

Company Capability Statement



alliance

Introducing Alliance

Alliance is a well-established and highly respected Geotechnical and Environmental consultancy company with a proven track record in delivering and exceeding our clients' expectations.

With over 23 years of industry experience, we have grown to over 150 employees and have based our office and materials testing laboratories in Seven Hills, plus labs in Wollongong and the Gold Coast.

Our professional team of engineers, geologists and scientists have a wealth of knowledge of ground conditions throughout Sydney and across New South Wales. This gives us the ability to see the big picture and identify and address potential issues with innovative thinking, best practices and common-sense solutions.



Residential – Civil – Commercial – Infrastructure

Geotechnical and Environmental solutions



Avoid approval, design or construction delays

Time is money, we get it



The right information to make the right decisions

Essential for cost-effective design



Environmental solutions 'from start to finish'

We help navigate and simplify the process



Geotechnical

Time delays prior to or during construction can end up being very expensive, we understand this and provide geotechnical engineering services with a view to getting the project started and keeping it moving forward.

Environmental

Our highly experienced environmental team navigate complex regulations and simplify the environmental approvals process providing certainty and avoiding delays with regulatory approval or construction project schedules.



Testing

From specialty soil and rock mechanics to earthworks conformance, we employ the best people in our industry. Our laboratory and field staff are industry leaders. We provide the best onsite advice during the construction phase and cutting edge geomechanical testing services for construction, design, mining and research.

Geotechnical Engineering

Alliance provides geotechnical and geological engineering support during the full project life cycle from conception to construction with a view to keeping the project moving forward.

Our team of engineers has an excellent understanding of engineering geology, construction methodology, risk assessment, soil and rock mechanics and a proven track record assisting our clients with construction approvals and schedules that are often in challenging geological conditions.

We provide support in:

- Geotechnical Investigations
- Geotechnical Factual / Interpretative Reports
- Slope Risk Assessment
- Geotechnical Analysis and Design
- Temporary Works
- Specialist Engineering Assessments (SEA)
- Geotechnical Certification during construction
- Trench stabilities
- Piling platform assessments
- Bearing capacities.



▲ Construction Phase Services (CPS) were provided on the west section of the M12.

◀ Alliance provided a team of experienced Engineering Geologists and Geotechnical Engineers to assist with work onsite for the Western Harbour Tunnel project.

▼ Nightworks is often required by our team, shown here taking samples on Camden Valley Way in south-west Sydney.





▲ The Warringah Freeway Upgrade is being carried out on one of the busiest and most complex road corridors in Australia. Alliance is proud to be providing Geotechnical, Environmental and Testing services on this major infrastructure project.



▲ The Western Harbour Tunnel will be Sydney's second underwater crossing and provide a western bypass of the CBD. Alliance is providing a complete service of Geotechnical investigation work, Environmental monitoring and a wide range of Testing for this project.

Environmental Consulting

Alliance provides specialist contaminated land consulting that delivers independent, professional bespoke advice to residential landowners, developers, government agencies and construction companies.

Our team has successfully conducted hundreds of contaminated land assessments to support various high and low-density and state significant development projects across NSW.

We have a proven track record of delivering successful outcomes for our clients, thanks to our understanding of client needs, our methodical approach and collaborative solution driven methods.

We provide support in:

- Contaminated land assessments (PSI, DSI, RAP and site validation)
- Waste classification
- VENM and RRO/RAO assessments
- Pre-occupation and post-occupation assessments
- Preliminary contamination and delineation assessments
- Asbestos air monitoring and asbestos removal clearance reports by in-house Licensed Asbestos Assessors
- Acid Sulphate Soil assessment
- Due diligence assessments.



▲ Water samples were taken in Fairy Meadow.



◀ Alliance provided a team of experienced Environmental engineers to assist with work onsite for the Western Harbour Tunnel project.

▼ The Sydney Metro City and Southwest project is Australia's biggest public transport project. Alliance is providing geotechnical and environmental engineering supervision during the construction phase including waste classification.



Testing

Alliance has the country's most significant single-base laboratory, located in Seven Hills. We have also recently expanded and opened a second branch in the Wollongong area.

Our two branches, along with our specialty testing department, have a total of over 60 personnel. We have an enormous capacity to support large projects.

Earthworks Testing

Our Seven Hills Base Laboratory can perform all AS1289, AS1141 and TfNSW tests from the R44, R11, R50, B30, R57/R58, R3051, R3071 and T HR CI 12111 SP specifications in-house. We can perform Artificial Weathering (T103) on 80 samples daily, have 200 CBRs moulded at any given time, and have dedicated PI and PSD stations. Alliance has six auto-compactors that can perform 180 Rapid Hilt Compactions or 20 Pre-treatments per day. Alliance also has a Benkelman Beam Truck.



Alliance has a very experienced team, including two NATA Technical Assessors, Senior Managers, Coordinators and various field and laboratory technician levels. Our Earthworks Technical Manager also assists in overseeing larger projects to ensure project delivery requirements are adhered to.

Specialty Testing

Alliance is the market leader in this field. We saw an opportunity to expand into this field from previous experiences where extended wait times over a month were standard. We can perform:

- Triaxial, Consolidation and Shear Strength testing on both soil and rock
- 10 triaxial machines
- 15 odometer machines
- 6 x 100mm shear box machines
- 5 x 300mm shear box machines

Alliance has the highest capacity of any laboratory in Australia to perform Shear Strength Testing on soils and currently perform around 90% of all Q181C within NSW.

We are the only laboratory in Australia that is NATA accredited to perform all three ASTM Tests, ASTM D4542-14 – Free Swell & Collapse Strain & ASTM D4542-15 – Soil Soluble Salt Content. These tests are a requirement for backfill materials in the Sydney Water Technical Specification.





▲ The Parklife Metro consortium is responsible for the Stations, Systems, Trains, Operations, and Maintenance (SSTOM) contract for the Sydney Metro – Western Sydney International Airport. Alliance are providing Geotechnical (Construction Phase Services), Environmental (Waste classification) and Primary Testing.

Health, Safety, Quality & Environment

Alliance holds ISO certification for Safety Management (ISO45001), Quality Management (ISO9001) and Environmental Management (ISO14001).

ISO certification verifies that our processes and systems meet the highest international standards and is testament to Alliance's commitment to delivering exceptional service. By ensuring compliance with ISO standards, we will provide a high degree of confidence to our clients that their project is in the right hands, capable of meeting and exceeding expectations.

Alliance's own laboratory is NATA accredited to ISO/IEC 17025 and obtains TfNSW L3 Accreditation, demonstrating our commitment to upholding the highest standards of accuracy, reliability, and technical competence, allowing our staff and clients to make informed decision with confidence.

Our accreditations reflect our dedication to continuous improvement, ongoing staff training, and ensuring that we are always up to date with the latest industry developments and best practices.



Site Forms & Electronic Reports

Alliance provides electronic reports – a feature designed to streamline processes and enhance convenience for our clients. This minimises turnaround times expediting the decision-making processes.

This approach not only saves valuable time but also reduces the administrative burden on our clients, allowing them to focus on their core operations with confidence.

Our commitment to utilising cutting-edge technology underscores our dedication to providing unparalleled service tailored to meet the evolving needs of our clients.





alliance

Unearthing Practical Solutions