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**News Release**

**MANICOUAGAN MINERALS COMMENCES AIRBORNE GEOPHYSICAL  
SURVEY ON PICKLE LAKE GOLD PROPERTIES**

**- UPDATE ON WINTER HOUSE GOLD AND HPM/FORGUES NICKEL  
PROPERTIES**

**- STOCK OPTIONS GRANTED**

**TORONTO, June 18, 2009 - Manicouagan Minerals Inc. (TSXV – MAM)** is pleased to provide an update on its exploration programs:

***Pickle Lake Gold Properties - Airborne Geophysical Survey***

Manicouagan Minerals Inc. has contracted with Geo Data Solutions Inc. to fly a 1,900 line-kilometre helicopter-borne aeromagnetic survey over two of Manicouagan's three Pickle Lake gold properties in Ontario. The survey is expected to be completed by the end of June.

The airborne geophysical survey will cover the entire Kasagiminnis and Pickle Lake East gold properties. The survey will assist in the identification of mineralized structures that control the known gold mineralization on the properties. Manicouagan's Dorothy-Dobie Lake Property, also in Pickle Lake, was flown in 2007 by Trillium North Minerals Ltd.

Field programs are currently being developed to follow up on the known gold occurrences located on all three properties including the Dobie West and Tonsil Lake Zones drilled by Bond Gold (now Barrick) in the late 1980's that are thought to represent the strike extension of the past producing Golden Patricia Mine.

Manicouagan can earn up to a 70 percent interest in the Kasagiminnis, Pickle Lake East and Dorothy-Dobie Lake properties pursuant to an option agreement with Trillium North. (See *MAM Press Release dated April 16, 2009.*)

The Pickle Lake gold properties consist of three non contiguous claim groups known as the Pickle Lake East Property, the Kasagiminnis Property, and the Dorothy-Dobie Lake Property. Collectively the properties cover an area of approximately 77.41 square kilometres. The properties are located in the Pickle Lake Greenstone Belt, which is part of the prolific Uchi Geological Subprovince

having historically produced over 30 million ounces of gold. The Pickle Lake area includes four past producing mines: Golden Patricia (0.45Moz at 19.9 gpt Au), Dona Lake (0.21Moz at 8.6gpt), Central Patricia (0.65Moz at 12.0gpt) and Pickle Crow (1.45Moz at 16.1gpt). A sketch showing the location of the properties is available at [www.manicouaganminerals.com](http://www.manicouaganminerals.com).

### ***Winter House Gold Property – Reconnaissance Program Commenced***

Manicouagan has commenced a ground prospecting and mapping program at its wholly owned Winter House Gold Property in Mid-North Québec. This program will follow up on anomalies identified by the AeroTEM II airborne geophysical survey completed by Manicouagan in the spring of 2008. The Winter House Gold Property is located some 435 kilometres north of Baie-Comeau in the province of Québec.

### ***HPM/Forgues Nickel Property – Ground Prospecting and Geological Mapping Program***

Manicouagan will also be conducting a brief ground prospecting and mapping program to inspect “high priority” airborne EM anomalies identified by the AeroTEM II airborne geophysical survey completed by Manicouagan in the spring of 2008 that have not yet been followed up on.

During 2008, 17 holes were drilled at HPM/Forgues for an aggregate of 3,388 metres. Results included **43.18 meters of 1.74% nickel, 0.90% copper and 904 ppm cobalt from hole HPM-08-03** and **9.54 meters in hole HPM-08-11 which assayed 1.12% nickel, 0.23% copper and 518 ppm cobalt** at the Barre de Fer Prospect. (See *MAM Press Releases dated November 6, September 11, and August 6, 2008*).

Manicouagan has an option to earn up to a 70% interest in the HPM/Forgues property from Pure Nickel Inc. (see *MAM Press Release dated November 6, 2007*).

The HPM/Forgues property is located some 160 kilometres east-southeast of the Mouchalagane Nickel/Copper/PGE property. It is situated in NTS map sheets 22 O/11 and 22 O/12 and lies just east of highway 389, which runs between Baie-Comeau and Fermont, Québec.

Given the current outlook for nickel, Manicouagan does not expect to resume drilling at the HPM/Forgues Nickel Property this summer and will instead focus its efforts on gold exploration.

Exploration programs in the Pickle Lake Area are being carried out under the direct supervision Bruce W. Mackie, P.Geo., a consulting geologist for Manicouagan Minerals. Bruce W. Mackie, P.Geo., has reviewed and verified the

technical content of this press release on behalf of Manicouagan Minerals and is a "Qualified Person" as defined in National Instrument 43-101.

Exploration programs on the Winter House Gold property and the HPM/Forgues Nickel property are being carried out under the direct supervision of François Bissonnette, P.Geo., Senior Project Geologist for Manicouagan Minerals' projects in Québec. François Bissonnette, P.Geo., has reviewed and verified the technical content of this press release on behalf of Manicouagan Minerals and is a "Qualified Person" as defined in National Instrument 43-101.

### ***Stock Options Granted***

Manicouagan Minerals also announced today that its Board has approved the issuance of 2,090,000 options under the Company's Stock Option Plan. These options are being granted to directors, officers, consultants and employees of the Company, and are exercisable into common shares of the Company at a price of \$0.10 per share. Subject to the rules of the TSXV and the Company's Stock Option Plan, the options have a term of five years and will expire on June 18, 2014.

### ***About Manicouagan***

Manicouagan Minerals Inc. is an exploration company focused on Canadian mineral properties. Its properties include three recently acquired Pickle Lake gold properties in Ontario, the Brabant Lake Zinc deposit in Saskatchewan, and the HPM/Forgues Nickel and Mouchalagane Nickel/Copper/PGE projects, both in Québec.

Additional information about Manicouagan Minerals and its exploration projects can be found at [www.manicouaganminerals.com](http://www.manicouaganminerals.com).

Une traduction française de ce communiqué de presse est disponible à [www.manicouaganminerals.com](http://www.manicouaganminerals.com).

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*The TSXV has not reviewed this news release and does not accept responsibility for the adequacy or accuracy of this news release. The TSXV has neither approved nor disapproved the contents of this news release.*

*All statements other than statements of historical fact, included in this release, including, without limitation, statements regarding potential mineralization and reserves, exploration results, and future*

*plans and objectives of the Company, are forward-looking statements that involve various risks and uncertainties. There can be no assurance that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements. Important factors that could cause actual results to differ materially from the Company's expectations are exploration risks detailed herein and from time to time in the filings made by the Company with securities regulators.*