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00001> 2      Metric units
00002> *#*****
00003> *# SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00004> *#*****
00005> *# Project Name: [Richmond FPM] 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> *# Modeller : [Bryan Willcott B.Eng.]
00009> *# Company : J.F. Sabourin and Associates
00010> *# License # : 3410370
00011> *#*****
00012>
00013> *#*****
00014> *# [BW] May 27, 2009
00015> *# This model has been updated using revised values for Tp. Previous versions
00016> *# of this model used a calculated Tp=0.6Tc. This model used a calculated
00017> *# Tp=0.6Tc.
00018> *#*****
00019> *# [BW] July 22, 2009
00020> *# This model has been revised to include "existing" cross section information
00021> *# received from Robinson Consultants. The Cross section revised in the model
00022> *# is Sec 5.2 (channel receiving flow from "arbucks"). Also, channel and
00023> *# floodplain slopes for ROUTE CHANNEL commands were updated to be equal
00024> *#*****
00025> *# [BW] August 6, 2009
00026> *# This model has been revised to include cross section information
00027> *# from Robinson Consultants Engineer's Report July 2003. The cross
00028> *# section revised in the model is Sec 5.1. Cross sections Sec 1.03
00029> *# and Sec 5.3 have also been revised
00030> *#*****
00031> *# [BW] August 31, 2009
00032> *# Model updated to include the proposed DSEL berm. This affects the geometry
00033> *# of Route Channel Sect 5.2 located on the Arbuckle drain. Route Channels 5.2
00034> *# and 1.03 have also been revised to reduce the number of values in the
00035> *# x-y matrix.
00036> *#*****
00037> *# [BW] November 16, 2009
00038> *# Model updated to include revised CN and Tp values subsequent to review of
00039> *# memo received from AECOM on Oct. 2, 2009
00040> *#*****
00041> *# [BW] March 4, 2010
00042> *# Model converted to continuous model for water balance analysis
00043> *#*****
00044> *#
00045> *# 25mm 4HR Chicago Storm
00046> START TZERO=[1967.0501], METOUT=[2], NSTORM=[0], NRUN=[67]
00047> *# ["4HR-25mm.stm"]
00048> *#-----|-----|
00049> *# READ STORM STORM_FILENAME=["STORM.001"]
00050> *#-----|-----|
00051> READ AES DATA AES_FILENAME=["6106000.123"], IELEM=[123],
00052> *# START_DATE=[0], END_DATE=[-183]
00053> *#-----|-----|
00054> COMPUTE API APII=[50], APIK=[0.90]/day
00055> *#-----|-----|
00056> *#*****
00057> *# Van Gaal / Arbuckle Drain
00058> *#*****
00059> *# DSEL SUBCATCHMENT VG-1 HAS BEEN BROKEN INTO 6 SUB-AREAS (BW)
00060> *#*****
00061> *#-----|-----|
00062> CONTINUOUS NASHYD ID=[1], NHYD=["VG-1A"], DT=[15]min, AREA=[311.9](ha),
00063> *# DWF=[0](cms), CN/C=[73], IA=[3.9](mm),
00064> *# N=[3], TP=[5.3]hrs,
00065> *# Continuous simulation parameters:
00066> *# IaRECper=[6](hrs),
00067> *# SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00068> *# InterEventTime=[12](hrs)
00069> *# Baseflow simulation parameters:
00070> *# BaseFlowOption=[1],
00071> *# InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)

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00072> *#-----|-----|
00073> *# VHydCond=[1](mm/hr), END=-1
00074> *#-----|-----|
00075> *# ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00076> *# HYD_COMMENT=["VG-1A"]
00077> *#-----|-----|
00078> *#*****
00079> *# Tp FOR VG-1B HAS BEEN REVISED TO REFLECT A HYDRAULIC LENGTH OF 1710 m, A
00080> *# LENGTH THAT INCLUDES DISTANCE TO THE VG-1 CONFLUENCE IN ADDITION TO THE
00081> *# LONGEST FLOW PATH WITHIN VG-1B. THIS IS DONE TO SIMULATE CHANNEL ROUTING
00082> *#*****
00083> *# CONTINUOUS NASHYD ID=[2], NHYD=["VG-1B"], DT=[15]min, AREA=[24.8](ha),
00084> *# DWF=[0](cms), CN/C=[73], IA=[4.0](mm),
00085> *# N=[3], TP=[2.7]hrs,
00086> *# Continuous simulation parameters:
00087> *# IaRECper=[6](hrs),
00088> *# SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00089> *# InterEventTime=[12](hrs)
00090> *# Baseflow simulation parameters:
00091> *# BaseFlowOption=[1],
00092> *# InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00093> *# VHydCond=[1](mm/hr), END=-1
00094> *#-----|-----|
00095> *#*****
00096> *# VG1-1 IS THE SUM OF FLOWS TO THE CONFLUENCE OF NORTHERN MOST WATERCOURSE IN
00097> *# OUR AREA OF STUDY WITH THE ROADSIDE DITCH ON GARVIN ROAD
00098> *#*****
00099> *# ADD HYD IDsum=[3], NHYD=["VG1-1"], IDs to add=[1 2]
00100> *#-----|-----|
00101> *# ID=[3], # OF PCYCLES=[-1], ICASEsh=[1]
00102> *# HYD_COMMENT=["VG1-1"]
00103> *#-----|-----|
00104> *# CONTINUOUS NASHYD ID=[4], NHYD=["VG-1D"], DT=[15]min, AREA=[47.8](ha),
00105> *# DWF=[0](cms), CN/C=[88], IA=[2.5](mm),
00106> *# N=[3], TP=[1.8]hrs,
00107> *# Continuous simulation parameters:
00108> *# IaRECper=[6](hrs),
00109> *# SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00110> *# InterEventTime=[12](hrs)
00111> *# Baseflow simulation parameters:
00112> *# BaseFlowOption=[1],
00113> *# InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00114> *# VHydCond=[1](mm/hr), END=-1
00115> *#-----|-----|
00116> *#*****
00117> *# VG1-2 IS THE SUM OF FLOWS AT THE GARVIN ROAD CROSS CULVERT AND
00118> *# CONSERVATIVELY INCLUDES THE AREA VG-1D, WHICH IS LOCATED JUST DOWNSTREAM
00119> *# OF THE CULVERT
00120> *#*****
00121> *#
00122> *# ADD HYD IDsum=[5], NHYD=["VG1-2"], IDs to add=[3 4]
00123> *#-----|-----|
00124> *# ID=[5], # OF PCYCLES=[-1], ICASEsh=[1]
00125> *# HYD_COMMENT=["VG1-2"]
00126> *#-----|-----|
00127> *# ROUTE CHANNEL IDout=[6], NHYD=["VG1R-2"], IDin=[5],
00128> *# RDT=[15](min),
00129> *# CHLGLTH=[865](m), CHSLOPE=[0.15](%),
00130> *# FPSLOPE=[0.15](%),
00131> *# SECNUM=[1.01], NSEG=[3]
00132> *# ( SEGROUGH, SEGDIST (m))=[0.08,51.41 -0.035,55.58 0.08,228.3
00133> *# ( DISTANCE (m), ELEVATION (m))=[0, 96.719]
00134> *# [22.98, 96.598]
00135> *# [42.45, 96.66]
00136> *# [47.63, 96.5]
00137> *# [49.64, 96.424]
00138> *# [51.41, 96]
00139> *# [53.36, 95.79]
00140> *# [55.58, 95.887]
00141> *# [57.42, 96.242]
00142> *# [87.69, 96.5]

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00143> [119.62, 96.509]
00144> [140.1, 96.601]
00145> [179.39, 96.722]
00146> [200.6, 96.89]
00147> [228.39, 97]
00148> *%-----|-----|
00149> CONTINUOUS NASHYD ID=[7], NHYD=["VG-1C"], DT=[15]min, AREA=[211.8](ha),
DWF=[0](cms), CN/C=[70], IA=[3.9](mm),
00150> N=[3], TP=[4.7]hrs,
00151> Continuous simulation parameters:
00152> IaREcper=[6](hrs),
00153> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00154> InterEventTime=[12](hrs)
00155> Baseflow simulation parameters:
00156> BaseFlowOption=[1],
00157> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00158> VHydCond=[1](mm/hr), END=-1
00159> *%-----|-----|
00160> CONTINUOUS NASHYD ID=[8], NHYD=["VG-1E"], DT=[15]min, AREA=[13.4](ha),
DWF=[0](cms), CN/C=[73], IA=[4.0](mm),
00161> N=[3], TP=[0.64]hrs,
00162> Continuous simulation parameters:
00163> IaREcper=[6](hrs),
00164> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00165> InterEventTime=[12](hrs)
00166> Baseflow simulation parameters:
00167> BaseFlowOption=[1],
00168> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00169> VHydCond=[1](mm/hr), END=-1
00170> *%-----|-----|
00171> *%*****|*****|
00172> *%*****|*****|
00173> *%*****|*****|
00174> *%*****|*****|
00175> *%*****|*****|
00176> *%*****|*****|
00177> *%*****|*****|
00178> ADD HYD IDsum=[9], NHYD=["VG1-3"], IDs to add=[7 8]
00179> *%-----|-----|
00180> SAVE HYD ID=[9], # OF PCYCLES=[-1], ICASEsh=[1]
00181> HYD_COMMENT=["VG1-3"]
00182> *%-----|-----|
00183> ROUTE CHANNEL IDout=[10], NHYD=["VGLR-3"], IDin=[9],
RDT=[15](min),
00184> CHLGT=[630](m), CHSLOPE=[0.20](%),
00185> FPSLOPE=[0.20](%),
00186> SECNUM=[1.02], NSEG=[3]
00187> ( SEGROUGH, SEGDIST (m))=[0.08,80.53 -0.035,82.4 0.08,124.53]
00188> ( DISTANCE (m), ELEVATION (m))=[0 97]
00189> 0.61 97.01
00190> 3.8 97.03
00191> 17.49 97.18
00192> 19.18 97.17
00193> 26.62 97.15
00194> 46.29 97.12
00195> 73.97 97.17
00196> 76.3 97.04
00197> 77.53 97
00198> 80.53 96.86
00199> 81.38 96.5
00200> 82.4 96.07
00201> 87.91 96.07
00202> 89.65 96.5
00203> 90.75 96.78
00204> 91.88 96.91
00205> 96.2 97
00206> 99.01 97.1
00207> 119.73 97.14
00208> 124.53 97]
00209> *%-----|-----|
00210> *%*****|*****|
00211> *%*****|*****|
00212> *%*****|*****|
00213> *%*****|*****|
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00214> *%*****|*****|
00215> *%*****|*****|
00216> ADD HYD IDsum=[1], NHYD=["VG1-4"], IDs to add=[6 10]
00217> *%-----|-----|
00218> SAVE HYD ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00219> HYD_COMMENT=["VG1-4"]
00220> *%-----|-----|
00221> ROUTE CHANNEL IDout=[2], NHYD=["VGLR-4"], IDin=[1],
RDT=[15](min),
00222> CHLGT=[485](m), CHSLOPE=[0.20](%),
00223> FPSLOPE=[0.20](%),
00224> NSEG=[3]
00225> SECNUM=[1.03],
00226> ( SEGROUGH, SEGDIST (m))=[0.08,44.17 -0.035,53.58 0.08,243.3]
00227> ( DISTANCE (m), ELEVATION (m))=[-44.2, 95.7]
00228> 0, 95.5
00229> 19.69, 95.421
00230> 27.91, 95.5
00231> 31.73, 95.5
00232> 32.29, 95.325
00233> 32.71, 95.5
00234> 41.04, 95.5
00235> 44.17, 95.449
00236> 45.63, 95.389
00237> 48.22, 95
00238> 48.54, 94.882
00239> 49.35, 94.5
00240> 49.64, 94.311
00241> 50.46, 94.497
00242> 52.21, 94.993
00243> 53.58, 95.406
00244> 55.08, 95.333
00245> 55.94, 95.157
00246> 76.35, 95.275
00247> 131, 95.403
00248> 213.2, 95.5
00249> 243.3, 95.8]
00250> *%-----|-----|
00251> CONTINUOUS NASHYD ID=[3], NHYD=["VG-1F"], DT=[15]min, AREA=[117.7](ha),
DWF=[0](cms), CN/C=[86], IA=[2.6](mm),
00252> N=[3], TP=[2.9]hrs,
00253> Continuous simulation parameters:
00254> IaREcper=[6](hrs),
00255> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00256> InterEventTime=[12](hrs)
00257> Baseflow simulation parameters:
00258> BaseFlowOption=[1],
00259> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00260> VHydCond=[1](mm/hr), END=-1
00261> *%-----|-----|
00262> *%*****|*****|
00263> *%*****|*****|
00264> *%*****|*****|
00265> *%*****|*****|
00266> *%*****|*****|
00267> *%*****|*****|
00268> *%*****|*****|
00269> ADD HYD IDsum=[4], NHYD=["VG1"], IDs to add=[2 3]
00270> *%-----|-----|
00271> SAVE HYD ID=[4], # OF PCYCLES=[-1], ICASEsh=[1]
00272> HYD_COMMENT=["VG1"]
00273> *%-----|-----|
00274> ROUTE CHANNEL IDout=[5], NHYD=["VGR2-1"], IDin=[4],
RDT=[15](min),
00275> CHLGT=[755](m), CHSLOPE=[0.2](%),
00276> FPSLOPE=[0.2](%),
00277> NSEG=[3]
00278> SECNUM=[5.1],
00279> ( SEGROUGH, SEGDIST (m))=[0.08,98.046 -0.035,105.496 0.08,51]
00280> ( DISTANCE (m), ELEVATION (m))=[0, 96.11]
00281> 20, 94.4
00282> 26.106, 94.5
00283> 41.686, 94.465
00284> 63.506, 94.427
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00285> 84.666, 94.492
00286> 95.476, 94.363
00287> 97.736, 94
00288> 98.046, 93.967
00289> 100.336, 92.8193
00290> 101.536, 92.8193
00291> 102.736, 92.8193
00292> 105.496, 94.199
00293> 127.006, 94.345
00294> 142.116, 94.5
00295> 148.376, 94.568
00296> 478.406, 94.7
00297> 518.306, 95]
00298> *%-----|-----|
00299> CONTINUOUS NASHYD ID=[6], NHYD=["VG-2"], DT=[15]min, AREA=[63.1](ha),
00300> DWF=[0](cms), CN/C=[81], IA=[2.8](mm),
00301> N=[3], TP=[1.6]hrs,
00302> Continuous simulation parameters:
00303> IaRECper=[6](hrs),
00304> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00305> InterEventTime=[12](hrs)
00306> Baseflow simulation parameters:
00307> BaseFlowOption=[1],
00308> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00309> VHydCond=[1](mm/hr), END=-1
00310> *%-----|-----|
00311> ROUTE CHANNEL IDout=[7], NHYD=["PerN"], IDin=[6],
00312> RDT=[15](min),
00313> CHLGTH=[550](m), CHSLOPE=[0.2](%),
00314> FPSLOPE=[0.2](%),
00315> SECNUM=[1.1], NSEG=[3]
00316> ( SEGROUGH, SEGDIST (m))=[0.08,70 -0.035,72 0.08,77] NSEG ti
00317> ( DISTANCE (m), ELEVATION (m))=[0, 94.4]
00318> [70, 94.0]
00319> [71, 93.5]
00320> [72, 94.0]
00321> [77, 94.4]
00322> *%-----|-----|
00323> #####
00324> *# DUMMY SECTION
00325> #####
00326> CONTINUOUS STANDHYD ID=[8], NHYD=["VG-3"], DT=[15](min), AREA=[10.0](ha),
00327> XIMP=[0.9999999], TIMP=[0.9999999], DWF=[0](cms), LOSS=[1],
00328> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00329> DCAY=[4.14](/hr), F=[0](mm),
00330> Pervious surfaces: IAper=[2.5](mm), SLPP=[1.5](%),
00331> LGP=[35](m), MNP=[0.250], SCP=[0](min),
00332> Impervious surfaces: IAimp=[2.5](mm), SLPI=[0.3](%),
00333> LGI=[1000](m), MNI=[0.013], SCI=[0](min)
00334> Continuous simulation parameters:
00335> IaRECper=[6](hrs), IaRECimp=[6](hrs),
00336> InterEventTime=[12](hrs), END=-1
00337> *%-----|-----|
00338> CONTINUOUS NASHYD ID=[8], NHYD=["VG-3"], DT=[15]min, AREA=[40.6](ha),
00339> DWF=[0](cms), CN/C=[88], IA=[2.5](mm),
00340> N=[3], TP=[1.6]hrs,
00341> Continuous simulation parameters:
00342> IaRECper=[6](hrs),
00343> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00344> InterEventTime=[12](hrs)
00345> Baseflow simulation parameters:
00346> BaseFlowOption=[1],
00347> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00348> VHydCond=[1](mm/hr), END=-1
00349> *%-----|-----|
00350> CONTINUOUS STANDHYD ID=[9], NHYD=["VG-4"], DT=[15](min), AREA=[24.6](ha),
00351> XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00352> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00353> DCAY=[4.14](/hr), F=[0](mm),
00354> Pervious surfaces: IAper=[1.5](mm), SLPP=[1.5](%),
00355> LGP=[35](m), MNP=[0.250], SCP=[0](min),

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00356> Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),
00357> LGI=[1000](m), MNI=[0.013], SCI=[0](min)
00358> Continuous simulation parameters:
00359> IaRECper=[3](hrs), IaRECimp=[2](hrs),
00360> InterEventTime=[12](hrs), END=-1
00361> *%-----|-----|
00362> ADD HYD IDsum=[1], NHYD=["perthst"], IDs to add=[5 7 8 9]
00363> *%-----|-----|
00364> SAVE HYD ID=[1], # OF PCYCLES=[-1], ICASh=[1]
00365> HYD_COMMENT=["perthst"]
00366> *%-----|-----|
00367> CONTINUOUS NASHYD ID=[2], NHYD=["VG-5"], DT=[15]min, AREA=[34.4](ha),
00368> DWF=[0](cms), CN/C=[76], IA=[3.0](mm),
00369> N=[3], TP=[2.3]hrs,
00370> Continuous simulation parameters:
00371> IaRECper=[6](hrs),
00372> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00373> InterEventTime=[12](hrs)
00374> Baseflow simulation parameters:
00375> BaseFlowOption=[1],
00376> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00377> VHydCond=[1](mm/hr), END=-1
00378> *%-----|-----|
00379> ROUTE CHANNEL IDout=[3], NHYD=["PerS"], IDin=[2],
00380> RDT=[15](min),
00381> CHLGTH=[550](m), CHSLOPE=[0.2](%),
00382> FPSLOPE=[0.2](%),
00383> SECNUM=[1.1], NSEG=[3]
00384> ( SEGROUGH, SEGDIST (m))=[0.08,70 -0.035,72 0.08,77] NSEG ti
00385> ( DISTANCE (m), ELEVATION (m))=[0, 94.4]
00386> [70, 94.0]
00387> [71, 93.5]
00388> [72, 94.0]
00389> [77, 94.4]
00390> *%-----|-----|
00391> ADD HYD IDsum=[2], NHYD=["ar buck"], IDs to add=[1 3]
00392> *%-----|-----|
00393> SAVE HYD ID=[2], # OF PCYCLES=[-1], ICASh=[1]
00394> HYD_COMMENT=["ar buck"]
00395> *%-----|-----|
00396> ROUTE CHANNEL IDout=[9], NHYD=["VGR2-2"], IDin=[2],
00397> RDT=[15](min),
00398> CHLGTH=[520](m), CHSLOPE=[0.15](%),
00399> FPSLOPE=[0.15](%),
00400> SECNUM=[5.2], NSEG=[3]
00401> ( SEGROUGH, SEGDIST (m))=[0.08,65.27 -0.035,72.03 0.08,317.3]
00402> ( DISTANCE (m), ELEVATION (m))=
00403> [1.87 94
00404> 3.26 93.815
00405> 25.32 93.589
00406> 40.32 93.586
00407> 53.15 93.49
00408> 65.27 92.99
00409> 67.31 92.06
00410> 69.39 91.93
00411> 69.99 92.03
00412> 70.75 92.68
00413> 72.03 93
00414> 78.14 93
00415> 87.57 92.828
00416> 98.82 93
00417> 131.96 93.341
00418> 152.55 93.318
00419> 220.7 93.525
00420> 262.64 93.983
00421> 274.22 94
00422> 286.88 94
00423> 297.86 93.981
00424> 314.39 94.09
00425> 317.39, 95.09]
00426> *%-----|-----|

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00427> CONTINUOUS NASHYD ID=[1], NHYD=["VG-6"], DT=[15]min, AREA=[94.2](ha),
00428> DWF=[0](cms), CN/C=[77], IA=[2.9](mm),
00429> N=[3], TP=[3.2]hrs,
00430> Continuous simulation parameters:
00431> IaRECper=[6](hrs),
00432> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00433> InterEventTime=[12](hrs)
00434> Baseflow simulation parameters:
00435> BaseFlowOption=[1],
00436> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00437> VHydCond=[1](mm/hr), END=-1
00438> *-----|
00439> ROUTE CHANNEL IDout=[2], NHYD=["VG-6"], IDin=[1],
00440> RDT=[15](min),
00441> CHLGTH=[600](m), CHSLOPE=[0.18](%),
00442> FPSLOPE=[0.18](%),
00443> NSEQ=[3]
00444> SECNUM=[2.1],
00445> ( SEGROUGH, SEGDIST (m))=[0.08,700 -0.035,703 0.08,1000] NSE
00446> ( DISTANCE (m), ELEVATION (m))=[0, 94.6]
00447> [700, 94.5]
00448> [701.4, 94.1]
00449> [701.6, 94.1]
00450> [703, 94.5]
00451> [1000, 95.1]
00452> *-----|
00453> SAVE HYD ID=[2], # OF PCYCLES=[-1], ICASEsh=[1]
00454> HYD_COMMENT=["VG-6"]
00455> *-----|
00456> CONTINUOUS NASHYD ID=[3], NHYD=["VG-7"], DT=[15]min, AREA=[39.2](ha),
00457> DWF=[0](cms), CN/C=[80], IA=[3.5](mm),
00458> N=[3], TP=[2.9]hrs,
00459> Continuous simulation parameters:
00460> IaRECper=[6](hrs),
00461> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00462> InterEventTime=[12](hrs)
00463> Baseflow simulation parameters:
00464> BaseFlowOption=[1],
00465> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00466> VHydCond=[1](mm/hr), END=-1
00467> *-----|
00468> SAVE HYD ID=[3], # OF PCYCLES=[-1], ICASEsh=[1]
00469> HYD_COMMENT=["VG-7"]
00470> *-----|
00471> ROUTE CHANNEL IDout=[4], NHYD=["VG-7"], IDin=[3],
00472> RDT=[15](min),
00473> CHLGTH=[1480](m), CHSLOPE=[0.2](%),
00474> FPSLOPE=[0.2](%),
00475> SECNUM=[3.1], NSEQ=[3]
00476> ( SEGROUGH, SEGDIST (m))=[0.08,50 -0.035,52 0.08,102] NSEG t
00477> ( DISTANCE (m), ELEVATION (m))=[0,95.2]
00478> [50,95.0]
00479> [51,94.5]
00480> [52,95.0]
00481> [102,95.2]
00482> *-----|
00483> ADD HYD IDsum=[5], NHYD=["Moore"], IDs to add=[2 4](maximum ten)
00484> *-----|
00485> SAVE HYD ID=[5], # OF PCYCLES=[-1], ICASEsh=[1]
00486> HYD_COMMENT=["Moore"]
00487> *-----|
00488> *# DUMMY SECTION
00489> *****
00490> CONTINUOUS STANDHYD ID=[5], NHYD=["VG-8"], DT=[15](min), AREA=[10.0](ha),
00491> XIMP=[0.9999999], TIMP=[0.9999999], DWF=[0](cms), LOSS=[1],
00492> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00493> DCAY=[4.14](/hr), F=[0](mm),
00494> Pervious surfaces: IAPER=[2.6](mm), SLPP=[1.5](%),
00495> LGP=[35](m), MNP=[0.250], SCP=[0](min),
00496> Impervious surfaces: IAimp=[2.6](mm), SLPI=[0.3](%),
00497> LGI=[1000](m), MNI=[0.013], SCI=[0](min)

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00498> Continuous simulation parameters:
00499> IaRECper=[6](hrs), IaRECimp=[6](hrs),
00500> InterEventTime=[12](hrs), END=-1
00501> *-----|
00502> CONTINUOUS NASHYD ID=[5], NHYD=["VG-8"], DT=[15]min, AREA=[91.8](ha),
00503> DWF=[0](cms), CN/C=[88], IA=[2.6](mm),
00504> N=[3], TP=[2.1]hrs,
00505> Continuous simulation parameters:
00506> IaRECper=[6](hrs),
00507> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
00508> InterEventTime=[12](hrs)
00509> Baseflow simulation parameters:
00510> BaseFlowOption=[1],
00511> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00512> VHydCond=[1](mm/hr), END=-1
00513> *-----|
00514> CONTINUOUS STANDHYD ID=[6], NHYD=["VG-9"], DT=[15](min), AREA=[11.4](ha),
00515> XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00516> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00517> DCAY=[4.14](/hr), F=[0](mm),
00518> Pervious surfaces: IAPER=[1.5](mm), SLPP=[1.5](%),
00519> LGP=[50](m), MNP=[0.250], SCP=[0](min),
00520> Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),
00521> LGI=[530](m), MNI=[0.013], SCI=[0](min)
00522> Continuous simulation parameters:
00523> IaRECper=[3](hrs), IaRECimp=[2](hrs),
00524> InterEventTime=[12](hrs), END=-1
00525> *-----|
00526> ADD HYD IDsum=[1], NHYD=["Fortune"], IDs to add=[2 4 5 6 9]
00527> *-----|
00528> SAVE HYD ID=[1], # OF PCYCLES=[-1], ICASEsh=[1]
00529> HYD_COMMENT=["Fortune"]
00530> *-----|
00531> ROUTE CHANNEL IDout=[3], NHYD=["VGR2-3"], IDin=[1],
00532> RDT=[15](min),
00533> CHLGTH=[750](m), CHSLOPE=[0.2](%),
00534> FPSLOPE=[0.2](%),
00535> SECNUM=[5.3], NSEQ=[3]
00536> ( SEGROUGH, SEGDIST (m))=[0.05,3.22 -0.035,47.84 0.05,77.80]
00537> ( DISTANCE (m), ELEVATION (m))=[0, 93.5]
00538> [3.22, 93]
00539> [20.87, 92.5]
00540> [42.19, 92]
00541> [47.84, 92]
00542> [48.60, 92.5]
00543> [50.14, 93]
00544> [72.67, 93.526]
00545> [77.80, 93.5]
00546> *-----|
00547> CONTINUOUS STANDHYD ID=[2], NHYD=["VG-10"], DT=[15](min), AREA=[20.3](ha),
00548> XIMP=[0.4], TIMP=[0.5], DWF=[0](cms), LOSS=[1],
00549> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00550> DCAY=[4.14](/hr), F=[0](mm),
00551> Pervious surfaces: IAPER=[1.5](mm), SLPP=[1.5](%),
00552> LGP=[50](m), MNP=[0.250], SCP=[0](min),
00553> Impervious surfaces: IAimp=[0.8](mm), SLPI=[0.3](%),
00554> LGI=[560](m), MNI=[0.013], SCI=[0](min)
00555> Continuous simulation parameters:
00556> IaRECper=[3](hrs), IaRECimp=[2](hrs),
00557> InterEventTime=[12](hrs), END=-1
00558> *-----|
00559> ADD HYD IDsum=[9], NHYD=["JockVG"], IDs to add=[2 3]
00560> *-----|
00561> SAVE HYD ID=[9], # OF PCYCLES=[-1], ICASEsh=[1]
00562> HYD_COMMENT=["Flow from Van Gaal Drain at Jock River"]
00563> *-----|
00564> *****
00565> *# DUMMY SECTION
00566> *****
00567> CONTINUOUS STANDHYD ID=[1], NHYD=["JR-2"], DT=[15](min), AREA=[10.0](ha),
00568> XIMP=[0.9999999], TIMP=[0.9999999], DWF=[0](cms), LOSS=[1],

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00569> Horton: Fo=[76.20](mm/hr), Fc=[13.20](mm/hr),
00570>          DCAY=[4.14](/hr), F=[0](mm),
00571> Pervious surfaces: IAper=[2.5](mm), SLPP=[1.5](%),
00572>                  LGP=[35](m), MNP=[0.250], SCP=[0](min),
00573> Impervious surfaces: IAimp=[2.5](mm), SLPI=[0.3](%),
00574>                  LGI=[1000](m), MNI=[0.013], SCI=[0](min)
00575> Continuous simulation parameters:
00576> IaRECper=[6](hrs), IaRECimp=[6](hrs),
00577> InterEventTime=[12](hrs), END=-1
00578> *%-----|-----|
00579> CONTINUOUS NASHYD ID=[1], NHYD=["JR-2"], DT=[15]min, AREA=[4.96](ha),
00580> DWF=[0](cms), CN/C=[88], IA=[2.5](mm),
00581> N=[3], TP=[0.8]hrs,
00582> Continuous simulation parameters:
00583> IaRECper=[6](hrs),
00584> SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03](/mm),
00585> InterEventTime=[12](hrs)
00586> Baseflow simulation parameters:
00587> BaseFlowOption=[1],
00588> InitGWResVol=[100](mm), GWResK=[0.9](mm/day/mm)
00589> VHydCond=[1](mm/hr), END=-1
00590> *%-----|-----|
00591> START TZERO=[1968.0501], METOUT=[2], NSTORM=[0], NRUN=[68]
00592> START TZERO=[1969.0501], METOUT=[2], NSTORM=[0], NRUN=[69]
00593> START TZERO=[1970.0501], METOUT=[2], NSTORM=[0], NRUN=[70]
00594> START TZERO=[1971.0501], METOUT=[2], NSTORM=[0], NRUN=[71]
00595> START TZERO=[1972.0501], METOUT=[2], NSTORM=[0], NRUN=[72]
00596> START TZERO=[1973.0501], METOUT=[2], NSTORM=[0], NRUN=[73]
00597> START TZERO=[1974.0501], METOUT=[2], NSTORM=[0], NRUN=[74]
00598> START TZERO=[1975.0501], METOUT=[2], NSTORM=[0], NRUN=[75]
00599> START TZERO=[1976.0501], METOUT=[2], NSTORM=[0], NRUN=[76]
00600> START TZERO=[1977.0501], METOUT=[2], NSTORM=[0], NRUN=[77]
00601> START TZERO=[1978.0501], METOUT=[2], NSTORM=[0], NRUN=[78]
00602> START TZERO=[1979.0501], METOUT=[2], NSTORM=[0], NRUN=[79]
00603> START TZERO=[1980.0501], METOUT=[2], NSTORM=[0], NRUN=[80]
00604> START TZERO=[1981.0501], METOUT=[2], NSTORM=[0], NRUN=[81]
00605> START TZERO=[1982.0501], METOUT=[2], NSTORM=[0], NRUN=[82]
00606> START TZERO=[1983.0501], METOUT=[2], NSTORM=[0], NRUN=[83]
00607> START TZERO=[1984.0501], METOUT=[2], NSTORM=[0], NRUN=[84]
00608> START TZERO=[1985.0501], METOUT=[2], NSTORM=[0], NRUN=[85]
00609> START TZERO=[1986.0501], METOUT=[2], NSTORM=[0], NRUN=[86]
00610> START TZERO=[1987.0501], METOUT=[2], NSTORM=[0], NRUN=[87]
00611> START TZERO=[1988.0501], METOUT=[2], NSTORM=[0], NRUN=[88]
00612> START TZERO=[1989.0501], METOUT=[2], NSTORM=[0], NRUN=[89]
00613> START TZERO=[1990.0501], METOUT=[2], NSTORM=[0], NRUN=[90]
00614> START TZERO=[1991.0501], METOUT=[2], NSTORM=[0], NRUN=[91]
00615> START TZERO=[1992.0501], METOUT=[2], NSTORM=[0], NRUN=[92]
00616> START TZERO=[1993.0501], METOUT=[2], NSTORM=[0], NRUN=[93]
00617> START TZERO=[1994.0501], METOUT=[2], NSTORM=[0], NRUN=[94]
00618> START TZERO=[1995.0501], METOUT=[2], NSTORM=[0], NRUN=[95]
00619> START TZERO=[1996.0501], METOUT=[2], NSTORM=[0], NRUN=[96]
00620> START TZERO=[1997.0501], METOUT=[2], NSTORM=[0], NRUN=[97]
00621> START TZERO=[1998.0501], METOUT=[2], NSTORM=[0], NRUN=[98]
00622> START TZERO=[1999.0501], METOUT=[2], NSTORM=[0], NRUN=[99]
00623> START TZERO=[2000.0501], METOUT=[2], NSTORM=[0], NRUN=[200]
00624> START TZERO=[2001.0501], METOUT=[2], NSTORM=[0], NRUN=[201]
00625> START TZERO=[2002.0501], METOUT=[2], NSTORM=[0], NRUN=[202]
00626> START TZERO=[2003.0501], METOUT=[2], NSTORM=[0], NRUN=[203]
00627> *%-----|-----|
00628> FINISH
00629>
00630>
00631>
00632>
00633>
```