



URBAN DEVELOPMENT AND WATER MANAGEMENT

Planning, development and management of water infrastructure, ranging from individual farm systems to expansive regional networks

Dams are the heart of any irrigation and water resource development. As specialists in dam design, engineering and construction, Pinion Advisory is passionate about transforming concepts into practical solutions. Throughout the entire project lifecycle, Pinion Advisory maintains active engagement with the relevant stakeholders, be they farmers, corporations, or government authorities, ensuring seamless collaboration with a holistic planning approach.

What sets Pinion Advisory apart is the experience within its team of highly skilled professionals. Pinion Advisory's dam design team includes Chartered Professional Engineers, complimented by other associated skilled professionals. Team members work across Australia and are registered as professional practitioners in Queensland and Victoria, in line with regulatory requirements of those states.

Pinion Advisory's approach centres around client needs, emphasising practical, fit-for-purpose engineering while integrating sustainability into our designs. Pinion Advisory has extensive experience with plastic and clay-lined dams within the northern South Australian region.

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Auburn Terra Rossa dam, located in Auburn, 100kms north of Adelaide was constructed in 2019. The 500ML dam site was selected based on a comparison of cost associated with pumping power and risk associated with construction namely, rock and high-water table levels. Geotechnical investigations at the final site location quantified the risk of rock, and this was included in construction cost estimates. The successful contractors included for blasting, and the project was completed on budget and on schedule.



Auburn Terra Rossa dam

Roseworthy Township Expansion, located 56 kms north of Adelaide, required concepts for wetlands and stormwater harvesting basins. Guided by high-level runoff modelling, Pinion Advisory developed footprints, pump-out rates to maintain water levels in line with Water Sensitive SA guidelines for urban design. Pinion Advisory also provided recommendation to optimise wetland ecology, habitat and vegetation to enhance the urban benefits of these wetlands for the new development.



Existing stormwater basin in Roseworthy

SERVICES

- Feasibility and planning
- Engineering design
- Construction supervision and contract management
- Dam safety management
- Urban design

BENEFITS TO YOUR BUSINESS

- Pinion Advisory team consist of dam engineers, irrigation specialists, and environmental services, working together to ensure that the design aligns perfectly with its intended purpose
- Expertise extends from project conception through construction to ongoing operations
- Deliver practical and sustainable solutions tailored to meet our clients' specific needs
- Optimisation of water management solutions with consideration to capital and operational costs
- Understanding of horticulture and crop agronomy to design efficient irrigation systems

WHY WORK WITH US?

Pinion Advisory is focused on helping you with water infrastructure development. We strive to understand your needs and offer unbiased advice that benefits your business. Our integrated services make it easy for us to resource projects and provide access to knowledge and expertise from multiple fields.

Our solutions are designed to be technically sound, financially achievable, and practical. We work with clients all across Australia, and our international connections provide access to new technologies, innovations, and additional resources.

Our team consists of technically skilled professionals, including industry leaders in irrigation design, water infrastructure development, and environmental sustainability. We are committed to helping you achieve your goals and providing you with the best possible service.

For more information
contact us on **1300 746 466**
or visit **pinionadvisory.com**

