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TSX Venture Exchange: BAJ

**PRESS RELEASE
AND CONFERENCE CALL PARTICULARS**

John Greenslade, President of Baja Mining Corp. (the “Company”), is pleased to provide the following update:

**MAJOR PROCESS HURDLE OVERCOME AT THE EL BOLEO PROJECT,
MEXICO**

The El Boleo project, located at Santa Rosalia, Baja California Sur, Mexico, is a sediment hosted deposit of copper-cobalt-zinc, with possible indium, gallium and germanium credits, in a clayey mineral matrix. The copper-cobalt and zinc values in the ore can be leached using sulphuric acid solutions in a slurry leach process. While the dissolution of the valuable metals into the leach solution is relatively straightforward, the subsequent separation of metal containing solution from leached solids has historically been challenging. In order to meet this challenge, Baja commissioned a program of work at SGS Lakefield Research (Lakefield, Canada) to test the ability to successfully carry out solid-liquid separation and washing of the barren solids. This work was overseen by Bateman Engineering and involved Pocock Industrial (Salt Lake City) and Outokumpu (Toronto) in the testing. Pocock and Outokumpu are specialists in solid-liquid separation technology.

Baja is pleased to advise that the solid-liquid separation tests conducted at SGS Lakefield Research have demonstrated that Boleo ores can be settled and washed in a conventional CCD circuit utilizing high rate thickeners.

Mike Holmes, Bateman Study Manager for the Boleo Definitive Feasibility Study, stated “The recent successful testwork on settling of diluted and flocculated Boleo leach slurries resulted in acceptable high-rate thickener area predictions for the CCD circuit at the proposed daily plant feed rate of 7500 tonnes solid per day. Underflow densities of 25% solids w/w were achieved which are typical for clays of this nature. Results were consistent across a range of six composite samples tested. The success of the solid-liquid separation testwork has removed a significant amount of the technical risk from the flow sheet.”

With the success of the solid-liquid separation testwork, Baja is now moving quickly to a first stage integrated pilot plant at SGS Lakefield in November 2004. This pilot plant will test each of the unit operations in the Boleo flowsheet in a continuous, integrated system (essentially a miniature version of the full scale plant system).

The simplified Boleo flow sheet now consists of the following steps: conventional crushing, scrubbing and grinding of run-of-mine ore, a two stage atmospheric leach, partial neutralisation, solid-liquid separation utilizing high rate thickeners, copper solvent extraction and electrowinning. After iron precipitation, the copper raffinate is then stripped of the contained cobalt, zinc and residual copper utilizing a proprietary extraction system developed by Commonwealth Scientific and Industrial Research Organization, Minerals Division (CSIRO). Zinc is stripped from the CSIRO extractant and is then precipitated as a saleable zinc sulphate. Cobalt is stripped into a highly purified solution and is then electrowon to produce cathode cobalt.

In summary, Baja has made significant technical progress in validating the Bateman process approach to treatment of Boleo copper-cobalt-zinc ores. Further pilot plant testwork will continue to build confidence in the process flowsheet selected.

A conference call will be held on Tuesday October 19th, 2004 at 8 AM Vancouver Time (11 AM Toronto, 4PM London, England) to discuss the solid-liquid separation test results for any parties that wish more details. Anyone wishing to connect to the call should dial into through the conference operator as follows:

Dial In Number(s): 604-899-2339 (Vancouver)
403-232-0994 (Calgary/Overseas)*
780-421-1483 (Edmonton)
416-883-0133 (Toronto)
514-395-9913 (Montreal)
613-212-4220 (Ottawa)

Toll Free: 1-877-385-4099 North America

*** This number should be used by European callers**

Participant Access Code: 2610527

The calling instructions for Conference call:

1. Enter the dial-in number.
2. When prompted, enter your participant access code **followed by the # sign.**
3. If your access code is invalid, please stay on the line and a TELUS teleconference agent will assist you.
4. Press * and 0 for the assistance of a TELUS Teleconference agent anytime during the conference.
5. If you require any assistance, please contact TELUS at toll free (1-877-944-6338)

**ON BEHALF OF THE BOARD OF DIRECTORS OF
BAJA MINING CORP.**

“John Greenslade”

JOHN W. GREENSLADE, PRESIDENT

For further information please contact John Greenslade, President, at (604) 685-2323 or Conrad Clemmiss or Tom Byrne in the Investor Relations Department at (604) 683-5774.

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The TSX Venture Exchange has neither approved nor disapproved of the contents of this press release.