

ABOUT US

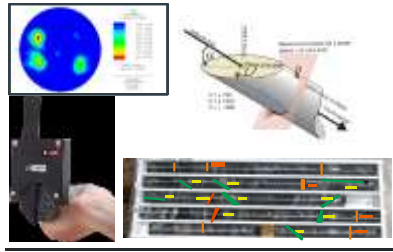
Mining One is an exciting team of highly experienced and professional mining, geotechnical geological and hydrogeological consultants offering excellence in service and commitment to their clients with high level strategic, hands on practical design and implementation.

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

Open Pit Geotechnical Data Collection



Geotechnical Data Collection

Data Collection

- Geotechnical drill hole design for pre-feasibility and feasibility studies
- Drill rig supervision, oriented core logging and training loggers
- Piezometer installation, monitoring and piezometric analysis
- Provision of experienced loggers, geologists and hydrogeologists
- Collection, packing, storage and management of soil and rock core samples for laboratory testing
- On-site point load testing service
- Rock mass and structural characterisation, domain modelling, stability analysis and pit design
- Provide QA/QC and validation of the geotechnical data
- Submit factual report, drillhole and core logging database, core photographs and laboratory test results

Photogrammetry and Structural Mapping

- 3D photogrammetry pit wall mapping data collection
- Scanline and window mapping data collection
- Data processing, analysis and structural interpretation using Adam Tech 3DM Analyst software
- Stereoplot analysis using DIPs software and structural interpretation

Microseismic Monitoring

- ESG (Engineering Seismology Group), an extensive suit of equipment, software and services
- Delivering real-time feedback on stress conditions, fracture migration, extraction methods
- Determine location, time and size of seismic events
- Optimize ground support design

Relevant Projects

- Rio Tinto Iron Ore Mines (WA) – Site geotechnical support, slope stability analysis, preparation of procedures and systems, training and mentoring
- BHPBIO Whaleback and Area C Iron Ore (WA) - Acting Superintendent /Senior Geotechnical Engineer: site support including geotechnical pit designs and mine operations support, establishment of Ground Control Management Plan and reporting systems, Detailed geotechnical open pit design for Area C (various pits), Whaleback Mine, geotechnical engineering support
- ERA Ranger Mine (NT) - Structural study, photogrammetry data collection, processing using Adam Tech 3DM Analyst software, major and minor structural interpretations
- Newcrest Gold Wafi-Golpu (PNG) - Drill rig supervision, geotechnical core logging and sampling, core logging
- BHPBIO Marillana Iron Ore (WA) - Drill rig supervision and geotechnical core logging and sampling, program planning, rock mass data analysis, sample lab testing
- BGL Bullabulling – Gibraltar (WA) - Geotechnical site investigation, reduction of historical geotechnical core logging data, geotechnical rock mass and structural data analysis, stability analysis, pit design and pre-feasibility study report