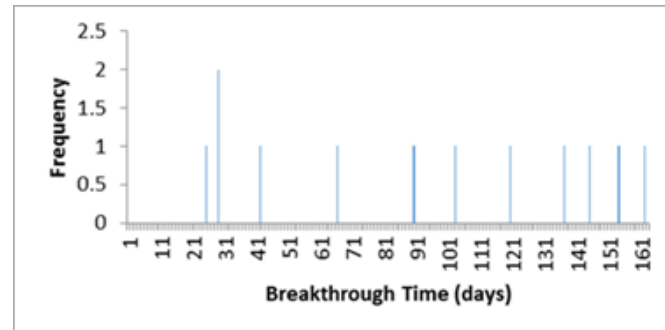
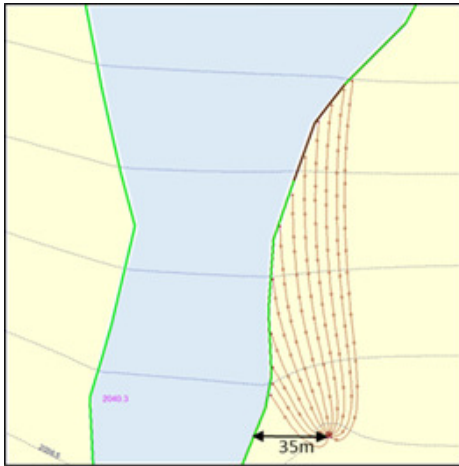


35m66km well analysis

Thursday, September 22, 2016 3:24 PM



MS Excel Spreadsheet
35m66km_s1_N-lo_K-hi_Q-hi_breakthru.xlsx

[35m66km_s1_N-lo_K-hi_Q-hi_breakthru](#)

GFLOW project file
35m66km_s1_N-lo_K-hi_Q-hi.gfl

[35m66km_s1_N-lo_K-hi_Q-hi](#)

The figure created in Powerpoint below (see slide 11).

[Storyboard Chapter 9 potential GW effects2](#)

GFLOW capture zone and solute breakthrough histogram for a mid Animas River community well. GFLOW analysis of mid Animas River community well (35m-66km), high pumping ($Q_w = 2,616.5 \text{ m}^3/\text{d}$) and low porosity ($n = 0.2$) (a) particle tracking with 12 forward pathlines; (b) time of arrival breakthrough (days) are reported in a histogram, with a particle arriving in 25 days. Breakthrough time with same pumping but higher porosity ($n = 0.35$) has a particle arriving in 44 days. Suggested peak river concentration is diluted to about 17% ($2/12$). Flushing of the aquifer in about 160 days. Full sensitivity analysis on area recharge, hydraulic conductivity of aquifer material, and pumping rate of well is described in Appendix D. Note that advective transport is steady (time invariant pumping and hydrology) and does not account for dispersion, sorption, or decay of solute.

35m66km_s1_N-lo_K-hi_Q-hi.dat

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yes
echo echo.log
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 porosity 2.0000000E-01
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 quit
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1.196326E+04 1.751356E+04 IN_000088_3800
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1.215160E+04 1.746526E+04 IN_000088_4000
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1.236892E+04 1.740731E+04 IN_000088_4100
1.242929E+04 1.738679E+04 IN_000088_4125
1.248966E+04 1.736626E+04 IN_000088_4150
1.261039E+04 1.732521E+04 IN_000088_4200
1.276252E+04 1.728657E+04 IN_000088_4250
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1.329604E+04 1.713276E+04 IN_000088_4500
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1.365353E+04 1.754977E+04 IN_000088_5300
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 8.097480E+03 6.764330E+03 IN_000097_7001
 transmissivity 6.00000E+01 1.75520E+03 -9.99900E+03 0.0000000E+00 -9.99900E+03 IN_000099_
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 1.210560E+04 1.569264E+04 IN_000099_1901
 1.198830E+04 1.569769E+04 IN_000099_2001
 1.179774E+04 1.570374E+04 IN_000099_2101
 1.154365E+04 1.570676E+04 IN_000099_2201
 1.126537E+04 1.571281E+04 IN_000099_2301
 1.104455E+04 1.571281E+04 IN_000099_2401
 1.089260E+04 1.571355E+04 IN_000099_2501
 1.077232E+04 1.572189E+04 IN_000099_2601
 1.063015E+04 1.572340E+04 IN_000099_2701
 1.048798E+04 1.572491E+04 IN_000099_2801
 1.031557E+04 1.572945E+04 IN_000099_2901
 1.014315E+04 1.573399E+04 IN_000099_3001
 9.985860E+03 1.573550E+04 IN_000099_3101

9.828570E+03 1.573701E+04 IN_000099_3201
 9.687915E+03 1.573550E+04 IN_000099_3301
 9.547260E+03 1.573399E+04 IN_000099_3401
 9.426265E+03 1.573550E+04 IN_000099_3501
 9.305270E+03 1.573701E+04 IN_000099_3601
 9.184275E+03 1.574155E+04 IN_000099_3701
 9.063280E+03 1.574609E+04 IN_000099_3801
 8.957310E+03 1.565460E+04 IN_000099_3901
 8.877480E+03 1.554816E+04 IN_000099_4001
 8.784350E+03 1.557477E+04 IN_000099_4101
 8.611390E+03 1.570782E+04 IN_000099_4201
 8.445070E+03 1.582091E+04 IN_000099_4301
 8.318680E+03 1.588079E+04 IN_000099_4401
 8.225540E+03 1.596727E+04 IN_000099_4501
 8.077180E+03 1.594937E+04 IN_000099_4601
 7.952790E+03 1.588079E+04 IN_000099_4701
 7.912870E+03 1.571447E+04 IN_000099_4801
 7.939480E+03 1.558808E+04 IN_000099_4901
 8.072530E+03 1.547498E+04 IN_000099_5001
 8.245500E+03 1.528206E+04 IN_000099_5101
 8.325330E+03 1.505588E+04 IN_000099_5201
 8.298720E+03 1.490952E+04 IN_000099_5301
 8.185630E+03 1.473656E+04 IN_000099_5401
 8.025970E+03 1.459020E+04 IN_000099_5501
 7.892920E+03 1.447711E+04 IN_000099_5601
 7.912870E+03 1.425093E+04 IN_000099_5701
 7.972750E+03 1.397152E+04 IN_000099_5801
 7.886260E+03 1.369877E+04 IN_000099_5901
 7.819740E+03 1.340606E+04 IN_000099_6001
 7.779820E+03 1.310670E+04 IN_000099_6101
 7.739910E+03 1.287386E+04 IN_000099_6201
 7.699990E+03 1.263437E+04 IN_000099_6301
 7.734310E+03 1.255343E+04 IN_000099_6401
 7.856280E+03 1.254581E+04 IN_000099_6501
 8.020260E+03 1.255546E+04 IN_000099_6601
 8.189060E+03 1.256993E+04 IN_000099_6701
 8.309630E+03 1.255546E+04 IN_000099_6801
 8.478430E+03 1.246382E+04 IN_000099_6901
 8.550780E+03 1.234808E+04 IN_000099_7001
 8.627940E+03 1.221786E+04 IN_000099_7101
 8.705110E+03 1.214551E+04 IN_000099_7201
 8.840150E+03 1.202012E+04 IN_000099_7401
 8.984840E+03 1.187061E+04 IN_000099_7501
 9.076360E+03 1.177414E+04 IN_000099_7601
 9.157800E+03 1.171084E+04 IN_000099_7701
 9.349810E+03 1.189594E+04 IN_000099_7801
 quit
 inhomogeneity
 slurry inside 0.0000000E+00 1.0000000E+00 2.0000000E-01 0.0000000E+00 HB_000065_0000
 1.433085E+04 3.267254E+04 HB_000065_0001
 1.434212E+04 3.284154E+04 HB_000065_0026
 1.435339E+04 3.301054E+04 HB_000065_0051
 1.418521E+04 3.334578E+04 HB_000065_0101
 1.401540E+04 3.366398E+04 HB_000065_0151
 1.365487E+04 3.397944E+04 HB_000065_0201
 1.306902E+04 3.415971E+04 HB_000065_0301
 1.243810E+04 3.438503E+04 HB_000065_0401
 1.167198E+04 3.488076E+04 HB_000065_0501
 1.135652E+04 3.510608E+04 HB_000065_0601
 1.117626E+04 3.537648E+04 HB_000065_0701
 1.113120E+04 3.587220E+04 HB_000065_0801

1.108613E+04 3.632285E+04 HB_000065_0901
1.054534E+04 3.681858E+04 HB_000065_1001
1.009469E+04 3.717910E+04 HB_000065_1101
9.508840E+03 3.776495E+04 HB_000065_1201
9.103250E+03 3.799028E+04 HB_000065_1301
8.742720E+03 3.821561E+04 HB_000065_1401
8.201930E+03 3.817054E+04 HB_000065_1501
7.390750E+03 3.803535E+04 HB_000065_1601
6.714770E+03 3.785508E+04 HB_000065_1701
6.128920E+03 3.758469E+04 HB_000065_1801
5.678260E+03 3.717910E+04 HB_000065_1901
5.407870E+03 3.699884E+04 HB_000065_2001
5.182540E+03 3.618766E+04 HB_000065_2101
5.272670E+03 3.573700E+04 HB_000065_2201
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6.669710E+03 3.479063E+04 HB_000065_2401
7.525950E+03 3.438503E+04 HB_000065_2501
8.201930E+03 3.424984E+04 HB_000065_2601
8.787790E+03 3.415971E+04 HB_000065_2701
9.103250E+03 3.384425E+04 HB_000065_2801
9.238440E+03 3.325840E+04 HB_000065_2901
9.283510E+03 3.253735E+04 HB_000065_3001
9.238440E+03 3.195149E+04 HB_000065_3101
8.922980E+03 3.145577E+04 HB_000065_3201
8.607520E+03 3.086992E+04 HB_000065_3301
8.292070E+03 3.050940E+04 HB_000065_3401
8.382200E+03 3.014887E+04 HB_000065_3501
8.652590E+03 2.965315E+04 HB_000065_3601
8.968050E+03 2.920249E+04 HB_000065_3701
9.148310E+03 2.893210E+04 HB_000065_3801
8.922980E+03 2.866171E+04 HB_000065_3901
8.787790E+03 2.825612E+04 HB_000065_4001
8.607520E+03 2.794066E+04 HB_000065_4101
8.292070E+03 2.776040E+04 HB_000065_4201
8.111800E+03 2.703935E+04 HB_000065_4301
8.111800E+03 2.663376E+04 HB_000065_4401
8.201930E+03 2.627323E+04 HB_000065_4501
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8.562460E+03 2.564231E+04 HB_000065_4701
8.517390E+03 2.514659E+04 HB_000065_4801
8.652590E+03 2.492126E+04 HB_000065_4901
8.877920E+03 2.456074E+04 HB_000065_5001
9.238440E+03 2.420022E+04 HB_000065_5101
9.508840E+03 2.383969E+04 HB_000065_5201
9.283510E+03 2.352423E+04 HB_000065_5301
8.922980E+03 2.257786E+04 HB_000065_5401
8.652590E+03 2.167654E+04 HB_000065_5501
8.697660E+03 2.136108E+04 HB_000065_5601
8.922980E+03 2.077523E+04 HB_000065_5701
9.013110E+03 2.032458E+04 HB_000065_5801
9.013110E+03 2.000912E+04 HB_000065_5901
9.283510E+03 1.955846E+04 HB_000065_6001
9.418700E+03 1.937820E+04 HB_000065_6101
9.328570E+03 1.883741E+04 HB_000065_6201
9.262790E+03 1.838578E+04 HB_000065_6301
9.171780E+03 1.792424E+04 HB_000065_6401
9.013110E+03 1.757558E+04 HB_000065_6501
8.645230E+03 1.694914E+04 HB_000065_6601
8.550970E+03 1.680775E+04 HB_000065_6626
8.456710E+03 1.666637E+04 HB_000065_6651
8.362450E+03 1.652498E+04 HB_000065_6676

8.268190E+03 1.638359E+04 HB_000065_6701
 8.073173E+03 1.634459E+04 HB_000065_6726
 7.878155E+03 1.630558E+04 HB_000065_6751
 7.683137E+03 1.626658E+04 HB_000065_6776
 7.488120E+03 1.622757E+04 HB_000065_6801
 7.260983E+03 1.626038E+04 HB_000065_6826
 7.033845E+03 1.629319E+04 HB_000065_6851
 6.806707E+03 1.632600E+04 HB_000065_6876
 6.579570E+03 1.635881E+04 HB_000065_6901
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 4.211800E+03 1.577903E+04 HB_000065_7101
 3.154590E+03 1.559269E+04 HB_000065_7201
 2.929260E+03 1.536736E+04 HB_000065_7301
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 6.219050E+03 1.131146E+04 HB_000065_8601
 6.219050E+03 1.086081E+04 HB_000065_8701
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 5.543070E+03 1.018482E+04 HB_000065_8901
 5.362800E+03 9.959500E+03 HB_000065_9001
 5.092410E+03 9.824300E+03 HB_000065_9101
 4.686820E+03 9.914430E+03 HB_000065_9201
 4.281230E+03 1.027495E+04 HB_000065_9301
 4.146030E+03 1.072561E+04 HB_000065_9401
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 2.884200E+03 1.149172E+04 HB_000065_9601
 2.658870E+03 1.158186E+04 HB_000065_9701
 2.343410E+03 1.149172E+04 HB_000065_9801
 2.208210E+03 1.117627E+04 HB_000065_9901
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 1.712490E+03 9.103250E+03 HB_000065_10101
 1.306900E+03 8.697660E+03 HB_000065_10201
 9.463800E+02 8.337130E+03 HB_000065_10301
 1.036510E+03 7.976610E+03 HB_000065_10401
 1.577300E+03 7.616090E+03 HB_000065_10501
 2.073020E+03 7.255560E+03 HB_000065_10601
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 1.577300E+03 6.759840E+03 HB_000065_10801
 1.351970E+03 6.624640E+03 HB_000065_10901
 9.013100E+02 6.399320E+03 HB_000065_11001
 5.407900E+02 6.219050E+03 HB_000065_11101
 2.253300E+02 5.813460E+03 HB_000065_11201
 1.802600E+02 5.137480E+03 HB_000065_11301
 1.352000E+02 4.416430E+03 HB_000065_11401
 9.013000E+01 3.650320E+03 HB_000065_11501
 0.000000E+00 3.019400E+03 HB_000065_11601
 1.802600E+02 2.298350E+03 HB_000065_11701
 3.154600E+02 1.802630E+03 HB_000065_11801
 6.309200E+02 1.487170E+03 HB_000065_11901
 1.126640E+03 1.351970E+03 HB_000065_12001

1.667430E+03 1.487170E+03 HB_000065_12101
2.163150E+03 1.757560E+03 HB_000065_12201
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2.929260E+03 1.442100E+03 HB_000065_12401
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5.047340E+03 0.000000E+00 HB_000065_12801
5.993720E+03 1.802700E+02 HB_000065_12901
6.489440E+03 6.309200E+02 HB_000065_13001
6.940100E+03 1.216770E+03 HB_000065_13101
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1.158185E+04 2.478610E+03 HB_000065_13801
1.225784E+04 2.703940E+03 HB_000065_13901
1.261836E+04 3.064460E+03 HB_000065_14001
1.261836E+04 3.515120E+03 HB_000065_14101
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2.379462E+04 2.974328E+04 HB_000065_19001
2.379462E+04 3.086992E+04 HB_000065_19101
2.406501E+04 3.141071E+04 HB_000065_19201
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2.091042E+04 3.271761E+04 HB_000065_20401
2.077523E+04 3.267254E+04 HB_000065_20501
2.005418E+04 3.298800E+04 HB_000065_20601
1.942326E+04 3.303307E+04 HB_000065_20701
1.910780E+04 3.298800E+04 HB_000065_20801
1.897261E+04 3.330346E+04 HB_000065_20901
1.865715E+04 3.348372E+04 HB_000065_21001
1.789103E+04 3.352879E+04 HB_000065_21101
1.721505E+04 3.348372E+04 HB_000065_21201
1.653906E+04 3.316826E+04 HB_000065_21301
1.563775E+04 3.307813E+04 HB_000065_21401
1.532230E+04 3.298800E+04 HB_000065_21451
1.516457E+04 3.294294E+04 HB_000065_21476
1.460914E+04 3.258271E+04 HB_000065_21501

quit

well

discharge

11.928380E+03 1.800339E+04 2.61650E+03 3.00000E-01 WL_005418

quit

linesink

head

resistance 0

width 0.000000E+00 1

depth 0.000000E+00

1.190510E+04 1.856928E+04 1.185681E+04 1.847657E+04 2.04063E+03 LS_000100_0101
1.185681E+04 1.847657E+04 1.183336E+04 1.843750E+04 2.04010E+03 LS_000100_0201
1.183336E+04 1.843750E+04 1.181173E+04 1.839243E+04 2.03976E+03 LS_000100_0301
1.181173E+04 1.839243E+04 1.177604E+04 1.832654E+04 2.03931E+03 LS_000100_0401
1.177604E+04 1.832654E+04 1.176563E+04 1.829161E+04 2.03892E+03 LS_000100_0501
1.176563E+04 1.829161E+04 1.177084E+04 1.826426E+04 2.03869E+03 LS_000100_0551
1.177084E+04 1.826426E+04 1.177605E+04 1.823690E+04 2.03849E+03 LS_000100_0601
1.177605E+04 1.823690E+04 1.178256E+04 1.820825E+04 2.03829E+03 LS_000100_0651
1.178256E+04 1.820825E+04 1.178907E+04 1.817959E+04 2.03808E+03 LS_000100_0701
1.178907E+04 1.817959E+04 1.179378E+04 1.816163E+04 2.03791E+03 LS_000100_0751
1.179378E+04 1.816163E+04 1.179848E+04 1.814367E+04 2.03778E+03 LS_000100_0801
1.179848E+04 1.814367E+04 1.179065E+04 1.811068E+04 2.03759E+03 LS_000100_0851
1.179065E+04 1.811068E+04 1.178282E+04 1.807768E+04 2.03735E+03 LS_000100_0901
1.178282E+04 1.807768E+04 1.177553E+04 1.805309E+04 2.03714E+03 LS_000100_0951
1.177553E+04 1.805309E+04 1.176823E+04 1.802849E+04 2.03696E+03 LS_000100_1001

1.176823E+04 1.802849E+04 1.177052E+04 1.797927E+04 2.03669E+03 LS_000100_1051
 1.177052E+04 1.797927E+04 1.174815E+04 1.792446E+04 2.03631E+03 LS_000100_1101
 head
 resistance 0
 width 0.000000E+00 1
 depth 0.000000E+00
 1.174814E+04 1.792373E+04 1.174814E+04 1.787363E+04 2.03591E+03 LS_000101_0101
 1.174814E+04 1.787363E+04 1.175100E+04 1.782640E+04 2.03554E+03 LS_000101_0201
 1.175100E+04 1.782640E+04 1.175291E+04 1.778489E+04 2.03520E+03 LS_000101_0301
 1.175291E+04 1.778489E+04 1.174957E+04 1.774290E+04 2.03488E+03 LS_000101_0401
 1.174957E+04 1.774290E+04 1.174241E+04 1.770187E+04 2.03456E+03 LS_000101_0501
 1.174241E+04 1.770187E+04 1.173573E+04 1.766513E+04 2.03426E+03 LS_000101_0601
 1.173573E+04 1.766513E+04 1.173144E+04 1.763650E+04 2.03401E+03 LS_000101_0701
 quit
 linesink
 * stream parameter is End Inflow (L³/day)
 stream 1.350510E+06
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.431276E+04 3.238183E+04 2287.292527 LS_000023_0108
 1.429911E+04 3.235478E+04 2286.965302 LS_000023_0111
 1.429305E+04 3.233837E+04 2286.725801 LS_000023_0114
 1.428699E+04 3.232196E+04 2286.127046 LS_000023_0126
 1.426274E+04 3.225634E+04 2284.690035 LS_000023_0151
 1.421425E+04 3.212509E+04 2281.816014 LS_000023_0201
 1.411727E+04 3.186258E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.412351E+04 3.186318E+04 2276.849714 LS_000024_0101
 1.421894E+04 3.130184E+04 2270.749714 LS_000024_0201
 1.434244E+04 3.074611E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.434673E+04 3.074070E+04 2264.175989 LS_000025_0101
 1.443248E+04 3.019005E+04 2258.075989 LS_000025_0201
 1.450019E+04 2.978835E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.450019E+04 2.978383E+04 2252.301755 LS_000026_0101
 1.448213E+04 2.930991E+04 2246.201755 LS_000026_0201
 1.444602E+04 2.888113E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00

1.444151E+04 2.888113E+04 2240.019697 LS_000027_0101
 1.438735E+04 2.846137E+04 2233.919697 LS_000027_0201
 1.431513E+04 2.810480E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.430828E+04 2.809878E+04 2227.824965 LS_000028_0101
 1.415865E+04 2.762650E+04 2221.724965 LS_000028_0201
 1.399031E+04 2.723372E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.399049E+04 2.723269E+04 2215.633080 LS_000029_0101
 1.376586E+04 2.647152E+04 2209.583080 LS_000029_0201
 1.361623E+04 2.581220E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.361623E+04 2.581220E+04 2203.947061 LS_000030_0101
 1.359285E+04 2.539136E+04 2197.847061 LS_000030_0201
 1.364429E+04 2.491441E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.364537E+04 2.491444E+04 2191.236183 LS_000031_0101
 1.351991E+04 2.469866E+04 2185.136183 LS_000031_0201
 1.338944E+04 2.454310E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.338944E+04 2.453808E+04 2179.376727 LS_000032_0101
 1.332420E+04 2.413161E+04 2173.276727 LS_000032_0201
 1.327904E+04 2.371510E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.327695E+04 2.371309E+04 2164.049865 LS_000033_0101
 1.315213E+04 2.350029E+04 2153.349865 LS_000033_0201
 1.302936E+04 2.336524E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00

width 2.00000E+01 1
depth 1.00000E+00
1.302936E+04 2.336115E+04 2147.890967 LS_000034_0101
1.297616E+04 2.298670E+04 2146.390967 LS_000034_0201
1.289841E+04 2.275344E+04
* stream parameter is End Inflow (L³/day)
stream 0.000000E+00
overlandflow 0.000000E+00
resistance 0.000000E+00
width 2.00000E+01 1
depth 1.00000E+00
1.290250E+04 2.275139E+04 2142.423665 LS_000035_0101
1.285749E+04 2.262044E+04 2136.323665 LS_000035_0201
1.280429E+04 2.252222E+04
* stream parameter is End Inflow (L³/day)
stream 0.000000E+00
overlandflow 0.000000E+00
resistance 0.000000E+00
width 2.00000E+01 1
depth 1.00000E+00
1.280545E+04 2.250287E+04 2130.704694 LS_000036_0026
1.263616E+04 2.254111E+04 2120.793632 LS_000036_0051
1.263616E+04 2.212056E+04 2111.040348 LS_000036_0076
1.257007E+04 2.197036E+04 2105.050472 LS_000036_0101
1.267822E+04 2.180815E+04 2097.806764 LS_000036_0126
1.288849E+04 2.169400E+04 2089.886154 LS_000036_0151
1.307473E+04 2.154981E+04 2082.026364 LS_000036_0176
1.315283E+04 2.132752E+04 2075.347913 LS_000036_0201
1.313682E+04 2.116358E+04
* stream parameter is End Inflow (L³/day)
stream 0.000000E+00
overlandflow 0.000000E+00
resistance 0.000000E+00
width 2.00000E+01 1
depth 1.00000E+00
1.313391E+04 2.116574E+04 2072.213070 LS_000037_0026
1.317852E+04 2.106064E+04 2071.439209 LS_000037_0051
1.322312E+04 2.095553E+04 2070.691576 LS_000037_0064
1.322746E+04 2.084918E+04 2069.970173 LS_000037_0076
1.323180E+04 2.074283E+04 2069.182788 LS_000037_0088
1.310708E+04 2.072557E+04 2068.263156 LS_000037_0101
1.296267E+04 2.070810E+04 2067.151686 LS_000037_0126
1.279772E+04 2.062997E+04 2065.381891 LS_000037_0151
1.249386E+04 2.047804E+04 2063.493785 LS_000037_0164
1.250688E+04 2.026100E+04 2062.216515 LS_000037_0176
1.239790E+04 2.014457E+04 2061.357059 LS_000037_0188
1.233642E+04 2.007328E+04 2060.719020 LS_000037_0201
1.227494E+04 2.000199E+04
* stream parameter is End Inflow (L³/day)
stream 0.000000E+00
overlandflow 0.000000E+00
resistance 0.000000E+00
width 2.00000E+01 1
depth 1.00000E+00
1.227032E+04 2.000092E+04 2058.708736 LS_000038_0051
1.221491E+04 1.987854E+04 2055.326208 LS_000038_0101
1.215949E+04 1.975616E+04 2052.301208 LS_000038_0151
1.212947E+04 1.965456E+04 2049.633736 LS_000038_0201
1.209945E+04 1.955296E+04
* stream parameter is End Inflow (L³/day)
stream 0.000000E+00

overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.209992E+04 1.955177E+04 2047.646079 LS_000039_0051
 1.206588E+04 1.935908E+04 2046.244363 LS_000039_0101
 1.209966E+04 1.913787E+04 2045.257805 LS_000039_0114
 1.213136E+04 1.907384E+04 2044.826502 LS_000039_0126
 1.212906E+04 1.901627E+04 2044.458644 LS_000039_0138
 1.212242E+04 1.896423E+04 2044.060441 LS_000039_0151
 1.209879E+04 1.890186E+04 2043.531415 LS_000039_0176
 1.203462E+04 1.883648E+04 2042.712637 LS_000039_0201
 1.192429E+04 1.872990E+04

* stream parameter is End Inflow (L³/day)

stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.192528E+04 1.872990E+04 2042.013888 LS_000040_0026
 1.191288E+04 1.867659E+04 2041.641663 LS_000040_0051
 1.190047E+04 1.862327E+04 2041.278290 LS_000040_0064
 1.190423E+04 1.857127E+04 2040.933913 LS_000040_0076
 1.192911E+04 1.852888E+04 2040.389120 LS_000040_0101
 1.199849E+04 1.844213E+04 2039.804263 LS_000040_0114
 1.200601E+04 1.838166E+04 2039.430666 LS_000040_0126
 1.200938E+04 1.833283E+04 2039.055254 LS_000040_0138
 1.197943E+04 1.827915E+04 2038.653364 LS_000040_0144
 1.193915E+04 1.823919E+04 2038.403970 LS_000040_0148
 1.192896E+04 1.822607E+04 2038.290967 LS_000040_0151
 1.191876E+04 1.821295E+04 2038.093953 LS_000040_0158
 1.190503E+04 1.817397E+04 2037.812928 LS_000040_0164
 1.189130E+04 1.813499E+04 2037.510296 LS_000040_0170
 1.188775E+04 1.808744E+04 2037.197503 LS_000040_0176
 1.188977E+04 1.804317E+04 2036.973191 LS_000040_0182
 1.188574E+04 1.802189E+04 2036.850371 LS_000040_0185
 1.188057E+04 1.800838E+04 2036.702972 LS_000040_0188
 1.186964E+04 1.798164E+04 2036.524134 LS_000040_0191
 1.185757E+04 1.796123E+04 2036.354927 LS_000040_0194
 1.184779E+04 1.793708E+04 2036.183170 LS_000040_0201
 1.183778E+04 1.791476E+04

* stream parameter is End Inflow (L³/day)

stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.183778E+04 1.791379E+04 2036.011343 LS_000041_0008
 1.183608E+04 1.788948E+04 2035.834029 LS_000041_0014
 1.183438E+04 1.786518E+04 2035.656715 LS_000041_0020
 1.183267E+04 1.784087E+04 2035.479401 LS_000041_0026
 1.183097E+04 1.781656E+04 2035.151896 LS_000041_0038
 1.181408E+04 1.775313E+04 2034.674201 LS_000041_0051
 1.179718E+04 1.768969E+04 2034.279923 LS_000041_0058
 1.176851E+04 1.765802E+04 2033.968497 LS_000041_0064
 1.173174E+04 1.763597E+04 2033.728582 LS_000041_0067
 1.172146E+04 1.761533E+04 2033.576152 LS_000041_0070
 1.170850E+04 1.760166E+04 2033.394101 LS_000041_0073
 1.168969E+04 1.757676E+04 2033.224105 LS_000041_0076
 1.168250E+04 1.756301E+04 2033.056133 LS_000041_0082
 1.167055E+04 1.753479E+04 2032.833098 LS_000041_0088

1.165859E+04 1.750656E+04 2032.428441 LS_000041_0101
 1.159838E+04 1.745303E+04 2031.662052 LS_000041_0151
 1.151943E+04 1.734966E+04 2030.594401 LS_000041_0201
 1.149663E+04 1.718789E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.150199E+04 1.718574E+04 2028.971800 LS_000042_0051
 1.159416E+04 1.699711E+04 2027.009772 LS_000042_0101
 1.157808E+04 1.684278E+04 2025.559348 LS_000042_0151
 1.149127E+04 1.676775E+04 2024.421376 LS_000042_0201
 1.143577E+04 1.668817E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.143189E+04 1.668528E+04 2022.929552 LS_000043_0051
 1.137105E+04 1.624631E+04 2021.373143 LS_000043_0101
 1.126506E+04 1.600061E+04 2020.456693 LS_000043_0126
 1.112775E+04 1.593798E+04 2019.795717 LS_000043_0151
 1.099044E+04 1.587534E+04 2019.048922 LS_000043_0176
 1.089288E+04 1.571217E+04 2018.216307 LS_000043_0201
 1.079532E+04 1.554900E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.079445E+04 1.555223E+04 2016.666861 LS_000044_0051
 1.068693E+04 1.526831E+04 2014.611881 LS_000044_0101
 1.045567E+04 1.518159E+04 2013.303643 LS_000044_0151
 1.038820E+04 1.510307E+04 2012.308623 LS_000044_0201
 1.025710E+04 1.500610E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.00000E+01 1
 depth 1.00000E+00
 1.025363E+04 1.500675E+04 2011.300334 LS_000045_0026
 1.007413E+04 1.490000E+04 2010.579971 LS_000045_0051
 9.969160E+03 1.476937E+04 2009.895915 LS_000045_0076
 1.005314E+04 1.459908E+04 2009.303801 LS_000045_0101
 1.001815E+04 1.448478E+04 2008.793497 LS_000045_0126
 9.885190E+03 1.442180E+04 2007.908194 LS_000045_0151
 9.894250E+03 1.410644E+04 2007.108379 LS_000045_0164
 9.807820E+03 1.405143E+04 2006.674625 LS_000045_0176
 9.755440E+03 1.393881E+04 2006.168826 LS_000045_0188
 9.705670E+03 1.380785E+04 2005.750360 LS_000045_0201
 9.627100E+03 1.380785E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 2.50000E+01 1

depth 1.00000E+00
 9.614000E+03 1.380785E+04 2005.480638 LS_000047_0014
 9.527570E+03 1.383404E+04 2005.202713 LS_000047_0020
 9.430660E+03 1.376332E+04 2004.934184 LS_000047_0026
 9.357320E+03 1.372403E+04 2004.623173 LS_000047_0032
 9.349460E+03 1.357212E+04 2004.251793 LS_000047_0038
 9.451610E+03 1.349354E+04 2003.942913 LS_000047_0051
 9.475180E+03 1.339140E+04 2003.569176 LS_000047_0076
 9.354700E+03 1.326044E+04 2003.013357 LS_000047_0101
 9.232700E+03 1.305076E+04 2002.328937 LS_000047_0126
 8.968320E+03 1.297417E+04 2001.602652 LS_000047_0151
 8.708880E+03 1.288522E+04 2001.051728 LS_000047_0164
 8.647100E+03 1.275673E+04 2000.602173 LS_000047_0170
 8.828703E+03 1.267893E+04 2000.221384 LS_000047_0176
 8.918960E+03 1.267176E+04 1999.985771 LS_000047_0182
 8.991550E+03 1.262250E+04 1999.765614 LS_000047_0188
 8.989613E+03 1.254368E+04 1999.580701 LS_000047_0201
 8.968920E+03 1.248623E+04
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 3.00000E+01 1
 depth 1.00000E+00
 8.962130E+03 1.247619E+04 1999.454571 LS_000048_0004
 8.910370E+03 1.237923E+04 1999.363712 LS_000048_0008
 8.858610E+03 1.228227E+04 1999.272854 LS_000048_0011
 8.806850E+03 1.218531E+04 1999.181996 LS_000048_0014
 8.755090E+03 1.208835E+04 1999.086706 LS_000048_0020
 8.695655E+03 1.198338E+04 1998.986984 LS_000048_0026
 8.636220E+03 1.187840E+04 1998.847194 LS_000048_0051
 8.433950E+03 1.179825E+04 1998.626036 LS_000048_0064
 8.147720E+03 1.193564E+04 1998.378719 LS_000048_0076
 7.941640E+03 1.174482E+04 1998.160575 LS_000048_0088
 7.697390E+03 1.178101E+04 1997.986624 LS_000048_0090
 7.666395E+03 1.160986E+04 1997.842839 LS_000048_0091
 7.635400E+03 1.143871E+04 1997.699053 LS_000048_0092
 7.604405E+03 1.126755E+04 1997.555267 LS_000048_0094
 7.573410E+03 1.109640E+04 1997.428085 LS_000048_0101
 7.552360E+03 1.096430E+04 1997.302328 LS_000048_0114
 7.718425E+03 1.092573E+04 1997.161394 LS_000048_0126
 7.884490E+03 1.088715E+04 1997.003740 LS_000048_0129
 7.817460E+03 1.068714E+04 1996.830269 LS_000048_0132
 7.751040E+03 1.048924E+04 1996.669005 LS_000048_0135
 7.651110E+03 1.033784E+04 1996.519908 LS_000048_0138
 7.551790E+03 1.018854E+04 1996.330706 LS_000048_0140
 7.619850E+03 9.918550E+03 1996.096872 LS_000048_0141
 7.828590E+03 9.721150E+03 1995.883022 LS_000048_0144
 7.778670E+03 9.496540E+03 1995.689876 LS_000048_0148
 7.998750E+03 9.408050E+03 1995.437589 LS_000048_0151
 7.948840E+03 9.038230E+03 1995.127976 LS_000048_0158
 8.046400E+03 8.675210E+03 1994.883162 LS_000048_0161
 7.852535E+03 8.579060E+03 1994.726581 LS_000048_0162
 7.696990E+03 8.532270E+03 1994.645501 LS_000048_0164
 7.672030E+03 8.509580E+03 1994.600388 LS_000048_0166
 7.644810E+03 8.439250E+03 1994.526854 LS_000048_0167
 7.692450E+03 8.348500E+03 1994.405336 LS_000048_0170
 7.878500E+03 8.303120E+03 1994.260076 LS_000048_0176
 7.882250E+03 8.143230E+03 1994.117991 LS_000048_0182
 7.847860E+03 7.962650E+03 1993.969491 LS_000048_0188
 7.744660E+03 7.820760E+03 1993.733995 LS_000048_0194

7.370590E+03 7.696070E+03 1993.485509 LS_000048_0201
 7.471140E+03 7.515270E+03
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 3.50000E+01 1
 depth 1.00000E+00
 7.469490E+03 7.518270E+03 1993.249232 LS_000049_0014
 7.609025E+03 7.190320E+03 1992.947695 LS_000049_0026
 7.748560E+03 6.862370E+03 1992.700564 LS_000049_0038
 7.530025E+03 6.798095E+03 1992.507839 LS_000049_0051
 7.311490E+03 6.733820E+03 1992.218230 LS_000049_0054
 7.581445E+03 6.365305E+03 1991.831737 LS_000049_0058
 7.851400E+03 5.996790E+03 1991.527544 LS_000049_0061
 7.872825E+03 5.735400E+03 1991.305650 LS_000049_0064
 7.894250E+03 5.474010E+03 1991.082185 LS_000049_0067
 7.881395E+03 5.208340E+03 1990.857149 LS_000049_0070
 7.868540E+03 4.942670E+03 1990.554921 LS_000049_0073
 7.510820E+03 4.672210E+03 1990.300923 LS_000049_0076
 7.429880E+03 4.543590E+03 1990.169247 LS_000049_0082
 7.504315E+03 4.402750E+03 1990.010772 LS_000049_0088
 7.662860E+03 4.257060E+03 1989.808470 LS_000049_0094
 7.558775E+03 4.015640E+03 1989.586039 LS_000049_0101
 7.454690E+03 3.774220E+03 1989.214704 LS_000049_0126
 6.865840E+03 3.597160E+03 1988.672524 LS_000049_0151
 6.470580E+03 3.060185E+03 1988.081388 LS_000049_0176
 5.794580E+03 2.783000E+03 1987.536156 LS_000049_0201
 5.476030E+03 2.324560E+03
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 end
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 4.50000E+01 1
 depth 1.00000E+00
 5.295540E+03 1.002830E+03 1981.049926 LS_000050_0126
 5.262120E+03 9.034450E+02 1980.719561 LS_000050_0151
 5.227780E+03 7.822500E+02 1980.171711 LS_000050_0176
 5.142950E+03 5.398600E+02 1979.470496 LS_000050_0201
 4.936920E+03 4.307900E+02 1978.975636 LS_000050_0214
 4.841980E+03 4.913850E+02 1978.653230 LS_000050_0226
 4.747040E+03 5.519800E+02 1978.377386 LS_000050_0232
 4.687455E+03 4.984525E+02 1978.148104 LS_000050_0238
 4.627870E+03 4.449250E+02 1977.976143 LS_000050_0241
 4.598078E+03 4.181613E+02 1977.861502 LS_000050_0244
 4.568285E+03 3.913975E+02 1977.762354 LS_000050_0248
 4.546570E+03 3.718400E+02 1977.660264 LS_000050_0301
 4.516400E+03 3.424700E+02
 * stream parameter is End Inflow (L³/day)
 stream 0.000000E+00
 overlandflow 0.000000E+00
 resistance 0.000000E+00
 width 4.00000E+01 1
 depth 1.00000E+00
 5.474980E+03 2.319780E+03 1986.856325 LS_000056_0101
 5.417730E+03 2.128210E+03 1985.553036 LS_000056_0201
 5.474980E+03 1.745080E+03 1984.136404 LS_000056_0301
 5.474980E+03 1.494060E+03 1983.164983 LS_000056_0401
 5.360480E+03 1.346530E+03 1981.975291 LS_000056_0501
 5.296630E+03 1.003030E+03

```

quit
layout
window 11395.56 17672.30 12809.69 18349.10
quit
time 0
solve conjunctive 8 3 1 1

save 9416831I
y
time 0
extract
file 9416831I
y
gage 4519.28 342.25 TG_004278
well discharge
well head
ppwell discharge
ppwell head
Theis well
linesink discharge
linesink head
inhomogeneity
quit
grid
window 11395.56 17672.30 12809.69 18349.10
dotmap off
horizontalpoints 80
plot heads
go
save 9416831I
y
surfer 9416831I
y
quit
trace
picture off
file 9416831I
y
time 365
step 6.27094373556647
points
1.1889430E+04 1.8030130E+04 1.9310000E+03 1.0
1.1891100E+04 1.8037650E+04 1.9310000E+03 1.0
1.1891100E+04 1.8048510E+04 1.9310000E+03 1.0
1.1889850E+04 1.8071490E+04 1.9310000E+03 1.0
1.1891100E+04 1.8108250E+04 1.9310000E+03 1.0
1.1895690E+04 1.8143350E+04 1.9310000E+03 1.0
1.1904050E+04 1.8164650E+04 1.9310000E+03 1.0
1.1912820E+04 1.8189720E+04 1.9310000E+03 1.0
1.1921600E+04 1.8213530E+04 1.9310000E+03 1.0
1.1930370E+04 1.8224810E+04 1.9310000E+03 1.0
1.1938720E+04 1.8234840E+04 1.9310000E+03 1.0
1.1944160E+04 1.8241110E+04 1.9310000E+03 1.0
quit
go
quit
stop

```