

Lottah Mining Pty Ltd

Annual Report

Exploration Licence 18/2007

For the period

July 2013 – July 2014

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15th May 2015

For

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MAP CONVENTIONS

Co-Ordinates in this report and in digital data associated with this report are recorded as MGA_94
Zone 55

RL's in this report are MSL

EXECUTIVE SUMMARY

This report covers exploration activities completed on EL18/2007 Rogetta during the 2013 to 2014 period.

Exploration completed over the past 12 months included assessment of the 2012 drilling programme to prepare for further drill targets and the re-calculation of drill hole collar co-ordinates based on a MGA_94 base.

GDH Engineering were contracted to conduct preliminary engineering and site surveys for the construction of the open pit, processing site and tailings storage facility.

The EL forms part of a tenement package prospective for magnetite and tungsten mineralisation in the vicinity of the House Top Granite in NW Tasmania. *The Rogetta iron deposit is deeply weathered and comprises a mixture of magnetite hematite and limonite in iron rich clays.*

A 50m x 50m infill drilling program *is proposed during 2014 – 2015* to provide data for an upgrade of the resource from inferred to measured status and to test for additional resources within the current resource model envelope at Rogetta North.

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1 INTRODUCTION

EL 18/2007 Rogetta is one of six current licences held by Blythe River Iron Ore Pty Ltd (BRI), Purchased from Red River Mining (ASX:RVR) and Iron Mountain Mining (ASX:IRM). The tenement package is detailed below:

Table 1 Tenement Details of the Blythe River Project

EL	Name	Held By	Size(km ²)	Expiry	Comments
EL6/2005	Cuprona	BRI	22	07/09/2014	Renewal granted
EL15/2006	Camena	BRI	30	Expired	Awaiting grant of new EL 11/2014
EL25/2009	Highclere	BRI	33	25/05/2015	1 year remaining
EL35/2006	Hampshire 1	BRI	89	25/02/2015	Renewal granted
EL18/2007	Rogetta	BRI	70	09/07/2014	Renewal granted
EL53/2007	Mt Everett	BRI	47	18/12/2014	Renewal granted

Permission to submit a combined annual report for all tenements of the Blythe River Project was granted on 10 June 2009. EL18/2007 was granted on 10th July 2007 and was added to the reporting area. The Board of BRI decided to return to separate annual tenement reporting in early 2012.

Five of the six tenements are approaching the end of their tenure terms. Extension to the tenement terms and diligent commitment to work programmes have been granted or await grant. Much of the work completed has been focussed on EL18/2007, Rogetta.

The Blythe River Iron Project comprises of a number of small to medium size magnetite skarn deposits in NW Tasmania approximately 30km south of Burnie (See Figs 1 and 2) Exploration is focussed on resource delineation of semi-massive to massive magnetite deposits to generate a resource base for magnetite mining operations for the iron ore market.

The Hampshire 2 EL hosts the Kara2 North iron ore resource, a magnetite skarn similar to the Kara skarn.

2 REGIONAL GEOLOGY

The Blythe River Iron Ore Project is located on the western margin of the Dial Trough and is underlain by Late Proterozoic Oonah Formation, Owen Group siliclastics, Gordon Group limestone, Devonian granites and Tertiary basalt (See Fig 1) The Dial Trough possibly includes a northern extension of the Hellyer Fault, with significant basin-bounding faults on its eastern and western margins. The Devonian post-orogenic Husetop Granite terrain occupies much of the country to the south of the project area and is thought to underlie much of the southern Dial Trough. Stratigraphic correlations are uncertain for many Dial Trough units as the geology is poorly known.

Oonah Formation

The Neoproterozoic Oonah Formation comprises the oldest rocks in the area. The formation consists of polydeformed quartzwacke, siltstone and pelite with minor dolerite intrusives. These lithology's are overlain by a sequence of pelite-carbonate with minor mafic volcanic and conglomerate. This association is host to replacement mineralisation at Mt Bischoff and near Zeehan. It thus has potential to host similar styles of skarn style mineralisation.

Mt. Read Volcanics

The Upper Cambrian Mt. Read Volcanics have been correlated with the felsic volcanoclastics of the Western Volcano-sedimentary sequence and the Tyndall Group quartz-feldspar phyric volcanoclastics.

Owen Group

The Late Cambrian to Ordovician Owen Group overlies the Mt. Read Volcanics and is mainly comprised of silic-clastic conglomerate and sandstone. Locally there are volcanically derived conglomerates associated with basal members. The Moina Sandstone is the uppermost silic –clastic unit of the Owen Group. It is a coarse to fine silic-clastic sandstone with minor intercalated conglomerate. It has a gradational contact with the overlying Gordon Group.

Gordon Group Limestone

Gordon Group limestone and dolomite conformably overlies the Owen Group. Its stratigraphic thickness regionally varies between 50 and 100m. The Gordon Group comprises a lower siliclastics member, a transitional zone which gradates into the Upper Gordon Limestone member. The Group hosts the Kara District magnetite skarns.

Husetop Granite

The Husetop Granite was intruded contemporaneously with the Devonian Tabberabbera Orogeny. Husetop Granite outcrops over much of the Blythe River Project and is believed to extend below much of it. There are further granite intrusions peripheral to the main Husetop Granite's southwest margins. These later granites are of different composition to the Husetop Granite, suggesting they may be granite dykes related to gneiss from the main granite. Previous workers concluded that Husetop Granite is anomalously dense and very magnetic which may account for the abundance of iron metasomatism in the district, including the massive Magnetite-Sn-WO₂ mineralisation in the

Kara area. There is known association of Tasmanian Devonian granites with Magnetite-Sn-WO₂, Pb-Zn-Ag and Au mineralisation.

Tertiary Basalt

Basalt flows are widespread throughout the Blythe River Iron Project area, flooding Tertiary palaeo-topographic lows. The basalts vary widely in thickness and frequently exhibit high magnetic susceptibility causing difficulties with magnetite exploration below this Tertiary cover. Recent resource and exploration drilling at Kara Mine has shown that magnetite skarn extends below basalt cover.

Quaternary Alluvium

Quaternary alluvials were deposited on what are now alluvial plains and on river valley floors.

Mineralisation

Skarn style mineralisation is associated with the Devonian Granites. In the region there are skarns of varying sizes with varying mineral suites. In the Blythe Project Area the skarns are small, hosted by limestone or limestone – related lithology's of Cambro – Ordovician Age where they are close to or in contact with Devonian granites. The skarns have a complex mineralogy of iron silicates including garnets, pyroxenes and amphiboles plus other iron – rich minerals such as magnetite and siderite. Similar mineralisation to that observed in the Blythe Project area is seen at Mt. Lindsay and at Nelson Bay. In EL18/2007 at Kara 2, mineralisation is of the calc – silicate – magnetite type.

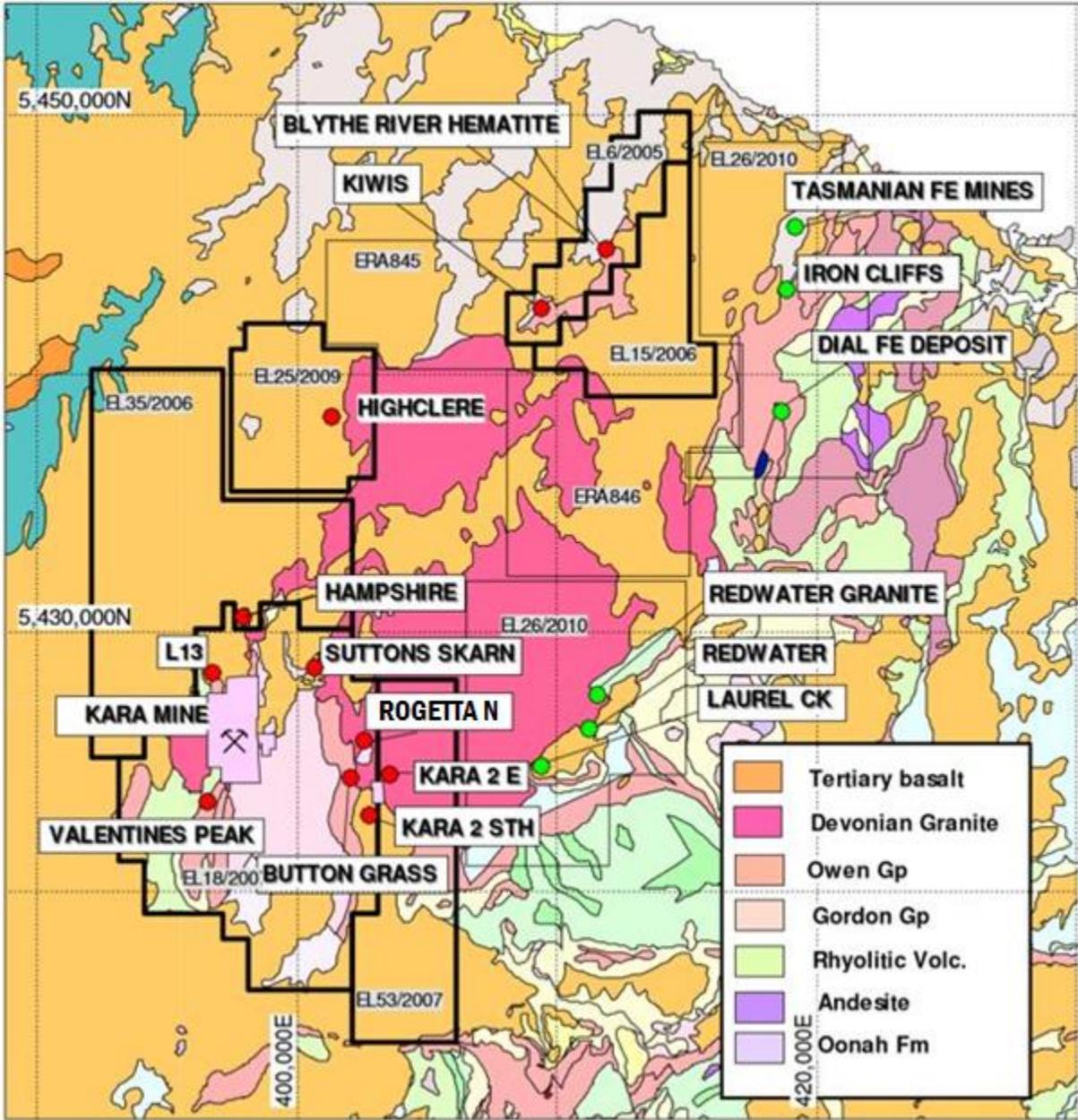


Figure 1. Blythe River Project location, Fe Prospects and MRT 250k Geology. Red dots are Blythe Project Fe prospects, green dots are other regional Fe Prospects.

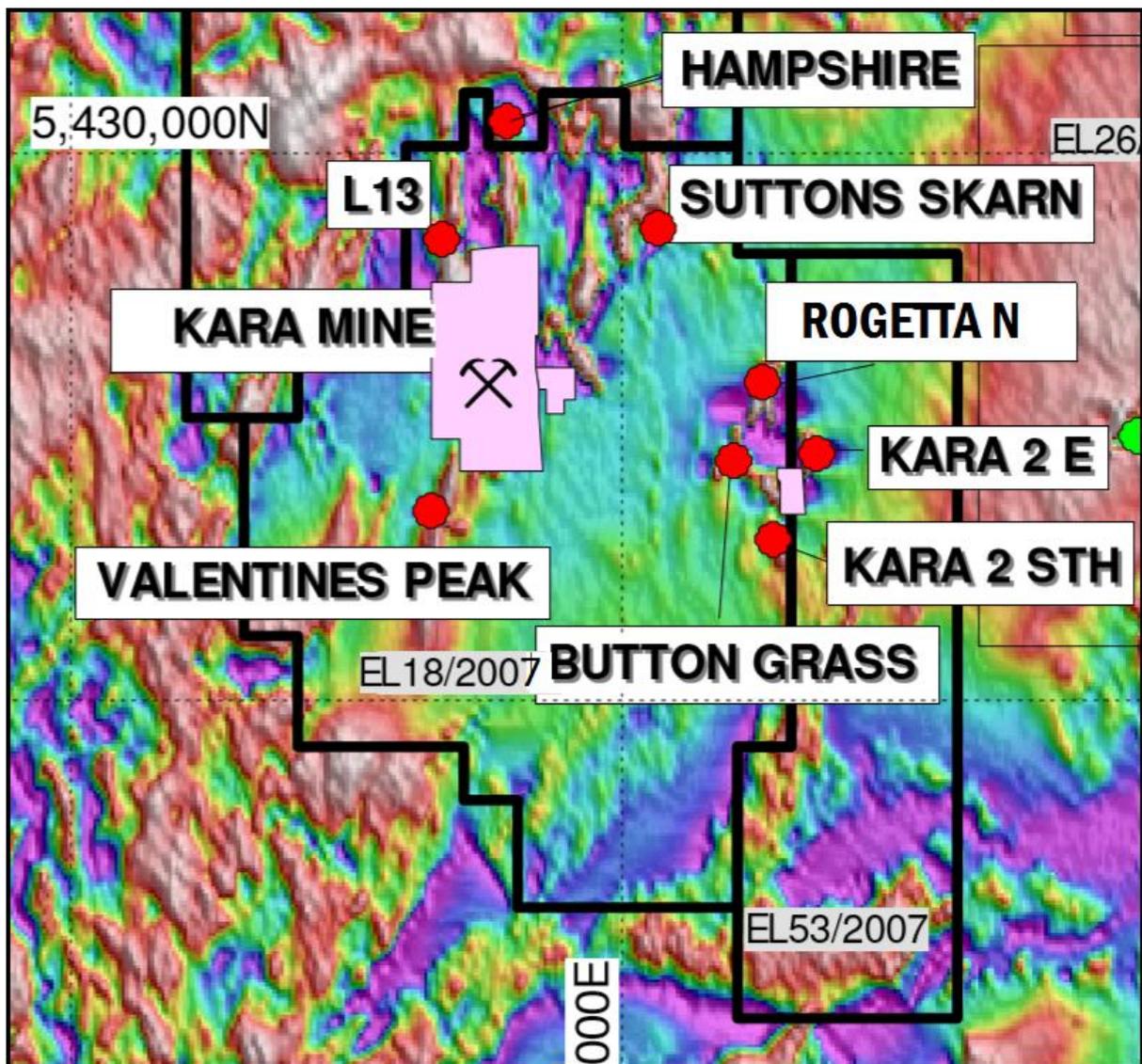


Figure 2. Blythe Project tenements, TMI and prospect locations. Red dots are Blythe Project Fe prospects, green dots are other regional Fe Prospects.

3 EXPLORATION HISTORY

In 1969 an EL was granted to Messrs Hinkley and McDonald which covers much of the current exploration area. It included the current Kara Mine operations. Also in 1969 ownership of the EL was consolidated under Singline and then transferred to Tasminex.

There followed a joint venture between Tasminex and ANZECO from 1971 to 1974. The area was subject to a further joint venture between Tasminex and McIntyre Mines between 1977 and 1985. Between 1986 and 1990 exploration and development of Kara is recorded to have been under a Tasmania Mines Ltd – Tasmania Mines NL venture.

Between 191-1984/1986-1990, McIntyre Mines – Tasminex/Tasmania Mines Ltd – Tasmania Mines NL developed Kara Mine under a mining licence within the exploration licence outlined above.

In 1977 Pennzoil reported exploration in the area. In 1981 the same exploration licence was reported under a Duval Mining Australia – Geopeko Limited venture.

A COMALCO – Shell joint venture is recorded to have explored three exploration licences in the area in 1982 and 1983. One of the exploration licences included Billiton Australia as a venture partner.

BHP reported exploration on a licence in the area in 1984. This programme was continued under a Billiton/CRAE/COMALCO/Shell joint venture until 1987 with an additional tenement reported on in 1987.

In 2005 Red River Resources took up the majority of the current project area. In 2007 a joint venture between Red River Resources and Iron Mountain Mining Ltd was formed in which Iron Mountain became the operator.

Management of the tenements comprising the Blythe Project was assumed by Forward Mining in 2010.

Mining in the area commenced in 1978 at Kara #1 and was continued at Bob's Bonanza Pit. Initially mining focussed on scheelite production with magnetite fines production as a by-product. Between 1978 and 1993 Kara/Bob's Bonanza produced:

Scheelite:

Total ore mined – 1,738,990

From which 3,714.4t of high grade (+65%WO₃) scheelite concentrate

And 2,617.4t of low grade (+40% WO₃) scheelite concentrate was produced.

Magnetite fines sales:

Total ore mined – 1,474,823

From which 778,042t of magnetite fines was sold (note: there are no magnetite fines sales records available for the years 1984 and 1986)

4 WORK COMPLETED 2013 –2014

Most of the exploration carried out within EL18/2007 during the 2013 – 2014 reporting period has been directed towards the grant of a mining licence over the Rogetta North resource. In addition to on-going testing and monitoring, planning preparation for the following was carried out:

- Testing and monitoring of the hydrogeological conditions in and surrounding the magnetite resource.
- Testing and monitoring of the hydrogeological conditions at the proposed tailings storage facility, waste storage facility and process plant sites.
- Geotechnical investigations of the proposed open pit walls and proposed process plant site.
- Metallurgical drill hole sites to recover magnetite ore for plant process design and to augment the resource model generation.
- A total of 33km² from two separate blocks are were relinquishment from EL18/2007. The areas for relinquishment are outlined in Figure 3.
- Two hydrologic investigation drill holes completed.
- One geotechnical drill hole completed, one started.
- One PQ core metallurgical drill hole started.

The results from these drilling programmes will be reported in the 2014 – 2015 annual report for the tenement.

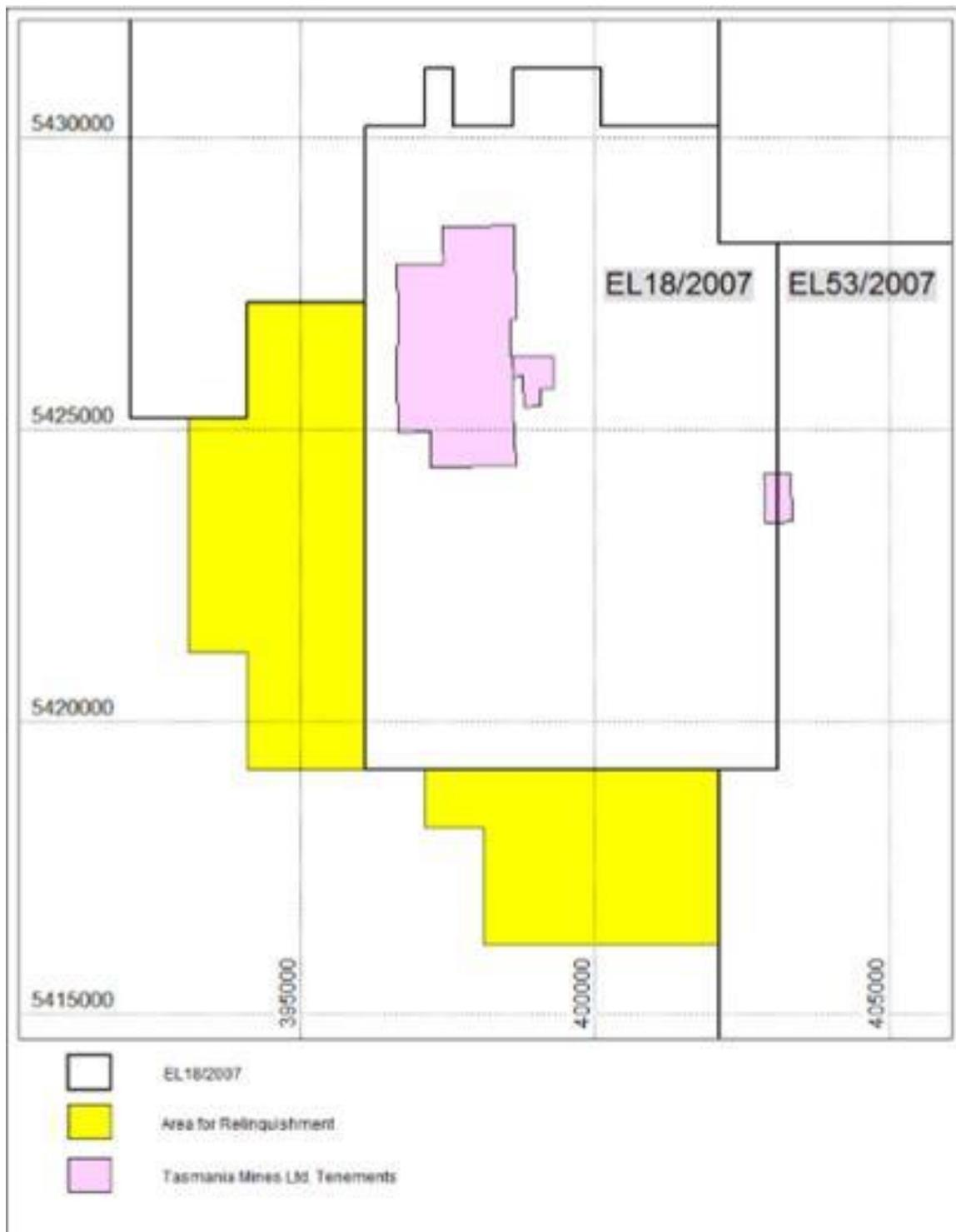


Figure 3. Areas relinquished from EL18/200 during July 2013-July 2014.

5 DISCUSSION

In early 2014 the Blythe River Iron Project changed ownership from Forward Mining to Lottah Mining Pty Ltd (LMPL). The change in ownership delayed some of the projected work for the 2013-2014 year.

During July 2013-July 2014 drilling included two hydrologic investigation drill holes completed, one PQ core metallurgical drill hole started and one geotechnical drill hole completed, one started. The results from these drilling programmes will be reported in the 2014 – 2015 annual report for the tenement.

LMPL is committed to successfully continuing the Blythe River Iron Project.

6 PROPOSED WORK PROGRAMME

The 2014-2015 work programme for Rogetta will include:

- 50m x 50m infill drilling to provide data for an upgrade of the resource from inferred to measured status and to test for additional resources within the current resource model envelope at Rogetta North.
- Aeromagnetic survey of EL18/2007.
- Ground geophysical surveys on EL18/2007.
- Drilling program at Rogetta South.
- Ground reconnaissance in the Button Grass region.
- Geotechnical investigations.
- Application for Mining Licence for Rogetta North.

6.1 PFS AND BASELINE STUDIES

GHD will finalize PFS studies on the Blythe River Iron Project mining, processing, waste dump and Tailings Storage Facility. Included with these will be finalization of the baseline environmental studies required for environmental permitting and application of a Mining Lease.

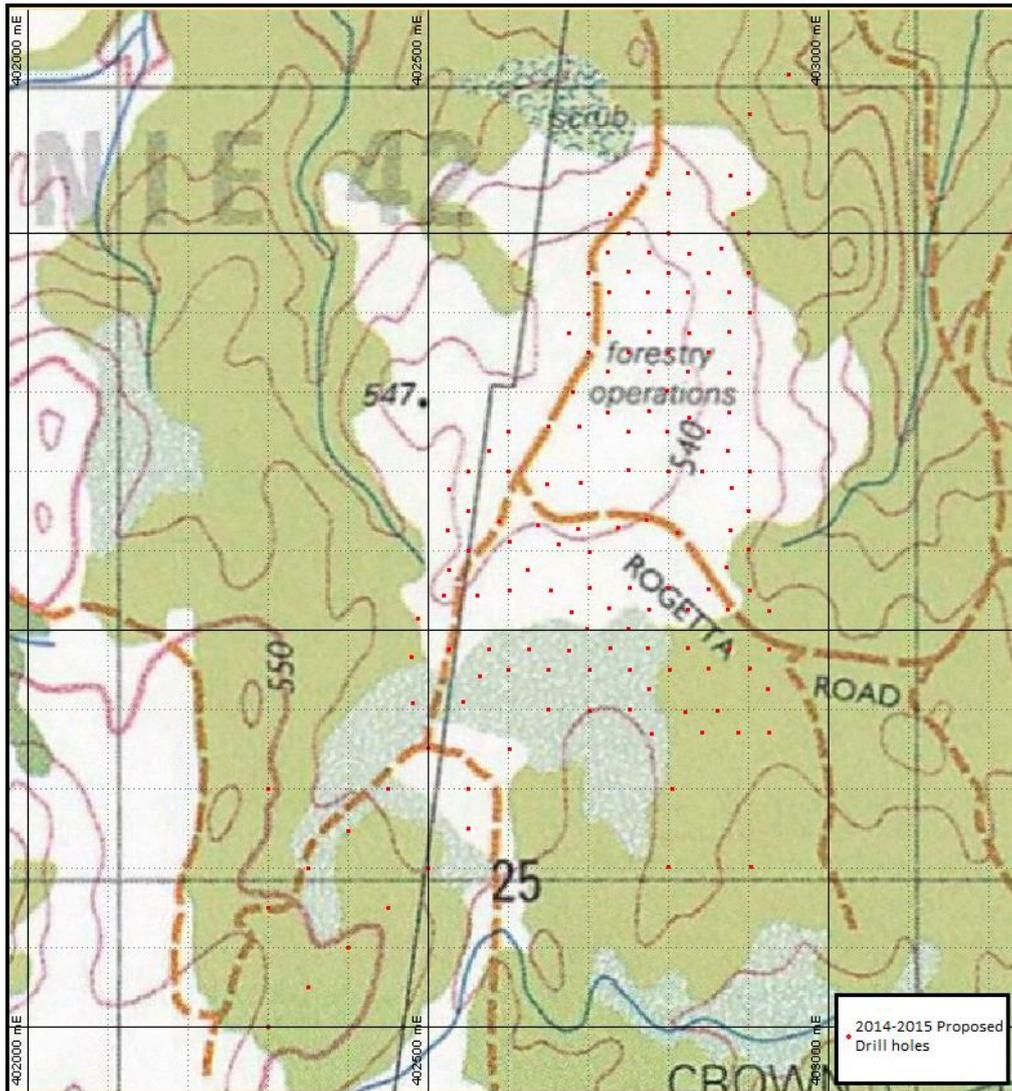


Figure 4. Lottah Mining Pty Ltd proposed 2014-2015 Infill Drilling Campaign at Rogetta North.

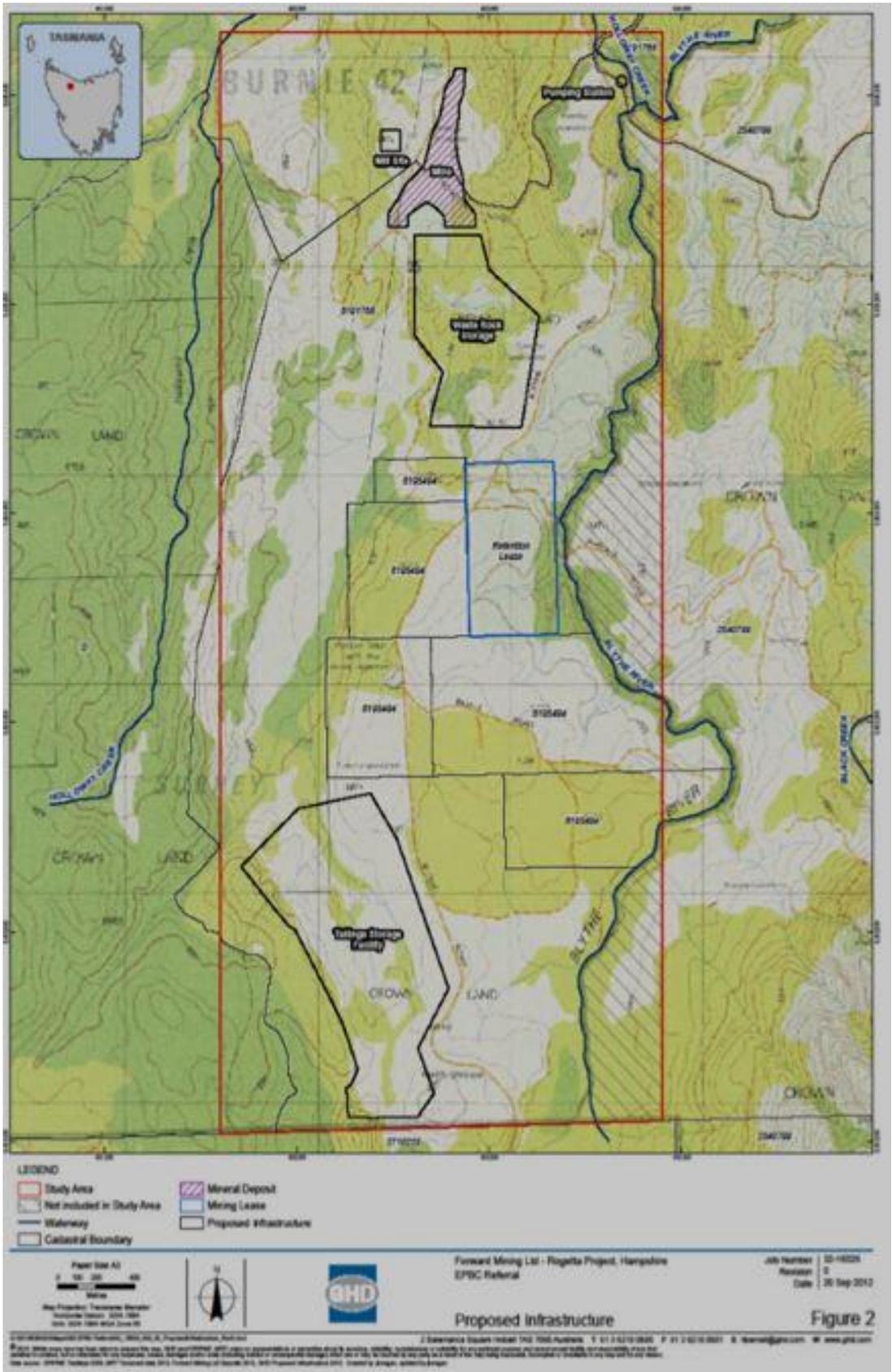


Figure 5. Blythe River Iron Project Proposed site layout.

7 ENVIRONMENTAL

Drill holes have been backfilled and marked with star pickets. The earthworks have not yet been rehabilitated with the exception of backfilling of the sumps and drill collars as further drilling is anticipated in the coming year.

All access roads will be rehabilitated on completion of the proposed work program.

8 EXPENDITURES

Predicted expenditures for the July 2014 – July 2015 period = \$1,500,000.00

REFERENCES

Callaghan, TJ, 2011. Combined Annual Report for Blythe River Project EL6/2005, EL15/2006, EL18/2007, EL53/2007 and EL25/2009. Forward Mining Ltd. Unpub. Report.

Callaghan, TJ, 2011. Kara No. 2 North Mineral Resource Estimate NW Tasmania. Forward Mining Limited. Unpub. Report.

Callaghan, TJ, 2012. Blythe River Project Annual Report EL18/2007 Hampshire 2 NW Tasmania. Forward Mining Limited. Unpub. Report.

Callaghan, TJ, 2013. Blythe River Project Annual Report EL18/2007 Hampshire 2 NW Tasmania. Forward Mining Limited. Unpub. Report.

Callaghan, TJ, 2013. Blythe River Project Partial Relinquishment Report EL18/2007 Hampshire 2 NW Tasmania. Forward Mining Limited. Unpub. Report.

Kusnander K., Mayer A., Zlatkov G., 2009. Blythe Project Northern Tasmania Annual Report for EL18/2007 ("Hampshire 2"). Iron Mountain Mining Limited. Unpub. Report.

Tear, S., 2011. Independent Geologist's Report Exploration Properties in NW Tasmania, Forward Mining Limited. Hellman & Schofield Pty Ltd., Unpub. Report

APPENDIX 1

Exploration reporting details from 1969 to 1990

Report	69_0553
Date	1/04/1969
Authors(s)	Hughes, T.D.
Title	Natone Area - EL 14/68 and EL 13/68
Company(s)	Hinkley D W, McDonald E H
Tenement(s)	EL13/1968, EL14/1968
Physical Description	1 volumes 4PP, 1 PLAN,
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80151 Burnie
Geographic	Blythe River, Burnie, Natone
Activities	Diamond, Drilling
Minerals	Hematite, Iron, Magnetite, Pyrrhotite
Deposits	Natone
Keywords	Fault Mineralisation, Rocky Cape Region(S)
Annotation	Drilling in a geophysically anomalous area has commenced, but is hampered by wet conditions.
Report	77_1213
Date	1/05/1977
Authors(s)	Chapman, J.R., Scott, T.B.
Title	Progress Report to 30 April, 1977 Exploration Licence No. 24/73, Dial Range Project - Tasmania.
Company(s)	Pennzoil of Australia Limited
Tenement(s)	EL24/1973
Physical Description	1 volumes 11PP, 1 FIG, 7 PLANS,
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	81154 Ulverstone
Geographic	Adit Creek, Allison Creek, Dial Range, Hardstaff Creek, Revell Creek, Walloa Creek, Whisky Creek
Activities	Analysis, Diamond, Drilling, EIP/MIP, Geochemistry, Geophysics, Logs, Metallic minerals, Misc and Fuels, Ore Genesis, Resistivity, Soil (A,B,C horiz)
Minerals	Base Metals, Chalcocite, Chalcopyrite, Copper, Pyrite
Deposits	Dial, Russell
Keywords	Dial Range Trough(S), Felsic Volcanics, Gossan, Stratigraphy, Vein Mineralisation, Volcanic Hosted Mineralisation
Annotation	Drilling has shown that the environment on the Dial Mine grid, in which extensive gossanous pyroclastics occur, is a large pyritised volcanoclastic/ sediment sequence probably near a vent but too unstable to allow accumulation of an extensive sulphide body. However, DDH4 indicated the presence of a favourable environment for economic sulphide deposition near the old Dial Mine adit and further work is recommended. Geochemical and geophysical surveys in the Whiskey Ck, Russells Mine and Lings Farm areas failed to produce encouraging results and no further work is recommended.
Report	UR1980_15
Date	4/06/1980
Authors(s)	Matthews, W.L.
Title	Subsurface Investigations at the Guide River Dam Site.
Company(s)	
Tenement(s)	
Physical Description	1 volumes 12PP, 5APPX, 3TABLES, 12FIG
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80151 Burnie
Geographic	Guide River

Activities	Auger, Diamond, Drilling, Engineer. Geol, Geology, Geophysics, Logs, Site investigations, Slope stability
Minerals	Clay
Deposits	
Keywords	Burnie Formation(S), Cretaceous-Quaternary, Dam Site, Foundations, Material Properties, Permeability
Annotation	Subsurface investigations at the proposed Guide River dam site have shown that weathered basalt with some unweathered basalt overlies Precambrian mudstone and sandstone. Substantial leakage problems with pump testing suggest special measures will need to be taken to seal the dam. The rock types in the area show relatively high shear strength and although conditions are less than ideal, a dam could be safely built. A rock fill construction with a clay core would be most practical, however suitability of local materials should be further tested.
Report	81_1591
Date	1/05/1981
Authors(s)	Large, R.R.
Title	Progress Report - E.L. 24/73 Dial Range - 1980 Field Season
Company(s)	Duval Mining (Australia) Limited, Geopeko Limited
Tenement(s)	EL24/1973
Physical Description	1 volumes 18PP, 4 APPX, 7 FIG, 9 PLANS,
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	81154 Ulverstone
	29
Geographic	Dial Range, Revell Creek
Activities	Analysis, Diamond, Drilling, Geochemistry, Logs, Metallic minerals, Misc and Fuels, Petrology, Stream sediment
Minerals	Base Metals, Chalcocite, Copper, Pyrite, Tin
Deposits	Dial
Keywords	Dial Range Trough(S), Felsic Volcanics
Annotation	Diamond drilling on the Dial Mine grid intersected a sequence of calcareous and dolomitic sediments and breccias favourable for Sn mineralisation, but only minor Sn grades were encountered. Cu mineralisation was intersected in one drill hole grading 0.68% Cu over 20 m. The form of the Cu mineralisation suggests a sedimentary/diagenetic origin, while the Sn mineralisation in the sedimentary breccias is considered to be of hydrothermal replacement origin, possibly related to emplacement of Devonian granite at depth.
Report	81_1625
Date	1/11/1981
Authors(s)	Whitehead, C.H.
Title	Summary Report of Completed Work Programme Exploration Licence 17/68 and Consolidated Lease 105M/77 Period May 4th 1981 to November 3rd 1981.
Company(s)	McIntyre Mines (Australia) Proprietary Limited, Tasminex NL
Tenement(s)	105M/1977, EL17/1968
Physical Description	3 volumes 18PP, 2 ATTACHMENTS, 7 APPX, 8 PLANS,
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80152 Loongana
Geographic	Hampshire, St Valentines Peak
Activities	Analysis, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Mineral Process., Mineral/Gossan, Mining, Misc and Fuels, Ore Reserves, Petrology, Rock-chip, Soil (A,B,C horiz), Stream sediment, Surface mapping
Minerals	Cassiterite, Fluorine, Fluorite, Iron, Magnetite, Scheelite, Silver, Tin, Tungsten
Deposits	Hampshire, Kara
Keywords	Gordon Limestone(S), Housetop Granite(S), Skarn
Annotation	Exploration for scheelite bearing skarns is continuing in the outlying sections of the E.L.. A pre-development program has commenced, the first phase of which includes extensive infill diamond drilling and metallurgical studies aimed at increasing known reserves of recoverable scheelite at the main Kara tungsten bearing skarn zones.

Report	82_1794
Date	1/08/1982
Authors(s)	Whitehead, C.H.
Title	Exploration Licence 17/68 and Consolidated Lease 105M/77, Quarterly Report for the Period May 4th 1982 to August 3rd 1982
Company(s)	McIntyre Mines (Australia) Proprietary Limited, Tasminex NL
Tenement(s)	105M/1977, EL17/1968
Physical Description	1 volumes 5PP, 1 APPX, 1 PLAN,
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
	19
Map (50/100K)	80152 Loongana
Geographic	Emu River, Hampshire, Horizontal Creek, Loudwater Creek, St Valentines Peak
Activities	Analysis, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Metallic minerals, Stream sediment, Surface mapping
Minerals	Iron, Magnetite, Scheelite, Tungsten
Deposits	Kara
Keywords	Gordon Limestone(S), Housetop Granite(S), Skarn
Annotation	Engineering, production, economic and metallurgical studies are being completed. Infill and exploratory drilling to investigate possible mineralisation associated with suspected buried subsurface skarns is continuing. A ground magnetic survey indicated extensions of the Hampshire magnetite skarn in a northerly direction beneath shallow basalt cover.
Report	82_1820
Date	1/07/1982
Authors(s)	Ruxton, P.A.
Title	E.L. 8/77 - Riana, Progress Report on Exploration During the Period 1/8/81 to 1/7/82.
Company(s)	Commonwealth Aluminium Corporation Limited, The Shell Company of Australia Limited
Tenement(s)	EL8/1977
Physical Description	2 volumes 11PP, 9 APPX, 10 FIG, 34 PLANS,
Digital Media	
Other Ref.	08-1064
Map (250K)	SK55-5 QUEENSTOWN
Map (50/100K)	80151 Burnie, 80152 Loongana, 81153 Wilmot, 81154 Ulverstone
Geographic	Camena, Cuprona, Laurel Creek, Loyetea, Midgley's Falls, Natone, Penguin, Preston, Riana, Stotts Road
Activities	Air electromag, Air magnetic, Analysis, Diamond, Drilling, EIP/MIP, Geochemistry, Geology, Geophysics, Gnd electromag, Gnd magnetic, Logs, Metallic minerals, Misc and Fuels, Percussion, Petrology, Resistivity, SP/AP/EP, Soil (A,B,C horiz), Stream sediment, Surface mapping, Well-logging
Minerals	Cassiterite, Pyrite, Pyrrhotite, Tin, Tungsten
Deposits	Blythe R, Copper King, Cranes, Hoopers, Neptune, Rutherford
Keywords	Burnie Formation(S), Dolomite, Duricrust, Ferricrete, Gordon Limestone(S), Greisen, Housetop Granite(S), INPUT-EM, Max-Min-EM, Metasomatism, SIROTEM, Skarn, Ultramafics, VLF-EM
Annotation	Several aeromagnetic and aeroelectromagnetic anomalies will be followed up with ground magnetics and EM, soil geochemistry and IP surveys in the most favourable zones. Exploration will continue at Natone to define targets for Sn and W mineralisation north of the Housetop Granite
Report	82_1878
Date	1/09/1982
Authors(s)	Lawton, J.J.
Title	E.L. 4/77 - Highclere. Progress Report on Exploration During the Period March 1980 - August 1982.
Company(s)	Comalco Limited, The Shell Company of Australia Limited
Tenement(s)	EL4/1977
Physical Description	1 volumes 12PP, 2 APPX, 17 FIG, 11 PLANS,
Digital Media	
Other Ref.	08-1069
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80151 Burnie, 80152 Loongana, 80153 Waratah
Geographic	Guide River, Highclere, St Valentines Peak

Activities	Air electromag, Air magnetic, Air radiometric, Analysis, Diamond, Drilling, EIP/MIP, Geochemistry, Geology, Geophysics, Gnd electromag, Gnd magnetic, Logs, Metallic minerals, Misc and Fuels, Percussion, Petrology, Resistivity, Soil (A,B,C horiz), Surface mapping, Well-logging
Minerals	Iron, Magnetite, Pyrrhotite, Tin, Tungsten
Deposits	Buckby, Hampshire Iron
Keywords	Burnie Formation(S), Dundas Group(Sc), Gravity Modelling, Housetop Granite(S), Max-Min-EM, Replacement Mineralisation, Skarn, Tertiary Basalt, Ultramafics
Annotation	A summary of tin-tungsten exploration adjacent to the western margin of the Housetop Granite. It is considered unlikely that magnetite skarn of significant tonnage exists beneath Tertiary basalt cover on the western margin of the granite within the licence. An INPUT survey, aimed at locating conductive massive sulphide mineralisation has delineated ten anomalies which are currently being followed up.
Report	82_1828
Date	1/10/1982
Authors(s)	Whitehead, C.H.
Title	Summary Report of Completed Work Programme, E.L. 17/68 and C.L. 105M/77, Twelve Month Period, November 4th 1981-November 3rd 1982.
Company(s)	McIntyre Mines (Australia) Proprietary Limited, Tasminex NL
Tenement(s)	105M/1977, EL17/1968
Physical Description	19 volumes VOL 1 = 10PP, 1 PLAN; VOL 2 = 4PP, 1 PLAN;
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80152 Loongana
Geographic	Emu River, Hampshire, Limestone Creek, Old Park River, Valentines Creek
Activities	Analysis, Diamond, Drilling, Environment, Geochemistry, Geology, Geophysics, Gnd magnetic, Logs, Metallic al Process., Misc and Fuels, Ore Reserves, Petrology, Surface mapping, Water
Minerals	Iron, Magnetite, Scheelite, Tungsten
Deposits	Bobs Bonanza, Hampshire, Kara, Lohreys
Keywords	Felsic Volcanics, Gordon Limestone(S), Housetop Granite(S), Skarn
Annotation	Infill drilling at Kara North 266, Kara No. 1 south and Kara No. 1 main increased geological reserves of fresh and partially weathered ore with open pit mining potential. Exploration drilling over magnetic anomalies for suspected subsurface skarns is successful to date and is continuing. Further geological mapping, geochemistry, geophysics and drilling is recommended.
Report	83_2040
Date	1/09/1983
Authors(s)	Ruxton, P.A.
Title	E.L. 8/77 - Riana, Progress Report on Exploration During the Period 2/7/82 to 1/9/83.
Company(s)	Commonwealth Aluminium Corporation Limited, The Shell Company of Australia Limited
Tenement(s)	EL8/1977
Physical Description	2 volumes 9PP, 8 APPX, 2 TABLES, 11 FIG, 35 PLANS
Digital Media	
Other Ref.	8.2061
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80151 Burnie, 80152 Loongana, 81153 Wilmot, 81154 Ulverstone
Geographic	Castra Rivulet, Cuprona, Gunns Plains, Laurel Creek, Loyetea Peak, Midgleys Falls, Natone, Penguin, Riana
Activities	Air electromag, Air magnetic, Air radiometric, Analysis, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd electromag, Gnd magnetic, Gravity, Logs, Metallic minerals, Misc and Fuels, Percussion, Petrology, Resistivity, Rock-chip, Soil (A,B,C horiz), Surface mapping, Well-logging
Minerals	Base Metals, Gold, Iron, Magnetite, Pyrrhotite, Tin, Tungsten
Deposits	Natone
Keywords	Downhole IP-Resistivity, Gordon Limestone(S), Housetop Granite(S), INPUT-EM, Max-Min-EM, Oonah Formation(S), Skarn, VLF-EM
Annotation	Ground follow-up of eight aeromagnetic and four INPUT anomalies continued with gridding, ground magnetic and surface EM and IP techniques where warranted. Of particular interest are aeromag, INPUT and gravity anomalies in

close proximity to the centre of an Ordovician synclinorium which may contain Gordon Limestone beneath basalt cover. Drilling at Natone intersected skarn with low Sn, WO₃ and Au assays.

Report 83_2045
Date 1/09/1983
Authors(s) Buchhorn, I.J., Lawton, J.J., Oakes, G.F., Wright, R.G.
Title E.L. 36/79 - Loongana, Progress Report on Exploration for the Period 1st May, 1980-30th June, 1983.

Company(s) The Shell Company of Australia Limited
Tenement(s) EL36/1979
Physical Description 3 volumes 19PP, 7 APPX, 22 FIG, 59 PLANS,
Digital Media
Other Ref. 8.1266
Map (250K) SK55-3 BURNIE
Map (50/100K) 80152 Loongana, 80153 Waratah
Geographic Blythe River, Dempster Creek, Guildford, Loongana, Loongana Range, Tulip-Tree Creek

Activities Air electromag, Air magnetic, Analysis, Diamond, Drilling, EIP/MIP, Geochemistry, Geology, Geophysics, Gnd electromag, Gnd magnetic, Logs, Metallic minerals, Misc and Fuels, Petrology, Resistivity, Rock-chip, Soil (A,B,C horiz), Surface mapping, Well-logging

Minerals Base Metals, Cassiterite, Iron, Magnetite, Pyrite, Scheelite, Tin, Tungsten
Deposits Blythe R, Challenger Anomalies, Tulip Ck
Keywords Felsic Volcanics, Gordon Limestone(S), Husetop Granite(S), INPUT-EM, Max-Min-EM, Replacement Mineralisation, Skarn, VLF-EM

Annotation Follow-up of aeromagnetic and EM surveys failed to locate zones of economic interest. Further work is required to evaluate the potential of the challenger ii prospect.

Report 84_2085
Date 1/12/1983
Authors(s) Anon
Title Exploration Licence 23/79, Wynyard, Tasmania Annual Report for Year Ended 1st December, 1983

Company(s) Broken Hill Proprietary Company Limited
Tenement(s) EL23/1979
Physical Description 1 volumes 10PP, 6 APPX, 9 FIG, 2 TABLES,
Digital Media
Other Ref.
Map (250K) SK55-3 BURNIE
Map (50/100K) 80153 Waratah, 80154 Yolla, 80163 Wynyard
Geographic Calder, Cam River, Hellyer River, Wynyard
Activities Diamond, Drilling, Geochemistry, Geophysics, Logs, Metallic minerals, Misc and Fuels, Petrology, Physical properties, Rock-chip, Stream sediment

Minerals Tin
Deposits
Keywords Arthur Lineament, Burnie Formation(S), Parmeener Supergroup(S), Tertiary Basalt

Annotation Two targets, located from aeromagnetics, were drilled through the Tertiary sequence into basement but no anomalies were detected.

Report 84_2276
Date 1/10/1984
Authors(s) Oakes, G.F., Wright, R.G.
Title E.L. 4/77 - Highclere. Final Report on Exploration During the Period September, 1982 - May, 1984

Company(s) Billiton Australia, Comalco Limited, The Shell Company of Australia Limited
Tenement(s) EL4/1977
Physical Description 2 volumes VOL 1 = 22PP, 5 APPX, 1 FIG; VOL 2 = 36 PLANS
Digital Media
Other Ref. 8.2493
Map (250K) SK55-3 BURNIE
Map (50/100K) 80151 Burnie, 80152 Loongana, 80153 Waratah, 80154 Yolla
Geographic Hampshire, Highclere, Lake Kara, Ridgley, St Valentines Peak

Activities Air electromag, Air magnetic, Diamond, Drilling, EIP/MIP, Geochemistry, Geology, Geophysics, Gnd electromag, Gnd magnetic, Logs, Misc and Fuels, Percussion, Petrology, Resistivity, Soil (A,B,C horiz), Surface mapping

Minerals Iron, Magnetite, Tin, Tungsten

Deposits Buckby, Cranes, Highclere

Keywords Burnie Formation(S), Gordon Limestone(S), Greisen, Housetop Granite(S), INPUT-EM, Max-Min-EM, Metasomatism, Replacement Mineralisation, Skarn, VLF-EM

Annotation Follow-up of 10 INPUT anomalies showed that most are related to conductive layers within or at the base of a thick Tertiary basalt cover. The Highclere magnetite skarn and a carbonaceous shale also produced INPUT anomalies. The greisen tin potential of the Cranes Prospect - Lake Kara area is considered to be very limited. Relinquishment is recommended. Note: appx. 1 is a portion of Geoterrex report 83-548.

Report 84_2305

Date 1/12/1984

Authors(s) Whitehead, C.H.

Title Exploration Licence 17/68 and C.L. 105M/77 Completed Work Program and Exploration Expenditures Annual Report, Period November 4th 1983 - November 3rd 1984

Company(s) McIntyre Mines (Australia) Proprietary Limited, Tasminex NL

Tenement(s) 105M/1977, EL17/1968

Physical Description 1 volumes 5PP, 6 APPX, 3 PLANS,

Digital Media

Other Ref.

Map (250K) SK55-3 BURNIE

Map (50/100K) 80152 Loongana

Geographic Hampshire

Activities Analysis, Diamond, Drilling, Feasibility Study, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Mineral Process., Mining, Misc and Fuels, Ore Reserves, Surface mapping

Minerals Iron, Magnetite, Scheelite, Tungsten

Deposits Kara

Keywords Gordon Limestone(S), Housetop Granite(S), Replacement Mineralisation, Skarn

Annotation Work during the year consisted of surface exploration and diamond drilling activities in the outside sections of the E.L. and detailed investigations (mine planning, economic, etc) of the main Kara WO3 bearing skarns

Report 86_2539

Date 1/04/1986

Authors(s) Caithness, S.J.

Title Loongana EL 36/79, Report on Exploration for 12 Months to 1st April 1986.

Company(s) Billiton Australia, CRA Exploration Proprietary Limited, The Shell Company of Australia Limited

Tenement(s) EL36/1979

Physical Description 1 volumes 9PP, 4 APPX, 10 FIG,

Digital Media

Other Ref. 13863

Map (250K) SK55-3 BURNIE

Map (50/100K) 80152 Loongana

Geographic Loongana

Activities Diamond, Drilling, Geochemistry, Logs, Percussion, Stream sediment

Minerals Barite, Barium, Base Metals, Gold

Deposits Challenger Anomalies, Hellyer, Que R, Two Hummocks

Keywords Denison Group(S), Moina Sandstone(S), Mt Read Volcanics(S), Owen Conglomerate(S), UTEM

Annotation A regional drainage geochemical survey has been carried out over the EL. The survey was designed to look for fine gold as a primary target and as a path finder for volcanogenic massive sulphides. Two diamond drill holes were drilled on the Two Hummocks prospect in order to test a UTEM anomaly along strike of a barite occurrence. No mineralisation was intersected.

Report 88_2759

Date 1/11/1986

Authors(s) Whitehead, C.H.
Title Exploration Licence 17/68 Annual Report November 4th 1985 - November 3rd 1986

Company(s) Tasmania Mines Limited, Tasmania Mines NL
Tenement(s) EL17/1968
Physical Description 2 volumes A23PP, 11 APPX, 18 PLANS,
Digital Media
Other Ref.
Map (250K) SK55-3 BURNIE
Map (50/100K) 80152 Loongana
Geographic Hampshire
Activities Analysis, Bed-rock, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Indust. Minerals, Logs, Metallic minerals, Mineral Process., Mining, Misc and Fuels, Ore Reserves, Soil (A,B,C horiz), Stream sediment, Surface mapping

Minerals Iron, Magnetite, Scheelite, Tungsten, Wollastonite
Deposits Kara
Keywords Gordon Limestone(S), Replacement Mineralisation, Skarn
Annotation A summary of on-going exploration. A new area of tungsten mineralisation is identified along the eastern limb of the Kara synform. Open-cuttable scheelite reserves increased in the Kara South-Eastern Ridge areas.

Report 87_2660
Date 1/04/1987
Authors(s) Von Strokirch, T.
Title El 7/74 Moina Report on Areas Relinquished on 18 July, 1987.
Company(s) Billiton Australia, CRA Exploration Proprietary Limited, Comalco Limited, The Shell Company of Australia Limited
Tenement(s) EL7/1974
Physical Description 2 volumes 29PP, 5 APPX, 32 PLANS,
Digital Media
Other Ref. 14474,
Map (250K) SK55-3 BURNIE
Map (50/100K) 80152 Loongana
Geographic Bull Creek, Lorinna, Moina, Mt Jacob, Smiths Plains, Tin Spur
Activities Air magnetic, Analysis, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd electromag, Gnd magnetic, Metallic minerals, Misc and Fuels, Percussion, Petrology, Soil (A,B,C horiz), Stream sediment, Surface mapping

Minerals Base Metals, Gold, Tin
Deposits Tin Spur
Keywords Gordon Limestone(S), Mt Read Volcanics(Sc), Owen Conglomerate(S), UTEM
Annotation A number of stream sediment and aeromagnetic anomalies have been followed up in the search of skarn related deposits. No significant resources have been located on the ground and therefore some areas are relinquished

Report 88_2764
Date 1/11/1987
Authors(s) Whitehead, C.H.
Title Exploration Licence 17/68, Annual Report, November 4, 1986 - November 3, 1987

Company(s) Tasmania Mines Limited, Tasmania Mines NL
Tenement(s) EL17/1968
Physical Description 1 volumes 12PP, 15 APPX, 1 FIG, 6 PLANS,
Digital Media
Other Ref.
Map (250K) SK55-3 BURNIE
Map (50/100K) 80152 Loongana
Geographic Hampshire, Wollastonite Creek
Activities Analysis, Bed-rock, Diamond, Drilling, Geochemistry, Geology, Geophysics, Indust. Minerals, Metallic minerals, Mine/Deposit, Mineral Process., Misc and Fuels, Petrology, Rock-chip, Surface mapping

Minerals Gold, Iron, Magnetite, Scheelite, Tungsten, Wollastonite
Deposits Kara
Keywords Gordon Limestone(S), Replacement Mineralisation, Skarn

Annotation	A summary of ongoing exploration for tungsten and recent evaluation of gold potential on the licence. Wollastonite occurrences and beneficiation properties are investigated.
Report	89_3025
Date	1/09/1989
Authors(s)	Whitehead, C.H.
Title	Exploration Licence 17/68, Kara-Hampshire, N.W. Tasmania, Annual Report, 4th November, 1988 to 4 th November, 1989
Company(s)	Tasmania Mines Limited, Tasmania Mines NL
Tenement(s)	1371P/M, EL17/1968
Physical Description	1 volumes 7PP, 3 APPX, 5 PLANS,
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80152 Loongana
Geographic	Emu River, Hampshire
Activities	Analysis, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Logs, Metallic minerals, Percussion, Rock-chip, Surface mapping
Minerals	Gold, Iron, Magnetite, Scheelite, Silver, Tungsten, Wollastonite
Deposits	Hampshire Iron, Hampshire Silver, Kara
Keywords	Gordon Limestone(S), Replacement Mineralisation, Skarn
Annotation	A summary of on-going investigations into the magnetite, scheelite, wollastonite, silver and gold potential of the licence. Rock-chip sampling of skarns produced low tenor results for gold (up to 0.12 g/t) and silver (up to 21 g/t).
Report	90_3199
Date	1/10/1990
Authors(s)	Anon
Title	Parts A and B, Tasmania Mines Limited Retention Licence Application Exploration Licence 17/68
Company(s)	Tasmania Mines Limited, Tasmania Mines NL
Tenement(s)	EL17/1968
Physical Description	1 volumes 19PP, 2APPX, 1 FIG, 10 PLANS,
Digital Media	
Other Ref.	
Map (250K)	SK55-3 BURNIE
Map (50/100K)	80151 Burnie
Geographic	Hampshire, Loudwater Creek, Wollastonite Creek
Activities	Analysis, Auger/Test pits, Diamond, Drilling, Geochemistry, Geology, Geophysics, Gnd magnetic, Logs, Mine/Deposit, Mineral Process., Misc and Fuels, Ore Reserves, Percussion, Rock-chip, Surface mapping
Minerals	Magnetite, Scheelite, Wollastonite
Deposits	Hampshire, Kara
Keywords	Skarn
Annotation	The report provides a comprehensive account of work on the Hampshire magnetite skarn and on the thermal metamorphic wollastonite deposits at Wollastonite Creek. It also reviews the potential scheelite reserves within the RL application area and gives a commodity review of wollastonite.