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MAIDEN URANIUM RESOURCE ANNOUNCED FOR **EYRE PENINSULA DISCOVERY**

The potential for new South Australian uranium mines now includes the Eyre Peninsula region of South Australia with the announcement today of the maiden JORC resource for the Blackbush Prospect at Mullaquana on the east coast.

UraniumSA Limited (ASX: "USA") announced at the *2009 Paydirt SA Resources & Investment Conference* that the Company had defined a JORC Inferred Resource of 2,700 tonnes of contained U₃O₈ at the Blackbush Prospect in its wholly-owned Mullaquana project, 20 kilometres south of the historical iron ore mining city of Whyalla.

The resource comprises an estimated 12 million tonnes of mineralisation at an average grade of 0.02% e U₃O₈.

The announcement comes just two months after UraniumSA released exploration drilling results confirming a new uranium prospective province within the Pirie Basin on the Eyre Peninsula.

The Company says the Blackbush Prospect will be advanced as quickly as practicable as a potential in-situ mining operation, and that exploration will continue for other new prospects at Mullaquana.

"The Company has taken a conservative approach in estimating this maiden resource for the Blackbush Prospect and we are confident that the tonnage, grades and contained uranium will increase as we progress our exploration and project development objectives," UraniumSA's Managing Director, Mr Russel Bluck, said today.

"Achieving this initial estimate also reinforces our long-held conviction that the northeastern Eyre Peninsula has a real potential for the discovery and profitable development of uranium," Mr Bluck said.

The Blackbush Prospect JORC-compliant Indicated Resource estimate was calculated from drill results within a portion of the extensive Western Mineralised Zone where 10

contiguous holes intersected mineralisation with a cumulative thickness-grade in excess of 0.05m% eU3O8.

The potential ore grade mineralisation extends for 1.6km along strike with a width of 1.3km and average thickness of 5.6m.

“Our broad-spaced grid drilling has closed the envelope of mineralisation off in all directions. However, it does appear to continue to the north and southeast between the present 400m separated drill holes,” Mr Bluck said.

“UraniumSA will now continue pattern drilling on a 400 metre x 400 metre grid across other prospects along the WMZ and also the eastern zone. Once that work is completed we will return to do in-fill drilling on the Blackbush Prospect resource,” he said.

The Company has been able to maintain its exploration momentum for that past two years as it owns and operates its own drill rigs and plant. This has enabled to Company to tightly control its expenditures while continuing its exploration.

The Company intersected the uranium mineralised sediments which contain the Blackbush Prospect in its first drill hole at Mullaquana in December 2007.

Through its own tenure and by Joint Venture the Company now has exploration access to the majority of the presently recognised uranium prospective ground in the newly defined uranium district.

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