

CAPABILITY STATEMENT

John Gransbury



Technical Director Irrigation and Water Engineering

CONTACT DETAILS

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QUALIFICATIONS

- Bachelor of Engineering (Civil)
- Chartered Professional Engineer (Civil)
- Certified Irrigation Designer (Agricultural Drip/Micro)
- Certified Irrigation Agronomist

PROFESSIONAL ASSOCIATIONS

- Institution of Engineers Australia
- Irrigation Association of Australia
- National Engineers Register, RPEQ

COMMITTEES OR BOARDS

- President of the Australian Chapter of the American Society of Irrigation Consultants

John has specialised in irrigation and water engineering since graduating as a Civil Engineer from University of Adelaide over 40 years ago.

In the first part of his career, John worked for equipment manufacturers, designing and supervising construction of irrigation projects; for three years in the Middle East and then five years in Australia and Asia.

In 1986, after recognising the growing demand for independent design services, he started HydroPlan's office in Adelaide, which grew across Australia and overseas to one of the world's largest specialists before merging with Pinion Advisory in 2022.

His reputation is built on practical and outside-the-square solutions that are cost-effective, efficient and robust. His technical oversight was often included in more than 12,000 projects and 30 countries during his career.

Areas of expertise

- Irrigation system design for pop-up, drip, micro and pivot
- Pump stations, fertigation, filtration, specialty valving
- Automatic control and monitoring systems
- Expert reports
- Re-use schemes
- Feasibility studies, specifications, contract administration
- Managed Aquifer Recharge
- System analysis and troubleshooting

Professional experience

- Pinion Advisory – Partner & Technical Director, Irrigation and Water Engineering, 2022-present.
- Pinion Advisory (HydroPlan) – Managing Director, business owner and Technical Director, 1986-2021

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Relevant projects

PROJECT	ROLE	CLIENT	YEAR/S DELIVERED
Willunga Basin Scheme	Grower owned and self-funded wastewater reuse scheme began with 17 outlets and has grown every year. Purchased by coNEXA in 2013, expansion for vineyards in the McLaren Vale Wine Region south of Adelaide SA, continuing from 160 to over 250 customers, 80ML/d and 7,000ML/a. Roles included design engineer, project manager, client engineer and operator during M&A transition and major refurbishment	Willunga Basin Water	1998 and ongoing
Gawler Water Reuse Scheme	Local/Federal Govt funded \$22m PPP scheme taking wastewater and stormwater to the Western Barossa. Design engineer, construction manager (18 months) then operator for 18 months. Includes 43km pipes, 2 dams (470 & 680ML), 600ML managed aquifer recharge, and 5 pump stations to 52ML/d	Bunyip Water	2015 and ongoing
Integrated Horticultural Supply Wah Wah Stock & Domestic pipeline scheme	Designs converting six horticultural districts from channels to 'on demand' pressurised distribution system with flows to 1000L/s. Water savings 20% Option analysis and concept design for 400km stock and domestic pipeline to 185,000ha to replace channels in the Wah Wah district. Water savings 95%	Murrumbidgee Irrigation	2010-2016
Aldinga Managed Aquifer Recharge	Following preliminary trials in 2001, in 2009-10 designed, project-managed and operated a 3-well 100ML MAR/ASR scheme at Aldinga, for SA Water and WBW using treated urban wastewater	SA Water & Willunga Basin Water	2001 and 2009-2010
Network optimisation	Foundation Partner and Technical Consultant to Optimatics (now owned by Suez), pioneers of water system design techniques using genetic algorithms, for many irrigation and rural water supply projects, including Wimmera Mallee Water, East Lodden (GMW), Anabranche, Loxton Irrigation District (4000L/s) and Creeks Pipeline (1500L/s and 80km)	Optimatics	1996-2016

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Narromine Stock & Domestic Pipeline	Design, procurement and inspection services of federally-funded \$8.3m pipeline traversing 186km pipeline for 60 farms. Ahead of schedule and under budget. Better featured, but 20% less expenditure compared to a similar D&C project nearby	Narromine Board of Irrigation Management	2008
Abu Hamad, Sudan	Scoping study for 100,000ha green field development including infrastructure sharing with neighbouring 40,000ha farm. Feasibility team member to develop a detailed master plan for 980 pivots, 85MW and 4,000ML/d pumping capacity	Coffey International for Hassad Food	2011
Eastern Grampians Rural Pipeline	Design and documentation for 1400km new pipeline to 1,500 rural properties, 13 towns and Ararat Rural City covering 330,000ha. Optimisation analysis to include existing assets and water sources to best advantage	Cape for GWMWater	2019 and ongoing
Wamuran Irrigation Scheme	Solution Architect for large reuse scheme delivering high quality water for turf, berry and mixed enterprise irrigation farms within 22km. Win-win-win enables urban growth and expansion above the 2,600ML first stage from Caboolture South Sewage Treatment Plant, improved environment and waterways, and water security for the landowners	Pensar for Unity Water	2018 and ongoing