



**CSA Global**  
Mining Industry Consultants  
an ERM Group company



# EXPLORATION

Delivering exploration techniques and technologies and a pathway to discovery and definition of a Mineral Resource.

CSA Global (an ERM Group company) is a geological and mining consulting company providing strategic services and advice to companies in the global minerals sector.

We have more than 35 years international experience across all mineral commodities with offices located in Australia, Canada, Indonesia, Ireland, South Africa and the United Kingdom.



## EXPLORATION

CSA Global's Exploration services team combines highly-experienced personnel with state-of-the-art techniques and technologies to provide a focused pathway to discovery and definition of Mineral Resources. Our exploration and project management expertise can take your property from concept to prospect and, with the help of our Technology, Resources, Mining and Corporate teams, on to deposit and operating mine.

We can provide expert advice, project audit, and staff mentoring at any stage of the exploration and evaluation cycle from project generation through to reserve replacement.

Given our depth of experience we can supply a complete exploration management service comprising planning, supervision, data collection, management and reporting. Or if you just require skilled field personnel we can supply contract staff to assist your team.

We have worked with all sized companies from junior explorers through to international majors and our depth of knowledge and experience enables us to tailor a genuinely value-adding solution for each client's needs, whether first pass drilling or brownfields exploration at an operating mine. Our consultants are industry leaders and can provide unique insights on the best way to develop your project, or to assess opportunities for project acquisition.

## OUR EXPLORATION SERVICES INCLUDE:

### Regional targeting and project generation

- Desktop studies, prospectivity assessment and target identification
- Metallogenic studies and basin analysis
- Structural, alteration, geophysics (including seismic) and geology reviews
- Commodity and country assessments



### Project management

- Establishment of health, safety, environment, and community systems and procedures
- Risk assessments
- Customised standard operating procedures and training
- Work program design and management of exploration
- Permitting and compliance
- Contract management
- Annual technical reporting

### Integrated data management

- Drilling and GIS database design and management
- Public domain data searches and historic data capture
- Consolidation of historical exploration data into robust validated databases
- Spatial integration of disparate data sets
- Identification and ranking of targets
- 3D modelling

### Program implementation – greenfields to mine

- Field program design, planning and logistics – experience in remote areas and international projects
- Drilling supervision and logging for exploration and resource definition
- Regional to prospect scale mapping (structure, alteration, stratigraphy)
- Integrated interpretation and geological synthesis from all data types
- Geochemical and geophysical survey planning and interpretation
- QA/QC systems and monitoring

### Expert Reporting, due diligence and geo-corporate advice

- JORC, PERC and NI 43-101 reporting (also experience in Chinese and Russian systems)
- Project Valuations (VALMIN)
- Technical audits for corporate decision making
- Input to acquisitions, mergers, stock exchange listing
- Due diligence investigations and reports
- Company announcements

### Training and mentoring

- Customised training courses
- On site or online mentoring of client teams
- Wide range of support material available

### RECENT EXPERIENCE

- Caijiaying Zn-Au Project, China - Griffin Mining
- North Kordofan, Red Sea Hills Cu - Au Projects, Sudan - QSMD
- Cu Project, Argentina - PepinNini Minerals International Pty Ltd
- Lac des Iles PGE Project, Canada - North America Palladium Ltd
- Lely Au Project, Suriname - Grassalco
- Mabilo Fe-Cu-Au Project, Philippines - RTG Mining, Sierra Mining
- Magellan Pb Project, WA - Rosslyn Hill Mining
- Semail Cu Project, Oman - Savannah Resources
- Fortnum Au Project, WA - Grosvenor Gold
- Sierra Mojada Zn-Pb-Ag Project, Mexico - Metalline Mining
- Wa-Lawra Au Project, Ghana - Azumah
- Kintyre Uranium Project, WA, Arnhem Land Projects, NT - Cameco
- Kayelekera Project, Malawi - Paladin Resources
- Kipoi Cu Project, D.R. Congo - Tiger Resources
- Regional Cu project generation, Australia and SE Asia - Antofagasta Minerals
- Padaeng Zn Project, Thailand
- Khnaiguiyah VHMS Zn-Cu Project, Saudi Arabia - Alara Resources
- Indonesian Nickel laterite projects - Solway
- Sintoukoula Potash Project, Rep. of Congo - Elemental Minerals



## About CSA Global

CSA Global delivers trusted technical services, training and independent advice to public and private mining companies, governments, industry associations, financial and legal groups around the world.

We are fully supported by our parent company ERM, a leading global provider of environmental, health, safety, risk, social consulting services and sustainability related services.

Collectively, we have more than 6,100 people in over 40 countries and territories working out of more than 160 offices globally who are helping us to deliver innovative solutions to help our clients manage and understand their sustainability challenges.

## CSA Global specialises in:



CORPORATE



MINING



RESOURCES



EXPLORATION



DATA & TECHNOLOGY



WATER

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