Australasian Groundwater & Environmental Consultants

Expert Advisory

About AGE Consultants

We're Australia's groundwater specialists, providing groundwater and environmental advisory across Australasia for more than 25 years. We have a depth of experience and technical excellence borne out of more than 2,500 projects across major industries, agriculture, government and communities in Australasia and beyond.

We specialise in end-to-end groundwater services, from field work and modelling to analysis and reports, to expert advisory and peer review. That means we understand the commercial, environmental, government and community challenges you face in our ever-changing world.

Impartial, specialist advice

The complexity of groundwater systems and their potential impact is one of the most significant challenges faced by projects in a range of sectors such as mining and quarrying, petroleum, land and property development, and water supply. Groundwater has the potential to become a controversial component of your project, one with competing demands across environmental regulatory requirements, commercial considerations and stakeholder and community concerns.

It's important to be able to rely on qualified, independent groundwater experts to help you solve unusually complex problems, review research reports and complex groundwater models, and support you through any litigation or conflict resolution that may arise. Crucially, an expert partner by your side from the beginning can provide advice to ensure your project is steered in the right direction from design and planning through to development and execution.

Our expertise

With a legacy of project experience and local knowledge across Australia, we're frequently called upon to provide expert advisory for clients, regulators and peers.

We support clients on joint expert reports, as expert witnesses in court, in technical review panels or in peer-review and gap analysis of groundwater models and reports. With our significant track record, our clients have the confidence to call upon us in an advisory capacity to support the integrity of our work and assumptions in any legal context if required.

Our principals have all completed a rigorous process to become highly skilled, industry-leading experts. Their expertise in particular fields enables us to provide our clients a breadth of advice across niche specialisations. We work collaboratively, enabling each project to have a team of peer reviewers to study various parts of a project and ensure comprehensive, expert oversight.

With unrivalled experience and academic credentials, we have a wealth of knowledge to draw upon and the expertise to address any groundwater problem

Our services

Expert witness

Independence and impartiality is integral to our work. We support a range of clients in litigation and conflict resolution, particularly for environmental impact assessments for major developments. Our advice extends to navigating the legislation around their works and preparing detailed reports according to industry and government guidelines. Our team has experience in preparing joint expert reports and appearing in court as expert witnesses.

Technical review panels

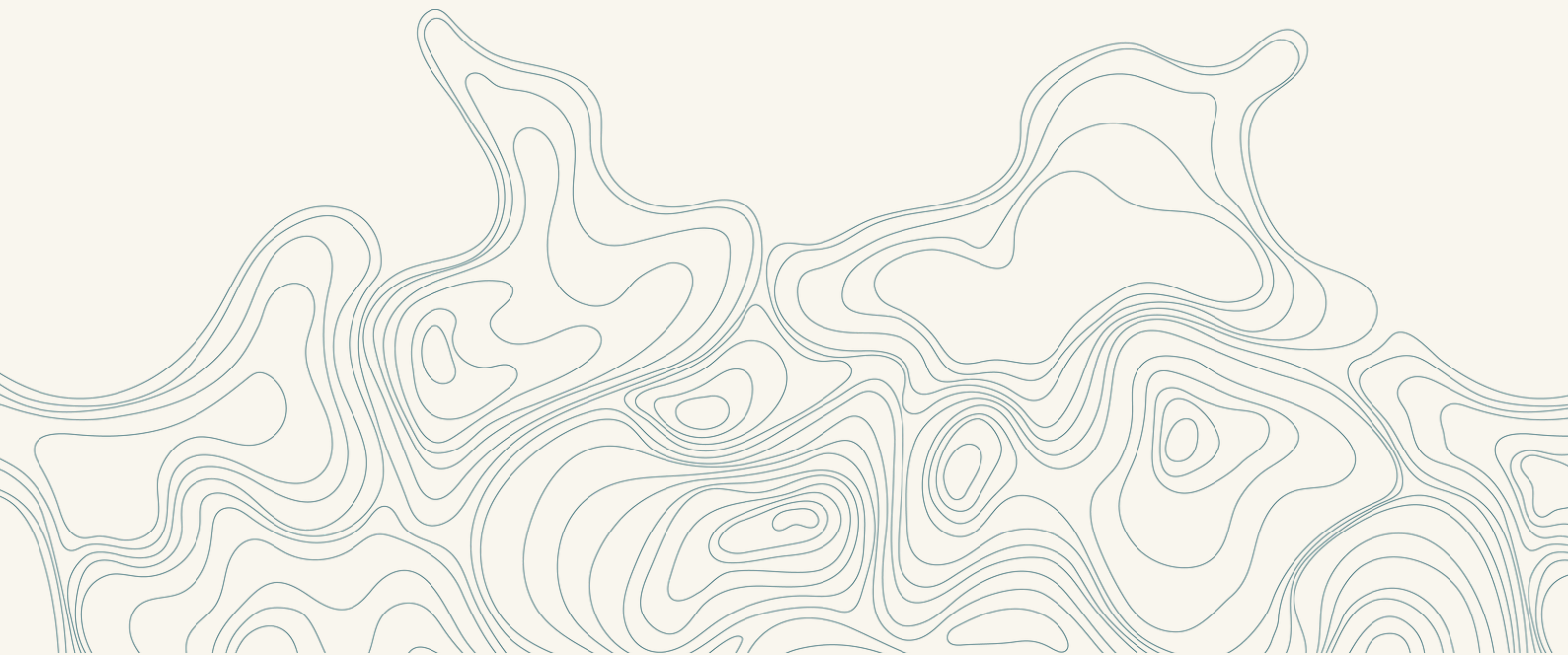
We are passionate about groundwater at AGE and are continually seeking new ways of thinking and modelling due to the ever-evolving environment in which we work. We also aim to raise the standard of investigations and build awareness and understanding of groundwater. We continually invest in our people and enhance our expertise, placing significant importance on the professional development of staff to fulfil the roles of expert advisers and technical reviewers. Our reputation as independent, impartial and trusted advisers has allowed us to participate in a range of technical review panels.

Our experience has given us significant opportunity to speak with all levels of stakeholders within businesses, government and communities. We know what it takes for effective stakeholder communication. We simplify complex issues and communicate to different audiences in clear and easy-to-understand language. We believe this is a crucial element of any technical review.

Peer review

Our reputation for delivering high-quality outputs with impeccable attention to detail has given us the opportunity to conduct independent peer reviews and gap analysis of conceptual and numerical groundwater models and reports for other consultants within the industry. We follow Australian groundwater modelling guidelines and best practice in our own projects and we apply this expertise and lens of knowledge to our independent reviews.

As the largest consulting modelling team in Australia, we're known as being early adopters of new and emerging modelling techniques. Part of understanding and working on the frontier of technology means our team often works in partnership with leading academics in our field. We bring this wealth of knowledge and expertise to our review of peer-developed numerical groundwater models.



Our experience

Our reputation of being an independent company with an impartiality to our work has allowed us to support clients in a wide range of sectors, including:

- *Mining and quarrying*
- *Petroleum*
- *Infrastructure*
- *Land and property development*
- *Water supply*



Our projects

We conduct peer reviews for a range of purposes, including internal and regulatory, for confidential and public audiences across mining (coal and metalliferous), infrastructure, land developments and contaminant investigations.

Expert witness

- Oakey PFAS Class Action
- New Acland Stage 3 Land Court
- Darwen vs Pacific Fisheries land court
- Ipswich Landfill court proceedings

Due diligence

- Botswana copper-silver mine

Peer reviews

- Crinum underground coal mine
- Border Rivers allocation model
- New Acland Stage 3
- Baralaba South coal mine
- Yarwun residue management area
- Twin Waters West development
- Wyaralong Dam EIS
- Traveston Dam EIS
- The Range Coal Mine
- Narrabri gas project
- Condamine Alluvium groundwater model
- Central Queensland Coal groundwater impact assessment
- Far North Prescribed Wells Area groundwater model
- BHP groundwater modelling strategy

Our team

Andrew Durick

Director | Senior Principal Groundwater Modeller

Andrew has over 25 years' experience in groundwater modelling with intimate working knowledge of MODFLOW (industry standard modelling code) and significant experience in both the public and private sectors. He specialises in conceptualisation and modelling of complex groundwater systems, implementation of complex mine plans and third party review of models.

Keith Phillipson

Senior Principal Hydrogeologist

Keith specialises in the use of groundwater models to assess and manage the impacts of a broad range of developments on groundwater and surface water resources, with more than 25 years' experience working in jurisdictions including Queensland, New South Wales, Victoria and Europe. In particular, Keith has undertaken, overseen and peer reviewed a wide variety of modelling studies focused on assessing the cumulative impacts of large-scale water supply, coal mining and coal seam gas developments.



If you're looking for an independent, trusted adviser in groundwater, get in touch with us.

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