



**YARRA
GEOTECHNICS**

CAPABILITY STATEMENT | 2026

Managing ground risk. Unlocking project opportunity.

Practical geotechnical investigation,
factual reporting, interpretive reporting
and geotechnical design for projects
where managing subsurface
uncertainty matters.



Site Investigation | Interpretive Reporting | Geotechnical Design
Landslip Risk Assessment | Land Capability Assessment

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Melbourne-based | Supporting projects across Australia

Yarra Geotechnics Pty Ltd | ABN 25 675 840 810

Ground information clients can act on

Yarra Geotechnics helps project teams understand ground conditions, manage geotechnical risk and identify practical opportunities for safer, more efficient design and construction.

BUSINESS PROFILE

A director-led geotechnical consultancy providing targeted site investigation, disciplined field coordination, laboratory testing coordination and clear reporting for residential, commercial and infrastructure projects across Australia.

We turn ground uncertainty into practical project inputs, including foundation options, design parameters, construction constraints, tender risk, council documentation and construction advice.

Typical outputs include investigation scopes, borehole and test pit logs, laboratory testing coordination, foundation advice, earthworks parameters and council-ready reporting.



TECHNICAL LEADERSHIP

Principal-led technical review

Principal Geotechnical Engineer Sam Ghafari brings B.Eng, M.Eng, CPEng and RPEV credentials to Factual Reporting, Interpretive Reporting and design advice.

WHY CLIENTS ENGAGE US



Where we add judgement

- variable fill, soft ground and uncertain founding conditions
- shallow rock, basalt, alluvium, reactive clays and groundwater
- constrained access, live roads, rural sites and sensitive locations
- EMO, LRA, LCA and site classification requirements

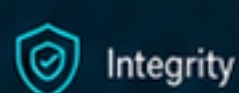


What clients can expect

- right-sized investigation scope for the project stage and risk
- safe field coordination: BYDA, service locating, permits and SWMS
- clear logs, factual records and laboratory results
- Interpretive Reporting for design, tendering and construction



CORE VALUES



Integrity



Reliability



Inclusion



Sustainability



Social impact

Our values guide honest advice, safe field practice, disciplined review and long-term client relationships.

CORE CAPABILITY

Capability across the project lifecycle

Practical geotechnical support from early risk review and investigation scoping through to Factual Reporting, Interpretive Reporting, design inputs, construction support and council-ready residential documentation.



01

Review

objectives, drawings, constraints and risks

02

Scope

methods, depths, locations and testing

03

Investigate

fieldwork, sampling, testing and logs

04

Report

Factual Reporting, Interpretive Reporting and parameters

05

Support

design, tender, construction and approvals



Site Investigation & Factual Reporting

Desktop review, access and safety planning, BYDA/service locating, boreholes, test pits, hand augers, SPT, DCP, U63 sampling, groundwater observations and AS 1726 logging.



Interpretive Reporting & Advisory

Ground models, design parameters, foundation options, seismic site class, soil aggressivity, groundwater, constructability, due diligence and practical geotechnical advice.



Foundations & Geo-structures

Shallow and deep foundation recommendations, bored and screw piles, uplift and lateral pile inputs, retaining walls, cut slopes, batters and working platforms.



Pavements, Earthworks & Materials

Subgrade assessment, CBR and compaction testing, shrink-swell and dispersivity assessment, material reuse, cut/fill, pavement inputs and soil disposal support.



Slope Stability & Landslip Risk

AGS-aligned landslip risk assessments, qualitative risk to property, quantitative risk to life, EMO support, drainage, stabilisation and footing advice.



Land Capability & Residential

Site classifications, soil reports, permeability testing, LCA reports, wastewater land application areas, water/nutrient balances and council-ready documentation.

METHODS AND OUTPUTS



Field methods

Boreholes, test pits, hand augers, DCP, SPT, U63 sampling and HQ coring



Laboratory/testing

NATA-coordinated soil and rock testing, CBR, triaxial, shrink-swell, Emerson Class, aggressivity and thermal resistivity



Client outputs

Investigation scopes, logs, figures, factual records, ground models, design parameters and construction-phase advice

PROJECT PROOF

Evidence that matches real project conditions

Selected examples show Yarra Geotechnics delivering field coordination, investigation, laboratory testing and interpretive advice for projects with design and construction consequences.



RENEWABLE ENERGY / TRANSMISSION

Golden Plains Wind Farm OHL

Consolidated Power Projects

21 designated overhead line pole locations; boreholes to approx. 8.2–12.0 m; SPTs, soil and rock sampling, NATA testing and deep foundation design support.



POWER INFRASTRUCTURE

Hazelwood Terminal Station

AusNet Services

12 boreholes to 15 m and 4 test pits to 3 m; U63 sampling, in-situ thermal resistivity, electrical resistivity, soil aggressivity, groundwater and soil disposal classification.



TRANSPORT INFRASTRUCTURE

Point Cook Intersection Upgrade

BMD Constructions

6 boreholes, 5 test pits, night drilling under traffic constraints, U63 sampling, HQ basalt coring, CBR/compaction and rock-strength testing.



BATTERY ENERGY STORAGE

Yanco & Joel Joel BESS

ACLE Services

BESS programs with 8 boreholes and 6 test pits at each site, DCP, CBR, thermal resistivity and foundation advice.



WATER INFRASTRUCTURE

Barwon Water + Lyndhurst WTP

BILD Group / Hydroflux Epco

Deep boreholes, SPTs, U63 and pocket penetrometer testing, site classification, seismic and foundation advice.



PUBLIC REALM / HILLSIDE

Retaining walls, LRA & LCA

Council-facing and private projects

Retention parameters, drainage and earthworks inputs; AGS-aligned landslip risk, permeability, wastewater and council-ready reporting.



Capability proven across sectors

Energy, power, transport, water, local government, commercial and residential projects — from early investigation scope through to design parameters, tender support and construction phase advice.

SECTOR CAPABILITY

Where we add value

Yarra Geotechnics supports infrastructure teams, contractors, designers, asset owners, councils, developers and private clients with the ground information and practical advice needed to keep decisions moving.



Renewable energy & BESS

Boreholes, test pits, SPT/DCP/U63 sampling, CBR, shrink-swell, thermal resistivity and foundation advice.



Power & transmission

Terminal stations, OHL foundations, electrical/thermal resistivity, soil aggressivity and earthworks advice.



Roads, pavements & transport

Traffic-constrained investigations, night works, basalt profiles, pavement subgrade, CBR/compaction and rock strength inputs.



Water & utilities

Water treatment, sewer protection slabs and utility works requiring deep investigation, groundwater and foundation advice.



Local government & public realm

Retaining walls, parks, heritage-sensitive assets and council works needing bearing, retention and drainage inputs.



Residential, hillside & LCA

Site classification, landslip risk, land capability, wastewater land application, drainage and council-ready reporting.

PROJECT-FACING OUTCOMES

Better ground information. Better project decisions.

The value is not only in collecting data - it is in turning ground conditions into clear choices for design, approvals, tendering and construction.

- **Right-sized investigation** — Scope reflects project stage, ground risk, proposed structures and available access.
- **Usable design parameters** — Ground models, bearing, settlement, pile, pavement, retention and drainage inputs.
- **Construction-aware advice** — Recommendations consider staging, traffic, rural access, excavation and buildability.
- **Approval-ready documentation** — Reporting supports council, designer, contractor and asset-owner decision making.
- **Clear implications** — We communicate what the ground conditions mean - not just the data collected.



HOW WE WORK

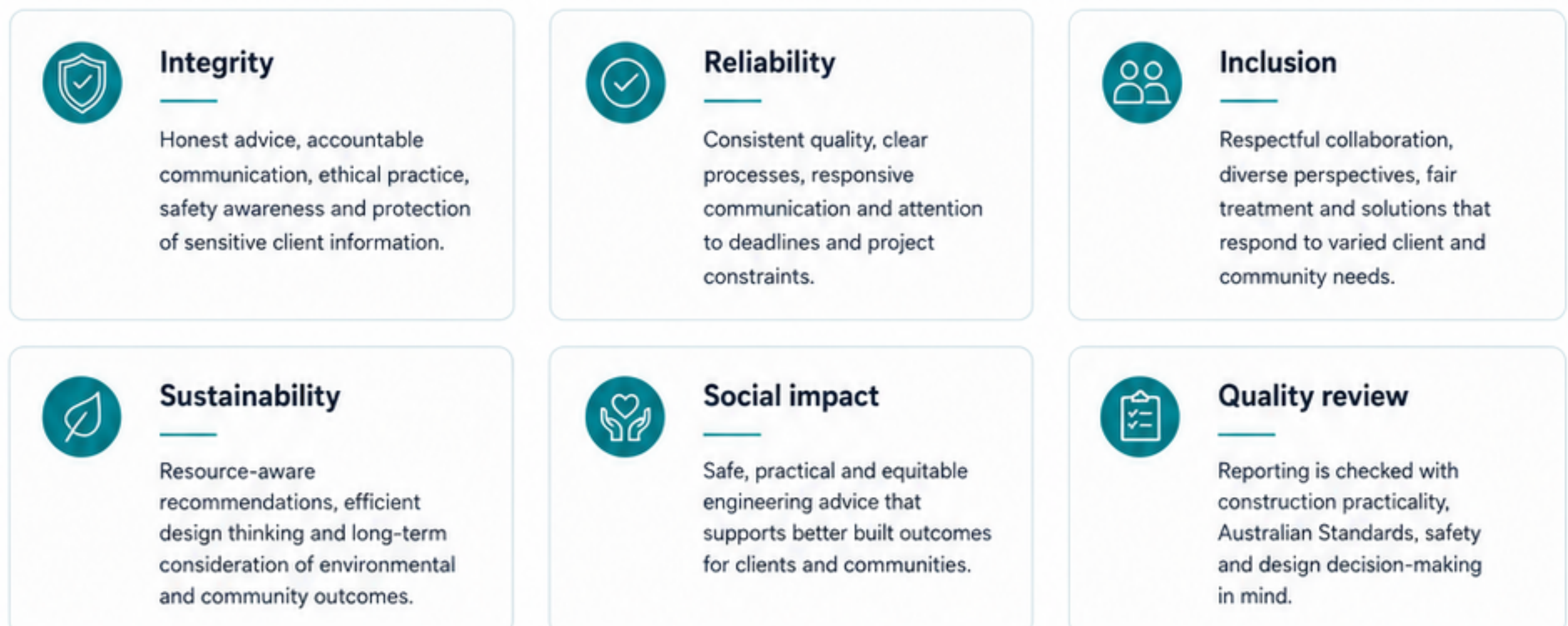
A disciplined process for practical outcomes

We focus on the decision to be made, then scope and deliver the right level of investigation, testing, interpretation and review.

DELIVERY MODEL



VALUES IN PRACTICE



Ready to discuss your project?

Send the location, drawings, proposed development details and any council, designer or contractor requirements.

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