

## STAFF RESUME: EN053

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### **Career Summary**

Environmental Scientist with 18 years of experience in the environmental consulting industry. Specialises in landfill regulatory compliance, landfill rehabilitation, environmental auditing, hydrogeology and contaminated site assessment. Over her career she has worked on a wide range of projects including groundwater feasibility studies for mine sites, industrial land redevelopments, groundwater resource appraisals and environmental audits of operating and closed landfills.

She has a particular interest in landfill design and compliance and currently provides guest lectures and laboratory based practical classes to students studying Environmental Engineering at Deakin University.

### **Key Areas of Expertise**

- Landfill regulatory compliance
- Hydrogeological assessments
- Environmental audit support
- Landfill gas risk assessments
- Contaminated site assessment and remediation
- Field-based skills including drilling supervision, rock core and soil logging, groundwater and surface water sampling and aquifer testing

### **Professional History**

#### ***Independent Consultant, Geelong, Australia (2017 – to date)***

*Senior Associate Environmental Scientist / Hydrogeologist*

- Technical reporting including landfill gas management plans, landfill gas risk assessments, Section 53V landfill audit reports and environmental site assessments

#### ***School of Engineering, Deakin University, Geelong, Australia (2017 – to date)***

*Senior Technical Officer, Environmental Engineering*

- Provide high level technical expertise and laboratory skills in the area of Environmental Engineering to academic staff and students of the university
- Develop and teach practical classes (field and laboratory based) for students completing a Bachelor of Environmental Engineering and Bachelor of Civil Engineering
- Provide guest lectures and seminars related to landfill design and waste management.
- Laboratory management including operation and maintenance of high precision analytical instruments including ICP-OES, AAS and GC

#### ***Coffey Environments Australia Pty Ltd, Geelong, Australia (2012 – 2017)***

*Associate Environmental Scientist*

Selected project experience:

- Developed a landfill cap assessment and rehabilitation plan for the Naroghid Landfill
- Designed a groundwater, leachate and landfill gas monitoring program for two closed landfills in Bendigo. Supervised the installation of monitoring bores and on-going monitoring. Developed

a landfill cap assessment, rehabilitation plan and hydrogeological assessment report for each site

- Completed a landfill cap assessment, rehabilitation plan and hydrogeological assessment for a closed landfill at Monkey Gully in Mansfield
- Assisted EPA Auditor with Section 53V operations audits for Devilbend Landfill in Tuerong and Alexandra Landfill
- Completed a cap assessment and rehabilitation plan for the closed landfill at Mt Clear in Ballarat
- Assisted EPA Auditor with verification of hydrogeological assessment for composting facility at Panmure
- Managed the routine groundwater, leachate and surface water monitoring at Stawell Landfill.
- Environmental site assessment works for dairy processing facility in Victoria. Works included development of water balance model for the site, isotropic tracer investigation to assess interaction between surface water bodies and groundwater, calculations of mass flux of contaminants entering nearby surface water body and appraisal of risk to land, groundwater and surface water
- Numerous environmental site assessments at various industrial, agricultural, commercial and defence sites across Victoria. Works included site history investigations, field investigations (drilling, soil surface water and groundwater sampling, gas monitoring), data analysis and development of remediation strategies

***URS Australia Pty Ltd, Tatura and Melbourne, Australia (2005 – 2012)***

*Senior Hydrogeologist*

Selected project experience:

- Identified and evaluated groundwater supply for the township of Edenhope, Victoria. Conducted all field studies including exploratory drilling, installation of production and monitoring bores and aquifer testing. Provided technical advice on borefield design and developed a monitoring programme
- Completed drilling supervision and pumping test analysis for a proposed mineral sands mine in Balranald, NSW. Advised on dewatering feasibility and environmental risk
- Performed two months of hydrogeological field supervision services to Rio Tinto Iron Ore in the Pilbara, WA. Advised on groundwater bore construction and supervised the installation of mine dewatering and monitoring bores
- Investigated the feasibility of exploiting low yielding aquifers to manage salinity in shallow water table areas of the Shepparton Irrigation Region
- Project managed numerous environmental site assessments for major oil companies. Tasks included organization of field works, engagement and management of sub-contractors, establishment of health and safety protocols, report preparation and communication of results to clients
- Performed landholder extension work on behalf of regional water authority. My role was to establish a working relationship between landholders and the regulator, provide general groundwater advice, renew groundwater license's and educate on various incentives and grants

***Douglas Partners Pty Ltd, Melbourne, Australia (2001– 2003)***

*Graduate Environmental Scientist*

- Managed field investigations at industrial, manufacturing and housing development sites
- Collected soil and groundwater samples, supervised installation of monitoring wells and analysed chemical data
- Prepared reports and other correspondence detailing investigative results, implications and recommendations for on-going management and remediation of sites

***Department of Natural Resources and Environment (Minerals and Petroleum Division), Melbourne, Australia (2001)***

*Technical Officer*

- Managed the state government's collection of geological and geophysical data including geological and groundwater bore records, reports, maps and drilling core

- Liaised with private sector and other government clients to locate and access records

### **Education**

- Master of Environment (Hydrogeology), University of Melbourne, Australia, 2005 – 2008
- Bachelor of Science (Hons) Geology, University of Melbourne, Australia, 1997 – 2000

### **Training**

- Landfill Gas Investigation, Risk Assessment and Remediation Course, Australian Contaminated Land Consultants Association, 2012
- Construction industry accreditation, White Card
- Red Cross Level 2 First Aid Certification, 2019
- Mental Health First Aid Certification
- 4WD Off Road Driver Training Certification, 2011.