

## **Greg Roads** BE(Civil) MIEAust RPEQ

DIRECTOR / PRINCIPAL ENGINEER

**Date of birth** [REDACTED]  
**Citizenship** Australian  
**Languages** English

### **Fields of Expertise**

- Expert Evidence
- Hydrological Modelling
- 2D and 1D Hydraulic Modelling
- Extreme Flood Estimation
- Floodplain Management
- River Engineering and Fluvial Geomorphology
- Water Allocation and Resource Planning
- Mine Site Water Management
- Water Balance and Yield Studies
- Water Quality Management

### **Education**

- Bachelor of Engineering, Civil (First Class Hons.), University of Technology Sydney 1993

### **Professional Affiliations**

- Member, Institution of Engineers, Australia
- Registered Professional Engineer, Queensland, Australia
- Member Australian Water Association
- Member Stormwater Industry Association

### **Countries of Experience**

- Australia
- Canada
- Solomon Islands
- Philippines
- Indonesia
- Thailand

### **Professional History**

2004 to present WRM Water & Environment, Brisbane, Qld, Director  
1997 to 2004 Water Studies Pty Ltd, Brisbane, Qld, Senior Engineer  
1993 to 1997 NSW Dept of Land and Water Conservation, Parramatta, NSW, River Engineer/Floodplain Engineer  
1988 to 1993 NSW Dept of Land and Water Conservation, Parramatta, NSW, Cadet River Engineer

### **Career Summary**

Greg Roads was awarded a cadetship with the NSW government to study Civil Engineering at the University of Technology, Sydney and work full time with the Department of Water Resources. In 1993, he graduated with first class honours having completed three years of practical work experience in various sections of the Department. The cadetship program gave Greg a strong understanding of the water industry from the operation of irrigation areas, dam operation, riverine corridor management, environmental planning, water allocation and floodplain management.

Greg continued to work for the department for a further 4 years after completing his degree developing hydrological and hydraulic models for rural floodplain management studies and project managing the Tumut and Upper Murray River Works Program. He was awarded a High Commendation by the Department for his work in Tumut to improve the working relationship and communication links between the Department and the local community.

Since 1997, Greg has applied his considerable water resource management expertise to provide advice to local and state governments, mining, land development, insurance and agricultural sectors. He has lectured part time at QUT in water resource management, extreme flood estimation, hydraulic modelling and river engineering. He is a founding director of WRM Water & Environment.

### **Significant Relevant Projects**

- Pioneer River Flood Study, Mackay Qld.
- Brisbane River Extreme Flood Estimation Study, Qld
- Terrors Creek Flood Mitigation Study, Dayboro, Qld
- Roper Creek Flood Study and Stream Diversion Study, Middlemount, Qld.
- Todd River Flood Mapping Study, Alice Springs, NT
- McCrearys Creek Stormwater Trunk Infrastructure Study, Mackay, Qld
- Hunter River Flood Study and Flood Mitigation Study, Carrington Mine, NSW.