



A MINING ENGINEERING FIRM WITH STRONG INTERNATIONAL EXPERIENCE

Our focus is to add value to your project and company by listening to your needs, using innovative ideas, employing sound engineering, and applying an optimizing and cost-saving approach. Our team recognizes mining is a complex and multifaceted business, where a solution to each challenge may have downstream effects.



COLLECTIVE TEAM EXPERIENCE:

• 300+ Resource Estimates

with the

- 200+ Engineering Studies
- Over 20 projects into production
- 30+ Due Diligence studies
- Spanish language fluency
- Latin Amer., USA, Africa, Europe

RECENT KEY PROJECTS:

BEAR CREEK MINING, CORANI - PERU

- 22,500 tpd open pit silver lead zinc @ 5,000 MASL
- FS field investigation: geotechnical, hydrogeo, & environmental baseline
- Non-parametric geometallurgical modeling for polymetalic flotation and recovery optimization
- FS capital & operating cost estimation

TRIMETALS MINING, GOLD SPRINGS - USA

- Resource estimate for 4 separate deposit areas
- Three 43-101 resource reports
- 15,000 tpd 3 stage crush & agglomerate HLF
- Merril-Crowe gold recovery plant
- Preliminary Economic Assessment
- Metallurgical test program support

GREAT PANTHER SILVER, CORICANCHA - PERU

- Legacy high-grade underground project
- Assisted during ming acquisition process
- Performed environmental assessment and provided mitigation solutions for areas of concern
- Findings assisted in evaluating project risk and value, leading to successful project acquisition

ANFIELD, CORINGA - BRAZIL

- Surface and Groundwater management plan
- Waste rock dump design
- Environmental monitoring & ARD Management
- Mine water balance
- TSF seepage modeling
- PEA & Resource Estimate (2009 2017)

ECI EXPLORATION & MINING, INDE - MEXICO

- Restart 200 tpd underground operations
- 1,500 tpd underground expansion
- Multiple scenario PEA for econ. optimization
- Tailings dam design update & const. support
- Detailed mine planning, sequencing and flow sheet review.

LYDIAN INTERNATIONAL, AMULSAR - ARMENIA

- FS Design for: WRF design and stability analysis, pit dewatering predictions, ARD management, and closure planning related to surface water
- Study involved careful mgmt of ARD material and passive treatment, resulting in \$65M in savings compared to previous design

SERVICES:

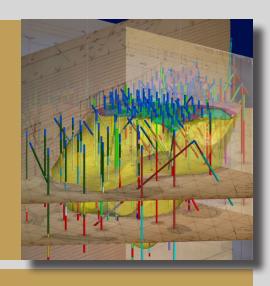


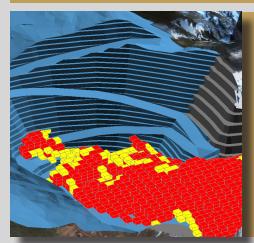
GEOLOGY & RESOURCE ESTIMATION

Exploration Sampling Program Design
Drillhole sampling & assay QA/QC
3D Geological and Structural Modeling
Mineral Resource Estimation and Technical Reports

MINING & GEOTECHNICAL ENGINEERING

Open Pit & Underground Mine Design and Engineering Mine Production and Cost Optimization Geometallurgical Modeling Rock Mechanics





PROJECT VALUATION & OPTIMIZATION

Project Due Diligence Multi-Scenario Economic Modeling Scoping Studies / PEA, PFS, FS Studies Technical Reports (NI 43-101, Guide 7, JORC) Whittle Pit Optimization

MINERAL PROCESSING

Heap Leach Pad Design Process Flowsheet Development Laboratory & Pilot Plant Test Work, Plant Audits

MINE WASTE MANAGEMENT

Conventional & Dry Stack Tailings Design
Waste Rock Facility Design
ARD Mitigation & Management
Geochemical Characterization
Mine Waste Cover Design & Seepage Modeling

HYDROGEOLOGY AND WATER RESOURCES

Groundwater Characterization & Modeling
Mine Water Balance Studies
Surface Water Engineering



SENIOR LEADERSHIP

Larry Breckenridge, P.E. - Principal Environmental Engineer Kevin Gunesch, P.E. - Principal Mining Engineer Terre Lane - Principal Mining Engineer Rick Moritz - Principal Mining & Process Engineer Todd Harvey, PhD - Director Process Engineering Luis Quirindongo - Senior Geological Engineer

GRE ASSOCIATES

Mark Smith, P.E., G.E., D.GE, S.E. - Expert Geotechnical Eng. Dave Hallman, P.E., P.G. - Expert Geotechnical Eng.

EXPERIENCE LANGUAGE

18 yrs

20+ yrs Spanish Fluent
18 yrs Spanish Fluent
30+ yrs
30+ yrs
25+ yrs Spanish Functional

Native Speaker

38 yrs Spanish Functional 30+ yrs