



NORTHERN
G O L D MINING INC.

NORTHERN GOLD MINING EXPLORATION UPDATE

Toronto, Ontario (September 3, 2008): Northern Gold Mining Inc. (TSX-V NGM) is pleased to provide an update on its exploration activities on its Kirana property in the Kirkland Lake, Ontario area and its properties in the Timmins area. Earlier this summer Northern Gold Mining announced the discovery of high-grade gold (press release July 22, 2008) in the Fidelity area on its Kirana property with grab samples assaying up to 2305.12 g/t (67.22 oz/ton). The Kirana property lies 5 kms to the northeast of the prolific Kirkland Lake gold camp, where to date more than 24 million ounces of gold have been produced. The Kirana Claim Group comprises 150 contiguous claim units, 4 patent blocks and an isolated block of 8 more claim units just south of the main group.

As described in the Aug. 14, 2008 press release an additional 1350 square metres of bedrock was exposed by surface stripping in the immediate vicinity of the high-grade discovery area. As well Northern Gold is currently stripping a new area approximately 150 metres east along strike of the discovery area where quartz veining, finely disseminated pyrite and similar alteration to that observed in the high-grade discovery area has been exposed. Channel and grab sampling on this newly stripped area will proceed immediately. Northern Gold has collected an additional 206 channel and grab samples from the newly exposed outcrops of the high-grade discovery area following the initial lot of 44 samples collected shortly after the high-grade discovery (press release Aug. 14, 2008) with assays pending.

Currently Northern Gold has two diamond drills on site testing the high-grade discovery area. A smaller drill continues to test the zone of alteration and veining associated with the previously announced mineralization at depths down to approximately 60 metres. A larger drill has begun testing the mineralization at depths down to 300 metres. Twenty three holes have been completed to date for a total of 2,480 metres drilled. Of the completed holes, 22 are from the shorter hole program and one is the first of the planned longer hole program. Ten of the holes have been logged and sampled to date, a rate that should speed up soon as additional personnel are engaged to meet the demands of the accelerated pace of diamond drilling. A total of 298 core samples have either been sent to or are currently being prepared to be sent to Polymet Laboratories in Cobalt, Ontario for analysis.

Northern Gold is currently running an 88 line km Induced Polarization (IP) geophysical survey across the full strike extent of the Kirana property (approximately 7.5 km of Kirana Break strike length) to facilitate regional

targeting. The survey is expected to be completed in 2 weeks with significant anomalies to be drill tested.

The company has contracted a third drill to drill test both IP geophysical and MMI (Mobile Metal Ion) geochemical anomalies on three of its Timmins area properties (Pamour, Hoyle North and Matheson Central). The anomalies were identified during surveys conducted by Northern Gold during 2007. The drill is expected to be mobilized onto the site on or about September 8th. In addition to drill testing previously identified anomalies Northern Gold plans to expand the grid on all three properties and conduct an IP geophysical survey over the new grid areas with significant anomalies to be drill tested immediately.

Northern Gold has decided to terminate its option on the Skjonsby claims (4 Units) located in the Bourkes area northwest of Kirkland Lake. After careful analysis of surface and drilling results to date, consideration of various options for additional work, and its ongoing programs at other properties in its portfolio, it was determined that the property's potential no longer fit the company's strategic goals.

This press release has been reviewed by R.V. Zalnieriunas P.Geol. an independent consulting geologist who is the "Qualified Person" as defined by NI 43-101 for this project.

For further information please contact:

Northern Gold Mining Inc.

Martin Shefsky
President and CEO
Tel: (416) 366-7300
Fax: (416) 366-7301
E: mshefsky@northerngold.ca
Web site: <http://www.northerngold.ca>

Jeffery Boykin
VP Investor Relations Regulatory Affairs
Tel: (416) 366-7300
Fax: (416) 366-7301
E: jboykin@northerngold.ca

CAUTIONARY STATEMENT: The TSX Venture Exchange does not accept responsibility for the adequacy or accuracy of this release. No stock exchange, securities commission or other regulatory authority has approved or disapproved the information contained herein. This News Release includes certain "forward-looking statements". All statements other than statements of historical fact, included in this release, including, without limitation, statements regarding potential mineralization and reserves, exploration results, future plans and objectives of Northern Gold Mining Inc., 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 Northern Gold Mining Inc.'s expectations are the risks detailed herein and from time to time in the filings made by Northern Gold Mining Inc. with securities regulators.