

ANNUAL TECHNICAL REPORT

ML 29913 - EMERALD HILL

PERIOD ENDING 21/4/18

Title holder	Outback Metals Pty Ltd
Operator (if different from above)	Outback Metals Pty Ltd
Titles/Tenement	ML 29913
Mine/Project Name	EMERALD HILL
Report Title including type of report and reporting period including date	Annual Technical Report for ML 29913 from 22/4/17 to 21/4/18
Corporate Authors	Outback Metals Pty Ltd
Company Reference No:	ATR – ML 29913 - 2018
Target Commodity or Commodities	Tin & Rare Earths
Date of Report	May 2018
Datum/Zone	Zone 53
250 000K mapsheet	Katherine
100 000K mapsheet	Katherine
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EXECUTIVE SUMMARY:

Exploration and mining activity at Emerald Hill is reliant upon further development of the processing plant at Mt Wells. The deposit at Emerald Hill is too small to be a stand alone project.

A site visit was carried out for reconnaissance purposes.

PROPERTY DESCRIPTION, LOCATION AND TENURE OF MCNs 1366 and 1369

The Emerald Hill Prospect is part of the Edith River tin district and is located 15km north of the Mt Todd tin field in the southeast quadrant of the Pine Creek Geosyncline in close proximity to the Middle Proterozoic sandstones which form the escarpment and plateau country of the Katherine River National Park.

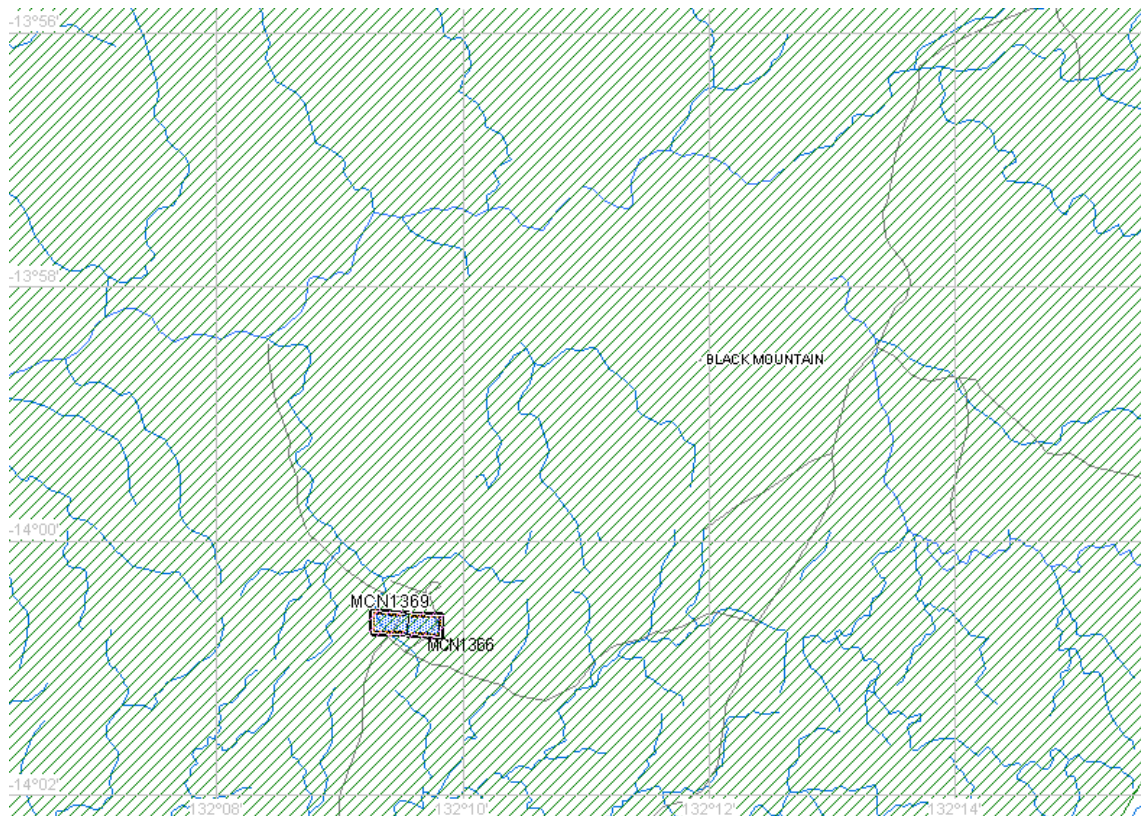
Table 1: Tenement Details

MCN	Hectares	Grant Date	Expiry Date	Easting (approx)	Northing (approx)
1366	16.0	24 th Aug 1987	31/12/2016	132° 09' 40"	-14° 00' 30"
1369	16.0	24 th Aug 1987	31/12/2016	132° 09' 20"	-14° 00' 30"

MCN 1366 & 1369 were first transferred to Corporate Developments Limited (CDL) in 1995 (who purchased the tenements from Denehurst Limited).

At that time of the transfer the MCN's had been granted until 31/12/2001. Corporate Development Limited reapplied and was given a 5 year renewal which ended on 31st December, 2006. In 2006 the MCN were reapplied for and renewal was given until 31/12/2016.

MCN 1369 & MCN 1366 ceased (section 204) on the 22nd April, 2013 upon the issue of Mineral Lease 29914 for a period of 6 years until 21/4/19.



Location map of Emerald Hill Tenements

PREVIOUS EXPLORATION

The Emerald Creek mine is located approximately 9km south of the Horseshoe Tin Field and comprises open cut mines and alluvial workings which were worked between 1908 and 1913.

The majority of tin production, which totalled 43t of Sn concentrate, came from alluvial deposits which were extracted during the six year period.

The mineralization originates from iron rich quartz reefs which have intruded Burrell Creek Formation metasediments. Sulphides are present in the primary ore shoots.

McMahon (1968) describes the deposit as a quite large tin lode localised along shear zones.

Little to no tin exploration has occurred since mid 1960's, however the mine was re-opened in the mid 1970's. A large quantity of tin was produced during this period.

Current exploration in the area is concentrating on tin and rare earths.

EXPLORATION CARRIED OUT BY CDL

Several site visits and reconnaissance visits by geologists for sample collections have been carried out during this period. OUM subsidiary CDL acquired the services of Mr C J Robinson and commissioned a report on the Emerald Hill Mineral Claims; in his report, Mr Robinson noted that Emerald Hill is regarded as a prospect that with little work could be mined and trucked to Mount Wells for treatment.

The cassiterite/kaolin/quartz lode occupies a shear within soft greywackes, with dimensions of 22m x 2m visible at surface and in workings. The prospect is tentatively regarded as a pipe, though only one control is seen – the footwall shear in the slot and tunnel. Grades range from 2% Sn to 47% Sn.

OUTBACK METAL'S EXPLORATION

The Emerald Hill prospect forms part of a group of projects supporting the opening of the Mount Wells tin/copper mine.

Due to the decline in tin and copper prices, and other exploration priorities in the NT, field work was limited on the to a site visit.

The deposit at Emerald Hill is too small to be a stand-alone project.

Exploration and mining activity at Emerald Hill is reliant upon further development of the processing plant at Mt Wells.