



Mark Passfield

B.Sc (Eng. Geol) (Hons.) CPESC

Director



Mark is an expert in aspects of surface water management and geotechnical engineering. He has experience with water management for mines and quarries, and an industry leader in onsite wastewater management. Mark regularly provides consulting and expert witness services in these fields for both government and private clients.

Mark has worked on a wide range of sites including mines, major infrastructure projects (road, rail and energy), plus urban and rural subdivisions.

Mark is a Director of SEEC and one of our Principal Experts in Surface Water Management and Soil Geotechnics. He is also a Certified Professional in Erosion and Sediment Control (CPESC).

Qualifications

- Bachelor of Science (Engineering Geology and Geotechnics) with Honours. Portsmouth, UK (1981)
- Certified Professional in Erosion and Sediment Control (CPESC #2712)
- Member of the International Erosion Control Association (IECA).

Areas of Expertise

- Preparation of environmental studies, including Water Cycle Management Plans and Onsite Wastewater Management Plans
- Preparation of Soil and Water Management Plans and Erosion and Sediment Control Plans
- Geotechnical investigations for foundations and land stability
- MUSIC modelling
- Soil survey/soil landscape/land capability mapping
- Erosion mitigation and rehabilitation
- Sediment and pollutant control
- Geomorphology
- Preparation of Surface Water Assessments including surface water harvesting.

Short Courses/Workshops Completed

- WorkCover Occupational Health and Safety General Induction for Construction Work
- Rail Industry Safety Induction Certificate (NSW Railcorp)
- Three day workshop on onsite wastewater studies (CET, Newcastle)
- Four day workshop on the NSW Blue Book (CET).
- Advanced driver training. December 2010
- Two day workshop on sand filters for wastewater treatment (CET, Newcastle)
- Aquacycle Water Balance Modelling (CRCCH)
- Various MUSIC Users' Forums
- One day workshop on onsite wastewater management study report writing (CET, Newcastle)

Career Highlights

Director, SEEC from August 2007 to present.

- Staff, client and business management.
- Recruitment and training.
- Business planning and strategic management.
- Budgeting and project management.
- Expert advice on water cycle management and water quality modelling issues.
- Expert advice on soil-related issues including erosion and sediment control.
- Expert advice, design and consulting regarding onsite wastewater management.
- Geotechnical engineering, advice, design and assessment.

Geotechnical Engineer, Morse McVey & Associates Pty Ltd from December 2002 to August 2007.

- Preparation of soil and water management studies and reports.
- Preparation of water quality modelling and management plans.
- Preparation of erosion and sediment control plans.
- Preparation of Onsite Wastewater Management Studies for numerous rural and rural residential subdivisions.
- Foreshore Restoration Plans for NSW Maritime.
- Expert Witness services.
- Preparation of Geotechnical Reports for commercial and domestic projects.

Geotechnical Engineer and Marketing Manager for GSE Lining Technology Pty Ltd from 1998 to 2001.

- The application of high density polyethylene linings for lagoons and landfills
- Designs for retaining walls
- Designs for channel erosion control
- The use of geosynthetics for road pavements, subsoil drainage, revetments, etc

Sales Engineer/Geotechnical Engineer for Steel Foundations Ltd from 1996 to 1998 applying innovative screw pile technology.

- Design of screw-piled foundations
- Project management of screw-pile projects

Sales Engineer for Geofabrics Australasia Pty Ltd 1984 to 1996.

- Applying geosynthetics for civil engineering projects including:
 - road construction
 - road sealing
 - erosion control
 - subsoil filtration
 - reinforced soil embankments
 - reinforced soil walls.

Recent Projects

- Preparation of numerous Surface Water Impact Assessments and Surface Water Management Plans for various mine projects including:
 - Hera Gold, Nymagee
 - Mineral Hill
 - Berrima Colliery
 - Dargues Reef Gold Mine
 - Ardmore Park Quarry
 - Gunlake Quarry
 - Dubbo Zirconia
 - Dubbo Sands
- Preparation of numerous Water Cycle Management Studies and Surface Water Management Plans for various projects including:
 - Rural residential subdivisions, Southern Highlands, Southern Tablelands, South Coast
 - Commercial and industrial developments, Southern Highlands, Southern Tablelands
 - Quarry developments, Southern Highlands, Dubbo
- Foreshore restoration design/advice and geotechnical assessment, Chiswick (NSW Maritime).
- Site audits for environmental compliance; e.g. Nowra Jail.
- Contamination assessment, Bridge Rd, Nowra.
- Erosion and Sediment Control audit/advice:
 - Leighton Contractors, The Northern Hume Alliance
 - Dept Public Works: Nowra Jail
- Staff supervision of various roadwork projects:
 - Princes Highway Figtree
 - Princes Highway Tilba
- Surface water audits for various coal mines including:
 - Medway Colliery
 - Duralie Coal Mine
 - Stratford Coal Mine
- Preparation of Onsite Wastewater Management Studies for numerous rural, commercial and rural residential developments; Southern Tablelands, Southern Highlands, South Coast, Blue Mountains etc.
- Preparation of construction-phase Erosion and Sediment Control Plans for various developments including:
 - Proposed Quarries, Marulan and Bungonia
 - Proposed subdivisions, Goulburn and Southern Highlands
 - Substation, Wallerawang
 - Proposed retirement villages, Southern Highlands.

Land and Environment Court Work

- Land and Environment Court Proceedings 10234 of 2011. 2089 Elizabeth Drive Cecil Park. Wastewater related.
- Land and Environment Court Case No10445/2011. 40 Brush Road Wamberal. Wastewater related.
- Land and Environment Court Proceedings No 11332 OF 2003. Appin Caravan Park. Wastewater related.
- Land and Environment Court Proceedings 10134 of 2009. 60 Bents Basin Road, Wallacia, NSW. Wastewater related.
- Land & Environment Court of NSW Proceedings Number 31202 of 2012. 60 Eastwood Road, Leppington. Wastewater related.

Contact Details

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