

Tony Hammond

**Mining Engineer
&
GIS Analyst**

Littleton, CO 80127

Hammond@Swayne.com
www.Hammond.Swayne.com

TECHNICAL SERVICES

MINING

- ❑ Mineral property review and evaluation
- ❑ Translation and interpretation of technical documents
- ❑ Computer mine models
- ❑ Resource calculation
- ❑ Mine design
- ❑ Mine planning and scheduling
- ❑ Blast design
- ❑ Project economic analysis
- ❑ Hydrologic analysis
- ❑ Geotechnical engineering

GIS

- ❑ Preparation of mineral tax reports
- ❑ Preparation of maps with spatial data
- ❑ Land ownership and mineral claims
- ❑ Database management
- ❑ Preparation of electronic maps
- ❑ Development of enterprise web-based GIS
- ❑ Integration of mining software and GIS software
- ❑ Google Earth® presentations
- ❑ CAD/GIS file conversion
- ❑ Creation of geodatabases from Internet data
- ❑ Documentation of layer data into metadata
- ❑ Interpretation of raster data

CAREER PROFILE

- ❑ 27 year experience in mining operations in the U.S. and Latin America
- ❑ Experience in multi-disciplinary, multi-cultural environments in Latin America
- ❑ Unique knowledge of the mining industry in Peru, Chile and Argentina
- ❑ Access to Peruvian mining executives and government officials at the highest levels
- ❑ Industry leader in the development of applications of GIS for the mining industry
- ❑ Analytical training and background

EXPERIENCE

2006 Mining and GIS Consultant
Gryphon Gold Corp., Denver, Colorado

2001-2005 Senior Mining Engineer/GIS Analyst
Marston & Marston, Inc., St. Louis, Missouri

1996-2000 Development Engineer
Sunshine Mining & Refining Company
Boise, Idaho

1987-1995 Project Engineer/Mine Planning Engineer/Ore Control and Blasting Coordinator
Wharf Resources, Lead, South Dakota

1982-1985 Mine Planning Engineer
Southern Peru Copper Corporation
Cujone Mine-Peru

1980-1982 Mine Foreman
Compañía Minera Milpo S.A.
Cerro de Pasco, Peru

EDUCATION

2000 Certificate in GIS – Boise State University

1987 MS Mining Engineering – South Dakota School of Mines

1980 BS Mining Engineering and Engineer of Mines– Pontificia Universidad Católica del Perú

Graduate courses in Remote Sensing, Surface Hydrology, Water-Resources Engineering and Accounting

OTHER

ESRI™ Business Partner
SME Registered Member
Professional Engineer registered in Peru

Computer Skills:

Mining Software: TECHBASE® (owner of license), GEMCOM®, Whittle 3-D® Pit Optimizer

CAD/GIS: Versed in the suite of ESRI's ArcGIS®, AutoCAD®

MS Access®

Knowledge of Visual Basic, html, asp, xml, Java, JavaScript, kml and other Web-based languages

Languages:

English and Spanish fluency;
understand, read Portuguese well