# A near-term producer in Australia with a margin highly leveraged to the Silver Price

**2024 Annual General Meeting Presentation** 

26 November 2024

**ASX: BML** 



**boabmetals.com** Delivering metals for a sustainable future



## Disclaimer

#### **Forward-Looking Statements**

Certain statements in the presentation are or may be "forward-looking statements" and represent the Company's intentions, projections, expectations or beliefs concerning, among other things, future operating and exploration results or the Company's future performance. These forward-looking statements speak, and the presentation generally speaks, only at the date hereof. The projections, estimates and beliefs contained in such forward-looking statements necessarily involve known and unknown risks and uncertainties, and are necessarily based on assumptions, which may cause the Company's actual performance and results in future periods to differ materially from any express or implied estimates or projections.

#### **General Disclaimer**

The information in this presentation remains subject to change without notice. This presentation may contain information (including information derived from publicly available sources) that has not been independently verified by the Company.

### Not an Offer

This presentation is for information purposes only. The presentation does not comprise a prospectus, product disclosure statement or other offering document under Australian law. The presentation does not constitute or form part of any invitation, offer for sale or subscription or any solicitation for any offer to buy or subscribe for any shares in Boab Metals Limited.

### No Liability

Boab Metals Limited has prepared this document based on information available at the time of preparation. No representation or warranty, express or implied is made as to the fairness, accuracy or completeness of the information, opinions and conclusions contained in this presentation. To the maximum extent permitted by law, Boab Metals Limited, its related bodies corporate and the officers, directors, employees, advisers and agents of those entities do not accept any responsibility or liability for any loss arising from the use of the presentation or its contents or otherwise arising in connection with it.

### **Compliance Statement**

The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the 'JORC Code') sets out minimum standards, recommendations and guidelines for Public Reporting in Australasia of Exploration Results, Mineral Resources and Ore Reserves.

Information included in this presentation relating to Mineral Resources has been extracted from the Mineral Resource Estimate dated 17 December 2021, available to view at www.boabmetals.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in the Mineral Resource Estimate and that all material assumptions and technical parameters underpinning the estimates, continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the Mineral Resource Estimate.

Information included in this presentation relating to Ore Reserves, Production Targets and Financial Forecasts has been extracted from the Sorby Hills Definitive Feasibility Study and FEED Study dated 19 January 2023 and 6 June 2024 respectively, available to view at www.boabmetals.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in the Ore Reserve Statement and that all material assumptions and technical parameters underpinning the estimates, production targets and financial forecasts continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the Ore Reserves Statement. 0

0

0

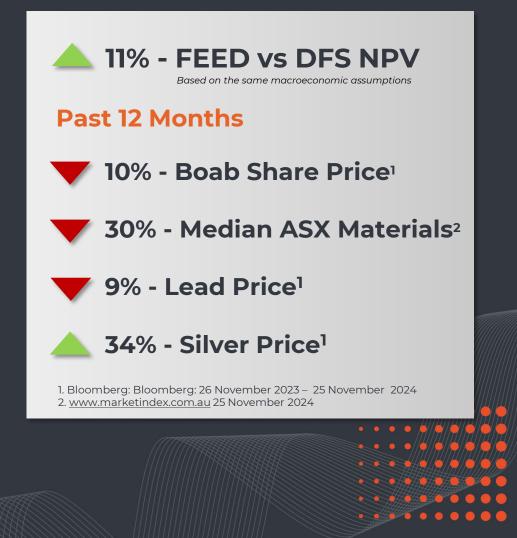


## 2024 Year in Review

**Progress toward a Final Investment Decision at Sorby Hills** 

- Completion of a Front-End Engineering & Design Study ("FEED Study") delivering improved project economics<sup>1</sup>.
- ✓ Agreement to acquire 100% of Sorby Hills upon Final Investment Decision<sup>2</sup>.
- Opportunity to acquire **DeGrussa Process Plant** and significantly reduce project Capex<sup>3</sup>.

ASX Release 6 June 2024
 ASX Release 23 September 2024
 ASX Release 25 October 2024



•

0



## Sorby Hills Project FEED Study completed June 2024

### **FEED Study Highlights**

A\$264m preproduction Capex underpinned 75% by tendered pricing

### **C1 cash cost US\$0.36/lb payable Pb** Incl. net Silver credit of US\$0.37/lb payable Pb

### **Average Annual Production** 103kt Lead-Silver concentrate 64kt Lead and 2.0Moz Silver

**2.25Mtpa** 8.5 Year Mine Life

NPV<sub>8</sub> A\$411m IRR 37% Strong pre-tax economics

### A\$1.1bn Operating Cash Flow

A\$126m p.a. Average EBITDA

h Flow

1. See Appendix for Revenue Assumptions

2. See Appendix for Annual Physical and Cash flow summary together with Capital and Operating Cost breakdowns

### Lead

546 thousand payable tonnes A\$1,803 Million Revenue

Silver

•

0

0

### 

• • /• /• • • • • •

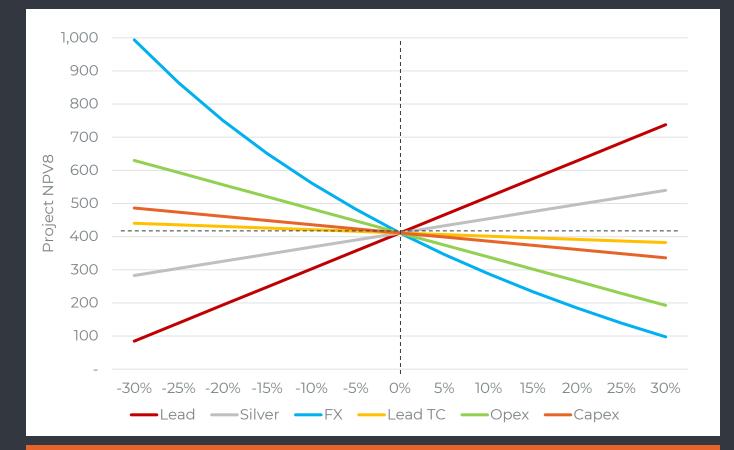
• • • • • • //•//•//•//•/

17.2 million payable ounces

A\$693 Million Revenue



## Sorby Hills Project Project Sensitivities



### FEED Study Macroeconomic Assumptions Pb: US\$2,252/t, Ag: US\$27.4/oz, FX: 0.68, Lead TC: US\$125/t

### Macroeconomics As at 25 November 2024

- Lead: US\$2,022/t
- Silver: US\$30.6/oz
- FX: 0.65 AUD:USD
- Spot Lead TC: US\$30/t<sup>1</sup>

## $NPV_{8} = A$493m$

1. Source: What do the record low base metal concs TCs have in common? – Fastmarkets 28 June 2024

•

0



## Sorby Hills Project Agreement to acquire 100% Interest

### **Terms of the Agreement**

12-month option for Boab to acquire remaining 25% interest in Sorby Hills existing JV partner.

Full control over joint venture budgets and work programs during the Option Period.

Should the Option be exercised, Boab will pay:

- **Tranche 1: A\$12.5M** upon reaching a Final Investment Decision at Sorby Hills
- **Tranche 2: A\$5.5M** payable within 12 months following first concentrate production; and
- **Tranche 3: A\$5.0M** payable within 18 months following first concentrate production.

**Importantly**, the option agreement requires no immediate payment and provides a new basis on which to engage potential Offtakers and Financiers.

+218kt Concentrate °
+137kt Payable Lead
+4.3Moz Payable Silver
+A\$103M NPV

Attributable to Boab based on the Sorby Hills FEED Study

ASX Release 6 June 2024

•



## Sorby Hills Project Capital Cost Reduction Initiative

Boab is assessing multiple opportunities to reduce the capital expenditure for Sorby Hills.

**Potential purchase of the DeGrussa Process Plant** from Sandfire Resources has been identified as highly prospective and **fit-for-purpose opportunity**.

Currently located 900km northeast of Perth

Part of the world-class DeGrussa Copper mine that was built and operated by Sandfire between 2011-2023

Boab is working with EPC Contractor GR Engineering Service ("**GRES**") to undertake a thorough review of the plant and assess the technical and economic benefit of its incorporation into the Sorby Hills Project.

Should an acquisition proceed, it has the potential to materially reduce project capital costs and shorten project construction time frames.



Figure: Recent site Visit to the DeGrussa Process Plant

0

0



## Boab Metals Corporate Summary

Cap	Capital Structure (25 November 2024)									
	<b>hare Price</b> \$0.13 /share	<b>Debt</b> Nil								
	<b>nares on Issue</b> 33 million shares	<b>Cash</b> A\$3.9 million <sup>1</sup>								
AS	<b>arket Cap</b> \$30 million op 5 Shareholders	<b>Perforn</b> 7,600,00		Rights						
#	Holder Name		24 Oct	ober 2024						
1	Villiers Queensland PL			7.82%						
2	Zero Nominees Pty Ltd		2	4.11%						
3	Citicorp Nominees Pty Limi	ted	3	3.33%						
4	Acuity Capital Investment		3	3.33%						
5	BNP Paribas Nominees Pty	Ltd	2	2.21%						

### Share Price History



- ASX-listed base and precious metals developer and explorer.
- Advancing toward Final Investment Decision on Sorby Hills.
- Board & Management team with a proven track record in development.
- Top 20 shareholders hold 35% of issued capital.

•

8

1. \$4.8m At the market (ATM) Facility available for use at the company's absolute discretion



## Sorby Hills Project Final Investment Decision Milestones

- Completed Project FEED Study
- ✓ Secured option to acquire 100% of the Project
- Identified material capital reduction opportunity
- Q4/2024: Secure cornerstone Offtake and Financing
- **Q1/2025**: Complete due diligence on the potential acquisition of the DeGrussa Process Plant and incorporate the results into a project execution plan and financial model for comparison with a new process plant build.
- Through H1 2025:
  - Secure additional non-dilutive debt finance to support funding of the Sorby Hills project; and
  - Finalise regulatory approvals required to commence construction at Sorby Hills
- Mid 2025: Final Investment Decision

Recent achievements provide Boab with significant momentum heading into 2025 and a refreshed pathway to a Final Investment Decision

•

0



## Thank You

- Simon Noon Managing Director & CEO
- ☑ info@BoabMetals.com
- ▷ www.BoabMetals.com
- www.linkedin.com/company/boab-metals



## Appendix





## Board and Technical Team

Board and Management with a **proven track record** in exploration and development



Gary Comb Chairman

Engineer with over 30 years' experience in the Australian mining industry, with a strong track record in successfully commissioning and operating base metal mines.



Simon Noon Managing Director and CEO

Experienced mining executive with a strong background in management, capital raising and operating JV's with mid to top tier miners in a variety of commodities.



Richard Monti Non-Exec. Director

Geologist with over 30 years' experience in technical, commercial, marketing and finance within the exploration and mining industry.



Andrew Parker Non-Exec. Director

Lawyer with significant experience in the exploration and mining industry. Wealth of expertise in corporate advisory, strategic consultancy and raising capital.

## **Technical Team**

### Bill Darcey – Project Manager

Simon Dorling - Exploration Manager

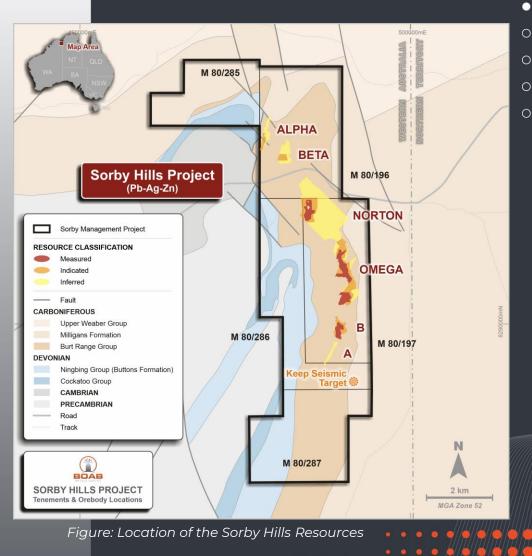
Mining professional with over 40 years of experience and a proven track record of successfully managing, optimising, and developing mining operations. Bill was previously Operations Manager at the Mt Garnet copper-lead-zinc operation, where he oversaw the successful start-up and management of an 800,000 TPA zinc-lead operation in China. Bill holds degrees in both mining engineering and metallurgy.



	gn Q	uall		esou	rce	EStir	na	le
_	Tonnes		Gra		Contained Metal			
Deposit	(Mt)	Pb %	Zn %	Ag g/t	PbEq <sup>1</sup> %	Pb kt	Zn kt	Ag koz
Α	0.6	5.3%	0.1%	23	6.1%	31	6	427
В	2.7	3.6%	0.3%	20	4.3%	97	8	1,720
Omega	17.2	3.3%	0.4%	34	4.5%	566	71	18,948
Norton	21.1	2.8%	0.4%	34	4.0%	590	96	24,090
Alpha	1.5	3.1%	0.9%	64	5.3%	45	13	2,975
Beta	4.2	3.6%	0.4%	43	5.1%	151	17	5,856
Measured	12.6	3.5%	0.4%	43	5.0%	444	45	17,521
Indicated	11.0	3.4%	0.4%	34	4.6%	377	46	12,114
Inferred	23.6	<b>2.7</b> %	0.5%	31	3.8%	645	117	23,406
Total	47.3	3.1%	0.4%	35	4.3%	1,465	207	53,042

Sorby Hills Project

Ligh Quality Decourse Estimate



See ASX announcement 17 December 2021

BOAB METALS LIMITED

1. See Appendix for Lead & Silver Equivalent calculation method

A different perspective - 47.3Mt @ 123g/t Silver Equivalent

13

• • •//



## Sorby Hills Project Low Risk Open Pit Ore Reserve

### **FEED Study Production Target**

Pit	Total (Mt)	Waste (Mt)	ROM (Mt)	Рb (%)	Ag (g/t)	PbEq (%)	Strip Ratio
Pit A	4.1	3.7	0.5	3.7	16.4	4.3%	8.1
Pit B	14.8	12.6	2.3	3.2	17.4	3.8%	5.5
Omega South	21.1	18.3	2.8	2.9	29.5	3.9%	6.5
Omega Main	57.7	50.3	7.4	3.6	38.7	5.0%	6.8
Norton	21.4	19.5	1.9	4.0	78.5	6.8%	10.0
Beta	35.6	32.2	3.4	3.3	41.5	4.8%	9.5
Total Production	154.8	136.5	18.3	3.4	38.8	<b>4.8</b> %	7.5

1. See Appendix for Lead Equivalent calculation met

### **Ore Reserve Statement**

Ore Reserve	Ore	Gra	ade	Contained Metal		
Category	(Mt)	Pb (%)	Ag (g/t)	Pb (kt)	Ag (Moz)	
Proved	10.4	3.5%	42	358	14.1	
Probable	4.9	3.5%	32	172	5.0	
Total Ore Reserve	15.2	3.5%	39	531	19.1	

ee ASX announcement 19 January 2023

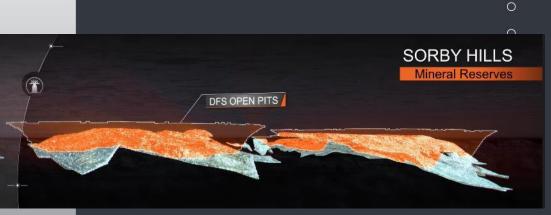
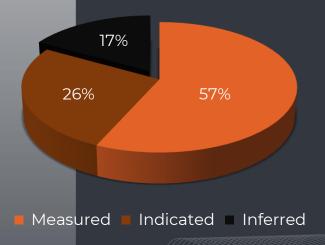


Figure: DFS pit shells with respect to the Resource block model



Production Target underpinned 83% by Measured and Indicated Resources.

Including 95% Measured and Indicated Resources over the first 7 years of production.

•



## Sorby Hills Feed Study Life of Mine Physicals

PHYSICALS SUMMARY	Unit	Total	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
ROM Mined	Mt	18.3	-	0.4	2.1	2.3	2.4	2.5	2.3	2.0	1.1	3.0	0.3	-
Waste Mined	Mt	134.6	-	3.8	11.7	14.3	25.7	25.4	21.0	17.3	13.0	4.2	0.2	-
% Measured	%	<b>56.7</b> %	-	67.3%	91.7%	64.7%	72.0%	89.7%	71.8%	47.7%	16.6%	-	-	-
% Indicated	%	<b>26.5</b> %	-	32.7%	8.3%	35.3%	27.2%	8.9%	26.7%	49.7%	30.6%	31.1%	-	-
% Inferred	%	<b>16.8</b> %	-	-	-	-	0.9%	1.4%	1.5%	2.7%	52.8%	68.9%	100.0%	-
Lead Grade	%	3.4%	-	3.8%	4.1%	3.2%	3.8%	3.3%	3.1%	3.1%	3.6%	3.4%	2.9%	-
Silver Grade	g/t	39	-	24	39	28	60	50	22	27	42	41	50	-
Processed Tonnes	Mt	18.3	-	-	1.39	2.25	2.26	2.25	2.25	2.25	2.26	2.25	1.11	-
Lead Grade	%	3.4%	-	-	5.5%	3.4%	4.0%	3.5%	3.1%	3.0%	2.5%	3.5%	3.0%	-
Silver Grade	g/t	39	-	-	47	30	59	54	24	27	30	41	41	-
Lead Recovery	%	91.6%	-	-	90.9%	94.1%	90.0%	88.0%	92.7%	94.7%	93.8%	90.3%	90.3%	-
Silver Recovery	%	<b>81.7</b> %	-	-	87.2%	86.2%	82.2%	81.4%	86.9%	86.9%	85.7%	70.4%	70.3%	-
Concentrate Produced	kt	873	-	-	109	110	126	112	99	98	80	97	42	-
Lead Grade	%	<b>65.8</b> %	-	-	64.2%	65.6%	63.5%	62.4%	65.9%	66.0%	65.7%	72.2%	72.3%	-
Silver Grade	g/t	664	-	-	529	532	860	878	479	535	730	677	770	-
Payable Lead	kt	546	-	-	61	69	79	65	63	63	50	68	30	-
Payable Silver	Moz	17.2	-	-	1.5	1.7	3.2	3.0	1.4	1.5	1.8	2.0	1.0	-

15

•

0

0

Boab Metals Limited ASX: BML



## Sorby Hills Feed Study Life of Mine Cashflows

FINACIAL SUMMARY	Unit	Total	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Lead Revenue	A\$M	1,803	-	-	198	225	260	215	207	208	165	226	98	1,803
Silver Revenue	A\$M	693	-	-	59	69	131	121	57	62	71	82	40	693
Total Revenue	A\$M	2,496	-	-	257	295	392	337	264	269	236	308	138	-
TR/RCs	A\$M	(191)	-	-	(21)	(23)	(30)	(26)	(21)	(21)	(18)	(22)	(10)	-
Royalties	A\$M	(95)	-	-	(10)	(11)	(14)	(12)	(10)	(10)	(9)	(12)	(5)	-
Net Revenue	A\$M	2,209	-	-	227	260	347	299	233	238	210	274	123	-
Logistics	A\$M	(117)	-	-	(14)	(15)	(17)	(15)	(13)	(13)	(11)	(13)	(6)	-
Mining	A\$M	(547)	-	-	(51)	(62)	(94)	(93)	(81)	(71)	(54)	(36)	(4)	-
Processing	A\$M	(388)	-	-	(38)	(47)	(47)	(47)	(47)	(47)	(47)	(47)	(24)	-
G & A	A\$M	(88)	-	-	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(5)	-
Operating Cash Flow	A\$M	1,069	-	-	114	126	180	134	81	96	88	167	84	-
Pre-production Capex	A\$M	(264)	(131)	(133)	-	-	-	-	-	-	-	-	-	-
Sustaining Capex	A\$M	(26)	-	-	(12)	(1)	(3)	(1)	(O)	-	-	-	(5)	(4)
Project Cash Flows	A\$M	778	(131)	(133)	101	125	177	133	81	96	88	167	78	(4)
NPV <sub>8</sub>	A\$M	411											• • •  •  •	) • • •
IRR	%	37												
Average EBITDA	A\$M	126												

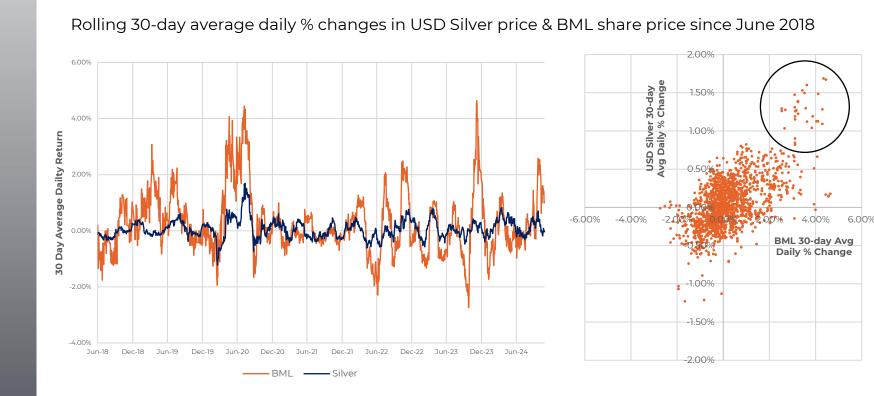
•

0

0



### Sorby Hills Project Continuing to Deliver Silver Exposure to Investors



- Since the acquisition of the Sorby Hills Project in June 2018, Boab's share price has exhibited a strong correlation with movements in the price of Silver.
  - Significant positive movements in Silver price correspond to significant positive movements in the Boab share price

17

•

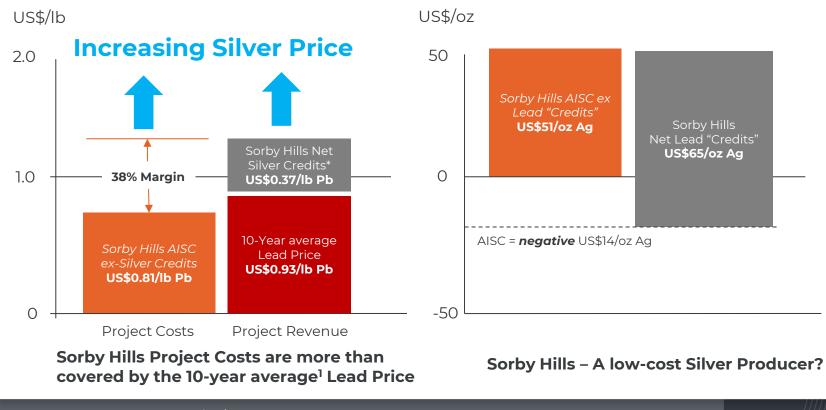
0

0



# Sorby Hills Project **Exposure to Silver Price**

Operating Costs covered by a historically non-volatile Lead Price leaves the Operating margin fully leveraged to Silver price movements.



AISC = All in Sustaining Cost or "Breakeven" cost

Viewed differently, the Sorby Hills Project may be considered a low-cost silver producer

AISC = negative US\$14/oz Ag

0

0

0

0

\*Based on FEED Study Price of US\$27/oz Ag <sup>1</sup>As at 5 August 2024



## Sorby Hills FEED Study Capital Cost Breakdown

**Total upfront capital cost of A\$264M** including A\$22.7M contingency

~66% of capital costs underpinned by tendered pricing, including an updated Process Plant EPC pricing following the completion of Front-End Engineering & Design by GRES.

**A\$32M Owner Costs** including operational readiness items such as critical spares and owner's team

Opportunities being explored to further reduce upfront capital costs and project implementation risk.

ltem	Pre-Production (A\$M)	Sustaining (A\$M)	Total (A\$M)
EPC Contract	134.9	-	134.9
Site Ests/ Bulk Earthworks	31.9	4.9	36.9
Water Management	8.1	11.7	19.8
Accommodation Village	11.5	-	11.5
Other Infrastructure	8.5	0.6	9.1
Owners Costs	32.0	-	32.0
Contingency	22.7	-	22.7
Pre-Production Opex	15.0	-	15.0
Closure Costs	-	9.3	9.3
Total Capital Costs	264.5	26.5	290.9

0

0

0



## Sorby Hills FEED Study Operating Cost Breakdown

Competitive **C1 cash cost of US\$0.36/lb payable Pb** (including Silver Credits).

~80% of Mining Costs underpinned by tendered pricing.

**Opportunity to reduce Process costs** through the optimisation of back-up power requirements.

lkom	Total	U	nit Costs						
Item	(A\$M)	A\$/t ore	US\$/lb payable Pb						
Logistics	117	6.4	0.07						
Mining	547	30.0	0.31						
Processing	388	21.3	0.22						
G & A	88	4.8	0.05						
Lead Treatment	160	8.8	0.09						
C1 Costs (ex-Credits)	1,300	71.2	0.74						
Net Silver Credits	(661)	(36.2)	(0.37)						
C1 Costs	639	35.0	0.36						
Royalties	95	5.2	0.05						
Sustaining Capital	26	1.4	0.01						
AISC	760	41.6	0.43						
Unit Operating Costs based on 18.3Mt of Ore, 546kt of Payable Lead, average exchange rate of AUD:USD 0.68 and average Silver price of US\$27.4/oz.									

•

0

0



## Boab Metals Establishing Deep Roots within the Local Community

### Boab is extremely proud to be the Naming Rights Sponsor of the Ord Valley Muster for 2023 and beyond.

- Sense of community plays a key role in economic and social well-being of stakeholders across the east Kimberley Region.
- The Ord Valley Muster has been a highlight of the Kimberley community calendar for 20 years.

## Boab is an enthusiastic supporter and active contributor to the Teach Learn Grow program.

 Boab Metals has been partnering with Teach Learn Grow (TLG) since 2021 in the delivery of their Rural Program which supports one-on-one tutoring and mentorship to students in East Kimberley schools.



Images: Ord Valley Muster 2023 and Simon Noon - Managing Director/CEO with team at Teach Learn Grow, East Kimberley



•

0



## Metal Equivalent Calculations



### The contained metal equivalence formula is based on the Sorby Hills FEED Study including:

- Lead Price US\$2,253/t; and
- Silver Price US\$27.4/oz.
- Pb

### Lead Equivalent Calculations

- Silver recovery of 82% (weighted average of oxide and fresh Ag recoveries); and
- Silver Payability rate of 95%.



### **Silver Equivalent Calculations**

- Lead recovery of 91% (weighted average of oxide and fresh Pb recoveries); and
- Lead Payability rate of 95%.

It is Boab's opinion that all elements included in the metal equivalent calculation have a reasonable potential to be recovered and sold. The formula used to calculate lead equivalent grade is:

 $Metal \ Eq \ (percent) = G_{pri} + (G_{pri} \times [\sum_i R_i S_i V_i G_i] / (R_{pri} S_{pri} V_{pri} G_{pri}))$ 

where **R** is the respective metallurgical metal recovery rate, **S** is the respective smelter return rate, **V** is metal price/tonne or ounce, and **G** is the metal commodity grade for the suite of potentially recoverable commodities (**i**) relative to the primary metal (**pri**).

Metal equivalents are highly dependent on the metal prices used to derive the formula. Boab notes that the metal equivalence method used above is a simplified approach. The metal prices are based on the DFS values adopted and do not reflect the metal prices that a smelter would pay for concentrate nor are any smelter penalties or charges included in the calculation.

Owing to limited metallurgical data, zinc grades are not included at this stage in the lead equivalent grade calculation.

### Feed Study Macroeconomic Assumptions

Assumption	Unit	2025	2026	2027	2028	2029+
Lead Price	US\$/t	2,259	2,268	2,269	2,254	2,251
Silver Price	US\$/oz	24.8	25.8	26.4	27.3	27.5
Exchange Rate	A\$:US\$	0.70	0.70	0.70	0.69	0.68

0

0