

Underground Coal Mining – Geotechnical

Underground Coal Geotechnical Capabilities

- Conceptual, scoping, pre-feasibility & feasibility studies
- Longwall panel layout design & review
- Pillar size design and review
- Geological and geotechnical hazard identification & risk assessment
- Identification, analysis, assessment and interpretation of poor roof and floor conditions based on geological, geotechnical & monitoring data
- Geological/Geotechnical Hazard Plans
- Flight plans for longwall retreating through fault(s)
- Primary & Secondary Ground Support Design including QA/QC of installation
- Longwall installation road ground support recommendations, monitoring & review
- Gate road longwall retreat support and monitoring
- Review and Gap analysis of Strata Control Principal Hazard Management Plan
- Geotechnical Instrumentation Monitoring & Stability Assessments
- Review and proposed strata monitoring and establishing a strata monitoring database
- Ground water monitoring, instrument installations, data calculation & analysis
- Underground inspection and secondary support recommendation
- Engineering geology data collection and analysis for projects

- Eaglefield, Peabody Bowen Basin (QLD)
- Utah Mines, BHP (Goonyella and Blackwater) (QLD)
- Mae Moh, Thailand
- El Cerrejon, Colombia, South America
- Lalat Prospect, Mindanao Coalfield – Philippines

Key Underground Coal Team Members

DR PETER FULLER

Consultant Geotechnical Engineer

Peter has over 39 years experience in both open cut and underground coal and metalliferous mines. He has been involved in applied research into mine stabilisation and ground/strata control. Peter consults to mining companies and operations on a vast range of assignments including, studies, geotechnical input to design, due diligence, numerous reviews and expert witness.

IAN HULLS

Geotechnical Services Manager

Ian has over 40 years experience in the industry. His experience includes Underground Mining – Coal, Surface Mining – Coal, Underground Tunnelling, Underground Mining – Metalliferous, Surface Mining – Metalliferous, Instrumentation, Materials Testing and Research and Development.

Operational Experience & Projects by Mining One Personnel

- Kestrel, Underground Coal Mine, Rio Tinto (QLD)
- Waratah Coal – South Alpha Project (QLD)
- Tambang Air Laya Coal Mine (Indonesia)
- Anglo Coal - Capcoal (QLD)
- State Coal Tourist Mine (VIC)
- Muswellbrook Coal Company (NSW)
- Grasstree Mine Project – Anglo Coal Australia (QLD)
- Illawarra Coal – BHP Billiton (NSW)
- Newstand Underground Mine – Centenary Coal (NSW)
- Oaky Creek Underground Mine (QLD)
- Rolleston, Xstrata Coal Queensland (QLD)
- Collie (WA)
- Mt Owen, Xstrata (NSW)
- Driffield Mine, HRL (La Trobe Valley, VIC)

ABOUT US

Mining One is an exciting team of highly experienced and professional mining, geotechnical geological and hydrogeological consultants offering excellence in service and commitment to their clients with high level strategic, hands on practical design and implementation.

Our well respected team has extensive industry knowledge and experience in a diverse range of disciplines.

With our engineering knowledge and skills using a variety of software packages we are able to provide safe, cost-effective and problem solving solutions which reduce mine operating costs, increase productivity and maximise economic extraction.

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