



William Glamore is a Senior Project Engineer specialising in field, laboratory and numerical modelling studies of water processes in estuarine, dam, coastal, groundwater, and effluent discharge terrains. William has particular interests in acid sulphate soils investigations and remediation options, numerical modelling of surface and groundwater environments, outfall studies, estuarine processes, water sensitive urban design, data monitoring techniques, water quality, water supply issues (stratification and quality) and 'Smart' technologies.

**QUALIFICATIONS**

B.Sc. (Environmental Science/Nat. Resource Mgmt-Major;  
Ecology Biology-Minor), Uni of Colorado-Boulder, USA, 1996.  
PhD (Environmental/Civil Engineering), Uni. Wollongong, 2003

**AFFILIATIONS**

Committee Member of Engineers Australia- Water Panel  
Recognised Internat'nal Atomic Agency Expert- Water Processes  
Professional Association of Diving Instructors (PADI)

**WILLIAM GLAMORE  
SENIOR PROJECT ENGINEER**

B.Sc. (Environmental Science)  
PhD (Environmental/Civil Engin)

**PROFESSIONAL  
HISTORY**

1996-1997: Scientific Delegate, Friendship City Project, Nicaragua  
1997-1998: IDC Staff Instructor, Manager, ProDive, Sydney  
1999-2003: PhD Scholar University of Wollongong,  
1999-2003: Private Consultant  
2003- Senior Project Engineer, WRL

William has 9 years of international and local experience in the specialist fields of:

- Coastal and Estuarine Hydrodynamics
- Ocean Outfall Hydraulics & Water Quality
- Marine Research Techniques & Biogeochemistry
- Project Management
- Instrumentation and Selection of Field Sites
- Estuarine Process Studies
- Soil Chemistry, Sampling and Testing
- Tidal Restoration/Wetland Reconstruction Techniques
- Groundwater Monitoring Techniques
- Hydrodynamic and Water Quality Modelling
- Water Quality Sampling and Testing
- 'Smart' Technologies
- Acid Sulphate Soils
- Geographic Information Systems (GIS)
- Environmental Chemistry
- 3D Numerical Modelling of Groundwater Systems

**RELEVANT EXPERIENCE- SELECTED PROJECTS**

**Water Quality & Environmental Investigations**

Effluent Management, Ballina Waste Depot (2004)  
Brooklyn Estuary Process Study (2003)  
Coffs Harbour Boat Ramp Study (2003)  
Botany Bay Monitoring Assessment (2003)  
Data Requirements in Singapore Straits (2003)  
Chichester Dam Water Quality Investigation (2004)  
Effluent Reuse Irrigation Model Evaluation (2004)  
Potable Water Systems, Nicaragua (1996-97)  
Combined Probability Wind and Rainfall Analysis (2003)

**Acid Sulphate Soils & Groundwater Studies**

ASS Groundwater Feasibility Study-Marrickville (2004)  
Harvesting Saline Groundwater for Desalination (2004)  
Multi-Piezometer Study for Saline Intrusion (2001)  
Kurnell Wetlands and ASS Restoration (1999)  
Shoalhaven Regional ASS Assessments (1999-2003)  
Shoalhaven City Council ASS Expert Panel (2002-03)  
Geophysical Imaging at Centennial Park (2003)  
Geophysical Imaging at Soldiers & Mahoney Park (2004)  
*SmartGate* Remediation Network (2004)

**Numerical Modelling & Hydraulic Structures**

2D Model Groundwater Extraction Wells, Wyong (2004)  
2D FE Hydro Model of Wallis Lake Fish Settling (2003)  
3D FE Modelling of ASS & Saline intrusion (1999-2002)

3D Groundwater Model for Lateral Intakes, Wyong (2004)  
2D FE Model Cabramatta Creek Flood Study (2003)  
2D Hydrodynamic Model of Singapore Straits (2003)  
2D Erosion/Deposition Models around Outfalls (2003-04)  
Multi-stage Mixer Separator Testing (2003)  
Coffer Dam Stability Assessment- South Australia (2004)  
Air Flow Physical Modelling (2003)  
Development of 'SmartGate' control systems (1999-03)  
Effectiveness of artificial mixing systems in dams (2004)

**Boat Wake Field Tests & Environmental Chemistry**

Williams River Boat Wake Monitoring (2003)  
Boat Monitoring Rozelle & Blackwattle Bay (2004)  
Wave Energy Assessment Darling Harbour (2004)  
Wakeboard Comprehensive Field Testing, Manly (2004)  
Ion Chromatography and Atomic Adsorption (1996-03)  
Ion Association Water Quality Modelling (2000-03)

**Marine Outfall Investigations**

Singapore Southern Islands Outfall Study (2003)  
Waimakiriri Ocean Outfall Near/Far Field Model (2003)  
Christchurch Ocean Outfall Near/Far Field Model (2004)  
Burnie Ocean Outfall Optimisation (2004)  
Shellharbour Ocean Outfall Field Evaluation (2004)  
Port Kembla Ocean Outfall Field Evaluation (2004)