





TOPO.



Environment. Engineering. Education.



The lean engineering firm


Topo is a boutique consultancy stripped of the non-essentials. Topo was formed on the premise to be agile, adaptable and progressive. We provide value to our clients where it matters.

No hierarchy. No bureaucracy

A team of ambitious professionals is more powerful than an organisation constrained by bureaucracy, titles and internal competition. By encouraging teamwork, we increase quality and efficiency of our services.

Experienced and driven

All Topo staff are highly experienced and recognised as leaders in their respective fields. When you engage Topo, it is this experience that you receive. We pride ourselves on delivering innovative, practical and efficient solutions for our clients.



CORE SERVICES



Erosion and Sediment Control

Topo has four staff that hold the internationally recognised Certified Professional in Erosion and Sediment Control (CPESC) accreditation. Our Managing Director, Kyle Robson, is also acting on the board of directors of the Australasian Sector of the International Erosion Control Association (IECA). We have developed significant practical experience with respect to ESC through our planning, field and secondment project experience acting in contractor, client and regulatory roles. Combined, this enables us to develop certifiable and practical ESC plans and provide experienced advice in the field.

We pride ourselves on the quality of our plans and advice and strive to provide innovative, effective and efficient solutions.

We provide:

- Conceptual and detailed ESC plans
- CPESC and RPEQ review and certification
- Auditing and compliance assessment
- Site advice and support
- Strategic planning and Policy
- Education and Training
- Expert witness
- Water quality monitoring and planning



CORE SERVICES



Soil Management

Topo provides practical soil investigation and advice allowing the client to effectively plan for, and proactively manage soil properties. Our skills and experience in soil management perfectly compliment our entire service offering and allows us to holistically approach specific problems or scenarios. Our advice in the field of soil management is supported by accreditation as a Certified Professional Soil Scientist (CPSS).

We provide:

- Soil testing and analysis
- Soil characterisation and mapping
- Dispersive soils investigation and development of Dispersive Soils Management Plans
- Interpretation and rehabilitation advice
- Acid sulphate soils investigations and planning, including ground and surface water impact assessment



CORE SERVICES



Stormwater Management and Flood Assessment

Topo staff have considerable experience in hydrologic and hydraulic modelling and have undertaken a number of large scale flooding and hydraulic impact assessments for projects throughout Queensland, northern New South Wales and South Australia. We have experience in stormwater quality modelling using 'MUSIC' and the design of stormwater treatment systems to achieve relevant water quality objectives. Topo. is skilled in the design of detention systems and is very familiar with many of the specific council requirements for WSUD in Queensland.

Topo has 3 principal engineers who are proficient in hydraulic modelling and planning. Our principals are all Registered Professional Engineers of Queensland (RPEQ) and have the technical expertise and practical experience to develop effective solutions in the field of stormwater management and flood assessment.

We provide:

- Hydrologic and hydraulic modelling (both 1- dimensional and 2-dimensional)
- Flooding and hydraulic impact assessments
- High Efficiency Sediment (HES) Basin and Detention basin design
- Stormwater quality modelling
- Flood risk assessments and management plans
- Drainage and spillway design



CORE SERVICES



Education and Training

At Topo we aim to educate our clients and peers through all areas of our discipline. We adopt an interactive approach to project delivery and are serious about providing the support required for the success of the greater project, even after we have delivered our specific component. We are unlikely to identify a problem without offering a solution.

We also offer more formalised training, and our Director, Terry Clark, holds a Certificate IV in training and assessment. He regularly presents ESC training to a range of audience groups (field, compliance, office based). Terry has trained over 1,500 people in QLD, NSW, VIC, NT and TAS. Terry's wealth of experience and qualifications (RPEQ, CPESC & CPSS) provide attendees with an engaging and insightful course which is approved by the International Erosion Control Association (IECA).

Topo offers customised training packages as well as a standardised programme, including:
ESC 1 – Introductory Course for General Site Personnel
ESC 2 – Intermediate Course for Site Supervisors, Engineers, PM's and Advisors
ESC 3 – Advanced Course for Plan Preparers, Designers, Auditors and Specialists seeking CPESC accreditation



STAFF



Kyle Robson - Managing Director

BEng (Civil) (Hons), EMBA, RPEQ, CPESC

Kyle is recognised as a specialist and thought leader in the field of erosion and sediment control and has been involved in some of the largest projects in Australia, as well as policy and industry guideline preparation. Kyle is a Registered Professional Engineer of Queensland (RPEQ), Certified Professional in Erosion and Sediment Control (CPESC) and Director of the Australasian Sector of the International Erosion Control Association (IECA). Kyle also has significant experience in water quality and hydrologic and hydraulic modelling, Water Sensitive Urban Design (WSUD) and civil construction.

Kyle has experience in a wide range of sectors including urban development, infrastructure, mining, and gas and is experienced in the planning and design phase as well as the construction and operational phases. Kyle has performed contractor, consultant, client and regulatory roles and has extensive knowledge of regulatory requirements and policy as well as a broad understanding of the constructability and efficiency of engineered stormwater solutions. Kyle has also been heavily involved in the update to the *Best Practice Erosion and Sediment Control* document (IECA) to include contemporary sediment basin design.

Kyle is an experienced project manager and technical specialist who brings extensive knowledge to projects. Kyle provides his clients with exceptional time management, knowledge and team work abilities, whilst providing cost-effective and practical solutions.



STAFF



Steven Chamberlain - Principal Engineer | Director

BEng (Env.) (Hons), RPEQ, CPESC

Steven's key skills focus on drainage design. He is a principal environmental engineer with 14 years experience in the environmental consultancy industry, and as a Certified Professional in Erosion and Sediment Control (CPESC) and Registered Professional Engineer of Queensland (RPEQ), provides clients with high quality designs and reports.

Steven is experienced in developing Erosion and Sediment Control Plans and has worked on several linear infrastructure and high profile projects. His experience extends from the development of plans, to undertaking site audits, providing field advice and acting as an Expert Witness in relation to erosion and sediment control.

Steven has significant experience in water quality and hydrologic/hydraulic modelling, and is experienced in Water Sensitive Urban Design (WSUD) for commercial, industrial and residential developments. Steven has considerable experience and an interest in the design and implementation of stormwater management systems for landfill sites.

Throughout his career, Steven has also undertaken flood studies and hydraulic impact assessments ranging in size from small overland flows to regional catchment assessments. Steven has undertaken the design of detention basins to alleviate flooding, and assessed flood mitigation options.



STAFF



Terry Clark - Principal Engineer | Director

BEng (*Env.*) (*Hons*), RPEQ, CPESC, CPSS, Certificate IV in Training and Assessment (TAE40110)

Terry is recognised a specialist in the field of soil and water management, specifically erosion and sediment control (ESC). Prior roles have seen Terry appointed to undertake the planning, design, supervision and/or auditing roles for ESC on some of Australia's largest infrastructure projects.

Terry holds the internationally recognised qualifications of Certified Professional in Erosion and Sediment Control (CPESC) and Certified Professional Soil Scientist (CPSS). In addition, Terry is a Registered Professional Engineer of Queensland (RPEQ) allowing certification of design drawings and prescribed engineering services.

Over his career, Terry has developed a broad background of experience within the environmental field having previously worked within both private industry and Government. Experience gained within these roles have provided him with a comprehensive understanding of the entire project delivery process from the initial project conception, design and construction phases and subsequent final delivery.

Terry regularly presents a range of ESC training courses in accordance with best practice standards including IECA (2008) and the Blue Book (2004). He has trained over 1,500 people in QLD, NSW, VIC, NT and TAS. He has been invited by Griffith University to sessional lecture Engineering Design and has previously presented ESC training at Sydney TAFE.



STAFF



Tom Bailey - Senior Engineer | Director

BEng (*Env.*), CPESC

Tom is a senior engineer and Certified Professional in Erosion and Sediment Control (CPESC) with a history of project experience gained through a range of secondments on large scale construction projects. Tom's strengths lie in his construction experience supported by technical expertise, allowing him to develop practical and effective solutions to site based soil and water problems.

Tom is a hardy, enthusiastic engineer with a strong work ethic and a commitment to getting the job done. He has completed a number of stormwater treatment projects as the Construction Superintendent for local government and private parties. Tom has also provided specialist ESC support to numerous clients on a range of projects, ranging from small-scale residential developments projects to some of the largest infrastructure projects in Queensland, such as the Cooroy To Curra Bruce Highway Upgrade, Toowoomba Second Range Crossing and Curtis Island LNG projects.

Across a variety of roles, Tom has supported both clients and contractors and understands the intricacies of contract management from both perspectives. Through his technical expertise and experience Tom has also been requested to provide Expert Witness support.

Tom is proficient in his adaptability to site work and a wide range of roles, while maintaining a combination of technical and practical skills.



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