Untitled

MG Nkadimeng

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## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

summary(cars)

## speed dist   
## Min. : 4.0 Min. : 2.00   
## 1st Qu.:12.0 1st Qu.: 26.00   
## Median :15.0 Median : 36.00   
## Mean :15.4 Mean : 42.98   
## 3rd Qu.:19.0 3rd Qu.: 56.00   
## Max. :25.0 Max. :120.00

## Including Plots

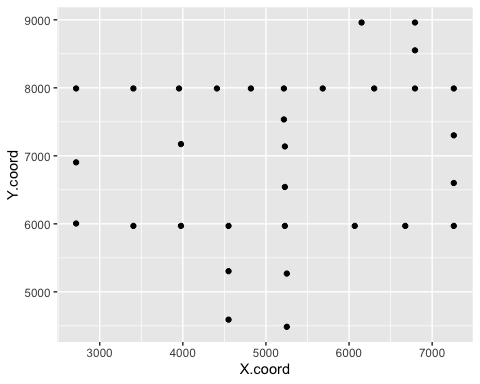
You can also embed plots, for example:

Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.

summary(n1)

## $Title  
## NULL  
##   
## $entryCounts  
## Number  
## Junctions 31  
## Reservoirs 1  
## Pipes 34  
## Coordinates 32  
##   
## attr(,"class")  
## [1] "summary.epanet.inp"

library(ggplot2)  
cr <- n1$Coordinates  
ggplot(cr , aes(X.coord, Y.coord)) + geom\_point()



n1

## $Title  
## NULL  
##   
## $Junctions  
## ID Elevation Demand Pattern  
## 1 10 30 155.77580 P\_10  
## 2 11 30 135.71031 P\_11  
## 3 12 30 158.93342 P\_12  
## 4 13 30 295.17816 P\_13  
## 5 14 30 181.99949 P\_14  
## 6 15 30 68.22532 P\_15  
## 7 16 30 85.60412 P\_16  
## 8 17 30 224.89915 P\_17  
## 9 18 30 427.13213 P\_18  
## 10 19 30 15.99945 P\_19  
## 11 2 30 280.17574 P\_2  
## 12 20 30 331.24825 P\_20  
## 13 21 30 243.43853 P\_21  
## 14 22 30 123.14023 P\_22  
## 15 23 30 256.18534 P\_23  
## 16 24 30 248.65171 P\_24  
## 17 25 30 49.52698 P\_25  
## 18 26 30 263.54669 P\_26  
## 19 27 30 112.81802 P\_27  
## 20 28 30 83.06254 P\_28  
## 21 29 30 96.71243 P\_29  
## 22 3 30 220.82910 P\_3  
## 23 30 30 105.36210 P\_30  
## 24 31 30 25.60799 P\_31  
## 25 32 30 248.08018 P\_32  
## 26 4 30 34.16768 P\_4  
## 27 5 30 222.60561 P\_5  
## 28 6 30 319.13726 P\_6  
## 29 7 30 360.92830 P\_7  
## 30 8 30 169.13246 P\_8  
## 31 9 30 139.56333 P\_9  
##   
## $Tanks  
## NULL  
##   
## $Reservoirs  
## ID Head Pattern  
## 1 1 100 NA  
##   
## $Pipes  
## ID Node1 Node2 Length Diameter Roughness MinorLoss Status  
## 1 1 1 2 101.8227 1032.5788 132.0315 0 Open  
## 2 10 10 11 987.5174 781.0109 117.0064 0 Open  
## 3 11 11 12 1238.7269 801.7894 134.9172 0 Open  
## 4 12 12 13 3352.5162 610.0255 129.3119 0 Open  
## 5 13 10 14 801.1631 432.5173 142.5197 0 Open  
## 6 14 14 15 522.6046 410.2378 137.8775 0 Open  
## 7 15 15 16 550.5200 293.9906 135.7511 0 Open  
## 8 16 17 16 2858.3929 369.3999 131.5999 0 Open  
## 9 17 17 18 1773.9333 514.2606 137.0129 0 Open  
## 10 18 18 19 782.5734 605.5914 120.8565 0 Open  
## 11 19 19 3 403.2065 586.4745 132.9782 0 Open  
## 12 2 2 3 1337.5068 950.9962 120.4167 0 Open  
## 13 20 3 20 2252.8315 950.7895 121.7172 0 Open  
## 14 21 20 21 1443.3665 552.3491 124.3549 0 Open  
## 15 22 21 22 506.5600 313.5412 120.6469 0 Open  
## 16 23 20 23 2714.0274 1046.6808 118.6827 0 Open  
## 17 24 23 24 1193.2357 756.5249 141.5037 0 Open  
## 18 25 24 25 1256.2352 737.6673 127.0521 0 Open  
## 19 26 26 25 825.7778 477.4439 132.1164 0 Open  
## 20 27 27 26 285.6935 274.3641 131.8654 0 Open  
## 21 28 16 27 773.1004 313.1806 131.7228 0 Open  
## 22 29 23 28 1556.4000 418.5538 134.4003 0 Open  
## 23 3 3 4 942.1140 942.9965 142.5124 0 Open  
## 24 30 28 29 1997.2368 412.2381 126.4847 0 Open  
## 25 31 29 30 1553.0820 294.2326 121.5079 0 Open  
## 26 32 30 31 153.1708 318.5912 130.3373 0 Open  
## 27 33 32 31 892.1622 441.3251 126.9478 0 Open  
## 28 34 25 32 970.7698 492.1122 119.2366 0 Open  
## 29 4 4 5 1177.5737 1046.3161 139.6072 0 Open  
## 30 5 5 6 1451.7704 1090.5739 140.6532 0 Open  
## 31 6 6 7 437.3368 1039.9756 129.3940 0 Open  
## 32 7 7 8 837.9012 1056.0821 127.8199 0 Open  
## 33 8 8 9 857.5721 1038.2016 125.6884 0 Open  
## 34 9 9 10 815.7009 992.5071 132.6997 0 Open  
##   
## $Pumps  
## NULL  
##   
## $Valves  
## NULL  
##   
## $Demands  
## NULL  
##   
## $Patterns  
## $Patterns$P\_29  
## [1] 0.544491 0.483095 0.417888 0.387301 0.382004 0.313721 0.310443 0.336987  
## [9] 0.409848 0.447484 0.492514 0.646530 0.780904 0.820903 0.934010 1.073819  
## [17] 1.206724 1.257337 1.264453 1.301647 1.430810 1.210004 1.273662 1.222559  
## [25] 1.356260 1.264574 1.188661 1.021395 0.997065 1.002325 1.027026 0.863655  
## [33] 0.875134 0.940678 0.863694 0.910974 1.037434 0.974844 1.083807 1.101071  
## [41] 1.187368 1.030221 1.034692 1.017774 0.899987 0.892217 0.782421 0.733922  
## [49] 0.559619 0.528230 0.457489 0.351823 0.346050 0.316479 0.309422 0.331659  
## [57] 0.404629 0.461067 0.502311 0.643564 0.756892 0.887462 0.863036 1.076309  
## [65] 1.016963 1.121927 1.334665 1.210488 1.138345 1.223134 1.243247 1.304131  
## [73] 1.162845 1.095245 1.033724 0.973986 0.915865 0.990609 0.982664 0.928628  
## [81] 0.966643 0.934429 0.989378 0.982974 1.071998 1.142328 1.081454 1.139014  
## [89] 1.171680 1.058874 1.079952 1.082014 1.011268 0.937890 0.747237 0.633190  
## [97] 0.581524 0.499833 0.444921 0.393810 0.345793 0.341097 0.338408 0.346772  
## [105] 0.419226 0.487653 0.548745 0.684847 0.736131 0.828797 0.996355 1.072976  
## [113] 1.126557 1.199780 1.262096 1.277252 1.187505 1.166296 1.218607 1.255586  
## [121] 1.192118 1.086638 1.243746 1.018165 1.033577 1.048393 1.004220 1.004730  
## [129] 0.967725 0.830479 1.005659 1.000898 0.980470 1.055023 1.121132 1.072609  
## [137] 1.025779 1.082769 1.044335 0.927496 1.001558 0.871599 0.786539 0.720526  
## [145] 0.593471 0.533120 0.450310 0.404020 0.365342 0.312046 0.352959 0.348777  
## [153] 0.427440 0.457314 0.570605 0.647099 0.754743 0.895275 0.850407 1.043893  
## [161] 1.094160 1.243729 1.282160 1.176172 1.284011 1.307860 1.119424 1.135403  
## [169] 1.189297 1.072180 1.037098 0.999559 0.965109 0.988326 0.970814 0.915022  
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## [193] 0.620577 0.559488 0.477846 0.419643 0.365443 0.331300 0.329909 0.376502  
## [201] 0.427265 0.523696 0.654024 0.732462 0.905328 0.948627 1.130471 1.251139  
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## [217] 1.359579 1.269922 1.226188 1.208479 1.097828 1.024777 1.034013 1.090295  
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## [257] 0.969519 1.023931 1.151946 1.023949 1.236597 1.242371 1.228465 1.199046  
## [265] 1.291804 1.167784 1.088622 1.055630 1.052219 1.150947 1.077108 1.060125  
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## [281] 0.909871 0.998124 0.865646 0.768376 0.870484 0.753789 0.706275 0.663936  
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## [297] 0.372480 0.413069 0.438911 0.474477 0.508447 0.591376 0.652438 0.708540  
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## [401] 1.132942 1.183363 1.285961 1.282786 1.323976 1.198178 1.310390 1.301600  
## [409] 1.013714 1.173622 1.094394 1.051679 0.995041 0.988529 0.935371 0.939399  
## [417] 0.947264 1.037252 0.950310 1.135140 1.047954 1.222163 1.157411 1.192507  
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## [433] 0.565168 0.541302 0.446517 0.396681 0.352496 0.322290 0.358155 0.363170  
## [441] 0.442231 0.470424 0.583056 0.651480 0.746528 0.854705 0.935210 1.008933  
## [449] 1.170459 1.104802 1.248463 1.255968 1.200638 1.357735 1.115660 1.292361  
## [457] 1.165317 1.163378 1.081440 1.160444 1.084414 1.032059 1.036344 0.998559  
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## [497] 1.140704 1.181845 1.251839 1.204593 1.320206 1.303572 1.283356 1.124108  
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## [545] 1.365543 1.561498 1.533138 1.505308 1.452591 1.515576 1.444044 1.442740  
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## [585] 0.345145 0.466042 0.462477 0.528382 0.684953 0.699051 0.856582 0.864596  
## [593] 0.908860 1.048205 1.130540 1.156068 1.175955 1.316422 1.280231 1.131003  
## [601] 1.202339 1.191451 1.131901 1.112872 1.052786 1.084532 1.018342 1.059949  
## [609] 1.119573 1.026060 1.099286 1.107693 1.055269 1.135978 0.900579 1.118833  
## [617] 0.942415 0.855987 0.985236 0.858437 0.808422 0.764890 0.674549 0.610202  
## [625] 0.578146 0.513686 0.467014 0.478881 0.451616 0.434323 0.372768 0.384893  
## [633] 0.380522 0.362412 0.443814 0.467253 0.509974 0.558241 0.666003 0.705002  
## [641] 0.749929 0.892715 0.871981 0.917943 1.025280 1.085076 1.169126 1.161036  
## [649] 1.117738 1.058743 1.032288 1.151881 0.924859 0.953750 0.939278 0.957676  
## [657] 1.053497 0.877309 0.954604 0.935997 1.038476 1.040379 1.062015 1.039632  
## [665] 0.990472 1.070898 0.988226 0.915030 0.941470 0.941223 0.783477 0.681226  
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## [681] 0.391975 0.447447 0.523864 0.637024 0.781795 0.850526 0.970678 1.205559  
## [689] 1.128127 1.253248 1.269650 1.292090 1.290698 1.412527 1.385760 1.405748  
## [697] 1.227370 1.221837 1.123511 1.118700 0.975146 0.981134 0.940680 0.873863  
## [705] 0.925479 0.890567 0.957956 0.911989 1.081578 0.997834 1.107252 1.136483  
## [713] 1.161146 1.111872 1.155760 1.091465 0.972239 0.933804 0.767121 0.703071  
## [721] 0.615854 0.545860 0.450280 0.379826 0.328393 0.328192 0.325737 0.336452  
## [729] 0.445177 0.449007 0.591073 0.666470 0.760929 0.980462 0.927391 1.087532  
## [737] 1.099136 1.236408 1.239338 1.303052 1.287822 1.403471 1.301620 1.149737  
## [745] 1.190899 1.143403 1.055133 1.002705 0.989973 0.907237 0.966945 0.948833  
## [753] 0.988444 0.964075 1.026608 0.970584 1.072376 1.076090 1.072918 1.131714  
## [761] 1.128136 1.171923 1.064232 1.064537 1.046229 0.868535 0.820207 0.750593  
## [769] 0.672954 0.522776 0.470428 0.405901 0.310874 0.335471 0.373558 0.381540  
## [777] 0.390039 0.456509 0.565762 0.648496 0.748491 0.874597 1.031027 1.154097  
## [785] 1.104978 1.236565 1.180128 1.228008 1.344380 1.303431 1.319230 1.313901  
## [793] 1.278031 1.169835 1.140815 1.132885 1.058716 1.211548 1.093407 0.946453  
## [801] 0.875700 1.029395 1.044750 0.974817 1.103322 1.137603 1.065309 1.144199  
## [809] 1.166629 1.081795 1.187676 1.096388 1.139207 0.947155 0.856050 0.766101  
## [817] 0.693141 0.609927 0.494207 0.409463 0.387508 0.332300 0.371389 0.359547  
## [825] 0.405508 0.509039 0.592765 0.630681 0.829196 0.873401 0.977180 1.077173  
## [833] 1.037484 1.187995 1.275065 1.159807 1.291245 1.169256 1.149132 1.206461  
## [841] 1.186757 1.066499 1.140524 1.118678 1.101965 0.922976 0.964600 1.010172  
## [849] 1.076613 1.118719 1.055362 1.121938 1.140595 1.156721 1.065593 1.152772  
## [857] 1.139885 1.100381 1.147556 1.036315 0.969772 0.958152 0.872421 0.767368  
## [865] 0.674393 0.603697 0.489999 0.422526 0.379312 0.365481 0.350485 0.413356  
## [873] 0.501953 0.599035 0.619514 0.751461 0.919796 1.083194 1.091907 1.330213  
## [881] 1.343778 1.343742 1.485007 1.444662 1.548381 1.519139 1.497660 1.406907  
## [889] 1.330612 1.203757 1.249573 1.083272 1.119359 1.097999 1.100106 1.038147  
## [897] 1.098550 1.078838 1.066495 1.077727 1.196726 1.155828 1.111146 1.175100  
## [905] 1.016370 1.063861 1.116694 0.993498 1.028234 0.962430 0.835891 0.761477  
## [913] 0.672471 0.637148 0.582210 0.470427 0.411481 0.390024 0.386669 0.352817  
## [921] 0.385860 0.466896 0.482692 0.551417 0.625447 0.743280 0.824016 0.920795  
## [929] 0.969245 1.058766 1.147581 1.244474 1.229885 1.182866 1.330441 1.365116  
## [937] 1.233230 1.288415 1.292464 1.156304 1.235484 1.060573 1.120736 0.983276  
## [945] 1.109875 1.185772 1.102243 1.100458 1.075525 1.092917 0.977046 1.101889  
## [953] 0.890738 0.926993 1.010715 0.839620 0.798618 0.843198 0.721701 0.743628  
## [961] 0.692888 0.544462 0.520493 0.432630 0.462485 0.437291 0.404796 0.406850  
## [969] 0.378732 0.440267 0.442575 0.440266 0.512295 0.589431 0.656581 0.790235  
## [977] 0.785131 0.875745 0.853402 1.089011 1.074638 1.159006 1.082691 1.261518  
## [985] 1.173636 1.160186 1.050576 1.116046 0.998787 1.030477 1.025728 0.876662  
## [993] 0.954226 0.949508 0.980614 0.979384 1.043011 1.110193 1.093481 1.124310  
## [1001] 1.010293 1.006926 1.005759 0.998395 0.889568 0.839464 0.696334 0.659698  
## [1009] 0.638158 0.488528 0.459509 0.387199 0.361900 0.331356 0.328329 0.342251  
## [1017] 0.436220 0.485056 0.545904 0.693431 0.790250 0.863310 1.015758 1.153819  
## [1025] 1.218050 1.250147 1.399319 1.316081 1.426516 1.314619 1.401893 1.297600  
## [1033] 1.312783 1.245004 1.234380 0.996237 1.029193 1.019846 0.902306 0.938874  
## [1041] 0.966634 0.911116 1.037519 0.944689 0.998723 1.051409 1.177463 1.027320  
## [1049] 1.097324 1.161112 1.118820 1.109505 1.032737 0.930555 0.855823 0.727092  
## [1057] 0.600779 0.561840 0.466673 0.404784 0.384162 0.331785 0.338423 0.346338  
## [1065] 0.357750 0.458806 0.584545 0.595058 0.785513 0.895003 1.027106 1.051068  
## [1073] 1.170337 1.249028 1.325746 1.335303 1.363708 1.384618 1.287368 1.283598  
## [1081] 1.298581 1.193431 1.137673 1.206511 1.066453 0.890035 0.884782 1.020985  
## [1089] 0.899802 0.985389 1.053230 1.062824 1.134268 1.161206 1.238877 1.134852  
## [1097] 1.215726 1.123963 1.200776 1.079098 0.995829 0.917135 0.776312 0.699999  
## [1105] 0.579061 0.553781 0.408013 0.372597 0.348675 0.348180 0.335712 0.407955  
## [1113] 0.402670 0.512997 0.599382 0.720012 0.796145 0.846646 1.011974 0.993206  
## [1121] 1.141036 1.240928 1.302821 1.279156 1.182568 1.287223 1.330122 1.275096  
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## [9] 0.472403 0.577618 0.503733 0.642756 0.748999 0.787285 0.885995 1.004508  
## [17] 1.098002 1.097746 1.236946 1.199848 1.281109 1.240309 1.125977 1.140047  
## [25] 1.102130 1.004722 1.124763 1.008624 0.985856 0.909811 0.977442 0.848180  
## [33] 0.896201 0.898532 0.911639 0.889145 0.905046 0.962604 1.051026 1.099156  
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## [49] 0.657182 0.603780 0.508560 0.492917 0.441872 0.371389 0.405064 0.460733  
## [57] 0.509279 0.551364 0.625932 0.712036 0.777991 0.839074 0.873642 0.942711  
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## [105] 0.506439 0.550590 0.647152 0.675581 0.742707 0.847512 0.960058 1.026662  
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## [121] 1.136259 1.120244 1.117664 1.027789 0.949070 1.034488 0.957069 1.051629  
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## [137] 1.089587 1.018280 1.071797 0.988872 0.897754 0.856660 0.701795 0.723411  
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## [153] 0.523224 0.562526 0.677150 0.686737 0.843994 0.744316 1.014379 0.903001  
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## [25] 1.110785 1.127806 1.101819 1.072136 1.004773 0.886728 0.893975 0.893543  
## [33] 0.851898 0.891024 0.940514 0.955768 1.009498 1.072668 1.041416 1.019050  
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## [17465] 0.943988 0.939887 0.885293 0.891187 0.856531 0.801106 0.676712 0.666827  
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## [17] 1.102962 1.163468 1.195580 1.383638 1.198063 1.314005 1.224382 1.339580  
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## [49] 0.610670 0.500991 0.469877 0.372753 0.382204 0.314146 0.327582 0.356095  
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## [16977] 0.957790 0.979456 0.988844 0.981382 0.971330 1.163747 1.127056 1.025274  
## [16985] 1.093987 1.023109 1.015432 0.971576 0.892777 0.884135 0.820356 0.754205  
## [16993] 0.691513 0.599774 0.554332 0.519057 0.444124 0.446930 0.443516 0.527920  
## [17001] 0.545445 0.621494 0.633846 0.806315 0.804438 0.960056 1.122469 1.035019  
## [17009] 1.267478 1.163313 1.364550 1.233913 1.300610 1.255736 1.302410 1.144263  
## [17017] 1.210886 1.205545 1.098832 1.028023 0.980486 1.039551 1.018438 0.980983  
## [17025] 1.018406 0.988824 0.973684 1.085223 0.998217 1.146036 0.991515 1.099985  
## [17033] 0.999896 1.038006 0.999408 1.011120 0.907185 0.858815 0.857089 0.794299  
## [17041] 0.729152 0.622453 0.611205 0.514801 0.542637 0.463690 0.456419 0.497257  
## [17049] 0.487840 0.462804 0.521759 0.521849 0.596955 0.666381 0.707804 0.795854  
## [17057] 0.938586 0.949705 1.018949 0.989283 1.088000 1.083090 1.109914 1.127343  
## [17065] 1.031421 1.079131 1.039306 1.052700 1.102246 1.022780 0.932837 1.007680  
## [17073] 0.903751 1.064858 1.050425 1.042859 0.976347 1.028408 1.066207 0.941916  
## [17081] 0.992881 0.998257 0.874340 0.853897 0.827058 0.783782 0.742996 0.696580  
## [17089] 0.663644 0.578018 0.614497 0.527296 0.471848 0.469285 0.436205 0.465935  
## [17097] 0.434272 0.489924 0.455682 0.531032 0.549959 0.561556 0.599945 0.667752  
## [17105] 0.782249 0.857311 0.814792 0.925288 0.913563 1.054625 1.153526 1.088724  
## [17113] 1.005609 0.998527 0.988666 1.087033 1.072381 0.894041 1.009954 0.987138  
## [17121] 0.992954 0.895163 1.015302 0.891182 1.032311 0.884109 0.951565 1.016125  
## [17129] 1.048947 0.946514 0.924680 0.931643 0.855605 0.777609 0.806469 0.672787  
## [17137] 0.652646 0.546069 0.440507 0.453147 0.407411 0.435086 0.415501 0.431903  
## [17145] 0.494331 0.507422 0.541365 0.632500 0.723053 0.761318 0.972161 1.006915  
## [17153] 1.067001 1.180927 1.172558 1.297390 1.204992 1.215176 1.269943 1.139297  
## [17161] 1.155350 1.177887 1.061847 1.004589 1.028540 0.962967 0.898207 0.905249  
## [17169] 0.809622 0.962660 0.963475 0.850749 0.935150 0.981076 1.061303 1.079423  
## [17177] 0.976116 1.077653 1.046236 1.022322 0.937580 0.956208 0.813455 0.750833  
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## [17193] 0.490875 0.546617 0.609075 0.619873 0.654053 0.814773 0.857141 0.906562  
## [17201] 1.029062 1.038788 1.032770 1.164740 1.185048 1.099369 1.096243 1.125435  
## [17209] 1.172557 1.087153 1.021385 1.000859 0.881829 0.926861 0.928313 0.845286  
## [17217] 0.919977 0.921832 0.963662 1.050990 1.034013 0.993279 1.074133 1.064658  
## [17225] 0.957342 1.023955 1.015403 1.003048 0.964372 0.841608 0.893292 0.705866  
## [17233] 0.651623 0.603166 0.509028 0.441514 0.464226 0.427920 0.415391 0.433839  
## [17241] 0.494659 0.560016 0.645344 0.702432 0.829636 0.831533 0.894012 0.908401  
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## [17273] 1.123725 1.100187 1.051425 1.005807 0.978439 0.806302 0.861516 0.702013  
## [17281] 0.676156 0.600758 0.533679 0.481371 0.471455 0.451552 0.435073 0.445707  
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## [17297] 0.987172 1.094037 1.197461 1.215601 1.153631 1.132887 1.217674 1.156886  
## [17305] 1.027440 1.131033 1.070553 1.057041 1.017894 1.102175 0.978542 1.035326  
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## [17321] 1.103760 1.095161 1.061343 0.948267 0.901382 0.878672 0.808964 0.730421  
## [17329] 0.658033 0.572538 0.530704 0.511336 0.444664 0.433132 0.423196 0.472707  
## [17337] 0.541822 0.550528 0.673193 0.715373 0.842976 1.005283 1.104269 1.072200  
## [17345] 1.143414 1.327995 1.372557 1.312096 1.242730 1.250352 1.211268 1.290648  
## [17353] 1.162262 1.141857 1.195878 1.154879 1.081908 0.981459 0.951539 1.006853  
## [17361] 1.106449 1.017341 1.088435 1.102545 1.107736 1.043214 0.959327 1.005863  
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## [17377] 0.695626 0.649515 0.622473 0.523295 0.506812 0.510683 0.481559 0.448758  
## [17385] 0.470575 0.499868 0.492300 0.621493 0.601321 0.682195 0.788477 0.837827  
## [17393] 0.946394 0.974342 0.995165 1.101629 1.101978 1.100123 1.110876 1.193902  
## [17401] 1.007519 1.033373 1.095123 1.034165 1.055419 0.977781 1.042904 1.002423  
## [17409] 1.094199 1.097458 1.022372 0.947875 1.004458 0.989721 0.975658 1.003354  
## [17417] 0.947312 0.940069 0.973938 0.931617 0.774035 0.752417 0.710126 0.680053  
## [17425] 0.586888 0.657800 0.544937 0.483562 0.502597 0.468827 0.451516 0.461333  
## [17433] 0.464699 0.455255 0.470954 0.494201 0.572800 0.529944 0.662396 0.670094  
## [17441] 0.798110 0.830094 0.858298 0.945449 0.972725 0.997051 1.070488 1.090095  
## [17449] 1.142920 1.060307 1.093744 1.010588 0.929275 1.003856 0.930412 0.920675  
## [17457] 0.945625 0.846622 0.913545 0.992329 0.944188 0.904749 1.018247 1.044458  
## [17465] 1.018740 0.934211 0.963191 0.873582 0.852164 0.794076 0.748346 0.656887  
## [17473] 0.632105 0.548295 0.490544 0.458802 0.429232 0.379916 0.440656 0.418393  
## [17481] 0.431560 0.548367 0.548966 0.684081 0.781105 0.774663 0.879723 1.020319  
## [17489] 1.052025 1.159621 1.179717 1.273315 1.269048 1.296086 1.362193 1.248535  
## [17497] 1.066813 1.029896 1.182214 0.978743 1.001551 0.972767 0.962305 0.827825  
## [17505] 0.878316 0.892430 1.013442 0.898291 0.908015 1.010585 1.169692 1.110892  
## [17513] 1.043194 0.972572 1.030408 1.038798 0.922044 0.846446 0.828606 0.744830  
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##   
## $Curves  
## NULL  
##   
## $Controls  
## NULL  
##   
## $Rules  
## NULL  
##   
## $Energy  
## [1] "GLOBAL PRICE 0.0000" "GLOBAL PATTERN \"\"" "GLOBAL EFFIC 75.0000"  
## [4] "DEMAND CHARGE 0.0000"  
##   
## $Status  
## NULL  
##   
## $Emitters  
## NULL  
##   
## $Quality  
## NULL  
##   
## $Sources  
## NULL  
##   
## $Reactions  
## [1] "ORDER BULK 1" "ORDER WALL 1"   
## [3] "ORDER TANK 1" "GLOBAL BULK 0.0000"   
## [5] "GLOBAL WALL 0.0000" "LIMITING POTENTIAL 0.0000"   
## [7] "ROUGHNESS CORRELATION 0.0000"  
##   
## $Mixing  
## NULL  
##   
## $Times  
## [1] "DURATION 8760:00:00" "HYDRAULIC TIMESTEP 00:30:00"  
## [3] "PATTERN TIMESTEP 00:30:00" "PATTERN START 00:00:00"   
## [5] "REPORT TIMESTEP 00:30:00" "REPORT START 00:00:00"   
## [7] "START CLOCKTIME 00:00:00 AM" "QUALITY TIMESTEP 00:00:00"   
## [9] "STATISTIC NONE"   
##   
## $Report  
## [1] "SUMMARY NO"  
##   
## $Options  
## $Options$UNITS  
## [1] "CMH"  
##   
## $Options$HEADLOSS  
## [1] "H-W"  
##   
## $Options$HYDRAULICS  
## [1] NA  
##   
## $Options$QUALITY  
## [1] "NONE"  
##   
## $Options$VISCOSITY  
## [1] "1"  
##   
## $Options$DIFFUSIVITY  
## [1] "1"  
##   
## $Options$SPECIFIC\_GRAVITY  
## [1] "1"  
##   
## $Options$TRIALS  
## [1] "40"  
##   
## $Options$ACCURACY  
## [1] "1e-06"  
##   
## $Options$UNBALANCED  
## [1] "STOP"  
##   
## $Options$PATTERN  
## [1] "1"  
##   
## $Options$DEMAND\_MULTIPLIER  
## [1] "1"  
##   
## $Options$EMITTER\_EXPONENT  
## [1] "0.5"  
##   
## $Options$TOLERANCE  
## [1] "0.01"  
##   
## $Options$MAP  
## [1] NA  
##   
##   
## $Coordinates  
## Node X.coord Y.coord  
## 1 24 3977.80 7172.90  
## 2 25 3954.44 7990.65  
## 3 26 4410.05 7990.65  
## 4 27 4818.93 7990.65  
## 5 20 4550.23 5969.63  
## 6 21 4550.23 5303.74  
## 7 22 4550.23 4591.12  
## 8 23 3977.80 5969.63  
## 9 28 3405.37 5969.63  
## 10 29 2716.12 6004.67  
## 11 1 5251.17 4485.98  
## 12 3 5227.80 5969.63  
## 13 2 5251.17 5268.69  
## 14 5 6676.40 5969.63  
## 15 4 6068.93 5969.63  
## 16 7 7260.51 6600.47  
## 17 6 7260.51 5969.63  
## 18 9 7260.51 7990.65  
## 19 8 7260.51 7301.40  
## 20 11 6793.22 8551.40  
## 21 10 6793.22 7990.65  
## 22 13 6150.70 8960.28  
## 23 12 6793.22 8960.28  
## 24 15 5683.41 7990.65  
## 25 14 6302.57 7990.65  
## 26 17 5216.12 7535.05  
## 27 16 5216.12 7990.65  
## 28 19 5227.80 6542.06  
## 29 18 5227.80 7137.85  
## 30 31 2716.12 7990.65  
## 31 30 2716.12 6904.21  
## 32 32 3405.37 7990.65  
##   
## $Vertices  
## NULL  
##   
## $Labels  
## NULL  
##   
## $Backdrop  
## [1] "DIMENSIONS 0.00 0.00 10000.00 10000.00"  
## [2] "UNITS None"   
## [3] "OFFSET 0.00 0.00"   
##   
## $Tags  
## NULL  
##   
## attr(,"class")  
## [1] "epanet.inp"