

STAFF RESUME: EN037

Career Summary

Hydrogeologist with more than 45 years' experience - water resource management, conjunctive use, artificial groundwater recharge and storage, groundwater (and water) quality, waste management, landfill, landfill gas (LFG), environmental management and protection, life-cycle analysis (LCA). Also - non-hydrogeological - water and wastewater treatment, sludge management, etc.

Key Areas of Expertise

- Waste management
- Landfill engineering
- Recycling structures
- Life-cycle analysis
- Water and water supply
- Water and wastewater treatment
- Managed aquifer recharge (MAR)
- Full scale systems analysis and database design
- Contaminated land and groundwater assessment
- Project management
- Data analysis
- Technical report writing (analytical and interpretative)

Professional History

JBJ – Environment, UK, Southeast Asia, Australia (May 2011 – To date) *Independent Consultant*

- Environmental consultancy on landfill, water, groundwater and waste related issues. Clients include IWAP, Panya Consultants Co Ltd, PT Putau Bawah, Water Resource Engineering Co Ltd, SIE (Success Inter Edtrain) Co

URS Australia Pty Ltd, Melbourne (2008-2011) *Senior Principal, Groundwater and Waste*

- Advice to the Environment Protection Authority (EPA) of Victoria on landfill gas issues arising from sub-surface migration beneath a housing estate near a landfill (confidential project)
- Member of an industrial team representing the Australian waste management industry on landfill emission calculations and the impacts of the proposed Australian carbon trading scheme, in discussion / negotiation with the federal government
- City of Kingston, potential for redevelopment of a closed landfill
- Review of potential impacts on groundwater of a mine tailings storage dam in central Victoria
- Review of the design, operation and formal reporting of a treatment plant for landfill leachate, Melbourne
- Detailed review of all potential environmental issues with respect to the general and long-term management of major landfill facilities
- Risk assessment and review of landfill gas and all other environmental segments with the potential to be affected by individual landfills or groups of landfills
- Review of Hazardous Waste Regulations for EPA Victoria
- Contaminated land investigations and remediation projects for clients in Victoria
- Landfill and combined waste management facility design, including leachate treatment, etc, for multi-national companies with operations in Papua New Guinea

JBJ Environment, Thailand / UK (1999-2008)

Independent Consultant

- Environmental consultancy on water, groundwater and waste related issues for many clients including AEA Technology, Babbie, Beer Lao, Centre for Ecology and Hydrology, Coca Cola, Onyx-Collex, Peter Brett Associates, CJ Pryor Ltd, Shanks Group, Thames Water Utilities UEE, Viridor and Water Resource Engineering. Assignments included developing expert witness arguments on waste management and environmental issues, reviewing hydrogeological reports / concepts, developing and structuring research programmes

Shanks & McEwan (Southern Waste Services Ltd), UK (1992-1999)

Chief Hydrogeologist / Technical Development Manager

- Managing environmental and hydrogeological aspects of the solid waste business (£0.5Mpa)
- Developing and managing a major and novel leachate treatment plant project (£5M)
- Managing the solid waste R&D programme (£0.25Mpa)
- Developing the on-site effluent treatment business
- Advising on other business developments, i.e. contaminated land and environmental risk
- Developed complex spec for leachate treatment plant, educated potential bidders so that tenders were appropriate to technical needs
- Identified substantial business opportunities worth up to £50Mpa
- Patent application lodged for a process for recycling aluminium dross

JBJ Associates, UK (1990-1991)

Independent Consultant

- General and marketing management of companies specialising in water, waste water and sludge treatment including R&D and the provision of demonstration facilities. Clients included Yorkshire Water, Paramount Communications, Deltcrest Engineering and Inpipe AB
- Developed a full, in-house, engineering design capability; improved plant performance, negotiated the first contract for full-scale plant (£0.5M) and initiated negotiations for two other plants for potable water treatment (£2M)

Crossflow Microfiltration, UK (1986-1990)

Marketing (and General) Manager

- Responsible for devising and implementing company strategy in marketing, sales, joint ventures, technical trials, research, external communications, etc
- Developed company (from scratch) to a viable unit (fifteen staff), developed trial units, improved the microfiltration technology, negotiated first sales ((£0.25M) into a wary market, setup three joint ventures based on significant product variants – biological effluent treatment, continuous ion exchange and sludge dewatering, co-inventor of a continuous ion exchange process

Water Research Centre (WRc), Medmenham, UK (1974 -1986)

Manager (HQ) / Research Programme Planner / Publications Manager / Commercial Manager / House Manager / Research Hydrogeologist

- Devised and implemented a new marketing strategy for main research programme
- Liaised with water industry at senior (board) level across the UK
- Instigated transition to a five year rolling programme with identified targets related to both client-perceived and research-based issues and strategic areas
- Strengthened liaison and links between the WRc and its water industry members

Water Conservation & Irrigation Commission, Sydney, Australia (1970 -1974)

Hydrogeologist and Systems Analyst

- Designed, installed and managed the commission's hydrogeological and licensing data base
- Represented NSW on inter-state working parties
- Managed water resource studies throughout the Murrumbidgee Valley

Water Resources Board, Reading, UK (1968 -1970)

Hydrogeologist

- Assigned various research and investigation tasks in relation to the Lambourn Valley Pilot Scheme and the London Basin, Vale of Pickering and Wash Barrage studies

Education

- B.Sc. (Hons), Geology, University of Durham, UK

Accreditations and Certifications

- European Geologist, Chartered Geologist, Fellow of the Geological Society (EurGeol, CGeol, FGS)
- Member of the International Association of Hydrogeologists
- Member of the Chartered Institution of Wastes Management (MCIWM) and millennium merit award winner (2000)

Academic and Public Positions

- WPT Editor for International Water Association Publishing (IWAP) (2013 to date)
- Past Honorary Research Fellow, Department of Mineralogy, Natural History Museum (1999 – 2007)
- Past Visiting Professor – Royal Holloway, University of London; and University of Paisley; and University of Bournemouth (1994 – 2007)
- Research Scholar (2001), Department of Civil and Environmental Engineering, University of Melbourne
- Chairman, West Area Environment Group (AEG), Thames Region, Environment Agency (1996 – 2001)
- Member, Thames NRA/Environment Agency – Regional Flood Defence Committee (MAFF appointee) (1990 – 2000)
- Chairman – Soil and Groundwater Technology Association (SAGTA) (1998 – 1999)
- Whitaker Medallist, Institution of Water and Environmental Management (1981)