



**NIAGARA**  
**MINING LIMITED**  
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24 March 2006

Company Announcements Officer  
Australian Stock Exchange Limited  
Exchange Centre  
Level 4, 20 Bridge Street  
SYDNEY NSW 2000

[www.asxonline.com](http://www.asxonline.com)

Dear Sir

**Re: HIGH TENOR MASSIVE NICKEL SULPHIDE ASSAY RETURNED**

We enclose herewith a copy of an announcement in relation to the above.

Yours faithfully

**Douglas C. Daws**  
EXECUTIVE CHAIRMAN

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Douglas Daws      Executive Chairman		
Chris Daws        Chief Executive Officer		
Bruno Sceresini    Non-Executive Director		
Peter Landau       Non-Executive Director		
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Enquiries concerning shareholdings should be addressed to:		The Company's shares are listed on the Australian Stock Exchange and the home exchange is Perth ASX code: NIA
Computershare Investor Securities GPO Box D182, Perth WA 6840 Tel: 61 8 9323 2000		



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ASX Announcement

24 March 2006

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## **HIGH TENOR MASSIVE SULPHIDE ASSAY RESULT**

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Niagara Mining Limited (ASX: NIA) is pleased to announce to shareholders that a **significant zone of high tenor** massive nickel sulphides has been intersected in the first deep diamond exploration hole drilled by the Company into the historic Mt Windarra (Poseidon) Mine area, 100% owned by the Company.

NMD0001 is still in progress and is currently drilling ahead to a planned depth of 900m (down-hole) which when completed will allow the Company to survey and undertake DHTM to create vectors into the high tenor massive nickel sulphide zone for targeted wedge hole drilling from NMD0001.

NMD0001 yielded the following significant result from a thick high tenor massive nickel sulphide zone approximately 130metres below the current mine development;

**NMD0001            9.82m @ 6.06% Ni(686.16 – 695.98m) downhole**  
**incl. 4.62m @ 10.33% Ni (691.36 – 695.98m)**

A second hole NMD0002 is being planned to target the down plunge extent of the high tenor massive nickel sulphides discovered by NMD0001 at approximately 150 metres vertically below the NMD0001 intersections.

The planned diamond drill hole NMD0002, if successful, will help to confirm the Company's model that a high tenor massive nickel sulphide channel has been located which has up until now has been unrecognised. It is these high tenor massive nickel sulphide channels which drive the bulk of the profits coming from mining operations such as the Silver Swan nickel mine and other high yielding nickel mines in Western Australia. With the advancement of modern exploration tools, including DHTM, the Company will be able to target the high tenor massive nickel sulphide channel to define its extent.

The above results are extremely positive and the Company looks forward to continue developing its exploration a development strategy for the Windarra Nickel Project.

Yours faithfully  
**Douglas C. Daws**  
EXECUTIVE CHAIRMAN

*Note: The information in this report that relates to exploration results is based on information compiled by Mr M Elias who is a Fellow of The Australasian Institute of Mining and Metallurgy. Mt Elias is employed by CSA Australia Pty Ltd. Mr Elias has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. The Australian Stock Exchange has not received and does not accept responsibility for the accuracy or adequacy of this release.*



Figure 2 Schematic E-W cross section looking N (not to scale) showing HIGH TENOR MASSIVE NICKEL SULPHIDE zone in D Shoot.

