

## Coal – Mining & Geotechnical

### 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.

For more information on any of our services please visit at:

[www.miningone.com.au](http://www.miningone.com.au)

### Mining

- Conceptual, scoping, pre-feasibility and feasibility studies
- Design and implementation of pre-strip dig and dump plans
- Open-cut mine optimisation, design and scheduling
- Design and implementation of dragline and dozer push plans
- Mine planning and scheduling, conceptual and long term
- Audits and reviews – safety, insurance and costs
- Contract documentation, supervision and auditing
- Design and implement drill and blast plans
- Short and medium term planning for overburden movement
- Project management
- Mine rehabilitation

### Geotechnical

- Pit slope stability analysis and design, including numerical stress modelling
- Excavation monitoring design using state-of-the-art systems
- Conceptual, scoping, pre-feasibility and feasibility studies
- Geotechnical reviews and audits
- Stability assessment of natural slopes and waste dumps
- Ground awareness and geotechnical hazards training
- Geotechnical data collection training
- Civil geotechnical investigations

### Geology

- Competent people qualified under the JORC Code
- Independent Experts qualified under the VALMIN Code and with ASIC Regulations
- Conceptual, scoping, pre-feasibility and feasibility studies
- Mineral Resource and Ore Reserve Estimation
- Valuation of mineral assets
- Prospectus preparation
- Independent Expert (Geologist) reports
- Due diligence for mergers and acquisitions
- Exploration program management
- Geological logging and database preparation

### Relevant Coal Projects

- Anglesea Coal Mine (VIC) – Investigation, design and installation of ground movement and groundwater instrumentation, LOM Planning, Budgets.
- Yallourn Coal Mine (VIC) – Southern Batters slope stability geotechnical review and a review of factors leading to a major failure of the Latrobe River Batters
- Rolleston (QLD) - Cut/fill stability assessment and design
- Loy Yang/Yallourn and Morwell (VIC) - Excavation, transportation and bunkering of coal and dumping of overburden, fire and water services artesian de-watering, mine rehabilitation
- Leigh Creek Coal Mine (SA) – Investigations and stability analysis of large-scale open-pit wall failure, including numerical stress modelling, design and implementation of monitoring program to ensure safe ongoing operation of the pit, ongoing regular reviews, Mine Planning, Budgeting.
- Bengalla Coal Mine (NSW) – Slope stability analysis of lowwalls and dragline benches and regular reviews
- Hazelwood Coal Mine (NSW) – Regular geotechnical reviews
- Eaglefield Coal Mine (QLD) – Geotechnical reviews and stability analyses
- BHP Mitsubishi Alliance (QLD) - Geotechnical Engineering support, review of the in-pit water stability management issues, hydrogeological drilling, installations, review and reporting.
- Anglo Coal Dawson site/projects (Central Queensland) - Pit & Dump stages design includes its schedules, setting up TALPAC template for cycletime calculation.
- Abadi Projects, Coal FE Resources (Indonesia) - JORC report for optimisation
- Gunung Bryan Project, PT. Petrosea, TBK (Indonesia) - providing 3 months Rolling Plan, prepare monthly claim, profit and loss monthly report.