



28 July 2021

Presentation on Q4 June FY21 Quarterly Report and audio webcast

Mr Craig Jetson, Managing Director & CEO, will brief analysts and institutional investors on the Q4 June FY21 Quarterly Report at 11:00 am Australian Eastern Standard Time (UTC + 10 hours) on Wednesday 28 July 2021.

Analysts and institutional investors

Analysts and institutional investors can register for the briefing at https://s1.c-conf.com/DiamondPass/10014896-sj84f3.html.

Shareholders and media

A live audio webcast of the briefing will be available on St Barbara's website at stbarbara.com.au/investors/webcast or by <u>clicking</u> <u>here</u>. The audio webcast is listen-only and does not enable questions. The audio webcast will subsequently be made available on the website.

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Q4 June FY21 Quarterly Presentation

Craig Jetson Managing Director and CEO 28 July 2021

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The Company estimates its reserves and resources in accordance with the Australasian Code for Reporting of Identified Mineral Resources and Ore Reserves 2012 Edition ("JORC Code"), which governs such disclosures by companies listed on the Australian Securities Exchange.

Non-IFRS financial information: We supplement our financial information reporting determined under International Financial Reporting Standards ("IFRS") with certain non-IFRS financial measures, including cash operating costs. Details of these are set out in the Supplement.

Financial figures are in Australian dollars unless otherwise noted. Financial year is 1 July to 30 June. This presentation is not audited.

Unless otherwise noted, information in this report that relates to Mineral Resources or Ore Reserves is extracted from the report titled 'Ore Reserves and Mineral Resources Statements 30 June 2020' released to the ASX on 24 August 2020. Full details of recent exploration results in ASX release 28 July 2021 'Q4 June FY21 Quarterly Report'.

Australian Securities Exchange (ASX) Listing code "SBM" American Depositary Receipts (ADR OTC code "STBMY") through BNY Mellon, www.adrbnymellon.com/dr_profile.jsp?cusip=852278100

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Acknowledgement of Country

We at St Barbara acknowledge the First Nations people of the ancestral lands on which we operate in Australia, Canada and Papua New Guinea. We pay our respects to all First Nations people, and to Elders past, present, and emerging.

We recognise the unique cultural heritage, beliefs and connection to these lands, waters and communities held by First Nations people. We also recognise the importance of the continued protection and preservation of cultural, spiritual and educational practices.

Because we value treating all people with respect, we are committed to building successful and mutually beneficial relationships with the First Nations peoples throughout our areas of operation.



Safety always



TOTAL RECORDABLE INJURY FREQUNCY RATE (TRIFR)¹

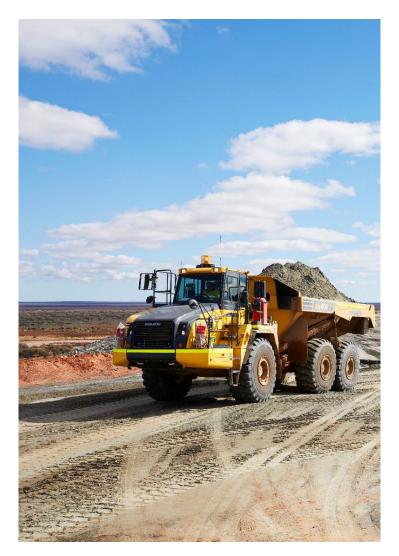
SafetyAlways

Zero harm is always our target. Zero harm to all people as we responsibly operate our assets to their full potential. This focus on safety guides everything we do.

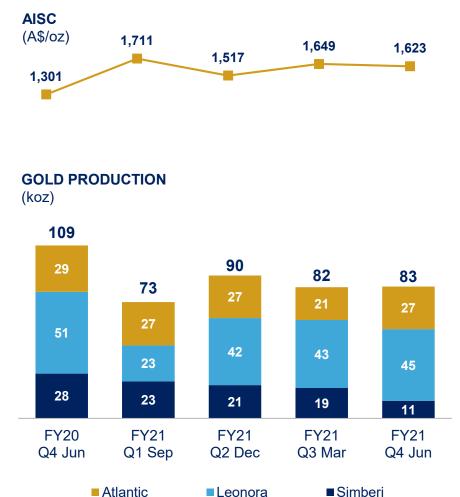
1. Total Recordable Injury Frequency Rate (12 month avg.), total recordable injuries per million hours worked

Key achievements Q4 FY21

- 1. Pathway to establishing 3 mines each with greater than 10 years of operating life:
 - Leonora Province Plan: update added ~1.4 million ounces to Mineral Resource
 - **Simberi Sulphide Feasibility Study**: Progressed the Social and Environmental Impact Statement
 - Atlantic Operations: Record mill throughput
 - Improved operational performance at Atlantic and Leonora operations
 - Strong operational cash contribution of A\$100 M



Consolidated Q4 FY21 Results



Figures displayed to nearest thousand ounces. Reported ounces in table in Appendix.

Q4 FY21 AISC

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- Consolidated A\$1,623/oz (Q3: A\$1,649/oz)
- Atlantic A\$1,011/oz (Q3: A\$1,128/oz)
- Leonora A\$1,663/oz (Q3: A\$1,555/oz)
- Simberi A\$2,964/oz (Q3: A\$2,426/oz)

Q4 FY21 Production

Consolidated 83 koz (Q3: 82 koz)
Atlantic 27 koz (Q3: 21 koz)
Leonora 45 koz (Q3: 43 koz)
Simberi 11 koz (Q3: 19 koz)

Consolidated Q4 FY21 production included consistent operational performance throughout the quarter at Atlantic and Leonora, despite the impact due to the fatality and pipe damage at Simberi.

Update on DSTP' at Simberi

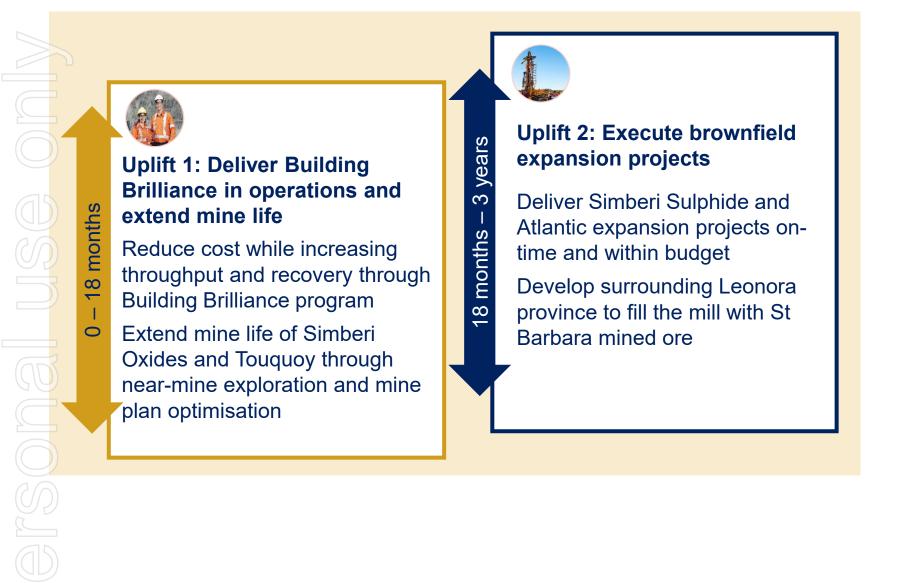
- Mineral Resource Authority (MRA) has granted conditional approval for mining to recommence, with production to ramp up over the weeks ahead
- Independent assessment conducted into pipeline failure concluded likely cause of failure to be a localised landslide
- New pipeline to be constructed in Q2 Dec FY22
- Processing plant restart expected late Q2 Dec FY22



Operation			Production (koz)	AISC (A\$/oz)		Capex (\$AM)
					Sustaining	Growth
Atlantic Operations			65 – 85	1,305 – 1,515 ¹	15 – 20	30 – 40
Leonora Operations			180 – 200	1,605 – 1,720	65 – 75	15 – 20
Simberi Operations			60 - 70	2,465 – 2,650 ²	15 – 20	25 – 35
Consolidated			305 – 355	1,710 – 1,860	95 – 115	70 – 95
		FY22 Prod Indicative Quarterly (0 to C\$1,440 per ounce at 50 to US\$1,990 per ounce	
	23%	25%	24%	289	%	
	Q1 Sep	Q2 Dec	Q3 Mar	Q4 J	lun	

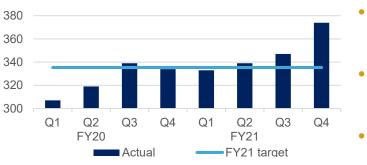
Building Brilliance at St Barbara and future brownfield growth

Delivered A\$41 M of savings in FY21



Building Brilliance – Atlantic Operations

Mill throughput (tph) 22% improvement



Mill availability (%) 14% improvement

Recovery (%)

100%

100%									
95%			-	_	_	-	_		•
90%			_	_	_	_	_	_	
85%		_	_	_	_	_	_	_	
80%									1
	Q1	Q2 FY20	Q3	Q4	Q1	Q2 FY21	Q3	Q4	
			Actua	al	—	FY21 ta	rget		

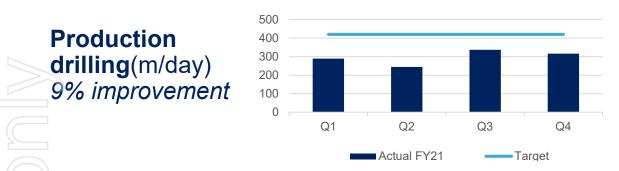
95% 90% 85% Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 FY20 FY21 FY21 FY21 FY21 target

- Implemented a larger gravity screen aperture, enabling better separation and debottlenecked the gravity circuit
- Modified the spray bar in the trommel to better screen fine material through the trommel screen panels
- Increased mill power draw to enable an increase in feed tonnes to the ball mill without negatively impacting on vibration
 - Optimised mill shutdown work to move from scheduled/ calendar based to condition based shutdowns
- Minor upgrades to the plant (gear spray system, ball mill feed chute) which reduced prior instances of unplanned

Downcomers installed in CIL tanks to increase residence time

Installed air spargers in CIL tank to increase dissolved oxygen concentration, resulting in increased recovery

Building Brilliance – Leonora Operations



Total material moved (kt/day) 44% improvement



Development Fronts (Nos.)



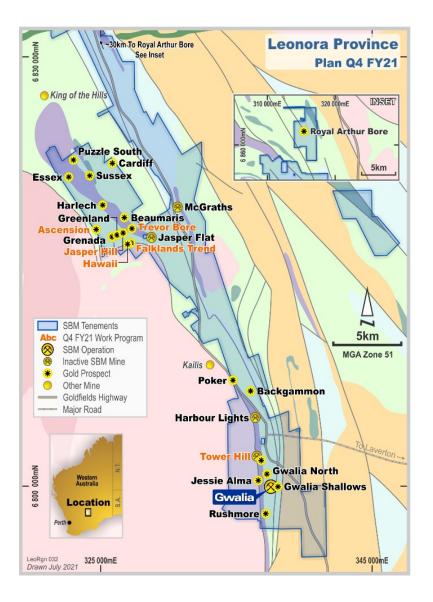
- Reduced the number of hole cleans and redrills by using "just in time" drilling for 'top level down' drilling in double and triple lift stopes
- Implementing WiFi underground has enabled teleremote drilling through shift changes increasing the utilisation of equipment
- Reduced total curing time for a stope by reducing the number of pours required to back fill a mined stope, resulting in shorter stope cycle time.
- Underground WiFi enabled implementation of better short term interval control by obtaining real time data on equipment utilisation to better coordinate equipment underground
- Replacing static cable bolts with self drilling anchors for ground support reduced development cycle time
- Using an Epiroc Boltec to reduce bolt installation time
- Improved development cut length by implementing alternative detonators to better utilise explosive properties to assist with blasting the face

Leonora Province

Work undertaken in Q4 has focussed on:

Geological interpretation and wire-framing for the Gwalia Shallows

- Completion of an RC drilling program on historical ore stockpiles at Tower Hill
- Commencing late in the quarter was an RC drill program testing Falklands Trend, Hawaii, Jasper Hill, Trevor Bore and Ascension



Update on Atlantic Permitting

Touquoy

- Increase waste rock storage at site final permits in place by Q3 Mar FY22
- Convert the Touquoy pit into a TSF expected to be in place by Q3 Mar FY22 required for FY23 processing

Beaver Dam

- Revised EIS (Environmental Impact Statement) currently in progress with Federal Government expected to be approved Q4 Jun FY22
 - In parallel Mining licence approval process is being conducted expected to be completed by end of Q3 Mar FY22
- After EIS is approved will apply for Industrial Approval which will allow commencement of construction and mining Q2 Dec FY23
- First ore expected to be delivered from Beaver Dam first half FY24

Fifteen Mile Stream

EIS submissions underway expected to be completed Q1 Sep FY23. First production expected FY25

Strong Q4 Performance

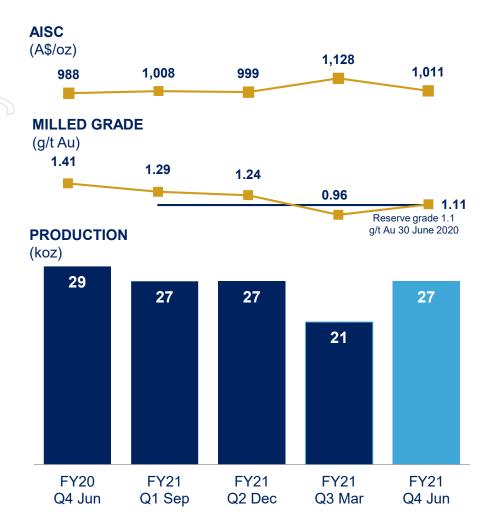
- Pathway to establishing 3 mines each with greater than 10 years of operating life:
 - Provided further **updates on Leonora Province Plan**
 - **Delivered SEIS addendum** on field studies for Simberi Sulphide Project
 - Completed **Feasibility Study** for Beaver Dam for internal review
 - Maintained the **improved operational performance** at Atlantic and Leonora Operations
 - Mineral Resource Authority has granted conditional approval for Simberi to recommence mining
 - **Operational cash contribution** of A\$100 M, further strengthening the balance sheet with A\$133 M of cash and A\$82 M of debt
 - **Delivered A\$41 M of Building Brilliance savings** and set the FY22 target of A\$60 M to A\$100 M in annualised cash contribution
 - Continue COVID-19 management work across the Company

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Supplementary slides



Atlantic Q4 FY21 Results



Q4 FY21 production

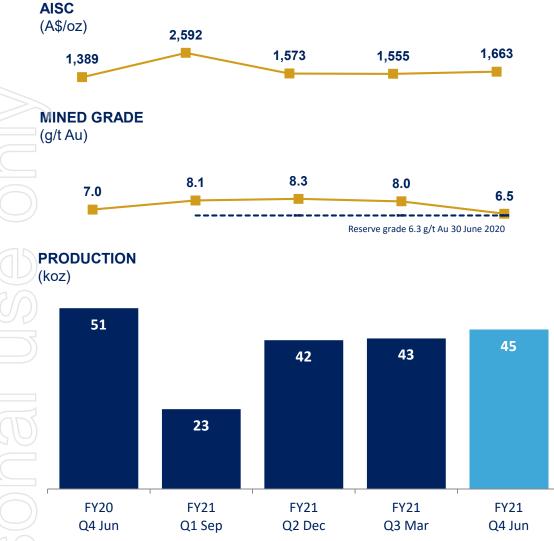
- 26,718 oz (Q3: 20,606 oz)
- AISC A\$1,011/oz (C\$956/oz) (Q3: A\$1,128/oz (C\$1,104/oz)

Production was 30% higher than Q3 Mar FY21 due to higher grade ore and increased ore mined from the open pit. For the quarter the mill achieved record throughput

Beaver Dam revised Environmental Impact Statement and second round of information requests were submitted in June 2021

- Production of between 65 to 85 koz
- AISC of A\$1,305 to A\$1,515/oz¹
- Sustaining capex of A\$15 M to A\$20 M
- Growth capex of A\$30 M to A\$40 M

Leonora Q4 FY21 Results



Q4 FY21 production

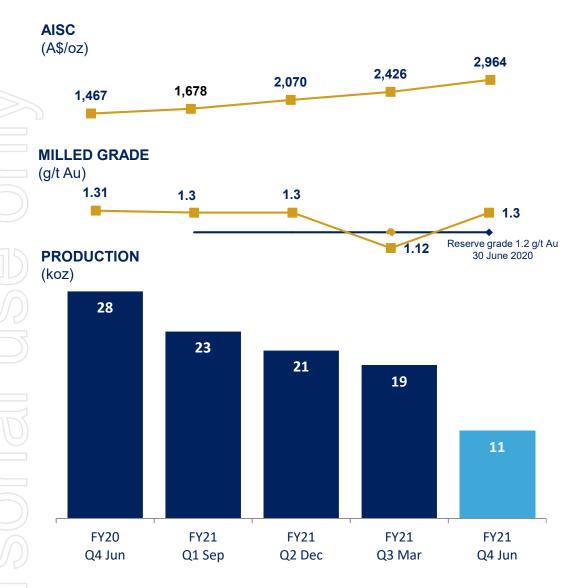
- 45,157 oz (Q3: 42,716 oz)
- AISC A\$1,663/oz (Q3: A\$1,555/oz)
- Mined grade of 6.5 g/t Au (Q3: 8.0 g/t Au)

June quarter performance highlighted improvements in ore mined (up 16% under new contractor), with mill throughput the highest since Q1 Sep FY16

Improved mine planning has increased mining fronts to 24 compared to 12 at the start of FY21. The number of development fronts is expected to increase to 28 by the end of FY22

- Production of between 180 to 200 koz
- AISC of A\$1,605 to A\$1,720/oz
- Sustaining capex of A\$65 M to A\$75 M
- Growth capex of A\$15 M to A\$20 M

Simberi Q4 FY21 Results



Q4 FY21 production

- 10,824 oz (Q3: 18,981 oz)
- AISC A\$2,964/oz (Q3: A\$2,426/oz)
- Milled grade at 1.30 g/t Au (Q3: 1.12 g/t Au)

Production was impacted by the shutdown of mining operations due to the fatality. In addition, routine inspection of the DSTP pipeline identified damage and operations ceased

A recovery plan is underway, incorporating corrective actions from the mining fatality and replacement of the DSTP pipeline. Mining at Simberi has been conditionally approved to recommence with ore stockpiled until milling restarts in Q2 Dec FY22.

- Production of between 60 to 70 koz
- AISC of A\$2,465 to A\$2,650/oz¹
- Sustaining capex of A\$15 M to A\$20 M
- Growth capex of A\$25 M to A\$35 M

Consolidated production, costs and guidance summary

Production Sumr Consolidated	nary	Year FY20	Q1 Sep FY21	Q2 Dec FY21	Q3 Mar FY21	Q4 Jun FY21	Year FY21	Guidance FY21	Guidance FY22
St Barbara's financia 1 July to 30 June	l year is	Year to 30 June 2020	Qtr to 30 Sep 2020	Qtr to 31 Dec 2020	Qtr to 31 Mar 2021	Qtr to 30 Jun 2021	Year to 30 June 2021	Year to 30 June 2021	Year to 30 June 2022
Production									
Atlantic	oz	106,663	27,226	26,693	20,606	26,718	101,243	100 to 110 koz	65 to 85 koz
Gwalia	oz	171,156	22,625	42,198	42,716	45,157	152,696	150 to 160 koz	180 to 200 koz
Simberi	oz	104,068	23,139	20,779	18,981	10,824	73,723	withdrawn	60 to 70 koz
Consolidated	oz	381,887	72,990	89,670	82,303	82,698	327,662	n/a	305 to 355 koz
Mined Grade								Milled grade	
Atlantic	g/t	0.93	0.95	0.91	0.71	0.91	0.88	1.33	
Gwalia	g/t	7.7	8.1	8.3	8.0	6.5	7.6	8.3	
Simberi	g/t	1.06	1.19	1.49	1.33	1.47	1.35	1.25	
Total Cash Opera	ating Costs	•							
Atlantic	A\$/oz	713	669	736	903	769	761	n/a	
Gwalia	A\$/oz	1,071	1,560	1,037	1,044	1,271	1,185	n/a	
Simberi	A\$/oz	1,482	1,481	1817	2,032	2,835	1,912	n/a	
Consolidated	A\$/oz	1,083	1,203	1,128	1,237	1,314	1,218	n/a	
All-In Sustaining	Cost								
Atlantic	A\$/oz	928	1,008	999	1,128	1,011	1,027	958 to 1,050 ¹	1,305 to 1,515 ²
Gwalia	A\$/oz	1,485	2,592	1,573	1,555	1,663	1,744	1,815 to 1,950	1,605 to 1,720
Simberi	A\$/oz	1,631	1,678	2,070	2,426	2,964	2,162	withdrawn	2,465 to 2,650 ³
Consolidated	A\$/oz	1,369	1,711	1,517	1,649	1,623	1,616	n/a	1,710 to 1,860

Hedging summary as at 28 July 2021

Financial YearVolume OuncesPrice \$/ozTypeDelivery scheduleDelivery scheduleAnnouncedJul 21 to Dec 2266,010C\$2,050European call optionsJul 2021 to Dec 22Monthly24 Feb 20201								
Jul 21 to Dec 22 66,010 C\$2,050 European call options Jul 2021 to Dec 22 Monthly 24 Feb 20201					Туре	Delivery		Announced
	\geq	Jul 21 to Dec 22	66,010	C\$2,050	European call options	Jul 2021 to Dec 22	Monthly	24 Feb 2020 ¹
]						
	J))							

Leonora Province

Indicative timeline for development

				FY22			FY23			FY24		
LGA / Other	Ore purchase / Tolling											
Gwalia Intermediates	Development & production											
Gwalia Shallows ¹	Feasibility & mine planning Development & production											
Jasper Region (open pit development)	Drilling, Feasibility & mine planning & permitting Development & production											
Tower Hill, Harbour Lights & Mill Expansion	Feasibility & mine planning & permitting Development & production											
Surface stockpiles	Production		Varia	ble grac	le = =							



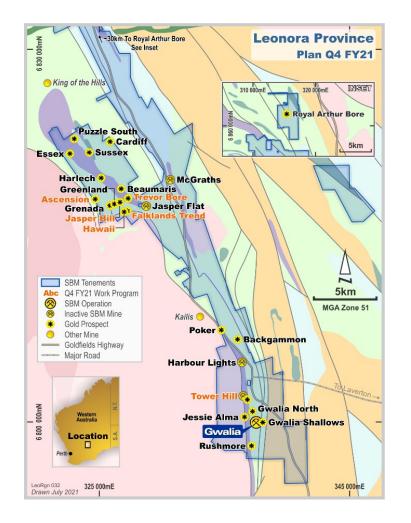
Exploration

Gwalia near mine and regional targets

A\$10 M - \$11 M exploration budgeted for FY22

Exploration activity during the year will focus on:

- Targets between the Gwalia mine, Tower Hill and Harbour Lights, with particular focus on testing potential high grade extensions to known deposits
- Leonora Region testing targets in the Jasper area within 20 km trucking distance of the Gwalia mill



Exploration

Nova Scotia

A\$7 M – \$8 M exploration budgeted in Canada for FY22

Exploration activity during the year will focus on:

- Moose River Corridor drill testing several targets immediately adjacent to and along strike from known deposits
- Northeast Regional drill test the highest ranked target
- Southwest Regional drill testing numerous defined targets and follow-up best results from FY21

Touquoy Camp – mapping, sampling, geophysics and modelling at HLS-Gap and HLS-Scheelite Closure Area



Exploration

Simberi Island

A\$5 M – \$6 M exploration budget in PNG for FY22

Exploration activity during the year will focus on:

- Continued drilling at six oxide targets on Simberi Island with the aim of defining additional Inferred and Indicated Resources
- Initial drilling will target Cell Tower / Pigibo East and Bekou South



Project pipeline

1.

					Canada
					Papua New Guinea
	Regional Nova Scotia				Australia
					Equity Investments
	Moose River Corridor				
	Simberi Island (oxides)	Cochrane Hill			
	Back Creek	Simberi Sulphides			
	Greater Gwalia	Leonora Province			
Kin Mining ¹ (19%)	Pinjin	Gwalia Shallows			Touquoy Mine
Peel Mining (10%)	Aust Potash ² (Au, EJV)	Gwalia Intermediates	Fifteen Mile Stream		Simberi Mine
Catalyst Metals (13%)	Catalyst Metals ³ (Au, EJV with CYL)	Tower Hill	Beaver Dam		Gwalia Mine
Equity Investments	Exploration	Feasibility	Permitting	Construction	Producing

Equity interest announced 14 July 2021

2. Earn-in and Joint Venture Agreement with Australian Potash announced 8 October 2018

3. Earn-in and Joint Venture Agreement with Catalyst Metals announced 25 November 2020

KEY



Ore Reserves summary at 30 June 2020

	Proved			Probable			Total		
Project	Tonnes ('000)	Gold (g/t)	Ounces ('000)	Tonnes ('000)	Gold (g/t)	Ounces ('000)	Tonnes ('000)	Gold (g/t)	Ounces ('000)
Gwalia, (WA)	1,583	8.0	409	7,824	5.9	1,483	9,407	6.3	1,892
Tower Hill, (WA)	-	-	-	2,572	3.7	306	2,572	3.7	306
Simberi Oxide, (PNG)	1,702	1.3	73	6,035	1.1	220	7,737	1.2	293
Simberi Sulphide, (PNG)	1,386	2.6	114	21,253	2.4	1,651	22,638	2.4	1,765
Simberi Stockpiles, (PNG)	678	0.6	12	-	-	-	678	0.6	12
Atlantic Gold, (NS)	21,370	1.2	796	23,700	1.1	851	45,070	1.1	1,647
Atlantic Gold Stockpiles, ((NS) 5,450	0.5	89	-	-	-	5,450	0.5	89
Total All Projects	32,168	1.4	1,493	61,384	2.3	4,511	93,552	2.0	6,005

Ore Reserves are based on a gold price of: Gwalia (AU\$1,600/oz), Tower Hill (AU\$1,250/oz), Simberi and Atlantic Gold (US\$1,300/oz)

Cut-off Grades Gwalia (4.7 g/t Au), Tower Hill (2.8 g/t Au), Simberi Oxide (0.5 g/t Au), Atlantic Gold (0.3 g/t Au – 0.5 g/t Au)

Mineral Resources are reported inclusive of Ore Reserves

Data is rounded to thousands of tonnes and thousands of ounces. Discrepancies in totals may occur due to rounding

Full details are contained in the ASX release dated 24 August 2020 'Ore Reserves and Mineral Resources Statements 30 June 2020' available at www.stbarbara.com.au

Mineral Resources summary at 30 June 2020

	Measured			Indicated		I	nferred			Total		
Project	Tonnes ('000)	Gold (g/t)	Ounces ('000)									
Gwalia, (WA)	3,991	6.4	819	17,403	6.0	3,353	1,201	5.5	214	22,595	6.0	4,386
Tower Hill, (WA)	-	-	-	4,604	3.9	574	489	3.3	51	5,093	3.8	625
Simberi Oxide, (PNG)	2,197	1.2	90	8,062	1.1	280	8,542	0.9	260	18,801	1.0	630
Simberi Sulphide, (PNG)	3,119	1.5	168	52,642	1.6	2,772	16,699	1.4	747	72,459	1.6	3,687
Atlantic Gold, (NS)	24,281	1.1	868	32,399	1.1	1,102	7,203	1.1	256	63,883	1.1	2,227
Total All Projects	33,587	1.8	1,945	115,110	2.2	8,081	34,134	1.4	1,529	182,832	2.0	11,555

Mineral Resources are reported inclusive of Ore Reserves

Cut-off Grades Gwalia (2.5 g/t Au), Tower Hill (2.5 g/t Au), Simberi Oxide (0.4 g/t Au), Simberi Transitional and Sulphide (0.6 g/t Au), Atlantic Gold (0.3 g/t Au)

Atlantic and Simberi Mineral Resources are reported constrained by a US\$1,800/oz pit shell

Data is rounded to thousands of tonnes and thousands of ounces. Discrepancies in totals may occur due to rounding

Full details are contained in the ASX release dated 24 August 2020 'Ore Reserves and Mineral Resources Statements 30 June 2020' available at www.stbarbara.com.au

Competent persons statement

Exploration Results

The information in this presentation that relates to Exploration Results is based on information compiled by Dr Roger Mustard, who is a Member of The Australasian Institute of Mining and Metallurgy. Dr Mustard is a full-time employee of St Barbara and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration' Results, Mineral Resources and Ore Reserves'. Dr Mustard consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Mineral Resource and Ore Reserve Estimates

The information in this presentation that relates to Mineral Resources or Ore Reserves for Gwalia, Tower Hill, Simberi and Atlantic Gold is extracted from the report titled 'Ore Reserves and Mineral Resources Statements 30 June 2020' released to the Australian Securities Exchange (ASX) on 24 August 2020. The report is available to view at stbarbara.com.au. The Company confirms that it is not aware of any new information or data that materially affects the estimates of Mineral Resources or Ore Reserves and that all material assumptions and technical parameters underpinning the estimates in the original ASX announcement 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 original ASX announcement.

Full details are contained in the ASX release dated 24 August 2020 'Ore Reserves and Mineral Resources Statements 30 June 2020' available at stbarbara.com.au.

Non-IFRS measures

We supplement our financial information reporting determined under International Financial Reporting Standards (IFRS) with certain non-IFRS financial measures, including cash operating costs. We believe that these measures provide meaningful information to assist management, investors and analysts in understanding our financial results and assessing our prospects for future performance.

All-In Sustaining Cost is based on Cash Operating Costs, and adds items relevant to sustaining production. It includes some, but not all, of the All-In Sustaining Cost components identified in World Gold Council's Guidance Note on Non-GAAP Metrics - All-In Sustaining Costs and All-In Costs (June 2013). Refer most recent quarterly report available at stbarbara.com.au for example.

Cash contribution

(AISC)

Cash flow from operations before finance costs, refer reconciliation of cash movement in the most recent guarterly report available at stbarbara.com.au

Cash operating costs

Calculated according to common mining industry practice using The Gold Institute (USA) Production Cost Standard (1999 revision). Refer most recent guarterly report available at stbarbara.com.au for example



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Scheduled ASX Announcements

26 August 2021

FY21 Financial Results Ore Reserves and Mineral Resources Statements

