

ASX ANNOUNCEMENT

29 June 2022 ASX Code: **MYL**

BOARD OF DIRECTORS

Mr Jeff Moore Non-Executive Chairman

Mr John Lamb Managing Director

Mr Rowan Caren Executive Director

Mr Paul Arndt Non-Executive Director

ISSUED CAPITAL

Shares 190 m.
Performance Rights 5 m.
Unlisted Options 1 m.

Mallee Resources Limited

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ABN: 48 124 943 728

Managing Director Presentation to EGM

The following Presentation is to be delivered to shareholders at today's EGM by the Managing Director, Mr John Lamb.

Authorised for release to the ASX by



Rowan Caren

Executive Director and Company Secretary

About Mallee Resources Limited

Mallee Resources Limited (ASX: MYL) is an explorer and mine developer listed on the Australian Securities Exchange. MYL aims to become a leading regional base metals producer. The Company is seeking to acquire 100% of the Avebury Nickel Project in Tasmania pursuant to the terms of a Deed of Company Arrangement.

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REFERENCES TO MINERAL RESOURCES 2022

The Mineral Resource estimate including JORC Table 1, sections 1, 2 and 3 and the competent persons statement has been previously reported by the Company in accordance with the 2012 Edition of the 'Australasian Code for Reporting of Exploration results, Mineral Resources and Ore Reserves' (JORC Code) on 8 April 2022 and is publicly available at https://bit.ly/3jifzlM. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcement and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed.

PROSPECTUS

The Company is in the process of preparing a prospectus (Prospectus) for the offer of fully paid ordinary shares in the capital raising contemplated by the Presentation Materials. A copy of the Prospectus is anticipated to be available by June 2022 and will be available on the Company's website at https://malleeresources.com.au/. All offers of Shares for the capital raising referred to in the Presentation Materials will be made in, or accompanied by, the Prospectus. Investors should consider the Prospectus in deciding whether to acquire Shares and any person who wishes to apply for Shares must complete the application form that will be in or will accompany the Prospectus.



Australia's next nickel sulphide producer

Class-1 nickel in tier one location

- Substantial nickel sulphide Mineral Resources of 29.3 Mt at 0.9% Ni (264 Kt contained Ni) (JORC 2012)¹
- Tasmania is an excellent mining jurisdiction
- Readily available, skilled local workforce

Short term production potential

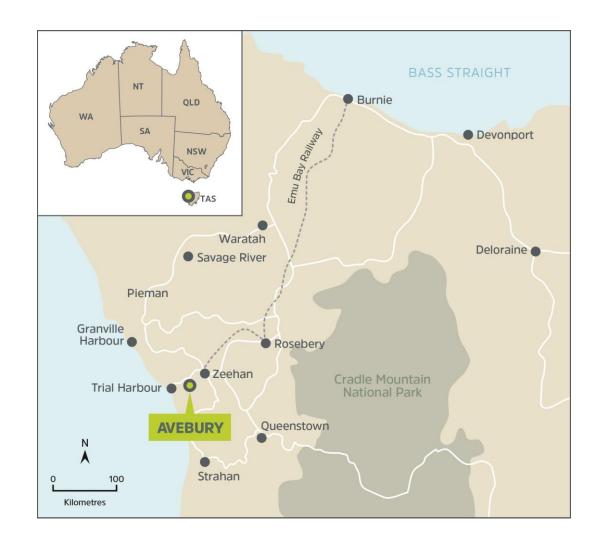
- Mining operations have commenced at Avebury
- Underground mine and processing plant are in excellent condition and allow for a short term re-start to production

Experienced executive team

- Track record in base, battery and precious metals
- Demonstrated ability to deal with complexity and challenges

Positioned for a low carbon future

- MYL is aligned with the ICMM Mining Principles and has adopted the Global Reporting Initiative framework (GRI)
- Tasmanian grid power is 100% renewable²



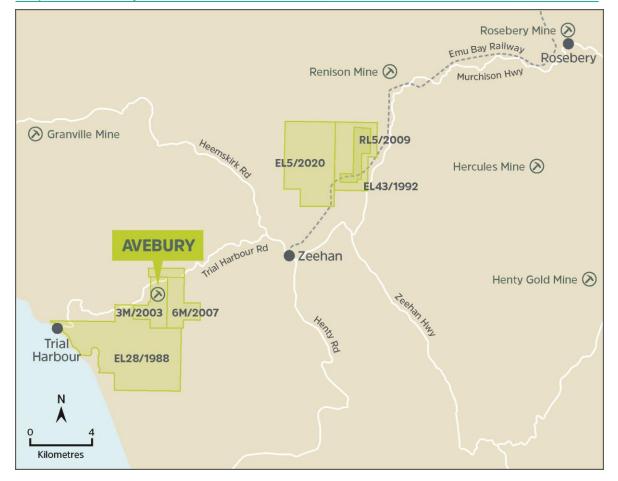


^{1.} See page 2 on references to Mineral Resources

Compelling acquisition of a highly prized asset

Acquisition	 MYL acquires 100% of the shares of Allegiance via a deed of company administration (DOCA) The DOCA extinguishes creditor claims and terminates non-governmental royalty agreements 				
Consideration	 \$85.9 m. in cash and shares ~\$23.2 m. reimbursement of expenses incurred during the DOCA terms ~\$5.6 m. of fees payable to the receivers, legal fees and accrued interest 				
Outstanding Approvals	 MYL shareholder approval (29 June) 				
Agreements with Hartree	 Life of mine offtake agreement Loan agreement Hedging agreement Security documentation 				
Hartree Metals LLC (Hartree)	 Secured creditor of Allegiance Mining Pty Ltd (Allegiance) and co-proponent of the DOCA for Allegiance Hartree is a metal trader and is part of Hartree Partners, a global energy and commodities firm Funds managed by Oaktree Capital Management are the majority shareholder of Hartree Partners 				

Map of Avebury Tenements

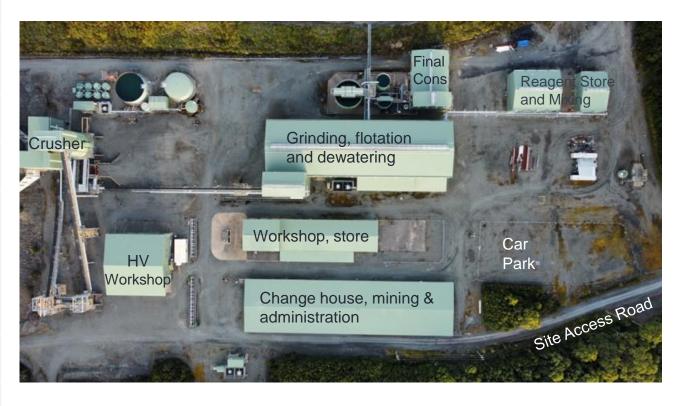




Avebury assets to be acquired by MYL

Avebury processing facilities and infrastructure

Project Interest	1 00%					
Licences	 3 Mining Licences 2 Exploration Licences 1 Retention Licence					
Project Location	 8km west of the town of Zeehan on Tasmania's western coast within a known mining district 					
Mineral Resources	 29.3 Mt at 0.9% Nickel for 264 Kt contained nickel (JORC 2012)¹ 					
Project Status	 Avebury plant and infrastructure established around 2007 Avebury plant produced for 9 months from 2008 and has been on care and maintenance since 2009 Plant and site infrastructure remains in excellent condition 					
Mine and Plant	8,500 m of underground development900 ktpa processing plant					
Infrastructure	 Access to mine site is via a high quality, purpose-built bitumen road Emu Bay Railway is in close proximity to Avebury² Export facility at the Port of Burnie can be efficiently accessed by road or rail 					

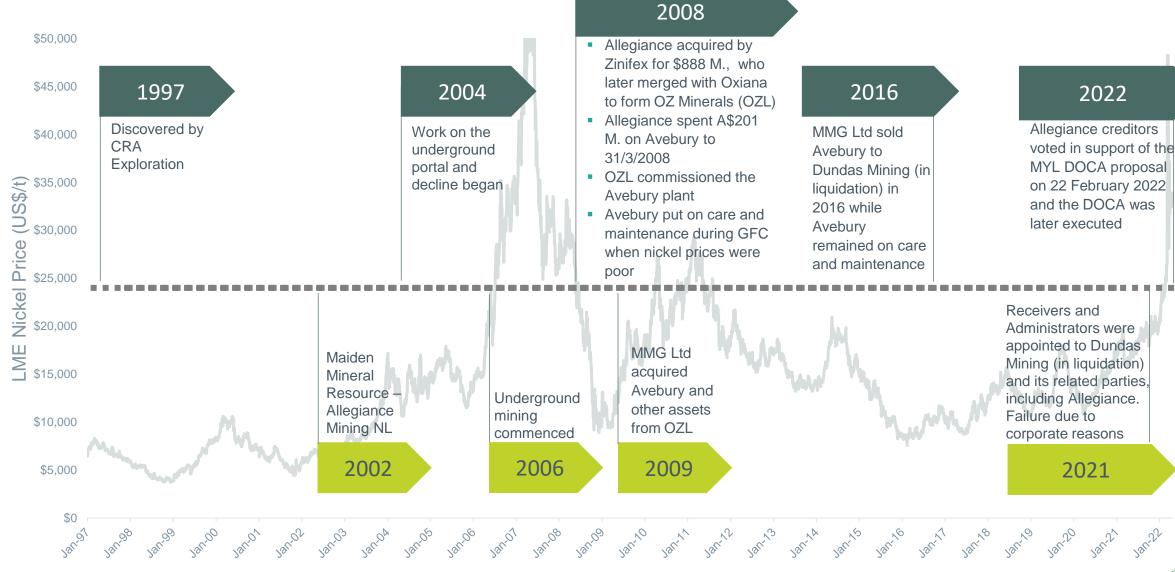


Notes:

- See page 2 on references to Mineral Resources
- A rail logistics study has not been completed to date. Upgrades to existing TasRail railway lines or infrastructure may be required.



History of Avebury



Why did production at Avebury cease?

- Avebury was commissioned in 2008 in the global financial crisis. Nickel prices fell 68% during commissioning, below US\$10,000 / t
- OZL announced major cuts to the capital and operating budgets of its mines including Avebury and had difficulty in re-financing its debt facilities
- Less capital equipment and financial resources were available to facilitate the commissioning which allowed no tolerance for commissioning challenges, including the management of arsenic in the Avebury ores. This was further compounded by an offtake agreement which did not allow for the sale of concentrates outside of China, a country which has strict arsenic importation limits
- In December 2008, after producing 10kt of nickel concentrate,
 OZL announced that the Avebury operation was not profitable
 and that it would be placed on care and maintenance

2008 LME Spot Nickel Price



- 1 Avebury plant commissioning commences
- 2 First concentrate produced
- 3 OZL suspended pending re-finance of debt
- 4 Avebury placed on care and maintenance



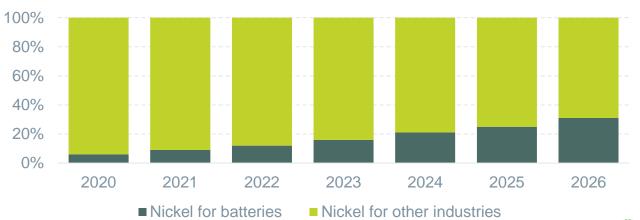
A favourable landscape for a re-start of Avebury

- Favourable nickel pricing environment. Spot LME nickel prices and futures contracts are supportive
- Robust demand outlook. Demand for nickel in battery technologies provides a robust outlook:
 - ~20 million passenger EV sales in 2025 is expected to grow to over 70 million by 2040¹
 - High nickel content batteries are the key to longer range, more efficient EV's
 - Downstream users are seeking responsibly sourced
 Class-1 nickel
- Short path to re-start. The care and maintenance program has kept the mine and processing plant in good condition allowing for a start to mining operations. Processing operations will commence once sufficient ore stockpiles are available on the ROM pad

Global Nickel Supply Capacity & Demand 2



Forecast Global Use For Nickel By End-Use Industry 2



Notes:

Wood Mackenzie

^{2.} Rystad Energy Battery Metals Cube, Rystad Energy research and analytics

An enviable ESG proposition



Environmental

- Renewable grid power. A rare opportunity to decarbonise a mining operation
- Small disturbance footprint. Key mine infrastructure is established and permitted
- Tailings storage facility permitted. Future tailings to be backfilled into underground mine
- Mine has a waste rock deficit. No surface waste landforms will be created
- Improving water quality. Positive site water balance. Avebury wetlands enhancing water quality
- Conservation plans in place to protect local fauna



Social

- Zero LTI within the past 24 months
- Safety conscious culture with implementation of workplace management procedures
- Local workforce. New jobs start with locals
- No native title disputes
- Strong Tasmanian Government support

MINING WITH PRINCIPLES

Governance

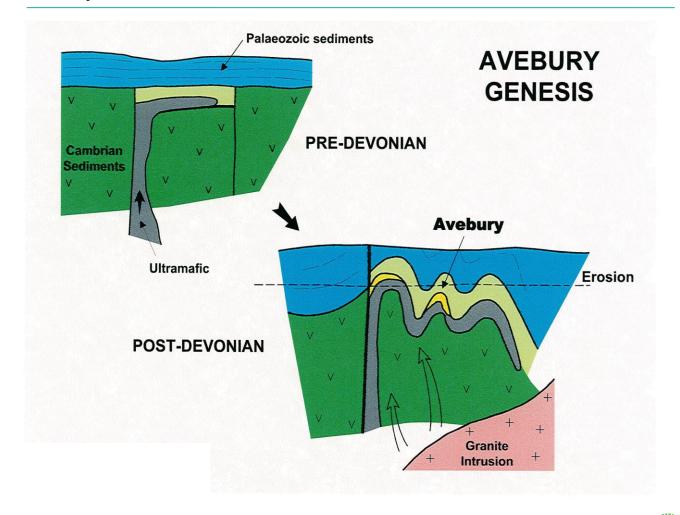
- Aligned with International Council on Mining & Metals (ICMM) Mining Principles
- Global Reporting Initiative (GRI) reporting framework
- ASX Corporate Governance Principles and Recommendations



Geology of Avebury

- Deposit is hosted in an ultramafic body located within a sedimentary sequence comprising volcaniclastic turbidites
- Mineralisation consists of veins and coarsegrained disseminations of sulphides that can be hosted by both serpentinised ultramafic rocks and skarn-altered rocks
- Grades of mineralised serpentinite and skarn range from 0.4% to 4% Ni, with an average of about 0.9% Ni at a cut-off grade of 0.4% Ni
- Mineralised zones in the ultramafic body vary in true width from 4 – 40m and average around 10 metres
- Mineralised lenses range from 50 to 600 metres in length and can extend over 400m down dip

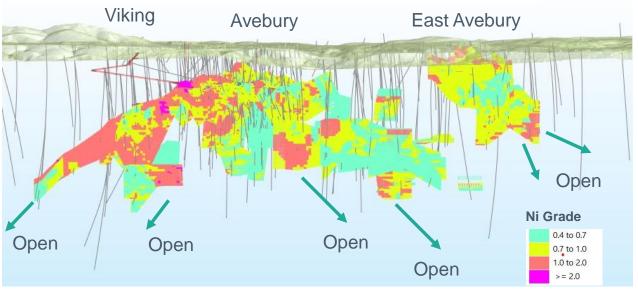
Avebury Genesis Model¹

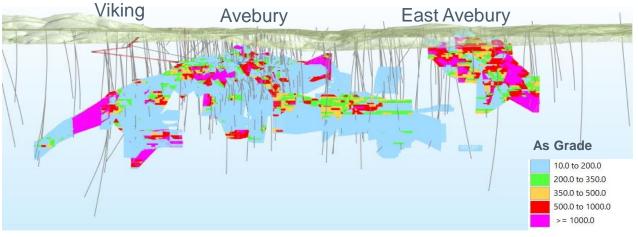


Enhanced understanding of Avebury

- An ore genesis model developed using all the drilling data, including data acquired post Avebury being placed on care and maintenance, supports the view that Arsenic (As) is within discrete zones within the ore body
- MYL's solutions to managing arsenic
 - Hartree offtake agreement allows for sales of nickel concentrate outside of China, where higher thresholds are permitted
 - Greater flexibility on concentrate grade allowing control of As content in product
 - Better understanding of As distribution in ore body allows for As management in the mine schedule
 - Blending of run-of-mine ore to optimise As grade
 - Blending of concentrate to optimise As grade
- None of these solutions were effectively implemented by the prior operator of Avebury due to a lack of financial resources and no contractual flexibility

Long Sections of Avebury Block Model for Nickel (Upper) and Arsenic (Lower)





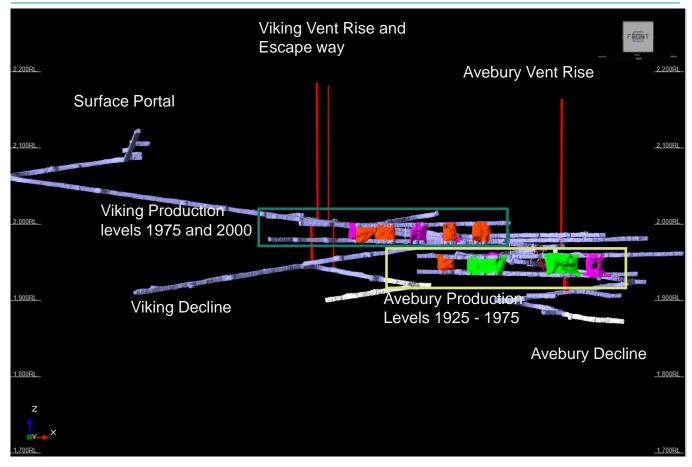


Advanced underground mine

The Avebury underground is an established, modern underground mine with 8.5 km of underground development, two vent rises, an escape way and underground mine infrastructure Advantages of Avebury:

- The ore body is close to surface
- Simple longitudal and transverse stoping mining method will be utilised
- There is a relatively high proportion of stope ore to development ore
- Waste development has been completed well in advance of that needed for mine production (future production flexibility for blending)
- The three Avebury lodes are accessible from the existing decline and underground development, resulting in excellent mine working area flexibility

Avebury Underground Mine





Established mine infrastructure



Underground Water Pumping Station



Avebury No.2 Vent Rise



Underground Electrical Substation

Modern processing infrastructure

- Avebury's processing infrastructure is in very good condition with most of the processing equipment housed in sheds to prevent weathering
- Nameplate processing capacity of 900,000 tonnes of ore per annum, with potential for greater throughput identified¹
- Designed to recover 79% of the nickel in ore to a nickel concentrate, with a nickel grade around 20%. Potential for enhanced metallurgical recovery identified¹
- Site also includes stores, workshops, an administration building, land holdings and accommodation facilities
- Tailings storage facility is fully permitted and retains storage capacity

Grinding and Flotation Circuits



Crusher House and Fine Ore Bin

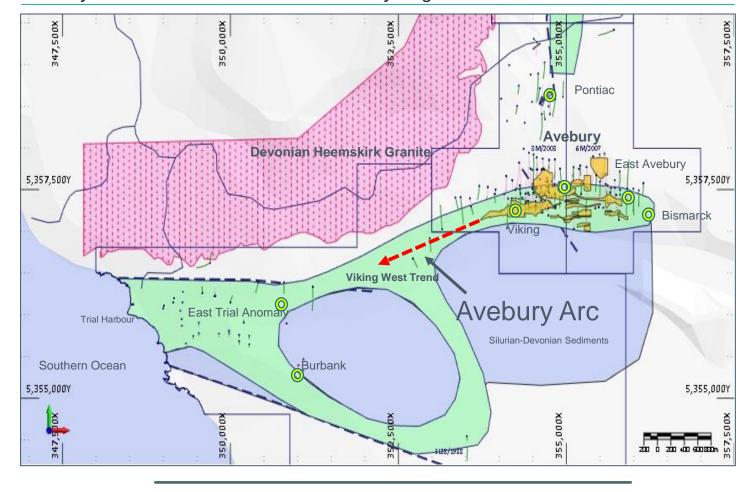




Only 12% of the Avebury Arc has been tested¹

- There remains excellent potential for further Avebury-style deposits along the Avebury Arc (ultramafic host rock) as:
 - The Avebury region is underexplored
 - There is extensive source host rock
 - Nickel sulphide formation was due to serpentinization. Over 1km³ of serpentinite is estimated to be hosted in the Avebury region²
 - Magmatic olivine

Avebury Ultramafic Host Rock in the Avebury Region



7 km

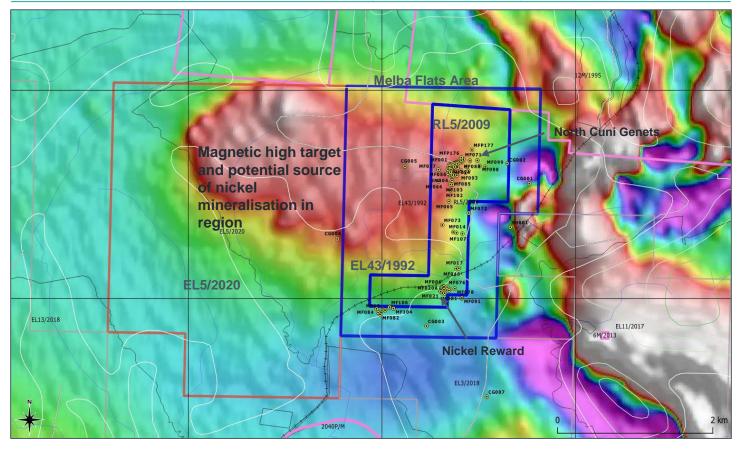


Zinifex Limited (2008). No material exploration has been undertaken along the Avebury Arc since 2008

Outstanding exploration potential

- Melba Flats hosts high-grade Ni-Cu-Co-PGE mineralisation close to surface. Testing of mineralisation at depth is limited
- Melba Flats mineralisation is hosted in gabbro dykes and bears similar characteristics to large magmatic deposits such as Voisey's Bay
- Tenements include a significant aeromagnetic anomaly which could represent a maficultramafic complex, the ultimate source of the nickel sulphides discovered at Melba Flats
- Exploration priorities:
 - Convert Avebury Inferred Resources into Indicated Resources
 - Extend resources at Avebury focusing on East Avebury and North Avebury (Pontiac)
 - Drill test the Melba Flats and Trial Harbour licences

Avebury Tenements on Airborne Electromagnetic Survey Image

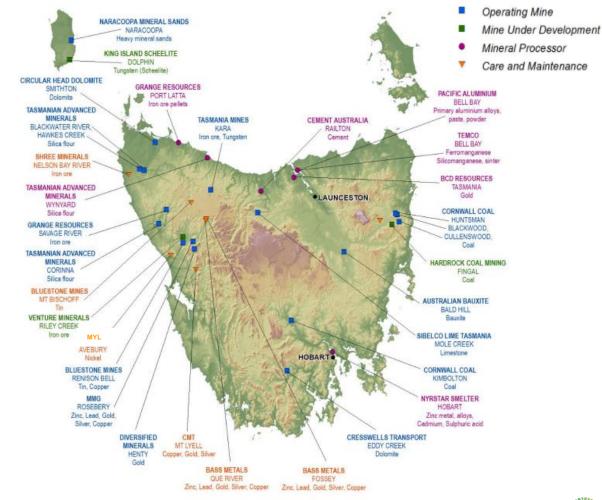




Tasmania – a world class mining district

- One of the most highly mineralised regions in the world, with an extensive range of mineral deposits
- The mining and minerals processing sector is a key pillar of economic growth in Tasmania and the sector employs around 5,200 people²
- The majority of the state's mining operations are located in close proximity to Avebury in Western Tasmania. This includes the Rosebery (zinc, lead, gold, copper and silver), Renison Bell (tin) and Savage River (iron one) mines
- \$2.8 billion worth of minerals were mined and processed in Tasmania in FY21 with \$2.3 billion of mineral products being exported. This accounted for 61% of Tasmania's exports

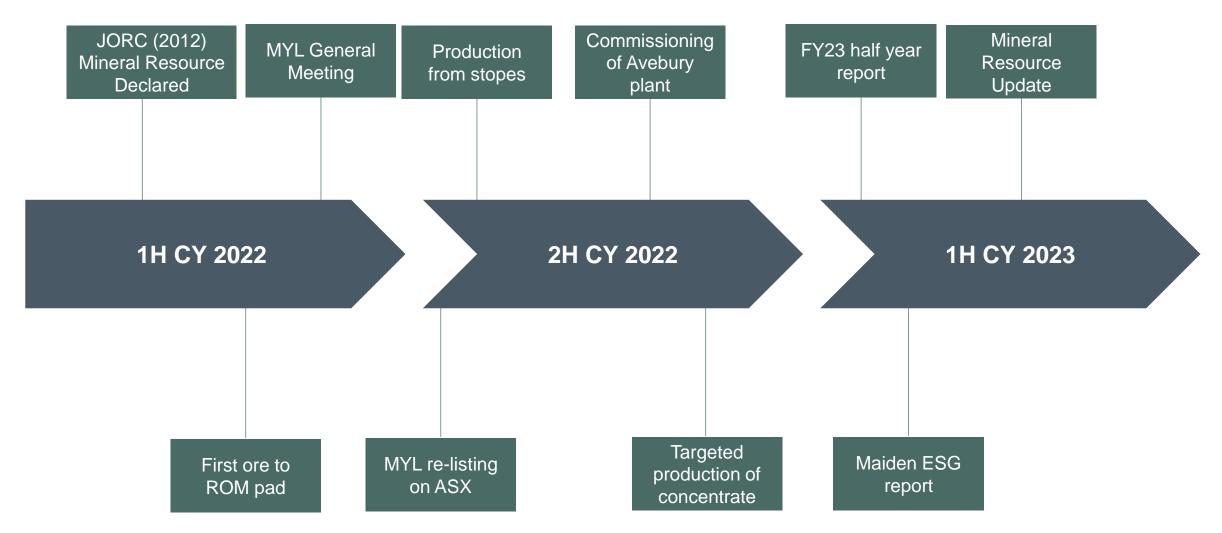
Map of Tasmanian Mineral Projects 1





Western Tasmania Export Corridor Plan 2017

Indicative timeline







A start to mining operations

- Nameplate Avebury processing plant throughput is 900 ktpa or 75 ktpm
- OZL achieved a maximum plant throughput of 70 ktpm when commissioning Avebury in 2008
- MYL will seek to develop a stockpile on the ROM pad in the coming months sufficient to allow for the commissioning of the plant
- MYL plans a graduated commissioning phase to test plant bottlenecks before bringing production up to nameplate capacity

First blast in 13 years at Avebury May 2022





Snapshots from site





Underground drone survey



Loader #1 arriving



Heli-supported geophysics survey



Mine Rescue training



Snapshots from site









Production Drill Rig



First Ore Truck in 13 Years





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Mineral Resource Estimate

Avebury Mineral Resource estimate, reported from all blocks within Ni > 0.4 % envelope

JORC classification	Tonnage (Mt)	Ni (%)	Co (ppm)	As (ppm)	Contained Ni (kt)	Contained Co (kt)
Indicated	8.7	1.0	244	378	87	2
Inferred	20.7	0.8	223	297	166	5
TOTAL	29.3	0.9	229	321	264	7

