

PAUL GAUGHAN



Education and Professional Affiliations

- ▶ BSc Hons Mechanical Engineering, University of Bradford (UK) 1982
- ▶ Institution of Engineers, Australia (CP Eng. MIEAust)
- ▶ Registered Professional Engineer, National Professional Engineers Register (NPER3)
- ▶ Australian Water Association

Professional History

- Since 2008** **Read Gaughan Pty Ltd**
Principal, offering consulting/contract services for water/wastewater projects (Australia, NZ, Singapore)
- 1997 –08** **CH2M HILL Australia Pty Ltd**
Regional Operations Manager,
Senior Project Manager (Australia, NZ Singapore)
- 1992 -97** **Kinhill, Brown & Root**
Senior Project Manager (Australia)
- 1985 – 92** **Biwater Treatment Ltd**
Chief Mechanical Engineer (UK)
- 1982 - 85** **IMI Rycroft Ltd**
Senior Design Engineer (UK)

Experience Summary

Paul Gaughan has more than 25 years experience in the water industry, including project management, engineering and design management, and the design, procurement, construction and commissioning of dual membrane (MF/RO) water reuse/reclamation plants, desalination plants, MBR plants, water treatment plants, wastewater treatment plants, pumping stations and associated equipment and water conveyance systems.

He has been involved in water and wastewater treatment projects from design through commissioning in Australia, Singapore, Hong Kong, New Zealand and the UK. This experience includes demanding and accelerated delivery programs extending across many types of contract delivery models including, Alliance; Build Own Operate (BOO); Design and Construct (D&C); and Design, Build, Operate (DBO).



In June 2008, Paul and his business partner Nick Read formed Read Gaughan Pty Ltd (RGPL) to provide consulting and contracting services for industrial, water and wastewater projects.

Projects undertaken by Paul and RGPL include a role in design management at the Victorian Desalination Project as coordinator of design reviews (Client – PBBeca JV), project management for a series of upgrade projects at the Prospect Water Filtration Plant (Client – Degremont), a role as Design Director for elements of the Adelaide Desalination Project, a \$1.3 billion, 150ML/d seawater desalination plant (Client - Abigroup), and as Alliance Project Manager for the \$150million ACTEW Water Purification Scheme Alliance, responsible for delivering the TOC and the project to successfully meet the expectations of all parties.

Paul spent ten years with CH2M HILL between 1998 and 2008. He was involved with the delivery of many of the firm's DB and DBO projects, firstly as a project manager and technical resource, and latterly in a senior management capacity as the Water Business Group Project Delivery/Operations Manager for the Asia Pacific Region. In this role he has been an active member of Alliance Leadership teams and/or JV committees for a number of capital projects.

Paul had extensive involvement in Singapore's pioneering NEWater reuse program between 1999 and 2003 in a number of roles, including that of project manager responsible for the delivery of the demonstration plant at Bedok and the first three production plants at Bedok, Kranji and Seletar. Other major project roles during this period included design manager for the \$400M Project Manukau DBO project for the upgrade of Auckland's Mangere STP, lead engineer and commissioning manager with the Bondi STP Reliability, Improvement and Modernisation Program (RIAMP), commissioning manager for 14 ML/day dual membrane Water Reclamation Plant at Luggage Point WWTP, engineering manager and subsequently project services manager for the \$200 million Gippsland Water Factory Alliance.

Paul's history with the water industry extends back to previous employment with Kinhill, Brown & Root in Australia and Biwater Treatment in the UK, with a solid grounding in projects of all types.



Project Experience

Water Treatment and Supply

- ▶ Victorian Desalination Project (Victoria, Australia) – 3D Model Review Manager for \$3B, 150GL/a desalination project - review, planning, managing and facilitating reviews from multiple stakeholders.
- ▶ Prospect WFP Modifications Projects – Project Manager – Reduced Flows Project: implementation of modifications to key chemical dosing systems.
- ▶ Adelaide Desalination Plant (ADP) – Acting Design Director – Balance of Works (BoW)/ Engineering Manager – M&E process plant: \$1.3 billion, 150ML/d seawater desalination plant.
- ▶ Woronora Water Filtration Plant - Senior Mechanical Process Engineer for 166 ML/d water filtration plant, BOO project.
- ▶ Illawarra Water Filtration Plant – Process Mechanical Lead for a 216 ML/d WFP BOO project - includes 4 m diameter x 1.7 km tunnel and several kilometres of raw water pipeline.
- ▶ Everton Water Treatment Works, Anglian Water: design and supervision of 14 ML/d iron removal plant.
- ▶ Sweetloves Water Treatment Plant, North West Water: design and supervision for upgrade and extensions to provide a plant capacity of 40 ML/d.
- ▶ IMI Rycroft Ltd, (UK): Senior Design Engineer with responsibility for the detail design, documentation, manufacture and commissioning of industrial water systems, pressure vessels and heat exchanger systems.

Municipal Wastewater Treatment & Re-use

- ▶ Water Purification Scheme Alliance (WPSA) – Alliance Project Manager: 8.3ML/d Water Purification / Salt Reduction Plant -softener, MF, RO, brine concentration and evaporation.
- ▶ Gippsland Water Factory Alliance (GWFA) –Project Services Manager: Responsible for overall commercial operation and project delivery controls for the Alliance,
- ▶ Gippsland Water Factory Alliance (GWFA) – Engineering Manager: from TOC phase through to construction.
- ▶ Bondi STP RIAMP Alliance - Commissioning Manager and Area Lead Engineer: for the upgrade of Bondi STP screening, grit handling and processing, sludge collection and transfer, hydraulic modifications and complete electrical and SCADA upgrade.
- ▶ Ulu Pandan NEWater Plant (Singapore) Project Manager: Feasibility study for Ulu Pandan NEWater Plant.



- ▶ Seletar NEWater Plant (Singapore) – Project Manager: for design and construction supervision of a 24 ML/d dual membrane water reclamation plant and NEWater pipeline.
- ▶ Bedok and Kranji NEWater Plants (Singapore) – Project Manager design and supervision for 88 ML/d (Bedok) and 72 ML/d (Kranji), NEWater plants and Visitor's Centre.
- ▶ Luggage Point WRP (Brisbane) – Commissioning Manager for the testing, commissioning, proving and training for 14 ML/day dual membrane WRP.
- ▶ Bedok Water Reclamation Demonstration Plant (Singapore) – Construction Manager & Superintending Officer for 10 ML/day dual membrane WRP.
- ▶ Cronulla STP (Sydney, Australia) - Technical Adviser and Independent Reviewer: for project delivery phase of 180 ML/day plant upgrade.
- ▶ Project Manukau (Auckland NZ) Design Manager \$400 D&C for upgrade of the 300 ML/d Mangere Wastewater Treatment Plant
- ▶ Quakers Hill Water Factory- Design Manager: tender design for 4ML/d Potable Water Reuse Demonstration Plant..
- ▶ Cronulla STP (D&C Tender) – Project Design Lead: tender design for tertiary upgrade of the Cronulla Sewage Treatment Plant.
- ▶ Quakers Hill STP - Bubble Licence Project – Design Manager for the upgrade of the inlet works, tertiary filtration and polymer dosing systems at Quakers Hill STP.
- ▶ Seletar Sewage Treatment Works - Senior Mechanical Process Engineer and Design Co-ordinator: For the detail design of the sludge processing and digestion complex .
- ▶ North Head STP Capital Works Team: mechanical engineering and sewage treatment designs on a variety of projects undertaken for the Reliability Upgrade Program.
- ▶ Flag Fen Sewage Treatment Plant, Anglian Water: design, supervision and commissioning of 150 ML/d turnkey facility for Peterborough.
- ▶ Whitlingham Sewage Treatment Plant, Anglian Water: design, supervision and commissioning of 200 ML/d turnkey facility to serve the city of Norwich.

Pumping and Transmission Systems

- ▶ SewerFix Alliance West Ryde Pumping Station (Sydney) – Project Manager upgrade of Sydney's major water pumping station at West Ryde for the SewerFix Alliance team.
- ▶ Prospect Water Pumping Station - Lead Mechanical Engineer: For the design and construction of 600 ML/d pumping station.
- ▶ Illawarra Bulk Water Supply System Project – Mechanical Design Lead: For the upgrade of the Illawarra Bulk Water Supply System Project.