



METALLICA MINERALS LIMITED

INVESTOR UPDATE

June 2016



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The **Cape York Bauxite (Bx) and Heavy Mineral Sands (HMS) Projects**, **Esmeralda Graphite and the SCONI Scandium-Cobalt-Nickel Project**, are at the exploration, advanced evaluation & feasibility stage & although reasonable care has been taken to ensure that the facts stated in this presentation are accurate & or that the opinions expressed are fair & reasonable, no reliance can be placed for any purpose whatsoever on the information contained in this document or on its completeness.

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Forward-looking statements are based on assumptions regarding Metallica Minerals Limited ("Metallica"), business strategies, plans and objectives of the Company for future operations and development and the environment in which the Metallica may operate.

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- The **Urquhart Bauxite Project** is at an advanced feasibility and development stage and reasonable care has been taken to ensure that the facts stated in this announcement are accurate and or that the opinions expressed are fair and reasonable. However, actual results may differ materially from those expressed or implied by these forward looking statements depending on a variety of factors.

Technical information contained in this report has been compiled by Metallica Minerals Non-Executive Director Mr Andrew Gillies B.Sc. & M. AUSIMM, who is a competent person & a member of the Australasian Institute of Mining & Metallurgy & have relevant experience to the mineralisation being reported on to qualify as Competent Persons as defined by the Australasian Code for Reporting of Minerals Resources & Reserves. Mr Gillies consents to the inclusion in this presentation of the matters based on the information in the form & context in which it appears.

***Exploration Target** - The potential quantity and grade of the bauxite deposits are conceptual in nature. There is insufficient information at this time to define a mineral resource and there is no certainty that further exploration will result in the determination of a mineral resource in these areas.

For further detailed information on the content of this presentation please also refer to the following ASX Releases dated: 24th May 2016, 29th April 2016, 28th April 2016, 27th April 2016, 7th April 2016, 10th December 2015, 16th November 2015, 25th June 2015, 11th May 2015, 2015 Cru International Limited.



Highlights

- Well funded through to grant of Urquhart Bauxite mining lease
- Successfully completed Renounceable Rights Issue raising ~\$1.8m¹
- Tight capital structure with no debt
- Monetising non-core assets—\$1.9 million² announced
 - Confirmed exercise of option to deliver a further \$900,000³
- Developing the Urquhart Direct Shipping Bauxite Project
 - Planning to commence production in early 2017 with minimal capex
 - Ramp up to 1.5 – 2mtpa to deliver sustainable free cash flow
 - Strong supply and demand fundamentals supporting development
- Heads of Agreement for access and logistics through Hey Point significantly de-risks Urquhart Bauxite delivering⁴:
 - Low capital start-up
 - Compressed start up schedule
- 91.5% graphite concentrate produced via conventional flotation tests that was upgraded to 97.8% following a single stage caustic bake purification⁵



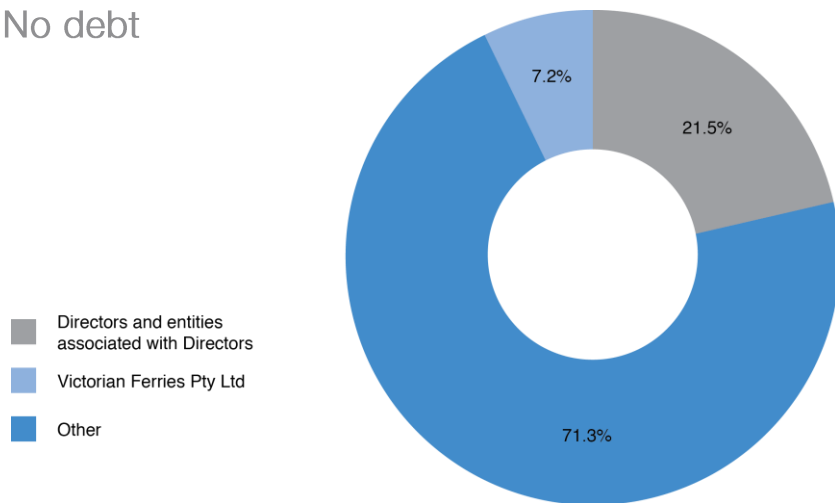
Corporate Snapshot

Capital Structure

Shares on issue	227.3m
Options on issue	38m
Share price (1 June 2016)	A\$0.03
Market capitalisation	A\$6.8m
Cash at 31 March 2015	A\$1.41m

(excluding shortfall placement and proceeds from Boyne sale)

No debt



Board and Management

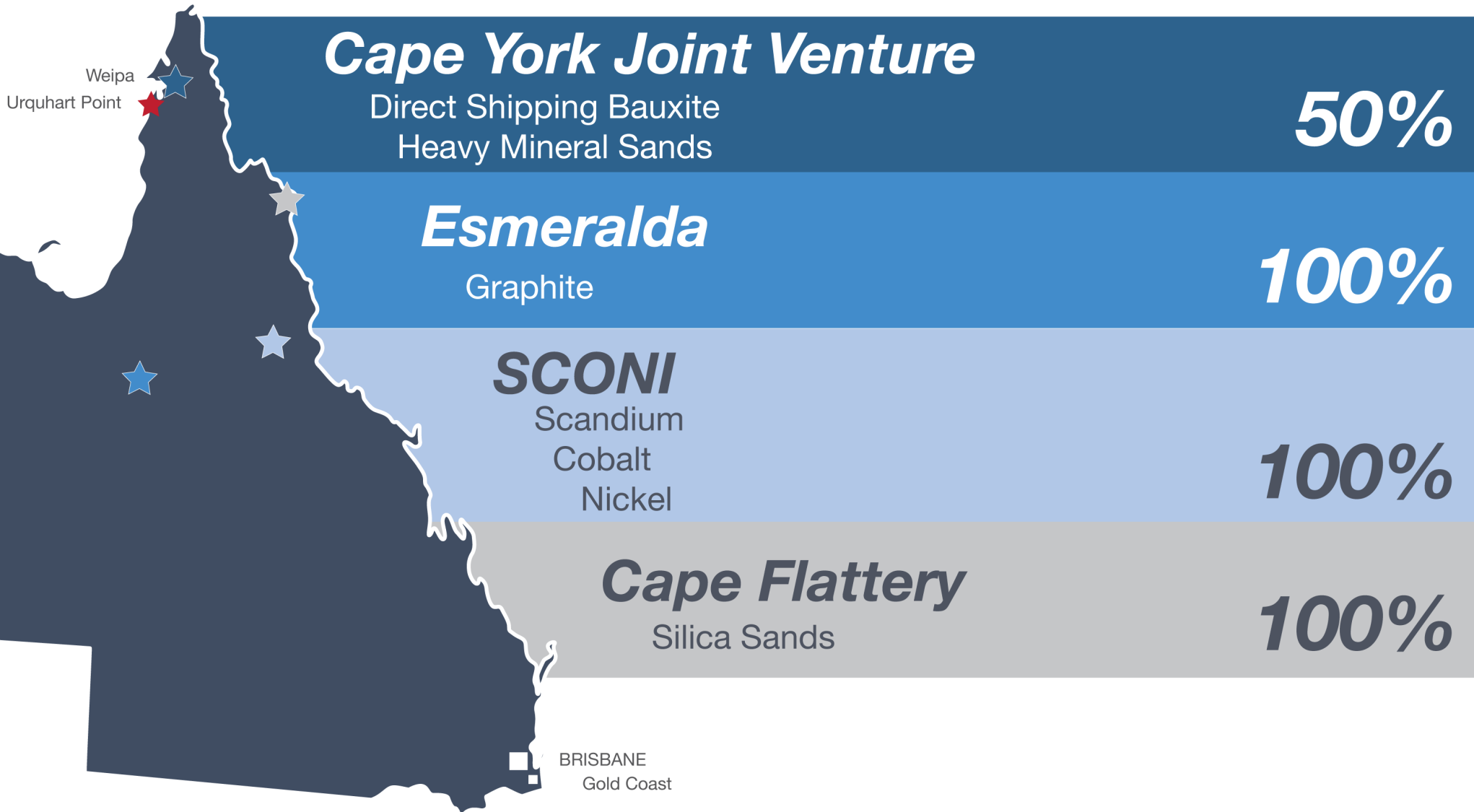
Barry Casson	Non-Executive Chairman
Simon Slesarewich	Chief Executive Officer
Andrew Gillies	Non-Executive Director
Shu Wu	Non-Executive Director
Shu Zhang	Alternate Non-Executive Director
John Haley	CFO Company Secretary



Metallica listed on the ASX in 2004 with 61.9m shares on issue and still holds a tight capital structure



Project Overview





Urquhart Bauxite Project

- # Urquhart HMS Project

- # Regional HMS & Bauxite Project

- Over 1,257 km² coastal tenements held which cover many HM sand and laterite bauxite targets
- Contains a large (42 Mt – 128 Mt) bauxite Exploration Target





Low Temperature Bauxite Is In Demand

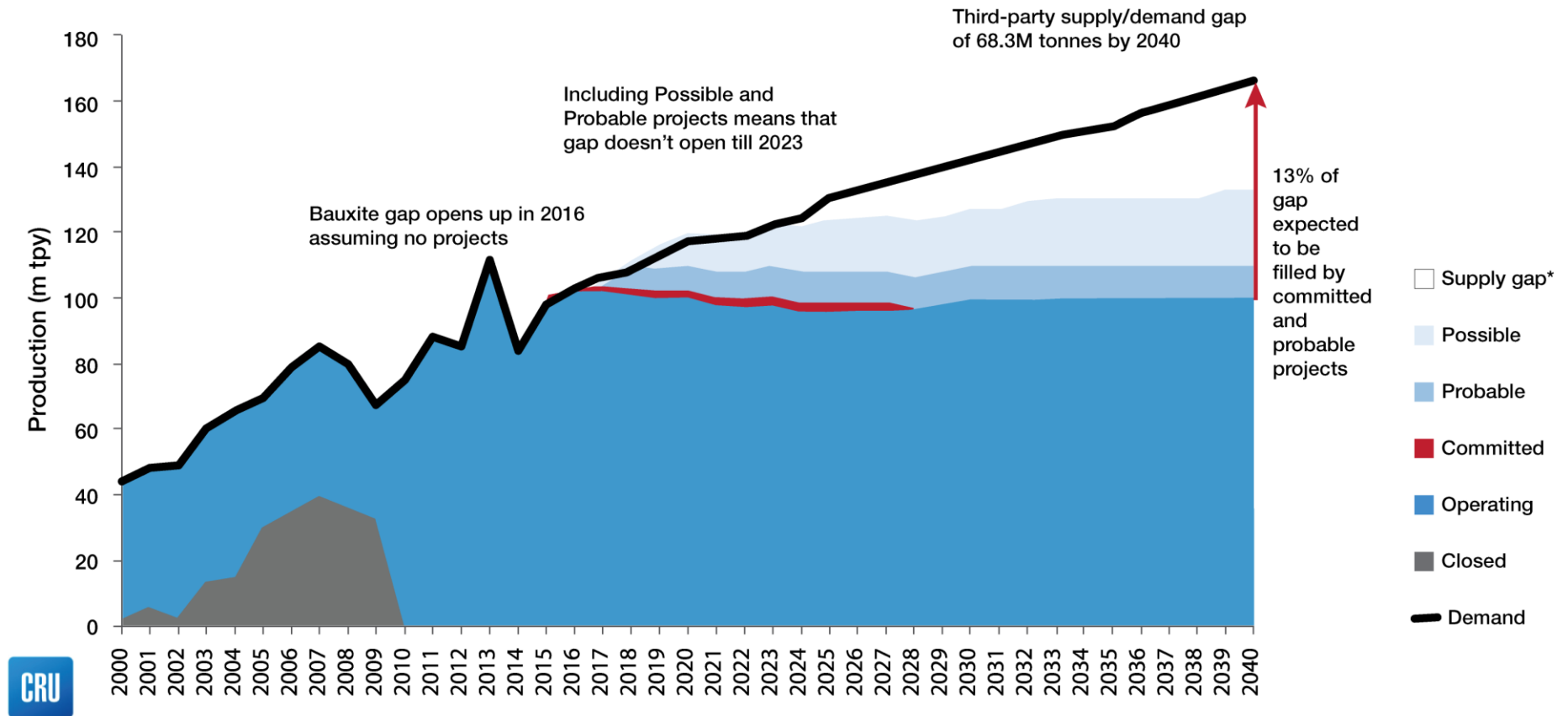
- Testing has confirmed low temperature bauxite production
- Production and export constraints:
 - Indonesian ban of raw exports removed ~40 Mtpa from the global bauxite market
 - Malaysia has extended a 3 month ban on exports to mid July
 - Some calls within India to reserve bauxite for domestic consumption
- Forecast 68 Mtpa shortfall in supply of low temperature bauxite by 2040¹
- Initial supply shortfall from 2016
- Low temperature bauxite market undersupplied in the medium to long term
- China's largest refineries are designed to accept low temperature bauxite but China predominantly produces high temperature bauxite
- Bauxite has decoupled from the alumina and aluminium pricing as new refining and smelting capacity is not integrated with dedicated mining operations
- In 2014–15, China imported only 39 Mt (nil from Indonesia), but needs more than 65 Mt of imported bauxite per year, rising even higher to more than 75 Mt in the next 5 years to feed its rapidly growing aluminium industry.



Imports into China

Strong growth in Chinese third party bauxite demand to result in a supply-demand gap opening after 2016

World third party bauxite balance, 2000-2040



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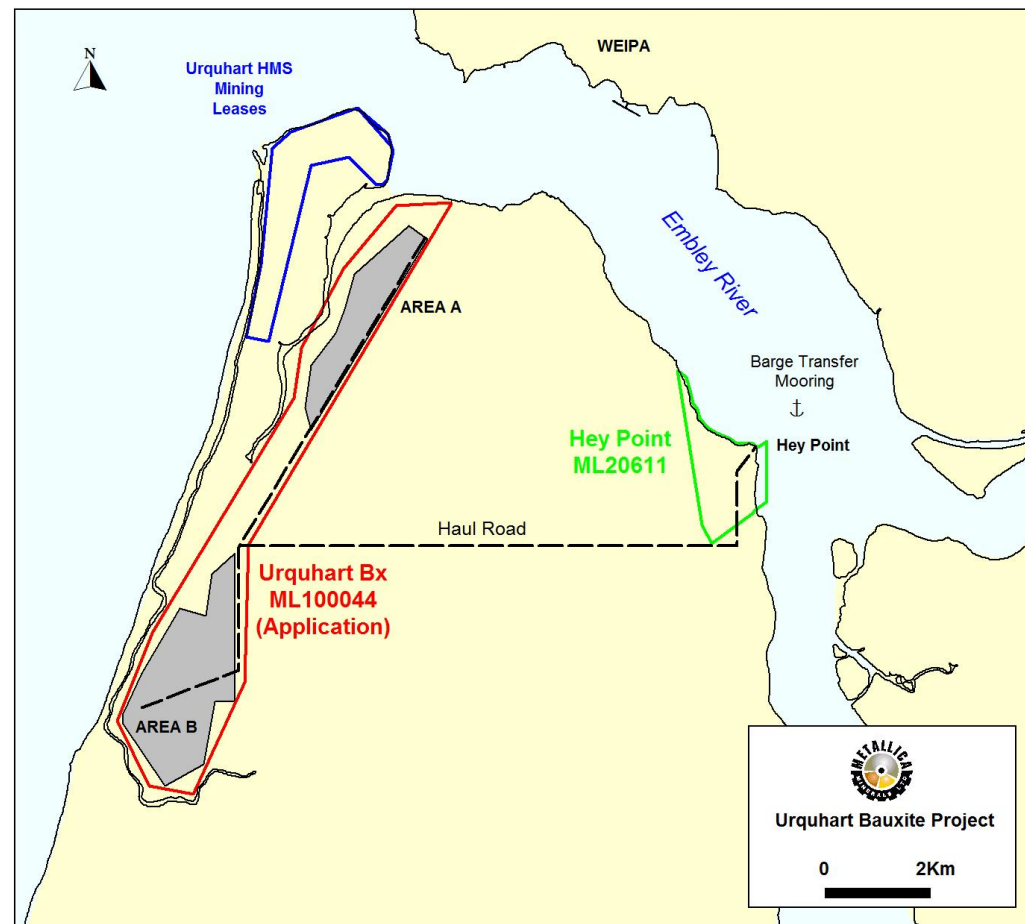
Many new sources of supply are needed!



Urquhart Bauxite Project

Why do we like Urquhart Bauxite?

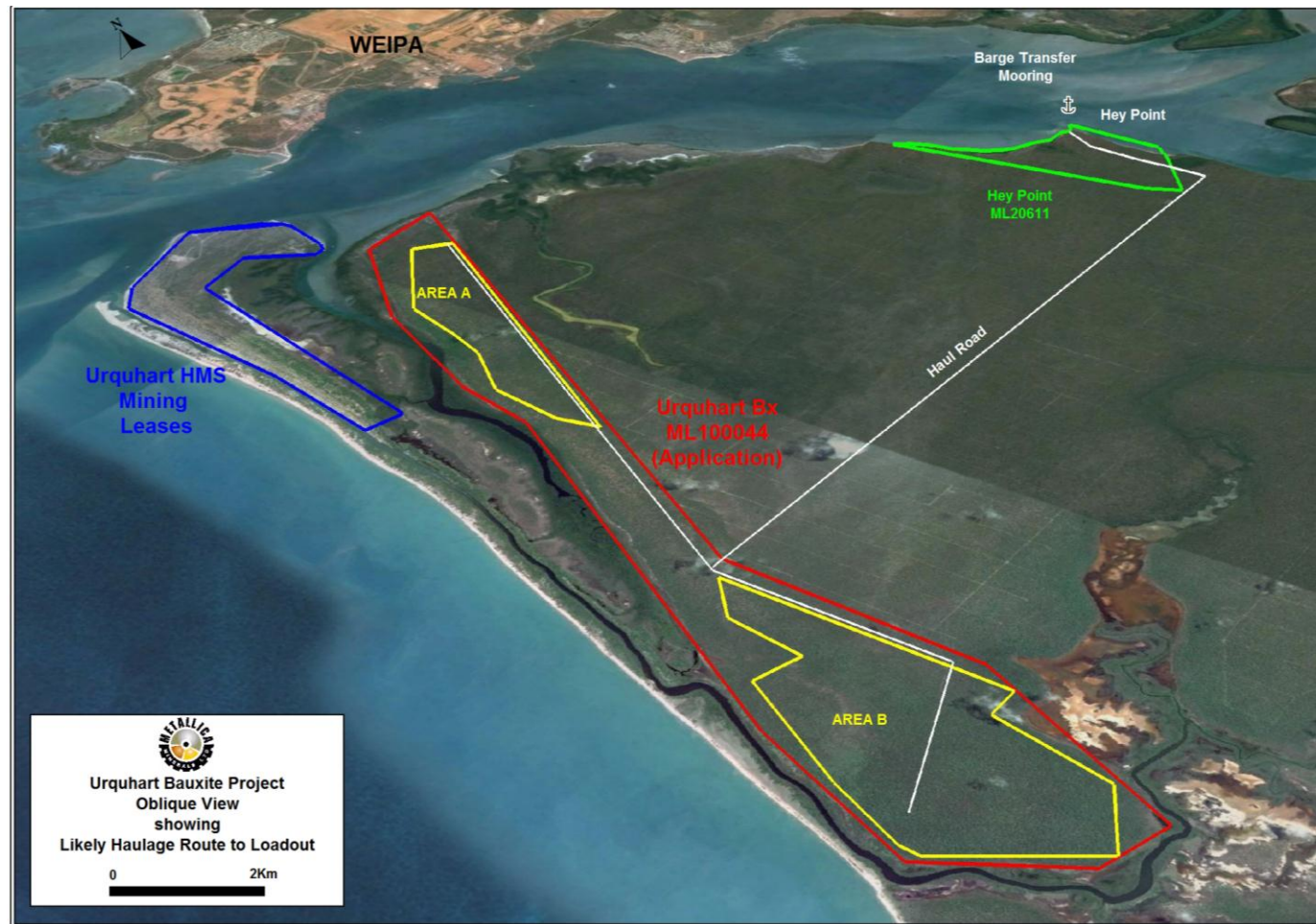
- Defined path to production in H1 2017
- Simple 1.5 – 2 Mtpa development
- Positive in-house scoping study
- Modest capex and simple development scenario
- Ideally located near deep water
- Executed Heads of agreement for logistics and access to Hey Point
- Well-known and accepted low temperature bauxite product
- Strong supply and demand fundamentals
 - Indonesia ban
 - Malaysian ban extended
 - Calls for Indian production to be reserved for domestic use
- Proven ability to secure approvals via Urquhart Point HMS mining lease





Ideal Logistics

- Bulk commodities is all about logistics
- Successfully completed an in house options study on logistics and load out options
- Derisked logistics via execution of a Heads of Agreement to utilise infrastructure and access at Hey Point
 - Low capex
 - Compressed start-up





Logistics Advantage

Guinea to remain the marginal supplier as it is located some distance from China, the largest buyer of third party bauxite

China's favoured regions for third party bauxite supply

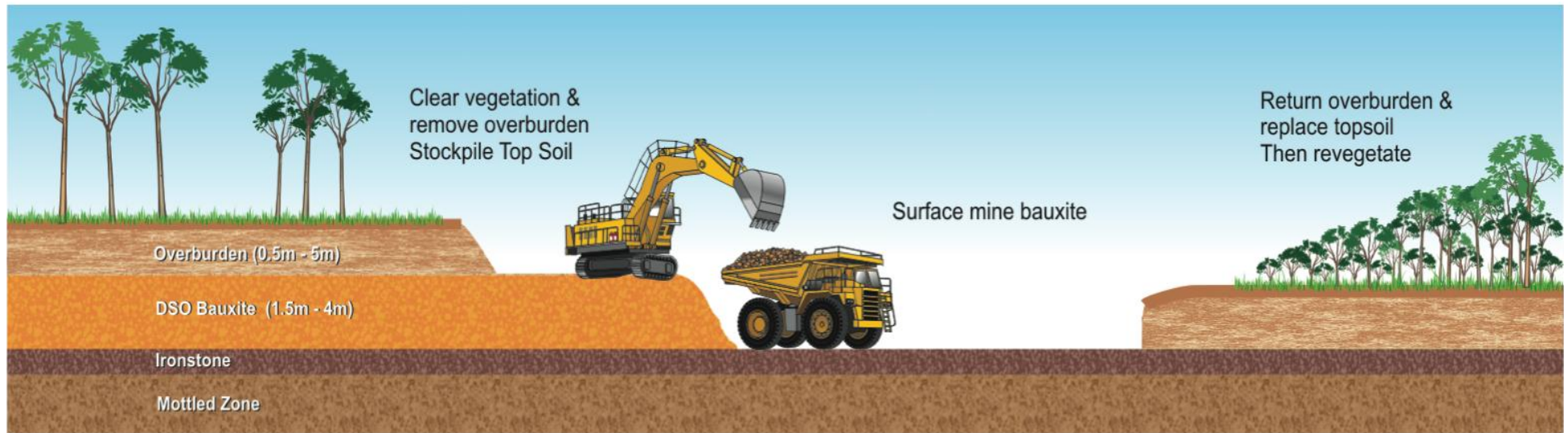


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- LEGEND**
- Completed Aircore drilling (Nov. 2014)
 - Completed hand auger drilling (2014)
 - Interpreted DS bauxite
 - Tracks
- MINERALISATION**
- 3m @ 53.8 / 12.8
Interval (m) @ Al₂O₃ % / SiO₂ %
 - 3m @ 43.1 / 4.3
Interval (m) @ Avl. Al/RxSi
- NMR** No Material DSB Result
- AREA A**
- EDGE OF BAUXITE EXTENT**
- EPM 15268**
- ML 7024**
- Bauxite Plateau**
- Urquart Point Bauxite Project
"Area A" Drilling
Direct Shipping (DS) Bauxite
Mineralisation**
- 0 500m

Simple Development



- Simple 1.5–2.0 Mtpa mine-truck-barge-ship operation
- Proximity to the established mining town of Weipa
- Expected low operating costs coupled with low capital requirements
- Ability to lock in costs near the bottom of the cycle
- Utilise contractors to reduce capital requirements





Example of barge transshipment



Urquhart Bauxite Development Timeline

	2015			2016				2017			
	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Submit Mining Lease Application	Completed	Completed									
Landowner exploration agreement		Completed									
Preliminary exploration Drilling (Inferred)	Completed	Completed									
Resource Drilling					To be Completed	To be Completed					
Market testing and Studies						To be Completed					
Updated JORC Report						To be Completed	To be Completed				
Wet/Dry Ecological reports			Completed	Completed							
Hydrology Reporting				Completed	To be Completed	To be Completed					
EA approval pathway (site specific application)				Completed	To be Completed	To be Completed					
Submit EA						To be Completed					
Issue draft EA to Mining Register and DNRM						To be Completed					
Develop TLO compensation agreements				Completed	To be Completed	To be Completed					
Combined Department Decision							To be Completed				
Mining Lease Granted							To be Completed				
Procurement and Contracting				Completed	To be Completed	To be Completed	To be Completed	To be Completed			
Pre civil works and site clearance								To be Completed			
Mining and shipping commence								To be Completed	★		

 Completed
 To be Completed



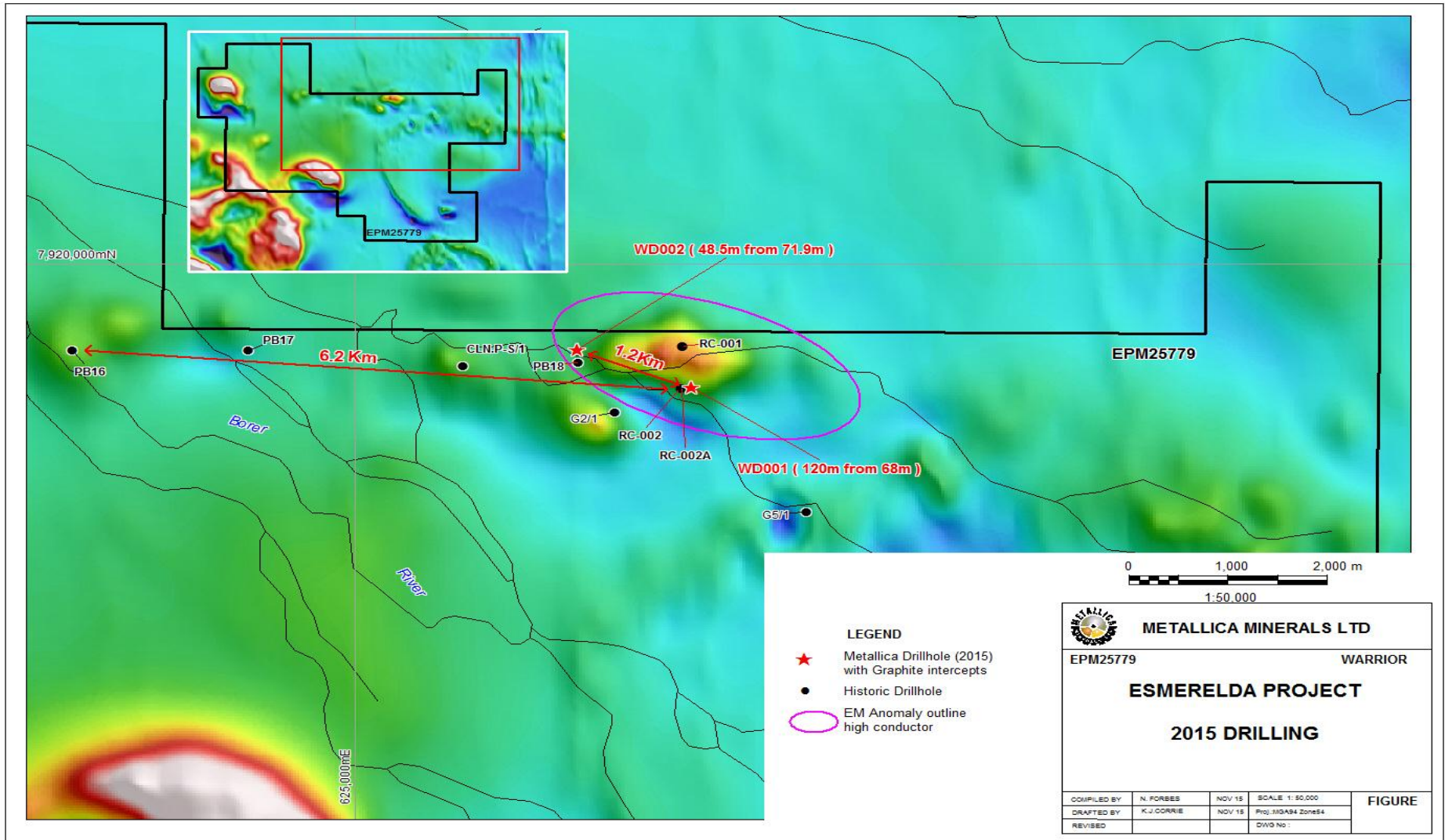
Esmeralda Graphite

- Spectacular¹ high grade graphite intersections at the 100% owned Esmeralda Project
 - WD001 – 95 m @ 6.5% Cg² from 71m
 - WD002 – 29.1 m @ 7.8%¹Cg² from 71.9m, including 7.1 m @ 12.9% Cg
- 91.5% graphite concentrate produced with a 91% recovery via conventional flotation tests
- Upgrade of concentrate to 97.8% via single stage caustic bake
- Petrology confirms the same mineralisation style hosted within hydrothermally altered granite is present in both holes which are 1.2km apart





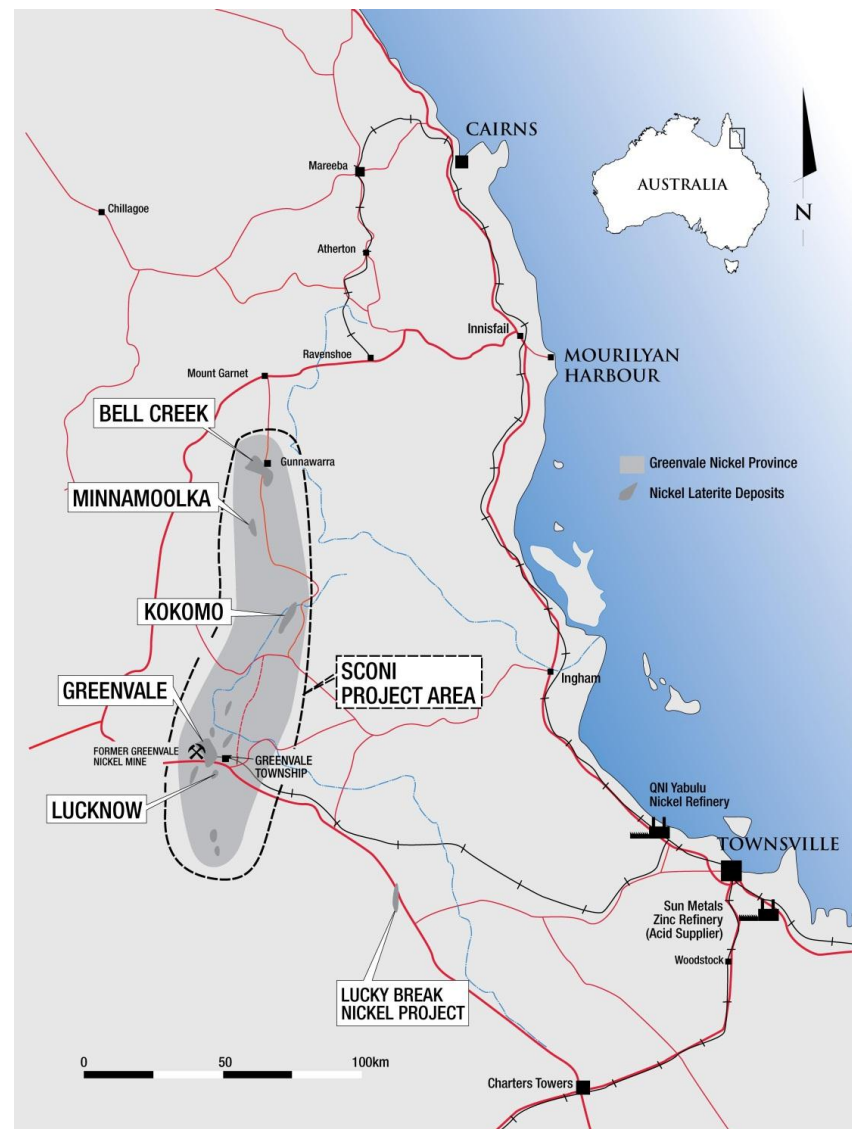
Esmeralda Graphite





SCONI Nickel-Cobalt-Scandium Project -100% MLM

- Over \$10 million already spent
- Ideal location – historical Greenvale nickel mine
- Established JORC Resources
- Close proximity to industrial services Townsville and Mourilyan Ports
- Good metallurgical ore types
- Metallica-owned Scandium IP recovery and purification technology
- Low environmental impact and strong community support
- Currently in negotiations for a JV or sale





Catalysts

- ✓ Execute Heads of Agreement for preferred logistics solution at Hey Point
- ✓ Exercise of Boyne limestone option to deliver \$900,000
- ✓ Metallurgical test results from Esmeralda
- Upgrade Resource category and studies for Urquhart bauxite
- Grant of Urquhart bauxite mining lease
- Production from Urquhart bauxite
- Continued disposal or jv of non-core assets
- Strong pipeline of new opportunities



SUBSIDIARY COMPANIES

NORNICO Pty Ltd ACN 065 384 045

Oresome Australia Pty Ltd ACN 071 762 484

Oresome Bauxite Pty Ltd ACN 606 362 252

Lucky Break Operations Pty Ltd ACN 126 272 580

Phoenix Lime Pty Ltd ACN 096 355 761

Greenvale Operations Pty Ltd ACN 139 136 708

Scandium Pty Ltd ACN 138 608 894

Touchstone Resources Pty Ltd ACN 126 306 018

THANK YOU