

# PROJECT, CONCEPT AND FEASIBILITY STUDIES

Add value to your operation, add confidence  
to your investment decision



Exploration Management  
Due Diligence and Technical Reviews  
Project, Concept and Feasibility Studies  
Environmental Planning and Approvals  
Risk, Insurance and Safety Management  
Infrastructure and Project Management  
Operations Planning, Design and Scheduling  
Resource Evaluation and Geological Modelling  
Business Optimisation, Financial Modelling and Cost Reduction

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Xenith's worldwide team of over 40 mining engineers, business analysts, infrastructure specialists, environmental scientists and geologists have wide-ranging technical and operational experience in many commodities and mining methods and specialise in the economics of mine planning in relation to mine design, operational improvement studies, property valuations, due diligence studies and strategic reviews.

Use of mine planning software forms an integral part of the consulting project work to achieve cost effective, innovative solutions. Xenith's services are internationally recognised and are supported through offices in Brisbane, Sydney, Singleton, Johannesburg and Jakarta.

Feasibility studies have been undertaken for mining projects around the world. The evaluation of a mining project from exploration through development and production is a lengthy and complicated process. The technical feasibility and economic viability of each project are determined during the phases of mine development with more detailed engineering data required at each stage with typically three levels of study (scoping or conceptual, pre-feasibility and feasibility). Feasibility studies are undertaken with specialists in geology, geostatistics, mine

engineering, process engineering, geotechnical, environment, infrastructure, costing and mineral economics to produce a concise, cohesive study for the client.

## Fields of Expertise

**Feasibility Studies** – Xenith specialise in mine feasibility studies. The “bankability” of our work has long been recognised by mining houses, financial institutions and resource industry investors. Xenith's Consultants are experts in geology, mining engineering, infrastructure, environmental and financial analysis. For other specialist areas such as geotechnical, hydrological, product specification and markets Xenith call on a number of highly regarded business associates as required.

**Concept, Pre-feasibility and other** – The mining group provides a diverse range of services in the fields of mine design, mine

planning, mine operation and mine evaluation. As well as feasibility studies Xenith regularly carries out the following studies:

- Conceptual studies, pre-feasibility and feasibility examinations
- Mining method assessment
- Equipment selection
- Final landform design and rehabilitation planning
- Underground mine design and scheduling
- Due diligence studies
- Open pit mine optimisation, design and scheduling
- Mine services design
- Truck haulage analysis
- Mine infrastructure design
- Formulation and implementation of planning systems and processes
- Mine closure planning
- Business analysis and strategic planning



**BRISBANE**  
Level 6, 40 Creek Street,  
Brisbane Qld 4000, Australia  
GPO Box 993, Brisbane QLD 4001 Australia  
p: +61 7 3835 3900 f: +61 7 3835 3999  
www.xenith.com.au info@xenith.com.au

**SYDNEY**  
Level 26, 259 George Street  
Sydney NSW 2000  
p: +61 2 8248 1264  
m: +61 408 969 917  
www.xenith.com.au

**HUNTER VALLEY**  
Suite 4, 106 John Street  
P O Box 1169  
Singleton NSW 2330  
p: +61 2 6572 2878  
www.xenith.com.au

**JOHANNESBURG**  
2nd Floor, West Tower,  
Maude Street, Nelson Mandela Square  
PO Box 785553, Sandton 2146, South Africa  
p: +27 11 881 5677 f: +27 11 881 5611  
www.xenith.com.au