     5.0
* DDM   ***** Preserved *****
KK  150S
KM SUB-BASIN 150
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .62  Kb = .054  Adj. Slope =   39.0
BA  .121
LG  .100    .250   4.650    .350  15.000
UC  .425    .325
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK HC155
KM COMBINE FLOWS FROM SUB-BASIN 140 AND SUB-BASIN 150
HC     2
* DDM   ***** Preserved *****
KK  R156
KM NORMAL DEPTH FLOW ROUTING FROM SUB-BASIN 150 THROUGH SUB-BASIN 160
RS    17    FLOW      -1
RC 0.100   0.035   0.100    4600  0.0046
RX     0     0.5   100.0   100.5   129.5   130.0  1099.5  1100.0
RY   5.0     3.0     3.0     0.0     0.0     3.0     3.0     5.0
* DDM   ***** Preserved *****
KK  160S
KM SUB-BASIN 160
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .91  Kb = .053  Adj. Slope =   24.0
BA  .144
LG  .100    .250   4.650    .350  15.000
UC  .683    .679
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
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```
KK HC165
KM COMBINE FLOWS FROM SUB-BASIN 150 AND SUB-BASIN 160
HC     2
* DDM   ***** Preserved *****
KK  280S
KM SUB-BASIN 280
KM 24-HOUR SCS TYPE II RAINFALL USED TO FIND TC & R FOR THIS BASIN
KM   L =  .49  Kb = .054  Adj. Slope =   24.0
BA  .115
LG  .100    .250   4.650    .350  15.000
UC  .442    .290
UA     0       5      16      30      65      77      84      90      94      97
UA   100
* DDM   ***** Preserved *****
KK CP277
KM COMBINE FLOWS FROM SUB160 & 280, FLOWS AT HC275
HC     3
*
* ************************  MODIFICATION ******************
KK R277
KM ROUTING TO CONCENTRATION POINT CP435
RS     1              -1
RC 0.020   0.020   0.020    2500   0.015
RX  9554    9980    9983    9986    9988    9995   10434   10449
RY  1322    1316    1312    1308    1308    1314    1318    1322
* ************************* MODIFICATION  ******************
*
KK CP435
KM COMBINE FLOWS FROM R277,R434,R125, R650 AND 640S
HC     5
*
* ***************** MODIFICATION  *********************************
KK R435
KM CP435 ROUTING TO INVERGORDON ROAD (CP211)
RS     1              -1
RC 0.025   0.025   0.025    3000   0.015
RX  9554    9980    9983    9986    9988    9995   10434   10449
RY  1322    1316    1312    1308    1308    1314    1318    1322
*  ***************** MODIFICATION  *********************************
*
* 24-530
*
KK240510   BASIN
BA 0.106
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  1521  0.0019    0.03            TRAP      19     1.0
RK  2342  0.0055    0.03            TRAP      26     1.0
KK240510 STORAGE
RS     1    STOR
SV  0.00    1.50    3.00    4.50    5.50    6.50    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    3.00    4.00    5.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00
ST   4.0     200     3.0     1.5
KK240520    FROM  240510
RK   564  0.0055   0.025            TRAP     3.0     2.0
KK240520   BASIN
BA 0.105
LS     0      77       0       0      98       0
```

Move SLA's study area to this location

```
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1471  0.0055    0.03            TRAP     23     1.0
RK   1275  0.0019    0.03            TRAP     19     1.0
KK240520 COMBINE
HC      2
KK240530    FROM  240520
RK    500  0.0055   0.025            TRAP    3.0     2.0
*
KK R530
KM ROUTING TO CONCENTRATION POINT CP211
RS      1              -1
RC 0.035   0.030   0.035   10000   0.006
RX      0      10      20      40      80     100     110     120
RY     10      10      10       0       0      10      10      10
*
* 25-3160
*
KK253110   BASIN
BA 0.041
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    534  0.0005    0.03            TRAP     15     1.0
RK   1723  0.0074    0.03            TRAP     34     1.0
KK253120    FROM  253110
RK    500  0.0015   0.013            DEEP    8.0
KK253130    FROM  253120
RK   1233  0.0074   0.025            TRAP   10.0     2.0
KK253130   BASIN
BA 0.055
LS      0      69       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    610  0.0005    0.03            TRAP     19     1.0
RK   1233  0.0074    0.03            TRAP     19     1.0
KK253130 COMBINE
HC      2
KK253140    FROM  253130
RK    500  0.0067   0.013            DEEP    8.0
KK253150    FROM  253140
RK   1378  0.0074   0.025            TRAP   20.0     2.0
KK253150   BASIN
BA 0.036
LS      0      69       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    671  0.0005    0.02            TRAP     34     1.0
RK   2600  0.0074    0.02            TRAP     49     1.0
KK253150 COMBINE
HC      2
KK253210   BASIN
BA 0.017
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    345  0.0005    0.02            TRAP     19     1.0
RK   1731  0.0074    0.02            TRAP     34     1.0
KK253210 STORAGE
RS      1    STOR
```

R530 – Has to go through basin that was left out shown on the map, then through basin 680, then to CP211. Outfall of basin 520 is not at 64th St & the 56 therefore, routing is not through the channel on east side of 64th Street. Need to relook at R530.

routing through road, channel

Missing subbasin modeling. Look the map. Then route to Corporate boundary. The route through 5680 & add 5680 at 211.

Bring in Basin 24 & Scottsdale analysis or explain why bring in 25 before 24?

Why are the steps taken in the modeling for Scottsdale's hydrology been changed? i.e. The 1st subbasin in this project from Basin 25 is 253110 compared 25 1110 in the City's model!

```
SV  0.00    0.34    0.51    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    3.00    4.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   3.0      50     3.0     1.5
KK253220    FROM  253210
RK   825  0.0074   0.025            TRAP    10.0     2.0
KK253220   BASIN
BA 0.012
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   319  0.0005    0.02            TRAP      19     1.0
RK   825  0.0074    0.03            TRAP      23     1.0
KK253220 COMBINE
HC     2
KK253220 STORAGE
RS     1    STOR
SV  0.00    1.15    1.73    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    4.00    5.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   4.0      50     3.0     1.5
KK253230    FROM  253220
RK   500  0.0074   0.025            TRAP    10.0     2.0
KK253230   BASIN
BA 0.005
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   202  0.0074    0.03            TRAP      23     1.0
RK   550  0.0005    0.03            TRAP      23     1.0
KK253230 COMBINE
HC     2
KK253240    FROM  253230
RK   500  0.0004   0.013            CIRC     3.0
KK253150    FROM  253240
RK   539  0.0005   0.025            TRAP    10.0     2.0
KK253150 COMBINE
HC     2
KK253160    FROM  253150
RK   500  0.0067   0.013            DEEP    10.0
KK253160   BASIN
BA 0.004
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  2858  0.0074    0.02            TRAP      49     1.0
KK253160 COMBINE
HC     2
*
KK R3160
KM ROUTING TO CONCENTRATION POINT CP360
RS     1              -1
RC 0.035   0.030   0.035     800   0.002
RX     0      10      20      30      50      60      70      80
RY     5       5       5       0       0       5       5       5
*
* 25-360
*
KK251110   BASIN
BA 0.126
```

Berm
Channel - marsh bottom.
ok ?

```
PH  0.00    0.00    0.73    1.44    2.44    2.72    2.90    3.25    4.000   4.600
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1725  0.0005    0.03            TRAP      23     1.0
RK  3872  0.0074    0.02            TRAP      23     1.0
KK251120    FROM  251110
RK  2680  0.0074   0.017            TRAP    60.0       1
KK251120   BASIN
BA 0.055
LS     0      77       0       0      98       0
UK   200  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK   546  0.0025    0.03            TRAP      23     1.0
RK  3569  0.0074    0.03            TRAP      30     1.0
KK251120 COMBINE
HC     2
KK251130    FROM  251120
RK   500  0.0067   0.013            DEEP    10.0
KK251140    FROM  251130
RK   500  0.0074   0.025            TRAP    10.0     2.0
KK251140   BASIN
BA 0.133
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  1132  0.0074    0.03            TRAP      30     1.0
RK  2705  0.0005    0.02            TRAP      30     1.0
KK251140 COMBINE
HC     2
KK251310   BASIN
BA 0.107
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   740  0.0005    0.02            TRAP      19     1.0
RK  3549  0.0074    0.02            TRAP      23     1.0
KK251320    FROM  251310
RK   500  0.0004   0.013            DEEP    10.0
KK251140    FROM  251320
RK   587  0.0005   0.025            TRAP    10.0     2.0
KK251140 COMBINE
HC     2
KK251150    FROM  251140
RK   809  0.0074   0.025            TRAP    10.0     2.0
KK251150   BASIN
BA 0.005
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   809  0.0005    0.03            TRAP      30     1.0
KK251150 COMBINE
HC     2
KK251160    FROM  251150
RK   500  0.0067   0.013            DEEP    10.0
KK251170    FROM  251160
RK   645  0.0074   0.025            TRAP    10.0     2.0
KK251170   BASIN
BA 0.024
LS     0      77       0       0      98       0
```

```
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    754  0.0074    0.02            TRAP      23     1.0
RK   1429  0.0005    0.03            TRAP      38     1.0
KK251170 COMBINE
HC      2
KK251180    FROM  251170
RK    500  0.0004   0.013            DEEP    10.0
KK251180   BASIN
BA 0.062
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1569  0.0074    0.02            TRAP      19     1.0
RK   2303  0.0005    0.02            TRAP      19     1.0
KK251180 COMBINE
HC      2
KK251190    FROM  251180
RK    764  0.0005   0.025            TRAP    10.0     2.0
KK251190   BASIN
BA 0.040
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    764  0.0005    0.03            TRAP      38     1.0
RK   1603  0.0074    0.03            TRAP      19     1.0
KK251190 COMBINE
HC      2
KK251410   BASIN
BA 0.135
LS      0      77       0       0      98       0
UK    200  0.0100    0.30      15
UK    200  0.0100    0.10      85
RK    972  0.0005    0.02            TRAP      19     1.0
RK   3135  0.0074    0.02            TRAP      23     1.0
KK251190    FROM  251410
RK   1603  0.0074   0.025            TRAP    10.0     2.0
KK251190 COMBINE
HC      2
KK251190  DIVERT
DT250180
DI      0      20      70     100     500    1000
DQ      0      20      70      80      90     100
KK250190    FROM  251190
RK   1213  0.0025   0.035            TRAP    50.0     4.0
KK251510   BASIN
BA 0.050
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    474  0.0074    0.02            TRAP      30     1.0
RK   2838  0.0005    0.02            TRAP      30     1.0
KK251520    FROM  251510
RK    500  0.0005   0.025            TRAP     5.0     2.0
KK250190    FROM  251520
RK    614  0.0025   0.035            TRAP    20.0     4.0
KK250190 COMBINE
HC      2
KK250010   BASIN
BA 0.007
```

```
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   3302  0.0005    0.02            TRAP      71     1.0
KK250020     FROM  250010
RK   1599  0.0033   0.013            CIRC     2.5
KK250020    BASIN
BA 0.005
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1599  0.0005    0.02            TRAP      71     1.0
KK250020 COMBINE
HC      2
KK250030     FROM  250020
RK    504  0.0033   0.013            CIRC     3.0
KK250030    BASIN
BA 0.002
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    510  0.0005    0.02            TRAP      83     1.0
KK250030 COMBINE
HC      2
KK250040     FROM  250030
RK    500  0.0033   0.013            CIRC     3.0
KK250050     FROM  250040
RK    736  0.0037   0.013            CIRC     3.0
KK250050    BASIN
BA 0.005
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    629  0.0074    0.03            TRAP      23     1.0
KK250050 COMBINE
HC      2
KK250060     FROM  250050
RK    868  0.0122   0.013            CIRC     3.0
KK250070     FROM  250060
RK    611  0.0122   0.013            CIRC     3.0
KK250070    BASIN
BA 0.059
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1260  0.0005    0.02            TRAP      23     1.0
RK   2268  0.0074    0.02            TRAP      23     1.0
KK250070 COMBINE
HC      2
KK250510    BASIN
BA 0.013
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    342  0.0005    0.02            TRAP      23     1.0
RK   2134  0.0074    0.02            TRAP      23     1.0
KK250520     FROM  250510
RK    649  0.0013   0.013            CIRC     2.5
KK250070     FROM  250520
RK    631  0.0013   0.013            CIRC     3.0
```

```
KK250070 COMBINE
HC      2
KK250080    FROM  250070
RK    783  0.0015   0.013            CIRC     4.5
KK250080   BASIN
BA 0.111
LS      0      77       0       0      98       0
UK    200  0.0100    0.30      15
UK    200  0.0100    0.10      85
RK   1994  0.0074    0.03            TRAP      23     1.0
RK   3280  0.0005    0.03            TRAP      23     1.0
KK250080 COMBINE
HC      2
KK250090    FROM  250080
RK   6138  0.0040   0.013            CIRC     3.0
KK250100    FROM  250090
RK    752  0.0015   0.035            TRAP    20.0     4.0
KK250100   BASIN
BA 0.185
LS      0      77       0       0      98       0
UK    200  0.0100    0.30      15
UK    200  0.0100    0.10      85
RK    376  0.0005    0.03            TRAP      23     1.0
RK  10168  0.0074    0.03            TRAP      23     1.0
KK250100 COMBINE
HC      2
KK250100 STORAGE
RS      1    STOR
SV   0.00   18.85   46.54   60.39    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    2.00    4.00    5.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00   22.00   63.00   79.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    4.0      50     3.0     1.5
KK250110    FROM  250100
RK    500  0.0005   0.025            TRAP    20.0     2.0
KK250110   BASIN
BA 0.239
LS      0      77       0       0      98       0
UK    200  0.0100    0.30      15
UK    200  0.0100    0.10      85
RK   2305  0.0074    0.03            TRAP      30     1.0
RK   6449  0.0005    0.03            TRAP      30     1.0
KK250110 COMBINE
HC      2
KK250120    FROM  250110
RK    500  0.0066   0.013            DEEP    10.0
KK250130    FROM  250120
RK   1126  0.0074   0.025            TRAP    50.0     2.0
KK250130   BASIN
BA 0.013
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    447  0.0005    0.03            TRAP      30     1.0
RK   1126  0.0074    0.03            TRAP      30     1.0
KK250130 COMBINE
HC      2
KK250710   BASIN
BA 0.129
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
```

```
UK   200  0.0100    0.10      85
RK  1264  0.0074    0.03            TRAP      23     1.0
RK  2273  0.0005    0.03            TRAP      23     1.0
KK250720    FROM  250710
RK  2657  0.0074   0.017            TRAP   105.0       1
KK250720   BASIN
BA 0.198
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  2428  0.0074    0.02            TRAP      23     1.0
RK  2429  0.0005    0.02            TRAP      41     1.0
KK250720 COMBINE
HC     2
KK250730    FROM  250720
RK   500  0.0066   0.013            CIRC     2.0
KK250740    FROM  250730
RK  1000  0.0074   0.027            TRAP     5.0     2.0
KK250740   BASIN
BA 0.044
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   811  0.0005    0.03            TRAP      23     1.0
RK  1000  0.0074    0.03            TRAP      49     1.0
KK250740 COMBINE
HC     2
KK250750    FROM  250740
RK  4391  0.0074   0.017            TRAP   123.8       1
KK250750   BASIN
BA 0.107
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   369  0.0045    0.02            TRAP      30     1.0
RK  4391  0.0045    0.02            TRAP      75     1.0
KK250750 COMBINE
HC     2
KK250610   BASIN
BA 0.130
LS     0      77       0       0      98       0
UK   200  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK  2166  0.0005    0.03            TRAP      23     1.0
RK  2334  0.0074    0.02            TRAP      23     1.0
KK250940    FROM  250610
RK  3473  0.0074   0.025            TRAP     5.0     3.0
KK250910   BASIN
BA 0.225
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  3198  0.0005    0.02            TRAP      23     1.0
RK  5783  0.0074    0.02            TRAP      23     1.0
KK250920    FROM  250910
RK  2254  0.0005   0.017            TRAP    90.0       1
KK250920   BASIN
BA 0.139
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
```

```
UK   200  0.0100    0.10      85
RK  1413  0.0074    0.03            TRAP      23     1.0
RK  4068  0.0005    0.02            TRAP      23     1.0
KK250920 COMBINE
HC     2
KK250930    FROM  250920
RK  3041  0.0074   0.017            TRAP    60.0       1
KK250930   BASIN
BA 0.068
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   977  0.0005    0.02            TRAP      23     1.0
RK  3041  0.0074    0.02            TRAP      23     1.0
KK250930 COMBINE
HC     2
KK250940    FROM  250930
RK  2452  0.0074   0.017            TRAP    60.0       1
KK250940 COMBINE
HC     2
KK250750    FROM  250940
RK   500  0.0032   0.013            CIRC     3.5
KK250750 COMBINE
HC     2
KK251010   BASIN
BA 0.105
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   315  0.0005    0.03            TRAP      23     1.0
RK 14886  0.0074    0.02            TRAP      41     1.0
KK250750    FROM  251010
RK   500  0.0022   0.013            DEEP     6.0
KK250750 COMBINE
HC     2
KK250130    FROM  250750
RK   500  0.0051   0.025            TRAP     8.0     2.0
KK250130 COMBINE
HC     2
KK250140    FROM  250130
RK   702  0.0020   0.025            TRAP    20.0     3.0
KK250140   BASIN
BA 0.032
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   702  0.0005    0.03            TRAP      23     1.0
RK   917  0.0074    0.03            TRAP      30     1.0
KK250140 COMBINE
HC     2
KK250150    FROM  250140
RK   500  0.0025   0.013            DEEP     8.0
KK250160    FROM  250150
RK  1222  0.0024   0.025            TRAP    10.0     3.0
KK250160   BASIN
BA 0.015
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   924  0.0005    0.03            TRAP      23     1.0
```

```
RK  1222  0.0074    0.03            TRAP      30     1.0
KK250160 COMBINE
HC     2
KK250170    FROM  250160
RK  1248  0.0056   0.013            CIRC     7.5
KK250170   BASIN
BA 0.011
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  1248  0.0074    0.03            TRAP      24     1.0
KK250170 COMBINE
HC     2
KK250180    FROM  250170
RK   500  0.0199   0.013            CIRC     7.5
KK250180 RETRIEV
DR250180
KK250180    FROM  251190
RK   687  0.0045   0.013            CIRC     4.0
KK250180 COMBINE
HC     2
KK250180  DIVERT
DT250200
DI     0      50     100     150     200     500    1000    2000
DQ     0      50      90     110     125     140     160     170
KK250190    FROM  250180
RK   945  0.0025   0.035            TRAP    50.0     4.0
KK250190   BASIN
BA 0.048
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   726  0.0005    0.03            TRAP      19     1.0
RK  1017  0.0074    0.03            TRAP      30     1.0
KK250190 COMBINE
HC     3
KK250190 STORAGE
RS     1    STOR
SV  0.00    2.06   10.97   27.66   48.45   71.38  101.60  116.71    0.00    0.00
SE  0.00    2.00    4.00    6.00    8.00   10.00   12.00   13.00    0.00    0.00
SQ  0.00   30.00   90.00  157.00  212.00  255.00  290.00  310.00    0.00    0.00
ST  12.0     100     3.0     1.5
KK250200    FROM  250190
RK   500  0.0020   0.013            CIRC     5.0
KK250200 RETRIEV
DR250200
KK250200    FROM  250180
RK  1216  0.0045   0.013            CIRC     5.0
KK250200   BASIN
BA 0.004
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK   761  0.0005    0.02            TRAP      30     1.0
RK  1434  0.0074    0.02            TRAP      30     1.0
KK250200 COMBINE
HC     3
KK250210    FROM  250200
RK   531  0.0020   0.013            CIRC     5.0
KK250210   BASIN
```

```
BA 0.011
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    472  0.0005    0.02            TRAP      30     1.0
RK   1905  0.0074    0.02            TRAP      30     1.0
KK250210 COMBINE
HC      2
KK250220    FROM  250210
RK   1447  0.0020   0.013            CIRC     5.0
KK250220   BASIN
BA 0.002
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1422  0.0045    0.02            TRAP      90     1.0
KK250220 COMBINE
HC      2
KK250230    FROM  250220
RK    638  0.0067   0.013            CIRC     5.0
KK250240    FROM  250230
RK    548  0.0060   0.013            CIRC     5.0
KK250240   BASIN
BA 0.093
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    743  0.0005    0.02            TRAP      19     1.0
RK   2637  0.0074    0.02            TRAP      38     1.0
KK250240 COMBINE
HC      2
KK251610   BASIN
BA 0.282
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1341  0.0005    0.03            TRAP      23     1.0
RK   5630  0.0074    0.03            TRAP      30     1.0
KK251620    FROM  251610
RK   2635  0.0074   0.017            TRAP    37.5       1
KK251620   BASIN
BA 0.019
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    119  0.0005    0.03            TRAP      25     1.0
RK   2635  0.0074    0.02            TRAP      30     1.0
KK251620 COMBINE
HC      2
KK251630    FROM  251620
RK   2644  0.0074   0.017            TRAP    60.0       1
KK251630   BASIN
BA 0.019
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    142  0.0005    0.03            TRAP      25     1.0
RK   2644  0.0074    0.02            TRAP      30     1.0
KK251630 COMBINE
HC      2
```

```
KK251640    FROM  251630
RK   500  0.0030   0.013            DEEP     8.0
KK251650    FROM  251640
RK   500  0.0030   0.013            DEEP     8.0
KK251650   BASIN
BA 0.084
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   378  0.0005    0.03            TRAP      25     1.0
RK  2679  0.0074    0.03            TRAP      30     1.0
KK251810   BASIN
BA 0.086
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   678  0.0005    0.03            TRAP      23     1.0
RK  3069  0.0074    0.03            TRAP      30     1.0
KK251820    FROM  251810
RK  2646  0.0074   0.025            TRAP    25.0     1.0
KK251820   BASIN
BA 0.084
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   429  0.0005    0.03            TRAP      25     1.0
RK  2646  0.0074    0.03            TRAP      30     1.0
KK251820 COMBINE
HC     2
KK251650    FROM  251820
RK  2679  0.0074   0.025            TRAP    25.0     1.0
KK251910   BASIN
BA 0.059
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  5588  0.0074    0.02            TRAP      30     1.0
KK251920    FROM  251910
RK   500  0.0035   0.013            CIRC     3.0
KK251650    FROM  251920
RK   500  0.0030   0.013            DEEP     6.0
KK251650 COMBINE
HC     4
KK251660    FROM  251650
RK   500  0.0030   0.013            DEEP    10.0
KK251670    FROM  251660
RK   500  0.0016   0.025            TRAP    10.0     1.0
KK251680    FROM  251670
RK   500  0.0016   0.013            DEEP    10.0
KK251690    FROM  251680
RK   506  0.0016   0.013            TRAP    20.0     1.0
KK250240    FROM  251690
RK  1818  0.0016   0.025            TRAP    20.0     1.0
KK250240 COMBINE
HC     2
KK250250    FROM  250240
RK   736  0.0032   0.013            CIRC     5.0
KK250260    FROM  250250
RK   500  0.0050   0.025            TRAP    10.0     4.0
KK252010   BASIN
```

```
BA 0.059
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    778  0.0074    0.03            TRAP      38     1.0
RK   1776  0.0005    0.03            TRAP      38     1.0
KK252010 STORAGE
RS      1    STOR
SV   0.00   10.58   32.31   65.80  111.77  143.11    0.00    0.00    0.00    0.00
SE   0.00    2.00    4.00    6.00    8.00    9.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00
ST    8.0      75     3.0     1.5
KK250260    FROM  252010
RK    500  0.0005   0.025            TRAP    10.0     2.0
KK250260   BASIN
BA 0.095
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    575  0.0005    0.02            TRAP      49     1.0
RK   4026  0.0074    0.03            TRAP      49     1.0
KK250260 COMBINE
HC      3
KK250270    FROM  250260
RK    500  0.0067   0.013            DEEP    10.0
KK250280    FROM  250270
RK    500  0.0050   0.025            TRAP    10.0     4.0
KK252410   BASIN
BA 0.040
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    281  0.0005    0.02            TRAP      25     1.0
RK   5094  0.0074    0.02            TRAP      30     1.0
KK252420    FROM  252410
RK    500  0.0026   0.013            CIRC     3.5
KK252420   BASIN
BA 0.033
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    316  0.0005    0.03            TRAP      25     1.0
RK   2567  0.0074    0.03            TRAP      30     1.0
KK252420 COMBINE
HC      2
KK252130    FROM  252420
RK    500  0.0026   0.013            CIRC     3.5
KK252110   BASIN
BA 0.105
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    476  0.0005    0.03            TRAP      23     1.0
RK   3760  0.0074    0.03            TRAP      30     1.0
KK252120    FROM  252110
RK   2657  0.0074   0.017            TRAP    37.5       1
KK252120   BASIN
BA 0.086
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
```

```
UK   100  0.0100    0.10      15
RK   533  0.0005    0.03            TRAP      25     1.0
RK  2657  0.0074    0.03            TRAP      30     1.0
KK252120 COMBINE
HC     2
KK252130    FROM  252120
RK  2664  0.0074   0.017            TRAP    37.5       1
KK252130   BASIN
BA 0.027
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   176  0.0005    0.02            TRAP      25     1.0
RK  2663  0.0074    0.02            TRAP      30     1.0
KK252130 COMBINE
HC     3
KK252140    FROM  252130
RK   500  0.0027   0.013            CIRC     5.0
KK252140   BASIN
BA 0.010
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   185  0.0005    0.03            TRAP      25     1.0
RK  1292  0.0074    0.03            TRAP      30     1.0
KK252140 COMBINE
HC     2
KK252150    FROM  252140
RK   500  0.0026   0.013            CIRC     5.0
KK252150   BASIN
BA 0.029
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   215  0.0005    0.03            TRAP      25     1.0
RK  2550  0.0074    0.02            TRAP      30     1.0
KK252150 COMBINE
HC     2
KK252160    FROM  252150
RK   500  0.0027   0.013            CIRC     5.0
KK252510   BASIN
BA 0.046
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   401  0.0005    0.03            TRAP      25     1.0
RK  2458  0.0074    0.03            TRAP      30     1.0
KK252160    FROM  252510
RK  2639  0.0074   0.025            TRAP    25.0     1.0
KK252160   BASIN
BA 0.013
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   178  0.0005    0.03            TRAP      25     1.0
RK  2639  0.0074    0.03            TRAP      30     1.0
KK252160 COMBINE
HC     3
KK252170    FROM  252160
RK   500  0.0027   0.013            CIRC     5.5
```

```
KK252610   BASIN
BA 0.740
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  3850  0.0005    0.03            TRAP      23     1.0
RK 10254  0.0074    0.03            TRAP      30     1.0
KK252620    FROM  252610
RK  2624  0.0074   0.017            TRAP    37.5       1
KK252620   BASIN
BA 0.038
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   339  0.0005    0.03            TRAP      25     1.0
RK  2624  0.0074    0.02            TRAP      30     1.0
KK252620 COMBINE
HC     2
KK252170    FROM  252620
RK  2990  0.0074   0.017            TRAP    37.5       1
KK252170 COMBINE
HC     2
KK252180    FROM  252170
RK   500  0.0027   0.013            CIRC     5.5
KK252180   BASIN
BA 0.030
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   248  0.0005    0.03            TRAP      25     1.0
RK  2990  0.0074    0.02            TRAP      30     1.0
KK252180 COMBINE
HC     2
KK252710   BASIN
BA 0.039
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   191  0.0005    0.03            TRAP      25     1.0
RK  2402  0.0074    0.03            TRAP      30     1.0
KK252720    FROM  252710
RK  2803  0.0074   0.025            TRAP    25.0     1.0
KK252720   BASIN
BA 0.039
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   176  0.0005    0.03            TRAP      25     1.0
RK  2803  0.0074    0.03            TRAP      30     1.0
KK252720 COMBINE
HC     2
KK252730    FROM  252720
RK   520  0.0026   0.013            CIRC     4.5
KK252730   BASIN
BA 0.040
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   224  0.0005    0.03            TRAP      25     1.0
RK  2838  0.0074    0.03            TRAP      30     1.0
```

```
KK252810   BASIN
BA 0.039
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   180  0.0005    0.03            TRAP      25     1.0
RK  2434  0.0074    0.03            TRAP      30     1.0
KK252730    FROM  252810
RK  2838  0.0074   0.025            TRAP    25.0     1.0
KK252730 COMBINE
HC     3
KK252740    FROM  252730
RK   500  0.0026   0.013            CIRC     5.5
KK252740   BASIN
BA 0.040
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   320  0.0005    0.03            TRAP      25     1.0
RK  2494  0.0074    0.03            TRAP      30     1.0
KK252740 COMBINE
HC     2
KK252750    FROM  252740
RK   500  0.0026   0.013            CIRC     7.0
KK252180    FROM  252750
RK   500  0.0027   0.013            CIRC     7.0
KK252180 COMBINE
HC     2
KK252190    FROM  252180
RK   955  0.0042   0.013            CIRC     8.0
KK252200    FROM  252190
RK   650  0.0042   0.013            CIRC     8.0
KK252210    FROM  252200
RK   963  0.0020   0.013            CIRC     6.5
KK252220    FROM  252210
RK   500  0.0025   0.013            CIRC     6.5
KK252230    FROM  252220
RK   500  0.0025   0.013            CIRC     6.5
KK252240    FROM  252230
RK   698  0.0025   0.013            CIRC     6.5
KK252250    FROM  252240
RK   551  0.0025   0.035            TRAP    20.0     4.0
KK252250   BASIN
BA 0.092
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   618  0.0005    0.02            TRAP      23     1.0
RK  3906  0.0074    0.03            TRAP      38     1.0
KK252250 COMBINE
HC     2
KK252250 STORAGE
RS     1    STOR
SV  0.00    8.02   16.96   26.76   31.76    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    4.00    6.00    7.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00   30.00   90.00  157.00  190.00    0.00    0.00    0.00    0.00    0.00
ST   6.0      50     3.0     1.5
KK250280    FROM  252250
RK  1431  0.0010   0.013            CIRC     5.0
KK250280 COMBINE
```

```
HC      2
KK250290     FROM  250280
RK   1287  0.0050   0.025            TRAP    10.0     4.0
KK250290    BASIN
BA 0.141
LS      0       77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1996  0.0074    0.02            TRAP      23     1.0
RK   4220  0.0005    0.02            TRAP      49     1.0
KK250290 COMBINE
HC      2
KK250300     FROM  250290
RK    500  0.0067   0.013            DEEP    10.0
KK252910    BASIN
BA 0.024
LS      0       77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    396  0.0005    0.02            TRAP      30     1.0
RK   1371  0.0074    0.02            TRAP      30     1.0
KK250300     FROM  252910
RK    500  0.0074   0.017            TRAP    97.5       1
KK250300 COMBINE
HC      2
KK253010    BASIN
BA 0.008
LS      0       77       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   1040  0.0074    0.02            TRAP      34     1.0
RK   2333  0.0005    0.02            TRAP      41     1.0
KK253020     FROM  253010
RK    500  0.0036   0.013            CIRC     3.5
KK253020    BASIN
BA 0.030
LS      0       77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    235  0.0005    0.02            TRAP      30     1.0
RK   4532  0.0074    0.02            TRAP      55     1.0
KK253020 COMBINE
HC      2
KK253030     FROM  253020
RK    500  0.0036   0.013            CIRC     3.5
KK250300     FROM  253030
RK    631  0.0052   0.013            CIRC     4.0
KK250300 COMBINE
HC      2
KK250310     FROM  250300
RK    535  0.0074   0.025            TRAP    22.0     2.0
KK250310    BASIN
BA 0.021
LS      0       77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    535  0.0005    0.03            TRAP      15     1.0
RK    580  0.0074    0.03            TRAP      25     1.0
KK250310 COMBINE
HC      2
```

```
KK250320    FROM  250310
RK   500  0.0067   0.013            DEEP     8.0
KK250330    FROM  250320
RK   561  0.0074   0.025            TRAP    22.0     2.0
KK250330   BASIN
BA 0.030
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   561  0.0005    0.03            TRAP      25     1.0
RK   607  0.0074    0.03            TRAP      25     1.0
KK250330 COMBINE
HC     2
KK250340    FROM  250330
RK   500  0.0060   0.013            DEEP     8.0
KK250350    FROM  250340
RK  1158  0.0038   0.025            TRAP    22.0     2.0
KK250350   BASIN
BA 0.054
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   630  0.0005    0.03            TRAP      23     1.0
RK  1158  0.0074    0.03            TRAP      23     1.0
KK250350 COMBINE
HC     2
KK250360    FROM  250350
RK   500  0.0067   0.013            DEEP     8.0
KK250360   BASIN
BA 0.041
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK  4179  0.0074    0.02            TRAP      25     1.0
KK250360 COMBINE R350, R3160 AND BASIN 360
HC     3
*
KK R360
KM ROUTING TO CONCENTRATION POINT CP3520
RS     1              -1
RC 0.035   0.030   0.035    1500   0.003
RX     0      10      20      40      80     100     110     120
RY    10      10      10       0       0      10      10      10
*
* 25-3520
*
KK253510   BASIN
BA 0.108
LS     0      77       0       0      98       0
UK   200  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK   950  0.0005    0.02            TRAP      30     1.0
RK  2817  0.0074    0.03            TRAP      30     1.0
KK253520    FROM  253510
RK   500  0.0074   0.025            TRAP    10.0     2.0
*
KKCP3520 COMBINE R360 AND BASIN 3520
HC     2
*
KK R3520
```

```
KM ROUTING TO CONCENTRATION POINT CP850
RS     1              -1
RC 0.035   0.030   0.035    1600   0.003
RX     0      10      20      40      80     100     110     120
RY    10      10      10       0       0      10      10      10
*
* 25-3350
*
KK253310   BASIN
BA 0.071
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   777  0.0005    0.02            TRAP      23     1.0
RK  2468  0.0074    0.02            TRAP      23     1.0
KK253320    FROM  253310
RK  2654  0.0074   0.017            TRAP    45.0       1
KK253320   BASIN
BA 0.086
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   953  0.0005    0.02            TRAP      23     1.0
RK  2654  0.0074    0.02            TRAP      23     1.0
KK253320 COMBINE
HC     2
KK253330    FROM  253320
RK   500  0.0020   0.013            DEEP    10.0
KK253340    FROM  253330
RK  2812  0.0074   0.017            TRAP    37.5       1
KK253340   BASIN
BA 0.109
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   537  0.0005    0.02            TRAP      19     1.0
RK  2812  0.0074    0.02            TRAP      23     1.0
KK253340 COMBINE
HC     2
KK253350    FROM  253340
RK   500  0.0074   0.025            TRAP    10.0     2.0
*
* 25-3450
*
KK253410   BASIN
BA 0.089
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   719  0.0005    0.02            TRAP      23     1.0
RK  2604  0.0074    0.02            TRAP      23     1.0
KK253420    FROM  253410
RK  2575  0.0074   0.017            TRAP    45.0       1
KK253420   BASIN
BA 0.093
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   625  0.0005    0.02            TRAP      23     1.0
RK  2575  0.0074    0.02            TRAP      23     1.0
```

```
KK253420 COMBINE
HC      2
KK253430     FROM  253420
RK    500  0.0112   0.013            CIRC     2.0
KK253440     FROM  253430
RK   2541  0.0074   0.017            TRAP    45.0       1
KK253440    BASIN
BA 0.042
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    390  0.0005    0.02            TRAP      19     1.0
RK   2541  0.0074    0.02            TRAP      23     1.0
KK253440 COMBINE
HC      2
KK253450     FROM  253440
RK    500  0.0074   0.025            TRAP    10.0     2.0
*
* 24-170
*
KK240010    BASIN
BA 0.039
PH   0.00     0.00    0.73    1.44    2.44    2.72    2.90    3.25
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   5048  0.0055    0.02            TRAP      34     1.0
KK240020     FROM  240010
RK    500  0.0030   0.013            CIRC     3.5
KK240020    BASIN
BA 0.009
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1238  0.0055    0.03            TRAP      34     1.0
KK240020 COMBINE
HC      2
KK240030     FROM  240020
RK    500  0.0030   0.013            CIRC     3.5
KK240030    BASIN
BA 0.039
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   2476  0.0055    0.02            TRAP      34     1.0
KK240030 COMBINE
HC      2
KK240040     FROM  240030
RK    500  0.0031   0.013            CIRC     3.5
KK240040    BASIN
BA 0.043
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    413  0.0019    0.02            TRAP      26     1.0
RK   5026  0.0055    0.03            TRAP      30     1.0
KK240040 COMBINE
HC      2
KK240050     FROM  240040
RK    500  0.0031   0.013            CIRC     3.5
```

Why is S24 after S25

```
KK240060    FROM  240050
RK   500  0.0042   0.013            CIRC     3.5
KK240060   BASIN
BA 0.079
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  5316  0.0055    0.02            TRAP      41     1.0
KK240060 COMBINE
HC     2
KK240210   BASIN
BA 1.302
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1841  0.0019    0.03            TRAP      41     1.0
RK  9776  0.0055    0.03            TRAP      41     1.0
KK240060    FROM  240210
RK  5312  0.0055   0.017            TRAP    41.3       1
KK240060 COMBINE
HC     2
KK240310   BASIN
BA 0.281
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  6797  0.0055    0.03            TRAP      38     1.0
RK  1266  0.0019    0.02            TRAP      41     1.0
KK240320    FROM  240310
RK   500  0.0027   0.013            CIRC     3.5
KK240320   BASIN
BA 0.108
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  5732  0.0055    0.03            TRAP      38     1.0
KK240320 COMBINE
HC     2
KK240330    FROM  240320
RK   500  0.0027   0.013            CIRC     3.5
KK240330   BASIN
BA 0.071
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  5010  0.0055    0.02            TRAP      38     1.0
KK240330 COMBINE
HC     2
KK240340    FROM  240330
RK   500  0.0027   0.013            CIRC     3.5
KK240340   BASIN
BA 0.028
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  2549  0.0055    0.03            TRAP      38     1.0
KK240340 COMBINE
HC     2
KK240060    FROM  240340
RK   500  0.0030   0.013            CIRC     3.5
```

```
KK240060 COMBINE
HC      2
KK240070     FROM  240060
RK    500  0.0049   0.013            CIRC     5.7
KK240080     FROM  240070
RK   2264  0.0049   0.015            DEEP     8.0
KK240080    BASIN
BA 0.026
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    745  0.0019    0.02            TRAP      26     1.0
RK   2264  0.0055    0.02            TRAP      38     1.0
KK240080 COMBINE
HC      2
KK240090     FROM  240080
RK    500  0.0049   0.015            DEEP     8.0
KK240090    BASIN
BA 0.060
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1922  0.0055    0.02            TRAP      23     1.0
RK   1450  0.0019    0.02            TRAP      26     1.0
KK240090 COMBINE
HC      2
KK240100     FROM  240090
RK   2259  0.0055   0.025            TRAP     5.0     1.0
KK240100    BASIN
BA 0.038
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    496  0.0019    0.02            TRAP      23     1.0
RK   2259  0.0055    0.03            TRAP      19     1.0
KK240100 COMBINE
HC      2
KK240110     FROM  240100
RK    500  0.0049   0.015            DEEP    10.0
KK240120     FROM  240110
RK   1149  0.0032   0.030            TRAP    20.0     3.0
KK240120    BASIN
BA 0.015
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    689  0.0019    0.02            TRAP      30     1.0
RK   1149  0.0055    0.03            TRAP      26     1.0
KK240120 COMBINE
HC      2
KK240130     FROM  240120
RK    500  0.0033   0.015            DEEP    10.0
KK240140     FROM  240130
RK    500  0.0032   0.025            TRAP    12.5     1.0
KK240140    BASIN
BA 0.006
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    405  0.0055    0.03            TRAP      19     1.0
```

```
KK240140 COMBINE
HC     2
KK240150    FROM  240140
RK   500  0.0031   0.015            DEEP    10.0
KK240160    FROM  240150
RK   701  0.0024   0.025            TRAP    12.5     1.0
KK240160   BASIN
BA 0.004
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   701  0.0055    0.03            TRAP      19     1.0
KK240160 COMBINE
HC     2
KK240170    FROM  240160
RK   500  0.0024   0.013            TRAP    10.0     1.0
*
KK CP850  COMBINE SUBBASINS 25-3350, 24-3450, 24-170, AND R3520
HC     4
*
KK R850
KM ROUTING TO CONCENTRATION POINT CP211
RS     1              -1
RC 0.035   0.030   0.035    3800   0.003
RX     0      10      20      40      80     100     110     120
RY    10      10      10       0       0      10      10      10
*
KK 680S
KM RUNOFF FROM SUBBASIN 680
BA 0.783
LS   0.0    76.3
UC 0.630   0.400
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
*  ***************** MODIFICATION  **********************************
*
KK 700S
KM RUNOFF FROM SUBBASIN 700
BA 0.665
LS   0.0    77.7
UC  0.22   0.096
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
KK CP211
KM FLOWS FROM SUBBASINS 680, 700,  24-530 AND R435, R850
HC     5
*
KK R211    FROM    CP211
KM ROUTING TO CONCENTRATION POINT CP221
RS     1              -1
RC 0.020   0.020   0.020    4000   0.015
RX  9554    9980    9983    9986    9988    9995   10434   10449
RY  1322    1316    1312    1308    1308    1314    1318    1322
* ***************** MODIFICATION  **********************************
*
KK 800S
KM RUNOFF FROM SUBBASIN 800
BA 0.470
```

25-3450?

No

There are two different channels that are being used for routing. One channel (Bernelli channel) enters IBW on the east side of 64th st, the channel on the east side of 64th Street enters IBW at 64th st. Part of the flows from this channel is diverted into Bernelli channel at mountain view.

Need to distinguish the routings within two channels. Might require subdividing S 680 into smaller basins.

more than a mile for Bernelli channel to IBW.

5280

grass maybe 0.025 – 0.03

```
LS   0.0    76.3
UC 0.253   0.164
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
KK 900S
KM RUNOFF FROM SUBBASIN 900
BA 0.882
LS   0.0    76.3
UC 0.417   0.199
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
KK 920S
KM RUNOFF FROM SUBBASIN 920
BA 0.250
LS   0.0    77.7
UC 0.096   0.039
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
KK R930
KM ROUTE SUB920 TO CP221   INDIAN BEND WASH AND SCOTTSDALE ROAD
RS     1              -1
RC 0.030   0.030   0.030    7200  0.0076
RX   0.0      10      20      24      34      38      48      58
RY    12      12      12      10      10      12      12      12
*
KK 940S
KM RUNOFF FROM SUBBASIN 940
BA 0.50
LS   0.00   76.3
UC 0.247   0.152
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
KK CP221
KM COMBINE FLOWS FROM SUB800, SUB900, SUB940, AND FLOW FROM R211,R930
HC     5
*
KK R221
KM ROUTE CP221 TO CP401
RS     1              -1
RC 0.030   0.030   0.030    1000   0.005
RX  8339    9321    9984    9989    9990   10059   10480   10820
RY  1303    1297    1292    1288    1288    1296    1297    1302
*
* 26-5250
*
KK265210   BASIN
BA 0.071
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1090  0.0016    0.02            TRAP      38     1.0
RK  1577  0.0074    0.02            TRAP      38     1.0
KK265220    FROM  265210
RK  4110  0.0016   0.017            TRAP    63.0       1
KK265220   BASIN
BA 0.053
```

where is CP401 on the map. ~~what~~ Storage routing through the lake? Why isn't Not done?

```
LS      0      69       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   4110  0.0074    0.02            TRAP      45     1.0
KK265220 COMBINE
HC      2
KK265310   BASIN
BA 0.079
LS      0      69       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    964  0.0016    0.02            TRAP      38     1.0
RK   2936  0.0074    0.02            TRAP      38     1.0
KK265320    FROM  265310
RK   1052  0.0016   0.017            TRAP    82.5       1
KK265320   BASIN
BA 0.104
LS      0      69       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   2560  0.0074    0.02            TRAP      38     1.0
RK   1052  0.0016    0.02            TRAP      83     1.0
KK265320 COMBINE
HC      2
KK265220    FROM  265320
RK    500  0.0016   0.017            TRAP    82.5       1
KK265220 COMBINE
HC      2
KK265230    FROM  265220
RK    731  0.0074   0.017            TRAP    82.5       1
KK265230   BASIN
BA 0.018
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   2629  0.0016    0.02            TRAP      38     1.0
KK265230 COMBINE
HC      2
KK265240    FROM  265230
RK    500  0.0074   0.017            TRAP    52.5       1
KK265240   BASIN
BA 0.030
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    963  0.0074    0.02            TRAP      24     1.0
RK   1514  0.0016    0.02            TRAP      53     1.0
KK265240 COMBINE
HC      2
KK265250    FROM  265240
RK    500  0.0074   0.025            TRAP    20.0     2.0
*
* 26-5460
*
KK265410   BASIN
BA 0.126
LS      0      69       0       0      98       0
UK     20  0.0100    0.40       6
UK    200  0.0100    0.10      94
RK   1261  0.0016    0.02            TRAP      75     1.0
```

```
RK  2469  0.0074    0.03            TRAP     105     1.0
KK265420    FROM  265410
RK   500  0.0067   0.013            CIRC     3.0
KK265430    FROM  265420
RK  1289  0.0074   0.025            TRAP    20.0     2.0
KK265430   BASIN
BA 0.037
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   749  0.0016    0.02            TRAP      38     1.0
RK  1289  0.0074    0.03            TRAP      98     1.0
KK265430 COMBINE
HC     2
KK265440    FROM  265430
RK   500  0.0067   0.013            CIRC     3.0
KK265450    FROM  265440
RK  1669  0.0074   0.025            TRAP    20.0     2.0
KK265450   BASIN
BA 0.043
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   565  0.0016    0.02            TRAP      38     1.0
RK  1669  0.0074    0.03            TRAP     104     1.0
KK265450 COMBINE
HC     2
KK265460    FROM  265450
RK   500  0.0067   0.013            CIRC     3.0
*
KK CP401
KM COMBINE FLOWS FROM R221 AND SUBBASINS 26-5250, 26-5460
HC     3
*
KK R401
KM ROUTE CP401 TO CP451
RS     1              -1
RC 0.030   0.030   0.030    2500   0.005
RX  8339    9321    9984    9989    9990   10059   10480   10820
RY  1303    1297    1292    1288    1288    1296    1297    1302
*
* 26-630
*
KK262910   BASIN
BA 0.032
PH  0.00    0.00    0.73    1.44    2.44    2.72    2.90    3.25
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  2220  0.0016    0.03            TRAP      45     1.0
KK262920    FROM  262910
RK   500  0.0067   0.013            CIRC     3.0
KK262930    FROM  262920
RK  4084  0.0074   0.027            TRAP     5.0     1.0
KK262930   BASIN
BA 0.013
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  4084  0.0074    0.02            TRAP     116     1.0
```

```
KK262930 COMBINE
HC      2
KK262940     FROM  262930
RK    611  0.0025   0.013            CIRC     3.0
KK262940   BASIN
BA 0.133
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1726  0.0016    0.03            TRAP      23     1.0
RK   3845  0.0074    0.03            TRAP      23     1.0
KK262940 COMBINE
HC      2
KK262950     FROM  262940
RK    500  0.0100   0.013            CIRC     4.5
KK262950   BASIN
BA 0.003
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    308  0.0074    0.02            TRAP      68     1.0
KK262950 COMBINE
HC      2
KK262960     FROM  262950
RK    500  0.0102   0.013            CIRC     4.5
KK262970     FROM  262960
RK    500  0.0102   0.013            CIRC     4.5
KK262970   BASIN
BA 0.002
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    825  0.0074    0.02            TRAP      68     1.0
KK262970 COMBINE
HC      2
KK262980     FROM  262970
RK    636  0.0078   0.013            CIRC     4.5
KK262980   BASIN
BA 0.002
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    636  0.0074    0.02            TRAP      68     1.0
KK262980 COMBINE
HC      2
KK262990     FROM  262980
RK    500  0.0050   0.013            CIRC     5.5
KK263000     FROM  262990
RK    500  0.0049   0.013            CIRC     5.5
KK263000   BASIN
BA 0.002
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    636  0.0074    0.02            TRAP      68     1.0
KK263000 COMBINE
HC      2
KK263010     FROM  263000
RK    500  0.0056   0.013            CIRC     5.5
KK263010   BASIN
```

```
BA 0.013
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    843  0.0074    0.02            TRAP      83     1.0
KK263010 COMBINE
HC      2
KK263020    FROM  263010
RK    954  0.0056   0.013            CIRC     6.0
KK263020   BASIN
BA 0.009
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    423  0.0074    0.03            TRAP      30     1.0
RK    563  0.0016    0.02            TRAP      83     1.0
KK263020 COMBINE
HC      2
KK263025    FROM  263020
RK    500  0.0016   0.027            TRAP    35.0     3.0
KK263410   BASIN
BA 0.028
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1548  0.0074    0.03            TRAP      19     1.0
KK263420    FROM  263410
RK    500  0.0067   0.013            CIRC     3.0
KK263430    FROM  263420
RK    766  0.0074   0.027            TRAP    10.0     2.0
KK263430   BASIN
BA 0.019
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    766  0.0074    0.03            TRAP      41     1.0
KK263430 COMBINE
HC      2
KK263440    FROM  263430
RK    500  0.0041   0.013            CIRC     3.0
KK263025    FROM  263440
RK    500  0.0016   0.027            TRAP    35.0     3.0
KK263025 COMBINE
HC      2
KK264010   BASIN
BA 0.051
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   2531  0.0074    0.03            TRAP     143     1.0
KK264020    FROM  264010
RK    500  0.0157   0.013            CIRC     2.5
KK263025    FROM  264020
RK    500  0.0016   0.027            TRAP    35.0     3.0
KK263025 COMBINE
HC      2
KK263910   BASIN
BA 0.004
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
```

```
UK   200  0.0100    0.10      85
RK  2354  0.0074    0.02            TRAP     143     1.0
KK263920    FROM  263910
RK   500  0.0026   0.013            CIRC     2.5
KK263930    FROM  263920
RK   500  0.0199   0.013            CIRC     2.5
KK263025    FROM  263930
RK   500  0.0016   0.027            TRAP    35.0     3.0
KK263025   BASIN
BA 0.008
LS     0      77       0       0      98       0
UK   209  0.0100    0.27      19
UK   132  0.0100    0.10      81
RK  1273  0.0016    0.02            TRAP      83     1.0
KK263025 COMBINE
HC     3
KK263025 STORAGE
RS     1    STOR
SV  0.00    0.20    0.55    1.87    2.64    3.49    4.42    5.42    6.49    7.56
SE  0.00    1.00    1.50    2.50    3.00    3.50    4.00    4.50    5.00    6.00
SQ  0.00   41.00   75.00  152.00  188.00  217.00  244.00  269.00  287.00  287.00
ST   5.0     100     3.0     1.5
KK263025
DT263030
DI     0      41      75     112     152     188     217     244     269     287
DI   310     326
DQ     0      39      69     102     138     170     197     220     243     259
DQ   279     293
KK263510   BASIN
BA 0.010
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   299  0.0074    0.03            TRAP      17     1.0
RK   921  0.0016    0.02            TRAP      34     1.0
KK263520    FROM  263510
RK   500  0.0695   0.013            CIRC     2.0
KK263530    FROM  263520
RK  1017  0.0074   0.025            TRAP     5.0     2.0
KK263530   BASIN
BA 0.021
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  1017  0.0074    0.03            TRAP      35     1.0
KK263530 COMBINE
HC     2
KK263710   BASIN
BA 0.031
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK  1009  0.0074    0.03            TRAP      34     1.0
RK   962  0.0016    0.03            TRAP      34     1.0
KK263720    FROM  263710
RK   500  0.0058   0.013            CIRC     2.0
KK263530    FROM  263720
RK   579  0.0074   0.017            TRAP    30.0     1.0
KK263530 COMBINE
HC     2
```

```
KK263540    FROM  263530
RK  2286  0.0074   0.017            TRAP    82.5      1
KK263540   BASIN
BA 0.052
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  2286  0.0074    0.02            TRAP      35     1.0
KK263540 COMBINE
HC     2
KK263540 STORAGE
RS     1    STOR
SV  0.00    1.72    5.65    7.62    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    4.00    5.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00
ST   4.0      60     3.0     1.5
KK263550    FROM  263540
RK   500  0.0074   0.025            TRAP    10.0     2.0
KK263550   BASIN
BA 0.014
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1001  0.0074    0.03            TRAP      35     1.0
KK263550 COMBINE
HC     2
KK263550 STORAGE
RS     1    STOR
SV  0.00    0.85    2.70    4.99    6.14    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    4.00    6.00    7.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00
ST   6.0     100     3.0     1.5
KK263560    FROM  263550
RK   500  0.0074   0.025            TRAP    10.0     2.0
KK263560   BASIN
BA 0.131
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  4589  0.0074    0.02            TRAP      69     1.0
KK263560 COMBINE
HC     2
KK263560 STORAGE
RS     1    STOR
SV  0.00    1.86    4.52    5.85    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    4.00    5.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00
ST   4.0      50     3.0     1.5
KK263570    FROM  263560
RK   500  0.0014   0.013            CIRC     3.0
KK263580    FROM  263570
RK  1099  0.0016   0.027            TRAP     5.0     2.0
KK263580   BASIN
BA 0.180
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1098  0.0016    0.03            TRAP      35     1.0
RK  4014  0.0074    0.03            TRAP      45     1.0
KK263580 COMBINE
```

```
HC      2
KK263810   BASIN
BA 0.018
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1010  0.0016    0.02            TRAP      49     1.0
KK263820    FROM  263810
RK    500  0.0011   0.013            CIRC     2.0
KK263580    FROM  263820
RK   4014  0.0074   0.027            TRAP     5.0     2.0
KK263580 COMBINE
HC      2
KK263590    FROM  263580
RK    500  0.0079   0.013            DEEP    10.0
KK263600    FROM  263590
RK   2312  0.0074   0.027            TRAP    10.0     2.0
KK263600   BASIN
BA 0.094
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   1184  0.0016    0.03            TRAP      38     1.0
RK   2312  0.0074    0.03            TRAP     143     1.0
KK263600 COMBINE
HC      2
KK263610    FROM  263600
RK    500  0.0079   0.013            DEEP    10.0
KK263620    FROM  263610
RK    500  0.0074   0.025            TRAP    20.0     2.0
KK263630    FROM  263620
RK    500  0.0079   0.013            DEEP    10.0
KK263630   BASIN
BA 0.006
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1011  0.0016    0.02            TRAP      41     1.0
KK263630 COMBINE
HC      3
KK263060    FROM  263630
RK   1800  0.0074   0.025            TRAP    20.0     2.0
KK263030 RETRIEV
DR263030
KK263030
DT261510
DI      0      39      69     102     138     170     197     220     243     259
DI    279     293
DQ      0      39      65      92     117     138     157     172     190     200
DQ    215     225
KK263040    FROM  263030
RK    500  0.0065   0.013            CIRC     1.5
KK263050    FROM  263040
RK   1480  0.0074   0.017            TRAP    37.5       1
KK263050   BASIN
BA 0.066
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1057  0.0016    0.03            TRAP      38     1.0
```

```
RK  1480  0.0074    0.03            TRAP     38     1.0
KK263050 COMBINE
HC     2
KK263050 STORAGE
RS     1    STOR
SV  0.00    1.16    1.74    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   2.0      20     3.0     1.5
KK263060    FROM  263050
RK   500  0.0074   0.025            TRAP    10.0     2.0
KK263060   BASIN
BA 0.023
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  1800  0.0074    0.03            TRAP    101     1.0
KK263060 COMBINE
HC     3
KK263070    FROM  263060
RK  1085  0.0074   0.025            TRAP    20.0     2.0
KK263070   BASIN
BA 0.016
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  1085  0.0074    0.03            TRAP    173     1.0
KK263070 COMBINE
HC     2
KK263080    FROM  263070
RK   500  0.0067   0.013            DEEP    10.0
KK263090    FROM  263080
RK   500  0.0074   0.025            TRAP    20.0     2.0
KK263090   BASIN
BA 0.013
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   837  0.0074    0.03            TRAP      38     1.0
KK263090 COMBINE
HC     2
KK263100    FROM  263090
RK   500  0.0067   0.013            DEEP    10.0
KK263110    FROM  263100
RK  2744  0.0074   0.025            TRAP    20.0     2.0
KK263110   BASIN
BA 0.061
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   499  0.0016    0.03            TRAP      36     1.0
RK  2744  0.0074    0.03            TRAP      38     1.0
KK263110 COMBINE
HC     2
KK263120    FROM  263110
RK   500  0.0067   0.013            DEEP    10.0
KK264110   BASIN
BA 0.131
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
```

```
UK   100  0.0100    0.10      15
RK  1144  0.0016    0.02            TRAP     38     1.0
RK  3503  0.0074    0.03            TRAP     38     1.0
KK263120    FROM  264110
RK  2003  0.0074   0.017            TRAP   60.0       1
KK263120 COMBINE
HC     2
KK263130    FROM  263120
RK   500  0.0074   0.025            TRAP   20.0     2.0
KK263130   BASIN
BA 0.010
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  2003  0.0074    0.02            TRAP     38     1.0
KK263130 COMBINE
HC     2
KK263140    FROM  263130
RK   500  0.0067   0.013            DEEP   10.0
KK263150    FROM  263140
RK  1705  0.0074   0.025            TRAP   20.0     2.0
KK263150   BASIN
BA 0.024
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK  1705  0.0074    0.03            TRAP     75     1.0
KK263150 COMBINE
HC     2
KK263160    FROM  263150
RK   500  0.0014   0.013            DEEP   10.0
KK263170    FROM  263160
RK   500  0.0016   0.025            TRAP   20.0     2.0
KK263180    FROM  263170
RK   819  0.0016   0.027            TRAP   35.0     3.0
KK263180   BASIN
BA 0.020
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK  1541  0.0074    0.03            TRAP     75     1.0
KK263180 COMBINE
HC     2
KK263180 STORAGE
RS     1    STOR
SV  0.00    1.65    4.37    7.42   10.93   14.69   18.45   22.21   25.97    0.00
SE  0.00    0.65    1.65    2.65    3.65    4.65    5.65    6.65    7.65    0.00
SQ  0.00    0.01    0.01    0.01   58.00  318.00  741.00 1155.00 1155.00    0.00
ST   6.5      75     3.0     1.5
KK263190    FROM  263180
RK   500  0.0016   0.025            TRAP   20.0     2.0
KK263200    FROM  263190
RK   500  0.0067   0.013            DEEP   10.0
KK263210    FROM  263200
RK   500  0.0074   0.025            TRAP   20.0     2.0
KK263210  DIVERT
DT260420
DI     0     273     914    1006    1128    1433    1994    2768    3725
DQ     0     201     547     608     634     659     684     708     731
KK263220    FROM  263210
```

```
RK   500  0.0074   0.025            TRAP    20.0     2.0
KK263220   BASIN
BA 0.009
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK  1444  0.0016    0.03            TRAP      38     1.0
KK263220 COMBINE
HC     2
KK263230    FROM  263220
RK   500  0.0067   0.013            DEEP    10.0
KK263240    FROM  263230
RK  1287  0.0074   0.025            TRAP    20.0     2.0
KK263250    FROM  263240
RK   500  0.0067   0.013            DEEP    10.0
KK263260    FROM  263250
RK   500  0.0074   0.025            TRAP    20.0     2.0
KK263260   BASIN
BA 0.021
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  1574  0.0074    0.03            TRAP      75     1.0
KK263260 COMBINE
HC     2
KK263270    FROM  263260
RK   500  0.0067   0.013            DEEP    10.0
KK263280    FROM  263270
RK   500  0.0074   0.025            TRAP    20.0     2.0
KK263280   BASIN
BA 0.012
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK  1930  0.0074    0.02            TRAP      75     1.0
KK263280 COMBINE
HC     2
KK264210   BASIN
BA 0.022
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK  1534  0.0074    0.03            TRAP      38     1.0
KK264210 STORAGE
RS     1    STOR
SV  0.00    3.17    4.76    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   2.0      50     3.0     1.5
KK263280    FROM  264210
RK   500  0.0074   0.025            TRAP    10.0     2.0
KK263280 COMBINE
HC     2
KK263290    FROM  263280
RK   590  0.0074   0.025            TRAP    20.0     2.0
KK263290   BASIN
BA 0.009
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
```

```
RK   590  0.0074    0.03            TRAP     41     1.0
KK263290 COMBINE
HC     2
KK263300    FROM  263290
RK   500  0.0029   0.013            DEEP     6.0
KK263310    FROM  263300
RK  1273  0.0074   0.025            TRAP    20.0    2.0
KK263310   BASIN
BA 0.013
LS     0      69       0       0      98       0
UK   158  0.0100    0.29      73
UK    53  0.0100    0.10      27
RK  1273  0.0074    0.03            TRAP     38     1.0
KK263310 COMBINE
HC     2
KK263320    FROM  263310
RK   500  0.0067   0.013            DEEP     6.0
KK263330    FROM  263320
RK  1280  0.0074   0.025            TRAP    20.0    2.0
KK263330   BASIN
BA 0.059
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  2782  0.0074    0.03            TRAP     45     1.0
KK263330 COMBINE
HC     2
KK263340    FROM  263330
RK   500  0.0067   0.013            DEEP     6.0
KK263340   BASIN
BA 0.007
LS     0      69       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK   942  0.0016    0.02            TRAP     38     1.0
KK263340 COMBINE
HC     2
KK264310   BASIN
BA 0.094
LS     0      69       0       0      98       0
UK   152  0.0100    0.30      76
UK    51  0.0100    0.10      24
RK  3182  0.0074    0.03            TRAP     38     1.0
KK263340    FROM  264310
RK   616  0.0016   0.017            TRAP   22.5      1
KK263340 COMBINE
HC     2
KK260580    FROM  263340
RK  1697  0.0074   0.025            TRAP    20.0    2.0
KK260010   BASIN
BA 0.062
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK 10117  0.0074    0.02            TRAP     94     1.0
KK260020    FROM  260010
RK   500  0.0067   0.013            CIRC     3.0
KK260710   BASIN
BA 0.012
LS     0      77       0       0      98       0
```

```
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1176  0.0074    0.03            TRAP      23     1.0
KK260020    FROM  260710
RK    500  0.0067   0.013            CIRC     3.0
KK260020 COMBINE
HC      2
KK260030    FROM  260020
RK   1229  0.0074   0.027            TRAP     5.0     2.0
KK260030   BASIN
BA 0.017
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1229  0.0074    0.03            TRAP      23     1.0
KK260030 COMBINE
HC      2
KK260040    FROM  260030
RK    500  0.0067   0.013            CIRC     3.0
KK260050    FROM  260040
RK    500  0.0074   0.027            TRAP     5.0     2.0
KK260810   BASIN
BA 0.028
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   2023  0.0074    0.03            TRAP      23     1.0
KK260820    FROM  260810
RK    500  0.0014   0.013            CIRC     2.0
KK260830    FROM  260820
RK    500  0.0067   0.013            CIRC     2.0
KK260050    FROM  260830
RK    500  0.0074   0.027            TRAP    10.0     2.0
KK260050 COMBINE
HC      2
KK260060    FROM  260050
RK    500  0.0074   0.027            TRAP     5.0     2.0
KK260060   BASIN
BA 0.027
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      20
UK    100  0.0100    0.10      80
RK   3170  0.0016    0.03            TRAP      41     1.0
KK260060 COMBINE
HC      2
KK260910   BASIN
BA 0.045
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1547  0.0074    0.03            TRAP      41     1.0
RK    806  0.0016    0.03            TRAP      41     1.0
KK260910 STORAGE
RS      1    STOR
SV   0.00    2.11    3.20    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    1.30    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00   13.60   13.60    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    1.5      30     3.0     1.5
KK260920    FROM  260910
RK    500  0.0067   0.013            CIRC     3.0
```

```
KK260060    FROM  260920
RK  1089  0.0074   0.027            TRAP    10.0     2.0
KK260060 COMBINE
HC     2
KK260070    FROM  260060
RK   500  0.0074   0.027            TRAP     5.0     2.0
KK261010   BASIN
BA 0.026
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   437  0.0074    0.02            TRAP      23     1.0
RK   728  0.0016    0.02            TRAP      23     1.0
KK261010 STORAGE
RS     1    STOR
SV  0.00    1.70    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00   17.00   17.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   1.0      30     3.0     1.5
KK260070    FROM  261010
RK   500  0.0016   0.027            TRAP    10.0     2.0
KK260070 COMBINE
HC     2
KK260080    FROM  260070
RK   500  0.0074   0.027            TRAP     5.0     2.0
KK260080   BASIN
BA 0.050
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  2601  0.0016    0.03            TRAP      23     1.0
KK260080 COMBINE
HC     2
KK260090    FROM  260080
RK   500  0.0067   0.013            CIRC     2.0
KK260100    FROM  260090
RK   725  0.0074   0.027            TRAP     5.0     2.0
KK261110   BASIN
BA 0.011
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   386  0.0074    0.02            TRAP      23     1.0
RK   328  0.0016    0.02            TRAP      23     1.0
KK261110 STORAGE
RS     1    STOR
SV  0.00    1.00    1.50    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.10    0.10    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   1.0      10     3.0     1.5
KK260100    FROM  261110
RK   500  0.0074   0.027            TRAP    10.0     2.0
KK260100 COMBINE
HC     2
KK260110    FROM  260100
RK   500  0.0074   0.027            TRAP     5.0     2.0
KK260110   BASIN
BA 0.028
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
```

```
UK    200  0.0100    0.10      85
RK    598  0.0016    0.03            TRAP      23     1.0
RK   1096  0.0074    0.03            TRAP      23     1.0
KK260110 COMBINE
HC      2
KK260120    FROM  260110
RK    500  0.0067   0.013            CIRC     2.0
KK260130    FROM  260120
RK    827  0.0074   0.027            TRAP     5.0     2.0
KK260130   BASIN
BA 0.013
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    349  0.0016    0.03            TRAP      23     1.0
RK    827  0.0074    0.03            TRAP      45     1.0
KK260130 COMBINE
HC      2
KK260140    FROM  260130
RK    500  0.0130   0.013            CIRC     4.5
KK260140   BASIN
BA 0.009
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    558  0.0016    0.03            TRAP      23     1.0
RK    448  0.0074    0.03            TRAP      23     1.0
KK260140 COMBINE
HC      2
KK260150    FROM  260140
RK    500  0.0160   0.013            CIRC     4.5
KK260160    FROM  260150
RK    500  0.0074   0.027            TRAP    35.0     3.0
KK260160   BASIN
BA 0.017
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    688  0.0016    0.03            TRAP      23     1.0
RK    999  0.0074    0.03            TRAP      30     1.0
KK260160 COMBINE
HC      2
KK260160 STORAGE
RS      1    STOR
SV   0.00    0.23    0.37    0.60    0.66    0.95    1.91    3.03    5.71    7.05
SE   0.00    0.80    1.30    2.15    2.30    3.30    4.30    5.30    7.30    8.30
SQ   0.00   44.00   88.00  180.00  196.00  284.00  350.00  404.00  500.00  500.00
ST    7.3      50     3.0     1.5
KK260170    FROM  260160
RK    500  0.0074   0.027            TRAP    10.0     2.0
KK261210   BASIN
BA 0.012
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      20
UK    100  0.0100    0.10      80
RK   1602  0.0074    0.03            TRAP      41     1.0
KK261220    FROM  261210
RK    500  0.0067   0.013            CIRC     3.0
KK261230    FROM  261220
RK    707  0.0074   0.027            TRAP    10.0     2.0
```

```
KK261230   BASIN
BA 0.005
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   427  0.0016    0.03            TRAP      41     1.0
RK   707  0.0074    0.03            TRAP      41     1.0
KK261230 COMBINE
HC     2
KK261240    FROM  261230
RK   768  0.0580   0.013            CIRC     3.0
KK261240   BASIN
BA 0.003
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1218  0.0074    0.02            TRAP      83     1.0
KK261240 COMBINE
HC     2
KK261250    FROM  261240
RK  1752  0.0090   0.013            CIRC     3.0
KK261250   BASIN
BA 0.005
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1733  0.0074    0.02            TRAP      45     1.0
KK261250 COMBINE
HC     2
KK261260    FROM  261250
RK   500  0.0116   0.013            CIRC     3.0
KK261260   BASIN
BA 0.072
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   736  0.0016    0.03            TRAP      75     1.0
RK  2581  0.0074    0.03            TRAP      90     1.0
KK261260 COMBINE
HC     2
KK261410   BASIN
BA 0.012
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   506  0.0016    0.03            TRAP      23     1.0
RK  1280  0.0074    0.03            TRAP      23     1.0
KK261420    FROM  261410
RK   500  0.0030   0.013            CIRC     3.0
KK261260    FROM  261420
RK   500  0.0064   0.013            CIRC     3.0
KK261260 COMBINE
HC     2
KK261270    FROM  261260
RK   621  0.0640   0.013            CIRC     3.0
KK261270   BASIN
BA 0.008
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
```

```
RK   621  0.0074    0.02            TRAP      83     1.0
KK261270 COMBINE
HC     2
KK261280    FROM  261270
RK   686  0.0090   0.013            CIRC     4.5
KK261280   BASIN
BA 0.039
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1701  0.0074    0.03            TRAP      19     1.0
KK261280 COMBINE
HC     2
KK261290    FROM  261280
RK   500  0.0162   0.013            CIRC     4.5
KK261300    FROM  261290
RK   500  0.0074   0.027            TRAP    35.0     3.0
KK261300   BASIN
BA 0.009
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   152  0.0016    0.03            TRAP      53     1.0
RK   882  0.0074    0.03            TRAP      53     1.0
KK261300 COMBINE
HC     2
KK261300 STORAGE
RS     1    STOR
SV  0.00    0.25    0.53    0.86    1.22    1.63    1.97    2.31    0.00    0.00
SE  0.00    0.50    1.00    1.50    2.00    2.60    3.00    4.00    0.00    0.00
SQ  0.00   20.00   35.00   54.00   73.00   97.00  111.00  111.00    0.00    0.00
ST   3.0      50     3.0     1.5
KK260170    FROM  261300
RK   500  0.0074   0.025            TRAP    20.0     2.0
KK260170   BASIN
BA 0.003
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      15
UK    50  0.0100    0.10      85
RK   415  0.0074    0.03            TRAP      38     1.0
KK260170 COMBINE
HC     3
KK260170 STORAGE
RS     1    STOR
SV  0.00    0.04    0.08    0.12    0.15    0.33    0.54    0.78    1.05    1.32
SE  0.00    1.00    2.00    3.00    3.80    4.30    4.80    5.30    5.60    6.60
SQ  0.00   74.00  202.00  360.00  480.00  552.00  605.00  672.00  696.00  696.00
ST   5.6      50     3.0     1.5
KK260180    FROM  260170
RK   500  0.0083   0.013            DEEP     8.0
KK260190    FROM  260180
RK   500  0.0074   0.027            TRAP    10.0     2.0
KK260190   BASIN
BA 0.016
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      15
UK    50  0.0100    0.10      85
RK   715  0.0074    0.03            TRAP      30     1.0
RK   715  0.0016    0.03            TRAP      53     1.0
KK260190 COMBINE
```

```
HC      2
KK260190 STORAGE
RS      1    STOR
SV   0.00    0.80    2.36    4.87    6.17    7.52    8.89   10.31   11.87   13.43
SE   0.00    1.30    2.30    3.30    3.80    4.30    4.80    5.30    6.30    7.30
SQ   0.00   93.00  189.00  286.00  334.00  382.00  430.00  478.00  575.00  575.00
ST    6.3      75     3.0     1.5
KK260200    FROM  260190
RK    500  0.0074   0.027            TRAP    10.0     2.0
KK260200   BASIN
BA 0.005
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      20
UK    100  0.0100    0.10      80
RK    600  0.0016    0.03            TRAP      30     1.0
KK260200 COMBINE
HC      2
KK261510   BASIN
BA 0.008
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      20
UK    100  0.0100    0.10      80
RK    471  0.0074    0.03            TRAP      30     1.0
RK    675  0.0016    0.03            TRAP      83     1.0
KK261510 RETRIEV
DR261510
KK261510
HC      2
KK261510 STORAGE
RS      1    STOR
SV   0.00    0.20    0.71    2.32    3.22    4.18    5.20    6.29    6.74    7.19
SE   0.00    1.00    2.00    3.00    3.50    4.00    4.50    5.00    5.20    6.20
SQ   0.00   18.00   51.00   91.00  110.00  123.00  143.00  157.00  164.00  164.00
ST    5.2      50     3.0     1.5
KK260200    FROM  261510
RK    600  0.0016   0.025            TRAP    20.0     2.0
KK260200 COMBINE
HC      2
KK260200 STORAGE
RS      1    STOR
SV   0.00    0.20    0.86    1.77    2.74    3.79    4.91    6.09    7.86    9.63
SE   0.00    1.00    2.70    3.20    3.70    4.20    4.70    5.20    5.90    6.90
SQ   0.00   60.00  234.00  276.00  314.00  344.00  376.00  400.00  440.00  440.00
ST    5.9     100     3.0     1.5
KK260210    FROM  260200
RK    500  0.0087   0.013            DEEP    10.0
KK260220    FROM  260210
RK   1274  0.0074   0.025            TRAP    10.0     2.0
KK260220   BASIN
BA 0.036
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   2615  0.0074    0.03            TRAP      38     1.0
KK260220 COMBINE
HC      2
KK260230    FROM  260220
RK    500  0.0067   0.013            DEEP    10.0
KK260240    FROM  260230
RK    739  0.0074   0.025            TRAP    10.0     2.0
```

```
KK260240   BASIN
BA 0.027
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   2035  0.0074    0.03            TRAP      38     1.0
KK260240 COMBINE
HC      2
KK260250    FROM  260240
RK    500  0.0067   0.013            DEEP    10.0
KK260260    FROM  260250
RK   2591  0.0074   0.025            TRAP    10.0     2.0
KK260260   BASIN
BA 0.054
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1519  0.0074    0.03            TRAP      38     1.0
RK   2591  0.0016    0.03            TRAP      35     1.0
KK260260 COMBINE
HC      2
KK260270    FROM  260260
RK    500  0.0067   0.013            DEEP    10.0
KK260270   BASIN
BA 0.012
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    812  0.0074    0.03            TRAP      17     1.0
RK    852  0.0016    0.02            TRAP      38     1.0
KK260270 COMBINE
HC      2
KK260280    FROM  260270
RK   1090  0.0074   0.025            TRAP    10.0     2.0
KK260280   BASIN
BA 0.010
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1089  0.0074    0.03            TRAP      38     1.0
KK260280 COMBINE
HC      2
KK260290    FROM  260280
RK    500  0.0067   0.013            DEEP    10.0
KK260300    FROM  260290
RK    500  0.0074   0.025            TRAP    10.0     2.0
KK260300   BASIN
BA 0.055
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   2012  0.0074    0.03            TRAP      38     1.0
KK260300 COMBINE
HC      2
KK260310    FROM  260300
RK    500  0.0067   0.013            DEEP    10.0
KK260320    FROM  260310
RK    563  0.0074   0.025            TRAP    20.0     2.0
KK260320   BASIN
BA 0.022
```

```
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      20
UK    100  0.0100    0.10      80
RK   1067  0.0016    0.03            TRAP      38     1.0
RK    563  0.0074    0.03            TRAP      38     1.0
KK260320 COMBINE
HC      2
KK260330    FROM  260320
RK    500  0.0067   0.013            DEEP    10.0
KK260340    FROM  260330
RK    500  0.0074   0.025            TRAP    10.0     2.0
KK260350    FROM  260340
RK    500  0.0074   0.027            TRAP    35.0     3.0
KK260350   BASIN
BA 0.016
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      20
UK    100  0.0100    0.10      80
RK    913  0.0016    0.03            TRAP      38     1.0
KK260350 COMBINE
HC      2
KK260350 STORAGE
RS      1    STOR
SV   0.00    0.92    2.83    4.85    7.01    9.51   12.65   16.32   20.16   24.00
SE   0.00    0.50    1.50    2.50    3.50    4.50    5.50    6.50    7.50    8.50
SQ   0.00    0.01    0.01    0.01   21.00  110.00  237.00  393.00  567.00  567.00
ST    7.5      75     3.0     1.5
KK260360    FROM  260350
RK    500  0.0016   0.025            TRAP    10.0     2.0
KK260370    FROM  260360
RK    500  0.0014   0.025            DEEP    10.0
KK260380    FROM  260370
RK    500  0.0016   0.025            TRAP    10.0     2.0
KK260390    FROM  260380
RK    500  0.0074   0.027            TRAP    35.0     3.0
KK260390   BASIN
BA 0.017
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      20
UK    100  0.0100    0.10      80
RK   1246  0.0074    0.03            TRAP      38     1.0
KK260390 COMBINE
HC      2
KK261610   BASIN
BA 0.088
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1008  0.0016    0.03            TRAP      45     1.0
RK   2983  0.0074    0.03            TRAP      45     1.0
KK261620    FROM  261610
RK    656  0.0074   0.027            TRAP    10.0     2.0
KK261620   BASIN
BA 0.028
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    723  0.0016    0.02            TRAP      23     1.0
RK    656  0.0074    0.03            TRAP      45     1.0
KK261620 STORAGE
```

```
RS      1    STOR
SV   0.00    1.14    1.71    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    2.0      20     3.0     1.5
KK261620 COMBINE
HC      2
KK261630    FROM  261620
RK   1680  0.0074   0.017            TRAP    50.0     1.0
KK261630   BASIN
BA 0.107
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1001  0.0016    0.02            TRAP      38     1.0
RK   1680  0.0074    0.03            TRAP      45     1.0
KK261630 COMBINE
HC      2
KK261640    FROM  261630
RK    500  0.0074   0.025            TRAP    10.0     1.0
KK261640   BASIN
BA 0.007
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1246  0.0016    0.02            TRAP      38     1.0
KK261640 COMBINE
HC      2
KK261650    FROM  261640
RK    500  0.0067   0.013            CIRC     3.0
KK261650   BASIN
BA 0.013
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1183  0.0016    0.02            TRAP      38     1.0
KK261650 COMBINE
HC      2
KK261660    FROM  261650
RK   1227  0.0074   0.025            TRAP    10.0     2.0
KK261660   BASIN
BA 0.044
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    797  0.0016    0.03            TRAP      38     1.0
RK   1823  0.0074    0.03            TRAP      38     1.0
KK261660 COMBINE
HC      2
KK261670    FROM  261660
RK    500  0.0067   0.013            CIRC     3.0
KK261680    FROM  261670
RK    500  0.0074   0.025            TRAP    10.0     2.0
KK261680   BASIN
BA 0.035
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   2695  0.0074    0.03            TRAP      38     1.0
KK261680 COMBINE
```

```
HC      2
KK261690     FROM  261680
RK    500  0.0067   0.013            CIRC     3.0
KK261700     FROM  261690
RK    745  0.0074   0.025            TRAP    10.0     2.0
KK261700    BASIN
BA 0.048
LS      0       77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   2601  0.0074    0.03            TRAP      38     1.0
KK261700 COMBINE
HC      2
KK261710     FROM  261700
RK    500  0.0067   0.013            CIRC     3.0
KK261720     FROM  261710
RK   1243  0.0074   0.025            TRAP    10.0     2.0
KK261720    BASIN
BA 0.039
LS      0       77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   2352  0.0074    0.03            TRAP      38     1.0
KK261720 COMBINE
HC      2
KK261730     FROM  261720
RK    500  0.0067   0.013            CIRC     3.0
KK261740     FROM  261730
RK    562  0.0074   0.025            TRAP    10.0     2.0
KK261740    BASIN
BA 0.095
LS      0       77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   2546  0.0074    0.03            TRAP      75     1.0
KK261740 COMBINE
HC      2
KK261750     FROM  261740
RK    500  0.0074   0.025            TRAP    10.0     2.0
KK261750    BASIN
BA 0.007
LS      0       77       0       0      98       0
UK    150  0.0100    0.30      15
UK     50  0.0100    0.10      85
RK    478  0.0074    0.03            TRAP      38     1.0
KK261750 COMBINE
HC      2
KK261760     FROM  261750
RK    500  0.0067   0.013            DEEP    12.0
KK261770     FROM  261760
RK    500  0.0074   0.025            TRAP    10.0     2.0
KK261770    BASIN
BA 0.009
LS      0       77       0       0      98       0
UK    150  0.0100    0.30      15
UK     50  0.0100    0.10      85
RK    997  0.0074    0.03            TRAP      53     1.0
KK261770 COMBINE
HC      2
KK261780     FROM  261770
```

```
RK   500  0.0067   0.013            DEEP    12.0
KK261790    FROM  261780
RK   908  0.0074   0.025            TRAP    20.0     2.0
KK260390    FROM  261790
RK   500  0.0016   0.027            TRAP    35.0     3.0
KK260390 COMBINE
HC     2
KK260390 STORAGE
RS     1    STOR
SV  0.00    0.57    1.83    3.28    5.36    8.28   11.88   16.32   20.76    0.00
SE  0.00    0.50    1.50    2.50    3.50    4.50    5.50    6.50    7.50    0.00
SQ  0.00    0.01    0.01    0.01   43.00  334.00  942.00 1251.00 1251.00    0.00
ST   6.5      50     3.0     1.5
KK260400    FROM  260390
RK   500  0.0016   0.025            TRAP    10.0     2.0
KK260400   BASIN
BA 0.012
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK  1439  0.0074    0.03            TRAP      38     1.0
KK260400 COMBINE
HC     2
KK260410    FROM  260400
RK   500  0.0014   0.013            DEEP    10.0
KK260420    FROM  260410
RK  1073  0.0074   0.025            TRAP    20.0     2.0
KK260420   BASIN
BA 0.075
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK  2139  0.0016    0.03            TRAP      30     1.0
RK  2668  0.0074    0.03            TRAP      30     1.0
KK263210 RETRIEV
DR260420
KK260420    FROM  263210
RK   839  0.0016   0.025            TRAP    20.0     2.0
KK260420 COMBINE
HC     3
KK261910   BASIN
BA 0.053
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  2204  0.0074    0.02            TRAP      45     1.0
RK   806  0.0016    0.03            TRAP      45     1.0
KK261920    FROM  261910
RK   500  0.0067   0.013            CIRC     3.0
KK261930    FROM  261920
RK   859  0.0074   0.025            TRAP    20.0     4.0
KK261930   BASIN
BA 0.016
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK   552  0.0074    0.02            TRAP      23     1.0
RK   859  0.0016    0.03            TRAP      90     1.0
KK261930 COMBINE
HC     2
```

```
KK261940    FROM  261930
RK   500  0.0067   0.013            CIRC     3.0
KK261950    FROM  261940
RK  1132  0.0074   0.025            TRAP    20.0     4.0
KK261950   BASIN
BA 0.014
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK   252  0.0074    0.03            TRAP      34     1.0
RK  1132  0.0016    0.03            TRAP      98     1.0
KK261950 COMBINE
HC     2
KK261960    FROM  261950
RK   500  0.0067   0.013            CIRC     3.0
KK261970    FROM  261960
RK   625  0.0074   0.025            TRAP    20.0     4.0
KK261970   BASIN
BA 0.005
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK   246  0.0016    0.03            TRAP      56     1.0
RK   626  0.0074    0.03            TRAP     128     1.0
KK261970 COMBINE
HC     2
KK261980    FROM  261970
RK   500  0.0067   0.013            CIRC     3.0
KK261990    FROM  261980
RK   615  0.0074   0.025            TRAP    20.0     4.0
KK261990   BASIN
BA 0.011
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK  3505  0.0074    0.02            TRAP      90     1.0
KK262210   BASIN
BA 0.077
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   581  0.0016    0.02            TRAP      45     1.0
RK  4025  0.0074    0.03            TRAP      45     1.0
KK261990    FROM  262210
RK   500  0.0014   0.013            CIRC     3.0
KK261990 COMBINE
HC     3
KK262000    FROM  261990
RK   651  0.0074   0.025            TRAP    20.0     4.0
KK262000   BASIN
BA 0.051
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   852  0.0016    0.02            TRAP      60     1.0
RK  1724  0.0074    0.03            TRAP      60     1.0
KK262000 COMBINE
HC     2
KK262310   BASIN
BA 0.021
```

```
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   2419  0.0074    0.03            TRAP      45     1.0
KK262320    FROM  262310
RK   3384  0.0074   0.017            TRAP    45.0       1
KK262320   BASIN
BA 0.072
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    627  0.0016    0.03            TRAP      45     1.0
RK   3384  0.0074    0.02            TRAP      45     1.0
KK262320 COMBINE
HC      2
KK262000    FROM  262320
RK   1724  0.0074   0.017            TRAP    60.0       1
KK262000 COMBINE
HC      2
KK262010    FROM  262000
RK    500  0.0067   0.013            CIRC     3.0
KK262020    FROM  262010
RK    904  0.0074   0.025            TRAP    20.0     4.0
KK262020   BASIN
BA 0.043
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1487  0.0074    0.03            TRAP      45     1.0
KK262020 COMBINE
HC      2
KK262030    FROM  262020
RK    500  0.0049   0.013            DEEP    10.0
KK262410   BASIN
BA 0.012
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1880  0.0074    0.03            TRAP      83     1.0
KK262030    FROM  262410
RK    500  0.0067   0.013            CIRC     3.5
KK262030 COMBINE
HC      2
KK262040    FROM  262030
RK   1026  0.0035   0.025            TRAP     6.0     4.0
KK262040   BASIN
BA 0.007
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   1082  0.0074    0.03            TRAP      83     1.0
KK262040 COMBINE
HC      2
KK262050    FROM  262040
RK    500  0.0009   0.013            DEEP    10.0
KK262060    FROM  262050
RK    678  0.0045   0.025            TRAP     6.0     4.0
KK262060   BASIN
BA 0.005
LS      0      77       0       0      98       0
```

```
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   678  0.0074    0.03            TRAP      38     1.0
KK262060 COMBINE
HC     2
KK262070    FROM  262060
RK   500  0.0045   0.013            DEEP    10.0
KK262080    FROM  262070
RK   718  0.0045   0.025            TRAP     6.0     4.0
KK262080   BASIN
BA 0.024
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  1718  0.0074    0.03            TRAP      38     1.0
KK262080 COMBINE
HC     2
KK262510   BASIN
BA 0.031
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  2586  0.0074    0.03            TRAP      38     1.0
KK262080    FROM  262510
RK   500  0.0016   0.013            CIRC     2.5
KK262080 COMBINE
HC     2
KK262090    FROM  262080
RK  1114  0.0045   0.025            TRAP     6.0     4.0
KK262090   BASIN
BA 0.008
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  1114  0.0074    0.03            TRAP      71     1.0
KK262090 COMBINE
HC     2
KK262100    FROM  262090
RK   500  0.0150   0.013            DEEP     8.0
KK262110    FROM  262100
RK  1358  0.0045   0.025            TRAP     6.0     4.0
KK262110   BASIN
BA 0.017
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  1358  0.0074    0.03            TRAP      75     1.0
KK262110 COMBINE
HC     2
KK262120    FROM  262110
RK   500  0.0117   0.013            DEEP     6.0
KK262610   BASIN
BA 0.210
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1998  0.0016    0.02            TRAP      38     1.0
RK  2045  0.0074    0.02            TRAP      38     1.0
KK262120    FROM  262610
RK   500  0.0010   0.013            CIRC     4.5
```

```
KK262120 COMBINE
HC      2
KK262130     FROM  262120
RK    650  0.0016   0.025            TRAP     6.0     3.0
KK262130   BASIN
BA 0.015
LS      0       77       0       0      98       0
UK    300  0.0100    0.20      20
UK    100  0.0100    0.10      80
RK   1284  0.0074    0.03            TRAP      83     1.0
KK262130 COMBINE
HC      2
KK262130 STORAGE
RS      1    STOR
SV   0.00    0.55    2.50    3.63    4.91    6.40   10.11   13.64   16.10   18.56
SE   0.00    0.65    2.65    3.65    4.65    5.65    7.65    9.15   10.15   11.15
SQ   0.00    0.01    0.01   31.00  122.00  243.00  550.00  749.00 1313.00 1313.00
ST   10.1      75     3.0     1.5
KK262140     FROM  262130
RK    500  0.0050   0.013            DEEP    10.0
KK260420     FROM  262140
RK   1690  0.0045   0.025            TRAP     6.0     4.0
KK260420 COMBINE
HC      2
KK260420 STORAGE
RS      1    STOR
SV   0.00    1.58    4.19    7.15   10.96   16.02   20.77   22.59   28.20   33.81
SE   0.00    0.66    1.66    2.66    3.66    4.66    5.41    5.66    6.41    7.41
SQ   0.00    0.01    0.01    0.01  273.00  914.00 1128.00 1433.00 3725.00 3725.00
ST    6.4      75     3.0     1.5
KK260430     FROM  260420
RK    500  0.0024   0.013            DEEP    10.0
KK260440     FROM  260430
RK   1028  0.0024   0.025            TRAP    10.0     5.0
KK260440   BASIN
BA 0.086
LS      0       77       0       0      98       0
UK    300  0.0100    0.20      20
UK    100  0.0100    0.10      80
RK   2775  0.0074    0.03            TRAP      30     1.0
RK   1028  0.0016    0.03            TRAP      60     1.0
KK260440 COMBINE
HC      2
KK260450     FROM  260440
RK    500  0.0024   0.013            DEEP    10.0
KK260460     FROM  260450
RK   1688  0.0024   0.025            TRAP    10.0     5.0
KK260460   BASIN
BA 0.056
LS      0       77       0       0      98       0
UK    300  0.0100    0.20      20
UK    100  0.0100    0.10      80
RK   5368  0.0074    0.03            TRAP      38     1.0
KK260460 COMBINE
HC      2
KK260470     FROM  260460
RK    500  0.0024   0.013            DEEP    10.0
KK260480     FROM  260470
RK    502  0.0024   0.025            TRAP    10.0     5.0
KK260480   BASIN
```

```
BA 0.082
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK  3042  0.0074    0.03            TRAP      24     1.0
RK   993  0.0016    0.03            TRAP      24     1.0
KK260480 COMBINE
HC     2
KK260490    FROM  260480
RK   500  0.0050   0.013            DEEP    12.0
KK260500    FROM  260490
RK   500  0.0074   0.025            TRAP    10.0     3.0
KK260500   BASIN
BA 0.112
LS     0      77       0       0      98       0
UK   292  0.0100    0.21      85
UK    97  0.0100    0.10      15
RK  5416  0.0074    0.03            TRAP      38     1.0
KK260500 COMBINE
HC     2
KK260510    FROM  260500
RK   500  0.0067   0.013            DEEP    12.0
KK260515    FROM  260510
RK   500  0.0074   0.025            TRAP    10.0     3.0
KK262710   BASIN
BA 0.057
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  2342  0.0074    0.03            TRAP      38     1.0
KK262720    FROM  262710
RK  3423  0.0074   0.025            TRAP    10.0     2.0
KK262720   BASIN
BA 0.038
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK  3423  0.0074    0.03            TRAP      24     1.0
KK262720 COMBINE
HC     2
KK262725    FROM  262720
RK   500  0.0020   0.013            DEEP    10.0
KK260515    FROM  262725
RK   500  0.0074   0.025            TRAP     5.0     3.0
KK260515 COMBINE
HC     2
KK260520    FROM  260515
RK   847  0.0074   0.025            TRAP    10.0     3.0
KK260520   BASIN
BA 0.020
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   847  0.0074    0.03            TRAP      38     1.0
KK260520 COMBINE
HC     2
KK260530    FROM  260520
RK   500  0.0067   0.013            DEEP    12.0
KK260540    FROM  260530
RK   898  0.0074   0.025            TRAP    10.0     3.0
```

```
KK260540   BASIN
BA 0.012
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    898  0.0074    0.03            TRAP      38     1.0
KK260540 COMBINE
HC      2
KK260550    FROM  260540
RK    500  0.0067   0.013            DEEP    12.0
KK260560    FROM  260550
RK    500  0.0074   0.025            TRAP    10.0     3.0
KK260560   BASIN
BA 0.044
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   2708  0.0074    0.02            TRAP      60     1.0
KK260560 COMBINE
HC      2
KK262810   BASIN
BA 0.109
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    519  0.0016    0.03            TRAP      38     1.0
RK   5297  0.0074    0.03            TRAP      38     1.0
KK260560    FROM  262810
RK   2708  0.0074   0.017            TRAP    60.0       1
KK260560 COMBINE
HC      2
KK260570    FROM  260560
RK    500  0.0067   0.013            DEEP    12.0
KK260570   BASIN
BA 0.008
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    780  0.0016    0.02            TRAP      23     1.0
KK260570 COMBINE
HC      2
KK260580    FROM  260570
RK   1787  0.0074   0.025            TRAP    20.0     2.0
KK260580   BASIN
BA 0.111
LS      0      69       0       0      98       0
UK    300  0.0100    0.20      20
UK    100  0.0100    0.10      80
RK   2415  0.0074    0.03            TRAP      38     1.0
KK260580 COMBINE
HC      3
KK260590    FROM  260580
RK    947  0.0074   0.025            TRAP    20.0     2.0
KK260590   BASIN
BA 0.097
LS      0      69       0       0      98       0
UK    300  0.0100    0.20      20
UK    100  0.0100    0.10      80
RK   3471  0.0074    0.03            TRAP      38     1.0
KK260590 COMBINE
```

```
HC      2
KK264410   BASIN
BA 0.050
LS      0       77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    791  0.0016    0.02            TRAP      38     1.0
RK   1211  0.0074    0.03            TRAP      38     1.0
KK264420    FROM  264410
RK    500  0.0067   0.013            CIRC     3.0
KK264430    FROM  264420
RK    600  0.0074   0.025            TRAP    10.0     2.0
KK264430   BASIN
BA 0.019
LS      0       77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    709  0.0016    0.02            TRAP      38     1.0
RK    600  0.0074    0.03            TRAP      98     1.0
KK264430 COMBINE
HC      2
KK264440    FROM  264430
RK    500  0.0067   0.013            CIRC     3.0
KK264450    FROM  264440
RK    533  0.0074   0.025            TRAP    10.0     2.0
KK264450   BASIN
BA 0.018
LS      0       77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    688  0.0016    0.02            TRAP      35     1.0
RK    533  0.0074    0.03            TRAP      45     1.0
KK264450 COMBINE
HC      2
KK264460    FROM  264450
RK    500  0.0067   0.013            CIRC     3.0
KK264470    FROM  264460
RK   2921  0.0074   0.025            TRAP    20.0     2.0
KK264470   BASIN
BA 0.093
LS      0       77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   2921  0.0016    0.03            TRAP      98     1.0
KK264470 COMBINE
HC      2
KK264610   BASIN
BA 0.153
LS      0       77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    582  0.0016    0.02            TRAP      38     1.0
RK   3231  0.0074    0.02            TRAP      38     1.0
KK264470    FROM  264610
RK   1565  0.0074   0.017            TRAP    37.5       1
KK264470 COMBINE
HC      2
KK264480    FROM  264470
RK   1653  0.0074   0.025            TRAP    20.0     2.0
KK264480   BASIN
```

```
BA 0.058
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   2582  0.0074    0.03            TRAP      38     1.0
KK264480 COMBINE
HC      2
KK264490    FROM  264480
RK    500  0.0028   0.013            DEEP    10.0
KK264500    FROM  264490
RK   1213  0.0074   0.025            TRAP    20.0     2.0
KK264500   BASIN
BA 0.005
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   1213  0.0074    0.03            TRAP      38     1.0
KK264500 COMBINE
HC      2
KK264510    FROM  264500
RK    500  0.0067   0.013            DEEP    10.0
KK264520    FROM  264510
RK   1194  0.0074   0.025            TRAP    20.0     2.0
KK264520   BASIN
BA 0.091
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   2013  0.0016    0.02            TRAP      38     1.0
KK264520 COMBINE
HC      2
KK264710   BASIN
BA 0.021
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    299  0.0016    0.02            TRAP      21     1.0
RK   1380  0.0074    0.02            TRAP      21     1.0
KK264520    FROM  264710
RK   2013  0.0016   0.025            TRAP    10.0     2.0
KK264520 COMBINE
HC      2
KK264530    FROM  264520
RK    500  0.0067   0.013            DEEP    10.0
KK264540    FROM  264530
RK    500  0.0074   0.025            TRAP    20.0     4.0
KK264550    FROM  264540
RK    731  0.0074   0.027            TRAP    35.0     3.0
KK264550   BASIN
BA 0.114
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   3305  0.0074    0.03            TRAP      42     1.0
KK264550 COMBINE
HC      2
KK264550 STORAGE
RS      1    STOR
SV   0.00    5.01   13.08   23.53   37.21   54.96   77.34   88.53    0.00    0.00
SE   0.00    2.00    4.00    6.00    8.00   10.00   12.00   13.00    0.00    0.00
```

```
SQ  0.00    0.01    0.01    0.01    0.01    0.01    0.01    0.01    0.00    0.00
ST  12.0     100     3.0     1.5
KK260590    FROM  264550
RK  2460  0.0074   0.025            TRAP    20.0     4.0
KK260590 COMBINE
HC     2
KK260600    FROM  260590
RK  2146  0.0074   0.025            TRAP    20.0     2.0
KK260600   BASIN
BA 0.108
LS     0      69       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK  1775  0.0074    0.03            TRAP      20     1.0
RK  2146  0.0016    0.03            TRAP      30     1.0
KK260600 COMBINE
HC     2
KK260610    FROM  260600
RK   500  0.0067   0.013            DEEP    12.0
KK264810   BASIN
BA 0.029
LS     0      69       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1645  0.0074    0.03            TRAP      30     1.0
KK264820    FROM  264810
RK   500  0.0025   0.013            CIRC     4.0
KK260610    FROM  264820
RK   500  0.0025   0.013            CIRC     4.0
KK260610 COMBINE
HC     2
KK260620    FROM  260610
RK  1750  0.0074   0.025            TRAP    20.0     2.0
KK260620   BASIN
BA 0.087
LS     0      69       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK  1750  0.0074    0.03            TRAP      21     1.0
KK260620 COMBINE
HC     2
KK264910   BASIN
BA 0.074
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  3146  0.0074    0.03            TRAP      18     1.0
KK264920    FROM  264910
RK   931  0.0074   0.017            TRAP    82.5       1
KK264920   BASIN
BA 0.043
LS     0      69       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK  1905  0.0074    0.03            TRAP      23     1.0
RK   931  0.0016    0.02            TRAP      83     1.0
KK264920 COMBINE
HC     2
KK264930    FROM  264920
RK   500  0.0010   0.013            CIRC     4.0
```

```
KK264930   BASIN
BA 0.003
LS     0      69       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   748  0.0074    0.02            TRAP      30     1.0
KK264930 COMBINE
HC     2
KK264940    FROM  264930
RK   500  0.0010   0.013            CIRC     4.0
KK264940   BASIN
BA 0.009
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      15
UK    50  0.0100    0.10      85
RK   516  0.0074    0.02            TRAP      15     1.0
RK   426  0.0016    0.02            TRAP      30     1.0
KK264940 COMBINE
HC     2
KK264950    FROM  264940
RK   500  0.0032   0.013            CIRC     4.0
KK264950   BASIN
BA 0.060
LS     0      69       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1614  0.0074    0.02            TRAP      30     1.0
KK264950 COMBINE
HC     2
KK265110   BASIN
BA 0.004
LS     0      69       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK  1305  0.0016    0.02            TRAP      83     1.0
KK264950    FROM  265110
RK   500  0.0030   0.013            CIRC     3.5
KK264950 COMBINE
HC     2
KK264960    FROM  264950
RK   500  0.0011   0.013            CIRC     4.0
KK264970    FROM  264960
RK   995  0.0011   0.013            CIRC     4.0
KK260620    FROM  264970
RK   573  0.0011   0.013            CIRC     4.0
KK260620 COMBINE
HC     2
KK260630    FROM  260620
RK   500  0.0067   0.013            DEEP    12.0
*
KK R630
KM ROUTE KK260630 TO CP421
RS     1              -1
RC 0.030   0.030   0.030    2000   0.005
RX  8339    9321    9984    9989    9990   10059   10480   10820
RY  1303    1297    1292    1288    1288    1296    1297    1302
*
* 27-5720
*
KK275710   BASIN
```

Missing Storage routing through McCormick Ranch Lake

```
BA 0.045
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1316  0.0062    0.02            TRAP      26     1.0
RK   958  0.0019    0.02            TRAP      26     1.0
KK275720    FROM  275710
RK   500  0.0062   0.025            TRAP    10.0     1.0
*
KK CP421
KM COMBINE FLOWS R630 AND SUB 27-5720
HC     2
*
KK R421
KM ROUTE CP421 TO CP501
RS     1              -1
RC 0.030   0.030   0.030    4500   0.005
RX  8339    9321    9984    9989    9990   10059   10480   10820
RY  1303    1297    1292    1288    1288    1296    1297    1302
*
KK CP451
KM COMBINE FLOWS R401 AND R421
HC     2
*
KK R451
KM ROUTE CP451 TO CP 501
RS     1              -1
RC 0.030   0.030   0.030    2400   0.005
RX  8339    9321    9984    9989    9990   10059   10480   10820
RY  1303    1297    1292    1288    1288    1296    1297    1302
*
* 27-570
*
KK270010   BASIN
BA 0.021
PH  0.00    0.00    0.73    1.44    2.44    2.72    2.90    3.25
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK   560  0.0019    0.03            TRAP       8     1.0
RK   555  0.0062    0.03            TRAP      15     1.0
KK270020    FROM  270010
RK   500  0.0056   0.013            CIRC     2.0
KK270030    FROM  270020
RK  1330  0.0062   0.030            TRAP    10.0     2.0
KK270030   BASIN
BA 0.050
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   492  0.0019    0.03            TRAP      11     1.0
RK  1330  0.0062    0.03            TRAP      23     1.0
KK270030 COMBINE
HC     2
KK270040    FROM  270030
RK   500  0.0011   0.013            CIRC     3.5
KK270050    FROM  270040
RK   500  0.0011   0.013            CIRC     3.5
KK270710   BASIN
BA 0.004
```

```
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1236  0.0019    0.02             TRAP      15     1.0
KK270720    FROM  270710
RK    500  0.0056   0.013             CIRC     1.5
KK270050    FROM  270720
RK    500  0.0062   0.027             TRAP    10.0     2.0
KK270050 COMBINE
HC      2
KK270060    FROM  270050
RK   1984  0.0062   0.027             TRAP    10.0     2.0
KK270060   BASIN
BA 0.029
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    582  0.0019    0.03             TRAP      11     1.0
RK   1984  0.0062    0.03             TRAP      19     1.0
KK270060 COMBINE
HC      2
KK270070    FROM  270060
RK    500  0.0056   0.015             DEEP     8.0
KK270080    FROM  270070
RK    500  0.0062   0.025             TRAP     5.0     2.0
KK270080   BASIN
BA 0.021
LS      0      77       0       0      98       0
UK     20  0.0100    0.40       6
UK    200  0.0100    0.10      94
RK    334  0.0019    0.03             TRAP      11     1.0
RK   1218  0.0062    0.03             TRAP      23     1.0
KK270080 COMBINE
HC      2
KK270810   BASIN
BA 0.015
LS      0      77       0       0      98       0
UK     20  0.0100    0.40       6
UK    200  0.0100    0.10      94
RK    479  0.0019    0.03             TRAP      11     1.0
RK    859  0.0062    0.03             TRAP      19     1.0
KK270820    FROM  270810
RK    500  0.0006   0.013             CIRC     2.0
KK270830    FROM  270820
RK   1801  0.0062   0.027             TRAP    10.0     2.0
KK270830   BASIN
BA 0.026
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    392  0.0019    0.03             TRAP      11     1.0
RK   1801  0.0062    0.03             TRAP      23     1.0
KK270830 COMBINE
HC      2
KK270840    FROM  270830
RK    500  0.0056   0.013             CIRC     2.0
KK270080    FROM  270840
RK   1218  0.0062   0.027             TRAP    10.0     2.0
KK270080 COMBINE
HC      2
```

```
KK270090    FROM  270080
RK   500  0.0056   0.015            DEEP    12.0
KK270100    FROM  270090
RK  1528  0.0062   0.027            TRAP    10.0     2.0
KK270100   BASIN
BA 0.093
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   625  0.0019    0.02            TRAP      23     1.0
RK  4403  0.0062    0.02            TRAP      26     1.0
KK270100 COMBINE
HC     2
KK270910   BASIN
BA 0.004
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   756  0.0062    0.02            TRAP      23     1.0
KK270920    FROM  270910
RK   500  0.0394   0.013            CIRC     1.5
KK270930    FROM  270920
RK   714  0.0062   0.027            TRAP    10.0     2.0
KK270930   BASIN
BA 0.010
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   764  0.0019    0.02            TRAP      23     1.0
RK   714  0.0062    0.03            TRAP      23     1.0
KK270930 COMBINE
HC     2
KK271110   BASIN
BA 0.022
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK  2155  0.0062    0.02            TRAP      23     1.0
RK  3074  0.0019    0.02            TRAP      30     1.0
KK271110 STORAGE
RS     1    STOR
SV  0.00    0.44    1.38    2.68    3.30    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    4.00    6.00    7.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00
ST   6.0      15     3.0     1.5
KK270930    FROM  271110
RK   500  0.0062   0.027            TRAP    10.0     2.0
KK270930 COMBINE
HC     2
KK270940    FROM  270930
RK   746  0.0062   0.027            TRAP    10.0     2.0
KK270940   BASIN
BA 0.023
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  1500  0.0019    0.02            TRAP      19     1.0
RK   746  0.0062    0.03            TRAP      19     1.0
KK270940 COMBINE
HC     2
```

```
KK270940 STORAGE
RS     1    STOR
SV  0.00    1.24    2.75    3.50    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    4.00    5.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00
ST   4.0      20     3.0     1.5
KK270950    FROM  270940
RK   698  0.0062   0.027            TRAP    10.0     2.0
KK270950   BASIN
BA 0.032
LS     0      77       0       0      98      .0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK   896  0.0019    0.03            TRAP      11     1.0
RK   698  0.0062    0.03            TRAP      23     1.0
KK270950 COMBINE
HC     2
KK270950 STORAGE
RS     1    STOR
SV  0.00    1.08    2.95    5.36    7.36    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    4.00    6.00    7.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00
ST   6.0      20     3.0     1.5
KK270960    FROM  270950
RK   814  0.0062   0.027            TRAP    10.0     2.0
KK270960   BASIN
BA 0.018
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1737  0.0019    0.03            TRAP      15     1.0
RK   814  0.0062    0.03            TRAP      23     1.0
KK270960 COMBINE
HC     2
KK270970    FROM  270960
RK   500  0.0056   0.013            CIRC     1.5
KK270980    FROM  270970
RK  1320  0.0062   0.027            TRAP    10.0     2.0
KK270980   BASIN
BA 0.029
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   415  0.0019    0.03            TRAP      11     1.0
RK  1320  0.0062    0.03            TRAP      23     1.0
KK270980 COMBINE
HC     2
KK270990    FROM  270980
RK   500  0.0056   0.013            CIRC     1.5
KK270100    FROM  270990
RK  1829  0.0062   0.025            TRAP    20.0     2.0
KK270100 COMBINE
HC     2
KK270110    FROM  270100
RK   500  0.0056   0.015            DEEP    10.0
KK270120    FROM  270110
RK   986  0.0062   0.025            TRAP    10.0     2.0
KK270120   BASIN
BA 0.013
LS     0      77       0       0      98       0
```

```
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    233  0.0019    0.02            TRAP      19     1.0
RK    986  0.0062    0.03            TRAP      23     1.0
KK270120 COMBINE
HC      2
KK270130    FROM  270120
RK    500  0.0056   0.015            DEEP    10.0
KK270130   BASIN
BA 0.020
LS      0      77       0       0      98       0
UK     20  0.0100    0.40       6
UK    200  0.0100    0.10      94
RK    385  0.0019    0.02            TRAP      23     1.0
RK   5284  0.0062    0.02            TRAP      30     1.0
KK270130 COMBINE
HC      2
KK270140    FROM  270130
RK    534  0.0062   0.027            TRAP    20.0     2.0
KK270140   BASIN
BA 0.011
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    531  0.0019    0.03            TRAP      11     1.0
RK   1593  0.0062    0.02            TRAP      23     1.0
KK270140 COMBINE
HC      2
KK270150    FROM  270140
RK    500  0.0056   0.015            DEEP    10.0
KK270160    FROM  270150
RK    717  0.0062   0.027            TRAP    20.0     2.0
KK270160   BASIN
BA 0.004
LS.     0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    717  0.0062    0.03            TRAP      26     1.0
KK270160 COMBINE
HC      2
KK270170    FROM  270160
RK    500  0.0056   0.015            DEEP    10.0
KK270180    FROM  270170
RK    500  0.0062   0.027            TRAP    20.0     2.0
KK270180   BASIN
BA 0.003
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    620  0.0062    0.02            TRAP      26     1.0
KK270180 COMBINE
HC      2
KK270190    FROM  270180
RK    500  0.0056   0.015            DEEP    10.0
KK270200    FROM  270190
RK   1160  0.0062   0.027            TRAP    20.0     2.0
KK270200   BASIN
BA 0.007
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
```

```
UK     50  0.0100    0.10      35
RK   1160  0.0062    0.03            TRAP      26     1.0
KK270200 COMBINE
HC      2
KK270210    FROM  270200
RK    500  0.0056   0.015            DEEP    10.0
KK270220    FROM  270210
RK    500  0.0062   0.027            TRAP    20.0     2.0
KK270220   BASIN
BA 0.004
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    584  0.0062    0.03            TRAP      26     1.0
KK270220 COMBINE
HC      2
KK271210   BASIN
BA 0.052
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   3086  0.0062    0.02            TRAP      26     1.0
KK271220    FROM  271210
RK   1344  0.0062   0.025            TRAP    10.0     2.0
KK271220   BASIN
BA 0.061
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   1202  0.0019    0.03            TRAP      15     1.0
RK   1344  0.0062    0.03            TRAP      23     1.0
KK271220 COMBINE
HC      2
KK270220    FROM  271220
RK    500  0.0062   0.025            TRAP    10.0     2.0
KK270220 COMBINE
HC      2
KK270230    FROM  270220
RK    512  0.0062   0.027            TRAP    20.0     2.0
KK270230   BASIN
BA 0.010
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    601  0.0019    0.02            TRAP      26     1.0
RK    512  0.0062    0.03            TRAP      26     1.0
KK270230 COMBINE
HC      2
KK270240    FROM  270230
RK    684  0.0062   0.027            TRAP    20.0     2.0
KK270240   BASIN
BA 0.013
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    219  0.0062    0.02            TRAP      15     1.0
RK   1224  0.0019    0.02            TRAP      23     1.0
KK270240 COMBINE
HC      2
KK270250    FROM  270240
```

```
RK   500  0.0056   0.015            DEEP    10.0
KK270260    FROM  270250
RK   500  0.0019   0.027            TRAP    20.0     2.0
KK271310   BASIN
BA 0.039
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK   819  0.0019    0.02            TRAP      30     1.0
RK  2556  0.0062    0.02            TRAP      75     1.0
KK271320    FROM  271310
RK   500  0.0098   0.013            CIRC     3.0
KK271320   BASIN
BA 0.039
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  1565  0.0062    0.02            TRAP      26     1.0
RK   793  0.0019    0.02            TRAP      56     1.0
KK271320 COMBINE
HC     2
KK271330    FROM  271320
RK   513  0.0064   0.013            CIRC     3.0
KK271330   BASIN
BA 0.003
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   513  0.0062    0.02            TRAP      30     1.0
KK271330 COMBINE
HC     2
KK271340    FROM  271330
RK   500  0.0064   0.013            CIRC     3.0
KK271340   BASIN
BA 0.002
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   360  0.0062    0.02            TRAP      56     1.0
KK271340 COMBINE
HC     2
KK271350    FROM  271340
RK   500  0.0064   0.013            CIRC     3.0
KK271350   BASIN
BA 0.002
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   332  0.0062    0.02            TRAP      56     1.0
KK271350 COMBINE
HC     2
KK271360    FROM  271350
RK   584  0.0070   0.013            CIRC     3.0
KK271360   BASIN
BA 0.003
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   584  0.0062    0.02            TRAP      56     1.0
KK271360 COMBINE
```

```
HC      2
KK271370     FROM  271360
RK    500  0.0041   0.013            CIRC     3.5
KK271370    BASIN
BA 0.002
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    314  0.0062    0.02            TRAP      56     1.0
KK271370 COMBINE
HC      2
KK271380     FROM  271370
RK    507  0.0088   0.013            CIRC     3.5
KK271380    BASIN
BA 0.003
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    507  0.0062    0.02            TRAP      56     1.0
KK271380 COMBINE
HC      2
KK271390     FROM  271380
RK    500  0.0026   0.013            CIRC     4.0
KK271400     FROM  271390
RK    500  0.0026   0.013            CIRC     4.0
KK271400    BASIN
BA 0.048
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   1285  0.0062    0.02            TRAP      23     1.0
RK    731  0.0019    0.02            TRAP      26     1.0
KK271400 COMBINE
HC      2
KK270260     FROM  271400
RK    500  0.0026   0.013            CIRC     4.0
KK270260 COMBINE
HC      2
KK270270     FROM  270260
RK    500  0.0062   0.027            TRAP    20.0     2.0
KK270270    BASIN
BA 0.005
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    655  0.0019    0.02            TRAP      19     1.0
KK270270 COMBINE
HC      2
KK270280     FROM  270270
RK    853  0.0056   0.015            DEEP    10.0
KK270280    BASIN
BA 0.019
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    538  0.0062    0.02            TRAP      23     1.0
RK    741  0.0019    0.02            TRAP      30     1.0
KK270280 COMBINE
HC      2
KK270290     FROM  270280
```

```
RK   986  0.0062   0.027            TRAP    20.0     2.0
KK270290   BASIN
BA 0.032
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK   505  0.0019    0.02            TRAP      30     1.0
RK  2321  0.0062    0.03            TRAP      30     1.0
KK270290 COMBINE
HC     2
KK270300    FROM  270290
RK   500  0.0056   0.015            DEEP    10.0
KK270310    FROM  270300
RK   767  0.0062   0.027            TRAP    20.0     2.0
KK270310   BASIN
BA 0.070
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK   692  0.0019    0.02            TRAP      26     1.0
RK  3148  0.0062    0.02            TRAP      26     1.0
KK270310 COMBINE
HC     2
KK270320    FROM  270310
RK   500  0.0040   0.015            DEEP    10.0
KK271510   BASIN
BA 0.043
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK   546  0.0019    0.02            TRAP      26     1.0
RK  1795  0.0062    0.03            TRAP      23     1.0
KK270320    FROM  271510
RK   500  0.0017   0.013            CIRC     2.0
KK270320 COMBINE
HC     2
KK270370    FROM  270320
RK   997  0.0062   0.025            TRAP    10.0     2.0
KK270370   BASIN
BA 0.026
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      26
UK   200  0.0100    0.10      74
RK   976  0.0019    0.03            TRAP      15     1.0
RK   980  0.0062    0.03            TRAP      26     1.0
KK270370 COMBINE
HC     2
KK270380    FROM  270370
RK   500  0.0056   0.013            CIRC     5.0
KK270390    FROM  270380
RK   500  0.0062   0.027            TRAP    20.0     2.0
KK270390   BASIN
BA 0.042
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK  1227  0.0019    0.03            TRAP      15     1.0
RK  1953  0.0062    0.03            TRAP      26     1.0
KK270390 COMBINE
HC     2
```

```
KK271610   BASIN
BA 0.011
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    610  0.0062    0.03            TRAP      11     1.0
RK    638  0.0019    0.03            TRAP      15     1.0
KK271610 STORAGE
RS      1    STOR
SV   0.00    0.75    1.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    2.0      20     3.0     1.5
KK271620    FROM  271610
RK    500  0.0019   0.027            TRAP    10.0     1.0
KK271620   BASIN
BA 0.039
LS      0      77       0       0      98       0
UK    200  0.0100    0.30      28
UK    200  0.0100    0.10      72
RK    658  0.0019    0.03            TRAP      15     1.0
RK    979  0.0062    0.03            TRAP      15     1.0
KK271620 COMBINE
HC      2
KK271630    FROM  271620
RK    500  0.0056   0.013            CIRC     2.0
KK271640    FROM  271630
RK   1672  0.0062   0.027            TRAP    10.0     2.0
KK271640   BASIN
BA 0.058
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   1342  0.0019    0.02            TRAP      26     1.0
RK   1672  0.0062    0.03            TRAP      23     1.0
KK271640 COMBINE
HC      2
KK271650    FROM  271640
RK    500  0.0069   0.015            DEEP    10.0
KK271660    FROM  271650
RK    799  0.0062   0.025            TRAP    20.0     2.0
KK271660   BASIN
BA 0.019
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1029  0.0062    0.03            TRAP      26     1.0
RK    799  0.0019    0.03            TRAP      26     1.0
KK271660 COMBINE
HC      2
KK271910   BASIN
BA 0.024
LS      0      77       0       0      98       0
UK     20  0.0100    0.40       6
UK    200  0.0100    0.10      94
RK    316  0.0019    0.02            TRAP      26     1.0
RK   1464  0.0062    0.02            TRAP      26     1.0
KK271910 STORAGE
RS      1    STOR
SV   0.00    1.26    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
```

```
SE  0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   2.0     100     0.0     1.5
KK271920    FROM  271910
RK   500  0.0062   0.027            TRAP    10.0     2.0
KK271920   BASIN
BA 0.001
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   525  0.0019    0.02            TRAP      26     1.0
KK271920 COMBINE
HC     2
KK271930    FROM  271920
RK   500  0.0145   0.013            CIRC     2.0
KK271660    FROM  271930
RK  1029  0.0062   0.027            TRAP    10.0     2.0
KK271660 COMBINE
HC     2
KK271670    FROM  271660
RK   500  0.0056   0.015            DEEP     8.0
KK271680    FROM  271670
RK   500  0.0019   0.025            TRAP    20.0     2.0
KK271680   BASIN
BA 0.020
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK   371  0.0062    0.03            TRAP      15     1.0
RK  1035  0.0019    0.03            TRAP      26     1.0
KK271680 COMBINE
HC     2
KK271690    FROM  271680
RK   500  0.0017   0.015            DEEP     8.0
KK272010   BASIN
BA 0.020
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   513  0.0019    0.03            TRAP      15     1.0
RK  1171  0.0062    0.03            TRAP      19     1.0
KK272020    FROM  272010
RK   500  0.0056   0.013            CIRC     2.0
KK272030    FROM  272020
RK  1727  0.0062   0.027            TRAP    20.0     2.0
KK272030   BASIN
BA 0.038
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   821  0.0019    0.03            TRAP      15     1.0
RK  1727  0.0062    0.03            TRAP      23     1.0
KK272030 COMBINE
HC     2
KK272040    FROM  272030
RK   500  0.0049   0.013            CIRC     2.0
KK272050    FROM  272040
RK  1578  0.0062   0.027            TRAP    10.0     2.0
KK272050   BASIN
BA 0.025
```

```
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1578  0.0062    0.03            TRAP      26     1.0
KK272050 COMBINE
HC      2
KK272060    FROM  272050
RK    500  0.0056   0.013            CIRC     1.5
KK271690    FROM  272060
RK    500  0.0062   0.027            TRAP    10.0     2.0
KK271690 COMBINE
HC      2
KK271700    FROM  271690
RK   1171  0.0062   0.027            TRAP    20.0     2.0
KK271700   BASIN
BA 0.026
LS      0      77       0       0      98       0
UK     20  0.0100    0.40       6
UK    200  0.0100    0.10      94
RK    260  0.0062    0.03            TRAP      15     1.0
RK   1171  0.0062    0.03            TRAP      30     1.0
KK271700 COMBINE
HC      2
KK272110   BASIN
BA 0.009
LS      0      77       0       0      98       0
UK     20  0.0100    0.40       6
UK    200  0.0100    0.10      94
RK    228  0.0019    0.02            TRAP      23     1.0
RK    616  0.0062    0.02            TRAP      26     1.0
KK272120    FROM  272110
RK    500  0.0056   0.013            CIRC     1.5
KK271700    FROM  272120
RK   1290  0.0062   0.027            TRAP    10.0     2.0
KK271700 COMBINE
HC      2
KK271710    FROM  271700
RK    500  0.0056   0.015            DEEP     8.0
KK271720    FROM  271710
RK   2731  0.0062   0.027            TRAP    20.0     2.0
KK271720   BASIN
BA 0.062
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   1455  0.0019    0.03            TRAP      19     1.0
RK   2731  0.0062    0.03            TRAP      26     1.0
KK271720 COMBINE
HC      2
KK272210   BASIN
BA 0.044
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    467  0.0019    0.03            TRAP      15     1.0
RK   2167  0.0062    0.03            TRAP      26     1.0
KK272220    FROM  272210
RK    500  0.0056   0.013            CIRC     1.5
KK272230    FROM  272220
RK   1697  0.0062   0.027            TRAP    10.0     2.0
```

```
KK272230   BASIN
BA 0.040
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   510  0.0019    0.03            TRAP      15     1.0
RK  1231  0.0062    0.03            TRAP      23     1.0
KK272230 COMBINE
HC     2
KK272240    FROM  272230
RK   500  0.0056   0.013            CIRC     2.0
KK272250    FROM  272240
RK  1364  0.0062   0.030            TRAP    10.0     2.0
KK272250   BASIN
BA 0.027
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK   483  0.0019    0.03            TRAP      15     1.0
RK  1374  0.0062    0.03            TRAP      26     1.0
KK272250 COMBINE
HC     2
KK272250 STORAGE
RS     1    STOR
SV  0.00    0.64    1.43    2.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    4.00    5.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00
ST   4.0     100     3.0     1.5
KK271720    FROM  272250
RK  1455  0.0062   0.030            TRAP    10.0     2.0
KK271720 COMBINE
HC     2
KK271730    FROM  271720
RK   500  0.0056   0.015            DEEP     8.0
KK271740    FROM  271730
RK  1371  0.0062   0.027            TRAP    10.0     2.0
KK271740   BASIN
BA 0.022
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   569  0.0019    0.02            TRAP      23     1.0
RK  1371  0.0062    0.03            TRAP      26     1.0
KK271740 COMBINE
HC     2
KK271750    FROM  271740
RK   500  0.0056   0.015            DEEP     8.0
KK271750   BASIN
BA 0.013
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  1383  0.0019    0.02            TRAP      19     1.0
KK271750 COMBINE
HC     2
KK272310   BASIN
BA 0.016
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
```

```
RK  1403  0.0062    0.03            TRAP     15     1.0
KK272310 STORAGE
RS     1    STOR
SV  0.00    0.66    1.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   2.0      30     3.0     1.5
KK271750    FROM  272310
RK   596  0.0019   0.017            TRAP   33.8      1
KK271750 COMBINE
HC     2
KK271760    FROM  271750
RK   500  0.0062   0.027            TRAP   10.0    2.0
KK271760   BASIN
BA 0.006
LS     0      77       0       0     98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   356  0.0019    0.03            TRAP     15     1.0
RK   315  0.0062    0.03            TRAP     23     1.0
KK271760 COMBINE
HC     2
KK272410   BASIN
BA 0.024
LS     0      77       0       0     98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK   456  0.0062    0.03            TRAP     15     1.0
RK  1100  0.0019    0.03            TRAP     19     1.0
KK272410 STORAGE
RS     1    STOR
SV  0.00    3.25    4.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   2.0     100     3.0     1.5
KK272420    FROM  272410
RK   500  0.0062   0.027            TRAP   10.0    2.0
KK272420   BASIN
BA 0.006
LS     0      77       0       0     98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK   572  0.0019    0.03            TRAP     11     1.0
RK   327  0.0062    0.03            TRAP     19     1.0
KK272420 COMBINE
HC     2
KK272430    FROM  272420
RK   500  0.0052   0.013            CIRC    2.0
KK272440    FROM  272430
RK  1711  0.0062   0.025            TRAP   20.0    2.0
KK272440   BASIN
BA 0.059
LS     0      77       0       0     98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  2322  0.0062    0.03            TRAP     15     1.0
RK  1711  0.0019    0.03            TRAP     23     1.0
KK272440 COMBINE
HC     2
KK272610   BASIN
```

```
BA 0.026
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK   700  0.0019    0.03            TRAP      15     1.0
RK   924  0.0062    0.03            TRAP      19     1.0
KK272620    FROM  272610
RK   500  0.0052   0.013            CIRC     2.0
KK272440    FROM  272620
RK  2322  0.0062   0.025            TRAP    10.0     2.0
KK272440 COMBINE
HC     2
KK272440 STORAGE
RS     1    STOR
SV  0.00    7.04    8.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    6.00    7.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   6.0     100     3.0     1.5
KK272450    FROM  272440
RK   500  0.0056   0.015            DEEP    10.0
KK272460    FROM  272450
RK  1671  0.0062   0.025            TRAP    10.0     2.0
KK272460   BASIN
BA 0.037
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1746  0.0019    0.03            TRAP      19     1.0
RK  1671  0.0062    0.03            TRAP      23     1.0
KK272460 COMBINE
HC     2
KK272510    FROM  272460
RK   626  0.0062   0.027            TRAP    10.0     2.0
KK272710   BASIN
BA 0.005
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   332  0.0019    0.02            TRAP      19     1.0
RK   591  0.0062    0.03            TRAP      15     1.0
KK272710 STORAGE
RS     1    STOR
SV  0.00    0.71    1.79    2.50    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    4.00    5.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00
ST   4.0      50     3.0     1.5
KK272510    FROM  272710
RK   500  0.0062   0.027            TRAP     5.0     1.0
KK272510 COMBINE
HC     2
KK272520    FROM  272510
RK   570  0.0062   0.025            TRAP    20.0     2.0
KK272520   BASIN
BA 0.100
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  3686  0.0062    0.02            TRAP      26     1.0
RK  1371  0.0019    0.02            TRAP      26     1.0
KK272520 COMBINE
```

```
HC      2
KK272810   BASIN
BA 0.007
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    673  0.0062    0.02            TRAP      23     1.0
RK    536  0.0019    0.03            TRAP      15     1.0
KK272810 STORAGE
RS      1    STOR
SV   0.00    0.81    1.87    2.50    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    2.00    4.00    5.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00
ST    4.0      20     3.0     1.5
KK272820    FROM  272810
RK   1564  0.0062   0.027            TRAP    10.0     2.0
KK272820   BASIN
BA 0.089
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    890  0.0019    0.02            TRAP      26     1.0
RK   2446  0.0062    0.03            TRAP      26     1.0
KK272820 COMBINE
HC      2
KK272830    FROM  272820
RK    500  0.0058   0.013            CIRC     1.5
KK272840    FROM  272830
RK   3500  0.0062   0.027            TRAP    10.0     2.0
KK272840   BASIN
BA 0.083
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1984  0.0019    0.03            TRAP      23     1.0
RK   3500  0.0062    0.03            TRAP      26     1.0
KK272840 COMBINE
HC      2
KK272910   BASIN
BA 0.025
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    511  0.0019    0.03            TRAP      23     1.0
RK    834  0.0062    0.02            TRAP      23     1.0
KK272840    FROM  272910
RK    874  0.0062   0.027            TRAP    20.0     2.0
RK    267  0.0062   0.025            TRAP    20.0     2.0
KK272840 COMBINE
HC      2
KK272520    FROM  272840
RK    500  0.0062   0.025            TRAP    20.0     2.0
KK272520 COMBINE
HC      2
KK272530    FROM  272520
RK    500  0.0056   0.013            CIRC     3.0
KK272540    FROM  272530
RK   1249  0.0062   0.025            TRAP    20.0     2.0
KK272540   BASIN
BA 0.054
```

```
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    753  0.0019    0.02            TRAP      26     1.0
RK   3574  0.0062    0.02            TRAP      26     1.0
KK272540 COMBINE
HC      2
KK272550    FROM  272540
RK    500  0.0056   0.015            DEEP    10.0
KK272550   BASIN
BA 0.023
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    632  0.0019    0.02            TRAP      30     1.0
RK   3738  0.0062    0.02            TRAP      26     1.0
KK272550 COMBINE
HC      2
KK271760    FROM  272550
RK    500  0.0062   0.025            TRAP    20.0     2.0
KK271760 COMBINE
HC      2
KK271770    FROM  271760
RK   1052  0.0062   0.027            TRAP    10.0     2.0
KK271770   BASIN
BA 0.052
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   1139  0.0019    0.03            TRAP      23     1.0
RK   1052  0.0062    0.03            TRAP      26     1.0
KK271770 COMBINE
HC      2
KK271780    FROM  271770
RK    500  0.0056   0.013            CIRC     4.0
KK273010   BASIN
BA 0.040
LS      0      77       0       0      98       0
UK     20  0.0100    0.40       6
UK    200  0.0100    0.10      94
RK   1538  0.0019    0.02            TRAP      26     1.0
RK   1269  0.0062    0.02            TRAP      26     1.0
KK273020    FROM  273010
RK   3352  0.0062   0.027            TRAP    10.0     2.0
KK273020   BASIN
BA 0.046
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    408  0.0019    0.02            TRAP      26     1.0
RK   3352  0.0062    0.03            TRAP      26     1.0
KK273020 COMBINE
HC      2
KK273030    FROM  273020
RK    500  0.0056   0.015            DEEP    10.0
KK273040    FROM  273030
RK    500  0.0062   0.027            TRAP     5.0     1.0
KK273040   BASIN
BA 0.005
LS      0      77       0       0      98       0
```

```
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    342  0.0019    0.03            TRAP      15      1.0
RK    424  0.0062    0.03            TRAP      23      1.0
KK273040 COMBINE
HC      2
KK273050    FROM  273040
RK    500  0.0056   0.015            DEEP    10.0
KK273060    FROM  273050
RK    732  0.0062   0.027            TRAP     5.0      1.0
KK273060   BASIN
BA 0.016
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    436  0.0019    0.03            TRAP      15      1.0
RK    732  0.0062    0.03            TRAP      23      1.0
KK273060 COMBINE
HC      2
KK273070    FROM  273060
RK    962  0.0017   0.013            CIRC     4.0
KK273070   BASIN
BA 0.006
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    290  0.0019    0.02            TRAP      11      1.0
RK    303  0.0062    0.02            TRAP      11      1.0
KK273070 COMBINE
HC      2
KK273210   BASIN
BA 0.020
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    376  0.0019    0.02            TRAP      23      1.0
RK   1211  0.0062    0.03            TRAP      23      1.0
KK273210 STORAGE
RS      1    STOR
SV   0.00    1.32    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    4.00    5.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    4.0      40     3.0     1.5
KK273070    FROM  273210
RK    500  0.0019   0.017            TRAP    30.0       1
KK273070 COMBINE
HC      2
KK273080    FROM  273070
RK    500  0.0017   0.013            CIRC     4.0
KK273080   BASIN
BA 0.007
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    435  0.0019    0.02            TRAP      11      1.0
RK    286  0.0062    0.02            TRAP      11      1.0
KK273080 COMBINE
HC      2
KK273090    FROM  273080
RK    504  0.0017   0.013            CIRC     4.0
```

```
KK273090   BASIN
BA 0.001
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   220  0.0062    0.02            TRAP      11     1.0
KK273090 COMBINE
HC     2
KK273100    FROM  273090
RK   500  0.0017   0.013            CIRC     4.0
KK273110    FROM  273100
RK   779  0.0056   0.013            CIRC     4.0
KK273110   BASIN
BA 0.006
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   112  0.0019    0.03            TRAP      11     1.0
RK   779  0.0062    0.02            TRAP      26     1.0
KK273110 COMBINE
HC     2
KK273120    FROM  273110
RK   500  0.0056   0.013            CIRC     4.0
KK273120   BASIN
BA 0.038
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  1217  0.0062    0.03            TRAP      19     1.0
RK   850  0.0019    0.02            TRAP      19     1.0
KK273120 COMBINE
HC     2
KK271780    FROM  273120
RK   540  0.0017   0.013            CIRC     4.0
KK271780 COMBINE
HC     2
KK271790    FROM  271780
RK  1299  0.0062   0.025            TRAP    20.0     2.0
KK271790   BASIN
BA 0.007
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   762  0.0019    0.02            TRAP      23     1.0
RK  1299  0.0062    0.03            TRAP      26     1.0
KK271790 COMBINE
HC     2
KK271800    FROM  271790
RK   500  0.0056   0.015            DEEP     8.0
KK271810    FROM  271800
RK  1189  0.0062   0.027            TRAP    20.0     2.0
KK271810   BASIN
BA 0.048
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   597  0.0019    0.03            TRAP      19     1.0
RK  2773  0.0062    0.03            TRAP      26     1.0
KK271810 COMBINE
HC     2
```

```
KK271820    FROM  271810
RK   500  0.0056   0.015            DEEP    10.0
KK271830    FROM  271820
RK   500  0.0062   0.025            TRAP    40.0     2.0
KK271830   BASIN
BA 0.057
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   563  0.0019    0.02            TRAP      23     1.0
RK  2865  0.0062    0.02            TRAP      26     1.0
KK271830 COMBINE
HC     2
KK273310   BASIN
BA 0.019
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   439  0.0062    0.02            TRAP      19     1.0
RK  1223  0.0019    0.02            TRAP      23     1.0
KK273310 STORAGE
RS     1    STOR
SV  0.00    1.19    1.80    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   2.0      50     3.0     1.5
KK271830    FROM  273310
RK   500  0.0019   0.025            TRAP     5.0     1.0
KK271830 COMBINE
HC     2
KK270390    FROM  271830
RK  1953  0.0019   0.025            TRAP    20.0     2.0
KK270390 COMBINE
HC     2
KK270400    FROM  270390
RK   500  0.0062   0.018            TRAP    20.0     2.0
KK270400   BASIN
BA 0.012
LS     0      77       0       0      98       0
UK   200  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK  1305  0.0019    0.03            TRAP      15     1.0
RK   284  0.0062    0.03            TRAP      26     1.0
KK270400 COMBINE
HC     2
KK270410    FROM  270400
RK   500  0.0056   0.013            CIRC     5.0
KK270420    FROM  270410
RK   500  0.0062   0.027            TRAP    20.0     2.0
KK270420   BASIN
BA 0.004
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   200  0.0062    0.03            TRAP      26     1.0
KK270420 COMBINE
HC     2
KK270430    FROM  270420
RK   500  0.0056   0.015            DEEP    10.0
KK270440    FROM  270430
```

```
RK   500  0.0062   0.027            TRAP    20.0     2.0
KK270440   BASIN
BA 0.015
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   465  0.0062    0.03            TRAP      26     1.0
RK   465  0.0019    0.03            TRAP      26     1.0
KK270440 COMBINE
HC     2
KK273410   BASIN
BA 0.026
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   498  0.0019    0.02            TRAP      26     1.0
RK  1120  0.0062    0.02            TRAP      23     1.0
KK273420    FROM  273410
RK  2180  0.0062   0.027            TRAP    10.0     1.0
KK273420   BASIN
BA 0.072
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1729  0.0019    0.03            TRAP      23     1.0
RK  2180  0.0062    0.03            TRAP      23     1.0
KK273420 COMBINE
HC     2
KK273510   BASIN
BA 0.045
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   620  0.0019    0.02            TRAP      26     1.0
RK  2674  0.0062    0.02            TRAP      26     1.0
KK273420    FROM  273510
RK  1729  0.0062   0.027            TRAP    10.0     1.0
KK273420 COMBINE
HC     2
KK273430    FROM  273420
RK   500  0.0056   0.013            CIRC     1.5
KK270440    FROM  273430
RK   500  0.0062   0.027            TRAP    10.0     1.0
KK270440 COMBINE
HC     2
KK270450    FROM  270440
RK   500  0.0062   0.027            TRAP    20.0     2.0
KK270450   BASIN
BA 0.007
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   395  0.0019    0.03            TRAP      15     1.0
RK   379  0.0062    0.03            TRAP      26     1.0
KK270450 COMBINE
HC     2
KK270460    FROM  270450
RK   500  0.0056   0.015            DEEP    10.0
KK270470    FROM  270460
RK  2878  0.0062   0.025            TRAP    50.0     2.0
```

```
KK270470   BASIN
BA 0.144
LS     0      77       0       0      98       0
UK   200  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK   857  0.0019    0.02            TRAP      26     1.0
RK  2878  0.0062    0.03            TRAP      26     1.0
KK270470 COMBINE
HC     2
KK273610   BASIN
BA 0.016
LS     0      77       0       0      98       0
UK   200  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK   422  0.0019    0.02            TRAP      30     1.0
RK  2179  0.0062    0.02            TRAP      30     1.0
KK270470    FROM  273610
RK  2093  0.0062   0.027            TRAP    10.0     2.0
KK270470 COMBINE
HC     2
KK270480    FROM  270470
RK   500  0.0056   0.015            DEEP    10.0
KK270480   BASIN
BA 0.037
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   750  0.0019    0.03            TRAP      15     1.0
RK  3716  0.0062    0.02            TRAP      26     1.0
KK270480 COMBINE
HC     2
KK273710   BASIN
BA 0.132
LS     0      77       0       0      98       0
UK   200  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK  1970  0.0062    0.02            TRAP      23     1.0
RK  2472  0.0019    0.02            TRAP      34     1.0
KK270480    FROM  273710
RK  3716  0.0062   0.017            TRAP    78.8       1
KK270480 COMBINE
HC     2
KK270490    FROM  270480
RK   941  0.0062   0.027            TRAP    50.0     2.0
KK270490   BASIN
BA 0.023
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   645  0.0019    0.02            TRAP      26     1.0
RK  2284  0.0062    0.03            TRAP      30     1.0
KK270490 COMBINE
HC     2
KK270500    FROM  270490
RK   500  0.0056   0.015            DEEP    10.0
KK270500   BASIN
BA 0.010
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
```

```
RK   302  0.0019    0.02            TRAP      23     1.0
RK  2335  0.0062    0.02            TRAP      30     1.0
KK270500 COMBINE
HC     2
KK270510    FROM  270500
RK   815  0.0062   0.025            TRAP    50.0     2.0
KK270510   BASIN
BA 0.035
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1163  0.0062    0.03            TRAP      26     1.0
RK   815  0.0019    0.03            TRAP      26     1.0
KK270510 COMBINE
HC     2
KK273810   BASIN
BA 0.055
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  1287  0.0062    0.02            TRAP      26     1.0
RK  2029  0.0019    0.02            TRAP      38     1.0
KK273810 STORAGE
RS     1    STOR
SV  0.00    0.74    1.98    4.17    5.20    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    4.00    6.00    7.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00
ST   6.0     200     3.0     1.5
KK273820    FROM  273810
RK   956  0.0062   0.027            TRAP    10.0     2.0
KK273820   BASIN
BA 0.022
LS     0      77       0       0      98       0
UK   200  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK   509  0.0019    0.03            TRAP      15     1.0
RK   956  0.0062    0.03            TRAP      26     1.0
KK273820 COMBINE
HC     2
KK273820 STORAGE
RS     1    STOR
SV  0.00    5.59    7.50    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   2.0     150     3.0     1.5
KK273830    FROM  273820
RK  2654  0.0062   0.017            TRAP    30.0       1
KK273830   BASIN
BA 0.132
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1164  0.0019    0.02            TRAP      26     1.0
RK  4209  0.0062    0.02            TRAP      26     1.0
KK273830 COMBINE
HC     2
KK273830 STORAGE
RS     1    STOR
SV  0.00    1.09    2.43    3.25    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    4.00    5.00    0.00    0.00    0.00    0.00    0.00    0.00
```

```
SQ  0.00    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00
ST   4.0      50     3.0     1.5
KK273840    FROM  273830
RK  2073  0.0062   0.017            TRAP    37.5       1
KK273840   BASIN
BA 0.110
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1256  0.0019    0.02            TRAP      26     1.0
RK  2073  0.0062    0.02            TRAP      26     1.0
KK273840 COMBINE
HC     2
KK273850    FROM  273840
RK   500  0.0045   0.013            CIRC     3.5
KK273860    FROM  273850
RK   546  0.0045   0.013            CIRC     3.5
KK273860   BASIN
BA 0.021
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  1001  0.0019    0.02            TRAP      26     1.0
RK   546  0.0062    0.02            TRAP      30     1.0
KK273860 COMBINE
HC     2
KK273870    FROM  273860
RK   551  0.0045   0.013            CIRC     3.5
KK273870   BASIN
BA 0.011
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   596  0.0019    0.03            TRAP      19     1.0
RK   551  0.0062    0.02            TRAP      30     1.0
KK273870 COMBINE
HC     2
KK273880    FROM  273870
RK   500  0.0015   0.013            CIRC     4.0
KK273880   BASIN
BA 0.023
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   642  0.0062    0.03            TRAP      19     1.0
RK  1288  0.0019    0.02            TRAP      26     1.0
KK273880 COMBINE
HC     2
KK273890    FROM  273880
RK   500  0.0015   0.013            CIRC     4.0
KK273900    FROM  273890
RK   797  0.0015   0.013            CIRC     4.0
KK273900   BASIN
BA 0.090
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1144  0.0019    0.02            TRAP      19     1.0
RK  2973  0.0062    0.03            TRAP      26     1.0
KK273900 COMBINE
```

```
HC      2
KK274110   BASIN
BA 0.109
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1091  0.0019    0.03            TRAP      19     1.0
RK   3390  0.0062    0.03            TRAP      26     1.0
KK274110 STORAGE
RS      1    STOR
SV   0.00    2.10    4.64    5.75    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    2.00    4.00    5.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00
ST    4.0      20     3.0     1.5
KK273900    FROM  274110
RK   2973  0.0070   0.030            TRAP    10.0     2.0
KK273900 COMBINE
HC      2
KK273910    FROM  273900
RK    500  0.0056   0.015            DEEP     6.0
KK273920    FROM  273910
RK   3531  0.0056   0.030            TRAP    10.0     2.0
KK273920   BASIN
BA 0.153
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1261  0.0019    0.02            TRAP      23     1.0
RK   3531  0.0062    0.03            TRAP      26     1.0
KK273920 COMBINE
HC      2
KK273930    FROM  273920
RK    500  0.0056   0.015            DEEP    10.0
KK273930   BASIN
BA 0.012
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    606  0.0062    0.03            TRAP      15     1.0
RK    857  0.0019    0.02            TRAP      26     1.0
KK273930 COMBINE
HC      2
KK274210   BASIN
BA 0.007
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    986  0.0062    0.02            TRAP      15     1.0
KK274210 STORAGE
RS      1    STOR
SV   0.00    1.22    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    2.0      50     3.0     1.5
KK273930    FROM  274210
RK    857  0.0019   0.017            TRAP    26.3       1
KK273930 COMBINE
HC      2
KK273940    FROM  273930
RK   1358  0.0076   0.030            TRAP    10.0     2.0
```

```
KK273940   BASIN
BA 0.079
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  2623  0.0062    0.02            TRAP      26     1.0
RK  1192  0.0019    0.02            TRAP      30     1.0
KK273940 COMBINE
HC     2
KK274310   BASIN
BA 0.045
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   258  0.0019    0.02            TRAP      15     1.0
RK  1493  0.0062    0.02            TRAP      15     1.0
KK274320    FROM  274310
RK   500  0.0056   0.013            CIRC     2.0
KK274330    FROM  274320
RK   803  0.0062   0.030            TRAP    10.0     2.0
KK274330   BASIN
BA 0.004
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   803  0.0062    0.02            TRAP      23     1.0
KK274330 COMBINE
HC     2
KK273940    FROM  274330
RK   500  0.0017   0.013            CIRC     1.5
KK273940 COMBINE
HC     2
KK273950    FROM  273940
RK   500  0.0056   0.015            DEEP    10.0
KK273960    FROM  273950
RK  2440  0.0079   0.030            TRAP    10.0     2.0
KK273960   BASIN
BA 0.110
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1526  0.0019    0.03            TRAP      26     1.0
RK  2440  0.0062    0.03            TRAP      26     1.0
KK273960 COMBINE
HC     2
KK274410   BASIN
BA 0.013
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   218  0.0019    0.02            TRAP      30     1.0
RK  2443  0.0062    0.02            TRAP      26     1.0
KK273960    FROM  274410
RK  1526  0.0062   0.030            TRAP    10.0     2.0
KK273960 COMBINE
HC     2
KK273970    FROM  273960
RK   500  0.0056   0.015            DEEP    10.0
KK270510    FROM  273970
RK  1163  0.0062   0.030            TRAP    10.0     2.0
```

```
KK270510 COMBINE
HC     2
KK270520    FROM  270510
RK   500  0.0056   0.015            DEEP    10.0
KK270520   BASIN
BA 0.006
LS     0      69       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK  1238  0.0062    0.02            TRAP      26     1.0
KK270520 COMBINE
HC     2
KK274510   BASIN
BA 0.013
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  2556  0.0062    0.02            TRAP      23     1.0
KK274520    FROM  274510
RK   500  0.0056   0.013            CIRC     2.0
KK270520    FROM  274520
RK  1238  0.0062   0.025            TRAP    70.0     2.0
KK270520 COMBINE
HC     2
KK270530    FROM  270520
RK  1830  0.0062   0.027            TRAP   100.0     2.0
KK270530   BASIN
BA 0.090
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1482  0.0062    0.03            TRAP      26     1.0
RK  1830  0.0019    0.03            TRAP      26     1.0
KK270530 COMBINE
HC     2
KK274610   BASIN
BA 0.054
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  2717  0.0062    0.03            TRAP      19     1.0
RK   894  0.0019    0.03            TRAP      19     1.0
KK274620    FROM  274610
RK  1199  0.0019   0.017            TRAP    78.8       1
KK274620   BASIN
BA 0.038
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  3366  0.0062    0.02            TRAP      26     1.0
RK  1199  0.0019    0.02            TRAP      38     1.0
KK274620 COMBINE
HC     2
KK270530    FROM  274620
RK  1306  0.0062   0.025            TRAP    30.0     2.0
KK270530 COMBINE
HC     2
KK274710   BASIN
BA 0.066
LS     0      77       0       0      98       0
```

```
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  3950  0.0062    0.02            TRAP     26     1.0
RK   542  0.0019    0.02            TRAP     15     1.0
KK274720    FROM  274710
RK  1996  0.0019   0.017            TRAP   37.5      1
KK274720   BASIN
BA 0.096
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  2763  0.0062    0.02            TRAP     23     1.0
RK  1996  0.0019    0.02            TRAP     26     1.0
KK274720 COMBINE
HC     2
KK274730    FROM  274720
RK   923  0.0062   0.017            TRAP   37.5      1
KK274730   BASIN
BA 0.032
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  2580  0.0019    0.02            TRAP     26     1.0
RK   923  0.0062    0.02            TRAP     26     1.0
KK274730 COMBINE
HC     2
KK274740    FROM  274730
RK  1713  0.0062   0.017            TRAP   37.5      1
KK274740   BASIN
BA 0.044
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   559  0.0019    0.02            TRAP     23     1.0
RK  1713  0.0062    0.02            TRAP     26     1.0
KK274740 COMBINE
HC     2
KK274750    FROM  274740
RK   500  0.0033   0.013            CIRC    2.0
KK274750   BASIN
BA 0.090
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  2557  0.0062    0.02            TRAP     26     1.0
RK  1556  0.0019    0.02            TRAP     26     1.0
KK274750 COMBINE
HC     2
KK274760    FROM  274750
RK  2372  0.0062   0.027            TRAP   10.0     2.0
KK274760   BASIN
BA 0.053
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   528  0.0019    0.02            TRAP     23     1.0
RK  2372  0.0062    0.03            TRAP     23     1.0
KK274760 COMBINE
HC     2
KK274770    FROM  274760
```

```
RK   500  0.0056   0.013            CIRC     2.0
KK274780    FROM  274770
RK   532  0.0062   0.025            TRAP    15.0     1.0
KK274780   BASIN
BA 0.043
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      15
UK    50  0.0100    0.10      85
RK  1189  0.0062    0.02            TRAP      23     1.0
RK  1331  0.0019    0.02            TRAP      26     1.0
KK274780 COMBINE
HC     2
KK274910   BASIN
BA 0.148
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  2523  0.0062    0.02            TRAP      23     1.0
RK  2164  0.0019    0.02            TRAP      26     1.0
KK274780    FROM  274910
RK  1331  0.0019   0.017            TRAP    78.8       1
KK274780 COMBINE
HC     2
KK274790    FROM  274780
RK   500  0.0056   0.015            DEEP    10.0
KK274800    FROM  274790
RK   500  0.0062   0.025            TRAP    20.0     2.0
KK274800   BASIN
BA 0.020
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  1206  0.0019    0.02            TRAP      23     1.0
RK   382  0.0062    0.03            TRAP      26     1.0
KK274800 COMBINE
HC     2
KK274810    FROM  274800
RK   500  0.0056   0.015            DEEP    10.0
KK274820    FROM  274810
RK  2467  0.0062   0.025            TRAP    20.0     2.0
KK274820   BASIN
BA 0.144
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1608  0.0062    0.03            TRAP      19     1.0
RK  2467  0.0019    0.03            TRAP      26     1.0
KK274820 COMBINE
HC     2
KK275010   BASIN
BA 0.019
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   593  0.0062    0.02            TRAP      15     1.0
RK   803  0.0019    0.02            TRAP      19     1.0
KK275010 STORAGE
RS     1    STOR
SV  0.00    0.65    1.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
```

```
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   2.0      20     3.0     1.5
KK275020    FROM  275010
RK   500  0.0019   0.025            TRAP    20.0     2.0
KK275020   BASIN
BA 0.140
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   864  0.0019    0.02            TRAP      23     1.0
RK  4898  0.0062    0.03            TRAP      19     1.0
KK275020 COMBINE
HC     2
KK275020 STORAGE
RS     1    STOR
SV  0.00    3.37    4.50    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   2.0      20     3.0     1.5
KK275030    FROM  275020
RK   602  0.0019   0.025            TRAP    20.0     2.0
KK275030   BASIN
BA 0.004
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   602  0.0062    0.03            TRAP      23     1.0
KK275030 COMBINE
HC     2
KK275040    FROM  275030
RK   500  0.0056   0.013            CIRC     1.5
KK275050    FROM  275040
RK  1057  0.0062   0.025            TRAP    20.0     2.0
KK275050   BASIN
BA 0.028
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   656  0.0019    0.02            TRAP      23     1.0
RK  1150  0.0062    0.03            TRAP      26     1.0
KK275050 COMBINE
HC     2
KK275060    FROM  275050
RK   500  0.0056   0.015            DEEP    10.0
KK275070    FROM  275060
RK   709  0.0062   0.025            TRAP    30.0     2.0
KK275070   BASIN
BA 0.007
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  1086  0.0062    0.03            TRAP      23     1.0
KK275070 COMBINE
HC     2
KK275080    FROM  275070
RK   500  0.0056   0.015            DEEP    10.0
KK274820    FROM  275080
RK  1715  0.0062   0.025            TRAP    30.0     2.0
KK274820 COMBINE
HC     2
```

```
KK274830    FROM  274820
RK  1816  0.0062   0.025            TRAP    20.0     2.0
KK274830   BASIN
BA 0.099
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1082  0.0019    0.03            TRAP      19     1.0
RK  1816  0.0062    0.03            TRAP      26     1.0
KK274830 COMBINE
HC     2
KK274840    FROM  274830
RK   500  0.0056   0.015            DEEP    10.0
KK270530    FROM  274840
RK  1482  0.0062   0.025            TRAP    30.0     2.0
KK270530 COMBINE
HC     2
KK270540    FROM  270530
RK   677  0.0062   0.027            TRAP   100.0     2.0
KK270540   BASIN
BA 0.097
LS     0      69       0       0      98       0
UK   200  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK  4444  0.0062    0.02            TRAP      26     1.0
RK   677  0.0019    0.03            TRAP      26     1.0
KK270540 COMBINE
HC     2
KK270550    FROM  270540
RK   500  0.0056   0.015            DEEP    10.0
KK270550   BASIN
BA 0.058
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   288  0.0056    0.01            DEEP      10     0.0
KK270550 COMBINE
HC     2
KK270560    FROM  270550
RK  1581  0.0062   0.027            TRAP   100.0     2.0
KK270560   BASIN
BA 0.066
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  1479  0.0062    0.02            TRAP      26     1.0
RK  1581  0.0019    0.03            TRAP      26     1.0
KK270560 COMBINE
HC     2
KK275210   BASIN
BA 0.100
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   721  0.0019    0.02            TRAP      26     1.0
RK  2967  0.0062    0.03            TRAP      23     1.0
KK275220    FROM  275210
RK   500  0.0056   0.015            DEEP    10.0
KK275230    FROM  275220
RK  1266  0.0062   0.027            TRAP    10.0     2.0
```

```
KK275230   BASIN
BA 0.068
LS      0      72       0       0      98       0
UK    199  0.0100    0.27      58
UK     66  0.0100    0.10      42
RK   1219  0.0019    0.02            TRAP      30     1.0
RK   2236  0.0062    0.02            TRAP      26     1.0
KK275230 COMBINE
HC      2
KK275240    FROM  275230
RK    500  0.0056   0.015            DEEP    10.0
KK275250    FROM  275240
RK   1196  0.0062   0.027            TRAP    20.0     2.0
KK275250   BASIN
BA 0.072
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1943  0.0019    0.02            TRAP      26     1.0
RK   1196  0.0062    0.03            TRAP      23     1.0
KK275250 COMBINE
HC      2
KK275260    FROM  275250
RK    500  0.0056   0.015            DEEP    10.0
KK275270    FROM  275260
RK   1060  0.0062   0.025            TRAP    20.0     2.0
KK275270   BASIN
BA 0.040
LS      0      69       0       0      98       0
UK     20  0.0100    0.40       6
UK    200  0.0100    0.10      94
RK   1231  0.0019    0.03            TRAP      23     1.0
RK   1060  0.0062    0.03            TRAP      26     1.0
KK275270 COMBINE
HC      2
KK275280    FROM  275270
RK    500  0.0056   0.015            DEEP    10.0
KK275290    FROM  275280
RK    504  0.0062   0.025            TRAP    20.0     2.0
KK275290   BASIN
BA 0.068
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   2145  0.0019    0.02            TRAP      23     1.0
RK    504  0.0062    0.03            TRAP      26     1.0
KK275290 COMBINE
HC      2
KK275300    FROM  275290
RK    500  0.0056   0.015            DEEP    10.0
KK275310    FROM  275300
RK   1169  0.0062   0.025            TRAP    20.0     2.0
KK275310   BASIN
BA 0.069
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1779  0.0019    0.02            TRAP      23     1.0
RK   1169  0.0062    0.03            TRAP      26     1.0
KK275310 COMBINE
```

```
HC      2
KK275320     FROM  275310
RK    500  0.0056   0.015            DEEP    10.0
KK275330     FROM  275320
RK    500  0.0062   0.025            TRAP    20.0     2.0
KK275330    BASIN
BA 0.003
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    414  0.0019    0.03            TRAP      15     1.0
RK    352  0.0062    0.03            TRAP      26     1.0
KK275330 COMBINE
HC      2
KK275340     FROM  275330
RK    500  0.0056   0.015            DEEP    10.0
KK270560     FROM  275340
RK    894  0.0062   0.025            TRAP    20.0     2.0
KK270560 COMBINE
HC      2
KK270570     FROM  270560
RK    500  0.0056   0.015            DEEP    10.0
*
KK R301
KM ROUTE KK270570 TO CP311
RS      1              -1
RC 0.030   0.030   0.030    800  0.005
RX  8339    9321    9984   9989   9990  10059  10480  10820
RY  1303    1297    1292   1288   1288   1296   1297   1302
*
* 27-5440
*
KK275410    BASIN
BA 0.022
LS      0      70       0       0      98       0
UK    163  0.0100    0.29      44
UK     54  0.0100    0.10      56
RK   6734  0.0062    0.02            TRAP      26     1.0
KK275420     FROM  275410
RK    500  0.0056   0.013            CIRC     2.0
KK275430     FROM  275420
RK   1437  0.0062   0.025            TRAP    10.0     1.0
KK275430    BASIN
BA 0.036
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   1000  0.0062    0.02            TRAP      26     1.0
KK275430 COMBINE
HC      2
KK275440     FROM  275430
RK    500  0.0062   0.025            TRAP    10.0     1.0
*
KK CP311
KM COMBINE FLOWS FROM R301 AND SUBBASIN 27-5440
HC      2
*
KK R311
KM ROUTE CP311 TO CP321
RS      1              -1
```

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```
RC 0.030   0.030   0.030    1500   0.005
RX  8339    9321    9984    9989    9990   10059   10480   10820
RY  1303    1297    1292    1288    1288    1296    1297    1302
*
* 22-430
*
KK220410   BASIN
BA 0.069
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   585  0.0015    0.02            TRAP      15     1.0
RK  1930  0.0042    0.02            TRAP      19     1.0
KK220420    FROM  220410
RK  1186  0.0042   0.035            TRAP     4.0     2.0
KK220420   BASIN
BA 0.199
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  5757  0.0042    0.02            TRAP      23     1.0
KK220420 COMBINE
HC     2
KK220430    FROM  220420
RK   500  0.0015   0.035            TRAP    20.0     1.0
*
KK CP321
KM COMBINE FLOWS FROM R311 AND SUBBASIN 22-430
HC     2
*
KK R321
KM ROUTE CP321 TO CP331
RS     1              -1
RC 0.030   0.030   0.030    1800   0.005
RX  8339    9321    9984    9989    9990   10059   10480   10820
RY  1303    1297    1292    1288    1288    1296    1297    1302
*
* 22-520
*
KK220510   BASIN
BA 0.109
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      15
UK    50  0.0100    0.10      85
RK  2114  0.0015    0.02            TRAP      19     1.0
RK  1304  0.0042    0.02            TRAP      23     1.0
KK220520    FROM  220510
RK   500  0.0014   0.015            DEEP     8.0
*
KK CP331
KM COMBINE FLOWS FROM R321 AND SUBBASIN 22-520
HC     2
*
KK R331
KM ROUTE CP331 TO CP341
RS     1              -1
RC 0.030   0.030   0.030     600   0.005
RX  8339    9321    9984    9989    9990   10059   10480   10820
RY  1303    1297    1292    1288    1288    1296    1297    1302
*
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```
* 27-5560
*
KK275510   BASIN
BA 0.037
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1165  0.0019    0.02            TRAP      30     1.0
KK275510 STORAGE
RS      1    STOR
SV   0.00    0.67    1.50    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    2.0      50     3.0     1.5
KK275520    FROM  275510
RK   1717  0.0062   0.017            TRAP    30.0       1
KK275520   BASIN
BA 0.036
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    644  0.0019    0.02            TRAP      23     1.0
RK   1717  0.0062    0.02            TRAP      23     1.0
KK275520 COMBINE
HC      2
KK275530    FROM  275520
RK   3068  0.0062   0.017            TRAP    45.0       1
KK275530   BASIN
BA 0.138
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    929  0.0019    0.02            TRAP      26     1.0
RK   3068  0.0062    0.02            TRAP      26     1.0
KK275530 COMBINE
HC      2
KK275540    FROM  275530
RK   2462  0.0062   0.017            TRAP    45.0       1
KK275540   BASIN
BA 0.115
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   6749  0.0062    0.02            TRAP      26     1.0
RK   1920  0.0019    0.02            TRAP      30     1.0
KK275540 COMBINE
HC      2
KK275550    FROM  275540
RK   2092  0.0062   0.017            TRAP    26.3       1
KK275550   BASIN
BA 0.018
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   2092  0.0062    0.02            TRAP      26     1.0
KK275550 COMBINE
HC      2
KK275560    FROM  275550
RK    500  0.0062   0.025            TRAP    10.0     1.0
*
```

```
KK CP341
KM COMBINE FLOWS FROM R331 AND SUBBASIN 27-5560
HC     2
*
KK R341
KM ROUTE CP341 TO CP351
RS     1              -1
RC 0.030   0.030   0.030    1000   0.004
RX  8339    9321    9984    9989    9990   10059   10480   10820
RY  1303    1297    1292    1288    1288    1296    1297    1302
*
* 27-5620
*
KK275610   BASIN
BA 0.047
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  1886  0.0062    0.02            TRAP      26     1.0
RK   836  0.0019    0.02            TRAP      26     1.0
KK275620    FROM  275610
RK   500  0.0062   0.025            TRAP    10.0     1.0
*
KK CP351
KM COMBINE FLOWS FROM R341 AND SUBBASIN 27-5260
HC     2
*
KK R351
KM ROUTE CP351 TO CP361                                  golf course
RS     1              -1
RC 0.030   0.030   0.030    1700   0.004
RX  8339    9321    9984    9989    9990   10059   10480   10820
RY  1303    1297    1292    1288    1288    1296    1297    1302
*
* 23-40
*
KK230010   BASIN
BA 0.024
PH  0.00    0.00    0.73    1.44    2.44    2.72    2.90    3.25
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      15
UK    50  0.0100    0.10      85
RK  1482  0.0048    0.02            TRAP      23     1.0
KK230020    FROM  230010
RK   542  0.0036   0.013            CIRC     2.5
KK230030    FROM  230020
RK   742  0.0064   0.013            CIRC     3.0
KK230040    FROM  230030
RK   500  0.0043   0.013            CIRC     3.0
*
* 23-130
*
KK230110   BASIN
BA 0.025
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  1605  0.0060    0.02            TRAP      23     1.0
KK230120    FROM  230110
RK   994  0.0060   0.017            TRAP    33.8       1
```

```
KK230120   BASIN
BA 0.009
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   3202  0.0060    0.02            TRAP      45     1.0
KK230120 COMBINE
HC      2
KK230210   BASIN
BA 0.012
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    396  0.0060    0.02            TRAP      23     1.0
RK    868  0.0048    0.02            TRAP      23     1.0
KK230120    FROM  230210
RK    841  0.0060   0.017            TRAP    33.8       1
KK230120 COMBINE
HC      2
KK230130    FROM  230120
RK    500  0.0043   0.013            CIRC     2.5
*
* 23-320
*
KK230310   BASIN
BA 0.017
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   1687  0.0048    0.02            TRAP      23     1.0
KK230320    FROM  230310
RK    500  0.0043   0.013            CIRC     1.5
*
* 23-420
*
KK230410   BASIN
BA 0.077
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   2638  0.0048    0.02            TRAP      23     1.0
KK230420    FROM  230410
RK    500  0.0043   0.013            CIRC     1.5
*
* 22-620
*
KK220610   BASIN
BA 0.066
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   2713  0.0015    0.02            TRAP      23     1.0
KK220620    FROM  220610
RK    500  0.0015   0.018            TRAP     4.0     2.0
*
KK CP361
KM COMBINE R351 AND SUBBASINS 23-40,130,320,420 AND 22-620
HC      6
*
KK R361
```

```
KM ROUTE CP361 TO CP501
RS     1              -1
RC 0.030   0.030   0.030   2500   0.004
RX  8339    9321    9984    9989    9990   10059   10480   10820
RY  1303    1297    1292    1288    1288    1296    1297    1302
*
KK 960
KM RUNOFF FROM SUBBASIN 960
BA 0.712
LS   0.0    70.0
UC  0.27   0.145
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
KK CP501
KM COMBINE FLOWS R451 AND R361
HC     3
*
KK R501
KM ROUTE CP501 TO CP511
RS     1              -1
RC 0.030   0.030   0.030    1800   0.005
RX  8339    9321    9984    9989    9990   10059   10480   10820
RY  1303    1297    1292    1288    1288    1296    1297    1302
*   ***************************************************
*   ***************************************************
*
* 20-450
*
KK200310   BASIN
BA 0.149
PH  0.00    0.00    0.63    1.24    2.17    2.38    2.50    2.75    3.01    3.27
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK   656  0.0006    0.02            TRAP      49     1.0
RK  2726  0.0091    0.03            TRAP      49     1.0
KK200320    FROM  200310
RK   327  0.0071   0.013            DEEP     8.0
KK200330    FROM  200320
RK   767  0.0079   0.027            TRAP    20.0     1.0
KK200330   BASIN
BA 0.021
LS     0      69       0       0      98       0
UK   296  0.0100    0.20      21
UK    99  0.0100    0.10      79
RK   665  0.0006    0.02            TRAP      49     1.0
RK   890  0.0079    0.03            TRAP      49     1.0
KK200330 COMBINE
HC     2
KK200430    FROM  200330
RK   190  0.0023   0.013            DEEP     8.0
KK200410   BASIN
BA 0.355
LS     0      81       0       0      98       0
UK   232  0.0100    0.25      59
UK    77  0.0100    0.10      41
RK  2044  0.0091    0.03            TRAP      49     1.0
RK  6898  0.0091    0.03            TRAP      49     1.0
KK200420    FROM  200410
```

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```
RK   338  0.0071   0.013            CIRC     4.0
KK200430    FROM  200420
RK   759  0.0079   0.027            TRAP    20.0     1.0
KK200430 COMBINE
HC     2
KK200440    FROM  200430
RK  1532  0.0079   0.027            TRAP    20.0     1.0
KK200440   BASIN
BA 0.078
LS     0      69       0       0      98       0
UK   155  0.0100    0.30      16
UK    52  0.0100    0.10      84
RK   776  0.0006    0.02            TRAP      49     1.0
RK  2291  0.0079    0.03            TRAP      49     1.0
KK200440 COMBINE
HC     2
KK200450    FROM  200440
RK   397  0.0079   0.027            TRAP    20.0     1.0
*
*
* 22-140
*
KK220010   BASIN
BA 0.028
PH  0.00    0.00    0.73    1.44    2.44    2.72    2.90    3.25
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  5701  0.0042    0.03            TRAP      19     1.0
KK220020    FROM  220010
RK   500  0.0036   0.013            CIRC     1.5
KK220030    FROM  220020
RK  3168  0.0042   0.035            TRAP     2.0     1.0
KK220030   BASIN
BA 0.020
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  3168  0.0042    0.03            TRAP      19     1.0
KK220030 COMBINE
HC     2
KK220040    FROM  220030
RK   500  0.0036   0.013            CIRC     1.5
KK220050    FROM  220040
RK  3465  0.0015   0.035            TRAP     2.0     2.0
KK220050   BASIN
BA 0.230
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  6469  0.0042    0.02            TRAP      26     1.0
RK  1493  0.0015    0.03            TRAP      23     1.0
KK220050 COMBINE
HC     2
KK220060    FROM  220050
RK   500  0.0014   0.013            CIRC     1.5
KK220070    FROM  220060
RK   707  0.0015   0.035            TRAP     2.0     2.0
KK220070   BASIN
BA 0.134
```

```
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   4514  0.0042    0.02            TRAP      26     1.0
RK    707  0.0015    0.03            TRAP      23     1.0
KK220070 COMBINE
HC      2
KK220080    FROM  220070
RK   1632  0.0015   0.035            TRAP     3.0     2.0
KK220080   BASIN
BA 0.126
LS      0      69       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   3990  0.0042    0.02            TRAP      26     1.0
RK   1632  0.0015    0.03            TRAP      26     1.0
KK220080 COMBINE
HC      2
KK220210   BASIN
BA 0.017
LS      0      69       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   1048  0.0042    0.03            TRAP      19     1.0
KK220220    FROM  220210
RK    500  0.0036   0.013            CIRC     1.5
KK220230    FROM  220220
RK   2764  0.0042   0.035            TRAP     3.0     1.0
KK220230   BASIN
BA 0.131
LS      0      69       0       0      98       0
UK    300  0.0100    0.20      20
UK    100  0.0100    0.10      80
RK   1650  0.0015    0.03            TRAP      23     1.0
RK   2764  0.0042    0.03            TRAP      26     1.0
KK220230 COMBINE
HC      2
KK220240    FROM  220230
RK    500  0.0036   0.013            CIRC     1.5
KK220250    FROM  220240
RK   2283  0.0042   0.035            TRAP     4.0     2.0
KK220250   BASIN
BA 0.038
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    338  0.0015    0.03            TRAP      19     1.0
RK   2283  0.0042    0.03            TRAP      23     1.0
KK220250 COMBINE
HC      2
KK220260    FROM  220250
RK    500  0.0036   0.013            CIRC     1.5
KK220080    FROM  220260
RK    500  0.0042   0.035            TRAP     3.0     1.0
KK220080 COMBINE
HC      2
KK220090    FROM  220080
RK   1016  0.0015   0.035            TRAP     2.0     2.0
KK220090   BASIN
BA 0.019
```

```
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    527  0.0042    0.02            TRAP      26     1.0
RK   1016  0.0015    0.03            TRAP      23     1.0
KK220090 COMBINE
HC      2
KK220100    FROM  220090
RK    500  0.0131   0.013            CIRC     3.0
KK220310   BASIN
BA 0.070
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   1028  0.0015    0.02            TRAP      23     1.0
RK   3421  0.0042    0.02            TRAP      26     1.0
KK220320    FROM  220310
RK   1378  0.0020   0.013            CIRC     4.0
KK220320   BASIN
BA 0.034
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    745  0.0015    0.02            TRAP      26     1.0
RK   1378  0.0042    0.02            TRAP      30     1.0
KK220320 COMBINE
HC      2
KK220330    FROM  220320
RK    500  0.0029   0.013            CIRC     5.0
KK220330   BASIN
BA 0.012
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   1682  0.0042    0.02            TRAP      26     1.0
KK220330 COMBINE
HC      2
KK220340    FROM  220330
RK    500  0.0023   0.013            CIRC     5.5
KK220340   BASIN
BA 0.022
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    343  0.0015    0.02            TRAP      23     1.0
RK   1525  0.0042    0.03            TRAP      30     1.0
KK220340 COMBINE
HC      2
KK220350    FROM  220340
RK    500  0.0046   0.013            CIRC     5.5
KK220350   BASIN
BA 0.004
LS      0      69       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    343  0.0015    0.02            TRAP      23     1.0
RK    302  0.0042    0.02            TRAP      30     1.0
KK220350 COMBINE
HC      2
KK220100    FROM  220350
```

```
RK   500  0.0046   0.013            CIRC     5.5
KK220100 COMBINE
HC     2
KK220110    FROM  220100
RK   500  0.0029   0.013            CIRC     3.0
KK220110   BASIN
BA 0.001
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   229  0.0042    0.02            TRAP      30     1.0
KK220110 COMBINE
HC     2
KK220120    FROM  220110
RK   500  0.0049   0.013            CIRC     3.5
KK220120   BASIN
BA 0.002
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   277  0.0015    0.02            TRAP      30     1.0
KK220120 COMBINE
HC     2
KK220130    FROM  220120
RK   500  0.0049   0.013            CIRC     3.5
KK220130   BASIN
BA 0.044
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1876  0.0042    0.02            TRAP      30     1.0
KK220130 COMBINE
HC     2
KK220140    FROM  220130
RK   500  0.0049   0.013            CIRC     3.5
*
```

Routing Card ??

```
KK CP511
KM COMBINE FLOWS R501 AND SUBBASINS 22-140, 20-450
HC     3
*
KK R511
KM ROUTE CP511 TO CP521
RS     1              -1
RC 0.035   0.025   0.035    1200  0.0026
RX  9714    9730    9746    9840   10201   10272   10286   10301
RY  1283    1279    1275    1271    1271    1275    1279    1283
*     ***************************************************************
*     *                                                             *
*     *              SIMONS, LI AND ASSOCIATES, INC.                *
*     *                                                             *
*     *                    OUTER LOOP FREEWAY                       *
*     *               (NORTH OF THE ARIZONA CANAL)                  *
*     *                          PHASE 2                            *
*     *                                                             *
*     *          HYDROLOGY ANALYSIS FOR OFFSITE DRAINAGE            *
*     *                       100 YEAR EVENT                        *
*     *          24 HOUR HYPOTHETICAL STORM DISTRIBUTION            *
*     *                                                             *
*     *      USES % IMPERVIOUS COVER TO SIMULATE DEVELOPMENT        *
*     *          INCLUDES RETENTION/DETENTION BASINS FOR            *
```

```
*      *                RESIDENTIAL & COMMERCIAL AREAS                *
*      *                                                              *
*      *                                                              *
*      *          THIS MODEL INCLUDES THE ADDITIONAL AREA             *
*      *        PREVIOUSLY MODELED BY THE CORP OF ENGINEERS           *
*      *         N=.012 FOR THE HIGHWAY INTERCEPTOR CHANNEL           *
*      *      ALL CURVE NUMBERS ARE FOR 24-HOUR STORM DURATION        *
*      *      NORMAL DEPTH STORAGE ROUTING ALONG ARIZONA CANAL        *
*      *        INCLUDES CAP CROSS-DRAINAGE AT EAST BOUNDARY          *
*      *      USES APRIL 1989 HYDROLOGIC REVISIONS BY R. WARD         *
*      *              MARCH 1989 HIGHWAY ALIGNMENT                    *
*      *                                                              *
*      *                       MODEL 2FD6.24I                         *
*     ****************************************************************
*
KK  1270     SUB
KM      RUNOFF FROM SUB 1270
BA .0308
PH                    .62    1.22    2.14    2.34    2.46    2.71    2.97    3.21
LS            80
UK  1300   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100
KK  1280     SUB
KM      RUNOFF FROM SUB 1280 AND ROUTE SUB 1270
BA .0308
LS            80
UK  1300   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100     YES
KK  1350     SUB
KM      RUNOFF FROM SUB 1350 AND ROUTE SUB 1280
BA .0308
LS            80
UK  1300   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100     YES
KK  1360     SUB
KM      RUNOFF FROM SUB 1360 AND ROUTE SUB 1350
BA .0308
LS            80
UK  1300   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100     YES
KK  1440     SUB
KM      RUNOFF FROM SUB 1440 AND ROUTE SUB 1360
BA .0308
LS            80
UK  1300   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100     YES
KK  1450     SUB
KM      RUNOFF FROM SUB 1450 AND ROUTE SUB 1440
BA .0308
LS            80
UK  1300   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100     YES
KK  1520     SUB
KM      RUNOFF FROM SUB 1520 AND ROUTE SUB 1440
BA .0308
LS            80
UK  1300   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100     YES
KK  1530     SUB
KM      RUNOFF FROM SUB 1530 AND ROUTE SUB 1520
```

Include a drainage map from the Outer Loop Study

```
BA .0308
LS          80
UK  1300   .0028    .15     100
RK   660   .0029   .045           TRAP     10     100     YES
KK  1600     SUB
KM      RUNOFF FROM SUB 1600 AND ROUTE SUB 1530
BA .0616
LS          80
UK  1300   .0028    .15     100
RK  1320   .0029   .045           TRAP     10     100     YES
KK  1591     CP
KM      ROUTE SUB 1600 TO CP 1591
RK  1360   .0028   .045           TRAP     10     100
KK  1260     SUB
KM      RUNOFF FROM SUB 1260
BA .0320
LS          80
UK  1350   .0028    .15     100
RK   660   .0029   .045           TRAP     10     100
KK  1290     SUB
KM      RUNOFF FROM SUB 1290 AND ROUTE SUB 1260
BA .0320
LS          80
UK  1350   .0028    .15     100
RK   660   .0029   .045           TRAP     10     100     YES
KK  1340     SUB
KM      RUNOFF FROM SUB 1340 AND ROUTE SUB 1290
BA .0320
LS          80
UK  1350   .0028    .15     100
RK   660   .0029   .045           TRAP     10     100     YES
KK  1370     SUB
KM      RUNOFF FROM SUB 1370 AND ROUTE SUB 1340
BA .0320
LS          80
UK  1350   .0028    .15     100
RK   660   .0029   .045           TRAP     10     100     YES
KK  1430     SUB
KM      RUNOFF FROM SUB 1430 AND ROUTE SUB 1370
BA .0320
LS          80
UK  1350   .0028    .15     100
RK   660   .0029   .045           TRAP     10     100     YES
KK  1460     SUB
KM      RUNOFF FROM SUB 1460 AND ROUTE SUB 1430
BA .0320
LS          80
UK  1350   .0028    .15     100
RK   660   .0029   .045           TRAP     10     100     YES
KK  1510     SUB
KM      RUNOFF FROM SUB 1510 AND ROUTE SUB 1460
BA .0320
LS          80
UK  1350   .0028    .15     100
RK   660   .0029   .045           TRAP     10     100     YES
KK  1540     SUB
KM      RUNOFF FROM SUB 1540 AND ROUTE SUB 1510
BA .0320
LS          80
UK  1350   .0028    .15     100
```

```
RK   660   .0029    .045            TRAP      10     100     YES
KK  1590     SUB
KM      RUNOFF FROM SUB 1590 AND ROUTE SUB 1540
BA .0639
LS            80
UK  1350   .0028     .15     100
RK  1320   .0029    .045            TRAP      10     100     YES
KK  1592      CP
KM      COMBINE SUB 1590 WITH CP 1591
HC     2
KK  1581      CP
KM      ROUTE CP 1592 TO CP 1581
RK  1280  0.0028    .045            TRAP      10     100
KK  1250     SUB
KM      RUNOFF FROM SUB 1250
BA .0303
LS            80
UK  1280   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100
KK  1300     SUB
KM      RUNOFF FROM SUB 1300 AND ROUTE SUB 1250
BA .0303
LS            80
UK  1280   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100     YES
KK  1330     SUB
KM      RUNOFF FROM SUB 1330 AND ROUTE SUB 1300
BA .0303
LS            80
UK  1280   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100     YES
KK  1380     SUB
KM      RUNOFF FROM SUB 1380 AND ROUTE SUB 1330
BA .0303
LS            80
UK  1280   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100     YES
KK  1420     SUB
KM      RUNOFF FROM SUB 1420 AND ROUTE SUB 1380
BA .0303
LS            80
UK  1280   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100     YES
KK  1470     SUB
KM      RUNOFF FROM SUB 1470 AND ROUTE SUB 1420
BA .0303
LS            80
UK  1280   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100     YES
KK  1500     SUB
KM      RUNOFF FROM SUB 1500 AND ROUTE SUB 1470
BA .0303
LS            80
UK  1280   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100     YES
KK  1550     SUB
KM      RUNOFF FROM SUB 1550 AND ROUTE SUB 1500
BA .0303
LS            80
UK  1280   .0028     .15     100
```

```
RK   660   .0029    .045            TRAP      10     100     YES
KK  1580     SUB
KM      RUNOFF FROM SUB 1580 AND ROUTE SUB 1550
BA .0606
LS            80
UK  1280   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100     YES
KK  1582      CP
KM      COMBINE SUB 1580 WITH CP 1581
HC     2
KK  1571      CP
KM      ROUTE CP 1582 TO CP 1571
RK  1330  0.0028    .045            TRAP      10     100
KK  1240     SUB
KM      RUNOFF FROM SUB 1240
BA .0315
LS            80
UK  1330   .0028     .15     100
RK   660   .0029    .024            TRAP       5      10
KK  1310     SUB
KM      RUNOFF FROM SUB 1310 AND ROUTE SUB 1240
BA .0315
LS            80
UK  1330   .0028     .15     100
RK   660   .0029    .024            TRAP       5      10     YES
KK  1320     SUB
KM      RUNOFF FROM SUB 1320 AND ROUTE SUB 1310
BA .0306
LS            81
UK  1330   .0028     .15     100
RK   660   .0029    .024            TRAP       5      10     YES
KK  1400     SUB
KM      RUNOFF FROM SUB 1400 AND ROUTE SUB 1320
BA .0080
LS            84
UK   300   .0028     .15     100
RK   700   .0029    .024            TRAP       5      10     YES
KK  1390     SUB
KM      RUNOFF FROM SUB 1390
BA .0239
LS            80
UK  1020   .0028     .15     100
RK   660   .0029    .045            TRAP      10     100
KK  1391      CP
KM      ROUTE SUB 1390 TO CP 1391
RK   300  0.0028    .045            TRAP      10     100
KK  1392      CP
KM      COMBINE SUB 1400 AND CP 1391
HC     2
KK  1410     SUB
KM      RUNOFF FROM SUB 1410 AND ROUTE CP 1392
BA .0315
LS            80
UK  1330   .0028     .15     100
RK   660   .0029    .024            TRAP       5      10     YES
KK  1480     SUB
KM      RUNOFF FROM SUB 1480 AND ROUTE SUB 1410
BA .0315
LS            80
UK  1330   .0028     .15     100
```

```
RK   660   .0029    .024            TRAP       5      10     YES
KK  1490     SUB
KM      RUNOFF FROM SUB 1490 AND ROUTE SUB 1480
BA .0315
LS            80
UK  1330   .0028     .15     100
RK   660   .0029    .024            TRAP       5      10     YES
KK  1560     SUB
KM      RUNOFF FROM SUB 1560 AND ROUTE SUB 1490
BA .0315
LS            80
UK  1330   .0028     .15     100
RK   660   .0029    .024            TRAP       5      10     YES
KK  1570     SUB
KM      RUNOFF FROM SUB 1570 AND ROUTE SUB 1560
BA .0630
LS            80
UK  1330   .0028     .15     100
RK  1320   .0029    .024            TRAP       5      10     YES
KK  1572      CP
KM      COMBINE CP 1572 WITH CP 1571
HC     2
KK  1611      CP
KM      ROUTE CP 1572 TO CP 1611
RK  1330  0.0029    .024            TRAP       5      10
KK  1610     SUB
KM      RUNOFF FROM SUB 1610
BA .2505
LS            80
UK  1330   .0029     .15     100
RK  5250   .0028    .045            TRAP      10     100
KK  1612      CP
KM      COMBINE SUB 1610 AND CP 1611
HC     2
KK  1621      CP
KM      ROUTE CP 1612 TO CP 1621
RK  1350  0.0029    .024            TRAP       5      10
KK  1620     SUB
KM      RUNOFF FROM SUB 1620
BA .2542
LS            82
UK  1350   .0029     .15     100
RK  5250   .0028    .045            TRAP      10     100
KK  1630     SUB
KM      RUNOFF FROM SUB 1630
BA .1107
LS            84
UK  1000   .0029     .15     100
RK  2900   .0028    .045            TRAP      10     100
KK  1640     SUB
KM      RUNOFF FROM SUB 1640 AND ROUTE SUB 1630
BA .0245
LS            87
UK   470   .0029     .15     100
RK  2100   .0028    .045            TRAP      10     100     YES
KK  1622      CP
KM      COMBINE SUB 1640, CP 1621 AND SUB 1620
HC     3
KK  1887      CP
KM      ROUTE CP 1622 TO CP 1887
```

```
RS     1    FLOW      -1
RC  .050    .024    .080   10500   .0007
RX     0      50     100     115     180   190.5     194     544
RY   400     400     400     385     385   395.5     392   395.5
KK  1950     SUB
KM      RUNOFF FROM SUB 1950
BA .0407
LS            80
UK   960   .0029     .15     100
RK  1900   .0028    .045            TRAP      10     100
KK  1945     SUB
KM      RUNOFF FROM SUB 1945
BA .0822
LS            82
UK  1340   .0029     .15     100
RK  1710   .0028    .045            TRAP      10     100
KK  1951      CP
KM      ROUTE SUB 1945 TO CP 1951
RK   500  0.0029    .045            TRAP      10     100
KK  1952      CP
KM      COMBINE CP 1951 AND SUB 1950
HC     2
KK  1940     SUB
KM      RUNOFF FROM SUB 1940 AND ROUTE CP 1952
BA .1143
LS            87
UK  1200   .0029     .15     100
RK  2770   .0028    .045            TRAP      10     100     YES
KK  1920     SUB
KM      RUNOFF FROM SUB 1920
BA .1959
LS            86
UK  1300   .0029     .15     100
RK  4200   .0028    .045            TRAP      10     100
KK  1941      CP
KM      ROUTE SUB 1920 TO CP 1941
RK   650  0.0029    .045            TRAP      10     100
KK  1942      CP
KM      COMBINE SUB 1940 WITH CP 1941
HC     2
KK  1925     SUB
KM      RUNOFF FROM SUB 1925 AND ROUTE CP 1942
BA .0655
LS            87
UK  1730   .0029     .15     100
RK  1250   .0028    .045            TRAP      10     100     YES
KK  1930     SUB
KM      RUNOFF FROM SUB 1930 AND ROUTE SUB 1925
BA .0717
LS            86
UK  1090   .0029     .15     100
RK  2200   .0028    .045            TRAP      10     100     YES
KK  1910     SUB
KM      RUNOFF FROM SUB 1910
BA .1445
LS            85
UK  1370   .0029     .15     100
RK  2940   .0028    .045            TRAP      10     100
KK  1900     SUB
KM      RUNOFF FROM SUB 1900 AND ROUTE SUB 1910
```

```
BA .1214
LS            87
UK  1370   .0029     .15     100
RK  2470   .0028    .045            TRAP      10     100     YES
KK  1890     SUB
KM      RUNOFF FROM SUB 1890 AND ROUTE SUB 1900
BA .0975
LS            87
UK  1370   .0029     .15     100
RK  1980   .0028    .045            TRAP      10     100     YES
KK  1931      CP
KM      ROUTE SUB 1890 TO CP 1931
RK   530  0.0029    .045            TRAP      10     100
KK  1932      CP
KM      COMBINE SUB 1930 WITH CP 1931
HC     2
KK  1885     SUB
KM      RUNOFF FROM SUB 1885 AND ROUTE CP 1932
BA .0657
LS            87
UK  1100   .0029     .15     100
RK  2400   .0028    .045            TRAP      10     100     YES
KK  1850     SUB
KM      RUNOFF FROM SUB 1850
BA .1392
LS            86
UK  1320   .0029     .15     100
RK  2940   .0028    .045            TRAP      10     100
KK  1860     SUB
KM      RUNOFF FROM SUB 1860 AND ROUTE SUB 1850
BA .1170
LS            87
UK  1320   .0029     .15     100
RK  2470   .0028    .045            TRAP      10     100     YES
KK  1870     SUB
KM      RUNOFF FROM SUB 1870 AND ROUTE SUB 1860
BA .1847
LS            87
UK  1320   .0029     .15     100
RK  3900   .0028    .045            TRAP      10     100     YES
KK  1886      CP
KM      ROUTE SUB 1870 TO CP 1886
RK   300  0.0029    .045            TRAP      10     100
KK  1880     SUB
KM      RUNOFF FROM SUB 1880
BA .0546
LS            87
UK  1200   .0029     .15     100
RK  1700   .0028    .045            TRAP      10     100
KK  1888      CP
KM      COMBINE CP 1886, SUB 1880, AND SUB 1885 AND CP 1887
HC     4
KK  1984      CP
KM      ROUTE CP 1888 TO CP 1984
RS     1    FLOW      -1
RC  .050    .024    .080    1850   .0007
RX     0      50     100     115     180   190.5     194     544
RY   400     400     400     385     385   395.5     392   395.5
KK  1840     SUB
KM      RUNOFF FROM SUB 1840
```

```
BA .0315
LS            86
UK  1630   .0029     .15     100
RK  2550   .0028    .024            TRAP      5       1
KK  1670     SUB
KM      RUNOFF FROM SUB 1670
BA .0759
LS            80
UK   830   .0029     .15     100
RK  2550   .0028    .045            TRAP     10     100
KK  1681      CP
KM      ROUTE SUB 1670 TO CP 1681
RK   830  0.0029    .045            TRAP     10     100
KK  1680     SUB
KM      RUNOFF FROM SUB 1680
BA .0759
LS            80
UK   830   .0029     .15     100
RK  2550   .0028    .045            TRAP     10     100
KK  1682      CP
KM      COMBINE SUB 1680 AND CP 1681
HC     2
KK  1751      CP
KM      ROUTE CP 1682 TO 1751
RK   860  0.0029    .024            TRAP     10     100
KK  1226      CP
KM      DISCHARGE FROM 2-66" CMP OVER THE CAP AT STA 332+75
IN    60 20APR89
BA.00001
QI     0       0       0       0       0       0       0       0      40     100
QI   200     300     437     437     437     300     250     200     150     100
QI    70      40      27      13       0
KK  1227     DIV
KM      DIVERT CROSS-DRAINAGE FROM CP 1226 OUT OF OUTER LOOP MODEL
DT  1228
DI     0     100    1000
DQ     0      85     850
KK  1225     SUB
KM      RUNOFF FROM SUB 1225 & ROUTE NON-DIVERTED FLOW FROM DIV 1227
BA .0778
LS            77
UK   145   .0213     .10     100
RK  3200   .0119    .045            TRAP     10       5     YES
KK  1230     SUB
KM      RUNOFF FROM SUB 1230 & ROUTE SUB 1225
BA .6421
LS            77
UK   445   .0080     .10     100
RK  6800   .0091    .045            TRAP     10      20     YES
KK  1221      CP
KM      ROUTE SUB 1230 TO CP 1221
RK  3450   .0043    .030            TRAP     20      10
KK  1214     SUB
KM      RUNOFF FROM SUB 1214
BA .0149
LS            85      20
UK   145   .0213     .10     100
RK  1100   .0182    .045            TRAP     10       5
KK  1217     SUB
KM      RUNOFF FROM SUB 1217 & ROUTE SUB 1214
```

```
BA .7240
LS            77
UK   145   .0213     .10     100
RK  6800   .0124    .045            TRAP      15       5     YES
KK  1220     SUB
KM      RUNOFF FROM SUB 1220 & ROUTE SUB 1217
BA .6675
LS            77
UK   445   .0080     .10     100
RK  6440   .0087    .045            TRAP      10      20     YES
KK  1222      CP
KM      ROUTE SUB 1220 TO CP 1222
RK  1900   .0074    .030            TRAP      20      10
KK  1223      CP
KM      COMBINE CP 1221 AND CP 1222
HC     2
KK  1750     SUB
KM      RUNOFF FROM SUB 1750 AND ROUTE CP 1223
BA .0787
LS            80
UK   860   .0029     .15     100
RK  2550   .0028    .045            TRAP      10     100     YES
KK  1752      CP
KM      COMBINE SUB 1750 AND CP 1751
HC     2
KK  1761      CP
KM      ROUTE CP 1752 TO CP 1761
RK   550  0.0029    .024            TRAP      10     100
KK  1760     SUB
KM      RUNOFF FROM SUB 1760
BA .0493
LS            80
UK   550   .0029     .15     100
RK  2550   .0028    .045            TRAP      10     100
KK  1762      CP
KM      COMBINE SUB 1760 AND CP 1761
HC     2
KK  1771      CP
KM      ROUTE CP 1762 TO CP 1771
RK   400  0.0029    .045            TRAP      10     100
KK  1770     SUB
KM      RUNOFF FROM SUB 1770
BA .0359
LS            80
UK   400   .0029     .15     100
RK  2550   .0028    .045            TRAP      10     100
KK  1772      CP
KM      COMBINE SUB 1770 AND CP 1771
HC     2
KK  1841      CP
KM      ROUTE CP 1772 TO CP 1841
RK  1600  0.0029    .045            TRAP      10     100
KK  1842      CP
KM      COMBINE CP 1841 AND SUB 1840
HC     2
KK  1830     SUB
KM      RUNOFF FROM SUB 1830 AND ROUTE CP 1842
BA .1134
LS            87
UK  1230   .0029     .15     100
```

```
RK  2570   .0028    .024            TRAP       5       1     YES
KK  1660     SUB
KM      RUNOFF FROM SUB 1660
BA .0903
LS            80
UK   980   .0029     .15     100
RK  2570   .0028    .045            TRAP      10     100
KK  1691      CP
KM      ROUTE SUB 1660 TO CP 1691
RK   980  0.0029    .045            TRAP      10     100
KK  1690     SUB
KM      RUNOFF FROM SUB 1690
BA .0922
LS            80
UK   980   .0029     .15     100
RK  2570   .0028    .045            TRAP      10     100
KK  1692      CP
KM      COMBINE SUB 1690 AND CP 1691
HC     2
KK  1741      CP
KM      ROUTE CP 1692 TO CP 1741
RK   980  0.0029    .045            TRAP      10     100
KK  1740     SUB
KM      RUNOFF FROM SUB 1740
BA .0913
LS            80
UK   980   .0029     .15     100
RK  2570   .0028    .045            TRAP      10     100
KK  1742      CP
KM      COMBINE SUB 1740 AND CP 1741
HC     2
KK  1781      CP
KM      ROUTE CP 1742 TO CP 1781
RK   980  0.0029    .045            TRAP      10     100
KK  1780     SUB
KM      RUNOFF FROM SUB 1780
BA .0903
LS            83
UK   980   .0029     .15     100
RK  2570   .0028    .045            TRAP      10     100
KK  1782      CP
KM      COMBINE SUB 1780 AND CP 1781
HC     2
KK  1831      CP
KM      ROUTE CP 1782 TO CP 1831
RK  1230  0.0029    .045            TRAP      10     100
KK  1832      CP
KM      COMBINE CP 1831 AND SUB 1830
HC     2
KK  1820     SUB
KM      RUNOFF FROM SUB 1820 AND ROUTE CP 1832
BA .1134
LS            84
UK  1230   .0029     .15     100
RK  2570   .0028    .024            TRAP       5       1     YES
KK  1650     SUB
KM      RUNOFF FROM SUB 1650
BA .0903
LS            80
UK   980   .0029     .15     100
```

```
RK  2570   .0028    .045            TRAP      10      100
KK  1701      CP
KM      ROUTE SUB 1650 TO CP 1701
RK   980  0.0029    .045            TRAP      10      100
KK  1700     SUB
KM      RUNOFF FROM SUB 1700
BA .0922
LS            80
UK   980   .0029     .15     100
RK  2570   .0028    .045            TRAP      10      100
KK  1702      CP
KM      COMBINE SUB 1700 AND CP 1701
HC     2
KK  1731      CP
KM      ROUTE CP 1702 TO CP 1731
RK   980  0.0029    .045            TRAP      10      100
KK  1730     SUB
KM      RUNOFF FROM SUB 1730
BA .0913
LS            80
UK   990   .0029     .15     100
RK  2570   .0028    .045            TRAP      10      100
KK  1732      CP
KM      COMBINE SUB 1730 AND CP 1731
HC     2
KK  1791      CP
KM      ROUTE CP 1732 TO CP 1791
RK   980  0.0029    .045            TRAP      10      100
KK  1790     SUB
KM      RUNOFF FROM SUB 1790
BA .0903
LS            82
UK   980   .0029     .15     100
RK  2570   .0028    .045            TRAP      10      100
KK  1792      CP
KM      COMBINE SUB 1790 AND CP 1791
HC     2
KK  1822      CP
KM      ROUTE CP 1792 TO CP 1822
RK  1230  0.0029    .045            TRAP      10      100
KK  1823      CP
KM      COMBINE SUB 1820 AND CP 1822
HC     2
KK  1810     SUB
KM      RUNOFF FROM SUB 1810 AND ROUTE CP 1823
BA .1156
LS            87
UK  1230   .0029     .15     100
RK  2620   .0028    .024            TRAP       5       1     YES
KK  1210     SUB
KM      RUNOFF FROM SUB 1210
BA .9319
LS            77
UK   488   .0080     .10     100
RK  9400   .0097    .045            TRAP      10      20
KK  1201      CP
KM      ROUTE SUB 1210 TO CP 1201
RK  3650   .0044    .030            TRAP      20      10
KK  1207     SUB
KM      RUNOFF FROM SUB 1207
```

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BA .1159
LS            85      20
UK   145   .0213     .10     100
RK  2000   .0210    .045            TRAP      10       5
KK  1204     SUB
KM      RUNOFF FROM SUB 1204 & ROUTE SUB 1207
BA .6299
LS            81
UK   145   .0213     .10     100
RK  7400   .0105    .045            TRAP      10      10     YES
KK  1200     SUB
KM      RUNOFF FROM SUB 1200 & ROUTE SUB 1204
BA .5624
LS            77
UK   610   .0080     .10     100
RK  8480   .0083    .045            TRAP      10      20     YES
KK  1202      CP
KM      COMBINE SUB 1200 & CP 1201
HC     2
KK  1191      CP
KM      ROUTE CP 1202 TO CP 1191
RK  2400   .0054    .035            TRAP      25      15
KK  1186     SUB
KM      RUNOFF FROM SUB 1186
BA .1189
LS            81      20
UK   145   .0213     .10     100
RK  3800   .0111    .045            TRAP      10       3
KK  1187     SUB
KM      RUNOFF FROM SUB 1187 & ROUTE SUB 1186
BA .1871
LS            78
UK   145   .0213     .10     100
RK  5800   .0100    .045            TRAP      10       5     YES
KK  1190     SUB
KM      RUNOFF FROM SUB 1190 & ROUTE SUB 1187
BA .7228
LS            77
UK   610   .0080     .10     100
RK 10600   .0081    .045            TRAP      10      20     YES
KK  1192      CP
KM      COMBINE SUB 1190 & CP 1191
HC     2
KK  1181      CP
KM      ROUTE CP 1192 TO CP 1181
RK  1850   .0059    .035            TRAP      25      15
KK  1173      CP
KM      DISCHARGE FROM 36" RCP OVER CAP AT STA 243+00
IN    60 20APR89
BA.00001
QI     0       0       0       0       0       0       0       0       0       0
QI    15      37      37      25      20      15      10       5       0       0
QI     0       0       0       0       0
KK  1174     SUB
KM      RUNOFF FROM SUB 1174 & ROUTE CAP CROSS-DRAINAGE FROM CP 1173
BA .2122
LS            78      20
UK   145   .0213     .10     100
RK  3400   .0103    .045            TRAP      10       4     YES
KK  1177     SUB
```

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KM      RUNOFF FROM SUB 1177 & ROUTE SUB 1174
BA .2394
LS            77
UK   145   .0213     .10     100
RK  5600   .0123    .045            TRAP      10       5     YES
KK  1180     SUB
KM      RUNOFF FROM SUB 1180 & ROUTE SUB 1177
BA .7011
LS            77
UK   575   .0080     .10     100
RK 11000   .0078    .045            TRAP      10      20     YES
KK  1000     SUB
KM      RUNOFF FROM SUB 1000
BA .0166
LS            77      60
UK   725   .0063     .10     100
RK   700   .0040    .024            TRAP      10      50
KK  1042      CP
KM      ROUTE SUB 1000 TO CP 1042
RK   320   0.004    .024            TRAP      10      50
KK  1060     SUB
KM      RUNOFF FROM SUB 1060
BA .0399
LS            77      60
UK   210   .0014     .09     100
RK  2400   .0001    .024            TRAP       5      25
KK  1051      CP
KM      ROUTE SUB 1060 TO CP 1051
RK   800   .0040    .024            TRAP      10      50
KK  1050     SUB
KM      RUNOFF FROM SUB 1050
BA .0009
LS            77      60
UK   100   .0040     .09     100
RK   450   .0040    .024   .0006    TRAP       5      25
RK   200   .0040    .040            TRAP       5      10
KK  1052      CP
KM      COMBINE SUB 1050 & CP 1051
HC     2
KK  1041      CP
KM      ROUTE CP 1052 TO CP 1041
RK  1820   .0040    .024            TRAP      10      50
KK  1040     SUB
KM      RUNOFF FROM SUB 1040
BA .0381
LS            77      60
UK   100   .0040     .09     100
RK  2200   .0040    .025            TRAP       0      50
KK  1043      CP
KM      COMBINE SUB 1040 WITH CP 1041 AND CP 1442
HC     3
KK  DAM8
KM      ROUTE CP 1043 THROUGH RETENTION BASIN 8
RS     1    STOR
SV     0   1.895    3.79
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK  1010     SUB
KM      RUNOFF FROM SUB 1010
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BA .0387
LS            77      45
UK   130   .0040     .09     100
RK   680   .0040    .024   .0057    TRAP       5      25
RK  1250   .0040    .024            TRAP       5      25
KK  1012      CP
KM      COMBINE SUB 1010 WITH CP 1011
HC     2
KK  1110     SUB
KM      RUNOFF FROM SUB 1110 AND ROUTE CP 1012
KM      ROUTING DOWN ALMA SCHOOL ROAD
BA .0109
LS            77
UK   450   .0080     .10     100
RK   950   .0074    .030            TRAP      20       1     YES
KK  1020     SUB
KM      RUNOFF FROM SUB 1020
BA .0345
LS            77      45
UK   110   .0063     .10     100
RK  1300   .0054    .024            TRAP       5       1
KK  1120     SUB
KM      RUNOFF FROM SUB 1120 AND ROUTE SUB 1020
BA .0352
LS            77
UK   355   .0080     .10     100
RK  1200   .0083    .045            TRAP       5       3     YES
KK  1121      CP
KM      COMBINE SUB 1110 AND SUB 1120
HC     2
KK  2222     DIV
KM      DIVERT FLOW TO SUB 480
DT  2223
DI     0    1000   10000
DQ     0     400    4000
KK  1131      CP
KM      ROUTE DIV 2222 TO CP 1131
KM      ROUTING DOWN ALMA SCHOOL ROAD
RK   750   .0027    .030            TRAP      20       1
KK  1070     SUB
KM      RUNOFF FROM SUB 1070
BA .0393
LS            77      45
UK   130   .0040     .10     100
RK   300   .0040    .024   .0057    TRAP       0      50
RK  1900    .004    .035            TRAP       5      10
KK  1031      CP
KM      ROUTE SUB 1070 TO CP 1031
RK   400  0.0035    .035            TRAP       5      10
KK  1030     SUB
KM      RUNOFF FROM SUB 1030
BA .0308
LS            77      45
UK   160   .0040     .10     100
RK   500   .0041    .025   .0045    TRAP       0      50
RK  1800    .003    .035            TRAP      12       4
KK  1032      CP
KM      COMBINE SUB 1030 WITH CP 1031
HC     2
KK  1130     SUB
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KM      RUNOFF FROM SUB 1130 AND ROUTE CP 1032
BA .0603
LS            77
UK   260   .0080     .10     100
RK  2500   .0076    .045            TRAP       5      10     YES
KK  1132      CP
KM      COMBINE SUB 1130 WITH CP 1131
HC     2
KK  3333     DIV
KM      DIVERT FLOW AT CP 1132
DT  3334
DI     0     100     500    1000    5000
DQ     0      50     250     500    2500
KK  1151      CP
KM      ROUTE DIV 3333 TO CP 1151
KM      ROUTING DOWN ALMA SCHOOL ROAD
RK  2300   .0061    .030            TRAP      20       1
KK  1080     SUB
KM      RUNOFF FROM SUB 1080
BA .0824
LS            77      38
UK   110   .0040     .10     100
RK  2100   .0057    .024            TRAP       5      25
KK  1090     SUB
KM      RUNOFF FROM SUB 1090 AND ROUTE SUB 1080
BA .0528
LS            77      38
UK   105   .0040     .10     100
RK  1500   .0040    .024            TRAP       5      25     YES
KK  1150     SUB
KM      RUNOFF FROM SUB 1150 AND ROUTE SUB 1090
BA .2350
LS            77
UK   770   .0080     .10     100
RK  5300   .0077    .045            TRAP       5      10     YES
KK  1152      CP
KM      COMBINE SUB 1150 AND CP 1151
HC     2
KK  4444     DIV
KM      DIVERT CP 1152
DT  4445
DI     0     100     500    1000    5000
DQ     0      50     250     500    2500
KK  1161      CP
KM      ROUTE DIV 4444 TO CP 1161
KM      ROUTING DOWN ALMA SCHOOL ROAD
RK  3350   .0048    .030            TRAP      20       5
KK  1159      CP
*  ******************************************************************************
*      DISCHARGE IN CFS RELEASED FROM 3-72" CMP ACROSS CAP AT STA 234+10
*  ******************************************************************************
KM      OUTFLOW FROM PIPES
IN    10 20APR89       0
BA .0001
QI     0       2       5       7      10      14      17      21      25      29
QI    33      37      41      46      51      57      63      69      75      82
QI    89      96     104     112     120     130     140     150     162     173
QI   185     198     212     225     239     252     266     283     300     317
QI   333     350     366     384     402     420     440     460     480     500
QI   520     540     557     573     590     607     623     640     655     670
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QI   695    712    728    745    757    770    782    790    798    806
QI   811    817    822    825    827    830    831    833    834    834
QI   833    832    832    831    830    828    825    823    822    820
QI   819    817    814    812    810    809    807    804    802    799
QI   796    793    790    787    783    780    776    773    770    766
QI   763    760    756    752    748    743    738    733    728    724
QI   719    713    706    700    694    687    681    674    667    660
QI   653    645    638    628    618    608    597    589    580    570
QI   559    549    539    528    518
*  ******************************************************************************
KK  1154     SUB
KM      RUNOFF FROM SUB 1154 & ROUTE CP 1159
BA .1600
LS            85      20
UK   145   .0213     .10     100
RK  4600   .0120    .045            TRAP      10       5     YES
KK  1155     SUB
KM      RUNOFF FROM SUB 1155 & ROUTE SUB 1154
BA .4584
LS            77
UK   305   .0213     .10     100
RK  6280   .0105    .045            TRAP      12       5     YES
KK  1153     SUB
KM      RUNOFF FROM SUB 1153
BA .0773
LS            77      20
UK   145   .0213     .10     100
RK  1600   .0100    .035            TRAP      10       5
KK  1101      CP
KM      ROUTE SUB 1153 TO CP 1101
RK  2500   .0104    .045            TRAP      12       5
KK  1100     SUB
KM      RUNOFF FROM SUB 1100
BA .0043
LS            77      38
UK   150   .0040     .10     100
RK   450   .0030    .024            TRAP       5      25
KK  1102      CP
KM      COMBINE SUB 1100 & CP 1101
HC     2
KK  1156      CP
KM      ROUTE CP 1102 TO CP 1156
RK  2800   .0089    .045            TRAP      12       5
KK  1157      CP
KM      COMBINE SUB 1155 & CP 1156
HC     2
KK  1160     SUB
KM      RUNOFF FROM SUB 1160 & ROUTE CP 1157
BA .3033
LS            77
UK   640   .0080     .10     100
RK  7200   .0071    .045            TRAP      10      20     YES
KK  1166     SUB
KM      RUNOFF FROM SUB 1166
BA .1080
LS            85      20
UK   145   .0213     .10     100
RK  2800   .0143    .045            TRAP       6       3
KK  1165     SUB
KM      RUNOFF FROM SUB 1165 & ROUTE SUB 1166
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BA .3942
LS            79
UK   145   .0213     .10     100
RK  5800   .0121    .045            TRAP      10       5     YES
KK  1170     SUB
KM      RUNOFF FROM SUB 1170 & ROUTE SUB 1165
BA .2588
LS            77
UK   480   .0080     .10     100
RK  6800   .0078    .045            TRAP      10      20     YES
KK  1162      CP
KM      ROUTE SUB 1170 TO CP 1162
RK  1850   .0070    .045            TRAP      10      20
KK  1163      CP
KM      COMBINE SUB 1160, CP 1161, & CP 1162
HC     3
KK  5555     DIV
KM      DIVERT FLOW TO SUB 1970
DT  5556
DI     0    1000    4000
DQ     0     500    2000
KK  1182      CP
KM      ROUTE NON-DIVERTED FLOW FROM CP 1163 (DIV 5555) TO CP 1182
KM      ROUTE DOWN ALMA SCHOOL ROAD
RK  1500   .0053    .030            TRAP      20       5
KK  1183      CP
KM      COMBINE CP 1182 & SUB 1180
HC     2
KK  1184      CP
KM      ROUTE CP 1183 TO CP 1184
KM      ROUTE DOWN ALMA SCHOOL ROAD
RK  1850   .0059    .030            TRAP      20      10
KK  1185      CP
KM      COMBINE CP 1181 & CP 1184
HC     2
KK  1646      CP
KM      ROUTE CP 1185 TO CP 1646
KM      ROUTE DOWN ALMA SCHOOL ROAD
RK   980   .0054    .030            TRAP      20      10
KK  1645     SUB
KM      RUNOFF FROM SUB 1645
BA .0921
LS            84
UK   980   .0054     .15     100
RK  2620   .0035    .045            TRAP      10     100
KK  1647      CP
KM      COMBINE CP 1646 WITH SUB 1645
HC     2
KK  1711      CP
KM      ROUTE SUB 1647 TO CP 1711
RK   980   .0029    .030            TRAP      20      10
KK  1710     SUB
KM      RUNOFF FROM SUB 1710
BA .0940
LS            83
UK   980   .0029     .15     100
RK  2620   .0028    .045            TRAP      10     100
KK  1712      CP
KM      COMBINE SUB 1710 AND CP 1711
HC     2
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KK  1721      CP
KM      ROUTE CP 1712 TO CP 1721
RK   980   .0029    .030            TRAP      20      10
KK  1720     SUB
KM      RUNOFF FROM SUB 1720
BA .0930
LS            85
UK   980   .0029     .15     100
RK  2620   .0028    .045            TRAP      10     100
KK  1722      CP
KM      COMBINE SUB 1720 AND CP 1721
HC     2
KK  1801      CP
KM      ROUTE CP 1722 TO CP 1801
RK   980   .0029    .030            TRAP      20      10
KK  1800     SUB
KM      RUNOFF FROM SUB 1800
BA .0921
LS            87
UK   980   .0029     .15     100
RK  2620   .0028    .045            TRAP      10     100
KK  1802      CP
KM      COMBINE SUB 1800 AND CP 1801
HC     2
KK  1811      CP
KM      ROUTE CP 1802 TO CP 1811
RK  1230   .0029    .030            TRAP      20      10
KK  1812      CP
KM      COMBINE CP 1811 AND SUB 1810
HC     2
KK  1813      CP
KM      ROUTE CP 1812 TO CP 1813
RK   700   .0029    .030            TRAP      20      10
KK  1985      CP
KM      COMBINE CP 1813 AND CP 1984
HC     2
KK  1986      CP
KM      ROUTE CP 1985 TO CP 1986
RS     1    FLOW      -1
RC  .050    .024    .080    2900   .0007
RX     0      50     100     115     180   190.5     194     544
RY   400     400     400     385     385   395.5     392   395.5
KK  3334     RET
KM      RETRIEVE DIVERT FROM CP 1132
DR  3334
KK  1135     SUB
KM      RUNOFF FROM SUB 1135 AND ROUTE RET 3334
BA .1096
LS            80
UK   260   .0057     .10     100
RK  4400   .0070    .045            TRAP       5      10     YES
KK  1136      CP
KM      ROUTE SUB 1135 TO CP 1136 (ROUTE ALONG DIRT ROAD)
RK  1700   .0047    .030            TRAP      10       5
KK  4445     RET
KM      RETRIEVE DIVERT FROM CP 1152
DR  4445
KK  1140     SUB
KM      RUNOFF FROM SUB 1140 AND ROUTE RET 4445
BA .1387
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LS            80
UK   770   .0057     .10     100
RK  4000   .0063    .045            TRAP       5      10     YES
KK  1141      CP
KM      COMBINE CP 1136 AND SUB 1140
HC     2
KK  1971      CP
KM      ROUTE CP 1141 TO CP 1971 (ROUTE ALONG DIRT ROAD)
RK  4000   .0045    .030            TRAP      10       5
KK  5556     RET
KM      RETRIEVE DIVERT FROM  CP 1163
DR  5556
KK  1972      CP
KM      ROUTE RET 5556 TO CP 1972
RK  5200   .0052    .045            TRAP       5      10
KK  1970     SUB
KM      RUNOFF FROM SUB 1970
BA .5112
LS            81
UK  1200   .0057     .10     100
RK  6400   .0061    .045            TRAP       5      10
KK  1973      CP
KM      COMBINE SUB 1970, CP 1171, AND CP 1172
HC     3
KK  1980     SUB
KM      RUNOFF FROM SUB 1980 AND ROUTE CP 1973 (ROUTE ALONG DIRT ROAD)
BA .4734
LS            85
UK  1200   .0057     .10     100
RK  4500   .0038    .045            TRAP      15      25     YES
KK  1987      CP
KM      COMBINE SUB 1980 WITH CP 1986
HC     2
KK  1991      CP
KM      ROUTE CP 1987 TO CP 1991
RS     1    FLOW      -1
RC  .050    .024    .080    2660   .0007
RX     0      50     100     115     180   190.5     194     544
RY   400     400     400     385     385   395.5     392   395.5
KK  1960     SUB
KM      RUNOFF FROM SUB 1960
BA .3809
LS            85
UK  1200   .0057     .10     100
RK  6100   .0051    .045            TRAP       5      15
KK  1990     SUB
KM      RUNOFF FROM SUB 1990 AND ROUTE SUB 1960
BA .3793
LS            85
UK  1200   .0057     .10     100
RK  4200   .0038    .045            TRAP      10      20     YES
KK  1993      CP
KM      COMBINE CP 1991 AND SUB 1990
HC     2
KK  2001      CP
KM      ROUTE CP 1993 TO CP 2001
RS     1    FLOW      -1
RC  .050    .024    .080    1550   .0007
RX     0      50     100     115     180   190.5     194     544
RY   400     400     400     385     385   395.5     392   395.5
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KK  2000     SUB
KM      RUNOFF FROM SUB 2000
BA .1153
LS            85
UK  1200   .0057     .10     100
RK  2500   .0048    .045            TRAP       5      15
KK  2002      CP
KM      COMBINE CP 2001, SUB 2000
HC     2
KK   541      CP
KM      ROUTE CP 2002 TO CP 541
RS     1    FLOW      -1
RC  .050    .024    .080    1100   .0007
RX     0      50     100     115     180   190.5     194     544
RY   400     400     400     385     385   395.5     392   395.5
KK   540     SUB
KM      RUNOFF FROM SUB 540
BA .2064
LS            77
UK  1200   .0057     .10     100
RK  4400   .0045    .045            TRAP       5      15
KK   542      CP
KM      COMBINE CP 2001 & SUB 540
HC     2
KK   546      CP
KM     ROUTE CP 542 TO CP 546
RS     1    FLOW      -1
RC  .050    .024    .080     850   .0007
RX     0      50     100     115     180   190.5     194     544
RY   400     400     400     385     385   395.5     392   395.5
*       ********************************************************************
*       BEGIN DRAINAGE AREA CONTRIBUTING DIRECTLY TO HIGHWAY DRAINAGE CHANNEL
*       ********************************************************************
KK   165     SUB
KM      RUNOFF FROM SUB 165
BA .0133
LS            77      85
UK   230    .005     .09     100
RK   320    .004    .024            TRAP      10      25
KKDAM165
KM      ROUTE SUB 165 THROUGH RETENTION BASIN
RS     1    STOR
SV     0    .265     .53
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   156      CP
KM      ROUTE DAM 165 TO CP 156
RK   840    .004    .024            TRAP      10      25
KK   160     SUB
KM      RUNOFF FROM SUB 160
BA .0234
LS            77      85
UK   230    .005     .09     100
RK   880    .004    .024            TRAP      10      25
KKDAM160
KM      ROUTE SUB 160 THROUGH RETENTION BASIN
RS     1    STOR
SV     0    .465     .93
SE   100     101     102
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SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   161      CP
KM      ROUTE DAM 160 TO CP 161
RK   740    .004    .025            TRAP      50       2
KK   155     SUB
KM      RUNOFF FROM SUB 155
BA .0256
LS            77      85
UK   230    .005     .09     100
RK  1120    .004    .024            TRAP      10      25
KKDAM155
KM      ROUTE SUB 155 THROUGH RETENTION BASIN
RS     1    STOR
SV     0     .51    1.02
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   157      CP
KM      COMBINE DAM 155 WITH CP 156 AND CP 161
HC     3
KK   151      CP
KM      ROUTE CP 157 TO CP 151
RK  1140    .004    .024            TRAP      10      25
KK   150     SUB
KM      RUNOFF FROM SUB 150
BA .0427
LS            77      85
UK   230    .005     .09     100
RK  1200    .004    .024            TRAP      10      25
KKDAM150
KM      ROUTE SUB 150 THROUGH RETENTION BASIN
RS     1    STOR
SV     0     .85    1.70
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   152      CP
KM      COMBINE DAM 150 WITH CP 151
HC     2
KK   121      CP
KM      ROUTE CP 152 TO CP 121
RK   720    .004    .024            TRAP      10      25
KK    70     SUB
KM      RUNOFF FROM SUB 70
BA .0108
LS            77
UK   270  .00625      .1     100
RK   760    .004    .024            TRAP      10      50
KK   122      CP
KM      ROUTE CP SUB 70 TO CP 122
RK   520    .004    .024            TRAP      10      25
KK   120     SUB
KM      RUNOFF FROM SUB 120
BA .0149
LS            77      85
UK   270    .005     .09     100
RK   800    .004    .024            TRAP       0      25
KKDAM120
KM      ROUTE SUB 120 THROUGH RETENTION BASIN
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RS     1    STOR
SV     0    .295     .59
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   123      CP
KM      COMBINE DAM 120 WITH CP 121 AND CP 122
HC     3
KK    75     SUB
KM      RUNOFF FROM SUB 75 AND ROUTE CP 123
BA .0025
LS            77      85
UK   100    .005     .09     100
RK   200    .004    .024            TRAP      10      50     YES
KK DAM75
KM      ROUTE SUB 75 THROUGH RETENTION BASIN
RS     1    STOR
SV     0     .05     .10
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK    85     SUB
KM      RUNOFF FROM SUB 85 AND ROUTE DAM 75
BA .0027
LS            77      85
UK    70    .005     .09     100
RK   285    .004    .024            TRAP      10      25     YES
KK DAM85
KM      ROUTE SUB 85 THROUGH RETENTION BASIN
RS     1    STOR
SV     0    .055     .11
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK    80     SUB
KM      RUNOFF FROM SUB 80
BA .0066
LS            77      85
UK   105    .005     .09     100
RK   240    .004    .024            TRAP       0      25
KK DAM80
KM      ROUTE SUB 80 THROUGH RETENTION BASIN
RS     1    STOR
SV     0     .13     .26
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK    87      CP
KM      ROUTE DAM 80 TO CP 87
RK   240    .004    .024            TRAP      10      50
KK    88      CP
KM      COMBINE CP 87 AND DAM 85
HC     2
KK    96      CP
KM      ROUTE CP 88 TO CP 96
RK   600    .004    .024            TRAP      10      25
KK    95     SUB
KM      RUNOFF FROM SUB 95
BA .0124
LS            77      95
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UK   315    .005     .09     100
RK  1020    .004    .035            TRAP      6     3.6
KK DAM95
KM      ROUTE SUB 95 THROUGH RETENTION BASIN
RS     1    STOR
SV     0    .275     .55
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK    97      CP
KM      COMBINE DAM 95 WITH CP 96
HC     2
KK    91      CP
KM      ROUTE CP 97 TO CP 91
RK   520    .004    .024            TRAP     10      25
KK    90     SUB
KM      RUNOFF FROM SUB 90
BA .0151
LS            77      60
UK   150    .005     .09     100
RK  1000    .004    .035            TRAP     30       3
KK DAM90
KM      ROUTE SUB 90 THROUGH RETENTION BASIN
RS     1    STOR
SV     0     .26     .52
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK    92      CP
KM      COMBINE DAM 90 WITH CP 91
HC     2
KK   110     SUB
KM      RUNOFF FROM SUB 110
BA .0158
LS            77      85
UK   120    .005     .09     100
RK  1280    .004    .024            TRAP     10      25
KKDAM110
KM      ROUTE SUB 110 THROUGH RETENTION BASIN
RS     1    STOR
SV     0    .315     .63
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   101      CP
KM      ROUTE DAM 110 TO CP 101
RK   680    .004    .024            TRAP     10      25
KK   100     SUB
KM      RUNOFF FROM SUB 100
BA .0032
LS            77      85
UK   200    .005     .09    100
RK   640    .004    .024            TRAP     10      25
KKDAM100
KM      ROUTE SUB 100 THROUGH RETENTION BASIN
RS     1    STOR
SV     0     .11     .22
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
```

```
KK   102      CP
KM      COMBINE CP 101 WITH DAM 100 AND CP 92
HC     3
KK   103      CP
KM      ROUTE CP 102 TO CP 103
RK   250    .004    .018            TRAP      10       1
KK   360     SUB
KM      RUNOFF FROM SUB 360 AND ROUTE CP 103
BA .0253
LS            77
UK  1000   .0057     .10     100
RK  1200   .0042    .012            TRAP      15       1     YES
KK   410     SUB
KM      RUNOFF FROM SUB 410 & ROUTE SUB 360
BA .0330
LS            77
UK   400   .0057     .10     100
RK  1500   .0067    .045   .0330    TRAP       5       5
RK  1000   .0060    .012            TRAP      15       1     YES
KK   421      CP
KM      ROUTE SUB 410 TO CP 421
RK   200    .010    .012            TRAP      15       1
KK   140     SUB
KM      RUNOFF FROM SUB 140
BA .0263
LS            77      85
UK   230    .005     .09     100
RK  2000    .004    .024            TRAP      10      50
KKDAM140
KM      ROUTE SUB 140 THROUGH RETENTION BASIN
RS     1    STOR
SV     0    .525    1.05
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   130     SUB
KM      RUNOFF FROM SUB 130 AND ROUTE DAM 140
BA .0317
LS            77      85
UK   510    .005     .09     100
RK   200    .004    .025            TRAP       5       2     YES
KKDAM130
KM      ROUTE SUB 130 THROUGH RETENTION BASIN
RS     1    STOR
SV     0    .505    1.01
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   420     SUB
KM      RUNOFF FROM SUB 420 AND ROUTE DAM 130
BA .0940
LS            77
UK  1200   .0057     .10     100
RK  2400   .0058    .045            TRAP       5       5     YES
KK   422      CP
KM      COMBINE SUB 420 WITH CP 421
HC     2
KK   401      CP
KM      ROUTE CP 422 TO CP 401
RK   800   .0013    .012            TRAP      15       1
```

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KK   240     SUB
KM      RUNOFF FROM SUB 240
BA .0739
LS            77      33
UK   140    .004     .09     100
RK  1720    .004    .024    .034    TRAP      10      25
KK   246      CP
KM      ROUTE SUB 240 TO CP 246
RK   960   .0077    .035            TRAP     3.5     2.6
KK   245     SUB
KM      RUNOFF FROM SUB 245
BA .0235
LS            77      36
UK   130    .004     .09     100
RK  1320    .004    .024            TRAP      10      25
KK   247      CP
KM      COMBINE CP 246 WITH SUB 245
HC     2
KK   248      CP
KM      ROUTE CP 247 TO CP 248
RK   580    .004    .035            TRAP     3.5     2.6
KK   180     SUB
KM      RUNOFF FROM SUB 180
BA .189
LS            77
UK   400   .0082      .1     100
RK  1600    .004    .035            TRAP       5       2
KK   255     SUB
KM      RUNOFF FROM SUB 255
BA .0290
LS            77      36
UK   135    .004     .09     100
RK   780    .004    .024   .0079    TRAP      10      25
RK   800    .004    .024            TRAP      10      50
KK   236      CP
KM      ROUTE SUB 255 TO CP 236
RK   680    .004    .024            TRAP      10      50
KK   235     SUB
KM      RUNOFF FROM SUB 235
BA .0136
LS            77      36
UK   140    .004     .09     100
RK   800    .004    .024            TRAP      10      25
KK   237      CP
KM      COMBINE CP 236 WITH SUB 235
HC     2
KK   181      CP
KM      ROUTE CP 237 TO CP 181
RK  1160    .004    .024            TRAP      10      25
KK   182      CP
KM      COMBINE CP 248 WITH CP 181 AND SUB 180
HC     3
KK   191      CP
KM      ROUTE CP 182 TO CP 191
RK  1320    .004    .024            TRAP       4     2.6
KK   195     SUB
KM      RUNOFF FROM SUB 195
BA .0393
LS            77      85
UK    80   .0082     .09     100
```

```
RK  1000    .004    .024            TRAP      10      25
KK   186      CP
KM      ROUTE SUB 195 TO CP 186
RK  1040    .004    .024            TRAP      10      25
KK   185     SUB
KM      RUNOFF FROM SUB 185
BA .0241
LS            77      85
UK    80   .0082     .09     100
RK  1040    .004    .024            TRAP      10      25
KK   187      CP
KM      COMBINE SUB 185 WITH CP 186
HC     2
KK   188      CP
KM      ROUTE CP 187 TO CP 188
RK   680    .004    .024            TRAP      10      50
KK   189      CP
KM      COMBINE CP 188 & CP 191
HC     2
KK  DAM1
KM      ROUTE CP 189 THROUGH RETENTION BASIN 1
RS     1    STOR
SV     0     5.6    11.2
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   190     SUB
KM      RUNOFF FROM SUB 190
BA .0321
LS            77
UK  1230  .00625      .1     100
RK   600    .004    .035            TRAP      10     100
KK   192      CP
KM      COMBINE OUTFLOW FROM DAM 1 WITH SUB 190
HC     2
KK   211      CP
KM      ROUTE CP 192 TO CP 211
RK  1320    .004    .035            TRAP      10       2
KK   210     SUB
KM      RUNOFF FROM SUB 210
BA .0224
LS            77      45
UK   153    .004     .09     100
RK  1200    .004    .024            TRAP      10      25
KK   212      CP
KM      COMBINE SUB 210 WITH CP 211
HC     2
KK   213     DIV
KM      DIVERT CP 212 TO SUB 430
DT   429
DI     2      50     500    1000
DQ     1      25     250     500
KK   405     SUB
KM      RUNOFF FROM SUB 405 AND ROUTE DIV 213
BA .0133
LS            77
UK   200   .0057     .10     100
RK  1200   .0050    .045            TRAP       5      10     YES
KK   200     SUB
KM      RUNOFF FROM SUB 200
```

```
BA .0416
LS            77      13
UK   260    .005     .10     100
RK  1640    .004    .024            TRAP      10      50
KKDAM200
KM      ROUTE SUB 200 THROUGH RETENTION BASIN
RS     1    STOR
SV     0    .125     .25
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   415     SUB
KM      RUNOFF FROM SUB 415 AND ROUTE DAM 200
BA .0072
LS            77
UK   200   .0057     .10     100
RK   600   .0100    .045            TRAP       5       1     YES
KK   135     SUB
KM      RUNOFF FROM SUB 135
BA .0253
LS            77      85
UK   390    .005     .09     100
RK  1160    .004    .024            TRAP      10      50
KKDAM135
KM      ROUTE SUB 135 THROUGH RETENTION BASIN
RS     1    STOR
SV     0    .505    1.01
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   425     SUB
KM      RUNOFF FROM SUB 425 AND ROUTE DAM 135
BA .0108
LS            77
UK   200   .0057     .10     100
RK   600   .0083    .045            TRAP       5       1     YES
KK   426      CP
KM      COMBINE SUB 405, SUB 415 AND SUB 425
HC     3
KK   400     SUB
KM      RUNOFF FROM SUB 400 AND ROUTE CP 426
BA .1483
LS            81
UK  1000   .0057     .10     100
RK  3250   .0046    .045            TRAP       5      10     YES
KK   402      CP
KM      COMBINE SUB 400 WITH CP 401
HC     2
KK   501      CP
KM      ROUTE CP 402 TO CP 501
RK   790   .0038    .012            TRAP      20       1
KK   500     SUB
KM      RUNOFF FROM SUB 500 AND ROUTE CP 501
BA .1205
LS            84
UK  1000   .0057     .10     100
RK  3160   .0038    .012            TRAP      25       1     YES
KK   429     RET
KM      RETRIEVE DIVERT FROM CP 212
DR   429
```

```
KK   430     SUB
KM      RUNOFF FROM SUB 430 AND ROUTE RET 429
BA .1849
LS            82
UK  1025   .0057     .10     100
RK  5500   .0053    .045            TRAP      5       7     YES
KK   440     SUB
KM      RUNOFF FROM SUB 440
BA .1004
LS            83
UK  1200   .0057     .10     100
RK  3100   .0055    .045            TRAP      5       5
KK   441      CP
KM      COMBINE SUB 430 WITH SUB 440
HC     2
KK   502      CP
KM      ROUTE CP 441 TO CP 502
RK  1550   .0045    .045            TRAP      5      10
KK   503      CP
KM      COMBINE SUB 500 WITH CP 502
HC     2
KK   560     SUB
KM      RUNOFF FROM SUB 560 & ROUTE CP 503
BA .0890
LS            78
UK   500   .0057     .10     100
RK  1700   .0047    .045   .0890    TRAP      5       5
RK  2000   .0045    .012            TRAP     25       1     YES
KK   551      CP
KM      ROUTE SUB 560 TO CP 551
RK  2120   .0047    .012            TRAP     25       1
*
* insert the submodel 28-310 from Scottsdale Study
*
*
* 28-310
*
KK280010   BASIN
BA 0.007
PH  0.00    0.00    0.73    1.44    2.44    2.72    2.90    3.25
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   728  0.0081    0.03            TRAP      26     1.0
RK   819  0.0059    0.03            TRAP      26     1.0
KK280020    FROM  280010
RK   500  0.0500   0.013            CIRC     2.0
KK280030    FROM  280020
RK   500  0.0245   0.013            CIRC     3.0
KK280040    FROM  280030
RK   500  0.0059   0.025            TRAP     6.0     2.0
KK280040   BASIN
BA 0.020
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   718  0.0059    0.03            TRAP      26     1.0
RK   691  0.0081    0.03            TRAP      30     1.0
KK280040 COMBINE
HC     2
```

```
KK280050    FROM  280040
RK   500  0.0252   0.013            CIRC     2.3
KK280060    FROM  280050
RK   500  0.0081   0.030            TRAP     3.0     1.0
KK280060   BASIN
BA 0.001
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   191  0.0081    0.03            TRAP      30     1.0
KK280060 COMBINE
HC     2
KK280070    FROM  280060
RK   500  0.0081   0.013            CIRC     1.5
KK280080    FROM  280070
RK   819  0.0081   0.030            TRAP     3.0     1.0
KK280080   BASIN
BA 0.014
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   728  0.0059    0.03            TRAP      30     1.0
RK   819  0.0081    0.03            TRAP      30     1.0
KK280080 COMBINE
HC     2
KK280410   BASIN
BA 0.010
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      15
UK    50  0.0100    0.10      85
RK  1320  0.0081    0.03            TRAP      30     1.0
KK280420    FROM  280410
RK   500  0.0105   0.013            CIRC     2.0
KK280080    FROM  280420
RK   728  0.0081   0.030            TRAP     3.0     1.0
KK280080 COMBINE
HC     2
KK280090    FROM  280080
RK   500  0.0081   0.013            CIRC     1.5
KK280100    FROM  280090
RK   830  0.0081   0.030            TRAP     3.0     1.0
KK280100   BASIN
BA 0.022
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   908  0.0059    0.03            TRAP      26     1.0
RK   830  0.0081    0.03            TRAP      30     1.0
KK280100 COMBINE
HC     2
KK280110    FROM  280100
RK   500  0.0075   0.013            CIRC     3.5
KK280510   BASIN
BA 0.028
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   525  0.0081    0.02            TRAP      30     1.0
RK  1674  0.0059    0.02            TRAP      30     1.0
KK280520    FROM  280510
```

```
RK   772  0.0081   0.017            TRAP    82.5      1
KK280520   BASIN
BA 0.031
LS     0      77       0       0      98       0
UK   200  0.0100    0.30      28
UK   200  0.0100    0.10      72
RK   617  0.0081    0.02            TRAP      30     1.0
RK  1326  0.0059    0.03            TRAP      30     1.0
KK280520 COMBINE
HC     2
KK280530    FROM  280520
RK   744  0.0059   0.030            TRAP     3.0     1.0
KK280530   BASIN
BA 0.006
LS     0      77       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   745  0.0081    0.03            TRAP      26     1.0
KK280530 COMBINE
HC     2
KK280540    FROM  280530
RK   500  0.0141   0.013            CIRC     2.5
KK280110    FROM  280540
RK   697  0.0059   0.030            TRAP    10.0     2.0
KK280110 COMBINE
HC     2
KK280120    FROM  280110
RK  1112  0.0059   0.030            TRAP     3.0     1.0
KK280120   BASIN
BA 0.022
LS     0      74       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  1693  0.0081    0.03            TRAP      30     1.0
KK280120 COMBINE
HC     2
KK280610   BASIN
BA 0.062
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   518  0.0081    0.02            TRAP      30     1.0
RK  1830  0.0059    0.03            TRAP      30     1.0
KK280610 STORAGE
RS     1    STOR
SV  0.00    0.47    1.25    2.27    3.49    4.75    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    3.00    4.00    5.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00
ST   4.0      50     3.0     1.5
KK280620    FROM  280610
RK  1317  0.0059   0.017            TRAP    41.3      1
KK280620   BASIN
BA 0.028
LS     0      77       0       0      98       0
UK   200  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK   798  0.0081    0.03            TRAP      41     1.0
RK  4568  0.0059    0.02            TRAP      49     1.0
KK280620 COMBINE
HC     2
```

```
KK280810   BASIN
BA 0.044
LS     0      77       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1260  0.0059    0.02             TRAP      30     1.0
RK  1379  0.0081    0.03             TRAP      30     1.0
KK280820    FROM  280810
RK   500  0.0059   0.013             CIRC     3.0
KK280620    FROM  280820
RK   502  0.0081   0.030             TRAP     3.0     1.0
KK280620 COMBINE
HC     2
KK280630    FROM  280620
RK   500  0.0081   0.013             CIRC     4.0
KK280910   BASIN
BA 0.002
LS     0      77       0       0      98       0
UK   200  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK   276  0.0081    0.03             TRAP      19     1.0
KK280920    FROM  280910
RK   500  0.0084   0.013             CIRC     3.0
KK280630    FROM  280920
RK   500  0.0059   0.030             TRAP    10.0     2.0
KK280630 COMBINE
HC     2
KK280640    FROM  280630
RK   500  0.0059   0.030             TRAP    10.0     2.0
KK281010   BASIN
BA 0.024
LS     0      77       0       0      98       0
UK   200  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK  1340  0.0081    0.03             TRAP      30     1.0
KK280640    FROM  281010
RK   500  0.0081   0.013             CIRC     3.0
KK280640 COMBINE
HC     2
KK280650    FROM  280640
RK  1014  0.0059   0.030             TRAP    10.0     2.0
KK280650   BASIN
BA 0.023
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  2102  0.0059    0.03             TRAP      26     1.0
RK  1014  0.0081    0.03             TRAP      26     1.0
KK280650 COMBINE
HC     2
KK280660    FROM  280650
RK   906  0.0059   0.030             TRAP    10.0     2.0
KK280660   BASIN
BA 0.014
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK   814  0.0081    0.03             TRAP      26     1.0
RK   906  0.0059    0.03             TRAP      26     1.0
KK280660 COMBINE
```

```
HC      2
KK281110   BASIN
BA 0.024
LS      0      77       0       0      98       0
UK    200  0.0100    0.30      28
UK    200  0.0100    0.10      72
RK    720  0.0081    0.02            TRAP      26     1.0
RK   1188  0.0059    0.03            TRAP      26     1.0
KK281120    FROM  281110
RK    950  0.0059   0.030            TRAP    10.0     2.0
KK281120   BASIN
BA 0.020
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      15
UK     50  0.0100    0.10      85
RK    950  0.0081    0.03            TRAP      26     1.0
RK    974  0.0059    0.03            TRAP      26     1.0
KK281120 COMBINE
HC      2
KK281210   BASIN
BA 0.066
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   2767  0.0059    0.03            TRAP      26     1.0
KK281120    FROM  281210
RK    830  0.0059   0.030            TRAP    10.0     2.0
KK281120 COMBINE
HC      2
KK281310   BASIN
BA 0.026
LS      0      77       0       0      98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK   3211  0.0059    0.03            TRAP      26     1.0
KK281320    FROM  281310
RK    500  0.0059   0.013            CIRC     2.0
KK281120    FROM  281320
RK    974  0.0059   0.030            TRAP    10.0     2.0
KK281120 COMBINE
HC      2
KK281130    FROM  281120
RK   1128  0.0059   0.030            TRAP    10.0     2.0
KK281130   BASIN
BA 0.038
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      15
UK     50  0.0100    0.10      85
RK   1931  0.0081    0.03            TRAP      26     1.0
RK   1128  0.0059    0.03            TRAP      26     1.0
KK281130 COMBINE
HC      2
KK281140    FROM  281130
RK    500  0.0059   0.013            CIRC     2.0
KK281140   BASIN
BA 0.016
LS      0      77       0       0      98       0
UK    200  0.0100    0.30      15
UK    200  0.0100    0.10      85
RK   2112  0.0059    0.03            TRAP      26     1.0
```

```
KK281140 COMBINE
HC      2
KK280660     FROM  281140
RK    814  0.0059   0.030            TRAP    10.0     2.0
KK280660 COMBINE
HC      2
KK280120 COMBINE
HC      2
KK280120     FROM  280660
RK    500  0.0059   0.030            TRAP    10.0     2.0
KK280130     FROM  280120
RK   1100  0.0059   0.030            TRAP     3.0     1.0
KK280130    BASIN
BA 0.042
LS      0      70       0       0     98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    906  0.0081    0.03            TRAP      26     1.0
RK   1100  0.0059    0.03            TRAP      30     1.0
KK280130 COMBINE
HC      2
KK280140     FROM  280130
RK    500  0.0059   0.013            CIRC     2.0
KK280150     FROM  280140
RK   1242  0.0059   0.030            TRAP     3.0     1.0
KK280150    BASIN
BA 0.048
LS      0      69       0       0     98       0
UK    300  0.0100    0.20      85
UK    100  0.0100    0.10      15
RK    892  0.0081    0.03            TRAP      26     1.0
RK   1242  0.0059    0.03            TRAP      30     1.0
KK280150 COMBINE
HC      2
KK280160     FROM  280150
RK   1971  0.0059   0.030            TRAP    40.0     1.0
KK280160    BASIN
BA 0.018
LS      0      69       0       0     98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1971  0.0059    0.03            TRAP      30     1.0
KK280160 COMBINE
HC      2
KK281410    BASIN
BA 0.039
LS      0      77       0       0     98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    578  0.0081    0.03            TRAP      26     1.0
RK   1398  0.0059    0.03            TRAP      34     1.0
KK281420     FROM  281410
RK   1117  0.0081   0.030            TRAP    10.0     1.0
KK281420    BASIN
BA 0.021
LS      0      77       0       0     98       0
UK     20  0.0100    0.40       6
UK    200  0.0100    0.10      94
RK    814  0.0059    0.02            TRAP      26     1.0
RK   1117  0.0081    0.03            TRAP      30     1.0
```

```
KK281420 COMBINE
HC      2
KK281430     FROM  281420
RK   1244  0.0059   0.030            TRAP    10.0     1.0
KK281430   BASIN
BA 0.064
LS      0      77       0       0     98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1467  0.0081    0.02            TRAP      26     1.0
RK   1244  0.0059    0.03            TRAP      30     1.0
KK281430 COMBINE
HC      2
KK281440     FROM  281430
RK   1616  0.0059   0.030            TRAP    10.0     1.0
KK281440   BASIN
BA 0.064
LS      0      77       0       0     98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1107  0.0081    0.03            TRAP      26     1.0
RK   1616  0.0059    0.03            TRAP      30     1.0
KK281440 COMBINE
HC      2
KK281450     FROM  281440
RK    916  0.0059   0.030            TRAP    10.0     1.0
KK281450   BASIN
BA 0.044
LS      0      77       0       0     98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1499  0.0081    0.02            TRAP      26     1.0
RK    916  0.0059    0.03            TRAP      30     1.0
KK281450 COMBINE
HC      2
KK280160     FROM  281450
RK    500  0.0059   0.013            CIRC     3.0
KK280160 COMBINE
HC      2
KK280170     FROM  280160
RK    500  0.0059   0.015            DEEP     8.0
KK280180     FROM  280170
RK    920  0.0059   0.030            TRAP    40.0     1.0
KK281510   BASIN
BA 0.018
LS      0      77       0       0     98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    289  0.0081    0.03            TRAP      26     1.0
RK   1319  0.0059    0.03            TRAP      49     1.0
KK281520     FROM  281510
RK    500  0.0081   0.013            CIRC     1.5
KK281530     FROM  281520
RK   1748  0.0081   0.030            TRAP    10.0     2.0
KK281530   BASIN
BA 0.045
LS      0      77       0       0     98       0
UK    200  0.0100    0.30      15
UK    200  0.0100    0.10      85
RK   1748  0.0081    0.03            TRAP      30     1.0
```

```
RK  1443  0.0059    0.03            TRAP      30     1.0
KK281530 COMBINE
HC      2
KK281710   BASIN
BA 0.031
LS      0      77       0       0      98       0
UK     20  0.0100    0.40       6
UK    200  0.0100    0.10      94
RK  1579  0.0059    0.03            TRAP      30     1.0
KK281720    FROM  281710
RK    500  0.0081   0.013            CIRC     1.5
KK281530    FROM  281720
RK  1443  0.0059   0.030            TRAP    10.0     2.0
KK281530 COMBINE
HC      2
KK281540    FROM  281530
RK  1828  0.0059   0.025            TRAP    15.0     1.0
KK281540   BASIN
BA 0.035
LS      0      77       0       0      98       0
UK    200  0.0100    0.30      15
UK    200  0.0100    0.10      85
RK    386  0.0081    0.03            TRAP      23     1.0
RK  1828  0.0059    0.03            TRAP      30     1.0
KK281540 COMBINE
HC      2
KK281540 STORAGE
RS      1    STOR
SV   0.00    1.55    2.20    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    2.0     150     3.0     1.5
KK281550    FROM  281540
RK    500  0.0059   0.017            TRAP    30.0       1
KK281550   BASIN
BA 0.010
LS      0      77       0       0      98       0
UK    200  0.0100    0.30      15
UK    200  0.0100    0.10      85
RK    986  0.0059    0.03            TRAP      30     1.0
KK281550 COMBINE
HC      2
KK281810   BASIN
BA 0.005
LS      0      77       0       0      98       0
UK    200  0.0100    0.30      15
UK    200  0.0100    0.10      85
RK    989  0.0081    0.02            TRAP      30     1.0
KK281810 STORAGE
RS      1    STOR
SV   0.00    0.75    1.20    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    2.0      25     3.0     1.5
KK281550    FROM  281810
RK    500  0.0081   0.017            TRAP    30.0       1
KK281550 COMBINE
HC      2
KK281560    FROM  281550
RK    500  0.0059   0.017            TRAP    30.0       1
```

```
KK281560   BASIN
BA 0.009
LS      0      77       0       0      98       0
UK    200  0.0100    0.30      15
UK    200  0.0100    0.10      85
RK   1825  0.0081    0.02            TRAP      23     1.0
RK    447  0.0059    0.02            TRAP      23     1.0
KK281560 COMBINE
HC      2
KK281910   BASIN
BA 0.048
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1263  0.0059    0.03            TRAP      30     1.0
RK   2201  0.0081    0.02            TRAP      30     1.0
KK281560    FROM  281910
RK   1825  0.0081   0.017            TRAP    30.0       1
KK281560 COMBINE
HC      2
KK281570    FROM  281560
RK    500  0.0081   0.017            TRAP    30.0       1
KK281570   BASIN
BA 0.022
LS      0      77       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK   3854  0.0059    0.02            TRAP      26     1.0
RK    361  0.0081    0.02            TRAP      30     1.0
KK281570 COMBINE
HC      2
KK281580    FROM  281570
RK   3057  0.0081   0.030            TRAP    20.0     1.0
KK281580   BASIN
BA 0.014
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   3057  0.0059    0.03            TRAP      30     1.0
KK281580 COMBINE
HC      2
KK280180    FROM  281580
RK    500  0.0059   0.013            CIRC     3.0
KK280180 COMBINE
HC      2
KK280190    FROM  280180
RK    661  0.0059   0.030            TRAP    40.0     1.0
KK282010   BASIN
BA 0.091
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   4082  0.0081    0.02            TRAP      30     1.0
RK   3018  0.0059    0.02            TRAP      83     1.0
KK280190    FROM  282010
RK    500  0.0440   0.013            CIRC     2.0
KK280190 COMBINE
HC      2
KK280200    FROM  280190
RK   1805  0.0059   0.030            TRAP   100.0     1.0
```

```
KK  CAP1
BA     0
QI  215.    215.    215.    215.    215.    215.    215.    215.    215.    215.
QI  215.    215.    215.    215.    215.    215.    215.    215.    215.    215.
QI  215.
KK282110   BASIN
BA 0.001
LS     0      65       0       0      98       0
UK   150  0.0100    0.30      98
UK    50  0.0100    0.10       2
RK   100  0.0059    0.03            TRAP      30     1.0
KK282110 COMBINE
HC     2
KK282120    FROM  282110
RK  1000  0.0059   0.030            TRAP    20.0     2.0
KK282120   BASIN
BA 0.015
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   691  0.0081    0.02            TRAP      23     1.0
RK   564  0.0059    0.03            TRAP      30     1.0
KK282120 COMBINE
HC     2
KK282130    FROM  282120
RK  1000  0.0081   0.013            CIRC     1.5
KK282140    FROM  282130
RK  1000  0.0081   0.030            TRAP    10.0     2.0
KK282140   BASIN
BA 0.010
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   328  0.0081    0.03            TRAP      30     1.0
RK   532  0.0059    0.03            TRAP      30     1.0
KK282140 COMBINE
HC     2
KK282150    FROM  282140
RK   500  0.0081   0.013            CIRC     1.5
KK282310   BASIN
BA 0.043
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK   645  0.0081    0.02            TRAP      30     1.0
RK  1398  0.0059    0.02            TRAP      30     1.0
KK282310 STORAGE
RS     1    STOR
SV  0.00    0.54    1.64    2.94    4.41    6.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    3.00    4.00    5.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00
ST   4.0     230     3.0     1.5
KK282320    FROM  282310
RK   774  0.0059   0.030            TRAP    20.0     2.0
KK282320   BASIN
BA 0.040
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  2013  0.0081    0.02            TRAP      41     1.0
```

```
RK  1207  0.0059    0.02            TRAP     41     1.0
KK282320 COMBINE
HC     2
KK282410   BASIN
BA 0.032
LS     0      77       0       0     98      0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  2797  0.0081    0.02            TRAP     30     1.0
KK282320    FROM  282410
RK   696  0.0059   0.030            TRAP   20.0     2.0
KK282320 COMBINE
HC     2
KK282320 STORAGE
RS     1    STOR
SV  0.00    2.23    3.20    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   2.0     100     3.0     1.5
KK282330    FROM  282320
RK   542  0.0059   0.017            TRAP   30.0       1
KK282330   BASIN
BA 0.007
LS     0      77       0       0     98      0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   538  0.0081    0.02            TRAP     30     1.0
RK   542  0.0059    0.02            TRAP     30     1.0
KK282330 COMBINE
HC     2
KK282150    FROM  282330
RK   500  0.0059   0.017            TRAP   33.8       1
KK282150 COMBINE
HC     2
KK282160    FROM  282150
RK  2248  0.0081   0.030            TRAP   20.0     2.0
KK282160   BASIN
BA 0.117
LS     0      77       0       0     98      0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  1189  0.0059    0.02            TRAP     26     1.0
RK  2248  0.0081    0.03            TRAP     26     1.0
KK282160 COMBINE
HC     2
KK282170    FROM  282160
RK   500  0.0081   0.013            CIRC    1.5
KK282180    FROM  282170
RK   500  0.0081   0.030            TRAP   10.0     2.0
KK282180   BASIN
BA 0.006
LS     0      77       0       0     98      0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  1656  0.0081    0.02            TRAP     30     1.0
KK282180 COMBINE
HC     2
KK282190    FROM  282180
RK   500  0.0081   0.013            CIRC    1.5
KK282510   BASIN
```

```
BA 0.129
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   7168  0.0081    0.03            TRAP      34     1.0
KK282520    FROM  282510
RK    500  0.0081   0.013            CIRC     1.5
KK282530    FROM  282520
RK    995  0.0081   0.030            TRAP    10.0     2.0
KK282530   BASIN
BA 0.045
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    881  0.0081    0.02            TRAP      26     1.0
RK    995  0.0059    0.02            TRAP      30     1.0
KK282530 COMBINE
HC      2
KK282190    FROM  282530
RK    500  0.0059   0.017            TRAP    37.5       1
KK282190 COMBINE
HC      2
KK282200    FROM  282190
RK   2493  0.0081   0.030            TRAP    30.0     1.0
KK282200   BASIN
BA 0.090
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   1620  0.0081    0.03            TRAP      30     1.0
RK   2493  0.0059    0.03            TRAP      30     1.0
KK282200 COMBINE
HC      2
KK282610   BASIN
BA 0.059
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    609  0.0059    0.02            TRAP      30     1.0
RK   1386  0.0081    0.03            TRAP      30     1.0
KK282620    FROM  282610
RK   2411  0.0081   0.030            TRAP    10.0     2.0
KK282620   BASIN
BA 0.158
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   4296  0.0059    0.03            TRAP      23     1.0
RK   2411  0.0081    0.03            TRAP      30     1.0
KK282620 COMBINE
HC      2
KK282630    FROM  282620
RK    500  0.0081   0.013            CIRC     1.5
KK282640    FROM  282630
RK    904  0.0081   0.030            TRAP    10.0     2.0
KK282640   BASIN
BA 0.022
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
```

```
RK   810  0.0081    0.03            TRAP      26     1.0
RK   904  0.0059    0.02            TRAP      30     1.0
KK282640 COMBINE
HC     2
KK282650    FROM  282640
RK   500  0.0081   0.013            CIRC     1.5
KK282200    FROM  282650
RK  1620  0.0081   0.030            TRAP    20.0     1.0
KK282200 COMBINE
HC     2
KK282210    FROM  282200
RK   500  0.0059   0.013            CIRC     1.5
KK282220    FROM  282210
RK  1828  0.0059   0.030            TRAP    30.0     1.0
KK282220   BASIN
BA 0.105
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  1955  0.0081    0.03            TRAP      23     1.0
RK  1828  0.0059    0.03            TRAP      30     1.0
KK282220 COMBINE
HC     2
KK282710   BASIN
BA 0.205
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  2153  0.0059    0.02            TRAP      26     1.0
RK  3153  0.0081    0.03            TRAP      30     1.0
KK282720    FROM  282710
RK  3137  0.0081   0.030            TRAP    10.0     2.0
KK282720   BASIN
BA 0.148
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   877  0.0059    0.02            TRAP      26     1.0
RK  3137  0.0081    0.03            TRAP      30     1.0
KK282720 COMBINE
HC     2
KK282220    FROM  282720
RK  1955  0.0081   0.030            TRAP    10.0     2.0
KK282220 COMBINE
HC     2
KK282230    FROM  282220
RK  1310  0.0081   0.030            TRAP    30.0     1.0
KK282230   BASIN
BA 0.259
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  2952  0.0081    0.03            TRAP      26     1.0
RK  2655  0.0059    0.03            TRAP      30     1.0
KK282230 COMBINE
HC     2
KK282240    FROM  282230
RK   500  0.0081   0.015            DEEP    10.0
KK282810   BASIN
BA 0.050
```

```
LS     0      77      0      0     98      0
UK   150  0.0100   0.30     46
UK    50  0.0100   0.10     54
RK  1015  0.0059   0.02           TRAP     19    1.0
RK  1806  0.0081   0.03           TRAP     26    1.0
KK282810 STORAGE
RS     1    STOR
SV  0.00    0.59   1.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00
SE  0.00    2.00   3.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00
SQ  0.00    0.01   0.01   0.00   0.00   0.00   0.00   0.00   0.00   0.00
ST   2.0     100    3.0    1.5
KK282820    FROM 282810
RK  2649  0.0081  0.017           TRAP   41.3      1
KK282820   BASIN
BA 0.086
LS     0      77      0      0     98      0
UK   150  0.0100   0.30     65
UK    50  0.0100   0.10     35
RK   862  0.0059   0.02           TRAP     26    1.0
RK  2649  0.0081   0.02           TRAP     19    1.0
KK282820 COMBINE
HC     2
KK282830    FROM 282820
RK   500  0.0234  0.013           CIRC    2.5
KK282840    FROM 282830
RK   511  0.0050  0.030           TRAP    8.0    3.0
KK282840   BASIN
BA 0.021
LS     0      77      0      0     98      0
UK   150  0.0100   0.30     76
UK    50  0.0100   0.10     24
RK  1354  0.0081   0.03           TRAP     26    1.0
KK282840 COMBINE
HC     2
KK283010   BASIN
BA 0.033
LS     0      77      0      0     98      0
UK   150  0.0100   0.30     65
UK    50  0.0100   0.10     35
RK   810  0.0081   0.02           TRAP     26    1.0
RK  1035  0.0059   0.02           TRAP     26    1.0
KK283010 STORAGE
RS     1    STOR
SV  0.00    0.49   1.28   2.00   0.00   0.00   0.00   0.00   0.00   0.00
SE  0.00    2.00   4.00   5.00   0.00   0.00   0.00   0.00   0.00   0.00
SQ  0.00    0.01   0.01   0.01   0.00   0.00   0.00   0.00   0.00   0.00
ST   4.0     100    3.0    1.5
KK283020    FROM 283010
RK   500  0.0081  0.030           TRAP   10.0    2.0
KK283020   BASIN
BA 0.009
LS     0      77      0      0     98      0
UK   150  0.0100   0.30     65
UK    50  0.0100   0.10     35
RK   491  0.0081   0.02           TRAP     26    1.0
RK  1189  0.0059   0.02           TRAP     26    1.0
KK283020 COMBINE
HC     2
KK283020 STORAGE
RS     1    STOR
```

```
SV  0.00    0.21    0.60    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    3.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   2.0      25     3.0     1.5
KK283030    FROM  283020
RK   981  0.0081   0.017            TRAP    41.3       1
KK283030   BASIN
BA 0.078
LS     0      77       0       0      98       0
UK   200  0.0100    0.30      28
UK   200  0.0100    0.10      72
RK  2650  0.0081    0.02            TRAP      26     1.0
RK  1932  0.0059    0.02            TRAP      26     1.0
KK283030 COMBINE
HC     2
KK283040    FROM  283030
RK  2064  0.0081   0.030            TRAP    10.0     1.0
KK283040   BASIN
BA 0.041
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   463  0.0081    0.02            TRAP      26     1.0
RK  2064  0.0059    0.03            TRAP      30     1.0
KK283040 COMBINE
HC     2
KK283050    FROM  283040
RK   500  0.0148   0.013            CIRC     3.0
KK282840    FROM  283050
RK   500  0.0059   0.030            TRAP    15.0     1.0
KK282840 COMBINE
HC     2
KK282840 STORAGE
RS     1    STOR
SV  0.00    1.78    4.89    8.92   14.06   20.72   22.00    0.00    0.00    0.00
SE  0.00    4.00    8.00   12.00   16.00   20.00   21.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.01    0.01    0.01    0.00    0.00    0.00
ST  20.0      40     3.0     1.5
KK282850    FROM  282840
RK  1372  0.0081   0.030            TRAP    10.0     2.0
KK282850   BASIN
BA 0.047
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  1425  0.0059    0.03            TRAP      26     1.0
RK  1372  0.0081    0.03            TRAP      26     1.0
KK282850 COMBINE
HC     2
KK282860    FROM  282850
RK  1449  0.0081   0.030            TRAP    10.0     2.0
KK282860   BASIN
BA 0.019
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  1668  0.0081    0.03            TRAP      26     1.0
RK  1449  0.0081    0.03            TRAP      26     1.0
KK282860 COMBINE
HC     2
```

```
KK283110   BASIN
BA 0.074
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   1865  0.0081    0.03            TRAP      23     1.0
RK   1170  0.0059    0.02            TRAP      23     1.0
KK283120    FROM  283110
RK    500  0.0080   0.030            TRAP     8.0     1.0
KK283120   BASIN
BA 0.046
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   2734  0.0081    0.02            TRAP      26     1.0
KK283120 COMBINE
HC      2
KK283120 STORAGE
RS      1    STOR
SV   0.00    0.33    1.05    1.99    3.09    4.37    5.85    7.61    8.75    0.00
SE   0.00    2.00    4.00    6.00    8.00   10.00   12.00   14.00   15.00    0.00
SQ   0.00    0.01    0.01    0.01    0.01    0.01    0.01    0.01    0.01    0.00
ST   14.0      30     3.0     1.5
KK282860    FROM  283120
RK   1668  0.0081   0.030            TRAP    10.0     2.0
KK282860 COMBINE
HC      2
KK282870    FROM  282860
RK    513  0.0081   0.030            TRAP    10.0     2.0
KK282870   BASIN
BA 0.031
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   1508  0.0081    0.03            TRAP      26     1.0
RK    513  0.0059    0.03            TRAP      30     1.0
KK282870 COMBINE
HC      2
KK282880    FROM  282870
RK    500  0.0081   0.013            CIRC     1.5
KK282890    FROM  282880
RK    818  0.0081   0.030            TRAP    10.0     1.0
KK282890   BASIN
BA 0.125
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   2769  0.0059    0.02            TRAP      30     1.0
RK    818  0.0081    0.03            TRAP      30     1.0
KK282890 COMBINE
HC      2
KK282900    FROM  282890
RK   1494  0.0081   0.030            TRAP    10.0     2.0
KK282900   BASIN
BA 0.047
LS      0      77       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK    561  0.0059    0.03            TRAP      26     1.0
RK   1494  0.0081    0.03            TRAP      30     1.0
```

```
KK282900 COMBINE
HC      2
KK282910    FROM  282900
RK  1422  0.0081   0.030            TRAP    20.0     1.0
KK282910   BASIN
BA 0.068
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   751  0.0059    0.02            TRAP      26     1.0
RK  1422  0.0081    0.03            TRAP      30     1.0
KK282910 COMBINE
HC      2
KK282230    FROM  282910
RK   500  0.0059   0.030            TRAP    10.0     1.0
KK282230 COMBINE
HC      2
KK282240    FROM  282230
RK   500  0.0081   0.015            DEEP    10.0
KK283210   BASIN
BA 0.018
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  1499  0.0081    0.03            TRAP      26     1.0
RK  1198  0.0059    0.03            TRAP      30     1.0
KK283220    FROM  283210
RK  1597  0.0081   0.030            TRAP    10.0     2.0
KK283220   BASIN
BA 0.052
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK   984  0.0059    0.02            TRAP      26     1.0
RK  1608  0.0081    0.02            TRAP      26     1.0
KK283220 COMBINE
HC      2
KK283230    FROM  283220
RK   500  0.0081   0.013            CIRC     2.0
KK283240    FROM  283230
RK   916  0.0081   0.030            TRAP    10.0     2.0
KK283240   BASIN
BA 0.069
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  1244  0.0059    0.03            TRAP      26     1.0
RK   916  0.0081    0.03            TRAP      26     1.0
KK283240 COMBINE
HC      2
KK283250    FROM  283240
RK   500  0.0081   0.015            DEEP    10.0
KK283260    FROM  283250
RK  2496  0.0081   0.030            TRAP    20.0     2.0
KK283260   BASIN
BA 0.152
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  1334  0.0059    0.02            TRAP      30     1.0
```

```
RK  2496  0.0081    0.03            TRAP      26     1.0
KK283260 COMBINE
HC     2
KK283270    FROM  283260
RK   500  0.0081   0.015            DEEP    10.0
KK283280    FROM  283270
RK  2455  0.0059   0.030            TRAP    50.0     2.0
KK283280   BASIN
BA 0.017
LS     0      69       0       0      98       0
UK   150  0.0100    0.30      76
UK    50  0.0100    0.10      24
RK  2455  0.0059    0.03            TRAP      56     1.0
KK283280 COMBINE
HC     2
KK282240    FROM  283280
RK   500  0.0059   0.015            DEEP    10.0
KK282240 COMBINE
HC     2
KK280200    FROM  282240
RK  2719  0.0059   0.030            TRAP   150.0     1.0
KK280200   BASIN
BA 0.298
LS     0      69       0       0      98       0
UK   300  0.0100    0.20      20
UK   100  0.0100    0.10      80
RK  3149  0.0059    0.03            TRAP      30     1.0
RK  2719  0.0081    0.03            TRAP      34     1.0
KK280200 COMBINE
HC     3
KK280200 STORAGE
RS     1    STOR
SV  0.00   89.61  186.81  292.15  292.15    0.00    0.00    0.00    0.00    0.00
SE  0.00    2.00    4.00    6.00    7.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00
ST   6.0     300     3.0     1.5
KK280210    FROM  280200
RK   500  0.0059   0.030            TRAP    40.0     2.0
KK280210   BASIN
BA 0.068
LS     0      69       0       0      98       0
UK   200  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK   753  0.0081    0.03            TRAP      23     1.0
RK  1220  0.0059    0.03            TRAP      30     1.0
KK280210 COMBINE
HC     2
KK283410   BASIN
BA 0.019
LS     0      69       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  1565  0.0059    0.03            TRAP      26     1.0
KK283420    FROM  283410
RK  1058  0.0081   0.017            TRAP    26.3       1
KK283420   BASIN
BA 0.060
LS     0      69       0       0      98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
```

```
RK  1444  0.0081    0.02            TRAP     26     1.0
RK  1254  0.0059    0.03            TRAP     26     1.0
KK283420 COMBINE
HC     2
KK283430    FROM  283420
RK  1327  0.0059   0.030            TRAP   10.0     2.0
KK283430   BASIN
BA 0.080
LS     0      69       0       0     98       0
UK   300  0.0100    0.20      85
UK   100  0.0100    0.10      15
RK  1397  0.0081    0.03            TRAP     26     1.0
RK  1327  0.0059    0.03            TRAP     26     1.0
KK283430 COMBINE
HC     2
KK283440    FROM  283430
RK  1729  0.0059   0.030            TRAP   20.0     2.0
KK283440   BASIN
BA 0.047
LS     0      69       0       0     98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1524  0.0081    0.02            TRAP     26     1.0
RK  1729  0.0059    0.03            TRAP     26     1.0
KK283440 COMBINE
HC     2
KK283610   BASIN
BA 0.055
LS     0      69       0       0     98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   703  0.0059    0.02            TRAP     26     1.0
RK  1335  0.0081    0.03            TRAP     30     1.0
KK283620    FROM  283610
RK   500  0.0081   0.013            CIRC    3.0
KK283440    FROM  283620
RK   500  0.0081   0.030            TRAP   20.0     2.0
KK283440 COMBINE
HC     2
KK283450    FROM  283440
RK   500  0.0081   0.030            TRAP   20.0     1.0
KK283450   BASIN
BA 0.001
LS     0      69       0       0     98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK   175  0.0059    0.03            TRAP     30     1.0
KK283450 COMBINE
HC     2
KK283460    FROM  283450
RK   500  0.0081   0.015            DEEP    8.0
KK283470    FROM  283460
RK   500  0.0081   0.030            TRAP   20.0     2.0
KK283470   BASIN
BA 0.022
LS     0      69       0       0     98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  1008  0.0059    0.02            TRAP     26     1.0
RK  2412  0.0081    0.02            TRAP     38     1.0
```

```
KK283470 COMBINE
HC     2
KK283480    FROM  283470
RK   500  0.0059   0.015            DEEP     8.0
KK280210    FROM  283480
RK  1220  0.0059   0.030            TRAP    20.0     2.0
KK280210 COMBINE
HC     2
KK280220    FROM  280210
RK  1465  0.0059   0.030            TRAP    40.0     2.0
*
*  ***********************************************************************
*
KK   300     SUB
KM      RUNOFF FROM SUB 300 & ROUTE CP 304
BA .134
LS            77      31
UK   270   .0033     .10     100
RK  1360   .0059    .035            TRAP      20       2     YES
*
*
KK  DAM7
KM      ROUTE SUB 300 THROUGH RETENTION BASIN 7
RS     1    STOR
SV     0    .325     .65
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   291      CP
KM      ROUTE OUTFLOW FROM DAM 7 TO CP 291
RK   650    .004    .035            TRAP      12       2
KK   290     SUB
KM      RUNOFF FROM SUB 290
BA .0154
LS            77      92
UK   100    .004     .09     100
RK   640    .004    .035            TRAP      12       2
KK  DAM6
KM      ROUTE SUB 290 THROUGH RETENTION BASIN 6
RS     1    STOR
SV     0      .8     1.6
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   292      CP
KM      COMBINE OUTFLOW FROM DAM 6 WITH CP 291
HC     2
KK   331      CP
KM      ROUTE CP 292 TO CP 331
RK   680    .004    .035            TRAP      12       2
KK   330     SUB
KM      RUNOFF FROM SUB 330
BA .0179
LS            77      92
UK   100    .004     .09     100
RK  1080    .004    .035            TRAP      12       2
KK  DAM2
KM      ROUTE SUB 330 THROUGH RETENTION BASIN 2
RS     1    STOR
SV     0      .8     1.6
```

All of Basin 28 from Scottsdale's model is not being used. Basins 29-31 of Scottsdale's model is not used. The outflow model is used for this portion. More consistent to use Scottsdale's model to the Reservation boundary & then use the outflow model.

```
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   332      CP
KM      COMBINE OUTFLOW FROM DAM 2 WITH CP 331
HC     2
KK   231      CP
KM      ROUTE CP 332 TO CP 231
RK   480    .004    .035            TRAP      12       2
KK   230     SUB
KM      RUNOFF FROM SUB 230
BA .0419
LS            77      60
UK   110    .004     .09     100
RK  1840    .004    .035            TRAP      12       2
KK   232      CP
KM      COMBINE SUB 230 WITH CP 231
HC     2
KK   233      CP
KM      ROUTE CP 232 TO CP 233
RK   380    .004    .035            TRAP      12       2
KK   220     SUB
KM      RUNOFF FROM SUB 220 AND ROUTE CP 233
BA .0810
LS            77      45
UK   135    .004     .09     100
RK   600    .004    .024   .0091    TRAP      10      25
RK  1440   .0044    .035            TRAP      25       4     YES
KK   445     SUB
KM      RUNOFF FROM SUB 445 AND ROUTE SUB 220
BA .0237
LS            77
UK   460   .0057     .10     100
RK   950   .0063    .045            TRAP       5       5     YES
KK   310     SUB
KM      RUNOFF FROM SUB 310
BA .0286
LS            77      41
UK   680    .004     .10     100
RK   680    .004    .024            TRAP       0      75
KK  DAM4
KM      ROUTE SUB 310 THROUGH RETENTION BASIN 4
RS     1    STOR
SV     0     1.8     3.6
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   320     SUB
KM      RUNOFF FROM SUB 320
BA .0166
LS            77      92
UK    80    .004     .09     100
RK   960    .004    .024    .009    TRAP      10      25
KK   322      CP
KM      COMBINE SUB 320 WITH CP 312
HC     2
*
KK  DAM3
KM      ROUTE CP 322 THROUGH RETENTION BASIN 3
RS     1    STOR
```

```
SV     0      .8     1.6
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   260     SUB
KM      RUNOFF FROM SUB 260 AND ROUTE OUTFLOW FROM DAM 3
BA .0448
LS            77      36
UK   120    .004     .09     100
RK  1000    .004    .024   .0256    TRAP      10      25
RK   800    .004    .035            TRAP       8       2     YES
KK   451      CP
KM      ROUTE SUB 260 TO CP 451
RK   760    .004    .035            TRAP       8       2
KK   450     SUB
KM      RUNOFF FROM SUB 450 AND ROUTE CP 451
BA .0255
LS            77
UK   350   .0057     .10     100
RK  1400   .0057    .045            TRAP       5       2     YES
KK   452      CP
KM      COMBINE SUB 450 WITH SUB 445
HC     2
KK   455     SUB
KM      RUNOFF FROM SUB 455 AND ROUTE CP 452
BA .0643
LS            81
UK   520   .0057     .10     100
RK  2450   .0057    .045            TRAP       5      10     YES
KK   280     SUB
KM      RUNOFF FROM SUB 280
BA .0599
LS            77      85
UK   165    .004     .09     100
RK  1600    .004    .024            TRAP      10      50
KK  DAM5
KM      ROUTE SUB 280 THROUGH RETENTION BASIN 5
RS     1    STOR
SV     0     2.9     5.8
SE   100     101     102
SS101.99     200     2.9     1.5
ST   102     200     2.9     1.5
KK   250     SUB
KM      RUNOFF FROM SUB 250 AND ROUTE OUTFLOW FROM DAM 5
BA .0488
LS            77      36
UK   150    .004     .09     100
RK  1840    .004    .024            TRAP      10      50     YES
KK   460     SUB
KM      RUNOFF FROM SUB 460 AND ROUTE SUB 250
BA .1292
LS            79
UK   700   .0057     .10     100
RK  4000   .0058    .045            TRAP       5       7     YES
KK   461      CP
KM      COMBINE SUB 455 WITH SUB 460
HC     2
KK   495     SUB
KM      RUNOFF FROM SUB 495 AND ROUTE CP 461
BA .1559
```

```
LS            85
UK   800   .0057     .10     100
RK  4000   .0043    .045            TRAP       5      15     YES
KK   270     SUB
KM      RUNOFF FROM SUB 270
BA .0576
LS            77      45
UK   130    .004     .09     100
RK  1440    .004    .024            TRAP      10      25
KK   470     SUB
KM      RUNOFF FROM SUB 470 AND ROUTE SUB 270
BA .0770
LS            77
UK   425   .0057     .10     100
RK  3400   .0062    .045            TRAP       5       5     YES
KK  2223     RET
KM      RETRIEVE DIVERTED FLOW FROM CP 1121
DR  2223
KK   480     SUB
KM      RUNOFF FROM SUB 480 & ROUTE RET 2223
BA .0753
LS            77
UK   560   .0057     .10     100
RK  3200   .0069    .045            TRAP       5       5     YES
KK   481      CP
KM      COMBINE SUB 480 WITH SUB 470
HC     2
KK   490     SUB
KM      RUNOFF FROM SUB 490 AND ROUTE CP 481
BA .2027
LS            85
UK   950   .0057     .10     100
RK  5400   .0048    .045            TRAP       5      10     YES
KK   491      CP
KM      COMBINE SUB 490 WITH SUB 495
HC     2
KK   550     SUB
KM      RUNOFF FROM SUB 550 AND ROUTE CP 491
BA .2120
LS            84
UK  1200   .0057     .10     100
RK  3900   .0049    .045            TRAP      10      20     YES
KK   552      CP
KM      COMBINE SUB 550 WITH CP 551
HC     2
KK   545     SUB
KM      RUNOFF FROM SUB 545 AND ROUTE CP 552
BA .0888
LS            77
UK  1000   .0057     .10     100
RK  3600   .0047    .012            TRAP      30       1     YES
*       ******************************************************
*       THIS CONCLUDES THE AREA CONTRIBUTING TO THE NORTH/SOUTH
*       HIGHWAY DRAINAGE CHANNEL
*       ******************************************************
KK   547      CP
KM      COMBINE CP 546 AND SUB 545
KM      THIS WILL BE THE DESIGN DISCHARGE FOR THE OUTER LOOP BRIDGE
KM      OVER THE  ARIZONA CANAL
KM      THIS OPERATION BRINGS IN THE WATER FLOWING ALONG THE NORTH BANK OF
```

```
KM      THE ARIZONA CANAL FROM AS FAR EAST AS THE EVERGREEN WASTEWAY
HC     2
*
KK R547
KM ROUTE CP547 TO CP361
RS     1              -1
RC 0.030   0.030   0.030    2400   0.002
RX     0      10      20      35     100   110.5   120.5   130.5
RY    15      15      15       0       0    10.5    10.5    10.5
*
KK 320S
KM RUNOFF FROM SUBBASIN 320
BA 0.352
LS   0.0    71.0
UC 0.321   0.193
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
KK R321
KM ROUTE 320S TO CP341
RS     1              -1
RC 0.030   0.030   0.030    5500   0.005
RX     0      10      20      25      45      50      60      70
RY     5       5       5       0       0       5       5       5
*
KK 340S
KM RUNOFF FROM SUBBASIN 340
BA 0.541
LS   0.0    73.2
UC 0.308   0.146
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
KK CP341
KM COMBINE FLOWS FROM 340S AND R321
HC     2
*
KK R341
KM ROUTE 341 TO CP361
RS     1              -1
RC 0.030   0.030   0.030    2500   0.005
RX     0      10      20      25      45      50      60      70
RY     5       5       5       0       0       5       5       5
*
KK 360S
KM RUNOFF FROM SUBBASIN 360
BA 0.244
LS   0.0    73.2
UC 0.216   0.083
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
KK CP361
KM COMBINE FLOWS FROM 360S, R547 AND R341
HC     3
*
KK R361
KM ROUTE CP360 TO CP511
RS     1              -1
RC 0.030   0.030   0.030    7000   0.002
```

```
RX  8339    9321    9984    9989    9990   10059   10480   10820
RY  1303    1297    1292    1288    1288    1296    1297    1302
*
KK 380S
KM RUNOFF FROM SUBBASIN 380
BA 0.459
LS   0.0    77.0
UC 0.467   0.311
UA     0       5      16      30      65      77      84      90      94      97
UA   100
*
* 20-70
*
KK200010   BASIN
BA 1.793
LS     0      77       0       0      98       0
UK   280  0.0100    0.21      64
UK    93  0.0100    0.10      36
RK  6629  0.0091    0.03            TRAP      41     1.0
RK 12538  0.0091    0.03            TRAP      41     1.0
KK200020    FROM  200010
RK  1180  0.0020   0.013            CIRC     6.0
KK200020   BASIN
BA 0.024
LS     0      77       0       0      98       0
UK   160  0.0100    0.29      19
UK    53  0.0100    0.10      81
RK   704  0.0006    0.02            TRAP      30     1.0
RK  1114  0.0079    0.02            TRAP      60     1.0
KK200020 COMBINE
HC     2
KK200030    FROM  200020
RK  1171  0.0061   0.013            CIRC     6.0
KK200030   BASIN
BA 0.080
LS     0      75       0       0      98       0
UK   242  0.0100    0.24      69
UK    81  0.0100    0.10      31
RK   541  0.0006    0.02            TRAP      38     1.0
RK  2236  0.0079    0.02            TRAP      60     1.0
KK200030 COMBINE
HC     2
KK200040    FROM  200030
RK   622  0.0058   0.013            CIRC     6.0
KK200040   BASIN
BA 0.012
LS     0      77       0       0      98       0
UK   279  0.0100    0.22      75
UK   103  0.0100    0.10      25
RK   533  0.0006    0.02            TRAP      60     1.0
RK   622  0.0079    0.02            TRAP      26     1.0
KK200040 COMBINE
HC     2
KK200050    FROM  200040
RK   600  0.0015   0.018            TRAP     8.0     1.0
KK200110   BASIN
BA 0.030
LS     0      69       0       0      98       0
UK   161  0.0100    0.29      44
UK    54  0.0100    0.10      56
```

```
RK   516  0.0006    0.02            TRAP      21      1.0
RK   666  0.0079    0.02            TRAP      15      1.0
KK200120    FROM  200110
RK  1308  0.0079   0.017            TRAP     5.0      1.0
KK200120   BASIN
BA 0.057
LS     0      69       0       0      98       0
UK   298  0.0100    0.20      56
UK    99  0.0100    0.10      44
RK  1336  0.0006    0.02            TRAP      12      1.0
RK  1308  0.0079    0.02            TRAP      12      1.0
KK200120 COMBINE
HC     2
KK200050    FROM  200120
RK  1182  0.0079   0.017            TRAP     5.0      1.0
KK200050   BASIN
BA 0.050
LS     0      74       0       0      98       0
UK   152  0.0100    0.30      15
UK    56  0.0100    0.10      85
RK  1159  0.0079    0.02            TRAP      30      1.0
RK  1332  0.0021    0.03            TRAP      30      1.0
KK200050 COMBINE
HC     3
KK200060    FROM  200050
RK   956  0.0028   0.018            TRAP    15.0      1.0
KK200060   BASIN
BA 0.053
LS     0      69       0       0      98       0
UK   152  0.0100    0.30      16
UK    53  0.0100    0.10      84
RK   797  0.0006    0.02            TRAP      30      1.0
RK  1244  0.0079    0.02            TRAP      30      1.0
KK200060 COMBINE
HC     2
KK200070    FROM  200060
RK   329  0.0028   0.018            TRAP    15.0      1.0
*
KKCP521 COMBINE
HC     4
*
KK R521
KM ROUTE CP521 TO CP531
RS     1              -1
RC 0.035   0.025   0.035     900  0.0020
RX  9644    9663    9738    9970    9971   10159   10245   10260
RY  1277    1273    1269    1265    1265    1269    1273    1277
*
* 15-820
*
KK150810   BASIN
BA 0.021
LS     0      79       0       0      98       0
UK   151  0.0100    0.30      46
UK    51  0.0100    0.10      54
RK  1103  0.0026    0.02            TRAP      19      1.0
KK150820    FROM  150810
RK   279  0.0008   0.017            TRAP    37.5       1
*
KKCP531 COMBINE
```

```
HC      2
*
KK R531
KM ROUTE CP531 TO CP541
RS      1              -1
RC 0.035    0.025    0.035     750  0.0022
RX  9644     9663     9738    9970    9971   10159   10245   10260
RY  1277     1273     1269    1265    1265    1269    1273    1277
*
* 15-920
*
KK150910   BASIN
BA 0.018
LS      0       79        0        0       98        0
UK    130   0.0100     0.32       39
UK     76   0.0100     0.10       61
RK   1380   0.0026     0.02             TRAP       38      1.0
KK150920    FROM  150910
RK    228   0.0008    0.017             TRAP     48.8        1
*
KKCP541 COMBINE
HC      2
*
KK R541
KM ROUTE CP541 TO CP551
RS      1              -1
RC 0.035    0.025    0.035     750  0.0023
RX  9644     9663     9738    9970    9971   10159   10245   10260
RY  1277     1273     1269    1265    1265    1269    1273    1277
*
* 15-1020
*
KK151010   BASIN
BA 0.005
LS      0       79        0        0       98        0
UK     20   0.0100     0.40        6
UK    200   0.0100     0.10       94
RK    266   0.0026     0.02             TRAP       19      1.0
KK151020    FROM  151010
RK    217   0.0007    0.013             CIRC      1.5
*
KKCP551 COMBINE
HC      2
*
KK R551
KM ROUTE CP551 TO CP561
RS      1              -1
RC 0.025    0.020    0.025    2700  0.0073
RX  9522     9845     9854    9922   10106   10131   10147   10163
RY  1271     1267     1265    1263    1263    1267    1271    1275
*
* 15-720
*
KK150710   BASIN
BA 0.015
LS      0       79        0        0       98        0
UK    150   0.0100     0.30       46
UK     50   0.0100     0.10       54
RK    757   0.0008     0.02             TRAP       38      1.0
KK150720    FROM  150710
```

```
RK   104  0.0008   0.030            TRAP     3.0     3.0
*
* 15-230
*
KK150210   BASIN
BA 0.101
LS     0      79       0       0      98       0
UK   144  0.0100    0.31      60
UK    62  0.0100    0.10      40
RK  1222  0.0008    0.02            TRAP      45     1.0
RK  1985  0.0026    0.02            TRAP      23     1.0
KK150220    FROM  150210
RK  2156  0.0008   0.017            TRAP    45.0       1
KK150310   BASIN
BA 0.044
LS     0      79       0       0      98       0
UK   131  0.0100    0.32      56
UK    72  0.0100    0.10      44
RK  1570  0.0026    0.02            TRAP      38     1.0
KK150320    FROM  150310
RK  1401  0.0023   0.013            CIRC     1.5
KK150320   BASIN
BA 0.010
LS     0      79       0       0      98       0
UK    81  0.0100    0.36      29
UK   144  0.0100    0.10      71
RK  2167  0.0026    0.02            TRAP      49     1.0
KK150320 COMBINE
HC     2
KK150220    FROM  150320
RK  1561  0.0023   0.013            CIRC     2.0
KK150410   BASIN
BA 0.076
LS     0      79       0       0      98       0
UK   199  0.0100    0.30      15
UK   200  0.0100    0.10      85
RK   831  0.0008    0.02            TRAP      49     1.0
RK  2450  0.0026    0.02            TRAP      49     1.0
KK150410 STORAGE
RS     1    STOR
SV  0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    4.89    5.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   1.0     500     3.0     1.5
KK150220    FROM  150410
RK   357  0.0008   0.017            TRAP    45.0       1
KK150220   BASIN
BA 0.040
LS     0      79       0       0      98       0
UK   164  0.0100    0.30      40
UK    92  0.0100    0.10      60
RK  1237  0.0008    0.02            TRAP      45     1.0
RK  2156  0.0026    0.02            TRAP      45     1.0
KK150220 COMBINE
HC     4
KK150230    FROM  150220
RK   886  0.0023   0.013            CIRC     1.0
*
* 19-80
*
```

```
KK190010   BASIN
BA 0.777
LS     0      81       0       0      98       0
UK   278  0.0100    0.22      86
UK    93  0.0100    0.10      14
RK  7272  0.0169    0.03            TRAP      38     1.0
RK 11231  0.0169    0.03            TRAP      39     1.0
KK190020    FROM  190010
RK   802  0.0040   0.013            CIRC     3.0
KK190110   BASIN
BA 0.024
LS     0      77       0       0      98       0
UK    57  0.0100    0.37      15
UK   157  0.0100    0.10      85
RK   199  0.0044    0.02            TRAP      30     1.0
RK  1191  0.0013    0.02            TRAP      30     1.0
KK190110 STORAGE
RS     1    STOR
SV  0.00    3.24    3.24    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   1.0     500     3.0     1.5
KK190020    FROM  190110
RK   367  0.0044   0.017            TRAP    76.5       1
KK190020   BASIN
BA 0.013
LS     0      77       0       0      98       0
UK   100  0.0100    0.34      19
UK   107  0.0100    0.10      81
RK  3164  0.0044    0.02            TRAP      68     1.0
KK190020 COMBINE
HC     3
KK190030    FROM  190020
RK   626  0.0040   0.013            CIRC     3.0
KK190030   BASIN
BA 0.034
LS     0      77       0       0      98       0
UK   151  0.0100    0.30      46
UK    54  0.0100    0.10      54
RK  2256  0.0044    0.02            TRAP      60     1.0
KK190030 COMBINE
HC     2
KK190040    FROM  190030
RK  1754  0.0040   0.013            CIRC     3.0
KK190040   BASIN
BA 0.033
LS     0      77       0       0      98       0
UK   239  0.0100    0.24      56
UK    92  0.0100    0.10      44
RK  1202  0.0013    0.02            TRAP      23     1.0
RK  1751  0.0044    0.02            TRAP      68     1.0
KK190040 COMBINE
HC     2
KK190210   BASIN
BA 0.021
LS     0      77       0       0      98       0
UK    87  0.0100    0.35      15
UK   123  0.0100    0.10      85
RK   322  0.0044    0.02            TRAP      30     1.0
RK  1112  0.0013    0.02            TRAP      38     1.0
```

```
KK190210 STORAGE
RS      1    STOR
SV   0.00    2.81    2.81    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    1.0     500     3.0     1.5
KK190220    FROM  190210
RK    794  0.0044   0.017            TRAP    24.0       1
KK190220   BASIN
BA 0.019
LS      0      77       0       0      98       0
UK    151  0.0100    0.30      46
UK     52  0.0100    0.10      54
RK    451  0.0013    0.02            TRAP      24     1.0
RK    794  0.0044    0.02            TRAP      24     1.0
KK190220 COMBINE
HC      2
KK190220 STORAGE
RS      1    STOR
SV   0.00    1.26    1.26    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    1.0     500     3.0     1.5
KK190230    FROM  190220
RK   1963  0.0044   0.025            TRAP     5.0     1.0
KK190230   BASIN
BA 0.069
LS      0      77       0       0      98       0
UK    263  0.0100    0.23      73
UK     90  0.0100    0.10      27
RK    597  0.0013    0.02            TRAP      23     1.0
RK   1817  0.0044    0.03            TRAP      12     1.0
KK190230 COMBINE
HC      2
KK190240    FROM  190230
RK   1014  0.0013   0.025            TRAP     5.0     1.0
KK190240   BASIN
BA 0.067
LS      0      77       0       0      98       0
UK    298  0.0100    0.20      84
UK    102  0.0100    0.10      16
RK   1530  0.0044    0.02            TRAP      38     1.0
RK   1013  0.0013    0.03            TRAP      30     1.0
KK190240 COMBINE
HC      2
KK190040    FROM  190240
RK    428  0.0033   0.013            DEEP     8.5
KK190040 COMBINE
HC      2
KK190050    FROM  190040
RK    641  0.0014   0.013            DEEP     7.0
KK190060    FROM  190050
RK    387  0.0014   0.013            DEEP     9.0
KK190060   BASIN
BA 0.038
LS      0      79       0       0      98       0
UK    136  0.0100    0.31      55
UK     76  0.0100    0.10      45
RK    843  0.0013    0.02            TRAP      79     1.0
RK   1182  0.0044    0.02            TRAP      45     1.0
```

```
KK190060 COMBINE
HC      2
KK190310   BASIN
BA 0.066
LS      0      79       0       0      98       0
UK    152  0.0100    0.30      47
UK     55  0.0100    0.10      53
RK    340  0.0044    0.02            TRAP      24     1.0
RK   1686  0.0013    0.02            TRAP      45     1.0
KK190060    FROM  190310
RK   1181  0.0013   0.017            TRAP    45.0       1
KK190410   BASIN
BA 0.010
LS      0      79       0       0      98       0
UK     32  0.0100    0.39       7
UK    200  0.0100    0.10      93
RK    958  0.0013    0.02            TRAP      18     1.0
KK190410 STORAGE
RS      1    STOR
SV   0.00    1.22    1.22    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    1.0     500     3.0     1.5
KK190060    FROM  190410
RK    760  0.0044   0.017            TRAP    78.8       1
KK190510   BASIN
BA 0.013
LS      0      79       0       0      98       0
UK     31  0.0100    0.39       7
UK    200  0.0100    0.10      93
RK    266  0.0013    0.02            TRAP       9     1.0
RK    571  0.0044    0.02            TRAP       9     1.0
KK190510 STORAGE
RS      1    STOR
SV   0.00    1.72    1.72    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    1.0     500     3.0     1.5
KK190060    FROM  190510
RK    752  0.0013   0.017            TRAP    45.0       1
KK190060 COMBINE
HC      4
KK190070    FROM  190060
RK    770  0.0014   0.013            DEEP     9.0
KK190070   BASIN
BA 0.031
LS      0      79       0       0      98       0
UK    142  0.0100    0.31      44
UK     59  0.0100    0.10      56
RK   1114  0.0013    0.02            TRAP       9     1.0
RK    881  0.0044    0.02            TRAP      79     1.0
KK190070 COMBINE
HC      2
KK190080    FROM  190070
RK    309  0.0014   0.013            DEEP     9.0
*
KKCP561 COMBINE sub-basins 15-720, 15-230, 19-80 and R551
HC      4
*
KK R561
```

```
KM ROUTE CP561 TO CP571
RS      1              -1
RC 0.030   0.020   0.030     800  0.0026
RX  9085    9829    9966    9976    9981    9991   10065   10079
RY  1265    1262    1258    1254    1254    1258    1262    1266
*
* 15-530
*
KK150510   BASIN
BA 0.048
LS      0      79       0       0      98       0
UK    112  0.0100    0.33      35
UK     94  0.0100    0.10      65
RK   1063  0.0026    0.02            TRAP      45     1.0
RK   1228  0.0008    0.02            TRAP      75     1.0
KK150520    FROM  150510
RK   1358  0.0023   0.013            CIRC     2.0
KK150610   BASIN
BA 0.040
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      43
UK     50  0.0100    0.10      57
RK    701  0.0008    0.02            TRAP      30     1.0
RK    816  0.0026    0.02            TRAP      38     1.0
KK150520    FROM  150610
RK    980  0.0007   0.013            CIRC     1.5
KK150520 COMBINE
HC      2
KK150530    FROM  150520
RK    315  0.0007   0.013            CIRC     2.0
*
KKCP571 COMBINE sub-basins 15-530 and R561
HC      2
*
KK R571
KM ROUTE CP571 TO CP581
RS      1              -1
RC 0.030   0.020   0.030     800  0.0026
RX  9085    9829    9966    9976    9981    9991   10065   10079
RY  1265    1262    1258    1254    1254    1258    1262    1266
*
* 19-720
*
KK190710   BASIN
BA 0.071
LS      0      79       0       0      98       0
UK     97  0.0100    0.34      30
UK    114  0.0100    0.10      70
RK    619  0.0013    0.02            TRAP      38     1.0
RK   1242  0.0044    0.02            TRAP      45     1.0
KK190720    FROM  190710
RK    246  0.0044   0.017            TRAP    45.0       1
*
KKCP581 COMBINE sub-basin 19-720 and R571
HC      2
*
KK R581
KM ROUTE CP581 TO CP591
RS      1              -1
RC 0.030   0.020   0.030     550  0.0026
```

```
RX  9085    9829    9966    9976    9981    9991   10065   10079
RY  1265    1262    1258    1254    1254    1258    1262    1266
*
* 19-620
*
KK190610   BASIN
BA 0.032
LS     0      79       0       0      98       0
UK   149  0.0100    0.30      45
UK    56  0.0100    0.10      55
RK   733  0.0044    0.02            TRAP      38     1.0
RK   813  0.0013    0.02            TRAP      45     1.0
KK190620    FROM  190610
RK  1163  0.0025   0.013            CIRC     3.0
*
KKCP591 COMBINE sub-basin 19-620 and R581
HC     2
*
KK R591
KM ROUTE CP591 TO CP601
RS     1              -1
RC 0.030   0.020   0.030     950  0.0026
RX  9085    9829    9966    9976    9981    9991   10065   10079
RY  1265    1262    1258    1254    1254    1258    1262    1266
*
* 15-90
*
KK150010   BASIN
BA 0.040
LS     0      80       0       0      98       0
UK   151  0.0100    0.30      65
UK    52  0.0100    0.10      35
RK   452  0.0008    0.02            TRAP      38     1.0
RK  1521  0.0026    0.02            TRAP      38     1.0
KK150020    FROM  150010
RK  1009  0.0026   0.017            TRAP    45.0       1
KK150020   BASIN
BA 0.051
LS     0      79       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1227  0.0008    0.02            TRAP      49     1.0
RK  2132  0.0026    0.02            TRAP      49     1.0
KK150020 COMBINE
HC     2
KK150030    FROM  150020
RK   837  0.0026   0.017            TRAP    45.0       1
KK150030   BASIN
BA 0.053
LS     0      79       0       0      98       0
UK   173  0.0100    0.29      57
UK    58  0.0100    0.10      43
RK  1990  0.0026    0.02            TRAP      38     1.0
KK150030 COMBINE
HC     2
KK150040    FROM  150030
RK   179  0.0026   0.017            TRAP    45.0       1
KK150040   BASIN
BA 0.140
LS     0      79       0       0      98       0
```

```
UK   282  0.0100    0.21      25
UK    94  0.0100    0.10      75
RK  4176  0.0008    0.02            TRAP     75     1.0
KK150040 COMBINE
HC     2
KK150050    FROM  150040
RK  1388  0.0026   0.017            TRAP   45.0      1
KK150050   BASIN
BA 0.104
LS     0      79       0       0     98       0
UK   137  0.0100    0.31      55
UK    66  0.0100    0.10      45
RK  1442  0.0008    0.02            TRAP     38     1.0
RK  1388  0.0026    0.02            TRAP     45     1.0
KK150050 COMBINE
HC     2
KK150060    FROM  150050
RK  1128  0.0026   0.017            TRAP   45.0      1
KK150060   BASIN
BA 0.190
LS     0      79       0       0     98       0
UK   229  0.0100    0.25      39
UK    86  0.0100    0.10      61
RK  1303  0.0008    0.02            TRAP     38     1.0
RK  1128  0.0026    0.02            TRAP     45     1.0
KK150060 COMBINE
HC     2
KK150070    FROM  150060
RK  1346  0.0019   0.013            CIRC    5.5
KK150110   BASIN
BA 0.100
LS     0      79       0       0     98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1226  0.0008    0.02            TRAP     45     1.0
RK  1836  0.0026    0.02            TRAP     60     1.0
KK150120    FROM  150110
RK  1268  0.0026   0.017            TRAP   60.0      1
KK150120   BASIN
BA 0.047
LS     0      79       0       0     98       0
UK   129  0.0100    0.32      49
UK    75  0.0100    0.10      51
RK   978  0.0008    0.02            TRAP     38     1.0
RK  1268  0.0026    0.02            TRAP     60     1.0
KK150120 COMBINE
HC     2
KK150130    FROM  150120
RK   391  0.0026   0.017            TRAP   60.0      1
KK150130   BASIN
BA 0.020
LS     0      79       0       0     98       0
UK    25  0.0100    0.40      15
UK   194  0.0100    0.10      85
RK   852  0.0008    0.02            TRAP     30     1.0
RK   391  0.0026    0.02            TRAP     60     1.0
KK150130 COMBINE
HC     2
KK150070    FROM  150130
RK  2155  0.0026   0.017            TRAP   60.0      1
```

```
KK150070   BASIN
BA 0.022
LS     0      79       0       0      98       0
UK   178  0.0100    0.31      26
UK   161  0.0100    0.10      74
RK  2155  0.0026    0.02            TRAP      60     1.0
KK150070 COMBINE
HC     3
KK150080    FROM  150070
RK  1309  0.0019   0.013            CIRC     5.5
KK150080   BASIN
BA 0.103
LS     0      79       0       0      98       0
UK   150  0.0100    0.30      62
UK    50  0.0100    0.10      38
RK  1018  0.0008    0.02            TRAP      38     1.0
RK  1952  0.0026    0.02            TRAP      38     1.0
KK150080 COMBINE
HC     2
KK150090    FROM  150080
RK  1278  0.0019   0.013            CIRC     5.5
*
* 19-820
*
KK190810   BASIN
BA 0.054
LS     0      79       0       0      98       0
UK   151  0.0100    0.30      46
UK    52  0.0100    0.10      54
RK   733  0.0013    0.02            TRAP      45     1.0
RK  1670  0.0044    0.02            TRAP      45     1.0
KK190820    FROM  190810
RK   292  0.0044   0.017            TRAP    45.0       1
*
KKCP601 COMBINE sub-basins 15-90, 19-820 and R591
HC     3
*
KK R601
KM ROUTE CP301 TO CP611
RS     1              -1
RC 0.030   0.020   0.030    1300  0.0060
RX  9278    9318    9344    9791    9792    9804    9852    9874
RY  1262    1259    1256    1253    1253    1256    1259    1261
*
* 14-220
*
KK140210   BASIN
BA 0.096
LS     0      79       0       0      98       0
UK   151  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1177  0.0004    0.02            TRAP      38     1.0
RK  1187  0.0023    0.02            TRAP      45     1.0
KK140220    FROM  140210
RK   728  0.0004   0.013            CIRC     2.5
*
* 16-220
*
KK160210   BASIN
BA 0.048
```

```
LS      0      79       0       0      98       0
UK    152  0.0100    0.30      47
UK     51  0.0100    0.10      53
RK    696  0.0044    0.02            TRAP      27     1.0
RK   1158  0.0013    0.02            TRAP      33     1.0
KK160220    FROM  160210
RK    317  0.0044   0.025            TRAP    10.0     1.0
*
KKCP611 COMBINE sub-basins 14-220, 16-220 and R601
HC      3
*
KK R611
KM ROUTE CP611 TO CP621
RS      1              -1
RC 0.030   0.020   0.030    1400  0.0060
RX  9278    9318    9344    9791    9792    9804    9852    9874
RY  1262    1259    1256    1253    1253    1256    1259    1261
*
* 14-70
*
KK140010   BASIN
BA 0.065
LS      0      79       0       0      98       0
UK    268  0.0100    0.22      30
UK     89  0.0100    0.10      70
RK    943  0.0004    0.02            TRAP      74     1.0
KK140020    FROM  140010
RK    607  0.0010   0.013            CIRC     3.0
KK140020   BASIN
BA 0.018
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1400  0.0023    0.02            TRAP      12     1.0
KK140020 COMBINE
HC      2
KK140030    FROM  140020
RK    652  0.0010   0.013            CIRC     5.0
KK140030   BASIN
BA 0.088
LS      0      79       0       0      98       0
UK    173  0.0100    0.29      58
UK     58  0.0100    0.10      42
RK   1304  0.0004    0.02            TRAP      38     1.0
RK   1213  0.0023    0.02            TRAP      45     1.0
KK140030 COMBINE
HC      2
KK140040    FROM  140030
RK   1292  0.0031   0.013            CIRC     7.0
KK140110   BASIN
BA 0.050
LS      0      79       0       0      98       0
UK    152  0.0100    0.30      63
UK     55  0.0100    0.10      37
RK   1274  0.0004    0.02            TRAP      38     1.0
RK   1274  0.0023    0.02            TRAP      45     1.0
KK140120    FROM  140110
RK   1960  0.0004   0.017            TRAP    45.0       1
KK140120   BASIN
BA 0.155
```

```
LS      0      79       0       0      98       0
UK    220  0.0100    0.25      44
UK     73  0.0100    0.10      56
RK   4274  0.0004    0.02            TRAP      45     1.0
KK140120 COMBINE
HC      2
KK140040    FROM  140120
RK   1296  0.0022   0.017            TRAP    60.0       1
KK140040   BASIN
BA 0.026
LS      0      79       0       0      98       0
UK    147  0.0100    0.30      46
UK     54  0.0100    0.10      54
RK   1252  0.0023    0.02            TRAP      60     1.0
RK   1292  0.0004    0.02            TRAP      83     1.0
KK140040 COMBINE
HC      3
KK140050    FROM  140040
RK    637  0.0041   0.013            CIRC     7.0
KK140050   BASIN
BA 0.031
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      47
UK     50  0.0100    0.10      53
RK   1231  0.0023    0.02            TRAP      38     1.0
RK    648  0.0004    0.02            TRAP      38     1.0
KK140050 COMBINE
HC      2
KK140060    FROM  140050
RK    694  0.0048   0.013            CIRC     7.5
KK140060   BASIN
BA 0.051
LS      0      79       0       0      98       0
UK    151  0.0100    0.30      47
UK     50  0.0100    0.10      53
RK   1434  0.0023    0.02            TRAP      19     1.0
RK    694  0.0004    0.02            TRAP      38     1.0
KK140060 COMBINE
HC      2
KK140070    FROM  140060
RK    821  0.0065   0.013            CIRC     8.0
*
* 16-40
*
KK160010   BASIN
BA 0.038
LS      0      79       0       0      98       0
UK    143  0.0100    0.31      40
UK     84  0.0100    0.10      60
RK   3330  0.0013    0.02            TRAP      60     1.0
KK160020    FROM  160010
RK   1311  0.0044   0.017            TRAP    60.0       1
KK160110   BASIN
BA 0.054
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK    750  0.0044    0.02            TRAP      45     1.0
RK   1369  0.0013    0.02            TRAP      53     1.0
KK160020    FROM  160110
```

```
RK  1095  0.0013   0.017            TRAP    52.5      1
KK160020   BASIN
BA 0.049
LS     0      79       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  1034  0.0044    0.02            TRAP      53    1.0
RK  1311  0.0013    0.02            TRAP      71    1.0
KK160020 COMBINE
HC     3
KK160030    FROM  160020
RK  1107  0.0044   0.017            TRAP    71.3      1
KK160030   BASIN
BA 0.019
LS     0      79       0       0      98       0
UK   121  0.0100    0.32      39
UK    86  0.0100    0.10      61
RK  1231  0.0013    0.02            TRAP      19    1.0
RK  1107  0.0044    0.02            TRAP      71    1.0
KK160030 COMBINE
HC     2
KK160040    FROM  160030
RK   302  0.0044   0.017            TRAP    71.3      1
*
* 18-90
*
KK180010   BASIN
BA 0.128
LS     0      77       0       0      98       0
UK   251  0.0100    0.23      74
UK    84  0.0100    0.10      26
RK  2503  0.0017    0.02            TRAP      23    1.0
RK  1174  0.0089    0.02            TRAP      23    1.0
KK180020    FROM  180010
RK  2230  0.0089   0.017            TRAP    37.5      1
KK180020   BASIN
BA 0.228
LS     0      77       0       0      98       0
UK   149  0.0100    0.30      70
UK    51  0.0100    0.10      30
RK  2520  0.0017    0.02            TRAP      23    1.0
RK  2230  0.0089    0.02            TRAP      23    1.0
KK180020 COMBINE
HC     2
KK180030    FROM  180020
RK   352  0.0210   0.013            CIRC     3.5
KK180310   BASIN
BA 0.343
LS     0      79       0       0      98       0
UK   223  0.0100    0.25      72
UK    74  0.0100    0.10      28
RK  2445  0.0017    0.02            TRAP      49    1.0
RK  9389  0.0089    0.02            TRAP      23    1.0
KK180030    FROM  180310
RK  2593  0.0017   0.017            TRAP    97.5      1
KK180030   BASIN
BA 0.026
LS     0      77       0       0      98       0
UK   140  0.0100    0.31      59
UK    61  0.0100    0.10      41
```

```
RK  2593  0.0017    0.02            TRAP     98     1.0
KK180030 COMBINE
HC     3
KK180040    FROM  180030
RK   647  0.0102   0.013            CIRC     5.5
KK180050    FROM  180040
RK   660  0.0038   0.013            CIRC     5.5
KK180060    FROM  180050
RK   733  0.0038   0.013            CIRC     5.5
KK180060   BASIN
BA 0.049
LS     0      77       0       0      98       0
UK    87  0.0100    0.35      13
UK   129  0.0100    0.10      87
RK   625  0.0017    0.02            TRAP     15     1.0
RK  1914  0.0089    0.02            TRAP     45     1.0
KK180060 COMBINE
HC     2
KK180110   BASIN
BA 0.024
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK   903  0.0089    0.02            TRAP     18     1.0
KK180110 STORAGE
RS     1    STOR
SV  0.00    1.80    1.80    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   1.0     500     3.0     1.5
KK180120    FROM  180110
RK  2084  0.0089   0.017            TRAP   45.0       1
KK180120   BASIN
BA 0.040
LS     0      77       0       0      98       0
UK   280  0.0100    0.21      81
UK    93  0.0100    0.10      19
RK   660  0.0017    0.02            TRAP     38     1.0
RK  2588  0.0089    0.02            TRAP     27     1.0
KK180120 COMBINE
HC     2
KK180130    FROM  180120
RK  2244  0.0089   0.017            TRAP   37.5       1
KK180130   BASIN
BA 0.116
LS     0      77       0       0      98       0
UK   155  0.0100    0.30      75
UK    56  0.0100    0.10      25
RK  1210  0.0017    0.02            TRAP     38     1.0
RK  2226  0.0089    0.02            TRAP     38     1.0
KK180130 COMBINE
HC     2
KK180210   BASIN
BA 0.027
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   366  0.0017    0.02            TRAP     24     1.0
RK  1046  0.0089    0.02            TRAP     24     1.0
KK180210 STORAGE
```

```
RS     1    STOR
SV  0.00    1.80    1.80    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   1.0     500     3.0     1.5
KK180220    FROM  180210
RK  1503  0.0017   0.017            TRAP    37.5       1
KK180220   BASIN
BA 0.063
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      55
UK    50  0.0100    0.10      45
RK  1201  0.0017    0.02            TRAP      38     1.0
RK  1901  0.0089    0.02            TRAP      38     1.0
KK180220 COMBINE
HC     2
KK180130    FROM  180220
RK  1618  0.0089   0.017            TRAP    37.5       1
KK180130 COMBINE
HC     2
KK180140    FROM  180130
RK   968  0.0014   0.025            TRAP     5.0     1.0
KK180140   BASIN
BA 0.038
LS     0      77       0       0      98       0
UK   153  0.0100    0.30      71
UK    58  0.0100    0.10      29
RK  1106  0.0017    0.02            TRAP      38     1.0
RK  1016  0.0089    0.02            TRAP      45     1.0
KK180140 COMBINE
HC     2
KK180150    FROM  180140
RK   750  0.0012   0.012            TRAP     2.0     1.0
KK180150   BASIN
BA 0.128
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      69
UK    53  0.0100    0.10      31
RK   898  0.0017    0.02            TRAP      38     1.0
RK  2523  0.0089    0.02            TRAP      38     1.0
KK180150 COMBINE
HC     2
KK180060    FROM  180150
RK   666  0.0030   0.013            CIRC     6.0
KK180060 COMBINE
HC     2
KK180070    FROM  180060
RK   755  0.0092   0.013            CIRC     8.0
KK180080    FROM  180070
RK  1634  0.0032   0.013            CIRC     8.0
KK180090    FROM  180080
RK   796  0.0020   0.013            DEEP     8.5
*
KKCP621 COMBINE sub-basins 14-70, 16-40, 18-90 and R611
HC     4
*
KK R621
KM ROUTE CP621 TO CP631
RS     1              -1
RC 0.030   0.025   0.030     550  0.0026
```

```
RX  9183    9367    9375    9580    9602    9736    9757   10190
RY  1255    1244    1240    1236    1236    1240    1244    1254
*
* 13-830
*
KK130810   BASIN
BA 0.042
LS     0      79       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1295  0.0017    0.02            TRAP      38     1.0
RK   850  0.0032    0.02            TRAP      45     1.0
KK130820    FROM  130810
RK   489  0.0032   0.017            TRAP    45.0       1
KK130820   BASIN
BA 0.046
LS     0      79       0       0      98       0
UK   149  0.0100    0.30      64
UK    52  0.0100    0.10      36
RK  1054  0.0032    0.02            TRAP      60     1.0
RK  2974  0.0017    0.02            TRAP      45     1.0
KK130820 COMBINE
HC     2
KK130830    FROM  130820
RK   828  0.0015   0.013            CIRC     2.0
*
* 16-320
*
KK160310   BASIN
BA 0.093
LS     0      79       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  1072  0.0013    0.02            TRAP      45     1.0
RK  2164  0.0044    0.02            TRAP      38     1.0
KK160320    FROM  160310
RK   383  0.0040   0.013            CIRC     3.0
*
KKCP631 COMBINE sub-basins 13-830, 16-320 and R621
HC     3
*
KK R631
KM ROUTE CP631 TO CP641
RS     1              -1
RC 0.030   0.025   0.030     800  0.0026
RX  9183    9367    9375    9580    9602    9736    9757   10190
RY  1255    1244    1240    1236    1236    1240    1244    1254
*
* 13-720
*
KK130710   BASIN
BA 0.049
LS     0      79       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK   431  0.0017    0.02            TRAP      45     1.0
RK  1328  0.0032    0.02            TRAP      38     1.0
KK130720    FROM  130710
RK   526  0.0015   0.013            CIRC     2.5
*
```

```
KKCP641 COMBINE sub-basins 13-720 and R631
HC      2
*
KK R641
KM ROUTE CP641 TO CP651
RS      1              -1
RC 0.035   0.020   0.035     500  0.0026
RX  9095    9264    9452    9502    9523    9662    9752   10105
RY  1251    1245    1240    1236    1236    1240    1245    1251
*
* 13-570
*
KK130610   BASIN
BA 0.187
LS      0      79       0       0      98       0
UK    266  0.0100    0.22      30
UK     89  0.0100    0.10      70
RK   2464  0.0032    0.02            TRAP      38     1.0
KK130530    FROM  130610
RK    617  0.0032   0.017            TRAP    60.0       1
KK130510   BASIN
BA 0.074
LS      0      79       0       0      98       0
UK    149  0.0100    0.30      62
UK     51  0.0100    0.10      38
RK   1292  0.0017    0.02            TRAP      38     1.0
RK    755  0.0032    0.02            TRAP      45     1.0
KK130520    FROM  130510
RK    463  0.0032   0.017            TRAP    45.0       1
KK130520   BASIN
BA 0.033
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1234  0.0017    0.02            TRAP      45     1.0
RK    463  0.0032    0.02            TRAP      45     1.0
KK130520 COMBINE
HC      2
KK130530    FROM  130520
RK   1299  0.0032   0.017            TRAP    45.0       1
KK130530   BASIN
BA 0.061
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    647  0.0017    0.02            TRAP      38     1.0
RK   1294  0.0032    0.02            TRAP      45     1.0
KK130530 COMBINE
HC      3
KK130540    FROM  130530
RK    721  0.0019   0.013            CIRC     5.0
KK130550    FROM  130540
RK   1017  0.0033   0.013            CIRC     5.0
KK130560    FROM  130550
RK   1003  0.0021   0.013            CIRC     5.0
KK130560   BASIN
BA 0.053
LS      0      79       0       0      98       0
UK    187  0.0100    0.29      36
UK    131  0.0100    0.10      64
```

```
RK  1241  0.0032    0.02            TRAP     30     1.0
RK  2741  0.0017    0.02            TRAP     60     1.0
KK130560 COMBINE
HC     2
KK130570    FROM  130560
RK   748  0.0011   0.013            CIRC    5.0
*
* 16-440
*
KK160410   BASIN
BA 0.052
LS     0      79       0       0      98       0
UK   134  0.0100    0.31      46
UK    75  0.0100    0.10      54
RK   784  0.0044    0.02            TRAP     38     1.0
RK  1623  0.0013    0.02            TRAP     60     1.0
KK160420    FROM  160410
RK   909  0.0013   0.017            TRAP   60.0      1
KK160510   BASIN
BA 0.018
LS     0      79       0       0      98       0
UK    32  0.0100    0.39      11
UK   200  0.0100    0.10      89
RK   611  0.0013    0.02            TRAP     38     1.0
RK  1504  0.0044    0.02            TRAP     30     1.0
KK160420    FROM  160510
RK   913  0.0044   0.017            TRAP   30.0      1
KK160420   BASIN
BA 0.059
LS     0      79       0       0      98       0
UK   116  0.0100    0.33      48
UK    92  0.0100    0.10      52
RK   851  0.0013    0.02            TRAP     38     1.0
RK  1952  0.0044    0.02            TRAP     38     1.0
KK160420 COMBINE
HC     3
KK160430    FROM  160420
RK  2295  0.0044   0.017            TRAP   60.0      1
KK160430   BASIN
BA 0.114
LS     0      79       0       0      98       0
UK    84  0.0100    0.35      26
UK   128  0.0100    0.10      74
RK  1281  0.0013    0.02            TRAP     45     1.0
RK  2294  0.0044    0.02            TRAP     60     1.0
KK160430 COMBINE
HC     2
KK160440    FROM  160430
RK   298  0.0040   0.013            CIRC    4.5
*
* 17-110
*
KK170010   BASIN
BA 0.156
LS     0      78       0       0      98       0
UK   296  0.0100    0.20      31
UK    99  0.0100    0.10      69
RK  1159  0.0083    0.02            TRAP     25     1.0
RK  5782  0.0245    0.03            TRAP     30     1.0
KK170020    FROM  170010
```

```
RK   607  0.0038   0.013            CIRC     3.5
KK170020   BASIN
BA 0.272
LS     0      81       0       0      98       0
UK   300  0.0100    0.20      52
UK   100  0.0100    0.10      48
RK  3469  0.0245    0.03            TRAP      30     1.0
RK  5354  0.0245    0.03            TRAP      30     1.0
KK170020 COMBINE
HC     2
KK170030    FROM  170020
RK   212  0.0020   0.013            CIRC     5.0
KK170030   BASIN
BA 0.066
LS     0      77       0       0      98       0
UK   300  0.0100    0.20      44
UK   100  0.0100    0.10      56
RK   807  0.0059    0.02            TRAP      36     1.0
RK  2205  0.0083    0.02            TRAP      30     1.0
KK170030 COMBINE
HC     2
KK170040    FROM  170030
RK   226  0.0020   0.013            CIRC     6.0
KK170040   BASIN
BA 0.332
LS     0      83       0       0      98       0
UK   297  0.0100    0.20      91
UK    99  0.0100    0.10       9
RK  5193  0.0083    0.02            TRAP      45     1.0
KK170040 COMBINE
HC     2
KK170050    FROM  170040
RK   626  0.0023   0.013            CIRC     6.0
KK170050   BASIN
BA 0.053
LS     0      77       0       0      98       0
UK   150  0.0100    0.30      46
UK    50  0.0100    0.10      54
RK  2322  0.0083    0.02            TRAP      21     1.0
RK   583  0.0059    0.02            TRAP      41     1.0
KK170050 COMBINE
HC     2
KK170060    FROM  170050
RK   676  0.0054   0.013            CIRC     6.0
KK170210   BASIN
BA 0.060
LS     0      77       0       0      98       0
UK    99  0.0100    0.34      31
UK   109  0.0100    0.10      69
RK   612  0.0059    0.02            TRAP      18     1.0
RK  2272  0.0083    0.02            TRAP      60     1.0
KK170060    FROM  170210
RK   273  0.0055   0.013            CIRC     3.9
KK170060   BASIN
BA 0.009
LS     0      77       0       0      98       0
UK    30  0.0100    0.39      17
UK   189  0.0100    0.10      83
RK   195  0.0083    0.02            TRAP      45     1.0
RK   632  0.0059    0.02            TRAP      39     1.0
```

```
KK170060 COMBINE
HC      3
KK170070     FROM  170060
RK   2573  0.0062   0.013            CIRC     7.0
KK170810    BASIN
BA 0.086
LS      0      77       0       0      98       0
UK     65  0.0100    0.37      17
UK    148  0.0100    0.10      83
RK   1210  0.0059    0.02            TRAP      19     1.0
RK   1161  0.0083    0.02            TRAP      98     1.0
KK170820     FROM  170810
RK    402  0.0060   0.013            CIRC     2.5
KK170820    BASIN
BA 0.065
LS      0      77       0       0      98       0
UK    139  0.0100    0.31      61
UK     62  0.0100    0.10      39
RK   1138  0.0083    0.03            TRAP      12     1.0
RK   2653  0.0059    0.02            TRAP      68     1.0
KK170820 COMBINE
HC      2
KK170070     FROM  170820
RK   1018  0.0050   0.013            CIRC     3.5
KK170070    BASIN
BA 0.128
LS      0      77       0       0      98       0
UK     35  0.0100    0.39      15
UK    185  0.0100    0.10      85
RK   1226  0.0083    0.02            TRAP      96     1.0
RK   2472  0.0059    0.02            TRAP      77     1.0
KK170070 COMBINE
HC      3
KK170310    BASIN
BA 0.062
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   1330  0.0059    0.02            TRAP      25     1.0
RK   2479  0.0083    0.02            TRAP      25     1.0
KK170320     FROM  170310
RK   1318  0.0042   0.013            CIRC     4.5
KK170410    BASIN
BA 0.064
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      76
UK     50  0.0100    0.10      24
RK   1077  0.0059    0.02            TRAP      29     1.0
RK   1309  0.0083    0.02            TRAP      30     1.0
KK170320     FROM  170410
RK   1297  0.0083   0.017            TRAP    45.0       1
KK170320    BASIN
BA 0.062
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      70
UK     50  0.0100    0.10      30
RK    934  0.0059    0.02            TRAP      38     1.0
RK   1297  0.0083    0.02            TRAP      45     1.0
KK170320 COMBINE
HC      3
```

```
KK170330    FROM  170320
RK  1254  0.0015   0.013            CIRC     6.0
KK170330   BASIN
BA 0.024
LS     0      79       0       0      98       0
UK   151  0.0100    0.30      64
UK    52  0.0100    0.10      36
RK  1187  0.0059    0.03            TRAP      11     1.0
RK  1154  0.0059    0.02            TRAP      60     1.0
KK170330 COMBINE
HC     2
KK170340    FROM  170330
RK   247  0.0054   0.013            CIRC     6.5
KK170510   BASIN
BA 0.065
LS     0      79       0       0      98       0
UK   147  0.0100    0.30      62
UK    53  0.0100    0.10      38
RK  1235  0.0059    0.02            TRAP      29     1.0
RK  1297  0.0083    0.02            TRAP      64     1.0
KK170520    FROM  170510
RK  1010  0.0083   0.017            TRAP    52.5       1
KK170520   BASIN
BA 0.040
LS     0      79       0       0      98       0
UK   150  0.0100    0.30      73
UK    50  0.0100    0.10      27
RK  1132  0.0059    0.02            TRAP      38     1.0
RK   793  0.0083    0.02            TRAP      23     1.0
KK170520 COMBINE
HC     2
KK170340    FROM  170520
RK   161  0.0058   0.013            CIRC     4.0
KK170340   BASIN
BA 0.053
LS     0      79       0       0      98       0
UK   153  0.0100    0.30      57
UK    59  0.0100    0.10      43
RK   377  0.0059    0.02            TRAP      23     1.0
RK  1932  0.0083    0.02            TRAP      45     1.0
KK170340 COMBINE
HC     3
KK170350    FROM  170340
RK  1783  0.0022   0.013            CIRC     6.3
KK170710   BASIN
BA 0.029
LS     0      79       0       0      98       0
UK    21  0.0100    0.40      11
UK   199  0.0100    0.10      89
RK  1241  0.0059    0.02            TRAP      23     1.0
RK   561  0.0083    0.02            TRAP      60     1.0
KK170350    FROM  170710
RK   603  0.0119   0.013            CIRC     2.5
KK170350   BASIN
BA 0.011
LS     0      79       0       0      98       0
UK   124  0.0100    0.32      38
UK    94  0.0100    0.10      62
RK   341  0.0059    0.02            TRAP      23     1.0
RK   607  0.0083    0.02            TRAP      53     1.0
```

```
KK170350 COMBINE
HC      3
KK170360     FROM  170350
RK    617  0.0035   0.013            CIRC     6.8
KK170360   BASIN
BA 0.015
LS      0      79       0       0      98       0
UK     32  0.0100    0.39      16
UK    200  0.0100    0.10      84
RK    602  0.0059    0.03            TRAP      15     1.0
KK170360 COMBINE
HC      2
KK170370     FROM  170360
RK    725  0.0035   0.013            CIRC     7.0
KK170370   BASIN
BA 0.013
LS      0      79       0       0      98       0
UK     36  0.0100    0.39      16
UK    200  0.0100    0.10      84
RK    725  0.0059    0.03            TRAP      15     1.0
KK170370 COMBINE
HC      2
KK170070     FROM  170370
RK    429  0.0029   0.013            CIRC     7.3
KK170070 COMBINE
HC      2
KK170080     FROM  170070
RK    447  0.0092   0.013            CIRC    12.0
KK170910   BASIN
BA 0.054
LS      0      77       0       0      98       0
UK    144  0.0100    0.31      42
UK     67  0.0100    0.10      58
RK   1453  0.0083    0.02            TRAP      15     1.0
RK   2098  0.0083    0.03            TRAP      15     1.0
KK170920     FROM  170910
RK    594  0.0040   0.013            CIRC     4.5
KK170920   BASIN
BA 0.018
LS      0      77       0       0      98       0
UK    123  0.0100    0.32      16
UK     91  0.0100    0.10      84
RK    578  0.0083    0.02            TRAP      12     1.0
RK    552  0.0083    0.03            TRAP      12     1.0
KK170920 COMBINE
HC      2
KK170080     FROM  170920
RK    470  0.0282   0.013            CIRC     6.0
KK170080   BASIN
BA 0.006
LS      0      77       0       0      98       0
UK    157  0.0100    0.30      17
UK     71  0.0100    0.10      83
RK    432  0.0083    0.03            TRAP      12     1.0
RK    438  0.0059    0.03            TRAP      12     1.0
KK170080 COMBINE
HC      3
KK170090     FROM  170080
RK   1184  0.0021   0.013            CIRC    12.0
KK170100     FROM  170090
```

```
RK  2624  0.0021   0.013            DEEP    11.0
KK170110    FROM  170100
RK  1188  0.0024   0.013            DEEP     8.0
*
KKCP651 COMBINE sub-basins 13-570, 16-440, 17-110 and R641
HC     4
*
*
KK R651
KM ROUTE CP651 TO CP661
RS     1              -1
RC 0.030   0.020   0.030    1400  0.0060
RX  8788    9130    9292    9708    9719    9984   10051   10234
RY  1247    1242    1237    1234    1234    1237    1242    1248
*
* 06-1020
*
KK061010   BASIN
BA 0.052
LS     0      79       0       0      98       0
UK    56  0.0100    0.37      17
UK   162  0.0100    0.10      83
RK  2009  0.0050    0.02            TRAP      38     1.0
KK061020    FROM  061010
RK   216  0.0049   0.017            TRAP    37.5       1
*
* 13-430
*
KK130410   BASIN
BA 0.049
LS     0      79       0       0      98       0
UK   144  0.0100    0.31      62
UK    57  0.0100    0.10      38
RK  1212  0.0017    0.02            TRAP      38     1.0
RK   964  0.0032    0.02            TRAP      45     1.0
KK130420    FROM  130410
RK  1032  0.0032   0.017            TRAP    37.5       1
KK130420   BASIN
BA 0.046
LS     0      79       0       0      98       0
UK   138  0.0100    0.31      59
UK    71  0.0100    0.10      41
RK  1206  0.0017    0.02            TRAP      45     1.0
RK  1328  0.0032    0.02            TRAP      41     1.0
KK130420 COMBINE
HC     2
KK130430    FROM  130420
RK   272  0.0029   0.013            CIRC     2.0
*
KKCP661 COMBINE sub-basins 6-1020, 13-430 and R651
HC     3
*
KK R661
KM ROUTE CP661 TO CP671
RS     1              -1
RC 0.035   0.020   0.035    1300  0.0023
RX  8777    9011    9082    9425    9684   10042   10078   10209
RY  1244    1239    1234    1229    1230    1234    1238    1242
*
* 06-600
```

```
*
KK060510   BASIN
BA 0.025
LS     0      79       0       0      98       0
UK    26  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   424  0.0050    0.02            TRAP      38     1.0
RK   930  0.0049    0.02            TRAP      53     1.0
KK060520    FROM  060510
RK   587  0.0021   0.013            CIRC     3.0
KK060520   BASIN
BA 0.020
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   399  0.0049    0.02            TRAP      60     1.0
RK   587  0.0050    0.02            TRAP      60     1.0
KK060520 COMBINE
HC     2
KK060530    FROM  060520
RK   459  0.0101   0.013            CIRC     4.0
KK060530   BASIN
BA 0.013
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1261  0.0050    0.02            TRAP      60     1.0
KK060530 COMBINE
HC     2
KK060540    FROM  060530
RK   400  0.0101   0.013            CIRC     4.0
KK060540   BASIN
BA 0.034
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1236  0.0050    0.02            TRAP      23     1.0
RK   693  0.0049    0.02            TRAP      45     1.0
KK060540 COMBINE
HC     2
KK060710   BASIN
BA 0.010
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   891  0.0050    0.02            TRAP      60     1.0
KK060540    FROM  060710
RK   354  0.0057   0.013            CIRC     3.0
KK060540 COMBINE
HC     2
KK060810   BASIN
BA 0.008
LS     0      79       0       0      98       0
UK    32  0.0100    0.39      16
UK   187  0.0100    0.10      84
RK  2130  0.0050    0.02            TRAP      60     1.0
KK060540    FROM  060810
RK   756  0.0020   0.013            CIRC     3.0
KK060540 COMBINE
HC     2
```

```
KK060550    FROM  060540
RK  1480  0.0048   0.013            CIRC     5.0
KK060550   BASIN
BA 0.041
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   589  0.0049    0.02            TRAP      25     1.0
RK  1438  0.0050    0.02            TRAP      46     1.0
KK060550 COMBINE
HC     2
KK060910   BASIN
BA 0.011
LS     0      79       0       0      98       0
UK    25  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  1459  0.0050    0.02            TRAP      75     1.0
KK060920    FROM  060910
RK  1572  0.0045   0.013            CIRC     4.0
KK060920   BASIN
BA 0.059
LS     0      79       0       0      98       0
UK    23  0.0100    0.40      15
UK   196  0.0100    0.10      85
RK  1397  0.0050    0.02            TRAP      60     1.0
RK  1189  0.0049    0.02            TRAP      71     1.0
KK060920 COMBINE
HC     2
KK060550    FROM  060920
RK   650  0.0048   0.013            CIRC     6.0
KK060550 COMBINE
HC     2
KK060560    FROM  060550
RK   674  0.0050   0.013            CIRC     7.0
KK060560   BASIN
BA 0.041
LS     0      79       0       0      98       0
UK    23  0.0100    0.40      16
UK   196  0.0100    0.10      84
RK   583  0.0049    0.02            TRAP      30     1.0
RK  1260  0.0050    0.02            TRAP      60     1.0
KK060560 COMBINE
HC     2
KK060570    FROM  060560
RK   662  0.0080   0.013            CIRC     8.0
KK060570   BASIN
BA 0.054
LS     0      79       0       0      98       0
UK    74  0.0100    0.36      24
UK   137  0.0100    0.10      76
RK   563  0.0049    0.02            TRAP      38     1.0
RK  2539  0.0050    0.02            TRAP      45     1.0
KK060570 COMBINE
HC     2
KK060580    FROM  060570
RK   648  0.0077   0.013            CIRC     8.0
KK060580   BASIN
BA 0.060
LS     0      79       0       0      98       0
UK    29  0.0100    0.39       7
```

```
UK    190  0.0100    0.10      93
RK    604  0.0049    0.02            TRAP     38     1.0
RK   2533  0.0050    0.02            TRAP     45     1.0
KK060580 COMBINE
HC      2
KK060590    FROM  060580
RK    347  0.0077   0.013            CIRC     8.0
KK060590   BASIN
BA 0.022
LS      0      79       0       0      98       0
UK    151  0.0100    0.30      46
UK     50  0.0100    0.10      54
RK   2046  0.0050    0.02            TRAP     13     1.0
KK060590 COMBINE
HC      2
KK060600    FROM  060590
RK    255  0.0077   0.013            CIRC     8.0
*
* 13-80
*
KK130010   BASIN
BA 0.052
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1037  0.0017    0.02            TRAP     38     1.0
RK    966  0.0032    0.02            TRAP     45     1.0
KK130020    FROM  130010
RK    204  0.0032   0.017            TRAP   41.3      1
KK130020   BASIN
BA 0.017
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1358  0.0017    0.02            TRAP     38     1.0
KK130020 COMBINE
HC      2
KK130030    FROM  130020
RK    581  0.0032   0.017            TRAP   41.3      1
KK130030   BASIN
BA 0.046
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1888  0.0032    0.02            TRAP     45     1.0
KK130030 COMBINE
HC      2
KK130040    FROM  130030
RK    798  0.0032   0.013            TRAP   10.0     1.0
KK130110   BASIN
BA 0.093
LS      0      79       0       0      98       0
UK    291  0.0100    0.21      22
UK     97  0.0100    0.10      78
RK   1985  0.0017    0.02            TRAP     83     1.0
KK130120    FROM  130110
RK    701  0.0011   0.013            CIRC     6.0
KK130120   BASIN
BA 0.041
LS      0      79       0       0      98       0
```

```
UK   150  0.0100    0.30      57
UK    50  0.0100    0.10      43
RK  1954  0.0032    0.02            TRAP     38     1.0
KK130120 COMBINE
HC     2
KK130040    FROM  130120
RK   523  0.0011   0.013            CIRC     6.0
KK130040   BASIN
BA 0.018
LS     0      79       0       0      98       0
UK   107  0.0100    0.33      34
UK   100  0.0100    0.10      66
RK   794  0.0032    0.02            TRAP     12     1.0
KK130040 COMBINE
HC     3
KK130050    FROM  130040
RK  1323  0.0011   0.013            CIRC     6.0
KK130210   BASIN
BA 0.005
LS     0      79       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   595  0.0017    0.02            TRAP     19     1.0
KK130210 STORAGE
RS     1    STOR
SV  0.00    0.60    0.60    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   1.0     500     3.0     1.5
KK130050    FROM  130210
RK   865  0.0012   0.017            TRAP   73.5       1
KK130310   BASIN
BA 0.014
LS     0      79       0       0      98       0
UK   150  0.0100    0.30      65
UK    50  0.0100    0.10      35
RK  1656  0.0032    0.02            TRAP     60     1.0
KK130050    FROM  130310
RK   898  0.0032   0.017            TRAP   52.5       1
KK130050   BASIN
BA 0.045
LS     0      79       0       0      98       0
UK    74  0.0100    0.36      25
UK   138  0.0100    0.10      75
RK   815  0.0032    0.02            TRAP     60     1.0
RK  1323  0.0017    0.02            TRAP     83     1.0
KK130050 COMBINE
HC     4
KK130060    FROM  130050
RK  1270  0.0025   0.013            CIRC     6.0
KK130060   BASIN
BA 0.039
LS     0      79       0       0      98       0
UK   134  0.0100    0.31      58
UK    69  0.0100    0.10      42
RK   588  0.0032    0.02            TRAP     36     1.0
RK  1270  0.0017    0.02            TRAP     83     1.0
KK130060 COMBINE
HC     2
KK130070    FROM  130060
```

```
RK  1215  0.0025   0.013            CIRC     6.0
KK130070   BASIN
BA 0.012
LS     0      79       0       0      98       0
UK    37  0.0100    0.39      22
UK   180  0.0100    0.10      78
RK  1208  0.0017    0.02            TRAP      83     1.0
KK130070 COMBINE
HC     2
KK130080    FROM  130070
RK   305  0.0074   0.013            CIRC     6.0
*
KKCP671 COMBINE sub-basins 6-600, 13-80 and R661
HC     3
*
KK R671
KM ROUTE CP671 TO CP681
RS     1              -1
RC 0.035   0.020   0.035     700  0.0023
RX  8777    9011    9082    9425    9684   10042   10078   10209
RY  1244    1239    1234    1229    1230    1234    1238    1242
*
* 06-1120
*
KK061110   BASIN
BA 0.053
LS     0      79       0       0      98       0
UK    65  0.0100    0.37      15
UK   148  0.0100    0.10      85
RK   597  0.0050    0.02            TRAP      45     1.0
RK  1273  0.0049    0.02            TRAP      53     1.0
KK061120    FROM  061110
RK   269  0.0044   0.013            CIRC     1.5
*
* 12-20
*
KK120010   BASIN
BA 0.066
LS     0      79       0       0      98       0
UK   123  0.0100    0.32      54
UK    86  0.0100    0.10      46
RK   706  0.0027    0.02            TRAP      38     1.0
RK  1278  0.0050    0.02            TRAP      38     1.0
KK120020    FROM  120010
RK   227  0.0045   0.013            CIRC     1.5
*
KKCP681 COMBINE sub-basins 6-1120, 12-20 and R671
HC     3
*
KK R681
KM ROUTE CP681 TO CP691
RS     1              -1
RC 0.035   0.020   0.035     500  0.0023
RX  8777    9011    9082    9425    9684   10042   10078   10209
RY  1244    1239    1234    1229    1230    1234    1238    1242
*
* 06-130
*
KK060010   BASIN
BA 0.012
```

```
LS      0      79       0       0      98       0
UK     53  0.0100    0.38      17
UK    197  0.0100    0.10      83
RK    214  0.0050    0.02            TRAP      38     1.0
RK    774  0.0049    0.02            TRAP      60     1.0
KK060020     FROM  060010
RK    806  0.0016   0.013            CIRC     3.0
KK060020    BASIN
BA 0.026
LS      0      79       0       0      98       0
UK     62  0.0100    0.37      16
UK    169  0.0100    0.10      84
RK    757  0.0050    0.02            TRAP      60     1.0
RK   1252  0.0049    0.02            TRAP      68     1.0
KK060020 COMBINE
HC      2
KK060030     FROM  060020
RK    567  0.0053   0.013            CIRC     4.0
KK060030    BASIN
BA 0.011
LS      0      79       0       0      98       0
UK     20  0.0100    0.40      15
UK    200  0.0100    0.10      85
RK    558  0.0049    0.02            TRAP      30     1.0
RK    567  0.0050    0.02            TRAP      47     1.0
KK060030 COMBINE
HC      2
KK060040     FROM  060030
RK    689  0.0032   0.013            CIRC     4.5
KK060210    BASIN
BA 0.018
LS      0      79       0       0      98       0
UK    138  0.0100    0.31      15
UK     63  0.0100    0.10      85
RK    375  0.0049    0.02            TRAP      45     1.0
RK   1239  0.0050    0.02            TRAP      41     1.0
KK060040     FROM  060210
RK    696  0.0060   0.013            CIRC     3.5
KK060040    BASIN
BA 0.019
LS      0      79       0       0      98       0
UK     32  0.0100    0.39      15
UK    187  0.0100    0.10      85
RK    558  0.0049    0.02            TRAP      38     1.0
RK    689  0.0050    0.02            TRAP      47     1.0
KK060040 COMBINE
HC      3
KK060050     FROM  060040
RK    653  0.0073   0.013            CIRC     6.0
KK060050    BASIN
BA 0.030
LS      0      79       0       0      98       0
UK     67  0.0100    0.36      15
UK    145  0.0100    0.10      85
RK    568  0.0049    0.02            TRAP      53     1.0
RK   1166  0.0050    0.02            TRAP      49     1.0
KK060050 COMBINE
HC      2
KK060060     FROM  060050
RK    672  0.0083   0.013            CIRC     6.0
```

```
KK060060   BASIN
BA 0.009
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   282  0.0049    0.02            TRAP      25     1.0
RK   671  0.0050    0.02            TRAP      47     1.0
KK060060 COMBINE
HC     2
KK060310   BASIN
BA 0.023
LS     0      79       0       0      98       0
UK    36  0.0100    0.39      16
UK   200  0.0100    0.10      84
RK   565  0.0049    0.02            TRAP      53     1.0
RK   646  0.0050    0.02            TRAP      71     1.0
KK060320    FROM  060310
RK  1232  0.0045   0.013            CIRC     3.0
KK060320   BASIN
BA 0.055
LS     0      79       0       0      98       0
UK    33  0.0100    0.39      15
UK   184  0.0100    0.10      85
RK  1018  0.0050    0.02            TRAP      52     1.0
RK  1287  0.0049    0.02            TRAP      75     1.0
KK060320 COMBINE
HC     2
KK060330    FROM  060320
RK   578  0.0045   0.013            CIRC     4.5
KK060330   BASIN
BA 0.016
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   604  0.0049    0.02            TRAP      50     1.0
RK   578  0.0050    0.02            TRAP      55     1.0
KK060330 COMBINE
HC     2
KK060340    FROM  060330
RK   363  0.0045   0.013            CIRC     5.0
KK060340   BASIN
BA 0.009
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   639  0.0049    0.02            TRAP      13     1.0
RK   363  0.0050    0.02            TRAP      55     1.0
KK060340 COMBINE
HC     2
KK060060    FROM  060340
RK   289  0.0045   0.013            CIRC     5.0
KK060060 COMBINE
HC     2
KK060070    FROM  060060
RK   717  0.0030   0.013            CIRC     7.5
KK060070   BASIN
BA 0.030
LS     0      79       0       0      98       0
UK    25  0.0100    0.40      15
UK   197  0.0100    0.10      85
```

```
RK  1248  0.0050    0.02            TRAP     59     1.0
RK   675  0.0049    0.02            TRAP     55     1.0
KK060070 COMBINE
HC     2
KK060080    FROM  060070
RK   514  0.0106   0.013            CIRC    8.0
KK060080   BASIN
BA 0.010
LS     0      79       0       0      98       0
UK    23  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   646  0.0050    0.02            TRAP     19     1.0
RK   514  0.0049    0.02            TRAP     60     1.0
KK060080 COMBINE
HC     2
KK060090    FROM  060080
RK   417  0.0010   0.015            DEEP    7.0
KK060090   BASIN
BA 0.011
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   676  0.0050    0.02            TRAP     45     1.0
RK   417  0.0049    0.02            TRAP     44     1.0
KK060090 COMBINE
HC     2
KK060410   BASIN
BA 0.015
LS     0      79       0       0      98       0
UK   106  0.0100    0.33      15
UK   100  0.0100    0.10      85
RK   522  0.0049    0.02            TRAP     23     1.0
RK   715  0.0050    0.02            TRAP     23     1.0
KK060420    FROM  060410
RK   572  0.0024   0.013            CIRC    4.0
KK060090    FROM  060420
RK   132  0.0045   0.013            CIRC    4.0
KK060090 COMBINE
HC     2
KK060100    FROM  060090
RK   305  0.0010   0.013            CIRC    8.0
KK060100   BASIN
BA 0.026
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   512  0.0049    0.02            TRAP     53     1.0
RK  1183  0.0050    0.02            TRAP     46     1.0
KK060100 COMBINE
HC     2
KK060110    FROM  060100
RK   681  0.0010   0.013            CIRC    8.0
KK060110   BASIN
BA 0.030
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   573  0.0049    0.02            TRAP     41     1.0
RK  1228  0.0050    0.02            TRAP     29     1.0
KK060110 COMBINE
```

```
HC      2
KK060120    FROM  060110
RK    859  0.0010   0.013            CIRC     8.0
KK060120   BASIN
BA 0.018
LS      0      79       0       0      98       0
UK     20  0.0100    0.40       6
UK    200  0.0100    0.10      94
RK    562  0.0050    0.02            TRAP      12     1.0
RK   1238  0.0049    0.02            TRAP      23     1.0
KK060120 COMBINE
HC      2
KK060130    FROM  060120
RK    438  0.0010   0.013            CIRC     8.0
*
KKCP691 COMBINE sub-basin 6-130, and R681
HC      2
*
KK R691
KM ROUTE CP691 TO CP701
RS      1              -1
RC 0.036   0.030   0.036    1500  0.0020
RX  9154    9522    9540    9994   10003   10149   10165   10181
RY  1236    1231    1227    1223    1223    1227    1231    1236
*
* 05-1930
*
KK051910   BASIN
BA 0.011
LS      0      79       0       0      98       0
UK     37  0.0100    0.39      21
UK    181  0.0100    0.10      79
RK    341  0.0033    0.02            TRAP      19     1.0
RK    530  0.0038    0.02            TRAP      60     1.0
KK051920    FROM  051910
RK   1930  0.0030   0.013            CIRC     4.0
KK051920   BASIN
BA 0.060
LS      0      79       0       0      98       0
UK    138  0.0100    0.31      60
UK     64  0.0100    0.10      40
RK   1178  0.0033    0.02            TRAP      38     1.0
RK   1130  0.0038    0.02            TRAP      19     1.0
KK051920 COMBINE
HC      2
KK051930    FROM  051920
RK    165  0.0030   0.013            CIRC     4.0
*
* 05-1570
*
KK051510   BASIN
BA 0.010
LS      0      79       0       0      98       0
UK     59  0.0100    0.38      18
UK    200  0.0100    0.10      82
RK    139  0.0038    0.02            TRAP      41     1.0
RK    521  0.0033    0.02            TRAP      71     1.0
KK051520    FROM  051510
RK    783  0.0050   0.013            CIRC     6.0
KK051610   BASIN
```

```
BA 0.021
LS     0      79       0       0      98       0
UK   165  0.0100    0.32      25
UK   200  0.0100    0.10      75
RK   624  0.0038    0.02            TRAP      41     1.0
RK   792  0.0033    0.02            TRAP      60     1.0
KK051520    FROM  051610
RK   601  0.0047   0.013            CIRC     5.0
KK051520   BASIN
BA 0.023
LS     0      79       0       0      98       0
UK   179  0.0100    0.31      26
UK   198  0.0100    0.10      74
RK   473  0.0038    0.02            TRAP      60     1.0
RK   704  0.0033    0.02            TRAP      71     1.0
KK051520 COMBINE
HC     3
KK051710   BASIN
BA 0.004
LS     0      79       0       0      98       0
UK   146  0.0100    0.33      24
UK   200  0.0100    0.10      76
RK   515  0.0038    0.02            TRAP      30     1.0
RK   287  0.0033    0.02            TRAP      30     1.0
KK051520    FROM  051710
RK   567  0.0032   0.013            CIRC     4.0
KK051520 COMBINE
HC     2
KK051530    FROM  051520
RK   926  0.0043   0.013            CIRC     7.2
KK051530   BASIN
BA 0.041
LS     0      79       0       0      98       0
UK    26  0.0100    0.40      15
UK   193  0.0100    0.10      85
RK   889  0.0038    0.02            TRAP      38     1.0
RK   860  0.0033    0.02            TRAP      60     1.0
KK051530 COMBINE
HC     2
KK051540    FROM  051530
RK   320  0.0043   0.013            CIRC     7.2
KK051540   BASIN
BA 0.004
LS     0      79       0       0      98       0
UK    44  0.0100    0.38      16
UK   172  0.0100    0.10      84
RK   233  0.0038    0.02            TRAP      12     1.0
RK   265  0.0033    0.02            TRAP      60     1.0
KK051540 COMBINE
HC     2
KK051810   BASIN
BA 0.005
LS     0      79       0       0      98       0
UK    23  0.0100    0.40      16
UK   196  0.0100    0.10      84
RK   272  0.0033    0.02            TRAP      19     1.0
RK   272  0.0038    0.02            TRAP      30     1.0
KK051540    FROM  051810
RK   218  0.0045   0.013            CIRC     4.5
KK051540 COMBINE
```

```
HC      2
KK051550    FROM  051540
RK   273  0.0025   0.013            DEEP     5.0
KK051560    FROM  051550
RK   203  0.0018   0.013            CIRC     8.1
KK051560   BASIN
BA 0.008
LS     0      79       0       0      98       0
UK   116  0.0100    0.33      47
UK    89  0.0100    0.10      53
RK  1126  0.0033    0.02            TRAP      60     1.0
KK051560 COMBINE
HC      2
KK051570    FROM  051560
RK   228  0.0018   0.013            CIRC     8.1
*
* 12-120
*
KK120110   BASIN
BA 0.068
LS     0      79       0       0      98       0
UK   140  0.0100    0.31      60
UK    61  0.0100    0.10      40
RK  1237  0.0027    0.02            TRAP      60     1.0
RK  1053  0.0050    0.02            TRAP      98     1.0
KK120120    FROM  120110
RK   490  0.0050   0.017            TRAP    60.0       1
*
KKCP701 COMBINE sub-basins 5-1930, 5-1570, 12-120 and R691
HC      4
*
KK R701
KM ROUTE CP701 TO CP711
RS     1              -1
RC 0.036   0.030   0.036    1500  0.0025
RX  9334    9561    9589    9744    9990   10203   10377   10460
RY  1235    1230    1225    1217    1217    1225    1232    1234
*
* 12-240
*
KK120210   BASIN
BA 0.023
LS     0      79       0       0      98       0
UK    70  0.0100    0.36      26
UK   142  0.0100    0.10      74
RK   549  0.0050    0.02            TRAP      45     1.0
RK  1109  0.0027    0.02            TRAP      90     1.0
KK120220    FROM  120210
RK   280  0.0064   0.013            CIRC     4.0
KK120230    FROM  120220
RK   172  0.0053   0.013            CIRC     4.5
KK120310   BASIN
BA 0.006
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      14
UK   200  0.0100    0.10      86
RK   370  0.0027    0.02            TRAP      74     1.0
KK120320    FROM  120310
RK   503  0.0016   0.013            CIRC     3.0
KK120320   BASIN
```

```
BA 0.012
LS     0      79       0       0      98       0
UK    31  0.0100    0.39      10
UK   187  0.0100    0.10      90
RK   723  0.0050    0.02            TRAP      25     1.0
RK   503  0.0027    0.02            TRAP      74     1.0
KK120320 COMBINE
HC     2
KK120230    FROM  120320
RK   135  0.0016   0.013            CIRC     4.0
KK120230   BASIN
BA 0.022
LS     0      79       0       0      98       0
UK   145  0.0100    0.30      63
UK    56  0.0100    0.10      37
RK  2319  0.0050    0.02            TRAP      38     1.0
KK120230 COMBINE
HC     3
KK120240    FROM  120230
RK   567  0.0022   0.013            CIRC     5.5
*
KKCP711 COMBINE sub-basin 12-240 and R701
HC     2
*
KK R711
KM ROUTE CP711 TO CP721
RS     1              -1
RC 0.035   0.030   0.035    1100  0.0025
RX  9334    9561    9589    9744    9990   10203   10377   10460
RY  1235    1230    1225    1217    1217    1225    1232    1234
*
* 05-2020
*
KK052010   BASIN
BA 0.047
LS     0      79       0       0      98       0
UK   146  0.0100    0.30      63
UK    55  0.0100    0.10      37
RK   966  0.0033    0.02            TRAP      38     1.0
RK  1174  0.0038    0.02            TRAP      19     1.0
KK052020    FROM  052010
RK   300  0.0033   0.030            TRAP     5.0     1.0
*
* 05-160
*
KK050010   BASIN
BA 0.066
LS     0      81       0       0      98       0
UK   144  0.0100    0.30      52
UK    57  0.0100    0.10      48
RK  1189  0.0033    0.02            TRAP      30     1.0
RK  1197  0.0038    0.02            TRAP      60     1.0
KK050020    FROM  050010
RK  1370  0.0038   0.017            TRAP    37.5       1
KK050210   BASIN
BA 0.054
LS     0      79       0       0      98       0
UK   200  0.0100    0.30      28
UK   200  0.0100    0.10      72
RK   564  0.0038    0.02            TRAP      23     1.0
```

```
RK  1199  0.0033    0.02            TRAP     23     1.0
KK050210 STORAGE
RS     1    STOR
SV  0.00    7.72    7.72    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   1.0     500     3.0     1.5
KK050020    FROM  050210
RK   278  0.0033   0.017            TRAP   60.0      1
KK050020   BASIN
BA 0.009
LS     0      79       0       0      98       0
UK   166  0.0100    0.30      39
UK    98  0.0100    0.10      61
RK  1304  0.0038    0.02            TRAP     60     1.0
KK050020 COMBINE
HC     3
KK050030    FROM  050020
RK   347  0.0038   0.017            TRAP   37.5      1
KK050030   BASIN
BA 0.020
LS     0      79       0       0      98       0
UK   150  0.0100    0.30      15
UK    50  0.0100    0.10      85
RK   278  0.0038    0.02            TRAP      9     1.0
RK  1468  0.0033    0.02            TRAP      9     1.0
KK050030 STORAGE
RS     1    STOR
SV  0.00    6.63    6.63    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    0.50    1.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   0.5     500     3.0     1.5
KK050030 COMBINE
HC     2
KK050040    FROM  050030
RK  2206  0.0038   0.017            TRAP   37.5      1
KK050040   BASIN
BA 0.123
LS     0      79       0       0      98       0
UK   150  0.0100    0.30      57
UK    50  0.0100    0.10      43
RK  2230  0.0038    0.02            TRAP     38     1.0
RK  2654  0.0038    0.02            TRAP     38     1.0
KK050040 COMBINE
HC     2
KK050050    FROM  050040
RK   491  0.0334   0.013            CIRC    2.5
KK050310   BASIN
BA 0.041
LS     0      79       0       0      98       0
UK   200  0.0100    0.30      28
UK   200  0.0100    0.10      72
RK   816  0.0033    0.02            TRAP     30     1.0
RK   848  0.0038    0.02            TRAP     30     1.0
KK050310 STORAGE
RS     1    STOR
SV  0.00    0.08    0.16    0.24    0.31    0.40    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    3.00    4.00    5.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00
ST   4.0     500     3.0     1.5
```

```
KK050050     FROM  050310
RK    977  0.0038   0.017            TRAP    37.5       1
KK050050 COMBINE
HC      2
KK050060     FROM  050050
RK   1465  0.0033   0.027            TRAP     5.0     1.0
KK050060    BASIN
BA 0.055
LS      0       79       0       0     98       0
UK    105  0.0100    0.34      17
UK    160  0.0100    0.10      83
RK   5129  0.0038    0.03            TRAP      60     1.0
KK050060 STORAGE
RS      1     STOR
SV   0.00     3.73    3.73    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00     0.50    1.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00     0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    0.5      500     3.0     1.5
KK050060 COMBINE
HC      2
KK050070     FROM  050060
RK   1429  0.0033   0.030            TRAP     5.0     1.0
KK050410    BASIN
BA 0.041
LS      0       79       0       0     98       0
UK     77  0.0100    0.36      25
UK    137  0.0100    0.10      75
RK    694  0.0038    0.02            TRAP      38     1.0
RK   1177  0.0033    0.02            TRAP      38     1.0
KK050070     FROM  050410
RK    187  0.0038   0.017            TRAP    60.0       1
KK050070    BASIN
BA 0.084
LS      0       79       0       0     98       0
UK     22  0.0100    0.40       8
UK    198  0.0100    0.10      92
RK   3223  0.0038    0.02            TRAP      38     1.0
KK050070 COMBINE
HC      3
KK050080     FROM  050070
RK   1112  0.0027   0.013            CIRC     4.5
KK050080    BASIN
BA 0.021
LS      0       79       0       0     98       0
UK    132  0.0100    0.31      60
UK     71  0.0100    0.10      40
RK   1365  0.0033    0.02            TRAP      38     1.0
KK050080 COMBINE
HC      2
KK050090     FROM  050080
RK    416  0.0052   0.013            CIRC     4.0
KK050510    BASIN
BA 0.054
LS      0       79       0       0     98       0
UK    109  0.0100    0.33      48
UK     97  0.0100    0.10      52
RK   1096  0.0038    0.02            TRAP      41     1.0
RK   1304  0.0033    0.02            TRAP      41     1.0
KK050090     FROM  050510
RK    626  0.0052   0.013            CIRC     4.0
```

```
KK050090   BASIN
BA 0.037
LS     0      79       0       0      98       0
UK    44  0.0100    0.38      23
UK   172  0.0100    0.10      77
RK   965  0.0038    0.02            TRAP      23     1.0
RK  1064  0.0033    0.02            TRAP      45     1.0
KK050090 COMBINE
HC     3
KK050100    FROM  050090
RK   609  0.0028   0.013            CIRC     4.5
KK050100   BASIN
BA 0.045
LS     0      79       0       0      98       0
UK    20  0.0100    0.40       7
UK   200  0.0100    0.10      93
RK   505  0.0033    0.02            TRAP      30     1.0
RK  1727  0.0038    0.02            TRAP      23     1.0
KK050100 COMBINE
HC     2
KK050110    FROM  050100
RK   692  0.0058   0.013            CIRC     4.0
KK050110   BASIN
BA 0.010
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   587  0.0033    0.02            TRAP      46     1.0
RK   406  0.0038    0.02            TRAP      77     1.0
KK050110 COMBINE
HC     2
KK050610   BASIN
BA 0.075
LS     0      79       0       0      98       0
UK   131  0.0100    0.32      56
UK    72  0.0100    0.10      44
RK  1462  0.0038    0.02            TRAP      45     1.0
RK  1243  0.0033    0.02            TRAP      60     1.0
KK050620    FROM  050610
RK  1052  0.0033   0.017            TRAP    60.0       1
KK050620   BASIN
BA 0.107
LS     0      79       0       0      98       0
UK   147  0.0100    0.30      56
UK    53  0.0100    0.10      44
RK   940  0.0033    0.02            TRAP      41     1.0
RK  2545  0.0038    0.02            TRAP      60     1.0
KK050620 COMBINE
HC     2
KK050630    FROM  050620
RK  1412  0.0033   0.017            TRAP    60.0       1
KK050630   BASIN
BA 0.062
LS     0      79       0       0      98       0
UK   138  0.0100    0.31      33
UK    64  0.0100    0.10      67
RK  1205  0.0038    0.02            TRAP      41     1.0
RK  1348  0.0033    0.02            TRAP      60     1.0
KK050630 COMBINE
HC     2
```

```
KK050640    FROM  050630
RK  1250  0.0033   0.017            TRAP    60.0      1
KK050640   BASIN
BA 0.032
LS     0      79       0       0      98       0
UK    64  0.0100    0.37      15
UK   149  0.0100    0.10      85
RK  1605  0.0038    0.02            TRAP      41     1.0
RK  1168  0.0033    0.02            TRAP      60     1.0
KK050640 COMBINE
HC     2
KK050710   BASIN
BA 0.005
LS     0      79       0       0      98       0
UK    21  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   610  0.0038    0.02            TRAP      55     1.0
KK050720    FROM  050710
RK   316  0.0045   0.013            CIRC     5.5
KK050720   BASIN
BA 0.028
LS     0      79       0       0      98       0
UK    57  0.0100    0.38      17
UK   188  0.0100    0.10      83
RK   580  0.0038    0.02            TRAP      45     1.0
RK  1594  0.0033    0.02            TRAP      55     1.0
KK050720 COMBINE
HC     2
KK050640    FROM  050720
RK   422  0.0045   0.013            CIRC     5.5
KK050640 COMBINE
HC     2
KK050810   BASIN
BA 0.013
LS     0      79       0       0      98       0
UK    88  0.0100    0.36      20
UK   200  0.0100    0.10      80
RK   164  0.0033    0.02            TRAP      28     1.0
RK  1031  0.0038    0.02            TRAP      55     1.0
KK050640    FROM  050810
RK   705  0.0025   0.013            CIRC     4.0
KK050640 COMBINE
HC     2
KK050650    FROM  050640
RK   620  0.0036   0.013            CIRC     7.0
KK050650   BASIN
BA 0.019
LS     0      79       0       0      98       0
UK    29  0.0100    0.40      16
UK   200  0.0100    0.10      84
RK   598  0.0033    0.02            TRAP      23     1.0
RK   566  0.0038    0.02            TRAP      90     1.0
KK050650 COMBINE
HC     2
KK050910   BASIN
BA 0.012
LS     0      79       0       0      98       0
UK   170  0.0100    0.32      26
UK   200  0.0100    0.10      74
RK   837  0.0038    0.02            TRAP      38     1.0
```

```
KK050650    FROM  050910
RK   751  0.0045   0.013            DEEP     5.0
KK050650 COMBINE
HC     2
KK050660    FROM  050650
RK   648  0.0027   0.013            CIRC     7.5
KK050660   BASIN
BA 0.018
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   578  0.0033    0.02            TRAP      49     1.0
RK   582  0.0038    0.02            TRAP      90     1.0
KK050660 COMBINE
HC     2
KK050110    FROM  050660
RK   458  0.0027   0.013            CIRC     7.5
KK050110 COMBINE
HC     2
KK050120    FROM  050110
RK   888  0.0027   0.013            CIRC     7.5
KK050120   BASIN
BA 0.039
LS     0      79       0       0      98       0
UK    24  0.0100    0.40      14
UK   195  0.0100    0.10      86
RK   763  0.0038    0.02            TRAP      23     1.0
RK  1114  0.0033    0.02            TRAP      90     1.0
KK050120 COMBINE
HC     2
KK051010   BASIN
BA 0.023
LS     0      79       0       0      98       0
UK   200  0.0100    0.30      28
UK   200  0.0100    0.10      72
RK   517  0.0033    0.02            TRAP      30     1.0
RK   822  0.0038    0.02            TRAP      30     1.0
KK051010 STORAGE
RS     1    STOR
SV  0.00    2.15    2.15    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   1.0     500     3.0     1.5
KK051020    FROM  051010
RK   948  0.0033   0.017            TRAP    60.0       1
KK051110   BASIN
BA 0.025
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      10
UK   200  0.0100    0.10      90
RK   326  0.0038    0.02            TRAP       9     1.0
RK  1382  0.0033    0.02            TRAP      19     1.0
KK051110 STORAGE
RS     1    STOR
SV  0.00    3.11    3.11    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   1.0     500     3.0     1.5
KK051020    FROM  051110
RK   541  0.0038   0.017            TRAP    33.0       1
```

```
KK051020   BASIN
BA 0.027
LS     0      79       0       0      98       0
UK    64  0.0100    0.37      22
UK   174  0.0100    0.10      78
RK   409  0.0038    0.02            TRAP      26     1.0
RK  1595  0.0033    0.02            TRAP      60     1.0
KK051020 COMBINE
HC     3
KK051030    FROM  051020
RK   694  0.0033   0.017            TRAP    60.0       1
KK051030   BASIN
BA 0.031
LS     0      79       0       0      98       0
UK    28  0.0100    0.39      13
UK   190  0.0100    0.10      87
RK  2532  0.0033    0.02            TRAP      49     1.0
KK051030 COMBINE
HC     2
KK051210   BASIN
BA 0.008
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   682  0.0038    0.02            TRAP       9     1.0
KK051030    FROM  051210
RK   241  0.0038   0.017            TRAP    60.0       1
KK051030 COMBINE
HC     2
KK051310   BASIN
BA 0.003
LS     0      79       0       0      98       0
UK    20  0.0100    0.40       6
UK   200  0.0100    0.10      94
RK   544  0.0033    0.02            TRAP      18     1.0
KK051310 STORAGE
RS     1    STOR
SV  0.00    0.24    0.48    0.71    0.80    0.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    3.00    4.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00
ST   3.0     500     3.0     1.5
KK051320    FROM  051310
RK   333  0.0038   0.017            TRAP    60.0       1
KK051320   BASIN
BA 0.009
LS     0      79       0       0      98       0
UK    20  0.0100    0.40       7
UK   200  0.0100    0.10      93
RK   254  0.0038    0.02            TRAP       9     1.0
RK   543  0.0033    0.02            TRAP      18     1.0
KK051320 STORAGE
RS     1    STOR
SV  0.00    1.06    1.06    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   1.0     500     3.0     1.5
KK051320 COMBINE
HC     2
KK051030    FROM  051320
RK   960  0.0038   0.017            TRAP    60.0       1
```

```
KK051030 COMBINE
HC      2
KK051040     FROM  051030
RK  1501  0.0033   0.017            TRAP    60.0      1
KK051040   BASIN
BA 0.036
LS      0      79       0       0      98       0
UK    105  0.0100    0.34      39
UK    102  0.0100    0.10      61
RK   1159  0.0038    0.02            TRAP      45    1.0
RK   1501  0.0033    0.02            TRAP      65    1.0
KK051040 COMBINE
HC      2
KK050120     FROM  051040
RK   1222  0.0033   0.017            TRAP    90.0      1
KK050120 COMBINE
HC      2
KK050130     FROM  050120
RK   1265  0.0027   0.013            DEEP     7.0
KK050130   BASIN
BA 0.096
LS      0      79       0       0      98       0
UK     45  0.0100    0.38      15
UK    171  0.0100    0.10      85
RK   1905  0.0038    0.02            TRAP      71    1.0
RK   1212  0.0033    0.02            TRAP      71    1.0
KK050130 COMBINE
HC      2
KK050140     FROM  050130
RK   1319  0.0027   0.013            DEEP     7.0
KK051410   BASIN
BA 0.072
LS      0      79       0       0      98       0
UK     64  0.0100    0.37       9
UK    150  0.0100    0.10      91
RK   1170  0.0033    0.02            TRAP      38    1.0
RK   1180  0.0038    0.02            TRAP      55    1.0
KK050140     FROM  051410
RK   1367  0.0038   0.017            TRAP    60.0      1
KK050140   BASIN
BA 0.086
LS      0      79       0       0      98       0
UK     94  0.0100    0.35      25
UK    154  0.0100    0.10      75
RK   1224  0.0038    0.02            TRAP       9    1.0
RK   1267  0.0033    0.02            TRAP      79    1.0
KK050140 COMBINE
HC      3
KK050150     FROM  050140
RK   1252  0.0006   0.013            DEEP     5.0
KK050150   BASIN
BA 0.011
LS      0      79       0       0      98       0
UK    159  0.0100    0.30      57
UK     57  0.0100    0.10      43
RK   1202  0.0033    0.02            TRAP      60    1.0
KK050150 COMBINE
HC      2
KK050160     FROM  050150
RK    332  0.0048   0.013            DEEP     6.0
```

```
*
* 12-440
*
KK120410   BASIN
BA 0.033
LS      0       79        0        0       98        0
UK    148   0.0100     0.30       64
UK     52   0.0100     0.10       36
RK    442   0.0050     0.02             TRAP       38      1.0
RK   1783   0.0027     0.02             TRAP       38      1.0
KK120420    FROM  120410
RK    816   0.0050    0.025             TRAP      3.0      1.0
KK120420   BASIN
BA 0.021
LS      0       79        0        0       98        0
UK    108   0.0100     0.33       46
UK     99   0.0100     0.10       54
RK   1692   0.0050     0.02             TRAP       41      1.0
KK120420 COMBINE
HC      2
KK120430    FROM  120420
RK    996   0.0050    0.017             TRAP     90.0        1
KK120430   BASIN
BA 0.021
LS      0       79        0        0       98        0
UK     27   0.0100     0.40       14
UK    197   0.0100     0.10       86
RK    572   0.0027     0.02             TRAP       30      1.0
RK    993   0.0050     0.02             TRAP       41      1.0
KK120430 COMBINE
HC      2
KK120440    FROM  120430
RK    484   0.0045    0.013             CIRC      3.0
*
* 11-20
*
KK110010   BASIN
BA 0.020
LS      0       79        0        0       98        0
UK     31   0.0100     0.39       17
UK    190   0.0100     0.10       83
RK    340   0.0015     0.02             TRAP       98      1.0
RK   1506   0.0007     0.02             TRAP       41      1.0
KK110020    FROM  110010
RK    511   0.0006    0.013             CIRC      3.0
*
KKCP721 COMBINE sub-basins 5-2020, 5-160, 12-440, 11-20 and R711
HC      5
*
KK R721
KM ROUTE CP721 TO CP731
RS      1              -1
RC 0.035   0.031   0.035    2200  0.0028
RX  8847    9694    9736    9773   10001   10249   10812   10832
RY  1228    1224    1220    1215    1215    1220    1222    1231
*
* 4-420
*
KK040410   BASIN
BA 0.056
```

```
LS      0      79       0       0      98       0
UK    164  0.0100    0.30      51
UK     89  0.0100    0.10      49
RK   1125  0.0072    0.02            TRAP      41     1.0
RK   1544  0.0004    0.02            TRAP      60     1.0
KK040420    FROM  040410
RK    359  0.0065   0.013            CIRC     1.3
*
KKCP731 COMBINE sub-basin 4-420 and R721
HC      2
*
KK R731
KM ROUTE CP731 TO CP741
RS      1              -1
RC 0.035   0.031   0.035     600  0.0028
RX  8847    9694    9736    9773   10001   10249   10812   10832
RY  1228    1224    1220    1215    1215    1220    1222    1231
*
* 4-70
*
KK040010   BASIN
BA 0.038
LS      0      79       0       0      98       0
UK    148  0.0100    0.30      64
UK     53  0.0100    0.10      36
RK   1275  0.0072    0.02            TRAP      38     1.0
RK    877  0.0072    0.02            TRAP      64     1.0
KK040020    FROM  040010
RK   1136  0.0072   0.017            TRAP    37.5       1
KK040020   BASIN
BA 0.041
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      62
UK     50  0.0100    0.10      38
RK   1251  0.0004    0.03            TRAP      38     1.0
KK040020 COMBINE
HC      2
KK040030    FROM  040020
RK   1137  0.0072   0.017            TRAP    37.5       1
KK040030   BASIN
BA 0.061
LS      0      79       0       0      98       0
UK    123  0.0100    0.32      53
UK     81  0.0100    0.10      47
RK   1760  0.0004    0.02            TRAP      41     1.0
KK040030 COMBINE
HC      2
KK040040    FROM  040030
RK   1636  0.0003   0.013            CIRC     1.0
KK040110   BASIN
BA 0.054
LS      0      79       0       0      98       0
UK    146  0.0100    0.30      63
UK     55  0.0100    0.10      37
RK   1275  0.0004    0.02            TRAP      38     1.0
RK   1266  0.0072    0.02            TRAP      38     1.0
KK040120    FROM  040110
RK    351  0.0069   0.013            CIRC     3.0
KK040120   BASIN
BA 0.087
```

```
LS      0      79       0       0      98       0
UK    158  0.0100    0.30      57
UK     74  0.0100    0.10      43
RK   1600  0.0004    0.02            TRAP      38     1.0
RK   2356  0.0072    0.02            TRAP      60     1.0
KK040120 COMBINE
HC      2
KK040130    FROM  040120
RK    730  0.0086   0.013            CIRC     3.0
KK040130   BASIN
BA 0.023
LS      0      79       0       0      98       0
UK    122  0.0100    0.32      52
UK     82  0.0100    0.10      48
RK    642  0.0072    0.02            TRAP      41     1.0
KK040130 COMBINE
HC      2
KK040040    FROM  040130
RK    625  0.0038   0.013            CIRC     3.5
KK040210   BASIN
BA 0.011
LS      0      79       0       0      98       0
UK     97  0.0100    0.34      45
UK    111  0.0100    0.10      55
RK    696  0.0072    0.02            TRAP       6     1.0
KK040210 STORAGE
RS      1    STOR
SV   0.00    1.00    1.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    1.0     500     3.0     1.5
KK040040    FROM  040210
RK    990  0.0004   0.017            TRAP    97.5       1
KK040040   BASIN
BA 0.044
LS      0      79       0       0      98       0
UK     22  0.0100    0.40      16
UK    197  0.0100    0.10      84
RK   2597  0.0004    0.02            TRAP      98     1.0
KK040040 COMBINE
HC      4
KK040050    FROM  040040
RK   1869  0.0060   0.013            CIRC     3.5
KK040310   BASIN
BA 0.062
LS      0      79       0       0      98       0
UK    125  0.0100    0.32      52
UK     87  0.0100    0.10      48
RK   1761  0.0072    0.02            TRAP      38     1.0
KK040050    FROM  040310
RK   1912  0.0004   0.017            TRAP    45.0       1
KK040050   BASIN
BA 0.113
LS      0      79       0       0      98       0
UK    158  0.0100    0.30      49
UK     99  0.0100    0.10      51
RK   1202  0.0004    0.02            TRAP      45     1.0
RK   1869  0.0072    0.02            TRAP      60     1.0
KK040050 COMBINE
HC      3
```

```
KK040060    FROM  040050
RK   633  0.0033   0.013            CIRC     4.0
KK040060   BASIN
BA 0.022
LS     0      79       0       0      98       0
UK   206  0.0100    0.29      22
UK   190  0.0100    0.10      78
RK   633  0.0072    0.02            TRAP      60     1.0
KK040060 COMBINE
HC     2
KK040070    FROM  040060
RK   619  0.0033   0.013            CIRC     4.0
*
* 11-430
*
KK110410   BASIN
BA 0.034
LS     0      79       0       0      98       0
UK   152  0.0100    0.30      48
UK    51  0.0100    0.10      52
RK  2117  0.0007    0.02            TRAP      38     1.0
KK110420    FROM  110410
RK   208  0.0015   0.017            TRAP    60.0       1
KK110420   BASIN
BA 0.043
LS     0      79       0       0      98       0
UK   156  0.0100    0.30      62
UK    56  0.0100    0.10      38
RK   549  0.0015    0.02            TRAP      45     1.0
RK  1632  0.0007    0.02            TRAP      45     1.0
KK110420 COMBINE
HC     2
KK110430    FROM  110420
RK   309  0.0015   0.013            CIRC     1.5
*
KKCP741 COMBINE sub-basins 4-70, 11-430 and R731
HC     3
*
KK R741
KM ROUTE CP741 TO CP751
RS     1              -1
RC 0.035   0.031   0.035    1200  0.0028
RX  9098    9525    9697   10000   10011   10169   10350   10547
RY  1222    1217    1212    1207    1207    1210    1212    1215
*
* 02-820
*
KK020810   BASIN
BA 0.071
LS     0      79       0       0      98       0
UK   165  0.0100    0.29      60
UK    73  0.0100    0.10      40
RK  1294  0.0085    0.02            TRAP      38     1.0
RK  1256  0.0025    0.02            TRAP      60     1.0
KK020820    FROM  020810
RK   354  0.0077   0.013            CIRC     1.5
*
KKCP751 COMBINE sub-basin 2-820 and R741
HC     2
*
```

```
KK R751
KM ROUTE CP751 TO CP761
RS      1              -1
RC 0.035   0.031   0.035    1000  0.0028
RX  9098    9525    9697   10000   10011   10169   10350   10547
RY  1222    1217    1212    1207    1207    1210    1212    1215
*
* 11-330
*
KK110310   BASIN
BA 0.028
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1540  0.0007    0.02            TRAP      24     1.0
KK110310 STORAGE
RS      1    STOR
SV   0.00    1.90    1.90    1.90    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    1.00    1.90    2.90    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00
ST    1.0     500     3.0     1.5
KK110320    FROM  110310
RK    830  0.0015   0.017            TRAP   100.5       1
KK110320   BASIN
BA 0.051
LS      0      79       0       0      98       0
UK    149  0.0100    0.30      58
UK     64  0.0100    0.10      42
RK   2629  0.0015    0.02            TRAP      41     1.0
KK110320 COMBINE
HC      2
KK110330    FROM  110320
RK    223  0.0015   0.013            CIRC     1.5
*
KKCP761 COMBINE sub-basin 11-330 and R751
HC      2
*
KK R761
KM ROUTE CP761 TO CP771
RS      1              -1
RC 0.035   0.030   0.035     800  0.0028
RX  9297    9784    9810   10011   10280   10500   10611   10633
RY  1222    1215    1210    1206    1206    1210    1214    1218
*
* 02-90
*
KK020010   BASIN
BA 0.054
LS      0      79       0       0      98       0
UK    152  0.0100    0.30      63
UK     55  0.0100    0.10      37
RK   1030  0.0085    0.02            TRAP      38     1.0
RK   1038  0.0025    0.02            TRAP      60     1.0
KK020020    FROM  020010
RK   1331  0.0085   0.017            TRAP    45.0       1
KK020020   BASIN
BA 0.066
LS      0      79       0       0      98       0
UK    141  0.0100    0.31      61
UK     61  0.0100    0.10      39
```

```
RK  1433  0.0025    0.02            TRAP     38     1.0
RK  1331  0.0085    0.02            TRAP     45     1.0
KK020020 COMBINE
HC     2
KK020030    FROM  020020
RK  1308  0.0085   0.017            TRAP   45.0      1
KK020030   BASIN
BA 0.070
LS     0      79       0       0     98       0
UK    58  0.0100    0.37      28
UK   156  0.0100    0.10      72
RK  1038  0.0025    0.02            TRAP     38     1.0
RK  1269  0.0085    0.02            TRAP     45     1.0
KK020030 COMBINE
HC     2
KK020040    FROM  020030
RK   650  0.0040   0.013            CIRC    3.0
KK020040   BASIN
BA 0.028
LS     0      79       0       0     98       0
UK    20  0.0100    0.40      14
UK   200  0.0100    0.10      86
RK  1367  0.0085    0.02            TRAP     15     1.0
RK   596  0.0025    0.02            TRAP     79     1.0
KK020040 COMBINE
HC     2
KK020050    FROM  020040
RK   601  0.0040   0.013            CIRC    6.8
KK020210   BASIN
BA 0.055
LS     0      79       0       0     98       0
UK    96  0.0100    0.34      44
UK   113  0.0100    0.10      56
RK  1003  0.0025    0.02            TRAP     49     1.0
RK  1136  0.0085    0.02            TRAP     79     1.0
KK020220    FROM  020210
RK  1317  0.0085   0.017            TRAP   97.5      1
KK020220   BASIN
BA 0.036
LS     0      79       0       0     98       0
UK    59  0.0100    0.37      30
UK   155  0.0100    0.10      70
RK   642  0.0025    0.02            TRAP     38     1.0
RK  1317  0.0085    0.02            TRAP     98     1.0
KK020220 COMBINE
HC     2
KK020050    FROM  020220
RK  1335  0.0085   0.017            TRAP   97.5      1
KK020050   BASIN
BA 0.041
LS     0      79       0       0     98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK   609  0.0025    0.02            TRAP     15     1.0
RK  1335  0.0085    0.02            TRAP     98     1.0
KK020050 COMBINE
HC     3
KK020050
DT020410
DI     0     100     150     200     250     300     350     400     450     500
```

```
DI   550    600    650    700    750    800    850    900    950   1000
DQ     0     60     90    120    150    180    210    240    270    300
DQ   330    360    390    420    450    480    510    540    570    600
KK020060    FROM  020050
RK  1417  0.0080  0.013          CIRC    5.0
KK020060   BASIN
BA 0.005
LS     0     79      0      0     98      0
UK    20  0.0100   0.40     15
UK   200  0.0100   0.10     85
RK  1305  0.0025   0.02          TRAP    49    1.0
KK020060 COMBINE
HC     2
KK020070    FROM  020060
RK  1355  0.0057  0.013          CIRC    6.0
KK020070   BASIN
BA 0.056
LS     0     79      0      0     98      0
UK    20  0.0100   0.40     15
UK   200  0.0100   0.10     85
RK  1435  0.0025   0.02          TRAP    15    1.0
RK  1287  0.0085   0.02          TRAP    15    1.0
KK020070 COMBINE
HC     2
KK020310   BASIN
BA 0.007
LS     0     79      0      0     98      0
UK    34  0.0100   0.39     20
UK   184  0.0100   0.10     80
RK  1115  0.0025   0.02          TRAP    45    1.0
KK020070    FROM  020310
RK   123  0.0023  0.013          CIRC    2.5
KK020070 COMBINE
HC     2
KK020080    FROM  020070
RK  1244  0.0059  0.013          CIRC    6.0
KK020090    FROM  020080
RK  2283  0.0035  0.013          CIRC    6.5
*
* 02-450  need going with 02-90
*
KK020050
DR020410
KK020410    FROM  020050
RK   672  0.0065  0.013          DEEP    6.0
KK020410   BASIN
BA 0.018
LS     0     79      0      0     98      0
UK    28  0.0100   0.39     18
UK   191  0.0100   0.10     82
RK  1662  0.0085   0.02          TRAP    15    1.0
KK020410 COMBINE
HC     2
KK020420    FROM  020410
RK   663  0.0065  0.013          DEEP    6.0
KK020420   BASIN
BA 0.044
LS     0     79      0      0     98      0
UK   117  0.0100   0.33     52
UK    88  0.0100   0.10     48
```

```
RK   919  0.0085    0.02            TRAP      38     1.0
RK  1388  0.0025    0.02            TRAP      30     1.0
KK020420 COMBINE
HC     2
KK020510   BASIN
BA 0.024
LS     0      79       0       0      98       0
UK   133  0.0100    0.31      57
UK    70  0.0100    0.10      43
RK   925  0.0085    0.02            TRAP      23     1.0
RK   860  0.0025    0.02            TRAP      23     1.0
KK020420    FROM  020510
RK  1388  0.0025   0.017            TRAP    30.0       1
KK020420 COMBINE
HC     2
KK020430    FROM  020420
RK  1315  0.0065   0.013            DEEP     6.0
KK020430   BASIN
BA 0.051
LS     0      79       0       0      98       0
UK   108  0.0100    0.33      49
UK    99  0.0100    0.10      51
RK  2489  0.0085    0.02            TRAP      38     1.0
KK020430 COMBINE
HC     2
KK020440    FROM  020430
RK   353  0.0107   0.013            DEEP     6.0
KK020440   BASIN
BA 0.006
LS     0      79       0       0      98       0
UK    92  0.0100    0.35      33
UK   128  0.0100    0.10      67
RK   706  0.0085    0.02            TRAP      19     1.0
KK020440 COMBINE
HC     2
KK020450    FROM  020440
RK   200  0.0107   0.013            DEEP     6.0
*
* 11-200
*
KK110110   BASIN
BA 0.040
LS     0      79       0       0      98       0
UK   147  0.0100    0.30      62
UK    54  0.0100    0.10      38
RK  2033  0.0015    0.02            TRAP      38     1.0
KK110120    FROM  110110
RK   222  0.0007   0.017            TRAP    45.0       1
KK110120   BASIN
BA 0.032
LS     0      79       0       0      98       0
UK    24  0.0100    0.40       7
UK   196  0.0100    0.10      93
RK   574  0.0007    0.02            TRAP      23     1.0
RK   932  0.0015    0.02            TRAP      98     1.0
KK110120 COMBINE
HC     2
KK110130    FROM  110120
RK  1336  0.0041   0.013            CIRC     3.5
KK110130   BASIN
```

```
BA 0.051
LS      0      79       0       0      98       0
UK    121  0.0100    0.32      48
UK     86  0.0100    0.10      52
RK    898  0.0007    0.02            TRAP      60     1.0
RK   1336  0.0015    0.02            TRAP      98     1.0
KK110130 COMBINE
HC      2
KK110140    FROM  110130
RK   1134  0.0030   0.013            CIRC     5.5
KK110140   BASIN
BA 0.036
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1729  0.0007    0.02            TRAP      38     1.0
RK   1134  0.0015    0.02            TRAP      98     1.0
KK110140 COMBINE
HC      2
KK110150    FROM  110140
RK   1390  0.0018   0.013            CIRC     6.0
KK110160    FROM  110150
RK    278  0.0046   0.013            CIRC     6.0
KK110160   BASIN
BA 0.015
LS      0      79       0       0      98       0
UK     97  0.0100    0.34      45
UK    111  0.0100    0.10      55
RK   1666  0.0015    0.02            TRAP      98     1.0
KK110160 COMBINE
HC      2
KK110170    FROM  110160
RK    666  0.0020   0.013            CIRC     6.0
KK110180    FROM  110170
RK    726  0.0162   0.013            CIRC     6.0
KK110190    FROM  110180
RK    274  0.0023   0.013            CIRC     6.0
KK110190   BASIN
BA 0.047
LS      0      79       0       0      98       0
UK     50  0.0100    0.38      19
UK    189  0.0100    0.10      81
RK   1666  0.0007    0.02            TRAP      98     1.0
KK110190 COMBINE
HC      2
KK110200    FROM  110190
RK    162  0.0022   0.013            CIRC     6.0
*
KKCP771 COMBINE sub-basins 2-90, 2-450, 11-200 and R761
HC      4
*
KK R771
KM ROUTE CP771 TO CP781
RS      1              -1
RC 0.035   0.030   0.035    2000  0.0028
RX  8818    9706    9746   10001   10013   10148   10188   10264
RY  1217    1210    1202    1194    1194    1200    1205    1210
*
* 02-740
*
```

```
KK020710   BASIN
BA 0.060
LS      0      79       0       0      98       0
UK     43  0.0100    0.38      22
UK    173  0.0100    0.10      78
RK   1223  0.0085    0.02            TRAP      30     1.0
RK   1178  0.0025    0.02            TRAP      60     1.0
KK020720    FROM  020710
RK    731  0.0025   0.017            TRAP    48.8       1
KK020720   BASIN
BA 0.039
LS      0      79       0       0      98       0
UK    149  0.0100    0.30      62
UK     51  0.0100    0.10      38
RK    497  0.0025    0.02            TRAP      38     1.0
RK    962  0.0085    0.02            TRAP      60     1.0
KK020720 COMBINE
HC      2
KK020730    FROM  020720
RK    540  0.0085   0.017            TRAP    25.0     1.0
KK020730   BASIN
BA 0.013
LS      0      79       0       0      98       0
UK     64  0.0100    0.37      33
UK    150  0.0100    0.10      67
RK    465  0.0025    0.02            TRAP      18     1.0
RK    476  0.0085    0.02            TRAP      18     1.0
KK020730 COMBINE
HC      2
KK020740    FROM  020730
RK    441  0.0025   0.027            TRAP    50.0     1.0
*
KKCP781 COMBINE sub-basin 2-740 and R771
HC      2
*
KK R781
KM ROUTE CP781 TO CP791
RS      1              -1
RC 0.035   0.030   0.035     900  0.0028
RX  8818    9706    9746   10001   10013   10148   10188   10264
RY  1217    1210    1202    1194    1194    1200    1205    1210
*
* 02-650
*
KK020610   BASIN
BA 0.015
LS      0      79       0       0      98       0
UK     56  0.0100    0.37      23
UK    158  0.0100    0.10      77
RK   1555  0.0085    0.02            TRAP      38     1.0
KK020620    FROM  020610
RK   1119  0.0025   0.017            TRAP    45.0       1
KK020620   BASIN
BA 0.061
LS      0      79       0       0      98       0
UK    127  0.0100    0.32      56
UK     76  0.0100    0.10      44
RK   1015  0.0025    0.02            TRAP      45     1.0
RK   1660  0.0085    0.02            TRAP      45     1.0
KK020620 COMBINE
```

```
HC      2
KK020630     FROM  020620
RK    931  0.0085   0.017            TRAP    45.0       1
KK020630    BASIN
BA 0.020
LS      0       79       0       0      98       0
UK    142  0.0100    0.31      62
UK     59  0.0100    0.10      38
RK   1329  0.0085    0.02            TRAP      49     1.0
KK020630 COMBINE
HC      2
KK020640     FROM  020630
RK    896  0.0085   0.017            TRAP    60.0       1
KK020640    BASIN
BA 0.008
LS      0       79       0       0      98       0
UK    147  0.0100    0.31      53
UK    110  0.0100    0.10      47
RK    799  0.0085    0.02            TRAP      60     1.0
KK020640 COMBINE
HC      2
KK020650     FROM  020640
RK    268  0.0025   0.027            TRAP    50.0     1.0
*
* 08-350
*
KK080310    BASIN
BA 0.047
LS      0       79       0       0      98       0
UK    126  0.0100    0.32      56
UK     78  0.0100    0.10      44
RK    714  0.0043    0.02            TRAP      38     1.0
RK   1313  0.0061    0.02            TRAP      38     1.0
KK080320     FROM  080310
RK    789  0.0061   0.017            TRAP    37.5       1
KK080320    BASIN
BA 0.028
LS      0       79       0       0      98       0
UK    151  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1474  0.0061    0.01            TRAP      38     1.0
KK080320 COMBINE
HC      2
KK080330     FROM  080320
RK    182  0.0061   0.017            TRAP    37.5       1
KK080410    BASIN
BA 0.012
LS      0       79       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    734  0.0061    0.02            TRAP      12     1.0
KK080410 STORAGE
RS      1     STOR
SV   0.00     0.80    0.80    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00     1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00     0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    1.0      500     3.0     1.5
KK080330     FROM  080410
RK    665  0.0043   0.017            TRAP    49.5       1
KK080510    BASIN
```

```
BA 0.033
LS      0      79       0       0      98       0
UK    145  0.0100    0.30      63
UK     56  0.0100    0.10      37
RK    655  0.0043    0.02            TRAP      38     1.0
RK   1110  0.0061    0.02            TRAP      38     1.0
KK080330    FROM  080510
RK    160  0.0061   0.017            TRAP    37.5       1
KK080330   BASIN
BA 0.015
LS      0      79       0       0      98       0
UK    122  0.0100    0.32      52
UK     82  0.0100    0.10      48
RK    491  0.0061    0.02            TRAP      38     1.0
RK    996  0.0043    0.02            TRAP      60     1.0
KK080330 COMBINE
HC      4
KK080340    FROM  080330
RK    473  0.0043   0.017            TRAP    60.0       1
KK080340   BASIN
BA 0.004
LS      0      79       0       0      98       0
UK    202  0.0100    0.27      77
UK     67  0.0100    0.10      23
RK    473  0.0043    0.02            TRAP      60     1.0
KK080340 COMBINE
HC      2
KK080350    FROM  080340
RK    239  0.0043   0.017            TRAP    60.0       1
*
KKCP791 COMBINE sub-basins 2-650, 8-350 and R781
HC      3
*
KK R791
KM ROUTE CP791 TO CP801
RS      1              -1
RC 0.035   0.030   0.035    1500  0.0028
RX  9694    9818    9835    9998   10016   10378   10538   10711
RY  1203    1199    1195    1191    1191    1196    1200    1205
*
* 08-620
*
KK080610   BASIN
BA 0.014
LS      0      79       0       0      98       0
UK     30  0.0100    0.39      19
UK    192  0.0100    0.10      81
RK    898  0.0043    0.02            TRAP      38     1.0
KK080620    FROM  080610
RK    238  0.0039   0.013            CIRC     3.0
*
KKCP801 COMBINE sub-basin 8-620 and R791
HC      2
*
KK R801
KM ROUTE CP801 TO CP811
RS      1              -1
RC 0.035   0.030   0.035    1500  0.0028
RX  9694    9818    9835    9998   10016   10378   10538   10711
RY  1203    1199    1195    1191    1191    1196    1200    1205
```

```
*
* 01-520
*
KK010510   BASIN
BA 0.016
LS      0      79       0       0      98       0
UK    151  0.0100    0.30      46
UK     51  0.0100    0.10      54
RK   1185  0.0078    0.02            TRAP      23     1.0
KK010520    FROM  010510
RK    444  0.0078   0.013            CIRC     2.0
*
* 01-90
*
KK010010   BASIN
BA 0.044
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1453  0.0078    0.02            TRAP      38     1.0
RK    938  0.0078    0.02            TRAP      45     1.0
KK010020    FROM  010010
RK    357  0.0078   0.017            TRAP    45.0       1
KK010020   BASIN
BA 0.020
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK   1391  0.0078    0.02            TRAP      38     1.0
KK010020 COMBINE
HC      2
KK010040    FROM  010020
RK    243  0.0078   0.017            TRAP    45.0       1
KK010160   BASIN
BA 0.004
LS      0      79       0       0      98       0
UK    150  0.0100    0.30      65
UK     50  0.0100    0.10      35
RK    576  0.0078    0.04            TRAP      20     1.0
KK010160 STORAGE
RS      1    STOR
SV   0.00    0.30    0.30    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE   0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ   0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST    1.0     500     3.0     1.5
KK010040    FROM  010160
RK    147  0.0078   0.017            TRAP     7.5       1
KK010040 COMBINE
HC      2
KK010050    FROM  010040
RK    417  0.0078   0.017            TRAP    45.0       1
KK010050   BASIN
BA 0.053
LS      0      79       0       0      98       0
UK    104  0.0100    0.34      47
UK    103  0.0100    0.10      53
RK   1791  0.0078    0.02            TRAP      38     1.0
RK   1509  0.0078    0.02            TRAP      38     1.0
KK010050 COMBINE
HC      2
```

```
KK010060    FROM  010050
RK   538  0.0078   0.017            TRAP    45.0       1
KK010060   BASIN
BA 0.033
LS     0      79       0       0      98       0
UK   109  0.0100    0.33      34
UK    98  0.0100    0.10      66
RK  1938  0.0078    0.02            TRAP      90     1.0
KK010060 COMBINE
HC     2
KK010070    FROM  010060
RK  1305  0.0078   0.017            TRAP    90.0       1
KK010070   BASIN
BA 0.017
LS     0      79       0       0      98       0
UK   146  0.0100    0.30      63
UK    55  0.0100    0.10      37
RK  1305  0.0078    0.02            TRAP      80     1.0
KK010210   BASIN
BA 0.054
LS     0      79       0       0      98       0
UK   154  0.0100    0.30      61
UK    62  0.0100    0.10      39
RK   967  0.0078    0.02            TRAP      38     1.0
RK  1481  0.0078    0.02            TRAP      60     1.0
KK010220    FROM  010210
RK   821  0.0078   0.017            TRAP    52.5       1
KK010220   BASIN
BA 0.041
LS     0      79       0       0      98       0
UK   149  0.0100    0.30      61
UK    52  0.0100    0.10      39
RK  1302  0.0078    0.02            TRAP      38     1.0
RK   821  0.0078    0.02            TRAP      60     1.0
KK010220 COMBINE
HC     2
KK010070    FROM  010220
RK   219  0.0078   0.017            TRAP    60.0       1
KK010070 COMBINE
HC     3
KK010080    FROM  010070
RK   671  0.0078   0.013            CIRC     4.0
KK010080   BASIN
BA 0.010
LS     0      79       0       0      98       0
UK   135  0.0100    0.32      46
UK   112  0.0100    0.10      54
RK   825  0.0078    0.02            TRAP      75     1.0
KK010310   BASIN
BA 0.009
LS     0      79       0       0      98       0
UK    23  0.0100    0.40      11
UK   197  0.0100    0.10      89
RK   932  0.0078    0.04            TRAP      20     1.0
KK010310 STORAGE
RS     1    STOR
SV  0.00    1.10    1.10    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   1.0     500     3.0     1.5
```

```
KK010080    FROM  010310
RK   211  0.0078   0.017            TRAP    15.0       1
KK010410   BASIN
BA 0.012
LS     0      79       0       0      98       0
UK   150  0.0100    0.30      46
UK    51  0.0100    0.10      54
RK   350  0.0078    0.02            TRAP      23     1.0
RK   943  0.0078    0.02            TRAP      23     1.0
KK010080    FROM  010410
RK   111  0.0078   0.013            CIRC     1.5
KK010080 COMBINE
HC     4
KK010090    FROM  010080
RK   937  0.0078   0.013            CIRC     4.0
*
* 08-720
*
KK080710   BASIN
BA 0.019
LS     0      79       0       0      98       0
UK    38  0.0100    0.39      20
UK   193  0.0100    0.10      80
RK   571  0.0043    0.02            TRAP       9     1.0
RK   840  0.0061    0.02            TRAP      18     1.0
KK080710 STORAGE
RS     1    STOR
SV  0.00    1.79    1.79    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SE  0.00    1.00    2.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.00    0.00    0.00    0.00    0.00    0.00    0.00
ST   1.0     500     3.0     1.5
KK080720    FROM  080710
RK   452  0.0039   0.013            CIRC     1.5
*
* 08-70
*
KK080010   BASIN
BA 0.015
LS     0      79       0       0      98       0
UK    73  0.0100    0.36      35
UK   139  0.0100    0.10      65
RK   599  0.0043    0.02            TRAP      38     1.0
RK   569  0.0061    0.02            TRAP      79     1.0
KK080020    FROM  080010
RK  2098  0.0055   0.013            CIRC     3.0
KK080110   BASIN
BA 0.060
LS     0      79       0       0      98       0
UK    20  0.0100    0.40      15
UK   200  0.0100    0.10      85
RK  2155  0.0061    0.02            TRAP      30     1.0
RK  1486  0.0043    0.02            TRAP      49     1.0
KK080110 STORAGE
RS     1    STOR
SV  0.00    2.00    4.00    6.00    8.20    8.20    0.00    0.00    0.00    0.00
SE  0.00    2.00    4.00    6.00    8.00    9.00    0.00    0.00    0.00    0.00
SQ  0.00    0.01    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00
ST   8.0     500     3.0     1.5
KK080020    FROM  080110
RK   224  0.0061   0.017            TRAP    60.0       1
```

```
KK080020   BASIN
BA 0.038
LS     0      79       0       0      98       0
UK   107  0.0100    0.33      48
UK    99  0.0100    0.10      52
RK   717  0.0043    0.02            TRAP      38     1.0
RK  2098  0.0061    0.02            TRAP      60     1.0
KK080020 COMBINE
HC     3
KK080030    FROM  080020
RK  1389  0.0055   0.013            CIRC     3.0
KK080030   BASIN
BA 0.028
LS     0      79       0       0      98       0
UK    98  0.0100    0.34      30
UK   114  0.0100    0.10      70
RK  1361  0.0043    0.02            TRAP      21     1.0
RK  1389  0.0061    0.02            TRAP      98     1.0
KK080030 COMBINE
HC     2
KK080040    FROM  080030
RK  1202  0.0055   0.013            CIRC     3.0
KK080210   BASIN
BA 0.108
LS     0      79       0       0      98       0
UK   178  0.0100    0.30      29
UK   133  0.0100    0.10      71
RK  1191  0.0061    0.02            TRAP      11     1.0
RK  1576  0.0043    0.02            TRAP      60     1.0
KK080040    FROM  080210
RK   420  0.0039   0.013            CIRC     3.0
KK080040   BASIN
BA 0.018
LS     0      79       0       0      98       0
UK   166  0.0100    0.32      15
UK   200  0.0100    0.10      85
RK  1236  0.0043    0.02            TRAP      60     1.0
RK  1202  0.0061    0.02            TRAP      79     1.0
KK080040 COMBINE
HC     3
KK080050    FROM  080040
RK   348  0.0039   0.013            CIRC     3.0
KK080050   BASIN
BA 0.007
LS     0      79       0       0      98       0
UK    66  0.0100    0.37      16
UK   199  0.0100    0.10      84
RK   225  0.0061    0.02            TRAP      19     1.0
RK   277  0.0043    0.02            TRAP      90     1.0
KK080050 COMBINE
HC     2
KK080060    FROM  080050
RK   628  0.0039   0.013            CIRC     3.0
KK080060   BASIN
BA 0.004
LS     0      79       0       0      98       0
UK   160  0.0100    0.30      57
UK   150  0.0100    0.10      43
RK   628  0.0043    0.02            TRAP      98     1.0
KK080060 COMBINE
```

```
HC      2
KK080070     FROM  080060
RK    263  0.0055   0.013            CIRC     3.0
*
KKCP811 COMBINE sub-basins 1-520, 1-90, 8-720, 8-70 and R791
HC      5
*
KK R811
KM ROUTE CP811 TO CP821
RS      1              -1
RC 0.035   0.030   0.035    4800  0.005
RX  9694    9818    9835    9998   10016   10378   10538   10711
RY  1203    1199    1195    1191    1191    1196    1200    1205
*
* 01-620
*
KK010610   BASIN
BA 0.026
LS      0      79       0       0      98       0
UK     21  0.0100    0.40       7
UK    199  0.0100    0.10      93
RK   1682  0.0078    0.02            TRAP      23     1.0
KK010620     FROM  010610
RK    123  0.0078   0.017            TRAP    15.0       1
*
KK R611
KM ROUTE KK010610 TO CP821
RS      1              -1
RC 0.030   0.030   0.030    4500   0.005
RX      0      10      20      25      45      50      60      70
RY      5       5       5       0       0       5       5       5
*
*
KK 420S
KM RUNOFF FROM SUBBASIN 420
BA 0.459
LS    0.0    77.0
UC 0.298   0.152
UA      0       5      16      30      65      77      84      90      94      97
UA    100
*
*
KK 440S
KM RUNOFF FROM SUBBASIN 380
BA 0.426
LS    0.0    77.0
UC 0.305   0.145
UA      0       5      16      30      65      77      84      90      94      97
UA    100
*
KKCP821 COMBINE sub-basins 420, 440 R611 and R811
HC      4
*
ZZ
```