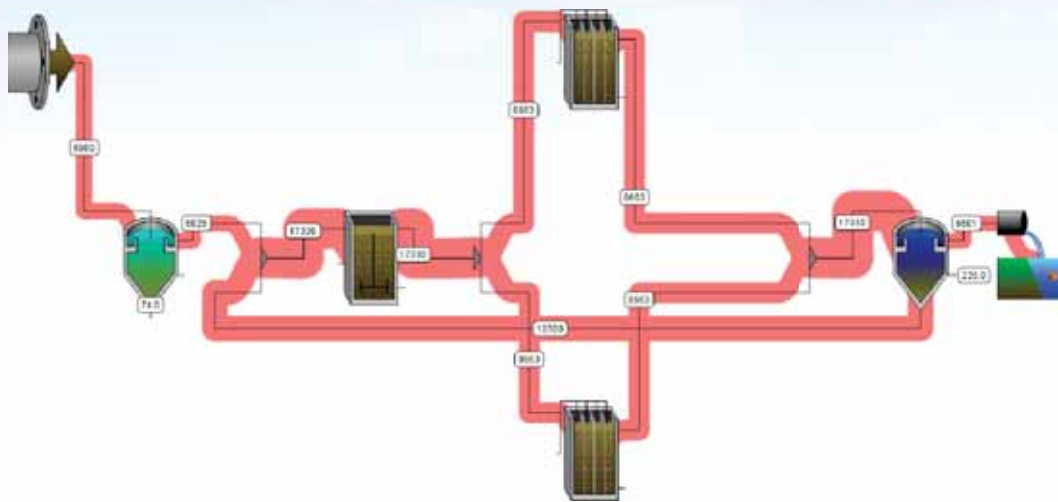


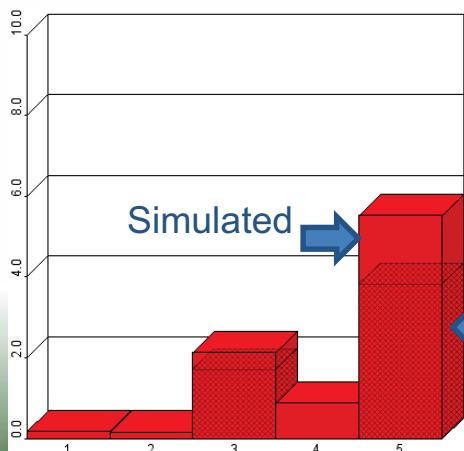
What's NEW in GPS-X™ 6.4

Interface and Output Enhancements:

Sankey Mass-Flow Diagram - Visualize the mass flows of different model variables on Sankey diagrams. The Sankey diagram can be created from GPS-X interface and printed or copied to reports.



Data Comparison Functionality – The measured and predicted values for steady state simulation now can be compared on digital outputs, tabular outputs and bar charts for easy visualization and efficient calibration.



Primary Eff. - BOD5 & COD		
[pe] total carbonaceous BOD5	120.0	126.5 mgO2/L
[pe] total COD	316.0	359.3 mgCOD/L
Primary Eff. - NH3 & TSS		
[pe] total suspended solids	118.0	139.0 mg/L
[pe] free and ionized ammonia	29.8	32.23 mgN/L

Measured Simulated

Improved Scenario Functionality –

The modified parameters within scenarios are now organized based on unit processes. The improved scenario functionality now allows you to change the value of the scenario parameter within the scenario menu rather than from menus scattered across several individual unit processes.

Unit Process
Based Classification

Section	Parameter	Value	Units
PRIMARY(pe)	<input type="checkbox"/> [pe] flocculant zone settling parameter	0.0002	L/mgTSS
	<input type="checkbox"/> [pe] hindered zone settling parameter	0.00011	L/mgTSS
	<input type="checkbox"/> [pe] feed point from bottom	3.28084	ft
INFLUENT(pi)	<input type="checkbox"/> [pi] total carbonaceous BOD5	208.0	gO2/m3
	<input type="checkbox"/> [pi] total suspended solids	344.0	g/m3
	<input type="checkbox"/> [pi] BOD5/BODultimate ratio	0.51	-
	<input type="checkbox"/> [pi] soluble substrate/BODultimate	0.5	-
	<input type="checkbox"/> [pi] nitrate and nitrite	2.0	gN/m3
	<input type="checkbox"/> [pi] part. org. N/total org. N ratio	0.33	-
	<input type="checkbox"/> [pi] N content of active biomass	0.0	gN/gCOD
	<input type="checkbox"/> [pi] N content of endogenous/inert mass	0.0	gN/gCOD
ANOXIC(ano)	<input type="checkbox"/> [ano] DO setpoint	0.0	-
	<input type="checkbox"/> [ano] standard oxygen transfer efficiency	0.0	-
	<input type="checkbox"/> [ano] ammonia (as substrate) half saturation coefficient	0.7	mgN/L
	<input type="checkbox"/> [ano] specific growth factor	0.25	-

Stream Choices

- Include:
 - INFLUENT(pi)
 - pi
 - PRIMARY(pa)
 - Internal Stream(s)
 - pe
 - s7
 - pu
 - RETURN(ani)
 - ani
 - ANOXIC(ano)
 - ano
 - anp
 - SPLIT(ano1)
 - ano1
 - ano2
 - TANK 1(aer1)
 - Internal Stream(s)
 - aer1
 - aer1

Variable Choices

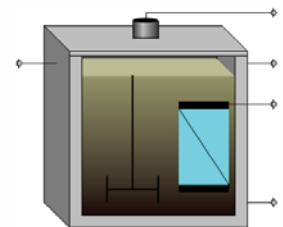
- Include:
 - Flow Rate
 - Flow
 - Solids
 - TSS
 - VSS
 - Organic Variables
 - Soluble cBOD5
 - cBOD5
 - Soluble COD
 - COD
 - Nitrogen Variables
 - Ammonia Nitrogen
 - Nitrite and Nitrate
 - Soluble TKN
 - TKN
 - TN
 - Other Variables
 - Dissolved Oxygen
 - Alkalinv

Improved Define Feature – The define functionality in GPS-X is revamped to allow the user to define the mass flows, daily averages etc. with ease for multiple streams.

Anaerobic Membrane Bioreactor - The new anaerobic MBR object combines the anaerobic digestion model with the completely-mixed MBR model to allow users to model anaerobic treatment systems with membrane filtration.

Miscellaneous Model Updates - Many small improvements and calculation corrections were also implemented to improve overall results.

Preconfigured Layouts - The preconfigured layouts have been expanded to include a wider range of COD, nitrification/denitrification, EBPR and advanced BNR plant designs. A new layout browsing feature lets users easily see the plant configuration and background information while browsing through the newly expanded collection.



+ much more.

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