

```

00001> 2      Metric units
00002> *#*****
00003> *# SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00004> *#*****
00005> *# Project Name: [Richmond PPM] Project Number: [709]
00006> *# Date : 04-21-2009
00007> *# Revised : 05-27-2009; 07-22-2009; 08-06-2009; 08-31-2009; 11-16-2009
00008> *# 02-16-2010; 03-04-2010 (LP)
00009> *# Modeller : [Bryan Willcott B.Eng.]
00010> *# Company : J.F. Sabourin and Associates
00011> *# License # : 3410370
00012> *#*****
00013>
00014> *#*****
00015> *# [BW] May 27, 2009
00016> *# This model has been updated using revised values for Tp. Previous versions
00017> *# of this model used a calculated Tp=0.6Tc. This model used a calculated
00018> *# Tp=0.67Tc.
00019> *#*****
00020> *# [BW] July 22, 2009
00021> *# This model has been revised to include "existing" cross section information
00022> *# received from Robinson Consultants. The Cross section revised in the model
00023> *# is Sec 5.2 (channel receiving flow from "arbuckl"). Also, channel and
00024> *# floodplain slopes for ROUTE CHANNEL commands were updated to be equal
00025> *#*****
00026> *# [BW] August 6, 2009
00027> *# This model has been revised to include cross section information
00028> *# from Robinson Consultants Engineer's Report July 2003. The cross
00029> *# section revised in the model is Sec 5.1. Cross sections Sec 1.03
00030> *# and Sec 5.3 have also been revised
00031> *#*****
00032> *# [BW] August 31, 2009
00033> *# Model updated to include the proposed DSEL berm. This affects the geometry
00034> *# of Route Channel Sect 5.2 located on the Arbuckle drain. Route Channels 5.2
00035> *# and 1.03 have also been revised to reduce the number of values in the
00036> *# x-y matrix.
00037> *#*****
00038> *# [BW] November 16, 2009
00039> *# Model updated to include revised CN and Tp values subsequent to review of
00040> *# memo received from AECOM on Oct. 2, 2009
00041> *#*****
00042> *# [BW] February 16, 2010
00043> *# Model updated to check cross sections proposed to convey flow from VG-6,
00044> *# and VG-7
00045> *#*****
00046> *# [LP] March 4, 2010
00047> *# Model updated to reflect post-development conditions for Mattamy Lands
00048> *# Addition of JR-1, JR-2 and JR-3
00049> *# Removal of Post-Development Mattamy Lands from Pre-Development Areas:
00050> *# VG-3: 40.6 ha to 9.88 ha
00051> *# VG-8: 91.8 ha to 10.30 ha
00052> *# JR-2: 20.5 ha to 4.96 ha
00053> *# JR-3: 10.6 ha to 6.86 ha
00054> *# Addition of Pond 1 and Pond 2 outflow hydrographs
00055> *# (100-year SCS event, free outfall conditions)
00056> *#*****
00057> *# [BW] March 5, 2010
00058> *# Model converted to continuous model for water balance analysis
00059> *#*****
00060> *#
00061> *# 100 year 24 Hour SCS Type II Storm
00062> *# START TZERO=[1967.0501], METOUT=[2], NSTORM=[0], NRUN=[67]
00063> *# ["SC24100x.stm"]
00064> *#-----|-----
00065> *# READ AES DATA AES_FILENAME=["6106000.123"], IELEM=[123],
00066> *# START_DATE=[0], END_DATE=[-183]
00067> *#-----|-----
00068> *# COMPUTE API APII=[50], APIK=[0.90]/day
00069> *#-----|-----
00070> *#*****
00071> *# Van Gaal / Arbuckle Drain

```

```

00072> *#*****
00073> *# DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
00074> *#*****
00075> *#-----|-----
00076> CONTINUOUS NASHYD ID=[1], NHYD=["VG-1A"], DT=[15]min, AREA=[311.9](ha),
00077> DWF=[0](cms), CN/C=[73], IA=[3.9](mm),
00078> N=[3], TP=[5.3]hrs,
00079> Continuous simulation parameters:
00080> IaRCper=[6](hrs),
00081> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00082> InterEventTime=[12](hrs)
00083> Baseflow simulation parameters:
00084> BaseFlowOption=[1],
00085> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00086> VHydCond=[1](mm/hr), END=-1
00087> *#-----|-----
00088> SAVE HYD ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00089> HYD_COMMENT=["VG-1A"]
00090> *#-----|-----
00091> *#*****
00092> *# Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
00093> *# LENGTH THAT INCLUDES DISTANCE TO THE VG1-1 CONFLUENCE IN ADDITION TO THE
00094> *# LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
00095> *#*****
00096> CONTINUOUS NASHYD ID=[2], NHYD=["VG-1B"], DT=[15]min, AREA=[24.8](ha),
00097> DWF=[0](cms), CN/C=[73], IA=[4.0](mm),
00098> N=[3], TP=[2.7]hrs,
00099> Continuous simulation parameters:
00100> IaRCper=[6](hrs),
00101> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00102> InterEventTime=[12](hrs)
00103> Baseflow simulation parameters:
00104> BaseFlowOption=[1],
00105> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00106> VHydCond=[1](mm/hr), END=-1
00107> *#-----|-----
00108> *#*****
00109> *# VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
00110> *# OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
00111> *#*****
00112> *#
00113> ADD HYD IDsum=[3], NHYD=["VG1-1"], IDs to add=[1 2]
00114> *#-----|-----
00115> SAVE HYD ID=[3], # OF PCYCLES=[-1], ICASEsh=[1]
00116> HYD_COMMENT=["VG1-1"]
00117> *#-----|-----
00118> CONTINUOUS NASHYD ID=[4], NHYD=["VG-1D"], DT=[15]min, AREA=[47.8](ha),
00119> DWF=[0](cms), CN/C=[88], IA=[2.5](mm),
00120> N=[3], TP=[1.8]hrs,
00121> Continuous simulation parameters:
00122> IaRCper=[6](hrs),
00123> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00124> InterEventTime=[12](hrs)
00125> Baseflow simulation parameters:
00126> BaseFlowOption=[1],
00127> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00128> VHydCond=[1](mm/hr), END=-1
00129> *#-----|-----
00130> *#*****
00131> *# VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
00132> *# CONSERVATIVELY INCLUDES THE AREA VG-1D, WHICH IS LOCATED JUST DOWNSTREAM
00133> *# OF THE CULVERT
00134> *#*****
00135> *#
00136> ADD HYD IDsum=[5], NHYD=["VG1-2"], IDs to add=[3 4]
00137> *#-----|-----
00138> SAVE HYD ID=[5], # OF PCYCLES=[-1], ICASEsh=[1]
00139> HYD_COMMENT=["VG1-2"]
00140> *#-----|-----
00141> ROUTE CHANNEL IDout=[6], NHYD=["VG1R-2"], IDin=[5],
00142> RDT=[15](min),

```

```

00143>          CHLGTH=[865](m),  CHSLOPE=[0.15](%),
00144>                                FPSLOPE=[0.15](%),
00145>          SECNUM=[1.01],      NSEG=[3]
00146>          ( SEGROUGH, SEGDIST (m))=[0.08,51.41 -0.035,55.58 0.08,228.3
00147>          ( DISTANCE (m), ELEVATION (m))=[0,      96.719]
00148>                                [22.98,      96.598]
00149>                                [42.45,      96.66]
00150>                                [47.63,      96.5]
00151>                                [49.64,      96.424]
00152>                                [51.41,      96]
00153>                                [53.36,      95.79]
00154>                                [55.58,      95.887]
00155>                                [57.42,      96.242]
00156>                                [87.69,      96.5]
00157>                                [119.62,     96.509]
00158>                                [140.1,      96.601]
00159>                                [179.39,     96.722]
00160>                                [200.6,      96.89]
00161>                                [228.39,     97]
00162> *%-----|-----|
00163> CONTINUOUS NASHYD  ID=[7], NHYD=["VG-1C"], DT=[15]min, AREA=[211.8](ha),
00164> DWF=[0](cms), CN/C=[70], IA=[3.9](mm),
00165> N=[3], TP=[4.7]hrs,
00166> Continuous simulation parameters:
00167> IaRECper=[6](hrs),
00168> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00169> InterEventTime=[12](hrs)
00170> Baseflow simulation parameters:
00171> BaseFlowOption=[1],
00172> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00173> VHydCond=[1](mm/hr), END=-1
00174> *%-----|-----|
00175> CONTINUOUS NASHYD  ID=[8], NHYD=["VG-1E"], DT=[15]min, AREA=[13.4](ha),
00176> DWF=[0](cms), CN/C=[73], IA=[4.0](mm),
00177> N=[3], TP=[0.64]hrs,
00178> Continuous simulation parameters:
00179> IaRECper=[6](hrs),
00180> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00181> InterEventTime=[12](hrs)
00182> Baseflow simulation parameters:
00183> BaseFlowOption=[1],
00184> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00185> VHydCond=[1](mm/hr), END=-1
00186> *%-----|-----|
00187> *#*****|
00188> *# VG1-3 IS THE SUM OF FLOWS TO JOY'S ROAD CROSS CULVERT AND CONSERVATIVELY
00189> *# INCLUDES THE AREA VG-1E, WHICH IS LOCATED JUST DOWNSTREAM OF THE CULVERT
00190> *#*****|
00191> *#
00192> ADD HYD          IDsum=[9], NHYD=["VG1-3"], IDs to add=[7 8]
00193> *%-----|-----|
00194> SAVE HYD         ID=[9], # OF PCYCLES=[-1], ICASEsh=[1]
00195> HYD_COMMENT=["VG1-3"]
00196> *%-----|-----|
00197> ROUTE CHANNEL   IDout=[10], NHYD=["VG1R-3"], IDin=[9],
00198> RDT=[15](min),
00199> CHLGTH=[630](m), CHSLOPE=[0.20](%),
00200>                                FPSLOPE=[0.20](%),
00201>                                NSEG=[3]
00202> SECNUM=[1.02],
00203> ( SEGROUGH, SEGDIST (m))=[0.08,80.53 -0.035,82.4 0.08,124.53
00204> ( DISTANCE (m), ELEVATION (m))=[0      97
00205>                                0.61      97.01
00206>                                3.8 97.03
00207>                                17.49     97.18
00208>                                19.18     97.17
00209>                                26.62     97.15
00210>                                46.29     97.12
00211>                                73.97     97.17
00212>                                76.3      97.04
00213>                                77.53     97
00213>                                80.53     96.86

```

```

00214>                                81.38  96.5
00215>                                82.4   96.07
00216>                                87.91  96.07
00217>                                89.65  96.5
00218>                                90.75  96.78
00219>                                91.88  96.91
00220>                                96.2   97
00221>                                99.01  97.1
00222>                                119.73 97.14
00223>                                124.53 97]
00224> *%-----|-----|
00225> *#*****|
00226> *# VG1-4 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE WATERCOURSE FROM JOY'S
00227> *# ROAD WITH THE MAIN DRAIN
00228> *#*****|
00229> *#
00230> ADD HYD          IDsum=[1], NHYD=["VG1-4"], IDs to add=[6 10]
00231> *%-----|-----|
00232> SAVE HYD         ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00233> HYD_COMMENT=["VG1-4"]
00234> *%-----|-----|
00235> ROUTE CHANNEL   IDout=[2], NHYD=["VG1R-4"], IDin=[1],
00236> RDT=[15](min),
00237> CHLGTH=[485](m), CHSLOPE=[0.20](%),
00238>                                FPSLOPE=[0.20](%),
00239> SECNUM=[1.03], NSEG=[3]
00240> ( SEGROUGH, SEGDIST (m))=[0.08,44.17 -0.035,53.58 0.08,243.3
00241> ( DISTANCE (m), ELEVATION (m))=
00242> [-44.2, 95.7
00243> 0, 95.5
00244> 19.69, 95.421
00245> 27.91, 95.5
00246> 31.73, 95.5
00247> 32.29, 95.325
00248> 32.71, 95.5
00249> 41.04, 95.5
00250> 44.17, 95.449
00251> 45.63, 95.389
00252> 48.22, 95
00253> 48.54, 94.882
00254> 49.35, 94.5
00255> 49.64, 94.311
00256> 50.46, 94.497
00257> 52.21, 94.993
00258> 53.58, 95.406
00259> 55.08, 95.333
00260> 55.94, 95.157
00261> 76.35, 95.275
00262> 131, 95.403
00263> 213.2, 95.5
00264> 243.3, 95.8]
00265> *%-----|-----|
00266> CONTINUOUS NASHYD ID=[3], NHYD=["VG-1F"], DT=[15]min, AREA=[117.7](ha),
00267> DWF=[0](cms), CN/C=[86], IA=[2.6](mm),
00268> N=[3], TP=[2.9]hrs,
00269> Continuous simulation parameters:
00270> IaRECper=[6](hrs),
00271> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00272> InterEventTime=[12](hrs)
00273> Baseflow simulation parameters:
00274> BaseFlowOption=[1],
00275> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00276> VHydCond=[1](mm/hr), END=-1
00277> *%-----|-----|
00278> *#*****|
00279> *# VG1 IS THE SUM OF FLOWS AT THE CONFLUENCE OF THE VAN GAAL WEST MAIN DRAIN
00280> *# WITH VAN GAAL WEST TRIBUTARY
00281> *#*****|
00282> *#
00283> ADD HYD          IDsum=[4], NHYD=["VG1"], IDs to add=[2 3]
00284> *%-----|-----|

```

```

00285> SAVE HYD          ID=[4], # OF PCYCLES=[-1], ICASEsh=[1]
00286> HYD_COMMENT=[ "VG1" ]
00287> *-----|
00288> ROUTE CHANNEL      IDout=[5], NHYD=["VGR2-1"], IDin=[4],
00289>                      RDT=[15](min),
00290>                      CHLGTH=[755](m),  CHSLOPE=[0.2](%),
00291>                      FPSLOPE=[0.2](%),
00292>                      NSEG=[3]
00293> SECNUM=[5.1],
00294> ( SEGROUGH, SEGDIST (m))=[0.08,98.046 -0.035,105.496 0.08,51
00295> ( DISTANCE (m), ELEVATION (m))=[0, 96.11
00296>                      20, 94.4
00297>                      26.106, 94.5
00298>                      41.686, 94.465
00299>                      63.506, 94.427
00300>                      84.666, 94.492
00301>                      95.476, 94.363
00302>                      97.736, 94
00303>                      98.046, 93.967
00304>                      100.336, 92.8193
00305>                      101.536, 92.8193
00306>                      102.736, 92.8193
00307>                      105.496, 94.199
00308>                      127.006, 94.345
00309>                      142.116, 94.5
00310>                      148.376, 94.568
00311>                      478.406, 94.7
00312>                      518.306, 95]
00312> *-----|
00313> CONTINUOUS NASHYD  ID=[6], NHYD=["VG-2"], DT=[15]min, AREA=[63.1](ha),
00314> DWF=[0](cms), CN/C=[81], IA=[2.8](mm),
00315> N=[3], TP=[1.6]hrs,
00316> Continuous simulation parameters:
00317> IaRECper=[6](hrs),
00318> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00319> InterEventTime=[12](hrs)
00320> Baseflow simulation parameters:
00321> BaseFlowOption=[1],
00322> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00323> VHydCond=[1](mm/hr), END=-1
00324> *-----|
00325> ROUTE CHANNEL      IDout=[7], NHYD=["PerN"], IDin=[6],
00326>                      RDT=[15](min),
00327>                      CHLGTH=[550](m),  CHSLOPE=[0.2](%),
00328>                      FPSLOPE=[0.2](%),
00329>                      NSEG=[3]
00330> SECNUM=[1.1],
00331> ( SEGROUGH, SEGDIST (m))=[0.08,70 -0.035,72 0.08,77] NSEG ti
00332> ( DISTANCE (m), ELEVATION (m))=[0, 94.4]
00333>                      [70, 94.0]
00334>                      [71, 93.5]
00335>                      [72, 94.0]
00336>                      [77, 94.4]
00336> *-----|
00337> *-----|
00338> * DUMMY SECTION - FOR UNDEVELOPED
00339> *-----|
00340> CONTINUOUS STANDHYD ID=[8], NHYD=["VG-3"], DT=[15](min), AREA=[10.0](ha),
00341> XIMP=[0.9999999], TIMP=[0.9999999], DWF=[0](cms), LOSS=[1],
00342> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00343> DCAY=[4.14]/(hr), F=[0](mm),
00344> Pervious surfaces: IAper=[2.5](mm), SLPP=[1.5](%),
00345> LGP=[35](m), MNP=[0.250], SCP=[0](min),
00346> Impervious surfaces: IAimp=[2.5](mm), SLPI=[0.3](%),
00347> LGI=[1000](m), MNI=[0.013], SCI=[0](min)
00348> Continuous simulation parameters:
00349> IaRECper=[6](hrs), IaRECimp=[6](hrs),
00350> InterEventTime=[12](hrs), END=-1
00351> *-----|
00352> CONTINUOUS NASHYD  ID=[8], NHYD=["VG-3"], DT=[15]min, AREA=[9.88](ha),
00353> DWF=[0](cms), CN/C=[88], IA=[2.5](mm),
00354> N=[3], TP=[0.5]hrs,
00355> Continuous simulation parameters:

```

```

00356> IaRECper=[6](hrs),
00357> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00358> InterEventTime=[12](hrs)
00359> Baseflow simulation parameters:
00360> BaseFlowOption=[1],
00361> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00362> VHydCond=[1](mm/hr), END=-1
00363> *-----|
00364> *-----|
00365> * DUMMY SECTION - FOR UNDEVELOPED
00366> *-----|
00367> CONTINUOUS STANDHYD ID=[9], NHYD=["VG-3D"], DT=[15](min), AREA=[10.0](ha),
00368> XIMP=[0.427], TIMP=[0.577], DWF=[0](cms), LOSS=[1],
00369> Horton: Fo=[0.00001](mm/hr), Fc=[0.000005](mm/hr),
00370> DCAY=[4.14]/(hr), F=[0](mm),
00371> Pervious surfaces: IAper=[4.67](mm), SLPP=[0.5](%),
00372> LGP=[40](m), MNP=[0.250], SCP=[0](min),
00373> Impervious surfaces: IAimp=[1.57](mm), SLPI=[0.5](%),
00374> LGI=[453](m), MNI=[0.013], SCI=[0](min)
00375> Continuous simulation parameters:
00376> IaRECper=[3](hrs), IaRECimp=[2](hrs),
00377> InterEventTime=[12](hrs), END=-1
00378> *-----|
00379> CONTINUOUS STANDHYD ID=[9], NHYD=["VG-3D"], DT=[15](min), AREA=[30.72](ha),
00380> XIMP=[0.427], TIMP=[0.577], DWF=[0](cms), LOSS=[1],
00381> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00382> DCAY=[4.14]/(hr), F=[0](mm),
00383> Pervious surfaces: IAper=[2.5](mm), SLPP=[1.5](%),
00384> LGP=[35](m), MNP=[0.250], SCP=[0](min),
00385> Impervious surfaces: IAimp=[2.5](mm), SLPI=[0.3](%),
00386> LGI=[453](m), MNI=[0.013], SCI=[0](min)
00387> Continuous simulation parameters:
00388> IaRECper=[6](hrs), IaRECimp=[6](hrs),
00389> InterEventTime=[12](hrs), END=-1
00390> *-----|
00391> CONTINUOUS STANDHYD ID=[10], NHYD=["VG-4"], DT=[15](min), AREA=[24.6](ha),
00392> XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00393> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00394> DCAY=[4.14]/(hr), F=[0](mm),
00395> Pervious surfaces: IAper=[1.5](mm), SLPP=[1.5](%),
00396> LGP=[35](m), MNP=[0.250], SCP=[0](min),
00397> Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),
00398> LGI=[1000](m), MNI=[0.013], SCI=[0](min)
00399> Continuous simulation parameters:
00400> IaRECper=[3](hrs), IaRECimp=[2](hrs),
00401> InterEventTime=[12](hrs), END=-1
00402> *-----|
00403> ADD HYD             IDsum=[1], NHYD=["perthst"], IDs to add=[5 7 8 10]
00404> *-----|
00405> SAVE HYD           ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00406> HYD_COMMENT=[ "perthst" ]
00407> *-----|
00408> CONTINUOUS NASHYD  ID=[2], NHYD=["VG-5"], DT=[15]min, AREA=[34.4](ha),
00409> DWF=[0](cms), CN/C=[76], IA=[3.0](mm),
00410> N=[3], TP=[2.3]hrs,
00411> Continuous simulation parameters:
00412> IaRECper=[6](hrs),
00413> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00414> InterEventTime=[12](hrs)
00415> Baseflow simulation parameters:
00416> BaseFlowOption=[1],
00417> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00418> VHydCond=[1](mm/hr), END=-1
00419> *-----|
00420> ROUTE CHANNEL      IDout=[3], NHYD=["PerS"], IDin=[2],
00421>                      RDT=[15](min),
00422>                      CHLGTH=[550](m),  CHSLOPE=[0.2](%),
00423>                      FPSLOPE=[0.2](%),
00424> SECNUM=[1.1], NSEG=[3]
00425> ( SEGROUGH, SEGDIST (m))=[0.08,70 -0.035,72 0.08,77] NSEG ti
00426> ( DISTANCE (m), ELEVATION (m))=[0, 94.4]

```

```

00427> [70, 94.0]
00428> [71, 93.5]
00429> [72, 94.0]
00430> [77, 94.4]
00431> *%-----|-----|
00432> ADD HYD IDsum=[2], NHYD=["ar buck"], IDs to add=[1 3]
00433> *%-----|-----|
00434> SAVE HYD ID=[2], # OF PCYCLES=[-1], ICASEsh=[1]
00435> HYD_COMMENT=["ar buck"]
00436> *%-----|-----|
00437> ROUTE CHANNEL IDout=[9], NHYD=["VGR2-2"], IDin=[2],
00438> RDT=[15](min),
00439> CHLGTH=[520](m), CHSLOPE=[0.15](%),
00440> FPSLOPE=[0.15](%),
00441> SECNUM=[5.2], NSEG=[3]
00442> ( SEGROUGH, SEGDIST (m))=[0.08,65.27 -0.035,72.03 0.08,317.3]
00443> ( DISTANCE (m), ELEVATION (m))=
00444> [1.87 94
00445> 3.26 93.815
00446> 25.32 93.589
00447> 40.32 93.586
00448> 53.15 93.49
00449> 65.27 92.99
00450> 67.31 92.06
00451> 69.39 91.93
00452> 69.99 92.03
00453> 70.75 92.68
00454> 72.03 93
00455> 78.14 93
00456> 87.57 92.828
00457> 98.82 93
00458> 131.96 93.341
00459> 152.55 93.318
00460> 220.7 93.525
00461> 262.64 93.983
00462> 274.22 94
00463> 286.88 94
00464> 297.86 93.981
00465> 314.39 94.09
00466> 317.39, 95.09]
00467> *%-----|-----|
00468> CONTINUOUS NASHYD ID=[1], NHYD=["VG-6"], DT=[15]min, AREA=[94.2](ha),
00469> DWF=[0](cms), CN/C=[77], IA=[2.9](mm),
00470> N=[3], TP=[3.2]hrs,
00471> Continuous simulation parameters:
00472> IaRECper=[6](hrs),
00473> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00474> InterEventTime=[12](hrs)
00475> Baseflow simulation parameters:
00476> BaseFlowOption=[1],
00477> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00478> VHydCond=[1](mm/hr), END=-1
00479> *%-----|-----|
00480> ** ROUTE CHANNEL IDout=[2], NHYD=["VG-6"], IDin=[1],
00481> ** RDT=[15](min),
00482> ** CHLGTH=[600](m), CHSLOPE=[0.18](%),
00483> ** FPSLOPE=[0.18](%),
00484> ** SECNUM=[2.1], NSEG=[3]
00485> ** ( SEGROUGH, SEGDIST (m))=[0.05,700 -0.035,703 0.05,1000] N
00486> ** ( DISTANCE (m), ELEVATION (m))=[0, 94.6]
00487> ** [700, 94.5]
00488> ** [701.4, 94.1]
00489> ** [701.6, 94.1]
00490> ** [703, 94.5]
00491> ** [1000, 95.1]
00492> *%-----|-----|
00493> ** SAVE HYD ID=[2], # OF PCYCLES=[-1], ICASEsh=[1]
00494> ** HYD_COMMENT=["VG-6"]
00495> *%-----|-----|
00496> CONTINUOUS NASHYD ID=[2], NHYD=["VG-7"], DT=[15]min, AREA=[39.2](ha),
00497> DWF=[0](cms), CN/C=[80], IA=[3.5](mm),

```

```

00498> N=[3], TP=[2.9]hrs,
00499> Continuous simulation parameters:
00500> IaRECper=[6](hrs),
00501> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00502> InterEventTime=[12](hrs)
00503> Baseflow simulation parameters:
00504> BaseFlowOption=[1],
00505> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00506> VHydCond=[1](mm/hr), END=-1
00507> *%-----|-----|
00508> SAVE HYD ID=[2], # OF PCYCLES=[-1], ICASEsh=[1]
00509> HYD_COMMENT=["VG-7"]
00510> *%-----|-----|
00511> *#*****|*****|
00512> *# "JR-1" Added February 16, 2010
00513> *#*****|*****|
00514> CONTINUOUS NASHYD ID=[3], NHYD=["JR-1"], DT=[15]min, AREA=[32.6](ha),
00515> DWF=[0](cms), CN/C=[82], IA=[3.5](mm),
00516> N=[3], TP=[1.6]hrs,
00517> Continuous simulation parameters:
00518> IaRECper=[6](hrs),
00519> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00520> InterEventTime=[12](hrs)
00521> Baseflow simulation parameters:
00522> BaseFlowOption=[1],
00523> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00524> VHydCond=[1](mm/hr), END=-1
00525> *%-----|-----|
00526> ADD HYD IDsum=[4], NHYD=["EX-1"], IDs to add=[2 3](maximum ten)
00527> *%-----|-----|
00528> SAVE HYD ID=[4], # OF PCYCLES=[-1], ICASEsh=[1]
00529> HYD_COMMENT=["EX-1"]
00530> *%-----|-----|
00531> ROUTE CHANNEL IDout=[5], NHYD=["VG-7"], IDin=[4],
00532> RDT=[15](min),
00533> CHLGTH=[625](m), CHSLOPE=[0.1](%),
00534> FPSLOPE=[0.1](%),
00535> SECNUM=[5.3], NSEG=[3]
00536> ( SEGROUGH, SEGDIST (m))=[0.08,7.6 -0.035,11.2 0.08,18.8] NS
00537> ( DISTANCE (m), ELEVATION (m))=[0,95.45]
00538> [5,95.35]
00539> [7.1,94.70]
00540> [7.6,94.70]
00541> [7.9,94.35]
00542> [10.9,94.35]
00543> [11.2,94.70]
00544> [11.7,94.70]
00545> [13.8,95.35]
00546> [18.8,95.45]
00547> *%-----|-----|
00548> CONTINUOUS NASHYD ID=[6], NHYD=["MD"], DT=[15]min, AREA=[1.3](ha),
00549> DWF=[0](cms), CN/C=[88], IA=[2.6](mm),
00550> N=[3], TP=[1.0]hrs,
00551> Continuous simulation parameters:
00552> IaRECper=[6](hrs),
00553> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00554> InterEventTime=[12](hrs)
00555> Baseflow simulation parameters:
00556> BaseFlowOption=[1],
00557> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00558> VHydCond=[1](mm/hr), END=-1
00559> *%-----|-----|
00560> ADD HYD IDsum=[7], NHYD=["MAT-A"], IDs to add=[1 5 6](maximum ten)
00561> *%-----|-----|
00562> SAVE HYD ID=[7], # OF PCYCLES=[-1], ICASEsh=[1]
00563> HYD_COMMENT=["MAT-A"]
00564> *%-----|-----|
00565> ROUTE CHANNEL IDout=[8], NHYD=["MOORE"], IDin=[7],
00566> RDT=[15](min),
00567> CHLGTH=[600](m), CHSLOPE=[0.1](%),
00568> FPSLOPE=[0.1](%),

```

```
00569> SECNUM=[2.1], NSEQ=[3]
00570> ( SEGRROUGH, SEGDIST (m))=[0.08,8.43 -0.035,12.53 0.08,20.96]
00571> ( DISTANCE (m), ELEVATION (m))=[0, 95.23]
00572> [5, 95.13]
00573> [7.43, 94.32]
00574> [8.43, 94.30]
00575> [8.98, 93.75]
00576> [11.98, 93.75]
00577> [12.53, 94.30]
00578> [13.53, 94.32]
00579> [15.96, 95.13]
00580> [20.96, 95.23]
00581> *%-----|-----|
00582> SAVE HYD ID=[8], # OF PCYCLES=[-1], ICASEsh=[1]
00583> HYD_COMMENT=["MOORE"]
00584> *%-----|-----|
00585> *#####|#####|
00586> *# DUMMY SECTION - FOR UNDEVELOPED
00587> *#####|#####|
00588> CONTINUOUS STANDHYD ID=[7], NHYD=["VG-8"], DT=[15](min), AREA=[10.0](ha),
00589> XIMP=[0.9999999], TIMP=[0.9999999], DWF=[0](cms), LOSS=[1],
00590> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00591> DCAY=[4.14](/hr), F=[0](mm),
00592> Pervious surfaces: IAPer=[2.6](mm), SLPP=[1.5](%),
00593> LGP=[35](m), MNP=[0.250], SCP=[0](min),
00594> Impervious surfaces: IAimp=[2.6](mm), SLPI=[0.3](%),
00595> LGI=[1000](m), MNI=[0.013], SCI=[0](min)
00596> Continuous simulation parameters:
00597> IaRECper=[6](hrs), IaRECimp=[6](hrs),
00598> InterEventTime=[12](hrs), END=-1
00599> *%-----|-----|
00600> CONTINUOUS NASHYD ID=[7], NHYD=["VG-8"], DT=[15]min, AREA=[10.30](ha),
00601> DWF=[0](cms), CN/C=[88], IA=[2.6](mm),
00602> N=[3], TP=[1.1]hrs,
00603> Continuous simulation parameters:
00604> IaRECper=[6](hrs),
00605> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00606> InterEventTime=[12](hrs)
00607> Baseflow simulation parameters:
00608> BaseFlowOption=[1],
00609> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00610> VHydCond=[1](mm/hr), END=-1
00611> *%-----|-----|
00612> *#####|#####|
00613> *# DUMMY SECTION - FOR DEVELOPED
00614> *#####|#####|
00615> CONTINUOUS STANDHYD ID=[8], NHYD=["VG-8D"], DT=[15](min), AREA=[10.0](ha),
00616> XIMP=[0.372], TIMP=[0.522], DWF=[0](cms), LOSS=[1],
00617> Horton: Fo=[0.00001](mm/hr), Fc=[0.000005](mm/hr),
00618> DCAY=[4.14](/hr), F=[0](mm),
00619> Pervious surfaces: IAPer=[4.67](mm), SLPP=[0.5](%),
00620> LGP=[40](m), MNP=[0.250], SCP=[0](min),
00621> Impervious surfaces: IAimp=[1.57](mm), SLPI=[0.5](%),
00622> LGI=[2.58](m), MNI=[0.013], SCI=[0](min)
00623> Continuous simulation parameters:
00624> IaRECper=[3](hrs), IaRECimp=[2](hrs),
00625> InterEventTime=[12](hrs), END=-1
00626> *%-----|-----|
00627> CONTINUOUS STANDHYD ID=[8], NHYD=["VG-8D"], DT=[15](min), AREA=[80.2](ha),
00628> XIMP=[0.372], TIMP=[0.522], DWF=[0](cms), LOSS=[1],
00629> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00630> DCAY=[4.14](/hr), F=[0](mm),
00631> Pervious surfaces: IAPer=[4.67](mm), SLPP=[0.5](%),
00632> LGP=[40](m), MNP=[0.250], SCP=[0](min),
00633> Impervious surfaces: IAimp=[1.57](mm), SLPI=[0.5](%),
00634> LGI=[731](m), MNI=[0.013], SCI=[0](min)
00635> Continuous simulation parameters:
00636> IaRECper=[3](hrs), IaRECimp=[2](hrs),
00637> InterEventTime=[12](hrs), END=-1
00638> *%-----|-----|
00639> CONTINUOUS STANDHYD ID=[3], NHYD=["VG-9"], DT=[15](min), AREA=[11.4](ha),
```

```
00640> XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00641> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00642> DCAY=[4.14](/hr), F=[0](mm),
00643> Pervious surfaces: IAPer=[1.5](mm), SLPP=[1.5](%),
00644> LGP=[50](m), MNP=[0.250], SCP=[0](min),
00645> Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),
00646> LGI=[731](m), MNI=[0.013], SCI=[0](min)
00647> Continuous simulation parameters:
00648> IaRECper=[3](hrs), IaRECimp=[2](hrs),
00649> InterEventTime=[12](hrs), END=-1
00650> *%-----|-----|
00651> STORE HYD ID=[4],NHYD=["POND1"], DT=[15](min), AREA=[84.67](ha),
00652> FLOW=[0
00653> 0.000335072
00654> 0.000806107
00655> 0.00116479
00656> 0.00169205
00657> 0.00212901
00658> 0.00259202
00659> 0.00309396
00660> 0.00352556
00661> 0.00399587
00662> 0.00445046
00663> 0.00488934
00664> 0.00534811
00665> 0.00578199
00666> 0.00622907
00667> 0.00667562
00668> 0.0071083
00669> 0.0076057
00670> 0.00822551
00671> 0.00888475
00672> 0.00954992
00673> 0.0102305
00674> 0.0109053
00675> 0.0115818
00676> 0.0122566
00677> 0.0129357
00678> 0.0136457
00679> 0.0143661
00680> 0.0150764
00681> 0.0157913
00682> 0.0165033
00683> 0.0172122
00684> 0.0179216
00685> 0.0186271
00686> 0.0193318
00687> 0.0200351
00688> 0.0207356
00689> 0.0214354
00690> 0.0221328
00691> 0.0228285
00692> 0.0235228
00693> 0.0242148
00694> 0.0249056
00695> 0.0255943
00696> 0.0262814
00697> 0.026967
00698> 0.0276506
00699> 0.0283326
00700> 0.0290252
00701> 0.0303692
00702> 0.0317814
00703> 0.0332017
00704> 0.0346181
00705> 0.0360405
00706> 0.0374515
00707> 0.0388585
00708> 0.0402612
00709> 0.0416546
00710> 0.0430456
```

00711>	0.0444292	00782>	0.160484
00712>	0.0458091	00783>	0.163331
00713>	0.0471844	00784>	0.166139
00714>	0.0485517	00785>	0.169428
00715>	0.0499151	00786>	0.173629
00716>	0.0512716	00787>	0.177739
00717>	0.0526224	00788>	0.181838
00718>	0.0539683	00789>	0.185999
00719>	0.0553073	00790>	0.190128
00720>	0.0566416	00791>	0.196653
00721>	0.0579698	00792>	0.209522
00722>	0.0592924	00793>	0.230769
00723>	0.0606098	00794>	0.269278
00724>	0.0619211	00795>	0.327265
00725>	0.0632434	00796>	2.5691
00726>	0.0646223	00797>	3.22018
00727>	0.0660108	00798>	3.59295
00728>	0.0673951	00799>	3.90364
00729>	0.0687816	00800>	4.13985
00730>	0.0701569	00801>	4.24291
00731>	0.0715285	00802>	4.258
00732>	0.0728955	00803>	4.21601
00733>	0.0742539	00804>	4.10015
00734>	0.0756095	00805>	3.95259
00735>	0.0769576	00806>	3.79305
00736>	0.0783004	00807>	3.67752
00737>	0.0796657	00808>	3.58552
00738>	0.0811311	00809>	3.4904
00739>	0.0826224	00810>	3.39068
00740>	0.0840973	00811>	3.2983
00741>	0.0855867	00812>	3.20724
00742>	0.0870873	00813>	3.11887
00743>	0.088568	00814>	3.03267
00744>	0.0900345	00815>	2.94388
00745>	0.0914983	00816>	2.85663
00746>	0.0929614	00817>	2.77507
00747>	0.0944156	00818>	2.69573
00748>	0.0958694	00819>	2.61762
00749>	0.0973545	00820>	2.53428
00750>	0.0988171	00821>	2.44911
00751>	0.1005	00822>	2.36556
00752>	0.102083	00823>	2.28777
00753>	0.103672	00824>	2.21255
00754>	0.105246	00825>	2.13997
00755>	0.106837	00826>	1.8867
00756>	0.108478	00827>	1.65847
00757>	0.110109	00828>	1.46915
00758>	0.111735	00829>	1.31352
00759>	0.113366	00830>	1.18455
00760>	0.11498	00831>	1.07815
00761>	0.116633	00832>	0.990485
00762>	0.118375	00833>	0.918025
00763>	0.120125	00834>	0.858265
00764>	0.121862	00835>	0.809098
00765>	0.123614	00836>	0.771244
00766>	0.125347	00837>	0.739495
00767>	0.127116	00838>	0.712829
00768>	0.128986	00839>	0.690314
00769>	0.130859	00840>	0.671377
00770>	0.132721	00841>	0.655583
00771>	0.134591	00842>	0.642458
00772>	0.136438	00843>	0.631472
00773>	0.138423	00844>	0.622292
00774>	0.140636	00845>	0.608619
00775>	0.142868	00846>	0.584205
00776>	0.145071	00847>	0.560635
00777>	0.147307	00848>	0.542493
00778>	0.149518	00849>	0.524996
00779>	0.151977	00850>	0.511334
00780>	0.154833	00851>	0.49978
00781>	0.157663	00852>	0.489767

00853> 0.481719
00854> 0.474942
00855> 0.469285
00856> 0.464526
00857> 0.460681
00858> 0.457349
00859> 0.454626
00860> 0.45235
00861> 0.450371
00862> 0.448826
00863> 0.447461
00864> 0.446327
00865> 0.445421
00866> 0.444607
00867> 0.443972
00868> 0.44342
00869> 0.442959
00870> 0.442588
00871> 0.442265
00872> 0.442
00873> 0.441777
00874> 0.441593
00875> 0.441441
00876> 0.44131
00877> 0.441204
00878> 0.441115
00879> 0.441039
00880> 0.440977
00881> 0.440924
00882> 0.440881
00883> 0.440845
00884> 0.440814
00885> 0.440789
00886> 0.440768
00887> 0.44075
00888> 0.440734
00889> 0.440722
00890> 0.440713
00891> 0.440704
00892> 0.440695
00893> 0.437672
00894> 0.428432
00895> 0.419335
00896> 0.41207
00897> 0.40504
00898> 0.399762
00899> 0.395059
00900> 0.391176
00901> 0.388003
00902> 0.385321
00903> 0.383076
00904> 0.381113
00905> 0.379649
00906> 0.378288
00907> 0.377186
00908> 0.376308
00909> 0.375491
00910> 0.374915
00911> 0.374353
00912> 0.373894
00913> 0.37355
00914> 0.373216
00915> 0.372975
00916> 0.37275
00917> 0.372568
00918> 0.372426
00919> 0.372292
00920> 0.372192
00921> 0.372101
00922> 0.37203
00923> 0.37197

00924> 0.371916
00925> 0.371876
00926> 0.371839
00927> 0.371811
00928> 0.371786
00929> 0.371764
00930> 0.371749
00931> 0.371732
00932> 0.371721
00933> 0.371711
00934> 0.371701
00935> 0.371696
00936> 0.371689
00937> 0.371684
00938> 0.371681
00939> 0.371677](cms) END=-1
00940> *%-----|-----|
00941> ADD HYD IDsum=[1], NHYD=["Fortune"], IDs to add=[3 4 7 8 9]
00942> *%-----|-----|
00943> SAVE HYD ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00944> HYD_COMMENT=["Fortune"]
00945> *%-----|-----|
00946> ROUTE CHANNEL IDout=[3], NHYD=["VGR2-3"], IDin=[1],
00947> RDT=[15](min),
00948> CHLGTH=[750](m), CHSLOPE=[0.2](%),
00949> FPSLOPE=[0.2](%),
00950> SECNUM=[5.3], NSEG=[3]
00951> (SEGROUGH, SEGDIST (m))=[0.05,3.22 -0.035,47.84 0.05,77.80]
00952> (DISTANCE (m), ELEVATION (m))=[0, 93.5
00953> 3.22, 93
00954> 20.87, 92.5
00955> 42.19, 92
00956> 47.84, 92
00957> 48.60, 92.5
00958> 50.14, 93
00959> 72.67, 93.526
00960> 77.80, 93.5]
00961> *%-----|-----|
00962> CONTINUOUS STANDHYD ID=[2], NHYD=["VG-10"], DT=[15](min), AREA=[20.3](ha),
00963> XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00964> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00965> DCAY=[4.14](/hr), F=[0](mm),
00966> Pervious surfaces: IAper=[1.5](mm), SLPP=[1.5](%),
00967> LGP=[50](m), MNP=[0.250], SCP=[0](min),
00968> Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),
00969> LGI=[560](m), MNI=[0.013], SCI=[0](min)
00970> Continuous simulation parameters:
00971> IaRECper=[3](hrs), IaRECimp=[2](hrs),
00972> InterEventTime=[12](hrs), END=-1
00973> *%-----|-----|
00974> ADD HYD IDsum=[9], NHYD=["VG"], IDs to add=[2 3]
00975> *%-----|-----|
00976> SAVE HYD ID=[9], # OF PCYCLES=[-1], ICASEsh=[1]
00977> HYD_COMMENT=["Flow from Van Gaal Drain at Jock River"]
00978> *%-----|-----|
00979> *****
00980> * Jock River
00981> *****
00982> *#####
00983> *# DUMMY SECTION - FOR UNDEVELOPED
00984> *#####
00985> CONTINUOUS STANDHYD ID=[3], NHYD=["JR-2"], DT=[15](min), AREA=[10.0](ha),
00986> XIMP=[0.999999], TIMP=[0.999999], DWF=[0](cms), LOSS=[1],
00987> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00988> DCAY=[4.14](/hr), F=[0](mm),
00989> Pervious surfaces: IAper=[2.5](mm), SLPP=[1.5](%),
00990> LGP=[35](m), MNP=[0.250], SCP=[0](min),
00991> Impervious surfaces: IAimp=[2.5](mm), SLPI=[0.3](%),
00992> LGI=[182](m), MNI=[0.013], SCI=[0](min)
00993> Continuous simulation parameters:
00994> IaRECper=[6](hrs), IaRECimp=[6](hrs),

```
00995> InterEventTime=[12](hrs), END=-1
00996> *%-----|
00997> CONTINUOUS NASHYD ID=[3], NHYD=["JR-2"], DT=[15]min, AREA=[4.96](ha),
00998> DWF=[0](cms), CN/C=[88], IA=[2.5](mm),
00999> N=[3], TP=[0.8]hrs,
01000> Continuous simulation parameters:
01001> IaRECper=[6](hrs),
01002> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
01003> InterEventTime=[12](hrs)
01004> Baseflow simulation parameters:
01005> BaseFlowOption=[1],
01006> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
01007> VHydCond=[1](mm/hr), END=-1
01008> *%-----|
01009> *****|
01010> *# DUMMY SECTION - FOR DEVELOPED
01011> *****|
01012> CONTINUOUS STANDHYD ID=[4], NHYD=["JR-2D"], DT=[15](min), AREA=[10.0](ha),
01013> XIMP=[0.395], TIMP=[0.545], DWF=[0](cms), LOSS=[1],
01014> Horton: Fo=[0.00001](mm/hr), Fc=[0.000005](mm/hr),
01015> DCAY=[4.14](/hr), F=[0](mm),
01016> Pervious surfaces: IAper=[4.67](mm), SLPP=[0.5](%),
01017> LGP=[40](m), MNP=[0.250], SCP=[0](min),
01018> Impervious surfaces: IAimp=[1.57](mm), SLPI=[0.5](%),
01019> LGI=[182](m), MNI=[0.013], SCI=[0](min)
01020> Continuous simulation parameters:
01021> IaRECper=[3](hrs), IaRECimp=[2](hrs),
01022> InterEventTime=[12](hrs), END=-1
01023> *%-----|
01024> CONTINUOUS STANDHYD ID=[4], NHYD=["JR-2D"], DT=[15](min), AREA=[15.54](ha),
01025> XIMP=[0.395], TIMP=[0.545], DWF=[0](cms), LOSS=[1],
01026> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
01027> DCAY=[4.14](/hr), F=[0](mm),
01028> Pervious surfaces: IAper=[4.67](mm), SLPP=[0.5](%),
01029> LGP=[40](m), MNP=[0.250], SCP=[0](min),
01030> Impervious surfaces: IAimp=[1.57](mm), SLPI=[0.5](%),
01031> LGI=[182](m), MNI=[0.013], SCI=[0](min)
01032> Continuous simulation parameters:
01033> IaRECper=[3](hrs), IaRECimp=[2](hrs),
01034> InterEventTime=[12](hrs), END=-1
01035> *%-----|
01036> CONTINUOUS NASHYD ID=[4], NHYD=["JR-3"], DT=[15]min, AREA=[6.86](ha),
01037> DWF=[0](cms), CN/C=[88], IA=[2.5](mm),
01038> N=[3], TP=[0.2]hrs,
01039> Continuous simulation parameters:
01040> IaRECper=[6](hrs),
01041> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
01042> InterEventTime=[12](hrs)
01043> Baseflow simulation parameters:
01044> BaseFlowOption=[1],
01045> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
01046> VHydCond=[1](mm/hr), END=-1
01047> *%-----|
01048> STORE HYD ID=[6],NHYD=["POND2"], DT=[15](min), AREA=[45.53](ha),
01049> FLOW=[0
01050> 0.000213196
01051> 0.000591786
01052> 0.000824112
01053> 0.00124469
01054> 0.00153586
01055> 0.00193772
01056> 0.00229613
01057> 0.00266183
01058> 0.00304262
01059> 0.00338897
01060> 0.0037697
01061> 0.00411594
01062> 0.00448491
01063> 0.0048382
01064> 0.00519446
01065> 0.00555005
01066> 0.00592218
01067> 0.00639754
01068> 0.00687827
01069> 0.00737418
01070> 0.00787848
01071> 0.00838576
01072> 0.008896
01073> 0.00939925
01074> 0.00990832
01075> 0.0104317
01076> 0.0109529
01077> 0.0114726
01078> 0.0119929
01079> 0.012508
01080> 0.0130224
01081> 0.0135319
01082> 0.0140391
01083> 0.0145425
01084> 0.0150428
01085> 0.0155401
01086> 0.016034
01087> 0.016525
01088> 0.0170118
01089> 0.0174965
01090> 0.0179778
01091> 0.0267977
01092> 0.0355742
01093> 0.0439165
01094> 0.0518424
01095> 0.0593813
01096> 0.0665465
01097> 0.0733614
01098> 0.0799492
01099> 0.0867407
01100> 0.0933065
01101> 0.0996152
01102> 0.105764
01103> 0.111522
01104> 0.117074
01105> 0.122334
01106> 0.12735
01107> 0.132142
01108> 0.136695
01109> 0.141049
01110> 0.145193
01111> 0.149149
01112> 0.152923
01113> 0.15652
01114> 0.159956
01115> 0.163232
01116> 0.166359
01117> 0.169344
01118> 0.172193
01119> 0.174913
01120> 0.177509
01121> 0.179989
01122> 0.182394
01123> 0.184982
01124> 0.187359
01125> 0.189696
01126> 0.192036
01127> 0.194221
01128> 0.196366
01129> 0.198383
01130> 0.200324
01131> 0.202178
01132> 0.203944
01133> 0.205638
01134> 0.207389
01135> 0.209827
01136> 0.212088
```


01137>	0.214296	01208>	1.86155
01138>	0.216564	01209>	1.81249
01139>	0.218598	01210>	1.76516
01140>	0.220636	01211>	1.71931
01141>	0.222535	01212>	1.67316
01142>	0.224364	01213>	1.62686
01143>	0.226118	01214>	1.58311
01144>	0.227781	01215>	1.54079
01145>	0.229384	01216>	1.4996
01146>	0.231036	01217>	1.45993
01147>	0.233302	01218>	1.41967
01148>	0.235683	01219>	1.37905
01149>	0.237977	01220>	1.34079
01150>	0.240333	01221>	1.30372
01151>	0.242511	01222>	1.26795
01152>	0.244676	01223>	1.23347
01153>	0.246984	01224>	1.20018
01154>	0.249176	01225>	1.16793
01155>	0.251295	01226>	1.13686
01156>	0.253383	01227>	1.10699
01157>	0.255355	01228>	1.07813
01158>	0.257422	01229>	1.05029
01159>	0.260244	01230>	1.02341
01160>	0.262977	01231>	0.997482
01161>	0.265575	01232>	0.972466
01162>	0.268168	01233>	0.948367
01163>	0.270591	01234>	0.925132
01164>	0.273073	01235>	0.902708
01165>	0.276047	01236>	0.881083
01166>	0.278978	01237>	0.860224
01167>	0.28174	01238>	0.840104
01168>	0.284496	01239>	0.820703
01169>	0.287072	01240>	0.80199
01170>	0.289954	01241>	0.783937
01171>	0.294483	01242>	0.765747
01172>	0.299078	01243>	0.746438
01173>	0.303521	01244>	0.727697
01174>	0.308057	01245>	0.709794
01175>	0.312305	01246>	0.692125
01176>	0.317042	01247>	0.675109
01177>	0.324107	01248>	0.658667
01178>	0.331142	01249>	0.642701
01179>	0.337939	01250>	0.627331
01180>	0.344767	01251>	0.612456
01181>	0.351207	01252>	0.598095
01182>	0.358946	01253>	0.584238
01183>	0.371816	01254>	0.570858
01184>	0.384751	01255>	0.557967
01185>	0.397523	01256>	0.545591
01186>	0.410111	01257>	0.533642
01187>	0.422037	01258>	0.522125
01188>	0.442679	01259>	0.511027
01189>	0.499107	01260>	0.500328
01190>	0.593179	01261>	0.490025
01191>	0.777332	01262>	0.4801
01192>	1.07755	01263>	0.470544
01193>	1.48294	01264>	0.461344
01194>	1.81223	01265>	0.45249
01195>	1.99911	01266>	0.44397
01196>	2.12227	01267>	0.435774
01197>	2.19389	01268>	0.427891
01198>	2.22797	01269>	0.420307
01199>	2.235	01270>	0.413018
01200>	2.22757	01271>	0.406011
01201>	2.19838	01272>	0.399277
01202>	2.15774	01273>	0.392806
01203>	2.11235	01274>	0.38659
01204>	2.06387	01275>	0.380619
01205>	2.0141	01276>	0.374884
01206>	1.96324	01277>	0.369377
01207>	1.91082	01278>	0.36409

01279> 0.359014
01280> 0.354142
01281> 0.349466
01282> 0.344983
01283> 0.340691
01284> 0.336571
01285> 0.332619
01286> 0.328828
01287> 0.325192
01288> 0.321705
01289> 0.31836
01290> 0.314956
01291> 0.310745
01292> 0.306505
01293> 0.302383
01294> 0.298187
01295> 0.294295
01296> 0.290439
01297> 0.286787
01298> 0.28328
01299> 0.279896
01300> 0.276686
01301> 0.273577
01302> 0.270623
01303> 0.267779
01304> 0.265059
01305> 0.262455
01306> 0.259956
01307> 0.257568
01308> 0.255276
01309> 0.253085
01310> 0.250985
01311> 0.248975
01312> 0.247051
01313> 0.245208
01314> 0.243444
01315> 0.241755
01316> 0.240139
01317> 0.238592
01318> 0.237111
01319> 0.235694
01320> 0.234337
01321> 0.233039
01322> 0.231797
01323> 0.230608
01324> 0.229471
01325> 0.228382
01326> 0.227341
01327> 0.226344
01328> 0.225391
01329> 0.224479
01330> 0.223606
01331> 0.222771
01332> 0.221973
01333> 0.221209
01334> 0.220478
01335> 0.219778
01336> 0.219111(cms) END=-1
01337> *%-----|-----
01338> ADD HYD IDsum=[5], NHYD=["JockVG"], IDs to add=[3 4 6 9]
01339> *%-----|-----
01340> SAVE HYD ID=[5], # OF PCYCLES=[-1], ICASEsh=[1]
01341> HYD_COMMENT=["Flow From Subject Area At Jock River"]
01342> *%-----|-----
01343> START TZERO=[1968.0501], METOUT=[2], NSTORM=[0], NRUN=[68]
01344> START TZERO=[1969.0501], METOUT=[2], NSTORM=[0], NRUN=[69]
01345> START TZERO=[1970.0501], METOUT=[2], NSTORM=[0], NRUN=[70]
01346> START TZERO=[1971.0501], METOUT=[2], NSTORM=[0], NRUN=[71]
01347> START TZERO=[1972.0501], METOUT=[2], NSTORM=[0], NRUN=[72]
01348> START TZERO=[1973.0501], METOUT=[2], NSTORM=[0], NRUN=[73]
01349> START TZERO=[1974.0501], METOUT=[2], NSTORM=[0], NRUN=[74]

01350> START TZERO=[1975.0501], METOUT=[2], NSTORM=[0], NRUN=[75]
01351> START TZERO=[1976.0501], METOUT=[2], NSTORM=[0], NRUN=[76]
01352> START TZERO=[1977.0501], METOUT=[2], NSTORM=[0], NRUN=[77]
01353> START TZERO=[1978.0501], METOUT=[2], NSTORM=[0], NRUN=[78]
01354> START TZERO=[1979.0501], METOUT=[2], NSTORM=[0], NRUN=[79]
01355> START TZERO=[1980.0501], METOUT=[2], NSTORM=[0], NRUN=[80]
01356> START TZERO=[1981.0501], METOUT=[2], NSTORM=[0], NRUN=[81]
01357> START TZERO=[1982.0501], METOUT=[2], NSTORM=[0], NRUN=[82]
01358> START TZERO=[1983.0501], METOUT=[2], NSTORM=[0], NRUN=[83]
01359> START TZERO=[1984.0501], METOUT=[2], NSTORM=[0], NRUN=[84]
01360> START TZERO=[1985.0501], METOUT=[2], NSTORM=[0], NRUN=[85]
01361> START TZERO=[1986.0501], METOUT=[2], NSTORM=[0], NRUN=[86]
01362> START TZERO=[1987.0501], METOUT=[2], NSTORM=[0], NRUN=[87]
01363> START TZERO=[1988.0501], METOUT=[2], NSTORM=[0], NRUN=[88]
01364> START TZERO=[1989.0501], METOUT=[2], NSTORM=[0], NRUN=[89]
01365> START TZERO=[1990.0501], METOUT=[2], NSTORM=[0], NRUN=[90]
01366> START TZERO=[1991.0501], METOUT=[2], NSTORM=[0], NRUN=[91]
01367> START TZERO=[1992.0501], METOUT=[2], NSTORM=[0], NRUN=[92]
01368> START TZERO=[1993.0501], METOUT=[2], NSTORM=[0], NRUN=[93]
01369> START TZERO=[1994.0501], METOUT=[2], NSTORM=[0], NRUN=[94]
01370> START TZERO=[1995.0501], METOUT=[2], NSTORM=[0], NRUN=[95]
01371> START TZERO=[1996.0501], METOUT=[2], NSTORM=[0], NRUN=[96]
01372> START TZERO=[1997.0501], METOUT=[2], NSTORM=[0], NRUN=[97]
01373> START TZERO=[1998.0501], METOUT=[2], NSTORM=[0], NRUN=[98]
01374> START TZERO=[1999.0501], METOUT=[2], NSTORM=[0], NRUN=[99]
01375> START TZERO=[2000.0501], METOUT=[2], NSTORM=[0], NRUN=[200]
01376> START TZERO=[2001.0501], METOUT=[2], NSTORM=[0], NRUN=[201]
01377> START TZERO=[2002.0501], METOUT=[2], NSTORM=[0], NRUN=[202]
01378> START TZERO=[2003.0501], METOUT=[2], NSTORM=[0], NRUN=[203]
01379> *%-----|-----
01380> FINISH