What's NEW In COPSE

New Model Features:

Mantis 2 Model Updates

- global on/off switch for pH calculations
- incorporation of pH inhibition function in rate equations with a global on/off switch
- segregation of oxygen saturation and inhibition functions to better model the simultaneous nitrification-denitrification process
- use of NO_x-N as a nutrient during NH₃-N limited conditions
- free ammonia and free nitrous acid inhibition for ammonia-oxidizing and nitrite-oxidizing bacteria
- ammonia stripping
- · distinction between aerobic, anoxic and anaerobic decay of biomass
- degradation of inert organics to better model long SRT systems

☑ Continuous Flow Sequencing Reactor Model

· model systems with sequencing aeration and/or rotating aeration bridges

☑ Simplified Biological Aerated Filter (BAF) Model

• new simplified model for any systems with media, aeration and filtration

☑ High-Rate Treatment Model

empirical solids separation models for high-rate wet weather treatment

Interface and Output Enhancements:

☑ Statistical Analysis of Model Results

 automated evaluation of the model residuals and the model's goodness of fit (e.g. residuals vs. time, predicted vs. measured, mean square of residuals)

Plant-Wide Output Graph

· bar graph of concentrations throughout the length of the treatment train

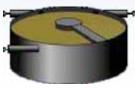
☑ Updates to Influent Advisor

new display of important stoichiometric ratios such as TKN/COD and TP/COD

www.hydromantis.com

Hydromantis Environmental Software Solutions, In 1 James Street South, Suite 1601, Hamilton, Ontario, Canada, L8P 4R5 Phone: +1





Continuous Flow Sequencing Reactor

