



COMPUTATIONAL FLUID DYNAMICS CAPABILITY STATEMENT

COMPANY OVERVIEW

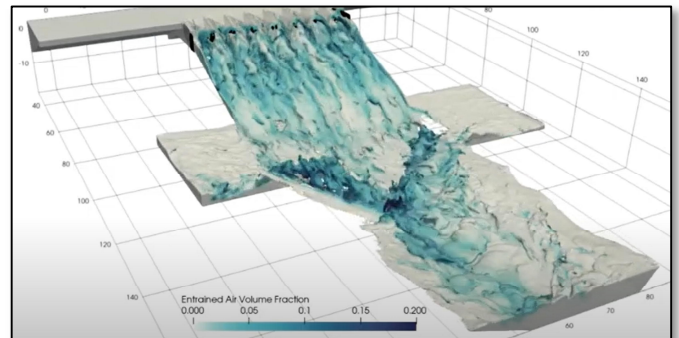
Water Modelling Solutions (WMS) is a specialist engineering consultancy firm providing high quality solutions to hydraulic design, water resources, stormwater and floodplain risk management problems. We are flexible, reliable and passionate about what we do. Our mission is to be the consultant of choice for the engineering solutions we offer and to continue building our portfolio of successful projects and satisfied clients.

Flow3D

Flow3D, our chosen modelling software, has been used worldwide for over 20 years. Nowadays, simulations have similar run times of two-dimensional models, and run efficiently without the need for super computers.

Some features of Flow3D include:

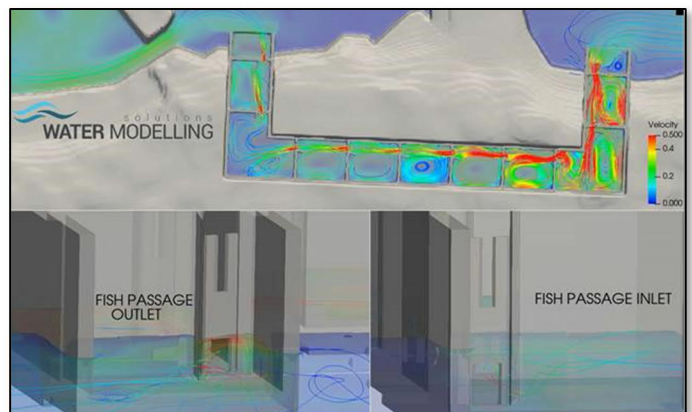
- Manageable model run times of around 24 hours
- Manageable result file sizes of around 30-50 GB
- Easy to scale size and complexity of the model, making it cost effective to apply from feasibility stage through to construction
- Well-known and highly respected among technical and non-technical audiences, with highly engaging simulation outputs that can greatly assist with consultation and approvals



PROJECT APPLICATIONS

CFD assessments are based on a 3D model from day one, avoiding the need to convert the 3D structure to a 2D format. This avoids loss of design features, and allows for the streamlined provision of meaningful design input early in the design process. Our engineers have experience applying CFD modelling to support:

- Bridge design and culvert optimisation
- Dam Spillway design
- Pumped hydro design
- Weir design
- Fish passage design
- Water treatment plant performance assessment
- Wastewater treatment plant optimisation



HOW WE WORK

At WMS, we provide fit for purpose solutions with minimal fuss. We pride ourselves on being:

- Responsive: we can receive and resolve requests rapidly;
- Informed: we seek to understand the broader project context, priorities and requirements;
- Capable and qualified: we provide high quality services you can trust;
- Safety first: we prioritise safety in design to minimise risk;
- Committed: You can rely on us to stay the course until the project is complete.

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