FORM 52-102F3
MATERIAL CHANGE REPORT

1. **Name and Address of Company**

   Solitaire Minerals Corp.
   Suite 430-609 Granville Street
   Vancouver, British Columbia V7Y 1G5

2. **Date of Material Change**

   August 14, 2007

3. **Press Release**

   The Press Release dated August 14, 2007 was disseminated via Market News Publishing and Canada Stockwatch.

4. **Summary of Material Change**
   The Company and Rubicon Minerals Corp. have returned to drilling the Red Lake North Property in Red Lake, Ontario.

5. **Full Description of Material Change**

   See attached press release dated August 14, 2007

6. **Reliance on Subsection 7.1(2) or (3) of National Instrument 51-102**

   Not Applicable

7. **Omitted Information**

   Not Applicable

8. **Executive Officer**

   Charles Desjardins, President

   (604) 683-5445

9. **Date of Report**

   August 15, 2007

Schedule "A"

Solitaire and Rubicon Commence 3,300 meter Drill Program on the Red Lake North Property, Red Lake, Ontario

August 14, 2007: Solitaire Minerals Corp. (TSX-V symbol: SLT) and Rubicon Minerals Corp. (TSX-V symbol: RMX) have returned to drilling the Red Lake North Property in Red Lake, Ontario. The planned eleven hole 3300m summer drill program will be funded by Solitaire Minerals Corp. and will target an area that runs parallel to the Blackbear Intrusive for approximately 12 km. The eleven holes will be drilled at four distinct target areas along the projected extension of a gold bearing Sericite Schist trend as determined by Rubicon Minerals Corp., the project operator.

Historical work, completed by Rubicon Minerals Corp., includes detailed ground and airborne Mag and EM (spectrum) survey, as well as drilling of three holes which confirmed the presence of the ultramafic stratigraphy and sericite schist.

The property is under option to Solitaire Minerals Corp., the Company is required to fund $2.5 million of exploration over four years (prior to May 30, 2010) to earn a 55% interest.

The Red Lake North project is separated into two distinct packages of ground:

The Red Lake North Main Block
This block which is the focus of this drill program, is directly along strike from both the Main Discovery Zone (MDZ) and Upper Duck Zone (UDZ), currently being explored by Goldcorp/Planet Exploration Inc on the Sidace Lake Property. Based on three holes drilled by Rubicon in 2005 that intersected the prospective quartz-sericite schist altered horizon as well as geophysical interpretation, the extension of gold-bearing stratigraphy that hosts the MDZ continues southwest onto the Red Lake North Main Block.

The Sidace Lake Area
The Sidace Lake Area claims are situated on the up-dip and down-dip extensions of the Goldcorp/Planet MDZ. The property is dominated by a package of Balmer assemblage mafic and ultramafic volcanic rocks which are overlain by altered intermediate sediments. Solitiare funded a deep-targeting program on this claim in the fall and winter of 2006/2007, but was limited by the depth capacity of the drill rig. A drill rig capable of reaching a depth of 2500 meters has been contracted for late September 2007 for planned follow-up drilling.

Terry Bursey, P.Geo, a qualified person under National instrument 43-101 will advance the Red Lake North project.

About Solitaire Minerals Corp. Solitaire Minerals Corp. (TSX-V symbol: SLT) is a diversified junior Canadian mineral exploration company with a specific focus on mineral properties in North America. The Company has assembled a portfolio of precious and base metal exploration prospects in Ontario, Saskatchewan, Alberta, and the North West Territories. Solitaire's Ontario properties in the Red Lake/Birch-Uchi Greenstone Belt include the Baird, Heyson and Chukuni River Prospects, in which the Company has agreements to earn 100% in, but has not yet vested its interest. In addition, the Company has entered into an option agreement with another company, whereby that company may earn up to a 75% interest in the Baird Property. The Company also has an option to earn 100% in the Lateral Lake West property located in the Webb township of Ontario. In Saskatchewan, the Company has signed a purchase agreement to acquire a 100% interest in the Highrock Lake property and a 90% interest in the Riou Lake Property located in the Athabasca Basin. The Company has also acquired the Riou Lake North and South properties in which the company has 100% interest. In Alberta, the Company has purchased the Ravenscrag property in which the Company has 100% interest. In the North West Territories, the Company has purchased the Mystery Island IOCG Property located in the Great Bear Lake area in which the Company has 100% interest. Also in the NWT, the Company acquired the Eldorado property located in the Great Bear Lake area in which the Company has 100% interest.

For additional information please contact Solitaire Minerals Corp. or visit www.solitaireminerals.com.

On Behalf of the Board of Directors
SOLITAIRE MINERALS CORP.
"Charles Desjardins"

Charles Desjardins,
President and Director

The TSX Venture Exchange has not reviewed and does not accept responsibility for the adequacy or accuracy of this release. Statements in this press release other than purely historical information, historical estimates should not be relied upon,including statements relating to the Company's future plans and objectives or expected results, are forward-looking statements. News release contains certain "Forward-Looking Statements" within the meaning of Section 21E of the United States Securities Exchange Act of 1934, as amended. Forward-looking statements are based on numerous assumptions and are subject to all of the risks and uncertainties inherent in the Company's business, including risks inherent in resource exploration and development. As a result, actual results may vary materially from those described in the forward-looking statements.