



5 September 2006  
The Manager  
Company Announcements Office  
Australian Stock Exchange Limited  
PO Box H224 Australia Square  
SYDNEY NSW 2000

## **Announcement Aurora Identifies More Uranium**

Aurora Minerals Limited is pleased to announce:

- **Uranium grading up to 0.09% U<sub>3</sub>O<sub>8</sub> in calcrete identified at its Yannarie Project**

### **1. URANIUM EXPANSION - YANNARIE AND MINNIE CREEK PROJECTS**

Aurora Minerals is exploring for near surface **Yeelirrie-type uranium deposits** hosted in calcrete at its Yannarie and Minnie Creek Project areas in the Gascoyne region of Western Australia.

The large Yeelirrie deposit, also located in Western Australia, has a reported resource of 30mt at an average grade of 0.15% U<sub>3</sub>O<sub>8</sub> for a total of 52,000 tonnes of contained U<sub>3</sub>O<sub>8</sub>. It is hosted in calcrete formed in semi-desert drainages, flanked by extensive granites. The principal zone of mineralization extends over an area of 9000m by 1500m wide by 7m thick, at an average depth of 5m below surface. Yannarie and Minnie Creek projects are located in a similar geological environment.

Aurora has commenced research into Geological Survey of Western Australia and mines department records of previous exploration at Yannarie which indicates that, in the mid 1970s:

Vertical chip samples **grading up to 0.09% U<sub>3</sub>O<sub>8</sub>** are reported from shallow pitting in the far north west part of the project (refer map) with follow-up reverse circulation drilling intersecting values up to 0.03% U<sub>3</sub>O<sub>8</sub>. These results, combined with the Minnie Creek grades, recently announced (see below), show the potential for uranium enrichment in the extensive calcrete drainages in the company's tenement holdings in the area.

Recently Aurora reported that individual surface calcrete grab samples at its Minnie Creek Project have **U<sub>3</sub>O<sub>8</sub> grades up to 0.15%** within an area 150m by 50m, grading over 0.03%. Reports from the 1970's indicate grades within a range of 0.03% to 0.07% in shallow auger drilling of the calcrete. This also appears to be a feeder creek into the main calcrete drainage.

These results now show that both Yannarie and Minnie Creek have uranium in calcretes in relatively small tested areas. This indicates that the creek and river systems were transporting uranium from the uranium enriched granites into the calcrete in these areas. With 330kms of calcrete and accompanying drainages the Company looks forward to more extensive testing

Aurora has also reported that the Minnie Creek and Yannarie exploration license applications cover 30km of uranium-channel airborne radiometric anomalies coincident with calcrete drainages.

The two projects include up to 100km strike length of near-surface calcrete in the semi desert creek and river systems which drain nearby uranium enriched granites.

In the past month the Company has significantly expanded its exploration license applications around Minnie Creek to cover an extra 230km strike of calcrete in similar drainages. Widths of the calcrete vary up to 6km. The new license applications are included on the attached maps.

Yannarie and Minnie Creek Projects lie north of the Paddy Well uranium prospect of U3O8 Limited, and south of the Manyingee uranium deposit of Paladin Resources (resource of 12,000t of contained U<sub>3</sub>O<sub>8</sub>).

Seventy kilometers south of Minnie Creek, Aurora has applied for exploration licenses covering extensive calcrete deposits with uranium potential in the Glenburgh Project area; refer to attached map.

Research of mines department records of the Minnie Creek, Yannarie and new exploration license applications is ongoing and further results are expected.

Fieldwork is planned to commence following tenement and statutory approvals.

## **2. Weebacarry and Ryansville Projects, Murchison Region, Western Australia**

The Weebacarry Project covers a 12km jog, or kink, located centrally in the major Big Bell to Meekatharra shear zone. The Company is exploring for a Big Bell (production of 3.4 million oz), Meekatharra (2moz) or Ghost Crab (1moz) style gold deposit.

At Ryansville, Aurora has identified iron ore potential which includes approximately 2km of strike of the Weld Range. The Aurora-Hampton JV has pegged tenement

applications over a further 2km of strike, giving the joint venture a total of 4km of strike of the target formation.

The Company is currently conducting fieldwork at both projects to assist targeting for its forthcoming drilling programs.

The plan is to conduct a two-stage initial test at Ryansville: first to drill under the easily accessible flat area in the middle of the 4km prospective zone in October 2006, to be followed later by exploration on the strike extensions to the west and east where we await tenement approvals.

Mapping and surface sampling at Weebacarry is progressing and has identified a series of sheared, boudinaged and quartz-veined basalts in the western side of the Jungar Bore Shear Zone, quartz veins and porphyry dykes along the sheared western contact with the granite gneiss, and quartz veined gossans to the north of the Miss Jane prospect. These areas are broadly coincident with the widespread gold anomalism already reported in this project area but have had little previous drilling. The company aims to re-commence a series of RAB drilling programs in October 2006.

Yours faithfully

Rob Taylor

Garry O'Hara

Managing Director

Executive Director

*The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Dr Robert S Taylor, a Member of The Institute of Materials, Minerals and Mining, and Mr Garry P O'Hara, a corporate member of the Australasian Institute of Mining and Metallurgy.*

*Robert Taylor and Garry O'Hara are both executive directors of Aurora Minerals Limited and consult to the Company through their respective consulting companies Able Kids Pty Ltd and Anketell Pty Ltd.*

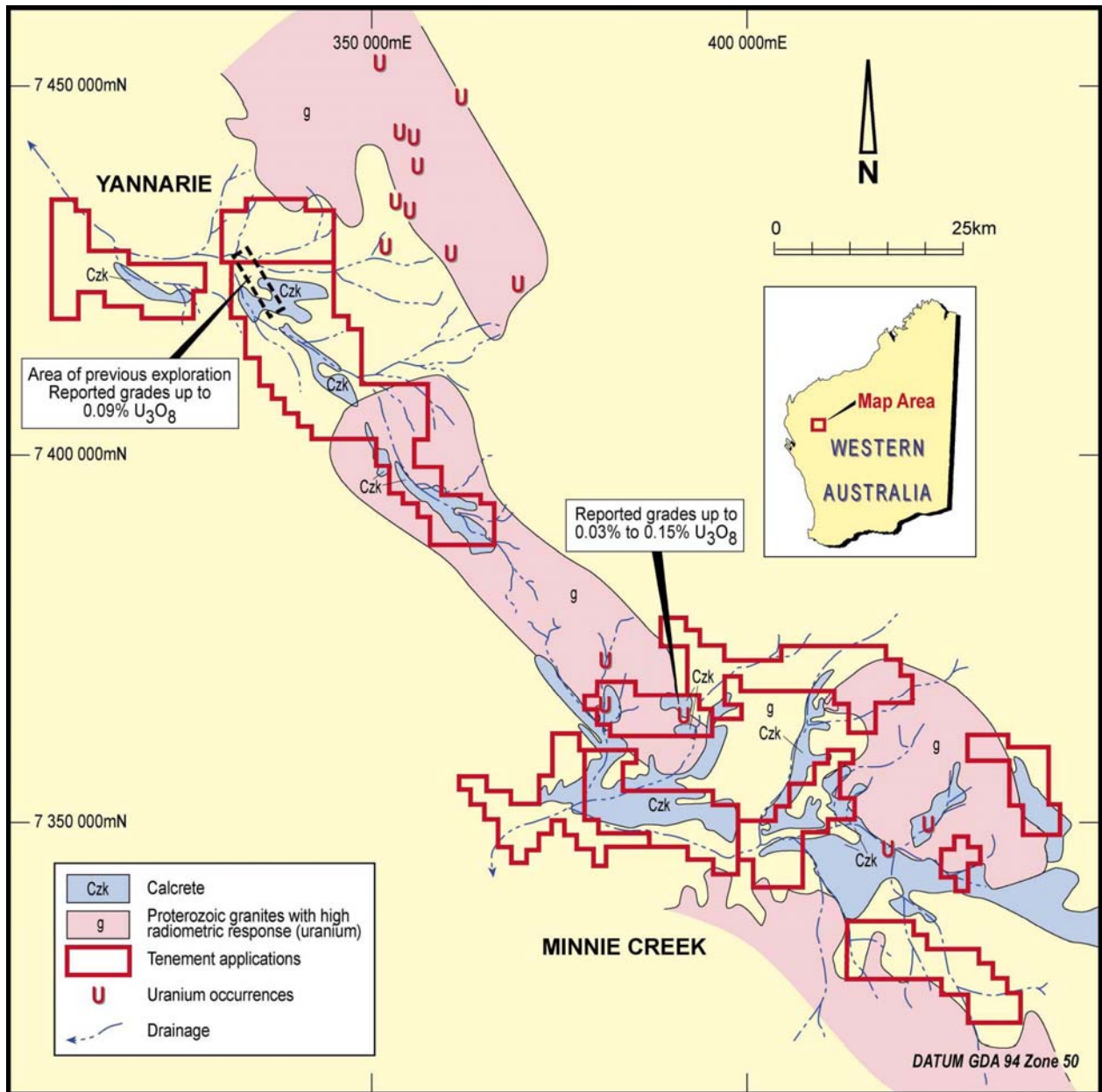
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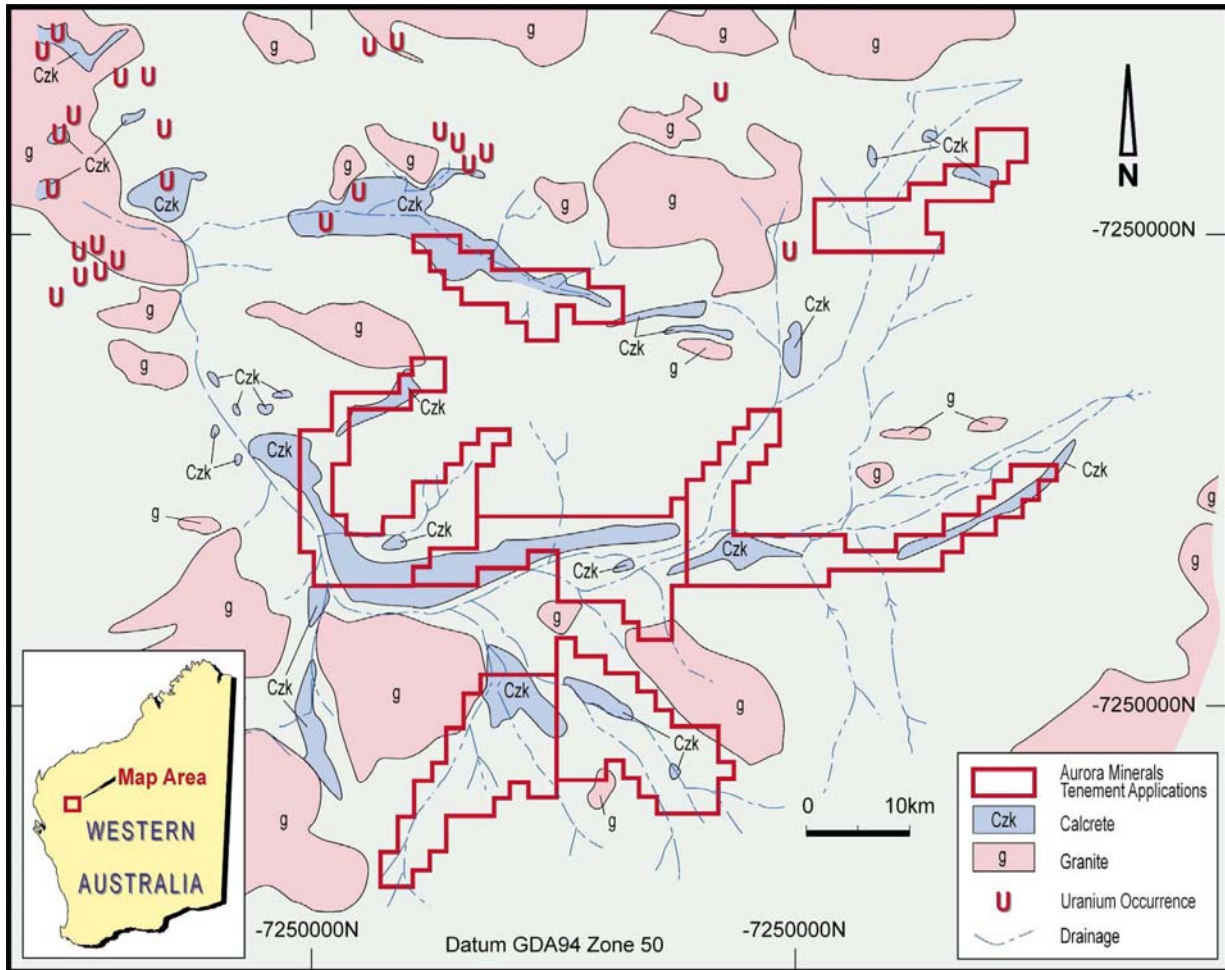
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**Aurora Minerals Limited  
Yannarie & Minnie Creek Projects - Regional Setting**

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## Glenburgh Uranium Project (South of Minnie Creek)

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