

ASX ACTIVITIES REPORT

3 months ended:
31 March 2015

UraniumSA Limited ("UraniumSA")

ASX Code: USA

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BOARD OF DIRECTORS

Alice McCleary Chairman
Martin Janes Director
Russel Bluck Director &
Geoscience Manager
David Paterson Director &
Acting CEO

PROJECTS

South Australia

Samphire ELs 4979, 5426
Blackbush MC 4280
Murninnie EL 5440
Wild Horse Plains EL 4693
Muckanippie EL 4694

ISSUED CAPITAL

30 April 2015
Shares on Issue: 181,171,038
Quoted shares: 181,171,038
Unlisted Options: 15,450,000

INVESTOR INQUIRIES

executive@uraniumsa.com.au

**Inquiries regarding this report
and company business may be
directed to:**

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VISIT OUR WEBSITE

www.uraniumsa.com.au



SAMPHIRE PROJECT

The Samphire Project was the focus of all geotechnical and metallurgical work for the quarter.

The strategy for 2015 remains

- Determine the potential for high grade basement hosted uranium mineralisation.
- Increase the bulk grade of sediment hosted mineralisation at Blackbush West.
- Further develop the exploration opportunity seeking large tonnage uranium targets within the Samphire granite.

In April 2015, UraniumSA was notified that it is a recipient of a South Australian Government PACE grant of \$65,000. This grant will contribute approximately 50% of the expected direct drilling costs of a short but important multiple target 300 metre sonic cored drill campaign focussed on the Western Blackbush area which focusses on points a) and b) above.

Samphire metallurgical review work has in the past included several mechanical beneficiation processes that might positively impact the economics of uranium extraction from sediment hosted mineralisation at Blackbush. Recent work on by other companies has highlighted further potential of beneficiation at Blackbush to enhance the economics of mining at Blackbush. UraniumSA has initiated a review of these processes.

CORPORATE

Convertible Debt Facility – subsequent to the end of the period, the Company has entered into an agreement with its major shareholder with regard to the establishment of a \$300,000 convertible debt facility that will assist with UraniumSA's working capital requirements going forward. (refer ASX release 30 April 2015)

New Projects - projects involving minerals and energy other than uranium are being sought & evaluated as part of a diversification strategy.

Exploration Development Incentive (EDI) – a review of recently enacted Federal Government legislation is underway to identify potential benefits to shareholders from future capital raisings.

FINANCE

Exploration expenditure for the period \$30,000. Cash position at the end of the period \$0.133m (no debt, unaudited). Estimated expenditure for the June 2015 quarter is \$160,000.

ACTIVITIES

SAMPHIRE PROJECT

BLACKBUSH DEPOSIT

Drilling. UraniumSA was successful with a PACE Discovery Drilling 2015 application to cover portion of the cost of a two hole drilling program (ASX 14 April 2015) to test for potential high grade mineralisation at and below the unconformity at Blackbush West. The application made by UraniumSA was based on information released previously to the ASX on 18 November 2014.

The releases of 14 April 2015 and 18 November 2014 contain extensive technical information and provide a comprehensive account of the geology and range of anticipated outcomes. The location, targets and geology associated with the two inclined drill holes is well summarised as follows:

Figure 1 shows the location of the proposed drill holes within the Blackbush West portion of the Blackbush deposit and in relation to the drilled out envelopes of >1m% uranium mineralisation. – refer page 3

Figures 2 and 3 show interpretive cross sections and targeting objectives for each proposed drill hole. – refer page 4

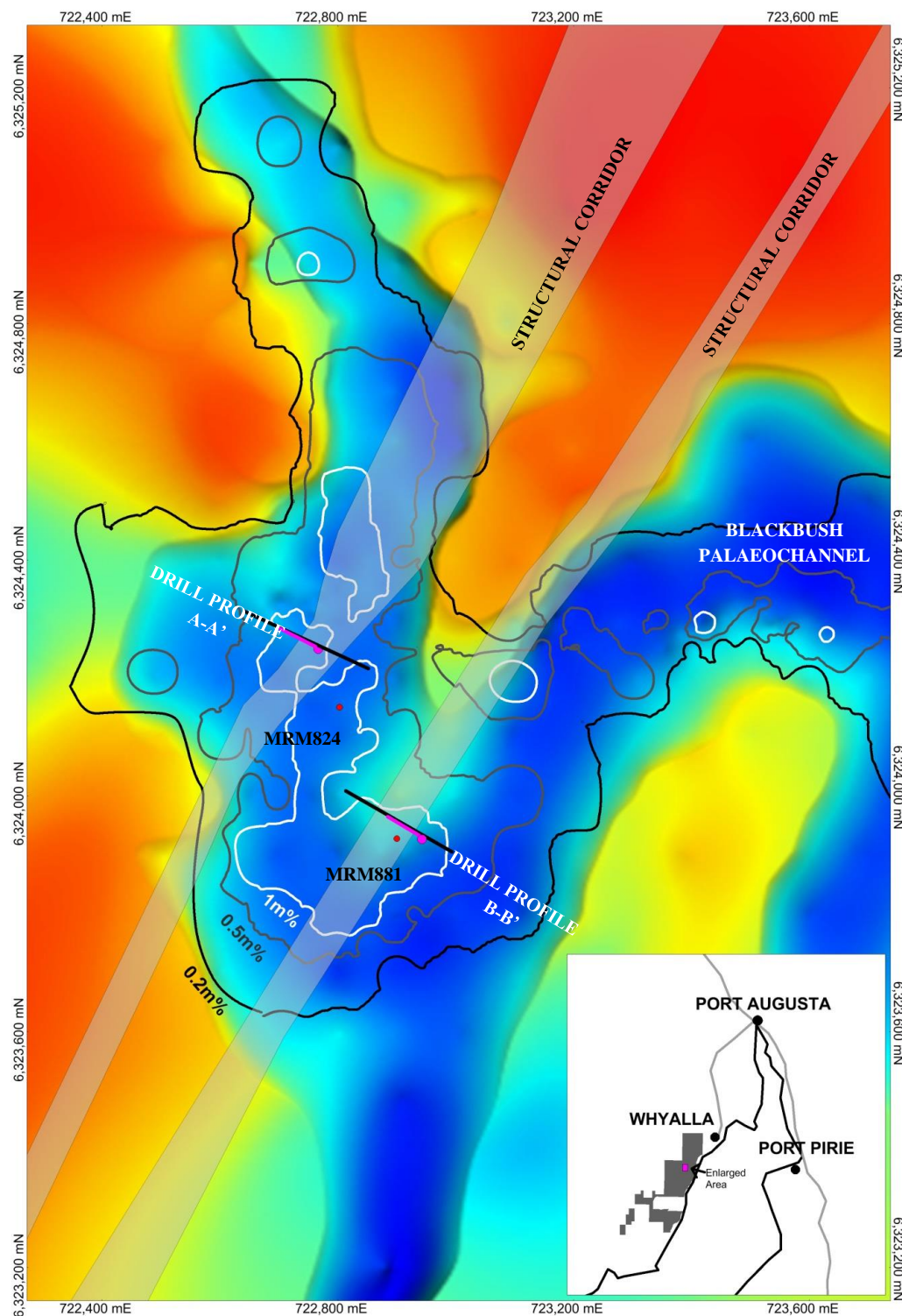
METALLURGY

Physical beneficiation. The Mulga Rocks deposits in Western Australia have geological similarities with the Blackbush deposit. The owners of Mulga Rocks recently released the results of metallurgical test work focussed on the physical beneficiation of mineralised feedstock through screening and gravity separation (Vimy Resources Limited, code VMY, ASX release 16 March 2015). The mineralisation is holistically described as “lignite hosted uranium” but has been found to comprise up to 65% silica rich sand which can be mechanically separated with the residual ~35% containing the majority of mineralisation at grades 2.1 to 2.8 times higher than the original bulk material. The cost savings in materials handling and processing could have a positive impact on project economics.

A range of geological and metallurgical data from investigations carried out on the Blackbush project indicates that Blackbush materials may show a similarly pronounced partitioning of mineralisation. A desk-top review of the available information has commenced and further targeted test work will be commissioned if warranted.

Ion exchange. No substantive work completed or reported during the quarter.

Figure 1. Blackbush West, Blackbush deposit, showing the location of proposed PACE drill holes (purple trace)



The image is an elevation model of the basal Eocene unconformity. Contours are of uranium mineralisation meter thickness x grade percent.

Figure 2. Profile A – A'

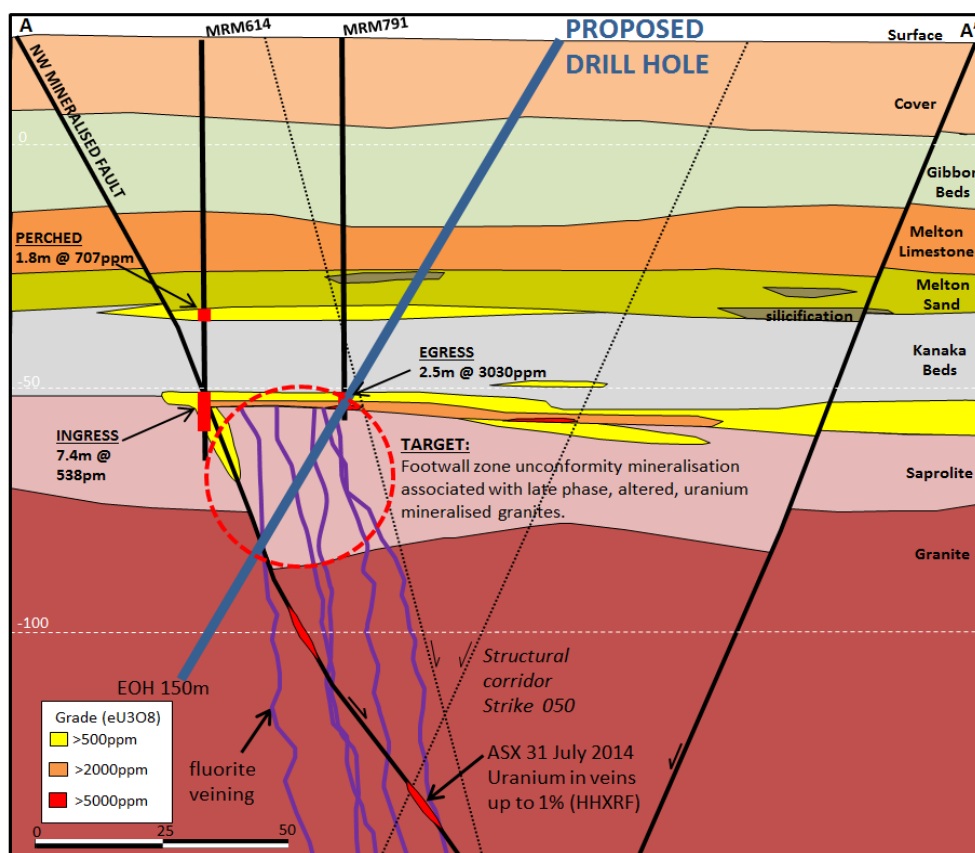
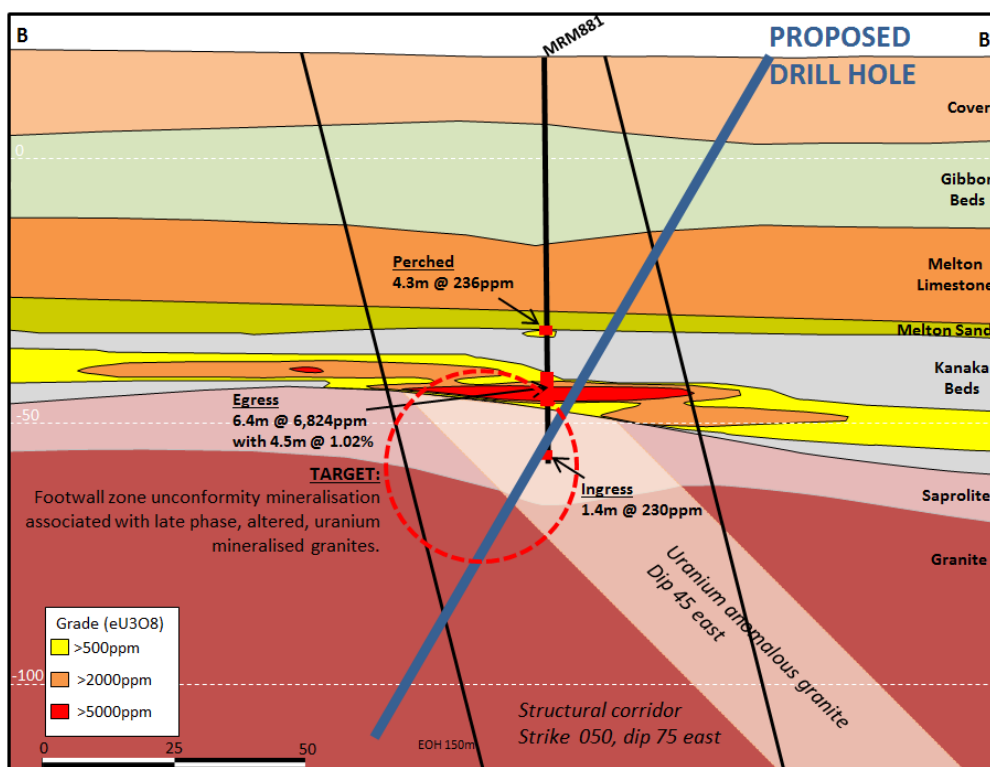
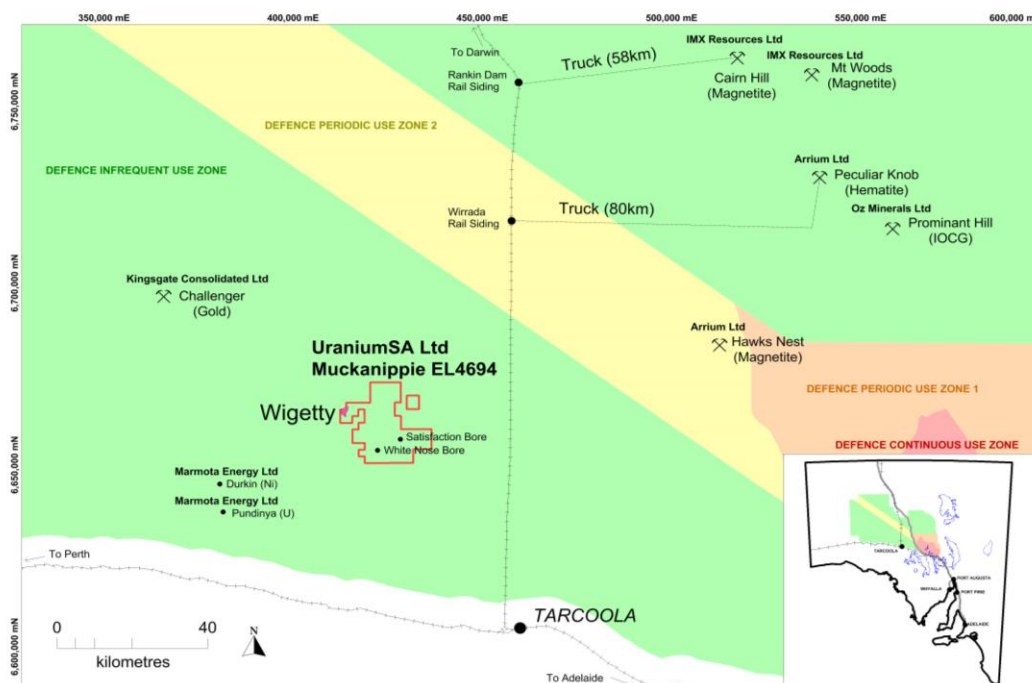


Figure 3. Profile B – B'



MUCKANIPPIE PROJECT

UraniumSA owns 100% of Exploration Licence 4694. No significant work was completed in the quarter. Identification of potential JV partners continued.



OTHER PROJECTS

CHARLESTON PROJECT – EL 5426 WESTERN BLOCK

- Midgee western block of SRZ JV (Stellar Resources Ltd, USA earning 73% EL 5426).
- No work was completed during the Quarter.

MURNINNIE PROJECT– EL 5440

- Unreported data from prior exploration was obtained and integrated with the previously collected open file data. Consolidation and interpretation of the data is in progress and targets warranting exploration are being identified.

WILD HORSE PLAIN – EL 4693

- USA 100% uranium, Archer Exploration Limited (ASX: AXE) 100% other minerals, EL 4693.
- The title was transferred to Archer Exploration during the quarter. USA rights with respect to uranium were not impacted by the transfer.
- Archer Exploration is continuing work on its graphite project. No work was done by UraniumSA on the title.

FORWARD WORK PROGRAM TO END JUNE 2015

SAMPHIRE PROJECT

- Preparation for drilling of the PACE co-funded holes, Blackbush West. Drilling targeted for quarter starting September 2015.
- Desk-top evaluation of the possibilities for mechanical beneficiation of Blackbush mineralisation.
- Continuation of the ion exchange metallurgical program in conjunction with our strategic partners as funding permits.
- Ongoing development of drillable exploration targets for mineralisation within the Samphire granite.
- Discussions with the landowners aimed at a resolution of access issues for follow up exploration of the Plumbush deposit (held in JV with Stellar Resources Limited, ASX: SRZ). Wardens Court hearing was adjourned on 10 March 2015, to 4 August 2015.

MUCKANIPPIE PROJECT

Identification of potential joint venture partners will continue in the current quarter.

OTHER PROJECTS

Murninnie project

- Interrogation of the newly complete data base, conceptualisation of exploration targets within the title and extending north into the Samphire project area.
- Land owner contact and preparation for geological mapping and rock chip and soil sampling.

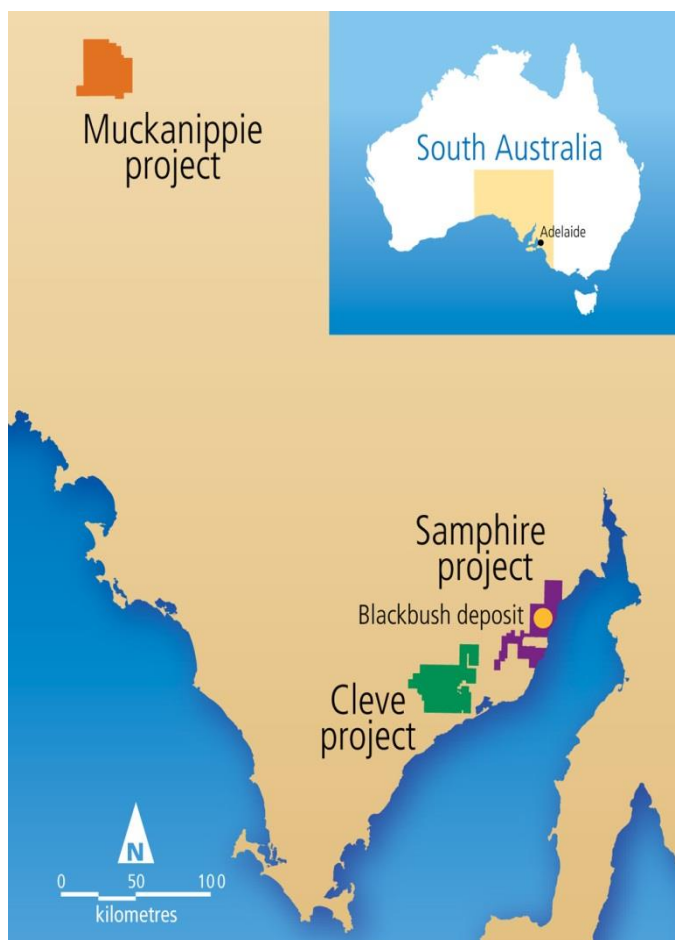
Charleston project

- Desk top reinterpretation of basement geology, identification and work up of conceptual targets.

Wild Horse Plains (Cleve) project, eastern Eyre Peninsula

- Archer Exploration will be continuing work on its project. No work is planned by UraniumSA.

About UraniumSA Limited



UraniumSA is an Adelaide based explorer specialising in uranium mineralisation within a substantial portfolio of properties in South Australia's Gawler Craton.

The Company has discovered sediment hosted uranium mineralisation within Exploration Licence 4979, Samphire, which is located 20km south of the industrial city of Whyalla on the eastern Eyre Peninsula in South Australia. The exploration Licence is owned and operated by Samphire Uranium Pty Ltd, a wholly owned subsidiary of UraniumSA Limited.

The Samphire project contains the:

Blackbush deposit with an estimated inferred resource 64.5 million tonnes of mineralisation at a bulk grade of 230ppm containing 14,850 tonnes U_3O_8 at a 100ppm eU_3O_8 cut-off grade (JORC 2012).

Plumbush deposit with an estimated inferred resource 21.8 million tonnes of mineralisation at a bulk grade of 292ppm containing 6,300 tonnes U_3O_8 at a 100ppm eU_3O_8 cut-off grade (JORC 2004).

The estimated mineralisation is predominantly sediment hosted in Eocene age Kanaka Beds. Exploration has discovered uranium mineralisation in other geological settings and exploration is continuing.

An evaluation of mining methods to optimise the recovery of uranium from the identified resources of mineralisation is continuing. Application for a Retention Lease over MC 4280 for an in-situ recovery field trial at the Blackbush deposit remains.

Through its own tenure and by joint venture UraniumSA has exploration control over what it considers the most prospective portions of the Pirie Basin. The Board has continued its diversification of UraniumSA's exploration efforts into commodities and opportunities other than uranium. Work on the Blackbush deposit within the Samphire project will continue at a rate which reflects the current global uranium market, production opportunities and investor sentiment.

David Paterson
Acting Chief Executive Officer
UraniumSA Limited

The exploration results mineral resources reported herein, insofar as they relate to mineralisation, are based on information compiled by Mr Russel Bluck a Director of UraniumSA Limited and Member of the Australian Institute of Geoscientists with sufficient experience relevant to the style of mineralisation and type of deposits being considered, and to the activity which is reported to qualify as a Competent Person as defined by the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code, 2012 Edition). Mr Bluck consents to the inclusion in the report of matters based on his information in the form and context in which it appears. It should be noted that the abovementioned exploration results are preliminary.