



## Alyssa Thomson

B.Eng (Hons.) CPESC

Civil and Environmental Engineer



# SEEC

Strategic Environmental and Engineering Consulting

Alyssa is a qualified civil engineer who has developed significant expertise in environmental management. In particular, she has taken her skills in civil and environmental engineering and applied them to construction-site erosion and sediment control.

Alyssa has worked on a wide range of projects, preparing erosion and sediment control plans, stormwater drainage plans, reviewing work activities, conducting flood studies or flow analyses and conducting inspections of environmental controls.

Alyssa is a civil engineer and an integral part of the SEEC team. She blends expertise in civil engineering with expertise in construction-phase environmental management. She is also a Certified Professional in Erosion and Sediment Control (CPESC).

### Qualifications

- Bachelor of Engineering (Civil) with Honours. University of Wollongong (2008).
- Certified Professional in Erosion and Sediment Control (# 7271).
- Member of the International Erosion Control Association (IECA).

### Areas of Expertise

- Construction site erosion and sediment control inspections, plan preparation and expert advice
- Storm water drainage design
- Flood Studies and Flood Risk Assessments
- Erosion and sediment control plans
- Soil and water management plans
- Water treatment, sediment and erosion control
- Autocad drafting and design modelling
- Erosion mitigation and rehabilitation

### Short Courses/Workshops Completed

- WorkCover Occupational Health and Safety General Induction for Construction Work
- Rail Industry Safety Induction Certificate (NSW Railcorp)
- Four day workshop on the NSW Blue Book (CET) (2008).
- Advanced driver training. December 2010
- R.T.A. Certified Traffic Control Worksite Planning Certificate
- Introduction to Groundwater, National Centre for Groundwater Research and Training (2011).
- MUSIC - Stormwater modelling, (eWater, 2011).

## Career Highlights

Civil Engineer and CPESC for SEEC February 2008 to present

- Provision of onsite advice, reviews and consulting for erosion and sediment control
- Residential, industrial and commercial stormwater drainage designs
- Erosion and sediment control and soil and water management plans
- Flood studies and flow analyses
- Preparing and certifying traffic control plans for road works
- Engineering design for rural and urban roads

Trainee Civil/Structural Engineer for David Hunt & Associates from 2005 to 2008

- Drainage and driveway designs for residential and commercial subdivisions and developments
- Concrete and structural steel designs for residential and industrial developments
- Survey design work
- Civil and structural drafting

## Recent Projects

- Expert soil conservationist for major road projects including Princes Highway - Gerringong, Princes Highway – Berry, Princes Highway – Termeil Creek and Princes Highway - Victoria Creek.
- Expert advice, plan preparation and endorsement of erosion and sediment controls as part of the Ichthys Project, Darwin, NT.
- Erosion and sediment control plans, site inspections and advice for Heathcote Road Upgrade at Deadmans Creek.
- Preliminary construction-phase erosion and sediment control design during RangeLink's tender bid for the Toowoomba Second Range Crossing.
- Erosion and sediment control plans, site inspections, expert advice, training and rehabilitation plans for MCJV Narrows Project, Gladstone, Qld.
- Erosion and sediment control plans for Abigroup's Caval Ridge Project, Bowen Basin, Qld.
- Provide advice and preliminary designs on construction-phase erosion and sediment control during Fulton Hogan's (successful) tender bid for the Princes Highway Gerringong and Foxground Berry Bypass Projects.
- Review of erosion and sediment control practices for Roma 02 Hub, part of the GLNG Upstream project (Santos and McConnell Dowell). Included preparation of updated erosion and sediment control plans.
- Erosion and Sediment Control and Soil and Water Management plans for developments in the Southern Highlands and Sydney Regions.
- Stormwater design and analysis of seniors living developments and several industrial and residential subdivisions; Southern Highlands and Goulburn Regions.
- Flood analysis for several developments; Southern Highlands and Shoalhaven.
- Erosion and sediment control concept plan for the Bega Bypass.
- Erosion and sediment management report for pre-construction phase assessment of Burrill Lake Bridge replacement project, NSW South Coast.
- Erosion and sediment control plans for numerous Arrow Energy projects including pipelines, dams and well pads.
- Provide training in erosion and sediment control; Centre for Environmental Training 4-day workshops.
- Flood assessment and general civil design for equestrian facility, Headlam Road, Moss Vale.
- Drainage design for temporary works during construction, numerous mine projects in SE NSW.
- Erosion and sediment control plans for Canberra Light Rail project.
- Erosion and sediment control plans for Sydney Light Rail, Lilyfield.

## Contact Details

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