

# MINING

**With a history in mining spanning more than two decades and a global reputation for quality delivery, Royal HaskoningDHV specialises in all aspects of mining consultancy.**

Fast becoming the consultant of choice for mining and investment companies Royal HaskoningDHV offer the industry something different - a more professional and flexible approach to consultancy, through a modern, forward-thinking, and efficient team of experts.

We offer a broad range of services, including:

- Feasibility Studies
- Due Diligence and Investment Reviews
- Compliant Resource/Reserve Reporting
- Cashflow Modelling and Project Valuations
- Operational support
- Project Management Services
- Environmental and Social Consulting
- Material Handling and Support Infrastructure
- Front End or Detailed Engineering Design
- Asset Management & Optimisation
- Capital and Operating Cost Databases

We act as advisors and partners, preferring to work collaboratively with clients. Collectively we provide comprehensive expertise in geology, mine design, geotechnics, hydrogeology, mineral processing, infrastructure design, financial evaluation, E&S, risk, and project management.

Ranked globally in the top 10 of independently owned, non-listed companies and in the top 40 overall Royal HaskoningDHV has more than 100 offices in 35 countries, 6,000 staff and a turnover in excess of £500 million.

We conduct some 30,000 projects every year in planning and transport, infrastructure, water, maritime, aviation, industry, energy, mining and buildings.

Royal HaskoningDHV has over 135 years of experience, defining a proud heritage of bringing leading expertise and innovation to the market the company provides the next exciting step in working towards 'Enhancing Society Together'.

[royalhaskoningdhv.co.uk/mining](http://royalhaskoningdhv.co.uk/mining)

For the Lephalale Coal & Power Pre-Feasibility Study

...We found their understanding of the relevance of project risk, openness to provide sound technical advice, and exacting standard of professionalism extremely refreshing and consider their approach to be night and day relative to the more traditional philosophy... *Mr. Doug Gain, CEO, Masimong Group*

...Their genuine desire to help us on our path to becoming a globally-recognised mining major means we wouldn't hesitate in using them again... *Mr. Ismail Cihan, Exploration Superintendent, Demir Export*

For the Ulutas Skarn Resource Statement

For the Africa Finance Corporation Due Diligence Framework

...The standard of delivery is consistently excellent and we would have no hesitation recommending them as a due diligence expert for any investment opportunity or transaction... *Mr. Osam Iyahan, Director, Africa Finance Corporation*

## Geology & Exploration

- Prospecting assistance including drill programme design, site investigation management and technical implementation through mapping, logging, sampling and test work
- Geological assessment, interpretation, correlation, and 3D-interpretation using cutting-edge modelling software
- Resource estimation and Competent Person Reports in accordance with international reporting guidelines such as JORC, SAMREC and NI 43-101



## Geosciences

- Ground investigation and data capture comprising the latest geotechnical technologies (televueing, photogrammetry) and hydrogeological studies (groundwater sampling, testing and monitoring)
- Geotechnical and hydrogeological modelling (2D & 3D), rock mass and structural characterisation, stability assessments, optimisation and design
- Mine inflow predictions, impact assessments, water balances, groundwater management strategies and closure assessments

## Mining

- Mine design with expertise in all principal techniques, including open pit and underground
- Mine scheduling, equipment determination and optimisation to meet production requirements
- Reserve estimation for surface and underground mines

## Mine Economics

- Independent expert financial evaluation for Mining Feasibility & Due Diligence
- Project Valuations (Valuation Reports to International Codes such as VALMIN); utilising Market, Income and Cost based approaches (as appropriate) for grassroots projects to operating mines, including Valuation for M&A transactions
- Cash Flow modelling and Discounted Cash Flow (DCF) Analysis & Cost Estimation (CAPEX, OPEX)

## Processing & Infrastructure

- Mineral processing evaluation, flowsheet and plant design
- Surface and underground mine infrastructure, including civils
- Detailed or Front End Engineering Design including technical drawings and design basis estimates
- Bulk materials handling and logistics chain analysis
- Tailings Management

## Environmental & Social

- Public participation, authority consultation and stakeholder management
- Baseline and specialist studies, including scoping in accordance with MPRDA, NEMA, IFC Performance Standards and Equator Principles
- Full documentation including EMPR, Permitting, ESIA findings and recommendations from specialist studies

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