



CAPABILITY STATEMENT



A Specialised Delivery



DELIVERING SPECIALISED RESULTS

ARC Laboratory Services is an independent NATA accredited testing laboratory based in Perth, Western Australia. Our purpose designed facility in South Guildford provides testing services to the quarrying, mining, and civil construction industries.

ARC Laboratory Services are experts in testing:

AGGREGATE

ROCK

CONCRETE

We are committed to delivering specialised testing results to improve project outcomes with confidence.



AGGREGATE

AS 1141, ASTM AND ROAD AUTHORITY METHODS

The foundation of ARC was built around aggregate testing. Our testing meets Australian Standard Specifications as well as State Road Authority Specifications. Aggregate materials form the basis of a range of products. Our assessments of these aggregates can greatly influence the end quality of these products.

Our in-house NATA Accredited services include:

- Petrographic Analysis
- Polished Aggregate Friction Value
- Alkali Silica Reaction (Mortar Bar)
- Durability Testing, including:
 - » Degradation
 - » Soundness
 - » Abrasion
- Aggregate strength with Wet Dry Strength Variation and Aggregate Crushing Value
- Chemical Analysis, including:
 - » Chloride
 - » Sulphate
 - » Light Particles
 - » Organics
- Classification including finer than 2 μ m and Methylene Blue
- Crushing Services



CONCRETE

AS 1012, ASTM, BS-EN AND ROAD AUTHORITY METHODS

Using high-end test equipment alongside custom-built curing and testing rooms, ARC can deliver test reports with expert accuracy. The testing covers a range of products including concrete, mortar, grout, shotcrete, admixture designs and cement with supplementary cementitious materials.

Our services include both fresh concrete testing and durability assessments for investigations on hardened concrete.

Our in-house NATA Accredited services include:

- Compression Testing, including:
 - » Modulus
 - » Round Panel
 - » Flexural Compression
- Concrete Mix Designs for Product Approval, including:
 - » Admixtures
 - » Shotcrete
- Mortar and Grout
- Investigation Testing, including:
 - » Petrography
 - » Chloride
 - » Permeability and pH
 - » Carbonation
 - » UPV
 - » Absorption
- Drying Shrinkage
- Schmidt Rebound Hammer



ROCK

AS 4133, IRSM, ASTM

Our rock testing services determine the strength and durability of our clients' rock samples. ARC ensures accurate testing with efficient turnaround times.

Our in-house NATA Accredited services include:

- Rock Sawing, Cutting and Grinding
- Strength Testing, including:
 - » Unconfined Compression (>50 MPa and <50 MPa)
 - » Brazil Splitting
 - » Point Load
- Durability Testing, including:
 - » Slake Durability
 - » Absorption
 - » Resistance to Salt Attack
- Minerology including Petrographic Analysis
- Moisture Content and Porosity



SOIL

AS 1289, STATE ROAD AUTHORITY METHODS

Soil testing for classification and chemical analysis is available in our facility.

Our in-house NATA Accredited services include:

- Particle Size Analysis
- Atterberg Limits
- Calcium Carbonate Testing

In conjunction with our partner company, Western Geotechnical & Laboratory Services, we can offer a comprehensive range of soil testing on request.



CONTACT US

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Respecting the custodians of the land ARC Laboratory Services acknowledges the Traditional Custodians of the land that is proposed to be worked on, and we pay our respects to their Elders past and present. We extend that respect to Aboriginal and Torres Strait Islander peoples on the Land, and throughout this great nation.

www.arctesting.com.au

