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ASX RELEASE

Resource Estimate for Lake Disappointment

The Company advises that it is in receipt of an independent, JORC compliant, Indicated Resource estimate for its Lake Disappointment potash deposit.

The resource estimates for total contained Sulphate of Potash (K_2SO_4) are as follows:

Lower estimate

7,705 Mt @ 3.17kg/t for 24.43 Mt K_2SO_4

Upper estimate

8,635 Mt @ 3.17kg/t for 27.37 Mt K_2SO_4

Mt = million tonnes

The difference between the upper and lower figure relates to depth and area assumptions for the lake margins (see figure attached).

The average potassium sulphate (SOP) content per tonne of lakebed sediment is derived from the analysis of the whole drill core. The average of 3.17 kg/t translates to 6.17 kg SOP/m^3 of lakebed material. Higher grade areas of the lake reported 10.40 kg SOP/m^3.

In practice, the recovery of SOP will be via (solar) evaporation of the entrained brine. Brine samples drawn from drill holes have returned SOP values as high as 20.01 g/L. Of significance is the average (arithmetic mean) SOP value of 12.56 g/L for all brine samples collected. Vigorous brine flow was encountered in all of the holes drilled. Brine flow parameters are currently being determined.

SOP is used extensively as a potash source in fertilizers. Imports of potash to Australia currently exceed $200 million per annum at the retail level. The current retail price (June 2007 delivery) for SOP is $632/tonne. There are no potash producers in Australia and thus imports currently account for 100% of the nations potash requirements.

Background.

Agreement was reached late last year with the Martu Traditional Owners permitting the Company access to substantial areas of Lake Disappointment for exploration. The Company has provided undertakings not to enter or disturb certain areas of the lake highlighted by the Traditional Owners as of sensitive heritage value (see figure attached).

In January 2007, Ministerial approval was received from the acting Minister for Indigenous Affairs, Hon Jon Ford JP MLC. Consent was granted for access and the use of the Land at Lake Disappointment exactly as sought in the Section 18 submission to the ACMC, tabled in December 2006.

The granting of consent allowed for the comprehensive drill assessment of the Lake Disappointment potash resource. Global Groundwater Pty Ltd were contracted to conduct the hydrogeological assessment of the Lake using a 'Geoprobe rig' in conjunction with trenching and pump testing, to enable a JORC standard resource estimate to be generated.

A total of 30 holes were drilled using a purpose built 'Geoprobe' rig, transported over the Lake by helicopter. The core retrieved from the lake was collected in sealed tubes that recover the Lake sediments as well as the entrained brine for the interval.

Drilling was carried out on a nominal 5km x 5km grid (accommodating the Traditional Owners restricted areas), being the drill spacing required for a JORC compliant resource based on a variography study carried out by RSG Global.

The drilling has determined that the lakebed sediments are at least 3 metres and up to 10 metres in thickness, averaging 4.1 metres. Heavy brine flow was encountered in every hole. A drill hole location plan is appended.

In addition to the drilling, a test-pumping programme was carried out by Global Groundwater Pty Ltd. Pumping was done at three separate trench sites to define the brine flow characteristics of the lakebed sediments.

Extensive geotechnical test work and chemical analysis is being carried out on the core samples to determine the brine flow characteristics of what is ostensibly an aquifer. Once the flow parameters are defined engineering studies and design work will commence, in conjunction with the establishment of a pilot scale operation on the lake.

MICHAEL RUANE
Director

We advise in accordance with Australian Stock Exchange Limited Listing Rules 5(10) and 5(13) that the Ore Resources statement in the Announcement by Reward Minerals Ltd dated 13 March 2007 is based on information compiled by Mr Simon Coxhell who is a corporate member of the Australian Institute of Mining and Metallurgy. Mr Coxhell 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 Coxhell has consented in writing to the inclusion of the Ore Resources statement in the Announcement dated 13 March 2007 of the matters based on his information so compiled by him in the form and context in which it appears.

We advise in accordance with Australian Stock Exchange Limited Listing Rules 5(6) that the exploration results contained within this ASX Release is based on information compiled by Mr Greg Cunnold who is a member of the Australian Institute of Mining and Metallurgy. Mr Cunnold is a full time employee Reward Minerals Ltd and has consented in writing to the inclusion in this ASX Release of matter based on the information so compiled by him in the form and context in which it appears. Mr Cunnold has sufficient experience relevant to the style of mineralisation and type of deposit under consideration to be qualified as a Competent Person as defined by the 2004 Edition of the "Australian Code for reporting of Exploration Results, Mineral Resources and Ore Reserves".


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GP11
GP32
GP29
GP30
7420000 N
7400000 N
7380000 N
160000 E
140000 E
120000 E
STOCK ROUTE
CANNING
asscomp by k2sO4T
4 to 55.3 (7)
3 to 4 (4)
2.5 to 3 (12)
2 to 2.5 (3)
1 to 2 (2)
0 to 1 (6)
Reward Minerals Ltd
Lake Disappointment
Potassium Sulphate Project
Colour Coded Drill holes
by K2SO4 content
Resource Outlines
Date: 13/3/2007
Author: SG
Office: Perth
Drawing:
Scale: 1:250000
Projection: MGA Zone 52 (GDA94)
0 2.5 5 10
kilometres


7430000 m
465000 mE
475000 mE
485000 mE
495000 mE
7420000 m
7410000 m
7400000 m
7390000 m
7380000 m
7370000 m
E45/2801
E45/2803
E45/2802
E69/2156
E69/2158
E69/2157
LAKE DISAPPOINTMENT
Sir Fowell Headland
Reward Minerals Ltd
Lake Disappointment Project
Drillhole and Tenement
Plan
Date: 13/3/2007
Author: NJC
Office: Perth
Drawing:
Scale: 1:250000
Projection: Longitude / Latitude (AGD 66)
0
2.5
5
10
kilometres
Legend
Exclusion Zone
Tenement Boundary
Drillhole Location