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PRESS RELEASE
TSX-V: BM

BACTECH SECURES PROJECT MANAGER FOR PROPOSED BIOLEACH PLANT
Starts environmental assessment

Toronto, Canada, May 20, 2009 – BacTech Mining Corporation (“BacTech” or the “Company”, TSX.V: BM) is pleased to announce that it has engaged the services of Mr. Peter Secker to be Project Manager for the Company’s tailings reclamation project near Cobalt, Ontario. Mr. Secker will oversee the feasibility study for the project which will begin in July, and the subsequent construction and piloting of the demonstration plant. Construction is anticipated to begin in April 2010.

Mr. Secker is a mining engineer with 28 years’ experience in the resources industry. He has held a number of senior positions within the industry, most recently as Managing Director of Michelago Limited and CEO of JMS Mining Services. He has constructed, operated and managed mining projects in Australia, South Africa, China and the Pacific. He has also project-managed and operated two of BacTech’s bacterial oxidation treatment plants at Youanmi in Western Australia, and the BioGold plant in Laizou, China.

“We are very pleased to have retained a person with hands-on experience with respect to building and operating bioleach plants. Peter’s history in bioleaching ensures that we have a knowledgeable individual in a key position,” said Ross Orr, President and CEO of BacTech.

BacTech also reports that it has engaged an environmental company to begin a water sampling study for the Castle Mine tails located near Gowganda, Ontario. The study results will be incorporated into the baseline environmental study required to obtain permits for retreating the Castle Mine tailings.

BACTECH PROFILE

BacTech owns patented bacterial oxidation technology for the treatment of refractory ores and concentrates to enhance the recovery of gold, silver and base metals. The Company’s focus is the acquisition of equity positions in projects amenable to bioleaching. In June 2008, the Company signed an agreement to acquire Yamana Gold Inc.’s 33% interest in two refractory gold deposits in Papua New Guinea. In September 2008, BacTech signed an MOU to investigate the use of bioleaching to reprocess arsenic-laden tailings in Cobalt, Ontario. This is the Company’s first foray into the cleantech industry. BacTech is continuing to evaluate additional remediation projects.

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