

## CERTIFICATE OF AUTHOR

### Christopher Jacobs

As co-author of this report entitled “NI 43-101 Preliminary Economic Assessment Study for the Bactech Snow Lake Reclamation Project, Snow Lake, Manitoba, Canada”, with an effective date of 27 August, 2012 (the “Technical Report”), I, Christopher Jacobs, do hereby certify that:

1. I am employed as a mineral economist by, and carried out this assignment for:  
Micon International Limited, Suite 900 – 390 Bay Street, Toronto, ON, M5H 2Y2  
tel. (416) 362-5135 email: cjacobs@micon-international.com
2. I hold the following academic qualifications:  
B.Sc. (Hons) Geochemistry, University of Reading, 1980;  
M.B.A., Gordon Institute of Business Science, University of Pretoria, 2004.
3. I am a Chartered Engineer registered with the Engineering Council of the U.K.  
(registration number 369178);  
  
Also, I am a professional member in good standing of: The Institute of Materials, Minerals and Mining; and The Canadian Institute of Mining, Metallurgy and Petroleum (Member);
4. I have worked in the minerals industry for 30 years; my work experience includes 10 years as an exploration and mining geologist on gold, platinum, copper/nickel and chromite deposits; 10 years as a technical/operations manager in both open pit and underground mines; 3 years as strategic (mine) planning manager and the remainder as an independent consultant when I have worked on a variety of precious and base metal deposits;
5. I do, by reason of education, experience and professional registration, fulfill the requirements of a Qualified Person as defined in NI 43-101;
6. I have not visited the property that is the subject of the Technical Report;
7. I am responsible for the preparation of Section 22, and the portions of Sections 1, 25 and 26 summarized therefrom, of the Technical Report.
8. I am independent of BacTech Environmental Corporation, as defined in Section 1.5 of NI 43-101;
9. I have had no previous involvement with the property;
10. I have read NI 43-101 and the portions of this report for which I am responsible have been prepared in compliance with the instrument;
11. As of the date of this certificate to the best of my knowledge, information and belief, the sections of this Technical Report for which I am responsible contain all scientific and technical information that is required to be disclosed to make this report not misleading.

Dated this 11<sup>th</sup> day of October, 2012

*“Christopher Jacobs” {signed and sealed}*

Christopher Jacobs, CEng MIMMM