

## CURRICULUM VITAE

### DEREK LOW

Principal Environmental Consultant

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### Expertise

- Environmental Management Systems
- Environmental risk, audit and compliance management
- Preparation and implementation of CEMPs and sub plans
- Site environmental management and monitoring
- Environmental impact assessment

### Qualifications

- Master of Environmental Engineering Management, University of Technology Sydney
- Bachelor of Environmental Management, Macquarie University
- Diploma of Business, NSW TAFE
- Principal Environmental Auditor, Exemplar Global (formally RABQSA)

### PROFILE

Derek has worked in the environmental field since 2007, across projects in the infrastructure, remediation and manufacturing sectors. During that time, he has prepared and implemented environmental management plans and environmental assessments, managed compliance, overseen subcontractors and utilized a wide variety of monitoring techniques. Derek has extensive first-hand experience in large, high-risk projects and their related effective control measures. He is conversant with NSW environmental legislation and recognized standards and is a certified and experienced Principal Environmental Auditor. Derek's roles have also exposed him to a broad spectrum of stakeholders including contractors, community groups, government departments and consultants.

### PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

- Management System Auditing (ISO 19011)
- Leading Management System Audit Teams
- Industrial Radiation Safety Officer
- Basic Hazard and Operability Studies (HAZOP)
- Erosion and Sediment Control – Water Management on Construction Sites
- Drive in difficult terrain using advanced techniques / 4WD Drive and Recovery
- Occupational Health and Safety Consultation
- Occupational Construction Induction Training Certificate, General Induction

## RELEVANT PROJECT EXPERIENCE

### WolfPeak Environment and Heritage, Sydney

#### *Principal Environmental Consultant*

June 2017 – Present

#### **Independent Environmental Representative | Inland Rail – Parkes to Narromine Project**

Approved by the Department of Planning Industry and Environment (the Department) as the Independent Environmental Representative mandated by the Project Approval. Provides independent review of environmental plans and construction works and provides guidance and direction to proponents to avoid or minimise environmental risks and compliance issues. Undertakes regular inspections of projects works and reviews of documentation, and reports on project performance to the Department.

#### **Independent Auditor and Risk Assessor | Various Projects**

Approved by the Department as the Independent Auditor mandated by various project approvals. Assesses the projects and operations against requirements of their approvals and licenses, and assesses the implementation of their environmental management plans and systems. The audits are conducted in accordance with AS/NZS ISO 19011 and with the reports submitted to Department and made publicly available. As the Independent Risk Assessor undertakes detailed investigation of client operations, identifies and analyses risk profiles, and makes recommendations to eliminate or mitigate those risks. Projects include (but are not limited to)

- M4 East Motorway,
- The Art Gallery of NSW Sydney Modern Expansion,
- Sydney Football Stadium Redevelopment,
- Moorebank Intermodal Project,
- Wollongong Coal Operations,
- Port Botany Operations,
- Port Authority of NSW operations, and
- Seven State Significant School developments.

#### **Senior Case Manager | Department of Planning, Industry and Environment**

Fostered major projects through the assessment process. Provided project management, program support and performance reporting for Infrastructure, Key Sites and Industry teams and coordinating other State agencies to resolve issues during the assessment process.

#### **Environmental Support | Snowy 2.0**

Developed CEMP and sub-plans for spoil, contaminated land, asbestos and waste for both Snowy 2.0 pumped hydro project. The plans set out the approaches to manage compliance and risk associated with excavation, testing and handling of approximately 9 million m<sup>3</sup> of spoil (including acid and metalliferous drainage material and naturally occurring asbestos) for reuse on the project, placement on land and in reservoir or disposed of off-site.

## **Project Manager and Environmental Planner | TransGrid**

Completed or managed over a dozen environmental assessments for various proposed projects relating to the upgrades to TransGrid's substation and transmission line network, including on client-side whilst temporary secondment. Projects include:

- Upgrading for lines 99M, 973 and 999,
- Southern Span Remediations, and
- Tower life extensions for Lines 22, 25/26, 81, 3W and 18.

## **Environmental Support | Northern Beaches Hospital Connectivity and Network Enhancement Project**

Drove environmental leadership and continual improvement and promoted the benefits of early integration of environmental processes and controls into project works. Undertook environmental monitoring and inspections, audits and reviews to ensure compliance with contract deliverables, conditions of consent and applicable legislation.

## **CPB Contractors Pty Ltd, Sydney**

### ***Senior Environmental Advisor***

October 2016 – June 2017

### **Senior Environmental Advisor | WestConnex New M5**

- Assisted in the leadership of environmental management of the Project by providing clear and robust advice on environmental risks and controls to the design, community and construction teams and various subcontractors. Provided specialist knowledge of planning and regulatory frameworks and technical issues, along with project management of specialist contractors and consultants.
- Developed and implemented strategies, plans and procedures; authorized activities; prepared and delivered training, and provided on-site supervision.
- Represented the organisation in stakeholder interfaces including client meetings, community information forums, council meetings and informal and formal regulatory audits.
- Undertook environmental, health and safety monitoring and inspections, audits and reviews to ensure compliance with project/Industry/client requirements.
- Reported, investigated and implemented corrective actions for environmental incidents.

## **Orica Limited, Sydney**

### ***Environmental Management System Lead – Botany***

July 2012 – May 2016

### **Environmental Management System Lead | Various Projects**

- Managed environmental legislative requirements on site, obtaining full compliance for two consecutive years. An integrated site spanning 70 hectares, the works included contaminated groundwater extraction, treatment and treated water on-sale (6.5ML/day), scheduled chemical waste repackaging and storage (15,000 t), thermal soil remediation and beneficial reuse, chemical manufacture and storage (products based on 31,000 t/annum chlorine) and various construction / improvement works on site.

- Led the approval process for the beneficial reuse of 55,000m<sup>3</sup> of remediated soil helping to enable commercial land sale, and for a program for the decontamination and recycling of Persistent Organic Pollutant impacted drums.
- Implemented the Environmental Management System for project works. This included the development, training, implementation, reporting, audit and review of plans and protocols, conducting risk assessments, and supporting projects works to minimise impacts.
- Oversaw requirements under the multiple statutory frameworks relating to planning and development, environmental protection, workplace safety and water supply; including over 1000 project specific conditions, four Major Project Approvals, two Environmental Protection Licenses and Multiple development consents.
- Liaised with regulators, project personnel, internal departments, consultants, subcontractors and property lessees on environmental and planning issues.
- Project managed specialist contractors and consultants.

## IPART (Secondment from Orica), Sydney

### *Principal Analyst*

December 2015 – April 2016

### **Principal Analyst | State Government Independent Pricing and Regulatory Tribunal, Water Licensing and Compliance**

- Developed and implemented the 2016 audit program, reported to the CEO, and developed a consolidated compliance tracking system, capturing 24 licensees.
- Delivered detailed research and technical analysis to ensure the effective administration, licensing and compliance of activities under the Water Industry Competition Act 2006.
- Managed the planning and delivery of complex reviews, Ministerial briefs, and publicly available discussion papers. Developed templates and guidance material to streamline assessment and compliance processes.
- Prepared policy to improve effectiveness and efficiency of IPARTs regulation of the sector, and presented these to the Tribunal for endorsement, and implemented them accordingly.

## Parsons Brinckerhoff, Sydney

### *Environmental Scientist*

April 2007 – July 2012

### **Environmental Scientist | Rhodes / Homebush Bay Remediation Projects**

- Delivered the environmental and occupational monitoring program, managed staff and equipment and held the role of OHS Committee Chair.
- The occupational monitoring program included 28 different monitoring methods for a range of pollutants (water, air toxics, dust, noise and vibrations). Further, it involved the completion of routine and incident inspections, same day incident reports, and weekly and monthly OHS & environmental performance reports. Projects works consisted of excavation of >450,000m<sup>3</sup> of contaminated soils over area of 15 ha (from bay and land) and the thermal treatment of >200,000t of material in two DTD plants.

### **Occupational / Environmental Assessments and Management Planner | Various proposed and active project works**

- Carried out detailed research into existing environments (including sampling and monitoring as needed), detailed relevant legal requirements and best practices control measures for the management of potential environmental risks. Sectors span power generation and distribution, construction (road / rail / property), waste and sewage transfer and disposal and defence and manufacturing.

### **Environmental Scientist | Transmission Cable Alliance and Glenfield Junction Alliance**

- Developed and contributed to environmental assessments and environmental management plans, participated in Safety in Design reviews, managed onsite environmental issues for multiple sites including monitoring and sampling, site inspections, audits, inductions and training and project management of contractors and consultants, incident response and investigation and reporting.

### **Foreman | Bridges to Prosperity Tutuluru Suspension Footbridge, East Timor**

- This site is located approximately 115km south of Dili. Led a team, of between 10 and 30 non-English speaking locals from surrounding tribes, to complete foundation works using local materials and equipment. The Bridge, completed in 2012, spans 79 meters and links remote tribes to essential services.

### **OHS committee representative for sustainable Communities and Water Group**

- Provided safety advice, assisted in preparation and review of Health and Safety Environmental Plans, complied and communicated relevant safety information from safety committee meetings to the group.