

Rio Tinto Exploration Pty. Limited

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A member of the Rio Tinto Group

Annual Report
For the Period 18 May 2008 to 17 May 2009
EL 22413 Baiguridji River
Blue Mud Bay SD 5307
Northern Territory

Exploration Report No. 28498

Tenement Holder: Rio Tinto Exploration Pty Limited

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RTX Perth Information Centre

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SUMMARY OF ACTIVITES

Exploration Licence (EL) 22413 Baiguridji River was applied for by Rio Tinto Exploration Pty Limited (RTX) on 11 February 2000 and was granted on 18 May 2006. RTX is the sole manager and operator of this tenement. The original tenement application covered an area of 117km² (35 sub blocks) of which only 66.9km² (20 sub blocks) gained consent. The remainder of the application area did not gain consent, and was subsequently relinquished. In 2008, 50% of the granted tenement (10 blocks) was relinquished. EL 22413 is located 150km southwest of Nhulunbuy, east Arnhem Land, and consequently is processed under the Aboriginal Land Rights Act 1975 (ALRA).

This is the third annual report and describes the exploration completed during the third year of the tenement. Work was to include shallow drill testing of the low laterite surface, however due to rig availability and access issues this was not completed prior to wet season. EL 22413 forms part of a larger contiguous tenement package in east Arnhem Land, which is prospective for bauxite and base metals.

EL 22413 covers part of the subtle plateaus south of the Frederick Hills, and east of the Mitchell Ranges. This area has undergone a similar geomorphological history to that of the Cato Plateau, which is a known area of bauxite mineralisation of similar style to the nearby world class Gove deposit. The area is also considered prospective for base metal mineralisation similar to that of McArthur River (HYC) in the McArthur Basin. Diamonds are a subsidiary target.

Exploration to test the low laterite surface for bauxite was attempted but was not successful due to rig availability. Issues with a river crossing to access the prospective area also hindered the programme. A meeting was held at Gan Gan on the 16th December 2008 to discuss the work programme and project with the Traditional Owners. Testing of the target is planned for late 2009 dry season when access is most likely possible.

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Report No. 28498

Page 3

VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	28498 Baiguridji River	.pdf
Other (specify)	pAl09_004.pdf (Tenement Location)	.pdf
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics Electromagnetics		
Gravity		
Digital terrain modelling		
Other (specify)		
Remote Sensing		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)		
Ground Exploration Surveys		
Geological Mapping		
Regional		
Reconnaissance		
Prospect		
Underground Costean		
Ground Geophysics		
Radiometrics		
Magnetics		
Gravity		
Digital terrain modelling		
Electromagnetics		
SP/AP/EP		
IP		
AMT		
Resistivity		
Complex resistivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Other (specify) Geochemical Surveying		
Drill sample		
Stream sediment		
Soil		
Rock chip		
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		
Drilling		
Aircore		
Auger		
Diamond Reverse circulation		
Reverse circulation		
Rotary air blast Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling		
File Verification Listing (this table)	28498 Baiguridji River V.doc	.pdf
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