

# Lara Copper Project

Lara 45%-Owned Property in Southern Peru

#### **Forward Looking Statements**



Except for statements of historical fact relating to the Company, certain information contained herein constitutes forward-looking statements. Forward-looking statements are frequently characterized by words such as "plan", "expect", "project", "intend", "believe", "anticipate" and other similar words, or statements that certain events or conditions "may" or "will" occur. Forward-looking statements are based on the opinions and estimates of management on the date the statements are made, and are subject to a variety of risks and uncertainties and other factors that could cause actual events or results to differ materially from those projected in the forward-looking statements. There can be no assurance that such forward-looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on such statements.

The Company does not undertake to update any forward-looking statements that are incorporated by reference herein, except in accordance with applicable securities laws. For a description of material factors that could cause the Company's actual results to differ materially from the forward-looking statements, please review the Company's Management Discussion & Analysis and Financial Statements filed on www.sedar.com.

Michael Bennell, Lara's Vice President Exploration and a Fellow of the Australasian Institute of Mining and Metallurgy, is a Qualified Person as defined by National Instrument 43-101. Standards of Disclosure for Mineral Projects of the Canadian Securities Administrators, and has verified the data disclosed, including sampling, analytical and test data underlying the information or opinion s contained in the written disclosure and approved the written disclosure of the technical information in this presentation regarding the Company's projects.

#### Introduction





Lara Porphyry - Access and Drill Roads

- 1,800ha in three mining concessions
- Easy access from the coast
- Elevations range from 1,500m to 2,500m
- Cretaceous and Lower Tertiary
  Cu-Mo porphyry belt
- The belt hosts world class copper deposits and mines such as Quellaveco and Cerro Verde

#### Location and Access





- 400 km from Lima to Palpa on the Pan-American Highway (~5 hours)
- 32 km NE from Palpa on a reasonably maintained dirt road to Hornopampa (1 hour)
- 8 km to the project site on a dirt road (requires upgrading)



## Porphyry Deposits Southern Peru



# **Exploration History**





- Mapping and sampling 1995
- IP and magnetic surveys 1997 and 2011
- Several drill campaigns between 1997 and 2012 totaling approximately 9,859 m in 48 holes
- Preliminary metallurgical testwork on drill core 1998
- Inferred resource estimate 2005

Please refer to "Summary of Exploration, Metallurgy and Scoping Studies on the Lara Porphyry Copper Property and Proposed 2005 Exploration Program, Rio Viscus, Palpa, Peru" authored by John Nebocat, P. Eng. dated February 9, 2004 and revised March 31, 2005; and to "NI 43-101 TECHNICAL REPORT ON THE LARA PORPHYRY COPPER-MOLYBDENUM DEPOSIT, PERU", authored by Simon Meldrum and dated March 1, 2010.

## **Project Geology**





Coastal Batholith host rock

- Regionally the project lies within the Coastal Batholith (granodiorites and tonalites)
- Mineralization is hosted by two acid to intermediate porphyry centers, Lara and Socos
- Rhyolite porphyry dykes
- Late and esitic and dacitic dykes

# **Target Geology**





#### Lara Porphyry





Looking North to the Lara Target Area

## Alteration





#### Alteration





• Potassic, phyllic, argillic and propylitic alteration

Phyllic alteration - Lara Target

## Geology





Leached intrusive with phyllic alteration and hematite lined quartz stockwork veining

Supergene enrichment

• The typical sequence of intensely leached rock, followed by a copperoxide zone, an enrichment zone and primary sulphide ore at depth

#### Geology





Leached feldspar-porphyry with phyllic alteration and closely-spaced hematite-lined sheeted quartz veins

# **Geophysics - IP Chargeability**





# Mineralization





**Diamond Drilling** 

- Leach cap (30 m to 80 m)
- Oxide blanket with malachite, chrysocolla, azurite and black copper oxides tenorite and neotocite (5 m to 20 m)
- Supergene enriched blanket with chalcocite and minor covelite
  (10 m to 40 m)
- Primary mineralization with chalcopyrite, pyrite and minor bornite
- High pyrite-chalcopyrite ratio

# Cross Section North 8411350





# Section Lara Oxide-Supergene Zone





# Oxide, Supergene and Hypogene





# Drill Core - Supergene Zone





Leached intrusive with abundant hematite and quartz veinlets up to 10mm

## Drill Core - Oxide Zone





 Malachite and black copper oxides (tenorite and neotocite) on fracture

# Drill Core – Supergene Zone





Sericite-biotite-potassium feldspar altered intrusive with abundant disseminated chalcocite coated pyrite and chalcopyrite as well as black copper oxides (tenorite and neotocite) and minor malachite

# Drill Core – Primary Mineralization





 Sericite altered intrusive with quartz-pyrite +/chalcopyrite veinlets to 4 mm and 3 % disseminated pyrite

#### **Resource Estimate**



• 18.6 Mt @ 0.53 % Cu (0.20 % Cu cut-off)\*



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# 2007-2012 Drill Results





# **Exploration Potential**



- Extending the oxide and enrichment blanket in the area between Lara and Socos as well as at Socos
- Confirming large volume primary mineralization within the 2,000 m x 800 m target zone including Lara, Socos and the adjacent IP and geochemical anomalies



News Releases and Technical Reports

Drilling results from the Lara Project were disclosed by Lara in news releases dated January 21, 2008, January 31, 2011 and February 28, 2012, which can be found in the News section of the Company website and filed on SEDAR (www.sedar.com).

Two Technical Reports have been prepared on the project:

"Summary of Exploration, Metallurgy and Scoping Studies on the Lara Porphyry Copper Property and Proposed 2005 Exploration Program, Rio Viscus, Palpa, Peru", authored by John Nebocat, P. Eng. dated February 9, 2004 and revised March 31, 2005.

"NI43-101 Technical Report on the Lara Porphyry Copper-Molybdenum Deposit, Peru", authored by Simon Meldrum, dated March 1, 2010.

#### **Qualified Person**

Michael Bennell, Lara's Vice President Exploration and a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM), is a Qualified Person as defined by National Instrument 43-101 Standards of Disclosure for Mineral Projects and has approved the technical disclosure and verified the technical information in this Presentation.