

## 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)

# Open Pit Instrumentation and Monitoring



The Technical Services Division at Mining One has a unique blend of seasoned professionals with extensive "hands on" experience in a variety of locations and environments. We can perform all aspects of a successful measurement or monitoring project from design and planning to implementation, data analysis and final reporting. These combinations make us a One Stop Shop for all your Geotechnical Instrumentation and Monitoring needs.

## Open Pit Geotechnical Capability

### Slope Stability Monitoring

- Seismicity Monitoring
- SMART Cables
- Closure Monitoring
- TDR's
- MPBX
- Equipment Installation
- Monitoring
- Analysis
- Data Review and Interpretations
- Prisms
- Radar

### Water Monitoring Open Pit Planning

- Installations
- Monitoring (hand held, data logging)
- Analysis
  - Borehole Piezometer
  - Pressure Transducer

### Ground Control Management Plan

- Independent third party auditing GCMP
- Development of GCMP's

### Ground Support (QA/QC, etc)

- Independent Audits
- Ground Awareness Training
- Non-destructive Testing
- Pull Testing
  - Rock Bolts
  - Cable Bolts

### Stress Measurement Programs and Stress Monitoring

- HI Cell
- Hydrofracturing
- Borehole Slotter

### Video Inspections

- Bore hole observations

## Relevant Projects

- BMA Bowen Basin (QLD): Water Standoff Project. Open Pit Land Bridge Monitoring.
- Mt Keith, WA: Robotic prism monitoring, introduction of slope stability radar to the metalliferous mining industry, Geobruigg catch fence design and implementation, geotechnical team leaders and staff.
- Kidston Mine QLD: Provision of geotechnical team, instrumentation and monitoring of major pit wall failure.
- Yallourn Mine, Vic: Instrumentation and monitoring of ground water and slope movements.
- Anglesea Mine, Vic: Instrumentation and monitoring of ground water and slope movements, ongoing geotechnical stability assessments.