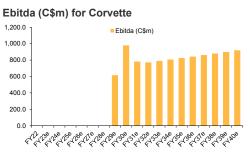
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#### 10 January 2023

#### EQUITIES



Source: PMT, Macquarie Research, January 2023

PMT AU/PMET CN	Outperform
Price (at 00:29, 10 Jan 2023 GMT)	A\$0.84/C\$7.75

Valuation A\$ 1.20/C\$11.14 - DCF (WACC 13.0%, beta 1.6, ERP 5.0%, RFR 2.8%, TGR 2.6%)

12-month target	A\$	1.20/C\$11.10
12-month TSR	%	+4 <b>3</b> /+43
Volatility Index		Very High
GICS sector		Materials
Market cap	A\$m	779
30-day avg turnover	A\$m	1.3
Number shares on issue	m	927.9

#### Investment fundamentals

Year end 31 Mar		2022A	2023E	2024E	2025E
Revenue	m	0.0	0.0	0.0	0.0
EBITDA	m	-4.2	-19.1	-16.4	-16.8
EBIT	m	-4.2	-19.1	-16.4	-16.8
Reported profit	m	-3.9	-17.3	-16.1	-16.5
Adjusted profit	m	-3.6	-17.3	-16.1	-16.5
Gross cashflow	m	-3.6	-17.3	-16.1	-16.5
CFPS	¢	-21.6	-16.6	-11.0	-10.5
CFPS growth	%	-127.6	23.3	33.9	4.4
EPS adj	¢	-21.6	-16.6	-11.0	-10.5
EPS adj growth	%	-127.6	23.3	33.9	4.4
PER rep	х	nmf	nmf	nmf	nmf
Total DPS	¢	0.0	0.0	0.0	0.0
Total div yield	%	0.0	0.0	0.0	0.0
ROA	%	-26.8	-49.0	-17.9	-8.6
ROE	%	-25.3	-54.2	-20.2	-9.0
EV/EBITDA	х	-6.3	-3.6	-4.9	-5.8
Net debt/equity	%	-49.0	-30.2	-60.4	-68.6

Source: FactSet, Macquarie Research, January 2023 (all figures in CAD unless noted. TP in AUD)

#### Analysts

Macquarie Securities (Australia) Limited

Hayden Bairstow +61 439 889 321 hayden.bairstow@macquarie.com



Andrew Bowler +61 448 433 736 andrew.bowler@macquarie.com

Jon Scholtz +61 400 036 617 jon.scholtz@macquarie.com

Adam Baker +61 467 070 016 adam.baker@macquarie.com



Australia

# Patriot Battery Metals (PMT AU/PMET CN) Corvette's got class

#### **Key points**

- PMT's Corvette spodumene project in northern Québec is shaping up as one of the largest spodumene discoveries in the lithium industry.
- The company expects to release a maiden resource in March 2023, which we believe will exceed 100mt @ +1.0% Li2O.
- We initiate coverage on PMT AU and PMET CN with Outperform ratings and set price targets of A\$1.20 and C\$11.10, respectively.

#### A world-class discovery

Patriot Battery Metals (PMT AU/PMET CN) owns the Corvette spodumene project in northern Québec in Canada. Exploration completed over the past two years has defined significant spodumene mineralisation, which we believe will ultimately deliver a maiden resource more than 100mt @ +1.0% Li<sub>2</sub>O.

Exploration drilling will accelerate in 2023 with PMT adding two additional drill rigs to the three on site. The five drill rigs in total will look to test for depth extensions and undertake an infill drilling program to enable some of the maiden resource to be upgraded to the indicated category.

Our valuation for PMT is derived from a full development scenario of Corvette, which we base off a mining inventory of 136mt @ 1.13% Li<sub>2</sub>O. Variances in our mining inventory vs the actual reserve and resource defined present the most significant risk to our base case valuation for PMT.

The delineation of a maiden resource presents a material near-term catalyst for PMT, and we expect the ultimate scale of the project to surprise on the upside. The company is listed on the ASX and TSX and we initiate coverage on PMT AU and PMET CN with Outperform ratings, setting price targets of A\$1.20 and C\$11.10, respectively.

#### Corvette a large-scale development

We assume a process plant throughput rate of 5.0mtpa, similar scale to Pilgangoora and Wodgina. The strip ratio is expected to be modest given the size of the outcrops at CV5, however we have assumed a gradual increase over the life of the project as the open pits get deeper. We assume a flat grade of 1.13% Li<sub>2</sub>O, which translates to a spodumene production rate of 620ktpa based on the 5.0mtpa throughput and 70% recovery rate.

Our development scenario assumes pre-production capex of C\$750m and a life of mine AISC of US\$710/t. Should PMT be able to secure local downstream processing capacity within Québec we would expect total costs to be materially lower than our base case due to reduced transport requirements.

#### Strong regional exploration pedigree

The Corvette project consists of 417 mineral claims that cover an area of 21,375 hectares. Drilling to date has defined significant spodumene mineralisation over the 2.2km CV5 trend. Mineralisation has also been defined at separate outcropping pegmatites at CV13, CV8, CV9 and CV12. We note that the significant regional exploration potential at Corvette account for just 9% of our valuation for PMT.

Inside

Six key charts	
A world-class discovery	
Corvette a large-scale development	
Strong regional exploration pedigree	1
Board and Management	1
ESG Considerations	1

# Patriot Battery Metals

# **Company profile**

3

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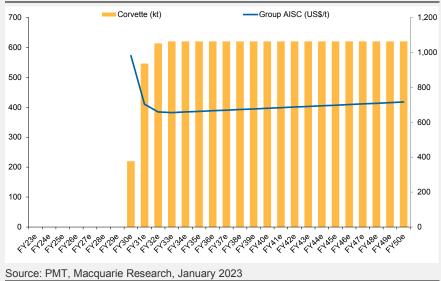
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- Patriot Battery Metals (PMT/PMET) has a 100% interest in the Corvette lithium spodumene project in the James Bay region in Northern Québec, Canada.
  Early-stage exploration identified outcropping lithium-bearing pegmatites over a +25km strike length within the 213km<sup>2</sup> tenement package.
- Drill testing of the outcrops commenced in mid-2021, returning impressive intersections that defined spodumene and tantalum mineralisation over widths of +150m. A 20,000m program is nearing completing that will enable a maiden resource for the Corvette deposit to be released in 2023.
- We believe Corvette has the potential to underpin a significant spodumene project. Our mining inventory assumption of 136mt @ 1.13% Li<sub>2</sub>O should enable PMT to develop an open-pit mine that could produce +600ktpa of spodumene concentrate once in full production. We note that as a resource has yet to be defined, the project is likely to be ~5 years from first production.



#### Fig 1 We believe Corvette could deliver +600ktpa of spodumene

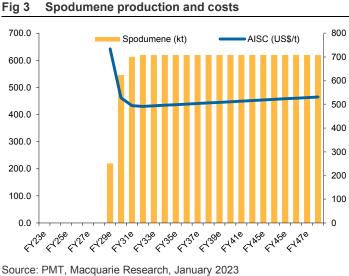
# Fig 2 PMT AU rel Small Ordinaries performance, & rec history



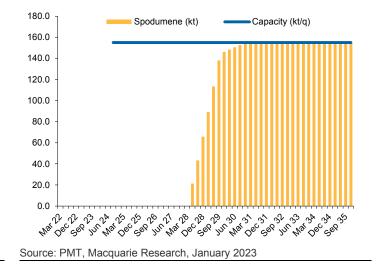
Note: Recommendation timeline - if not a continuous line, then there was no Macquarie coverage at the time or there was an embargo period. Source: FactSet, Macquarie Research, January 2023

(all figures in CAD unless noted, TP in AUD)

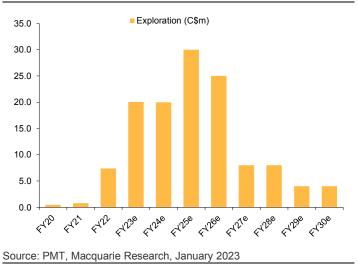
# Six key charts



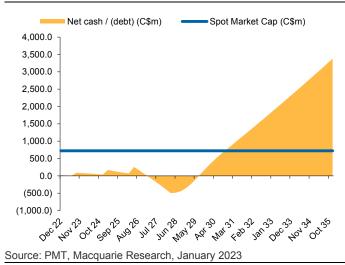
# Fig 4 Spodumene quarterly ramp-up profile



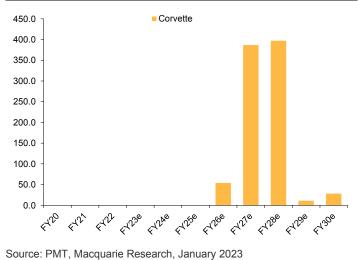
### Fig 5 Exploration spend (C\$m)



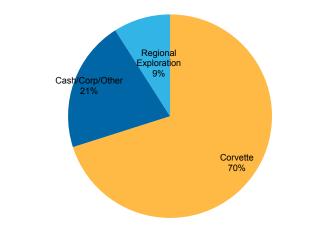
# Fig 7 Net cash build vs Market Cap



# Fig 6 Capex by project (C\$m)



# Fig 8 NPV by project (C\$m)



Source: PMT, Macquarie Research, January 2023

# Fig 9 Patriot Battery Metals summary earnings and valuation

ASX: PMT TSX: PMET		Price: (A			Mkt cap:		779 710		Year end:	Mar 92.8			Rating: Target:	Outperfor	m	Up/dn	TS 435
ISX: PMET		Price: (C	sps)		Mkt cap: Mkt cap:		719 539		Diluted shares (m)	92.8			°,	A\$1.20 C\$11.10		43% 43%	43 43
FX ASSUMPTIONS		FY22	FY23e	FY24e	FY25e	FY26e	FY27e	FY28e	COMMODITY PRICES		FY22	FY23e	FY24e	FY25e	FY26e	FY27e	FY28
4\$/US\$	(x)	0.74	0.68	0.68	0.70	0.70	0.70	0.70	Spodumene	(US\$/t) (US\$/t)	418 10,280	1,519 18,736	5,286 59,187	6,425 76,750	6,125 79,750	5,650 79,500	4,95 71,50
RATIO ANALYSIS		FY22	FY23e	FY24e	FY25e	FY26e	FY27e	FY28e	SPODUMENE OPERATIONS		FY22	FY23e	FY24e	FY25e	FY26e	FY27e	FY28
Diluted share capital	m Ad	37.7 (23.0)	132.4	147.2 (11.3)	169.4 (10.9)	169.4 (9.8)	213.9 (8.0)	213.9 (19.8)	Project (100%)	(kt)	0	0	0	0	0	0	
EPS (diluted and pre sig. items) P/E	A¢ x	(23.0) nm	(16.8) nm	(11.3) nm	(10.9) nm	(9.0) nm	(0.0) nm	(19.0) nm	Corvette Total	(kt)	0	0	0	0	0	0	
CFPS	A¢	(27.9)	(22.9)	(24.9)	(28.6)	(26.8)	(11.4)	(21.9)		()	-	-	-	-	-	-	
P/CF	x	nm	nm	nm	nm	nm	nm	nm	AISC								
DPS	A¢	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Corvette	(US\$/t)	0	0	0	0	0	0	
Dividend yield	%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	Group AISC	(US\$/t)	0	0	0	0	0	0	
Franking Level	%	0%	0%	0%	0%	0%	0%	0%		<i>a</i> 0							
Book value per share	A¢	0.63	0.30	0.81	1.46	1.35	2.34	2.16	Lithium Carbonate Equivalent	(kt)							
P/Book value R.O.E. (pre sig items)	x %	12.2x (15%)	25.7x (43%)	9.5x (13%)	5.3x (7%)	5.8x (7%)	3.3x (3%)	3.6x (9%)	SPODUMENE PRODUCTION (100%	( BASIS)							
R.O.A. (pre sig items)	%	(15%)	(43%)	(13%)	(6%)	(7%)	(3%)	(3%)									
Interest Cover	x	6.9x	10.1x	69.9x	61.6x	26.3x	26.4x	(0.7x)	700 Corvette	(kt)		_	Group Al	SC (US\$/t)			<sup>1,2</sup>
EBITDA per share	A\$	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)									_
EV/EBITDA	x	nm	nm	nm	nm	nm	nm	nm	600 -								- 1,0
Free cash flow yield	%	(4%)	(3%)	(3%)	(4%)	(8%)	(25%)	(27%)									
									500 -								- 800
EARNINGS Sales Revenue	C.C.+++	FY22	FY23e	FY24e	FY25e 0	FY26e	FY27e	FY28e	400 -								
Other Revenue	C\$m C\$m	0	0	0	0	0	0	0	400 -								- 600
Total Revenue	C\$m	0	0	0	0	0	0	0	300 -								- 000
Operating Costs	C\$m	0	0	0	0	0	0	0	500								
Operational EBITDA	C\$m	0	0	0	0	0	0	0	200 -								- 40
Exploration expense	C\$m	0	0	0	0	0	0	0									
Corporate & Other Costs	C\$m	(4)	(19)	(16)	(17)	(17)	(18)	(18)	100 -								- 200
EBITDA	C\$m	(4)	(19)	(16)	(17)	(17)	(18)	(18)									
D&A	C\$m	0	0	0	0	0	0	0	0	╷┻╷┻╷┻			╷┻╷┻╷				4 0
EBIT	C\$m	(4)	(19)	(16)	(17)	(17)	(18)	(18)		3°.3°.3°.	\$******	°.~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	10°, 1°°, 12	EASE ARE AS	°, 6°, 61°, 6	3°, 3°, 50°	
Net Interest Profit Before Tax	C\$m <b>C\$m</b>	1	2	0 (16)	0	1 (17)	1 (17)	(24)	6.6.6.6.6.6.6.6.6.6	888	660	でぐぐ	66	ぐぐぐく	てくぐ	С.С.	
Tax Expense	C\$m	( <b>4</b> ) 0	(17) (0)	<b>(16)</b> 0	(17) 0	(17) 0	(17) 0	( <b>42</b> ) 0	MINING INVENTORY								
Minorities	C\$m	0	(0)	0	0	0	0	0	Mining Inventory								
Adjusted NPAT	C\$m	(4)	(17)	(16)	(17)	(17)	(17)	(42)	Corvette						Ore (mt) I	_i <sub>2</sub> O (%)	Li <sub>2</sub> O (k
Significant Items (post tax)	C\$m	(0)	0	0	0	0	0	0	Mining Inventory						136.4	1.13%	1,539
Reported NPAT	C\$m	(4)	(17)	(16)	(17)	(17)	(17)	(42)									
CASHFLOW		FY22	FY23e	FY24e	FY25e	FY26e	FY27e	FY28e	RESERVES AND RESOURCES								
Net Profit	C\$m	(4)	(17)	(16)	(17)	(17)	(17)	(42)	Spodumene reserves								
Interest/Tax/D&A	C\$m	(7)	(20)	(20)	(31)	(27)	(9)	(9)	Corvette						Ore (mt)		
Working Capital/other	C\$m	0	7	0	(1)	(2)	1	5	Proved						0.0	0.00%	0
Net Operating Cashflow Capex	C\$m C\$m	( <b>11</b> ) 0	<b>(30)</b> 0	<b>(37)</b> 0	<b>(49)</b> 0	(45) (54)	(24) (387)	(47) (397)	Probable Total reserves						0.0 0.0	0.00%	0
Investments	C\$m	0	0	0	0	(54)	(307)	(397)							0.0	5.00 /0	v
Sale of PPE and Other	C\$m	0	0	0	0	0	0	0	Spodumene resources								
Free cash flow	C\$m	(11)	(30)	(37)	(49)	(99)	(411)	(444)	Corvette	' <u> </u>					Ore (mt) I	_i <sub>2</sub> O (%)	Li <sub>2</sub> O (k
Dividends Paid	C\$m	0	0	0	0	0	0	0	Measured						0.0	0.00%	0
Debt	C\$m	0	0	0	0	0	68	445	Indicated						0.0	0.00%	0
Equity Issuance	C\$m	22	31	97	146	0	291	0	Inferred						0.0	0.00%	0
Other	C\$m	0	0	0	0	0	0	0	Total resources						0.0	0.00%	0
Net Financing Cashflow	C\$m	22	31	97 60	146	0	359	445 1									
Net change in cash	C\$m	12	0	60	97	(99)	(53)	1									
	0	FY22	FY23e	FY24e	FY25e	FY26e	FY27e	FY28e	SUM-OF-THE-PARTS NPV		PMT AU			PME		PMT A£m	
Cash PP&F & Mine Development	C\$m	12 0	12 0	72	169 0	70 54	17 441	18 838	Projects		<b>A\$m</b> 14,891	A\$ps 6.96		C\$m	C\$ps	A\$m 1,815	A\$p
PP&E & Mine Development Exploration	C\$m C\$m	0 14	38	0 58	88	54 113	441 121	838 129	Corvette Regional Exploration		14,891 974	6.96 0.46		1,690 212	7.90 0.99	1,815	0.8 0.1
Total Assets	C\$m	27	50 51	132	259	241	588	1,015	Unpaid capital and new equity		974 644	0.40		496	2.32	533	0.2
Debt	C\$m	0	0	0	233	0	54	410	Corporate		(116)	(0.05)		(107)	(0.50)	(115)	(0.0
Total Liabilities	C\$m	3	12	12	12	13	88	553	Cash		3	0.00		91	0.42	97	0.0
Total Net Assets / Equity	C\$m	24	40	120	247	228	501	462	Debt		0	0.00		0	0.00	0	0.0
Net Debt / (Cash)	C\$m	(12)	(12)	(72)	(169)	(70)	37	392	Net Equity Value (@ 13% nom WAG	CC))	16,396	7.67		2,382	11.14	2,557	1.2
	0/	(96%)	(43%)	(153%)	(218%)	(44%)	7%	46%	Price target (1.0x NPV)						C\$11.10		A\$1.2
Gearing (net debt/(nd + equity))	%	(00/0)															

Source: PMT, Macquarie Research, January 2023

# A world-class discovery

# Initiating coverage with an Outperform

Maiden resource for Corvette is an early-stage exploration that has demonstrated the potential to host significant Corvette due in early volumes of spodumene. Mineralisation has already been defined over a strike length of +2km and 2023 PMT is focusing on infill drilling to enable the delineation of a maiden resource for Corvette in early 2023. We attended one of a series of site visits hosted by PMT to Corvette in September 2022 and were able to confirm the location of drilling completed to date and the extent of the outcropping pegmatite mineralisation. Of note was the size of the spodumene crystals, which were much coarser and larger than other spodumene mines we have visited in Western Australia. Appointment of Ken The recent appointment of Ken Brinsden to the Board has added significant strength to the Brinsden to the Board management team at PMT, which is led by Blair Way, who boasts extensive experience in largescale project construction. We estimate that the initial resource for Corvette is likely to exceed 100mt, with an ultimate size closer to 200mt across the entire strike length discovered to date. Price targets set at Our valuation for PMT is derived from a full development scenario of Corvette, which we base off a A\$1.20 and C\$11.10 for mining inventory of 136mt @ 1.13% Li<sub>2</sub>O. The delineation of a maiden resource presents a PMT and PMET material near-term catalyst for PMT, and we expect the ultimate scale of the project to surprise on the upside. The company is listed on the ASX and TSX and we initiate coverage on PMT AU and PMET CN with Outperform ratings, setting price targets of A\$1.20 and C\$11.10. Mining inventory assumption based on three zones at CV5 We visited the Corvette We visited the Corvette project in September 2022 as part of several site visits hosted by PMT at project in September the time. The visit provided greater clarity as to the strike potential of the CV5 Cluster identified in drill results, as well as the greater regional potential at Corvette. We calculate the average 2022 intercept of all drilling completed to date at CV5 at 61m @ 1.06% Li<sub>2</sub>O and 139ppm Ta<sub>2</sub>O<sub>5</sub>. We calculate a mining Our analysis suggests there are three main zones defined to date and we have derived our mining inventory of 136mt @ inventory from volumetric assessment of drilling completed to date in the CV5 Zone, CV1 zone and 1.13% Li2O the Gap Zone between the two outcrops, which forms the 2.2km of strike already defined by drilling. Variances between our mining inventory and actual reserves and resources presents the most material risk to our valuation for PMT.

#### Fig 10 Mining inventory assumption key drive of our valuation

Corvette	Ore (mt)	Li <sub>2</sub> O (%)	Li <sub>2</sub> O (kt)
Mining Inventory	136.4	1.13%	1,539
Source: PMT, Macquarie Research, January 2023			

# Price target equivalent to our NPV

Our A\$1.20 and C\$11.10 price targets for PMT and PMET are equivalent to 1.0x our sum-of-theparts NPV. The bulk of the value in our NPV emanates from our discounted cash flow valuation of our development scenario for the Corvette project. We also ascribe additional value to the regional potential of the large tenement package.

# Fig 11 Sum-of-the-parts NPV for PMET CN and PMT AU

	PMET	CN	PMT AU	J
Projects	C\$m	C\$ps	A\$m	A\$ps
Corvette	1,690	7.90	1,815	0.85
Exploration	212	0.99	228	0.11
Unpaid capital and new equity	496	2.32	533	0.25
Corporate	(107)	(0.50)	(115)	(0.05)
Cash	91	0.42	97	0.05
Debt	0	0.00	0	0.00
Net Equity Value (@ 13% nom WACC))	2,382	11.14	2,557	1.20
Price target (1.0x NPV)		C\$11.10		A\$1.20
Source: PMT, Macquarie Research, January 2023				

Price targets are equivalent to 1.0x our sum-of-the-parts NPV Our valuation is diluted for three separate capital-raisings

# Valuation incorporates equity dilution to fund exploration and project development

We note that our valuation is diluted for three separate capital-raisings. The first C\$100m is assumed to occur in 2023 to enable the full drill-out of the resource into measured and indicated categories ahead of defining a reserve. The second C\$150m raising is forecast to occur in early 2025 to fund feasibility studies for a large-scale development and secure long-lead time items.

The final C\$350m raising funds the equity portion of the construction cost of our 5.0mtpa open pit project that is forecast to produce +600ktpa of spodumene concentrate. We note that our development scenario assumes a pre-production capital cost of C\$750m, and US\$350m of debt to fund the remaining capital cost. The raisings are all priced at C\$6.75, a 13% discount to the current share price.

Driver	Value (C\$m)	Price (C\$)	Shares (m)
Resource drill-out	100	6.75	14.8
Feasibility Studies	150	6.75	22.2
Construction	300	6.75	44.4
Total	550	6.75	81.5
Source: PMT. Macquarie Research. January 2023			

# Key risks reflect early stage

The most material risk to our base case valuation for PMT is our mining inventory assumption The most material risk to our base case valuation for PMT is our mining inventory assumption. We believe our estimate of 136mt @ 1.13% Li2O will prove conservative over time, however it does assume further drilling success and depth extensions to the current mineralisation defined over the 2.2km of strike.

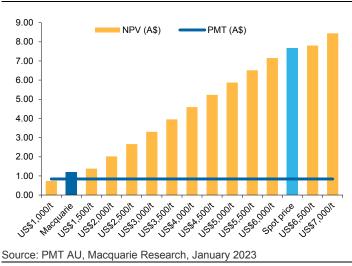
Our development scenario for the Corvette project is based on the metrics of Pilgangoora and Wodgina, which we believe are likely to accurately represent the scale of Corvette. Variances in capital cost, operating cost and throughput assumption present a key risk to our base case valuation should PMT look to develop Corvette on a smaller or larger scale.

# Long-term spodumene prices a key variable

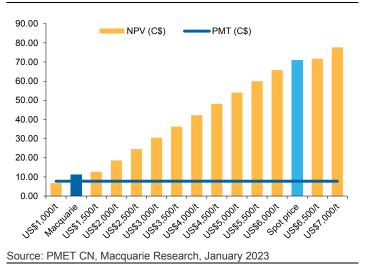
Current share price factoring in spodumene price of ~US\$1,000/t

Movements in spodumene prices present the other major risk to our base case valuation for PMT
and PMET. We outline below the impact of using flat spodumene prices over the life of our
development scenario for Corvette. We note that the current share prices are factoring in real
spodumene prices of ~US\$1,000/t over the life of the project





# Fig 14 PMET NPV based on various spodumene prices



# Corvette a large-scale development

# World-class discovery

World class spodumene potential at Corvette PMT has started to delineate what we believe will evolve into a world-class spodumene deposit at its Corvette project in Canada. The project is located 240km northeast of Nemaska in Québec in the James Bay region. The tenement package is 5.8km to the south of the Trans-Taiga Road and significant power line and hydro infrastructure.

The James Bay region of Québec is host to several major lithium discoveries that have resources and reserves already defined. The James Bay deposit is owned by Allkem (AKE AU, A\$11.94, Outperform, TP: A\$21.00, Hayden Bairstow) and contains a reserve of 37.2mt @ 1.3% Li<sub>2</sub>O. The other two major deposits are Rose and Whabouchi, which boast reserves of 27mt @ 0.85% Li<sub>2</sub>O and 27.9mt @ 1.33% Li<sub>2</sub>O, respectively.

Drilling for spodumene only commenced in 2021 The first drilling program to test for spodumene mineralisation only occurred in 2021, with PMT completing a 15-hole program totalling 2,048m of drilling. Interestingly, the drilling program included only 5 holes on the CV Lithium trend and 10 holes on the Maven Copper-Gold-Silver trend. The best result from the first five lithium holes drilled in 2021 was 155.1m @ 0.94% Li<sub>2</sub>O and 117ppm  $Ta_2O_5$ .

# 74'01 1G-4 Mirage CORVETT PROPERT Renard Diamond Min James Bay Lithium Deposit Eleonore Gold Mine Rose Lithium Depo Whabouchi Lithium Deposit Troilus Gold Mine/Deposit Legend 1.2 000 000 Moblan Lithium Deposit Hydroelectric Installation es Bay Greenstone Belt

# Fig 15 Corvette property location

Source: PMT, January 2023

# Drilling in 2022 confirmed potential of Corvette

During 2022, a new cluster of outcropping pegmatites was identified at CV13 In 2022, PMT significantly increased exploration activity, including a major surface geological mapping program along the CV5 pegmatite corridor and planned regional mapping programs over the outcropping CV8, CV9, CV10 and CV12 pegmatites. During the year, a new cluster of outcropping pegmatites was identified at CV13, and we expect this area to become an increased focus of drilling in 2023.

In February 2022, PMT commenced a major drilling program focused on the CV5 pegmatite trend, which includes the CV1, CV2, CV5, CV6, CV7 and CV11 outcrops. Mineralisation has been defined over a strike length of 2.2km by drilling over the 2022 program, with assay results from over 30 holes yet to be received. We outline some of the better results received to date below.

Best intersection of 159.7m @ 1.65% Li₂O and 193ppm Ta₂O₅

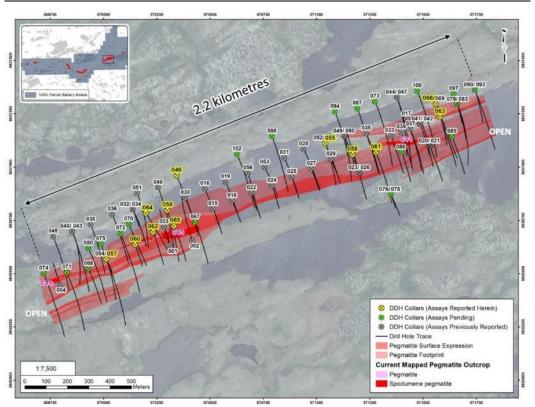
PMT has now completed 80 drill holes over the CV5 Pegmatite



- ⇒ CV22-030 152.8m @ 1.22% Li<sub>2</sub>O and 138ppm Ta<sub>2</sub>O<sub>5</sub>.
- $\Rightarrow$  CV22-044 86.2m @ 2.13% Li<sub>2</sub>O and 163ppm Ta<sub>2</sub>O<sub>5</sub>.
- $\Rightarrow$  CV22-017 40.7m @ 3.01% Li<sub>2</sub>O and 160ppm Ta<sub>2</sub>O<sub>5</sub>.

PMT has now completed 80 drill holes over the CV5 Pegmatite trend totalling 27,470m of drilling. A further 14 holes testing the CV13 Pegmatite cluster and one hole testing the CV12 Pegmatite cluster were completed as part of the 2022 drilling program. The bulk of the drilling completed to date has been over 100m drill spacing, with some areas drilled on a 50m spacing.

# Fig 16 Drilling in 2022 has extended the strike length to 2.2km at CV5



Source: PMT, January 2023

# Exploration activity to accelerate in 2023

Five drill rigs expected Dr on site by February ex 2023 ex

Drilling is expected to recommence in January with three drill rigs currently on site and PMT expecting to add a further two drill rigs in February. The primary focus of drilling will be to test for extensions to the defined 2.2km of strike at CV5 and undertake a major infill drilling program to reduce drill spacing.

To assist the drilling program, PMT is constructing a 19.3km winter road extending from the main Tans-Taiga Road to the CV5 Pegmatite. Post the winter season, we expect PMT to look to secure approvals to construct an all-weather access road to the site to enable drilling to continue through the year.

# Mining inventory key to our development scenario

Narrowing the drill spacing from 100m to 50m should enable PMT to classify the bulk of mineralisation at CV5 in the indicated resource category. We have calculated a mining inventory for the CV5 Pegmatite cluster based on drilling completed to date.

We visited the Corvette project in September 2022 We visited the Corvette project in September 2022, which provided greater clarity as to the strike potential of CV5, as well as the greater regional potential at Corvette. We calculate the average intercept of all drilling completed to date at CV5 at 61m @ 1.06% Li<sub>2</sub>O and 139ppm Ta<sub>2</sub>O<sub>5</sub>. However, our analysis suggests there are three main zones defined to date.

The CV5 outcrop is the The CV5 outcrop is the most prospective in terms of the width, continuity, and grade of the most prospective spodumene mineralisation. The CV1 outcrop appears to be an offset of the main CV5 pegmatite and is likely, in our view, to result in several parallel mineralised zones, albeit narrower than the CV5 outcrop area. The third main area is the gap between the CV5 and CV1 outcrops. We expect this area to be the focus of drilling during the winter as drill rigs can be positioned on the frozen lake. Our mining inventory is the combination of three separate volumetric calculations from the drilling completed to date at CV5 Outcrop, CV1 Outcrop and the Gap zones. We calculate a mineral inventory of 75.6mt for the CV5 Outcrop zone, which assumes an average CV5 Outcrop accounts for ~60% of our mining width of 80m, strike of 700m and a depth of 500m. For the CV1 outcrop we assume a strike of inventory 500m, average width of 60m and depth of 300m, while the Gap Zone mining inventory assumes a strike of 1.0km, width of 45m and depth of 300m. We have assumed a specific gravity (SG) of 2.7. We believe there is The grades of the drill holes released to date have averaged 1.06% Li<sub>2</sub>O. However, the CV5 zone

The grades of the drill holes released to date have averaged 1.06% Li<sub>2</sub>O. However, the CV5 zone has demonstrated materially higher grades than the Gap Zone or CV1 Outcrop. Accordingly, we have assumed a lower grade in these two zones compared to the CV5 Outcrop. We believe there is significant upside risk to our mining inventory assumption as mineralisation has yet to be closed off at depth, and the mineralised zones appear to be widening at depth at the CV5 Outcrop zone.

#### Fig 17 Mining inventory calculation

Mineralised zone	Strike	Depth	Width	Ore (mt)	Li <sub>2</sub> O (%)	Li <sub>2</sub> O (kt)
CV1 Outcrop	500	300	60	24.3	1.10%	267.3
Gap Zone	1,000	300	45	36.5	1.00%	364.5
CV5 Outcrop	700	500	80	75.6	1.20%	907.2
Total	2,200	364	60	136.4	1.13%	1,539.0
Source: PMT. Macquarie Re	esearch, Januarv 2	023				

#### Encouraging metallurgical test work

Dense Media Separation returned an overall recovery of 79%

significant upside risk

to our mining inventory

PMT released results from preliminary metallurgical test work on core drilled at Corvette. The results using Dense Media Separation (DMS) returned an overall recovery of 79% to produce a 5.8% Li<sub>2</sub>O spodumene concentrate with impressive low impurities of 0.6% Fe<sub>2</sub>O<sub>3</sub>. The test results confirmed earlier work using Heavy Liquid Separation (HLS).

# Fig 18 Spodumene concentrate produced from DMS test work



Corvette expected to be a large-scale development

# Our mining inventory puts Corvette in the league with Wodgina and Pilgangoora

We have outlined a development scenario for the Corvette project based on our mining inventory of 136.4mt @ 1.13% Li2O. Given the scale of the project, we have used the Pilgangoora and Wodgina projects, owned by Pilbara Minerals (PLS AU, A\$3.93, Outperform, TP: A\$7.50, Hayden Bairstow) and Mineral Resources (MIN AU, A\$85.89, Outperform, TP: A\$127.00, Hayden Bairstow), respectively, as the basis for our development scenario.

Fig 19 Comparisons of reserves for	Wodgina and Pilgangoora v	s our mining inventory
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Project	Ore (mt)	Grade (Li2O)	Li2O (kt)
Wodgina	147.0	1.20%	1,766
Pilgangoora	159.2	1.19%	1,887
Corvette	136.4	1.13%	1,539

Pilgangoora is currently operating with a throughput capacity of 5.0mtpa, although this will be expanded to 7.2mtpa as part of the P1000 expansion. We estimate PLS has spent ~A\$800m on capital since development of Pilgangoora began, which includes capitalised production costs and working capital, with the total spend to achieve the 1.0mtpa spodumene production rate likely to exceed A\$1.5b.

MIN has not disclosed the total capital expenditure for Wodgina; however, we estimate a spend of A\$850m to achieve the 750ktpa spodumene production capacity. Our production forecasts assume a 5.4mtpa throughput rate will deliver spodumene production of 820ktpa @ 5.7% Li<sub>2</sub>O, above the stated 750ktpa @ 6.0% name plate capacity.

# Production is likely by 2028

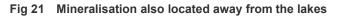
First production at least five years away Given PMT has yet to release a maiden resource for Corvette, we believe that first production for the project is still likely to be some way off. Assuming the maiden resource is released by March 2023, we have allowed a further twelve months for PMT to complete a pre-feasibility study and release a maiden reserve. We note that an upgrade to the resource to incorporate the 2023 infill drilling program is also likely over the year.

The release of the PFS should enable PMT to commence securing the approvals for the development. We have assumed this process will take two years, during which time PMT is assumed to complete a full bankable feasibility study.

Fig 20 CV5 outcrop located adjacent to the lake



Source: Macquarie Research, January 2023





Source: Macquarie Research, January 2023

We assume first spodumene production by April 2028 Our base case allows for a two-year construction phase, delivering first spodumene production by April 2028. The extended approvals process reflects the need to secure both Quebec state and Canada Federal approvals as draining of the shallow lakes will be required to develop the large-scale open pits required to extract the shallow mineralisation at Corvette. We note that the State and Federal approvals secured by the Rose and Whabouchi spodumene projects provide some certainty that the approvals can be secured through the existing processes.

#### Fig 22 First production likely in just over five years

Development timeline	Date
Maiden Resource	March 2023
Pre-Feasibility Study (PFS)	March 2024
Maiden Reserve	March 2024
Bankable/Definitive Feasibility Study (B/DFS)	September 2025
Final Investment Decision (FID) – post approvals	March 2026
First spodumene production	April 2028
Source: PMT, Macquarie Research, January 2023	

# Corvette has the potential to produce +600ktpa

We assume a process plant throughput rate of 5.0mtpa Our development scenario for the Corvette project is based on our mining inventory assumption for the CV5 Pegmatite cluster. We assume a process plant throughput rate of 5.0mtpa, a similar scale to Pilgangoora and Wodgina. The strip ratio is expected to be modest given the size of the outcrops at CV5, however we have assumed a gradual increase over the life of the project as the open pits get deeper.

Our flat grade profile is conservative in our view as PMT is likely to target higher-grade zones around CV5 in the early years of the development. Furthermore, smaller higher-grade targets as evidenced at CV13, could also provide early higher-grade ore to the project. Our flat grade profile translates to an annual spodumene production rate of 620ktpa.

6.000

5,000

4,000

3.000

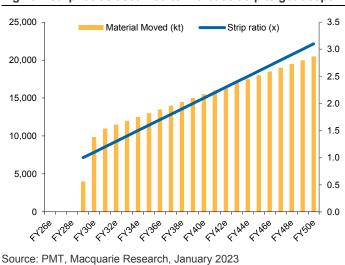
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1 000

0

\$720e

£7280



# Fig 23 Strip ratios assumed to increase as pits get deeper

Our development scenario assumes pre-production capex of C\$750m, which covers the cost of the processing plant, open pit preparation, including pre-strip, mine site camp and haulage infrastructure, including port a storage shed. Our capital cost estimate also incorporates 25% cost contingency, off an original capital base of C\$600m.

Source: PMT, Macquarie Research, January 2023

We assume a life of mine AISC of US\$710/t in our development scenario for Corvette. The key assumptions are a material movement cost of C\$5/t, processing, and general site costs of C\$15/t and C\$10/t, respectively. Trucking and port costs are assumed to total C\$105/t with shipping cost of C\$135/t. Should PMT be able to secure local processing capacity within Quebec we would expect total costs to be materially lower than our base case.

Our development

C\$750m

scenario assumes pre-

production capex of

1.60%

1.40%

1.20%

1.00%

0.80%

0.60%

0.40%

0 20%

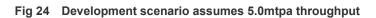
0.00%

F1480

£750e

F7460

Grade (%)



Total Ore Mined (kt)

# Strong regional exploration pedigree

# Belt scale exploration potential

The Corvette project consists of 417 mineral claims that cover an area of 21,375 hectares. The tenements are broken down into five main areas, Corvette Main, Corvette East, FCI East, FCI West, Deca-Goose and Felix. PMT acquired the Corvette tenement package between July 2016 and February 2022 from various parties. There remains a 2% royalty to the previous owners of most tenements.

Previous exploration in the region focused on the Gold Exploration and Maven Copper-Gold-Silver trends. Drilling from prior owners successfully defined gold and copper mineralisation across the tenement package in volcanogenic massive sulphides, orogenic gold geological settings as well as PGEs and numerous pegmatites.

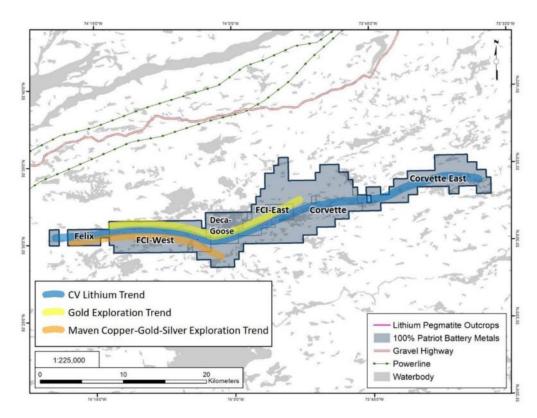
Early-stage lithium exploration occurred in 2016

Much of the Corvette

project is unexplored

Gold exploration commenced in the late 1950s, however in 1997 consolidation of land positions by Virginia Gold Mines resulted an increase in exploration drilling, highlighted by an intersection of 7m @ 10.5gt in 2007. In 2016, PMT (then called 92 Resources) undertook some early-stage activity having acquired tenements in the Corvette main area. The work confirmed spodumene bearing mineralisation at the Corvette (CV1) pegmatite.

# Fig 25 Corvette property location



Source: PMT, January 2023

# Regional geology and mineralisation

The Corvette tenements are located within the Lac Guyer Greenstone Belt, which is a subset of the larger La Grande Greenstone Belt. Lithium mineralisation at Corvette is hosted within quartz-feldspar pegmatites, that normally are outcropping at surface. These outcrops have been described as "whale-back" landforms.

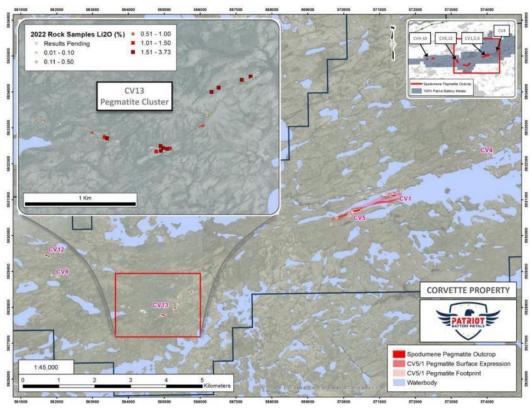
Spodumene is the dominant lithium bearing mineral Importantly sampling has confirmed that spodumene is the dominant lithium bearing mineral, accounting for 98-99%, with only minor amounts of petalite and lepidolite. Most mineralised intersections also contain tantalum; however, its importance will depend on PMT's preferred process route.

CV13 was discovered following a sample of 3.73% Li<sub>2</sub>O

### CV13 cluster offers significant upside to our base case

During 2022, two major surface discoveries were made. In June, PMT announced the discovery of new spodumene bearing outcropping pegmatites 150m southwest of CV5 and 200m along strike from CV3. In August, a new pegmatite cluster, named CV13, was discovered following a sample of 3.73% Li<sub>2</sub>O.

Our mining inventory assumption for Corvette is based solely on the drilling completed to date around the CV5 and CV1 outcrops. The delineation of resources at CV13 or the other regional targets identified by outcrops at CV8, CV9 or CV12, present upside risk to our development scenario for Corvette.





Source: PMT, January 2023

#### **Regional potential is significant**

Outcropping strike lengths of 400m at CV9

Regional exploration potential accounts for 9% of our NPV PMT has only undertaken surface mapping of outcropping spodumene bearing pegmatites for the regional targets away from the CV5 trend. Outcropping strike lengths of 400m at CV9 and 250m at CV8 have bene identified, which is in addition to the 2.3km of combined outcropping strike identified over the CV13 cluster.

To date, only 5km of the 25km of the CV Lithium trend has been sampled for outcropping pegmatite mineralisation. We believe there is significant regional potential for additional discoveries across the entire CV Lithium trend. Importantly all discoveries to date are from outcrops.

Further drilling is likely to provide greater clarity as to the potential size of the main lithium bearing structures at depth and along strike where outcrops are not visible. The bulk of our valuation for PMT reflects our development scenario for the CV5 Pegmatite Cluster. Our regional exploration valuation of A\$233 (C\$212m) incorporates some the regional potential of the Corvette tenement package.

# Board and Management

### **Board of Directors**

#### Blair Way – President and Chief Executive Officer

Blair Way boasts over 30 years' experience in the resources and construction industry in Australia, North America, and Europe. Prior to joining PMT, he was President and Chief Executive Officer of Leading-Edge Minerals. He has also held leadership roles at Strike Graphite and Aguila American Gold. Blair was previously Project Manager, Non-Ferrous Group for Hatch Associates and Project Director for Queensland Nickel in Townsville for BHP Group.

#### Ken Brinsden – Non-Executive Chairman

Ken Brinsden is a Mining Engineer with ~30 years' experience in surface and underground mining operations. Prior to joining PMT, he was Managing Director and Chief Executive Officer of Pilbara Minerals, where he led the company from 2016 to 2022, advancing the company from exploration into production. Over the course of his career, he held senior management or leadership roles with Atlas Iron, Iluka Resources, GoldFields, Central Norseman Gold Corporation, Normandy Mining and WMC Resources.

#### Dusan Berka – Executive Director and Chief Financial Officer

Dusan Berka has ~50 years of experience in international business in North America and Europe, largely in corporate governance, financing, marketing, and administration of public companies. He has served as a director of various listed companies on the TSX, TSX Venture Exchange and NASDAQ.

#### Jon Evensen – Non-Executive Director

Jon Evensen is a private investor with ~10 years' experience in investment banking and investment management focused on natural resources. He expanded the global metals & mining portfolio at Luminus Management. Prior to Luminus Management, he worked at Hedge Fund Millennium.

#### Brian Jennings - Non-Executive Director

Brian Jennings is a Chartered Accountant and Geologist with ~30 years' experience in senior financial executive roles and as a corporate restructuring professional. He is currently the Chief Financial Officer of Generation Mining Limited.

#### **Senior Management**

#### Blair Way - President and Chief Executive Officer

As above

#### Darren Smith – Vice President of Exploration

Darren Smith has ~16 years' experience in the mining industry, focused largely on exploration and project study work. His previous experience is across several different commodities. Darren and his team discovered one of the world's largest Rare Earth Elements deposits at Ashram.

#### Kelly Pladson – Corporate Secretary

Kelly Pladson has provided corporate governance and regulatory compliance services to many TSX Venture and CSE listed companies since 2009.

#### Alix Drapack – Vice President of Environment, Social and Governance

Alix Drapack is an engineer with over 30 years' experience in managing mining, environmental and transport/infrastructure projects in Canada and the USA. Prior to joining PMT, she was the Chief Sustainability Officer for Osisko Mining.

#### Andrée Drolet – Senior Advisor Environment and Planning

Andrée Drolet is a mining engineer with 23 years' experience in the mining industry working largely in mine waste and water management, mine closure and permitting. Prior to joining PMT, she was Environmental Director of Osisko Mining.

# **ESG** Considerations

ESG commentary provided by Macquarie's ESG team, Anita Stanley (Anita.Stanley@macquarie.com)

#### Governance

#### Board

As per the prospectus, the PMT Board comprises three non-executive directors and two executive directors (CEO and CFO); all the non-executive directors are independent. There are no female representatives on the PMT board.

#### Fig 27 Board Overview

Company	Board member details	Number of Directors (including CEO)	% of Independent Directors (excluding CEO & CFO)	% of Women on the Board	Average Tenure (in years)	No. of directors that hold other directorships in listed companies
Patriot Battery Minerals	PMT board	5	100%	0%	2.3	2
Source: Cor	Source: Company data, Macquarie Research, January 2023					

#### Remuneration

PMT's remuneration structure consists of consulting/ management fees plus an options plan.

#### Fig 28 CEO remuneration structure as at Nov 2021

nstrument	Performance Period	Vesting conditions	Value
Cash payment	Annual basis	n/a	Management/ consulting fees. Due to the relatively small size of PMT, limited cash resources, and the early stage and scope of the Company's operations, PMT noted that NEOs receive limited salaries relative to industry standards
Cash payment	Annual basis	Not disclosed	
Options	Two/Three years	The Board does not employ a prescribed methodology when determining the grant or allocation of Options to NEOs	CEO was granted 66,666 options in 2021
	ash payment	ash payment Annual basis ash payment Annual basis options Two/Three years	ash payment Annual basis Not disclosed Pptions Two/Three years The Board does not employ a prescribed methodology when determining the grant or allocation

#### Social

#### **Human Capital Management**

As a small organisation, PMT does not provide details on the diversity of the organisation. Of the nine executives listed on the PMT website (including board members), there are three female employees.

PMT does not disclose safety or injury metrics.

#### Modern slavery

PMT does not publish a Modern Slavery Statement as its annual consolidated revenue is below the reporting requirement threshold of A\$100m.

#### **Community engagement**

As a miner, PMT's relations with its local community and key stakeholders are a critical business activity.

#### Environmental

As PMT is a lithium exploration company, it is likely to have low GHG emissions, although there is little disclosure in this area.

In its Prospectus, PMT noted that the Property does not overlap any sensitive environmental areas or parks, or historical sites.

Other environmental risks include tailings management, water consumption, biodiversity, air quality, waste and hazardous materials management and mine closure plans.

#### Energy usage

PMT has noted that the Corvette project is located only 15km from high-voltage power lines connected to the La Grande-4 hydro power scheme (one of the largest in the world), providing the potential for 'green lithium' to be produced.

### Important disclosures:

#### **Recommendation definitions**

Macquarie - Asia and USA Outperform - expected return >10% Neutral - expected return from -10% to +10% Underperform – expected return <-10%

#### Macquarie – Australia/New Zealand

Outperform – expected return >10% Neutral - expected return from 0% to 10% Underperform - expected return <0%

Note: expected return is reflective of a Medium Volatility stock and should be assumed to adjust proportionately with volatility risk

#### Volatility index definition\*

This is calculated from the volatility of historical price movements

Very high-highest risk - Stock should be expected to move up or down 60-100% in a year investors should be aware this stock is highly speculative.

High - stock should be expected to move up or down at least 40-60% in a year - investors should be aware this stock could be speculative.

Medium – stock should be expected to move up or down at least 30-40% in a year.

Low-medium - stock should be expected to move up or down at least 25-30% in a year.

Low - stock should be expected to move up or down at least 15-25% in a year. Applicable to select stocks in Asia/Australia/NZ

#### Recommendations - 12 months

Note: Quant recommendations may differ from Fundamental Analyst recommendations

(for global coverage by Macquarie, 3.62% of stocks followed are investment banking clients) (for global coverage by Macquarie, 4.59% of stocks followed are investment banking clients) (for global coverage by Macquarie, 0.00% of stocks followed are investment banking clients)

#### Patriot Battery Metals (PMT AU/PMET CN)

#### **Financial definitions**

All "Adjusted" data items have had the following adjustments made:

Added back: goodwill amortisation, provision for catastrophe reserves, IFRS derivatives & hedging, IFRS impairments & IFRS interest expense Excluded: non recurring items, asset revals, property revals, appraisal value uplift, preference dividends & minority interests

EPS = adjusted net profit / efpowa\*

ROA = adjusted ebit / average total assets ROA Banks/Insurance = adjusted net profit /average total assets

ROE = adjusted net profit / average shareholders funds Gross cashflow = adjusted net profit + depreciation \*equivalent fully paid ordinary weighted average number of shares

All Reported numbers for Australian/NZ listed stocks are modelled under IFRS (International Financial Reporting Standards)

# Recommendation proportions - For quarter ending 30 Sep 2022

	AU/NZ	Asia	USA
Outperform	61.09%	64.27%	70.97%
Neutral	32.76%	23.34%	26.88%
Underperform	6.14%	12.39%	2.15%

#### AKE AU vs ASX 100, & rec history



PLS AU vs ASX 100, & rec history



#### MIN AU vs ASX 100, & rec history



(all figures in AUD currency unless noted)

#### PMET CN vs TSX, & rec history



(all figures in AUD currency unless noted)

#### PMT AU vs Small Ordinaries. & rec history



# Source: FactSet, Macquarie Research, January 2023

### 12-month target price methodology

AKE AU: A\$21.00 based on a 50/50 Blend of 5.0x forward EV/Ebitda and NPV methodology

Note: Recommendation timeline - if not a continuous line, then there was no Macquarie coverage at the time or there was an embargo period.

PLS AU: A\$7.50 based on a 50/50 Blend of 5.0x forward EV/Ebitda and NPV methodology

MIN AU: A\$127.00 based on a Blend 50% NPV/50% EV/Ebitda methodology

PMET CN: C\$11.10 based on a 1.0x NPV methodology

PMT AU: A\$1.20 based on a 1.0x NPV methodology

#### Company-specific disclosures:

PMT AU: A Macquarie analyst(s) involved with the preparation of this research has, in the past 12 months, visited material operations of Patriot Battery Metals Inc. The company furnished local transportation as part of this site visit, which was authorized in adherence with Macquarie policy requirements A Macquarie analyst(s) involved with the preparation of this research has, in the past 12 months, visited material operations of Patriot Battery Metals Inc. The company furnished local transportation as part of this site visit, which was authorized in adherence with Macquarie policy requirements

AKE AU: Macquarie Group Limited together with its affiliates owns a net long of 0.5% or more of the equity securities of Allkem Ltd Macquarie Group Limited together with its affiliates beneficially owns 1% or more of the equity securities of Allkem Ltd. PLS AU: A Macquarie analyst(s) involved with the preparation of this research has, in the past 12 months, visited material operations of Pilbara Minerals Ltd. The company furnished local transportation as part of this site visit, which was authorized in adherence with Macquarie policy requirements. Macquarie Group Limited together with its affiliates beneficially owns 1% or more of the equity securities of Pilbara Minerals Ltd. Macquarie Group Limited together with its affiliates owns a net long of

#### Macquarie Research

0.5% or more of the equity securities of Pilbara Minerals Ltd **MIN AU**: Macquarie Group Ltd., one of its subsidiaries or affiliates managed or co-managed a public offering of securities of Mineral Resources Ltd. in the past 12 months, for which it received compensation. Macquarie Group Limited together with its affiliates beneficially owns 1% or more of the equity securities of Mineral Resources Ltd. Macquarie Group Limited together with its affiliates of 0.5% or more of the equity securities of Mineral Resources Ltd.

A reference to "Macquarie" is a reference to the entity within the Macquarie Group of companies (comprising Macquarie Group Limited and its worldwide affiliates and subsidiaries) that is relevant to this disclosure.

Important disclosure information regarding the subject companies covered in this report is available publicly at

www.macquarie.com/research/disclosures. Clients receiving this report can additionally access previous recommendations (from the year prior to publication of this report) issued by this report's author at <a href="https://www.macquarieinsights.com">https://www.macquarieinsights.com</a>.

### Target price risk disclosures:

**AKE** AU: Any inability to compete successfully in their markets may harm the business. This could be a result of many factors which may include geographic mix and introduction of improved products or service offerings by competitors. The results of operations may be materially affected by global economic conditions generally, including conditions in financial markets. The company is exposed to market risks, such as changes in interest rates, foreign exchange rates and input prices. From time to time, the company will enter into transactions, including transactions in derivative instruments, to manage certain of these exposures.

**PLS AU:** Any inability to compete successfully in their markets may harm the business. This could be a result of many factors which may include geographic mix and introduction of improved products or service offerings by competitors. The results of operations may be materially affected by global economic conditions generally, including conditions in financial markets. The company is exposed to market risks, such as changes in interest rates, foreign exchange rates and input prices. From time to time, the company will enter into transactions, including transactions in derivative instruments, to manage certain of these exposures.

**MIN AU:** Any inability to compete successfully in their markets may harm the business. This could be a result of many factors which may include geographic mix and introduction of improved products or service offerings by competitors. The results of operations may be materially affected by global economic conditions generally, including conditions in financial markets. The company is exposed to market risks, such as changes in interest rates, foreign exchange rates and input prices. From time to time, the company will enter into transactions, including transactions in derivative instruments, to manage certain of these exposures.

**PMET CN:** Any inability to compete successfully in their markets may harm the business. This could be a result of many factors which may include geographic mix and introduction of improved products or service offerings by competitors. The results of operations may be materially affected by global economic conditions generally, including conditions in financial markets. The company is exposed to market risks, such as changes in interest rates, foreign exchange rates and input prices. From time to time, the company will enter into transactions, including transactions in derivative instruments, to manage certain of these exposures.

**PMT AU:** Any inability to compete successfully in their markets may harm the business. This could be a result of many factors which may include geographic mix and introduction of improved products or service offerings by competitors. The results of operations may be materially affected by global economic conditions generally, including conditions in financial markets. The company is exposed to market risks, such as changes in interest rates, foreign exchange rates and input prices. From time to time, the company will enter into transactions, including transactions in derivative instruments, to manage certain of these exposures.

#### Sensitivity analysis:

Clients receiving this report can request access to a model which allows for further in-depth analysis of the assumptions used, and recommendations made, by the author relating to the subject companies covered. To request access please contact <u>insights@macquarie.com</u>.

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# Research

#### Head of Equity Research

Kristen Edmond	(61) 409 328 648		
Retail / Consumer / Food & Bev			
Ross Curran	(61) 434 560 822		
Energy			
Mark Wiseman	(61) 418 375 283		
ESG			
Anita Stanley	(61) 437 435 927		
Financials			
Banks			
Victor German	(61) 427 140 218		
Josh Freiman	(61) 419 210 421		
Insurance and Diversified Final	ncials		
Andrew Buncombe	(61) 437 411 512		
Fund Managers			
Brendan Carrig	(61) 428 082 614		
Healthcare			
David Bailey	(61) 439 579 336		
Industrials			
Capital Goods			
John Purtell	(61) 410 499 088		
Infrastructure			
Ian Myles	(61) 412 171 588		
Transport & Gaming			
David Fabris	(61) 419 751 559		

John Purtell	(61) 410 499 088
Peter Steyn	(61) 409 795 233
Resources	
Hayden Bairstow	(61) 439 889 321
Andrew Bowler	(61) 448 433 736
Jon Scholtz	(61) 400 036 617
Adam Baker	(61) 467 070 016
Real Estate	
Stuart McLean	(61) 420 381 316
Caleb Wheatley	(61) 428 831 714
Telco/Media/Tech	
Darren Leung	(61) 429 170 059
Wei Sim	(61) 428 536 756
Agriculture	
David Pobucky	(61) 408 301 487
Utilities	
lan Myles	(61) 412 171 588
New Zealand	
Stephen Hudson	(64) 2149 3021
Warren Doak	(64) 2189 0086
Nick Mar	(64) 210 755 053
Tom Deacon	(64) 2155 4299

Emerging Leaders – Industrials				
Tim Lawson Mitchell Sonog Brendan Carrig Marni Lysaght Rachael Harwo	I	(61) 451 989 587 (61) 434 142 372 (61) 428 082 614 (61) 421 745 912 (61) 400 815 416		
Equity Stra	tegy			
Matthew Brook	S	(61) 439 300 129		
Quantitativ	Quantitative			
John Conomos     (61) 412 621 678       Richard Lawson     (61) 425 310 298       Data Services     (61) 425 310 298				
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#### Email addresses

FirstName.Surname@macquarie.com

# Sales

Equities	
Dan Ritchie (Australia)	(612) 8232 3124
Dave Roberton (New Zealand)	(649) 363 1498
Sales	
Daniel Pittorino (Head of AU Sales)	(612) 8237 0905
Kurt Dalton (Head of Property	
& Hedge Funds)	(612) 8232 5943
Gavin Maher (Resources)	(612) 8232 4151
Dominic Smith (Sydney)	(612) 8237 0907
Matt Buskariol (Sydney)	(612) 8232 4012
Phil Zammit (Head of	
Emerging Leaders)	(612) 8232 3122
Brad Seward (Emerging Leaders)	(618) 9224 0909
Chris Bryan (Desk Head - Melbourne)	(613) 9635 8271
Martin Bell (Melbourne)	(613) 9635 9323
Alex Williams (Desk Head - Asia)	(852) 3922 5746
Alana Tapley (Hong Kong)	(852) 3922 5934
Andrew Haigh (Desk Head - London)	(44 20) 3037 4843
Jack Whiting (London)	(4420) 3037 4831
Daniel Raats	
(Desk Head - New York)	(1 212) 231 2571
Andrew Marson (New York)	(1 212) 231 2491
Stuart Murray (Derivatives)	(612) 8232 5090
Dominic Prowse (Global)	(612) 8232 8518
Sean Bird (New Zealand)	(649) 363 1407
Nicholas Phythian (New Zealand)	(649) 363 1403

Sales Trading	
Tim Shaw (Head of Execution)	(612) 8232 4386
Andrew Donald (Melbourne)	(613) 9635 8270
David Harris (Melbourne)	(613) 9635 8595
Marianna Ktenas (Sydney)	(612) 8237 2833
Sam Kanaan (Sydney)	(612) 8237 2835
Max Indge (Sydney)	(612) 8232 5118
Sam Sheffield (Auckland)	(649) 363 1431
Mike Keen (London)	(44 20) 3037 4905
Michael Dunne (New York)	(1 212) 231 2531
Michael Khalife (Emerging Leaders)	(612) 8232 8893
Electronic Execution	
Valerie Kingsmill	(612) 8237 2230
Darren Miller	(612) 8232 8261
David Manio	(612) 8232 3328
Jason Scally	(612) 8232 5552
Portfolio Trading	
Garth Leslie	(612) 8232 9982
Fikret Alakavuk	(612) 8232 7586
Ethan Perrett	(612) 8237 9586
Block Trading	
Harry Boghossian (Head of	(0.10) 0007 5450
Block Trading)	(612) 8237 5456
Anthony Goonan	(612) 8232 5935
Tim Shaw	(612) 8232 4386

### quity Finance

Amanda Davies (Equity Finance)	(612) 8232 0095		
Syndication			
Paul Staines	(612) 8232 7781		
Angus Firth	(612) 8232 4039		
Corporate Access			
Julie Loring	(612) 8232 7543		
Katherine Ridley	(612) 8232 7784		
Transition Management & Portfolio Solutions			
Greg Mann	(612) 8232 1820		
Mick Larkin	(612) 8232 0639		
Mark Levinson	(612) 8232 5245		
Michael StJohn	(612) 8232 3098		
Chris Hudson (Stock Borrow & Loan)	(612) 8232 7664		