



About Water Solutions

Who We Are

Water Solutions Pty Ltd is a Brisbane-based engineering consultancy. We specialise in water engineering, and offer a comprehensive range of world-class engineering solutions for water management.

Our services cover all aspects of water engineering and water resources management including dam design and safety, water supply, river engineering and hydraulics, flood study and mitigation, hydrological risk assessment, water sensitive urban design, water quality control and mine water management. Since the company was founded in 1995, our dedication to delivering quality services has been well recognised by both industry and regulatory organisations.

Water Solutions brings together experience and innovation to provide a wide range of water resources and engineering consultancy services.

The Water Solutions team has a long record of successful service delivery in a range of water engineering areas supporting: Mining Industry, Urban Water Management, Local and State Government, Expert Advice.

Key areas of specialist services include:

- Engineering investigation, design and advice
- Technical reporting
- Managing multi-disciplinary project teams
- Monitoring and instrumentation
- Regular consultation with stakeholders
- Laboratory hydraulic testing
- Strategic and master planning
- Research and development
- Engineering software design and development
- Technical training for all industry-leading software supplied as part of a comprehensive solution
- Online reporting – a transparent reporting system that allows clients to access information about their projects as soon as it's available.

Water Solutions delivers award-winning, innovative results. Our multi-disciplinary team goes beyond the industry “toolkit” to correctly identify needs and provide appropriate results.

Our contribution to the capabilities of water resource industries has built our reputation as providers of leading water management solutions.

What We Do



Water Solutions
Certainty in Water





A General Purpose Operational Simulation Model for Water Resources Systems

OPSIM has been designed to be a flexible analysis tool and may be used for a variety of applications. The software includes extensive data management tools for risk management assessments, for both design and forecasting applications. It has been specifically tailored for mining/industrial applications, but can also be used for other applications including: water supply reservoir yield; assessment of multiple water supply reservoir operating rules and strategies; and water resources planning. OPSIM™ operates by dynamically simulating the physical processes within a water circuit on a daily or even hourly time-step basis. These processes include the generation of water, its collection, storage, distribution, dissipation and release. Full account is taken of all water within the system and any dissolved salts that it carries.



RocLoc Waterway Stabilization System

A Novel Technique for Stabilizing Steep Gradient Waterways

RocLoc is a waterway diversion system that provides engineers with a solution to the engineering and environmental challenges presented in the design of steep gradient waterways over erodable material (e.g. spoil). It is considered an innovation in engineering and won the 2003 Excellence Award in the Category of Research and Development, Engineers Australia, Queensland Division.

**Our
Products**

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