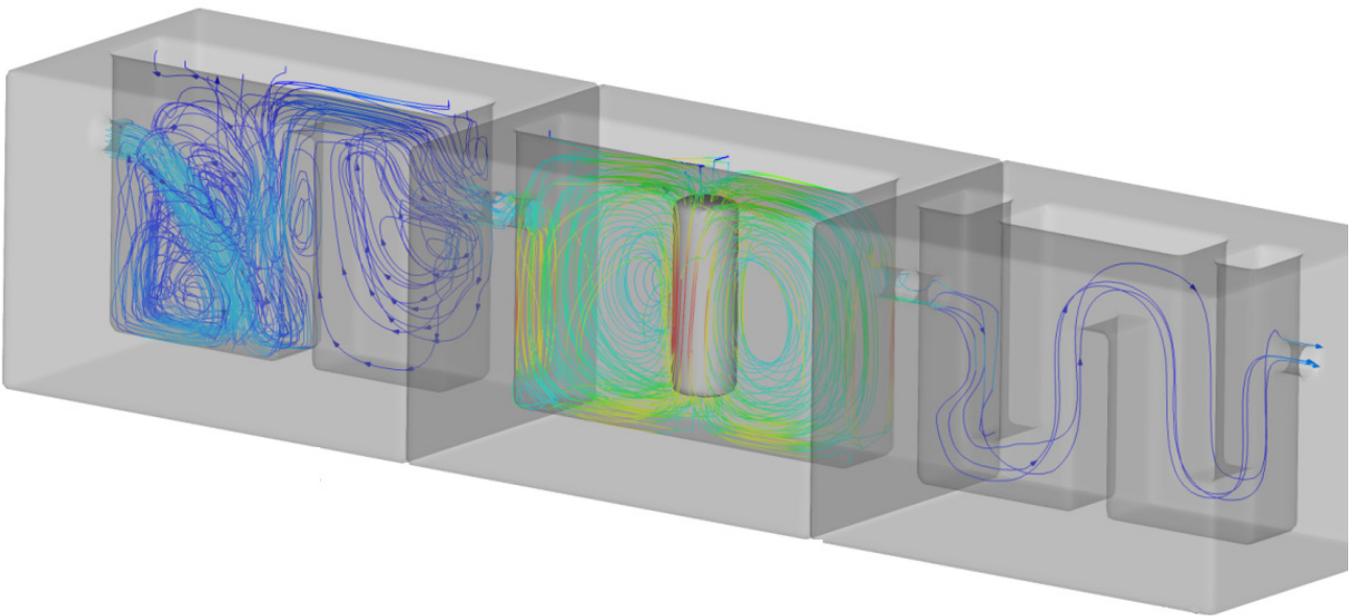


FLOW-3D[®]

HYDRO

WASTEWATER

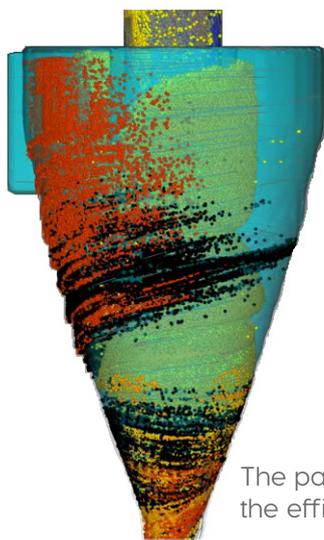


FLOW-3D HYDRO is an advanced hydraulic modeling CFD software used for the design and analysis of Wastewater Treatment Plants (WWTPs). As an industry leader in free-surface flow modeling, **FLOW-3D HYDRO** is used for hydraulic design of WWTPs to analyze 3D flow patterns and mixing efficiency, energy dissipation and flow distribution analysis. In addition to solving free-surface and pressurized flow problems, **FLOW-3D HYDRO**'s broad selection of powerful multiphysics capabilities can be applied to the analysis of unit processes within the WWPT. The combination of these multiphysics capabilities with 3D hydraulic simulation allows for advanced design and optimization of WWTPS.

FLOW-3D[®]

HYDRO

WASTEWATER



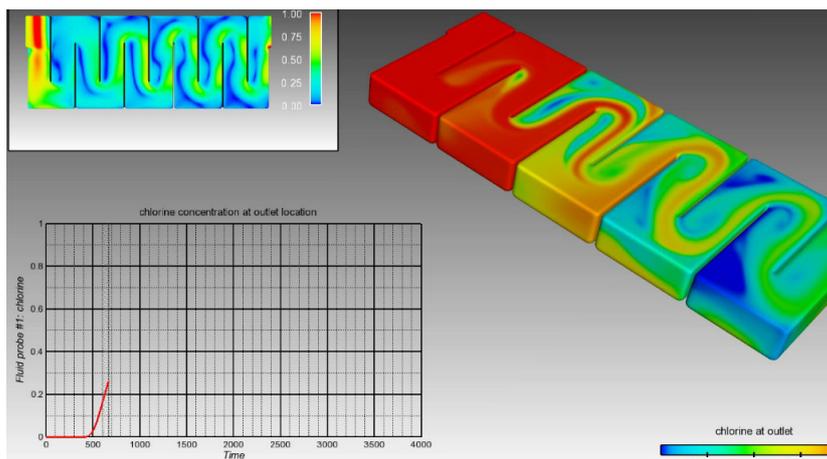
The particle tracking model can be used to evaluate the efficiency of vortex grit chambers.

APPLICATIONS

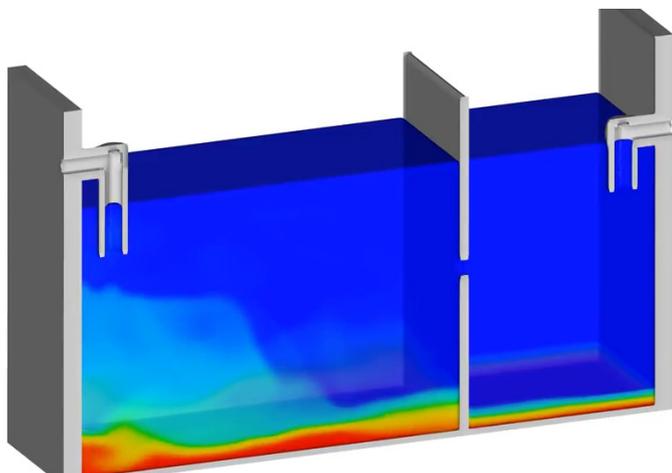
- Hydraulic control structures
- Flow splitting and distribution
- Grit removal chambers
- Primary sedimentation
- Activated sludge
- Aeration tanks
- Secondary clarifiers
- Contact tanks

MULTIPHYSICS CAPABILITIES

- Reaction kinetics
- Particle tracking
- General scalar transport
- Sludge settling
- Air entrainment
- General Moving Objects
- Porous media



FLOW-3D HYDRO allows municipal water engineers to accurately model the dynamics of contact tanks to determine mixing and hydraulic efficiencies and locate dead zones and recirculation areas.



The sludge settling model simulates sludge settlement in septic tanks, clarifiers and other sewage treatment equipment.