

ADAM JAMES BUDJI

Civil & Geotechnical Engineer

QUALIFICATIONS, AFFILIATIONS & CERTIFICATES

Bachelor of Engineering (Civil), University of Technology, Sydney, 2013
Member of Institute Engineers Australia, MIEAust (3219702)
Member of the Australia Geomechanics Society, January 2014
Occupational Health & Safety General Induction, WorkCover NSW (CGI01284012SEQ1)

PROFESSIONAL BACKGROUND & EXPERIENCE

June 2015 – Present, Shirley Consulting Engineers Pty Ltd: Adam currently works for Shirley Consulting Engineers which specialise in a wide range of civil, ground and geotechnical and forensic engineering projects. Adam works in close collaboration with the Director and other senior engineers of the company to undertake forensic investigations and to produce expert reports & evidence for various insurers, loss adjusters, solicitors and government bodies and private individuals.

June 2012 – June 2015, Martens & Associates Pty Ltd: Adams duties typically included carrying out geotechnical investigations and designs, in combination with contaminated site, wastewater and water assessment, for new infrastructure, infrastructure upgrades and land development projects for local, state governments and private sectors.

Other duties included supervision and verification of construction works, including excavations, shallow footing and deep pile construction. Individual project values ranged typically between \$5k to \$60k, generally involving 2-3 staff over a 2-4 week period within Sydney and across regional NSW.

August 2008 – July 2009, Hanson Precast Australia: Adams primary role included analysis of product requirements and specifications with civil engineers and leading hands for precast concrete flooring production. Adam assisted in job delegation, administering schedules, producing drawings and conducting quality assurance

As a professional engineer, Adam has consulted on various projects and has developed experience in the following fields:

Geotechnical Engineering

Site Investigations & Inspections	Laboratory Testing
Engineering Reports & Consulting	Preliminary Construction Recommendations
Geotechnical Modelling	Site Classification

Environmental Engineering

Stage 1 & 2 Environmental Site Assessments	Waste Classification
Wastewater Assessments	Acid Sulfate Soils & Salinity Assessments

Civil Engineering

Stormwater and Hydraulic Design	Preliminary Pavement Design
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GEOTECHNICAL ENGINEERING

Adam's experience in the field of geotechnical engineering covers the development of new residential and commercial infrastructure with some experience with mining, government and telecommunications infrastructure. Adams experience consists of:

- Site investigations in accordance with Australian Standard AS1726 *Geotechnical Investigations* consisting of rock coring and test boreholes. Involved in a range of penetration testing such as the Standard Penetration Test (SPT) and the Dynamic Cone Penetrometer (DCP).
- Rock and slope stability risk assessments in accordance with the Australian Geomechanics Society (2007) *Landslide Risk Management Guidelines*.
- Site classification in accordance with AS2870 Residential Slabs and Footings.
- Soil resistivity testing and analysis using the 4 pin Werner Method in accordance with the HB-160 (2006) *Soil Testing Guidelines*.
- Site inspections consisting of vibration monitoring, footings, shoring, compaction testing supervision and verification and dilapidation surveys.
- Installation and monitoring of groundwater wells over a 6 to 12 month period.
- Geotechnical modelling using specialised computer software such as Settle 3D, Wallap 5.0, Slide and Phase 2.
- Geotechnical desktop review using public and internal databases consisting of topography, geology, historical references, existing groundwater conditions, existing vegetation.
- Geotechnical reporting consisting of site descriptions, provision of preliminary soil and rock strength properties and design values and general geotechnical recommendations addressing geotechnical site constraints.
- Familiarity using various Australian Standards such as AS3798 *Guidelines on Earthworks for Commercial and Residential Developments*, AS2159 *Piling design and Installation* and AS2870 *Residential Slabs and Footings*.

ENVIRONMENTAL ENGINEERING

Adam is experienced in undertaking various environmental investigations for new and existing infrastructure consisting of the following:

- Stage 1 and Stage 2 Environmental Site Assessments comprising of site walkovers to identify environmental Area of Concern (AOC) and undertake contamination sampling with associated laboratory testing for hazardous material in accordance with relevant EPA guidelines.
- Waste classification in accordance with relevant EPA guidelines.
- Acid sulphate soils assessments and management plan in accordance with the Acid Sulfate Soil Management Advisory Committee (ASSMAC, 1998) *Acid Sulfate Soils Assessment Guidelines*.
- Salinity Assessments consisting of soil sampling and testing for soil aggressivity.
- Wastewater Assessment undertaking in accordance with AS1547 (2012) *On-Site domestic-wastewater management*.

CIVIL ENGINEERING

Adam has experience in civil engineering and includes the following:

- Preliminary hydraulic and stormwater designs using DRAINS, specialised engineering computer software and preparing engineering plans in accordance with various Council Development Control Plans.
- Preliminary pavement designs in accordance with Austroads (2004) *Pavement Designs*
- Involved in projects dealing with developments constructed adjacent to railway corridors and busy roads.