```
=== Input State Variables [mg/L] ============================================
Q,      VFA, FBSO, BPO, UPO, USO, iSS, FSA,  OP,   NOx
24.875, 50,  115,  255, 10,  45,  15,  39.1, 7.28, 0

=== Influent summary ==================+== AS+NIT+DN parameters ===============
Q:     24.8750            [ML/d]       | T            16      ºC
COD:  475.0000, 1815.6250 [mg/L, kg/d] | Vp           8473.3  m3
TKN:   50.0441, 1244.8492 [mg/L, kg/d] | Rs           15      d
FSA:   39.1000,  972.6125 [mg/L, kg/d] | RAS          1.0     ø
NOx:    0.0000,    0.0000 [mg/L, kg/d] | waste_from   "reactor"
TP:     9.6099,  239.0476 [mg/L, kg/d] | SF           1.25    ø
PO4:    7.2800,  181.0900 [mg/L, kg/d] | fxt          0.39    ø
TOC:  158.7829, 3949.7258 [mg/L, kg/d] | DO           2.0     mgO/L
TSS:  189.1848, 4705.9742 [mg/L, kg/d] | pH           7.2     pH units
iSS:   15.0000,  373.1250 [mg/L, kg/d] | IR           5.4     ø (=a)
VSS:  174.1848, 4332.8492 [mg/L, kg/d] | DO_RAS       1.0     mgO/L
                                       | influent_alk 250     mg/L as CaCO3
                                       |
=== Effluent summary ==================+=== Wastage summary ==================
Q:     24.3101            [ML/d]       | Q:      0.5648            [ML/d]
COD:   45.0000, 1093.9551 [mg/L, kg/d] | COD: 5292.1883, 2989.4866 [mg/L, kg/d]
TKN:    2.0200,   49.1074 [mg/L, kg/d] | TKN:  247.8694,  140.0181 [mg/L, kg/d]
FSA:    0.9160,   22.2897 [mg/L, kg/d] | FSA:    0.9168,    0.5179 [mg/L, kg/d]
NOx:    5.5618,  135.2092 [mg/L, kg/d] | NOx:    5.5618,    3.1418 [mg/L, kg/d]
TP:     7.5985,  184.7204 [mg/L, kg/d] | TP:    67.7155,   38.2515 [mg/L, kg/d]
PO4:    7.5985,  184.7204 [mg/L, kg/d] | PO4:    7.5985,    4.2922 [mg/L, kg/d]
TOC:   15.0100,  364.8959 [mg/L, kg/d] | TOC: 1796.9489, 1015.0725 [mg/L, kg/d]
TSS:    0.0000,    0.0000 [mg/L, kg/d] | TSS: 4456.3932, 2517.3571 [mg/L, kg/d]
iSS:    0.0000,    0.0000 [mg/L, kg/d] | iSS:  956.9927,  540.5924 [mg/L, kg/d]
VSS:    0.0000,    0.0000 [mg/L, kg/d] | VSS: 3499.4005, 1976.7647 [mg/L, kg/d]
                                       |
=== AS process variables ==============+==== NIT process variables ============
fSus          0.0947 g_USO/g_COD       | µAmT              0.2829 1/d
fSup          0.0210 g_UPO/g_COD       | µAmO              0.2829 1/d
Ns            8.0458 mg/L_as_N         | µAm_pH            0.2828 1/d
Ps            2.0114 mg/L_as_P         | KnT               0.6287 mg/L
HRT           8.1752 hour              | bAT               0.0356 1/d
bHT           0.2140 1/d               | f_XBA             0.9770 g_VSS·d/g_COD
f_XBH         1.6029 g_VSS·d/g_COD     | fxt               0.3900 ratio
MX_BH     16746.7439 kg_VSS            | fxm               0.5476 ratio
MX_EH     10754.7762 kg_VSS            | Rs               15.0000 days
MX_I       2519.4125 kg_VSS            | Rsm               7.3073 days
MX_V      30020.9327 kg_VSS            | MX_unaer_fxt 14870.6295 kg_TSS
MX_IO      8108.8865 kg_iSS            | Nae_fxt           0.9168 mg/L_as_N
MX_T      38129.8193 kg_TSS            | Nte_fxt           2.0200 mg/L_as_N
fi            0.7873 g_VSS/g_TSS       | Nc_fxt           39.9783 mg/L_as_N
X_V           3.5430 kg_VSS/m3         | FOn_fxt        4544.6874 kg/d_as_O
X_T           4.4999 kg_TSS/m3         | MX_BA           971.6801 kgANOVSS
f_avOHO       0.5578 g_OHO/g_VSS       | X_BA              0.1146 kgANOVSS/m3
f_atOHO       0.4392 g_OHO/g_TSS       |
FOc        7732.1832 kg/d_as_O         +=== DN process variables ==============
FOn        4648.9187 kg/d_as_O         | K1T               0.3472 mgN/mgOHOVSS
FOt       12381.1019 kg/d_as_O         | K2T               0.0735 mgN/mgOHOVSS
OUR          60.8829 mg/L·h_as_O       | K3T               0.0891 mgN/mgOHOVSS
Qr           24.8750 ML/d              | K4T               0.0000 mgN/mgOHOVSS
f_RAS         2.0000 ø                 | fSb_s             0.3928 gBSO/gBO
X_RAS         8.9999 kg/m3             | Dp1              38.5423 mgNOx/L
f_was         1.0000 ø                 | a                 5.4000 ø (=IR)
COD_balance   100    %                 | a_opt             5.2893 ø
N_balance     100    %                 | NOx_min_eff       5.4844 mg/L
Nae_balance   100    %                 | Nne               5.5618 mg/L
P_balance     100    %                 | TNe               7.5818 mg/L
                                       | FOd            2448.4749 kgO/d
                                       | FOt            9828.3957 kgO/d
                                       | OUR              79.2298 mgO/L·h
                                       | effluent_alk     69.3947 mg/L as CaCO3
                                       | TODi          17504.5859 kg/d
                                       | TODe           1349.0107 kg/d
                                       | TODw           3909.3392 kg/d
                                       | TODout        17535.2206 kg/d
                                       | TOD_balance     100.1750 %
```