

ADEX ANNOUNCES PLANS FOR NORTH ZONE DEVELOPMENT IN 2010

Toronto – January 7, 2010 – Adex Mining Inc. (“Adex” or the “Company”) (TSX-V: ADE) is pleased to announce its development plans for 2010 at its Mount Pleasant Mine Property (“Mount Pleasant” or the “Property”), located in southwestern New Brunswick Canada. The Property hosts the tungsten-molybdenum bearing Fire Tower Zone (“FTZ”) and the tin-indium-zinc bearing North Zone (“NZ”). The FTZ is the site of a past-producing tungsten-molybdenum underground mining operation that was active between 1983 and 1985.

Adex is set to have another busy year in 2010 following the completion of its successful FTZ scoping study in 2008 and its equally successful NZ Preliminary Assessment (“PA”) in 2009. The 2008 FTZ scoping study arrived at a pre-tax Internal Rate of Return (“IRR”) of 27.1%, while the North Zone PA showed a 28.87% pre-tax IRR for tin concentrate, indium sponge and zinc metal production and a 23.49% IRR for tin concentrate and zinc-indium concentrate production.

The Company recently completed a flow-through financing in excess of \$1 million the proceeds of which it intends to use to undertake two separate pilot plant programs: (i) concentrate production by conventional flotation and (ii) metals production using hydrometallurgical processes. Adex has a total of approximately \$3 million in cash, including the proceeds of the flow-through financing.

The following table shows the projected timelines for various aspects of the Company’s plans to bring the NZ into production.

Project – North Zone Production	Timeline
Pilot plant program – production of tin and indium-zinc concentrates	Winter – Summer 2010
Pilot plant program – production of indium sponge and zinc metal	Winter – Summer 2010
Concluding concentrate and metal off-take sales contracts	Winter – Summer 2010
Drilling – confirmation drilling of zones of inferred resources in order to upgrade to indicated resources	Spring – Summer 2010
Definitive feasibility study	Summer – Fall 2010
Production decision	Fall 2010

Adex believes it will be well positioned to begin equipment purchase and installation, and mine development – pending positive results from its definitive feasibility study, government regulatory approvals and project financing – by early 2011. Concentrator production is targeted for October/November 2011.

Pilot Programs

The concentrate pilot program is a two stage effort beginning with bench scale work to confirm parameters for producing a marketable indium-bearing zinc concentrate and a saleable tin concentrate and culminating in pilot operations continuously producing both zinc/indium and tin concentrates; the hydrometallurgical pilot program focuses on producing zinc metal and high grade indium sponge from indium bearing zinc concentrate. The concentrate program will begin in early January and the hydrometallurgical pilot program will begin in early February. Each is scheduled to be completed by mid-summer 2010.

Concentrate and Metal Off-Take Sales Contracts

Adex has commenced negotiation of letters of intent for the sale of its indium sponge and for the sale of its tin concentrate. The successful conclusion of these letters of intent will open the door to the negotiation of sales contracts and will influence the production decision expected by late fall

2010. In addition, details are being finalized on a letter of intent for the sale of Adex's zinc/indium concentrate, including an appropriate pay factor for indium.

Drilling Program

Adex intends to carry out a 2000 metre, half million dollar drilling program which will focus on upgrading the inferred portion of the NZ resources to the indicated category. The drilling program will result in a revision to the GEMCOM solid model of the NZ and an updated NI 43-101 resource estimation. The drilling program is scheduled to begin in late spring 2010.

Definitive Feasibility and Production Decision

A definitive feasibility study is scheduled to commence in mid-summer 2010 and will initially run concurrently with the final stages of the pilot programs. The definitive feasibility study is expected to result in a production decision during the latter half of 2010.

ABOUT ADEX

Adex Mining Inc. is a Canadian junior mining company with an experienced management team. The Company is focused on developing its flagship Mount Pleasant Mine property, a multi-mineral project that is host to promising tungsten-molybdenum and tin-indium-zinc-copper mineralization. Located in Charlotte County, New Brunswick, the Mount Pleasant Mine property is situated approximately 80 kilometres south of Fredericton, the provincial capital, and is 65 kilometres from the United States border. The common shares of Adex trade on the TSX Venture Exchange under the stock symbol "ADE." Technical and business information regarding Adex's Mount Pleasant property is available on SEDAR at www.sedar.com and the Company's website at www.adexmining.com.

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Certain statements in this press release may constitute "forward-looking" statements which involve known and unknown risks, uncertainties and other factors which may cause actual results, performance or achievements of Adex, its subsidiary or the industry in which they operate to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. When used in this press release, the words "estimate", "believe", "anticipate", "intend", "expect", "plan", "may", "should", "will", the negative thereof or other variations thereon or comparable terminology are intended to identify forward-looking statements. Such statements reflect the current expectations of the management of Adex with respect to future events based on currently available information and are subject to risks and uncertainties that could cause actual results, performance or achievements to differ materially from those expressed or implied by those forward-looking statements. These risks and uncertainties are detailed from time to time, including, without limitation, under the heading "Risk

Factors", in reports filed by Adex with the Alberta, British Columbia and Ontario Securities Commissions which are available at www.sedar.com and to which readers of this press release are referred for additional information concerning Adex, its prospects and the risks and uncertainties relating to Adex and its prospects. New risk factors may arise from time to time and it is not possible for management to predict all of those risk factors or the extent to which any factor or combination of factors may cause actual results, performance and achievements of Adex to be materially different from those contained in forward-looking statements. Although the forward-looking statements contained in this press release are based upon what management believes to be reasonable assumptions, Adex cannot assure investors that actual results will be consistent with these forward-looking statements. Given these risks and uncertainties, investors should not place undue reliance on forward-looking statements as a prediction of actual results.

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