



ASX Release
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ASX : RSL

RESOURCE STAR TO COMMENCE AIRBORNE RADIOMETRIC SURVEY OVER NT URANIUM PROJECTS

Exploration is to commence shortly on Resource Star's Northern Territory uranium exploration portfolio, with airborne geophysical programs to define targets for upcoming surface exploration at Edith River, Marrakai and Hayes Creek South.

Current Survey:

- **More than 3,250 line kilometres of detailed airborne geophysics**
- **Multi-spectral radiometrics & magnetics**

Subsequent Work Planned:

- Reconnaissance mapping and sampling
- Drilling planned during 2010 for each project

Resource Star Ltd (ASX: **RSL**) today announced that it has commissioned airborne geophysical surveying over three 100%-owned project areas in the Northern Territory. A total of nearly 485km² will be flown, with both multi-spectral radiometrics and magnetics at 100 to 200m line-spacings, and a 60m flight height.

The majority of the program will be flown over Resource Star's Edith River Project, where about 40km strike length of uranium anomalism will be tested in greater detail along the margin of the prospective Pine Creek Orogen.

At Hayes Creek South a number of uranium channel anomalies are interpreted to lie on a fault splay coming off the Hayes Creek Shear Zone, a system which hosts the structurally-controlled high grade uranium prospects in Thundelarra's (ASX: THX) Hayes Creek Project.

At Marrakai a uranium channel anomaly associated with a fault-disrupted anticline is the key target.

The work is expected to commence next week, weather and aircraft availability permitting.



Figure 1: Location of Resource Star's NT uranium exploration projects.

Resource Star holds a number of exploration licences in the Northern Territory, with the largest area being the **Edith River Project** where a number of historical uranium occurrences (Fig 2) along the margin of the prospective Pine Creek Orogen are recorded in areas where the regional geophysical data is of varying, and locally very poor, quality.

Earlier work at Edith River has confirmed these historical reports with encouraging spot spectrometer readings, averaging 295ppm eU_3O_8 , from three of the historical occurrences, and a peak result of 1,521ppm eU_3O_8 . The program at Edith River is designed to test these areas and extensions along strike of the controlling structural features, parallel to the regional Pine Creek Shear Zone, over an approximately 40km strike length.

In addition, a discrete zone of relatively intense uranium channel anomalism in the Cullen Granite to the northeast of currently known occurrences will be surveyed in detail to assess prospectivity prior to reconnaissance mapping.

At **Hayes Creek South**, also on the southwest margin of the Pine Creek Orogen, an interpreted fault splay coming off the Hayes Creek Shear Zone is associated with a series of elongate uranium channel anomalies. Secondary fault splays associated with the Hayes Creek Shear Zone are considered prospective since the recent spectacular uranium discoveries by Thundelarra Exploration Ltd in their Hayes Creek Project, less than 20km to the north. Each of their main discoveries is associated with folding disrupted by secondary faults from the Hayes Creek Shear Zone.

At **Marrakai**, a small tenement near the Rum Jungle region is focussed on structural deformation, and in particular a uranium channel anomaly associated with fault-disrupted folding near the northern end of the regional Pine Creek Shear Zone.

Edith River Project - Airborne Survey

132°10'0"E

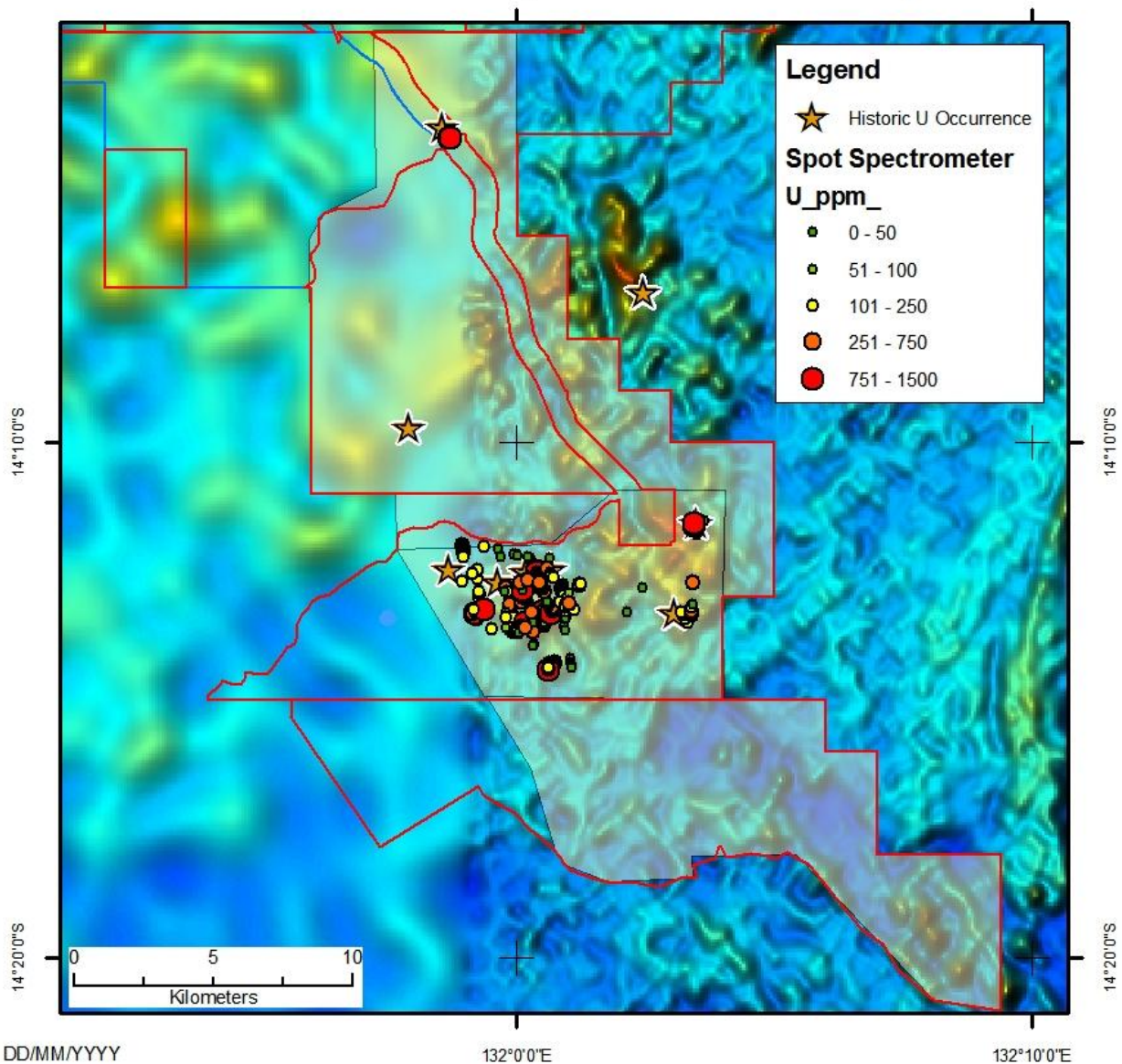


Figure 2: Edith River Project, NT, with planned airborne radiometric survey as shaded area.

In Figure 2, the planned Edith River survey is shown as the shaded area, here superimposed on existing regional U channel radiometrics (Note - blurry image in the western third is due to widely-spaced reconnaissance data from the '70s). Also shown are Resource Star's leasing (ELs = red, ELAs = blue), historical uranium occurrences and surface spot spectrometer eU_3O_8 results from earlier ground surveys.

In addition to locating near-surface radioactive material, the airborne program will assist in mapping underlying geology, in particular any structural controls, with the concurrent aeromagnetic survey.

The program will be followed up by mapping and rock-chip sampling as soon as possible when access conditions allow, so as to generate drill targets for later in the year.

NB " eU_3O_8 " results are "equivalent uranium" derived from spectrometer readings. Equivalent U_3O_8 results from surface samples are likely to be affected by local disequilibrium, caused by the mobility of uranium in the surface environment, and other factors. Variation between chemical assays and spectrometer-derived values is expected, but it is considered that eU_3O_8 values provide a qualitative indication of the distribution and potential magnitude of uranium mineralisation.

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About Resource Star Ltd

Resource Star Ltd is a publicly-listed Australian company (ASX: RSL) that has interests in uranium and uranium-associated exploration assets in the Northern Territory, Western Australia, Tasmania and Malawi.

The Company's main projects are the 100%-owned Edith River Uranium Project in the Northern Territory, and a joint venture with Globe Metals & Mining on the Machinga Niobium-Rare Earths Project in Malawi. Globe is managing the Machinga program, with input from Resource Star, and they are currently earning 20% equity through exploration expenditure. In a staged process Globe can earn up to 80% in the project by funding all activity up to and including a feasibility study.

Resource Star recently issued a Prospectus and completed a Public Share Offer in conjunction with Allegra Capital, to allow the Company to comply Chapters 1 and 2 of the ASX Listing Rules, and the Company relisted in February 2010.

Competent Person Statements

The information in this report that relates to Exploration Results is based on information compiled by Mr Richard Evans, who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Evans is a full-time employee of the Company and 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 Evans consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Forward Looking Statements

This report contains 'forward-looking information' that is based on the Company's expectations, estimates and projections as of the date on which the statements were made. This forward-looking information might include, among other things, statements with respect to the Company's business strategy, plans, objectives, performance, outlook, growth, shareholder value, projections, targets and expectations, Mineral Reserves and Resources, results of exploration and related expenses, property acquisitions, mine development, mine operations, drilling activity, sampling and other data, grade and recovery levels, future production, capital costs, expenditures for environmental matters, life of mine, completion dates, uranium prices, demand for uranium, and currency exchange rates. Generally, this forward-looking information can be identified by the use of forward-looking terminology such as 'outlook', 'anticipate', 'project', 'target', 'likely', 'believe', 'estimate', 'expect', 'intend', 'may', 'would', 'could', 'should', 'scheduled', 'will', 'plan', 'forecast' and similar expressions. Persons reading this report are cautioned that such statements are only predictions, and that the Company's actual future results or performance may be materially different.

Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the Company's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information. Forward-looking information is developed based on assumptions about such risks, uncertainties and other factors set out herein, including but not limited to the risk factors set out in the Company's Annual Report.

This list is not exhaustive of the factors that may affect our forward-looking information. These and other factors should be considered carefully and readers should not place undue reliance on such forward-looking information. The Company disclaims any intent or obligations to update or revise any forward-looking statements whether as a result of new information, estimates or options, future events or results.