



NIAGARA
MINING LIMITED
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16 June 2006

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

www.asxonline.com

Dear Sir

RE: MASSIVE NICKEL SULPHIDES INTERSECTED WED4A - WNP

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

Yours faithfully

Douglas C. Daws
EXECUTIVE CHAIRMAN

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CORPORATE DIRECTORY

Director / Senior Management

Douglas Daws	Executive Chairman
Chris Daws	Chief Executive Officer
Bruno Sceresini	Non-Executive Director
Peter Landau	Non-Executive Director
Ross Kestel	Company Secretary

Corporate Enquiries

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Shareholder Enquiries

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Principal Office

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Home Exchange

The Company's shares are listed on the Australian Stock Exchange and the home exchange is Perth ASX code: NIA

Website Address

www.niagamining.com.au



ASX Announcement

16 June 2006

Massive Nickel Sulphides Intersected WED4A - WNP

The Company is pleased to announce that exploration diamond drill wedge hole WED4A has intersected a minor zone of massive sulphides identified by field testing to be nickeliferous. WED4A was drilled to intersect a DHTEM (downhole transient electro-magnetic survey) target identified from a recent survey of an old WMC diamond drill hole.

The Company undertook DHTEM inside a previous historic diamond drill hole (WED4, drilled by WMC in 1979) located approximately 10km south of the Mt Windarra nickel mine. WED4 intersected two minor zones of high grade (17%Ni and 13.5%Ni) massive nickel sulphides. This hole had been drilled to test the Windarra komatiite contact at approximately 700 metres below surface. The intersection of the sulphides in WED4A confirms the effectiveness of modern day exploration methods and tools to locate massive nickel sulphide mineralisation which was previously very difficult to track using only the deep diamond drilling techniques available in the late 1970's.

The massive nickel sulphides in WED4A are separated from WED4 by about 25-30m. Further DHTEM is to be undertaken in this new wedged hole and it is anticipated this will enable us to track mineralisation further updip, hopefully leading to the location of a sizable zone.

Drilling of WED4A is continuing. Cutting and sampling of the core is underway and samples will be dispatched to the laboratory for assay. Assay results will be released as and when they are obtained by the Company from the laboratory.

Table 1. – Geological description of WED4A

From (m)	To (m)	Description
790	795	Ultramafic
795	795.38	Massive Sulphide
795.38	798	Ultramafic

The above result is extremely positive and bodes well for the planned wedging operations at NMD0001 at Mt Windarra. The Company looks forward to continue developing its exploration and development strategy for the Windarra Nickel Project and adding shareholder value.

For and on behalf of
NIAGARA MINING LIMITED



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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.