



# HADDINGTON

RESOURCES LIMITED

ACN 093 391 774 ABN 39 093 391 774

7 Havelock Street  
West Perth WA 6005  
Australia  
PO Box 1909  
West Perth WA 6872  
Australia  
**Tel: +61 8 9488 5100**  
Fax: +61 8 9226 1551  
Email: [info@haddington.com.au](mailto:info@haddington.com.au)  
Web: [www.haddington.com.au](http://www.haddington.com.au)

## ANNOUNCEMENT

28 February 2007

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### URANIUM EXPLORATION - LAKE BARLEE & SHOBRIDGE

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Haddington Resources Limited is pleased to announce the grant of two Exploration Licences E57/624 and E57/625 at Lake Barlee. The two tenements cover an area of over 400 sq km.

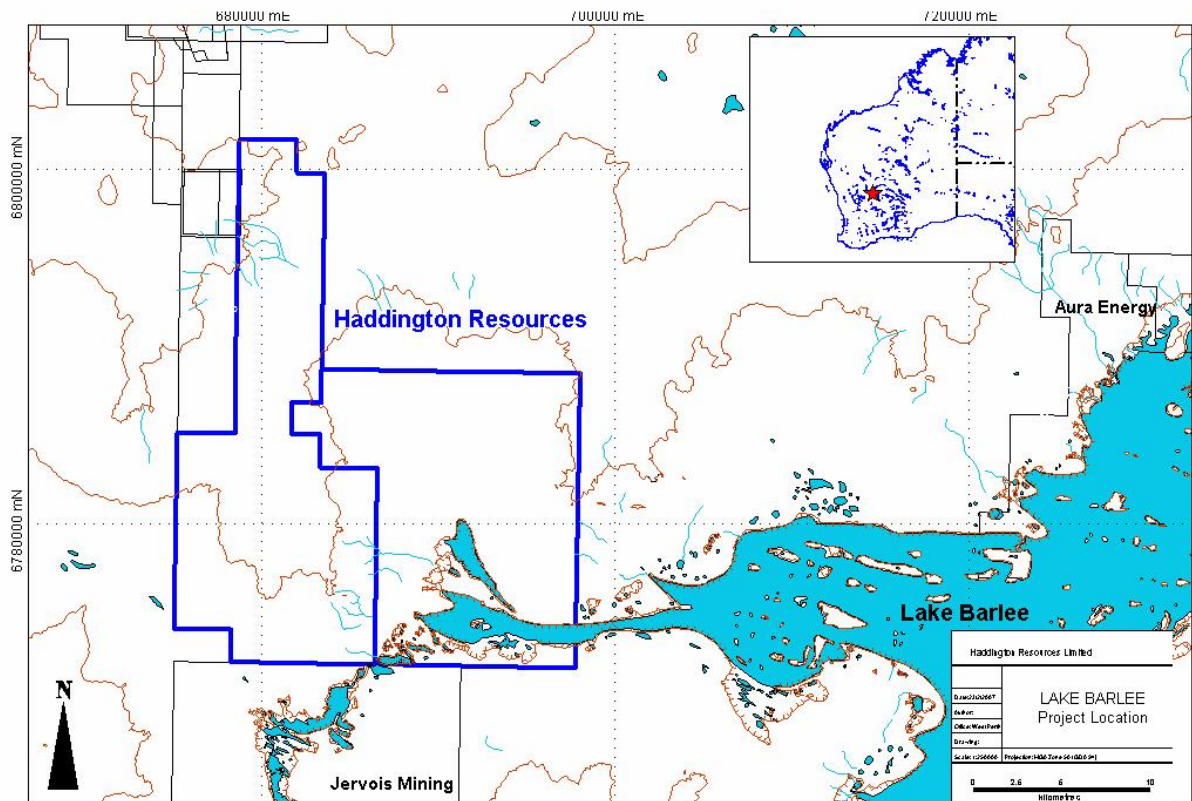
The tenements are located on the western arm of the Lake Barlee dry salt lake complex, approximately 120 km south southwest of Sandstone in Western Australia. Lake Barlee is a large Tertiary – Recent drainage system that extends for approximately 135km east west with extensive anomalous airborne radiometric and geochemical uranium responses identified in previous work by government and private entities.

The Company believes the tenements are prospective for uranium mineralization formed within calcrete, located in Tertiary palaeochannels, valley channels or within lake sediments. The confluence of several palaeodrainage channels into western Lake Barlee is evident in the southern portion of the tenements.

Major calcrete-hosted uranium deposits include Yeelirrie (35Mt @ 1.5kg/t U<sub>3</sub>O<sub>8</sub>) and Lake Maitland (32Mt @ 0.33 kg/t U<sub>3</sub>O<sub>8</sub>). These types of deposits generally occur as shallow layers hosted in calcrete or playa/salt lake sediments.

Adjacent to the southern boundary of the Company's tenements the Jervois Mining Ltd / New Age Exploration Ltd Joint Venture is targeting radiometric responses, where "the most significant uranium channel responses are from an alluvial area corresponding to a drainage channel into the western margin of Lake Barlee".

The Company has carried out a preliminary review of 1997 airborne radiometric data which has highlighted anomalous uranium channel responses within the dominantly granitic/gneissic terrain and associated with alluvial drainages on the tenements.



The tenements will undergo a field evaluation and geochemical sampling programme followed by a geophysical survey and aircore drilling programme which will target anomalous results from this initial exploration.

The investigation of the Lake Barlee tenements for uranium is consistent with the Company's reconnaissance program investigating the uranium potential of its Mt Shoobridge project in the Northern Territory.

The Company was aware of a number of radiometric uranium anomalies in the Shoobridge area and has used a spectrometer to take uranium, thorium, and potassium readings on targets identified from the Rum Jungle Radiometric Survey. The radiometrics have been reprocessed and profiles provided from which the location of anomalies could be ascertained. The radiometric data revealed a number of anomalous uranium targets. In total, 18 Uranium Radiometric Anomalies were field-checked using the spectrometer. Levels of up to 169ppm uranium were returned from a massive shallowly dipping stratabound bed of limonite and hematite (minor goethite) at K Mesa. Thirty two rock chip samples were taken and assayed for both uranium and iron content. Eleven samples exhibited elevated uranium values up to 74 ppm U.

Spectrometer results of up to 119ppm uranium were recorded from radiometric anomalies trending in a north-westerly direction at the Fenton Prospect. Rock chips from an iron-rich sedimentary unit at the Fenton Prospect returned uranium values ranging between 22 to 61 ppm U and 40 to 59% Fe.

Literature research has revealed data from a costean at the Liberator prospect. Sampling of the 135 metre long costean in previous exploration by others indicated enhanced uranium values within chert horizons and carbonaceous beds of the Middle Koolpin Formation. An 8 metre intersection averaging 141 ppm U was reported.

The Company is encouraged by the initial literature search and reconnaissance exploration of the Shoobridge tenements. Comprehensive data compilation and acquisition of airborne geophysical data is under way, ahead of an extensive field exploration programme to commence following the NT 'wet season'.

**ON BEHALF OF THE BOARD OF DIRECTORS OF  
HADDINGTON RESOURCES LIMITED.**



**Colin McCavana**  
Managing Director

*This announcement accurately reflects information compiled by full time officers of the Company. The technical information in this announcement that relates to Mineral Resources or Ore Reserves is based on information compiled by Mr James Pearson, who is a Member of the Australasian Institute of Mining & Metallurgy and who has sufficient experience which is relevant to the style of mineralisation and type of deposit 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. Mr James Pearson is a Non-Executive Director of the Company and consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*