

SIGNIFICANT HIGH-GRADE BAUXITE MINERALISATION INTERSECTED AT NORTH AND SOUTH DARLING RANGE PROJECTS

- * Close spaced drilling in the Brunswick Junction region confirmed continuity of high-grade mineralisation identified by historic drilling at Blackboy Hollow with intersections including:
 - 5m at 34.8% Available Al_2O_3 , 2.6% Reactive SiO_2 and
 - 4m at 35.2% Available Al_2O_3 , 2.8% Reactive SiO_2 .
- * Regional scout drilling at the Shenton Ridge and Martin Road prospects delineated targets for systematic pattern drilling to identify the significance of bauxite mineralisation present. Better intersections include:
 - 3m at 30.7% Available Al_2O_3 , 2.7% Reactive SiO_2 ; and
 - 3m at 33.3% Available Al_2O_3 , 4.2% Reactive SiO_2 .
- * Reconnaissance exploration drilling is continuing at both the Shenton Ridge and Martin Road prospects.
- * Drilling in the Bindoon region intersects thick blankets of bauxite mineralisation including:
 - 6m at 31.6% Available Al_2O_3 , 2.7% Reactive SiO_2 ; and
 - 5m at 34.6% Available Al_2O_3 , 3.0% Reactive SiO_2 .

Perth-based bauxite explorer, Bauxite Resources Limited (ASX: **BAU**; "BRL"), is pleased to announce the results of recent drilling activities at its **North and South Darling Ranges Bauxite Projects** in Western Australia. Assays have returned excellent grades and widths of mineralisation from the first 113 holes, providing further support for the Company's objective of developing a high-grade Direct Shipping Ore (DSO) bauxite export business later this year.

Together these areas underlie part of BRL's extensive 11,000km² tenement holdings in the Darling Ranges, located east of Perth in Western Australia.

Drilling at the Dewars Prospect in the Bindoon region, consist of infill drilling of the historical CSR/Pacminex drilling. These assay results indicate that the gibbsitic bauxite mineralisation is low in reactive silica and the bauxite laterites are continuous in grade and thickness. The drilling results forms part of the exploration data of the maiden resource announcement last week of an Inferred Resource of 18.2Mt at a grade of 43.1% Total Al_2O_3 , 31.6 Available Al_2O_3 and 3.2% Reactive Silica.

Drilling programmes completed in the Brunswick Junction area, have targeted bauxite mineralisation at the Shenton Ridge and Martin Road Prospects. Scout drilling at Shenton Ridge is being carried out on close spaced drill patterns where higher Available Al_2O_3 grades are intercepted. The regional exploration drilling is targeting new areas of bauxite mineralisation at surface and to date have received encouraging higher grade intersections of Available Al_2O_3 .



The objective of the drilling programme in the Brunswick Junction and Bindoon regions is to confirm historical drill results, determine the significance of mineralisation present and obtain samples for mineralogical characteristics studies (see Figure 1).

Significant bauxite mineralisation from the drilling has been intersected in both the Bindoon and Brunswick Junction regions, highlighting the excellent exploration potential of BRL's ground position. To date BRL has received assay results from the first 113 holes and further assay results are pending as drilling progresses. In the Brunswick Junction region, BRL has agreements in place with private property owners to explore and mine bauxite from a number of properties where the ground is outside the ambit of the Mining Act. Drilling at Brunswick Junction targeted the Shenton Ridge and Martin Road prospects.

Shenton Ridge Prospect

At the Shenton Ridge prospect, historic drilling by Project Mining Corporation (PMC) intersected bauxite mineralisation up to **5m at 36.4%** Available Al₂O₃ from an extensive laterite plateau. A close spaced drill pattern has been completed over high-grade bauxite mineralisation at Blackboy Hollow within an existing Planning Consent and Extractive Industries Licence, and scout drilling has been commenced on a 200m by 200m spacing over the remainder of the laterite plateau. Results from this drilling have defined a high-grade pod of bauxite mineralisation at Blackboy Hollow that is open to the north and east. *Results from Blackboy Hollow drilling are presented in Table 1 and Figure 2.*

Initial results from scout drilling over sections of the laterite plateau at Shenton Ridge have defined coherent zones of anomalous bauxite mineralisation. This first-pass drilling is ongoing with infill drilling of bauxite mineralisation planned in the near future. *Assay results from the Shenton Ridge scout drilling are show in Table 1 and collar locations are plotted on Figure 2.*

Martin Road Prospect

Historic PMC drilling at the Martin Road Prospect intersected significant bauxite mineralisation associated with lateritic ridges in the Mornington region. BRL has commenced scout drilling on a 200m by 200m spacing with initial results delineating zones of anomalous bauxite mineralisation requiring infill drilling. *Assay results from the Martin Road drilling are shown in Table 2 and collar locations are plotted on Figure3.*

Bindoon Prospect

Close-spaced drilling was completed over areas of historical drilling by CSR/Pacminex Pty Ltd at the Dewars prospect to obtain representative samples for mineralogical characterisation studies from the Bindoon region. This drilling is located within the maiden JORC resource area announced last week and demonstrates the quality of bauxite mineralisation present. *Assay results from the Bindoon drilling are shown in Table 3.*

Summary

Commenting on the results, BRL's Managing Director, Mr Daniel Tenardi, said: *"If you take into account the recent signing of MOU's with Chinese interests and our recently announced 18.2Mt Inferred Resource, we are now clearly gathering significant momentum towards our goal of becoming a bauxite producer this year, with these drilling results giving us a strong platform on which to define further high-grade resources."*

"We are now entering a critical time in our short history and the next few months will be very active in terms of ramping up feasibility studies, increasing knowledge of the resource base and securing infrastructure arrangements that are crucial to getting the project up and running this year," he added.

-ENDS-

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BACKGROUND

Bauxite Resources Limited was founded in May 2006 for the purpose of securing tenements over land deemed prospective for bauxite mineralisation. BRL listed on the ASX on 22 October 2007 after closing its A\$7.5 million IPO early and oversubscribed.

The Company is establishing itself in the bauxite and alumina industries in Western Australia and is the only ASX-listed junior bauxite explorer in the highly prospective Darling Range. This area in Western Australia is acknowledged as the largest producing alumina region in the world supplying approximately 18% of the world's alumina and the location of Alcoa's Huntly Mine, the largest producing bauxite mine in the world. The Darling Range is also the site of four alumina refineries; three of these are in the top five for lowest operating costs globally which is principally due to the gibbsite composition of the Darling Range bauxite, and its low reactive silica.

To date, the WA-owned Company has applied for 59 tenements in the four project areas of North Darling Range, South Darling Range, East Darling Range and Kimberley. The Darling Range tenements cover over 11,000km² and the Kimberley tenements cover approximately 1,100km².

Bauxite Resources is primarily focused on defining an initial sustainable economic bauxite resource sufficient to support a >3Mtpa DSO bauxite project. In the longer term the Company is reviewing opportunities for the development of an alumina refinery and possible smelter.

The recent signing of MOU's with state-sanctioned Chinese interests has further strengthened BRL's firm position as an emerging and significant resource entity.

Table 1. Results from Drilling on the Shenton Ridge Prospect, January 2009

Hole ID	MGA N (Zone 50)	MGA E (Zone 50)	Depth (m)	Intersections								
				From	To	Interval (m)	Avail. Al ₂ O ₃ %	Re. SiO ₂ %	Total Al ₂ O ₃ %	Total SiO ₂ %	Fe ₂ O ₃ %	LOI %
Blackboy Hollow												
SRV007	6,317,250	397,250	2	1	2	1 (EOH)	28.5	10.7	38.7	20.4	18.2	20.3
SRV010	6,317,300	397,250	3	2	3	1 (EOH)	40.6	11.4	28.7	37.9	18.6	13.3
SRV013	6,317,400	397,340	6	2	6	4 (EOH)	35.2	2.8	41.6	21.3	14.7	21.0
SRV014	6,317,400	397,300	3	1	3	2 (EOH)	30.1	2.6	40.5	26.8	13.9	16.8
SRV022	6,317,500	397,250	5	1	5	4 (EOH)	35.6	4.3	42.7	23.8	9.7	21.9
SRV024	6,317,600	397,250	4	2	3	1	28.3	3.5	38.2	28.3	12.4	19.2
SRV025	6,317,600	397,300	3	0	2	2	31.9	5.2	40.0	26.6	11.0	20.8
SRV026	6,317,600	397,350	4	1	2	1	31.8	2.8	42.1	17.9	18.9	19.3
SRV027	6,317,550	397,350	3	0	1	1	30.3	3.8	37.5	23.1	19.1	18.6
SRV028	6,317,550	397,300	5	0	5	5 (EOH)	34.8	2.6	41.0	22.8	13.1	21.3
SRV029	6,317,550	397,250	4	0	3	3	31.6	3.2	39.9	24.6	13.7	20.0
SRV031	6,317,500	397,300	3	0	3	3 (EOH)	34.9	2.5	39.9	24.7	11.5	22.1
SRV032	6,317,500	397,350	4	0	2	2	31.2	2.7	42.9	18.1	16.9	20.3
SRV033	6,317,450	397,350	6	1	6	5 (EOH)	32.7	2.1	42.6	20.0	15.6	20.2
SRV034	6,317,450	397,300	4	0	4	4 (EOH)	33.0	2.8	39.0	28.3	11.0	20.2
Scout Drilling (200m by 200m spacing)												
SRV039	6316600	397600	4	2	3	1	28.0	3.5	*	*	*	*
SRV053	6315800	397700	4	3	4	1 (EOH)	28.3	3.1	*	*	*	*
SRV057	6316800	397400	3	1	2	1	30.8	5.6	*	*	*	*
SRV058	6316800	397200	3	0	3	3 (EOH)	30.7	2.7	*	*	*	*
SRV063	6317000	397800	3	1	3	2	33.7	2.9	*	*	*	*
SRV064	6317000	398000	4	1	4	3 (EOH)	28.5	5.3	*	*	*	*
Available Al ₂ O ₃ and Reactive SiO ₂ analysed by bomb digest at 143°C / ICP05 at SGS. Total Al ₂ O ₃ , SiO ₂ and Fe ₂ O ₃ analysed by XRF at SGS. Intersections calculated using a lower cutoff of 27% Available Al ₂ O ₃ , minimum width of 1m and maximum of 1m internal waste. EOH denotes intersection to end of hole. * Results from pending.												

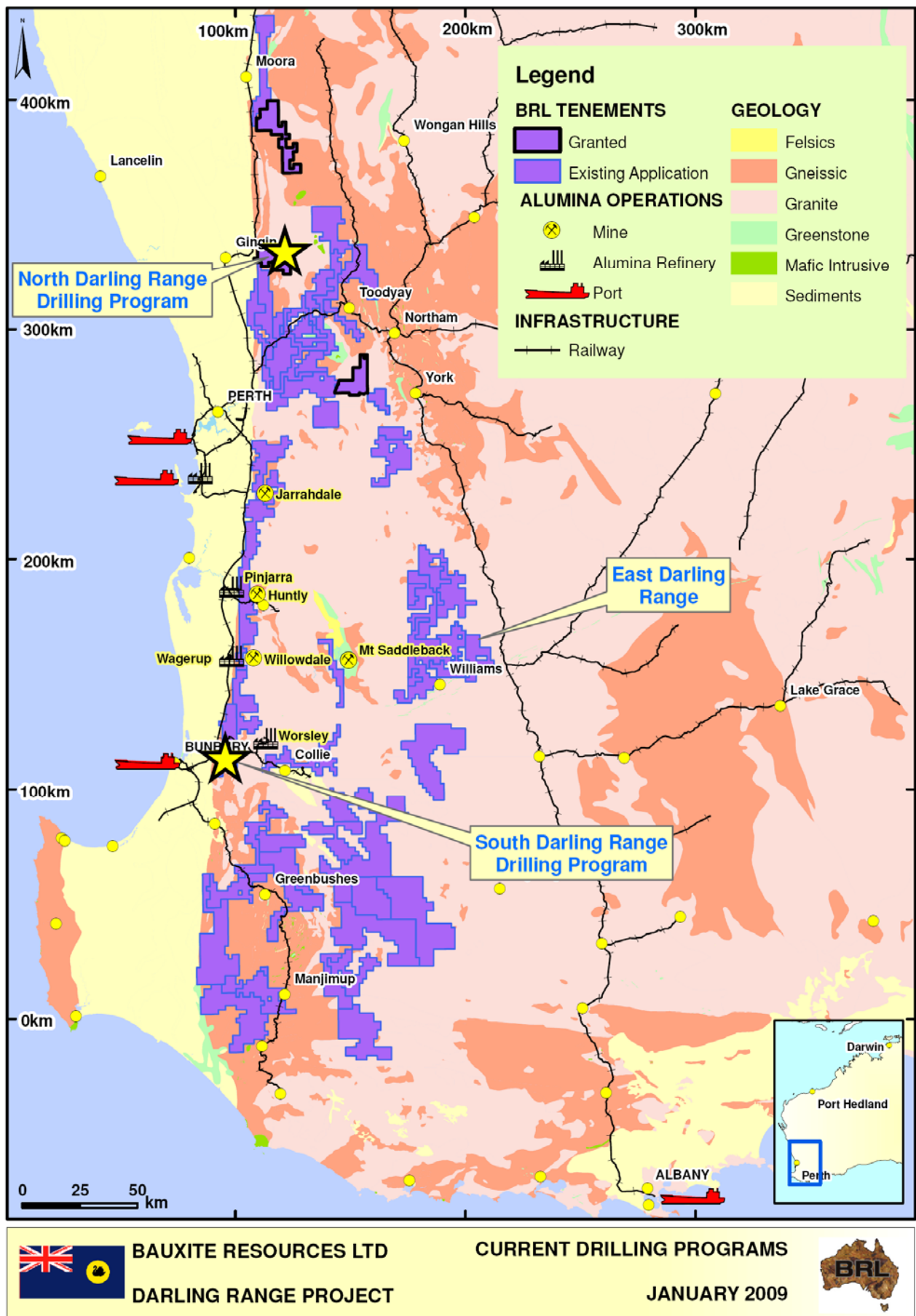


Figure 1: Location of drilling programs on North and South Darling Range projects.

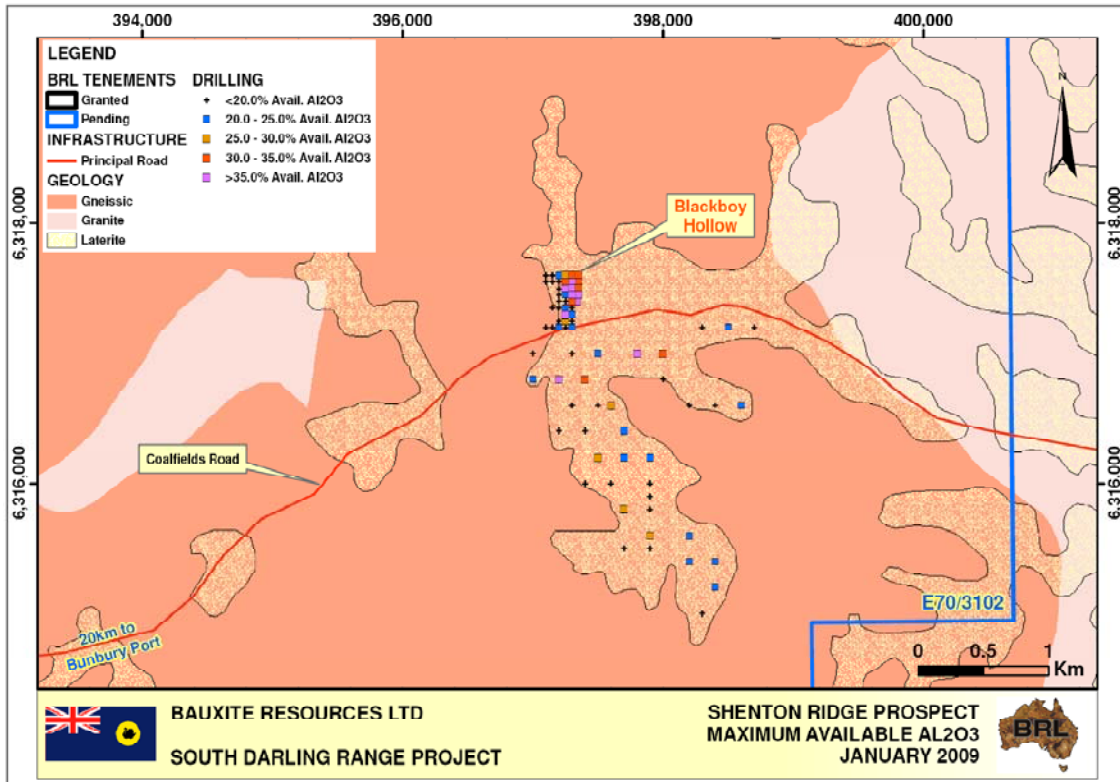


Figure 2: Maximum Available Al_2O_3 in recent drilling at the Shenton Ridge Prospect, Brunswick Junction.

Table 2. Results from drilling on the Martin Road Prospect, January 2009

Hole ID	MGA N (Zone 50)	MGA E (Zone 50)	Depth (m)	Intersections				
				From	To	Interval (m)	Avail Al_2O_3	Re. SiO_2
MR003	6329050	399380	4	0	3	3	33.3	4.2
MR004	6328871	399378	3	0	1	1	36.4	3.6
MR008	6329050	399180	3	1	3	2 EOH)	28.9	4.9
MR010	6329000	398980	2	1	2	1 (EOH)	27.7	3.9
MR011	6329000	400000	3	2	3	1	28.0	6.5
MR020	6329800	399201	4	0	4	4 (EOH)	30.7	3.7
MR021	6329992	399203	3	0	1	1	27.5	4.0
MR025	6329400	399000	4	3	4	1 (EOH)	28.6	9.1

Available Al_2O_3 and Reactive SiO_2 analysed by bomb digest at $143^\circ C$ / ICP05 by SGS. Intersections calculated using a lower cutoff of 27% Available Al_2O_3 , minimum width of 1m and maximum of up to 1m internal waste. EOH denotes intersection to end of hole. Results from Total Al_2O_3 , Fe_2O_3 , SiO_2 and LOI pending.

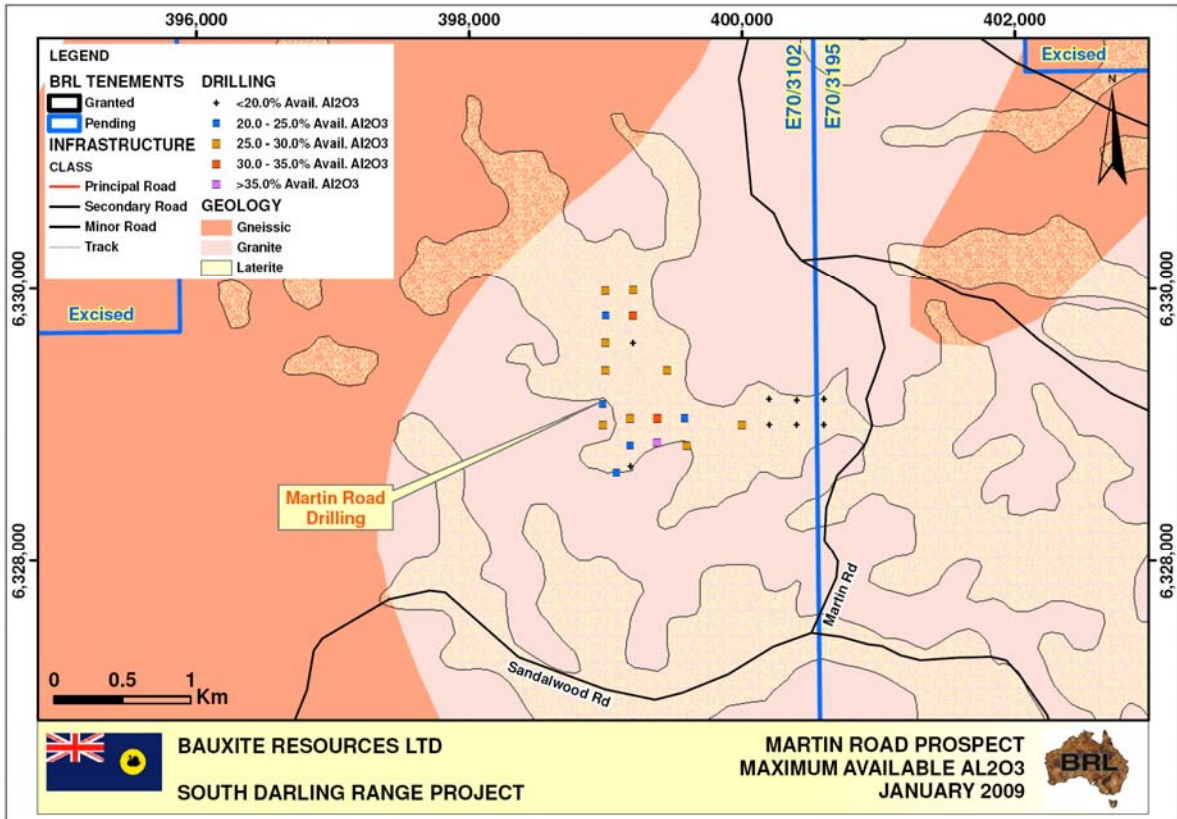


Figure 3: Maximum Available Al₂O₃ in recent drilling at the Martin Road Prospect, Brunswick Junction.

Table 3. Results from drilling on the Bindoon region, January 2009

Hole ID	MGA N (Zone 50)	MGA E (Zone 50)	Depth (m)	Intersections								
				From	To	Interval (m)	Avail. Al ₂ O ₃	Re. SiO ₂	Total Al ₂ O ₃	Total SiO ₂	Fe ₂ O ₃	LOI
BDV001	6533050	420600	7	4	5	1	32.7	2.3	41.5	6.6	26.8	22.2
BDV003	6533150	420550	8	0	3	3	31.2	1.0	42.8	2.6	29.2	19.1
BDV005	6533100	420550	7	2	3	1	27.8	3.8	37.7	6.3	32.7	19.2
BDV039	6533100	420650	10	4	10	6 (EOH)	30.1	4.3	36.6	7.6	33.2	19.4
BDV041	6533150	420650	9	4	6	2	28.7	0.9	39.3	1.9	36.5	18.0
BDV050	6533050	420700	8	0	6	6	31.6	2.7	38.2	3.9	35.9	18.7
BDV051	6533100	420700	4	0	3	3	35.8	4.2	42.8	7.6	24.5	22.0
BDV052	6533150	420700	7	1	6	5	34.6	3.0	43.3	7.0	24.3	22.3
BDV056	6533150	420600	8	0	2	2	28.8	1.5	43.0	3.2	30.6	17.5

Available Al₂O₃ and Reactive SiO₂ analysed by bomb digest at 143°C / ICP05 by SGS. Total Al₂O₃, SiO₂ and Fe₂O₃ analysed by XRF at SGS. Intersections calculated using a lower cutoff of 27% Available Al₂O₃, minimum width of 1m and maximum of 1m internal waste. EOH denotes intersection to end of hole.

In accordance with the Australian Stock Exchange requirements, the technical information contained in this report has been reviewed by Mr. Neil Lithgow, a director of the company. The information in the report to which this statement is attached that relates to Mineral Resources and Mineralisation is based on information reviewed by Mr. Lithgow, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr. Lithgow 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. Lithgow consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.