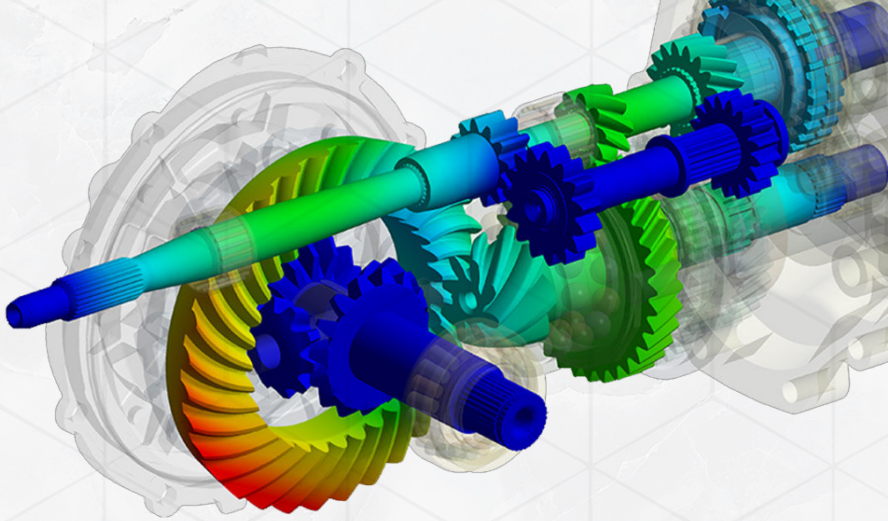

CASE STUDY

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SOFTWARE SUPPORT TRAINING CUSTOMIZATION

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FLUIDCODES

CASE STUDY

ATKINS

WATER PUMPING STATION

CHALLENGES

Computational Fluid Dynamics (CFD) modelling was carried out for a Water Pumping Station and their compartments in order to determine flow paths/flow distribution such that an economic design may be conceived and constructed.

ENGINEERING SOLUTION

CFD modelling of the reservoirs was used to optimize the proposed layout and dimensions and, so, promote water circulation within the reservoir such that stagnant water regions or isolated water pockets were eliminated or minimized.

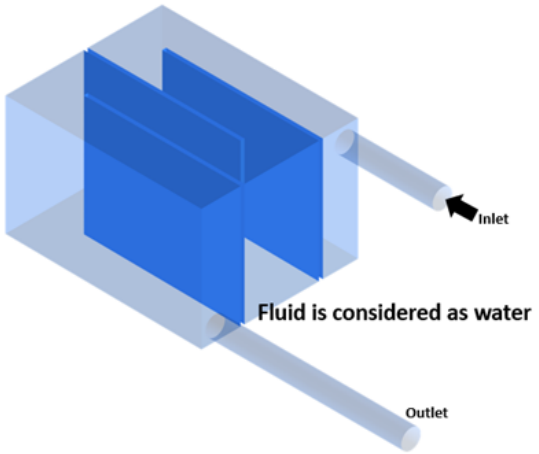

Figure 1. *3D model created in Ansys CAD tool*

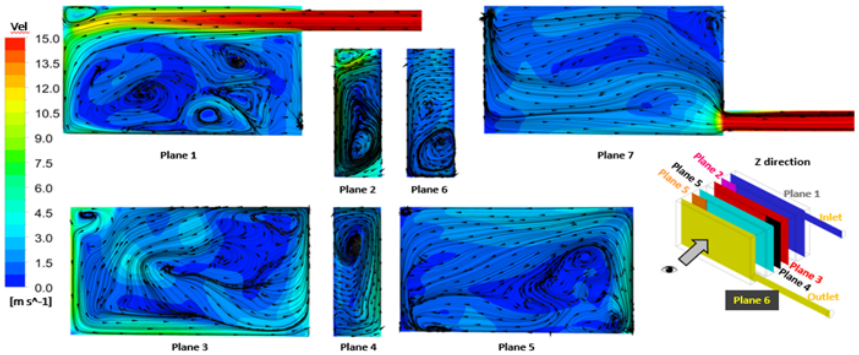

Figure 2. *Velocity & Contours on different planes in Z Direction*

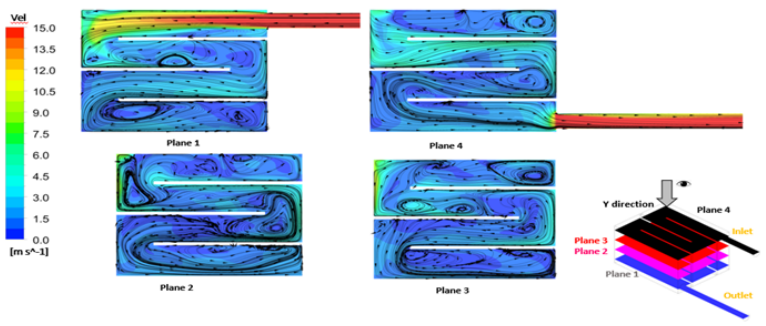

Figure 3. *Velocity & Contours on different planes in Y Direction*