



Rio Tinto Exploration Pty. Limited

ABN 76 000 057 125 / ACN 000 057 125

A member of the Rio Tinto Group

**First Annual Report
For the Period Ending 8 June 2005,
EL24304 & EL385 Walker River,
SD5307 Blue Mud Bay,
Northern Territory**

Exploration Report No. 27368

Tenement Holder:	Rio Tinto Exploration Pty Limited
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SUMMARY OF ACTIVITIES

Exploration Licence (EL) 385 was applied for in 1972 by CRA Exploration Pty Limited (CRAE). Partial consent of the application area resulted in the granting of two separate licences (ELs 385 & 24304) in June 2004. The tenements are located approximately 180 km south-west of Nhulunbuy, and 80 km north of Numbulwar in south east Arnhem Land and consequently are processed under the Aboriginal Land Rights Act 1975 (ALRA).

The tenements are considered prospective for base metal mineralisation, similar to that at McArthur River (HYC) in the McArthur Basin. Subsidiary targets are diamonds and bauxite. The tenements contain McArthur Group equivalent sediments adjacent to the eastern margin of the Walker Trough. McArthur Group sediments are host to the McArthur River (HYC) lead-zinc deposit located approximately 300 km to the south.

Exploration completed during the current reporting period was directed at locating a stratabound base metal deposit and has comprised:

- Soil sampling (274 samples)
- -80# stream sediment sampling (23 samples)
- -1 mm gravel sampling (7 samples)
- Rock chip sampling (8 samples)

Results to date have not identified any anomalous metal levels in any of the samples. Further work in 2005 will be directed at sampling below the transported sand cover present on the eastern (coastal) side of the Coast Range.

VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	27368 Walker River	.pdf
Other (specify)	26851 Walker River MMP WAp45609 WAp46091	.pdf .pdf .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	WR_2004_stream_sediments WR_2004_gravels	.txt .txt
Soil	WR_2004_soil_samples	.txt
Rock chip	WR_2004_rock_samples	.txt
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis	WR_2004_mineralchemistry	.txt
Other (specify)		
Drilling		
Aircore		
Auger		
Diamond		
Reverse circulation		
Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling		
File Verification Listing (this table)	27368 Walker River V	.pdf

