

## First Quarter Report 2019

FOR THE THREE MONTHS ENDING 31 MARCH 2019

<b>OZ Minerals Metal Production &amp; Costs</b>	<b>Q1 2019</b>	<b>FY 2019 Guidance</b>
<b>Total Copper (Tonnes)</b>	<b>27,442</b>	<b>97,000-109,000</b>
Prominent Hill	25,575	95,000-105,000
Carrapateena	-	2,000-4,000
Antas	1,867	-
<b>Total Gold (Ounces)</b>	<b>34,648</b>	<b>118,000-131,000</b>
Prominent Hill	32,947	115,000-125,000
Carrapateena	-	3,000-6,000
Antas	1,701	-
<b>C1 Cash Costs (US cents/lb)</b>	<b>60.7</b>	<b>65-75</b>
Prominent Hill	48.6	65-75
Carrapateena	-	135-145
Antas	227.0	-
<b>All-in Sustaining Costs (US cents/lb)</b>	<b>103.9</b>	<b>110-120</b>
Prominent Hill	90.7	110-120
Carrapateena	-	185-195
Antas	285.0	-

### Prominent Hill on track for annual guidance as Carrapateena reaches first ore

- Carrapateena development reaches first ore; project on schedule for Q4 commissioning
  - Block Cave Expansion progresses to pre-feasibility and Life of Province planning to scoping study
- Prominent Hill on track for guidance; explorer challenge generates global interest
- West Musgrave resource update improves confidence in Nebo-Babel; OZ Minerals moves to 70% ownership
- Carajás and Gurupi province drilling and studies continue with updates scheduled for Q2
- Planning commences across multi-site exploration alliance entered with Red Metal Limited
- Cash balance remains strong at \$342 million after \$116 million investment into Carrapateena and \$48 million dividend payment; revolver cash advance facility extended to A\$300 million

“The year has started strongly. Carrapateena underground development has now reached first ore, Prominent Hill is on track for annual guidance and we have continued to progress our growing pipeline of projects and studies.

“Underground development at Carrapateena remains critical path and we are continuing to see development rates increase as additional work areas come on-line. The minerals processing plant and non-processing infrastructure construction have all continued on schedule and the project is on track for commissioning in Q4.

“The safety of our people is something we take very seriously, and we were deeply saddened by the fatal incident involving one of ElectraNet’s subcontractors that took place on the Carrapateena site last month. Kieran’s death had a profound effect on our teams. The air safety authority investigation is continuing as are our own investigations and we hope to gain some insights for use in our own activities. We were proud of the way our emergency response team, the site team and all at OZ Minerals came together in this difficult time to ensure the impact on our people’s wellbeing and site operations were well managed.

"Prominent Hill is on track for guidance despite slightly lower underground haulage volumes resulting from manning and equipment availability constraints which are being actioned. It is pleasing to see the underground operations achieve their seventh consecutive recordable injury free month, reflective of our focus on safety and continued investment in safety leadership training. The gold ore processing trial was successfully completed with data now under analysis and our expansion study diamond drill program is also underway. The Mount Woods Explorer Challenge has attracted entrants from 64 different countries with a significant proportion of competitors from industries outside of the extractive sector.

"We have now reached 70% ownership of the West Musgrave project. Our confidence in the Nebo-Babel deposits has improved with the resource update released today, which saw infill drilling result in conversion of Inferred resources to the higher Indicated category. The current study phase has been focused on developing core mining and processing concepts and we are investigating a range of new opportunities to increase project value.

"Mining volumes at Antas were lower during the quarter reflecting lower realised grades and equipment availability and mining of the stage three cutback. Our review of the Antas Mineral Resource is nearing completion and 2019 full year guidance will be released in Q2. Optimisation studies at Pedra Branca have resulted in a number of adopted design improvements and the Mineral Resource update will also be completed in Q2.

"Hill of Value studies at CentroGold have focused on optimising project scale as resource delineation drilling continued into the Blanket and Contact deposits. Permitting activities continued during the quarter and we are on track to complete the pre-feasibility study during Q2.

"Our growth pipeline continues to evolve and planning has commenced on several projects within the Red Metal Discovery Alliance. The drill program at the Punt Hill joint venture was completed during the quarter and we terminated our agreement with Woomera Mining Ltd.

"Our cash balance remains strong at \$342 million after significant growth investment into the business and payment of the 2018 final fully franked dividend. A new revolving cash advance facility has also been entered, providing access to A\$300 million for general corporate purposes, including capital expenditure and future core business activities.

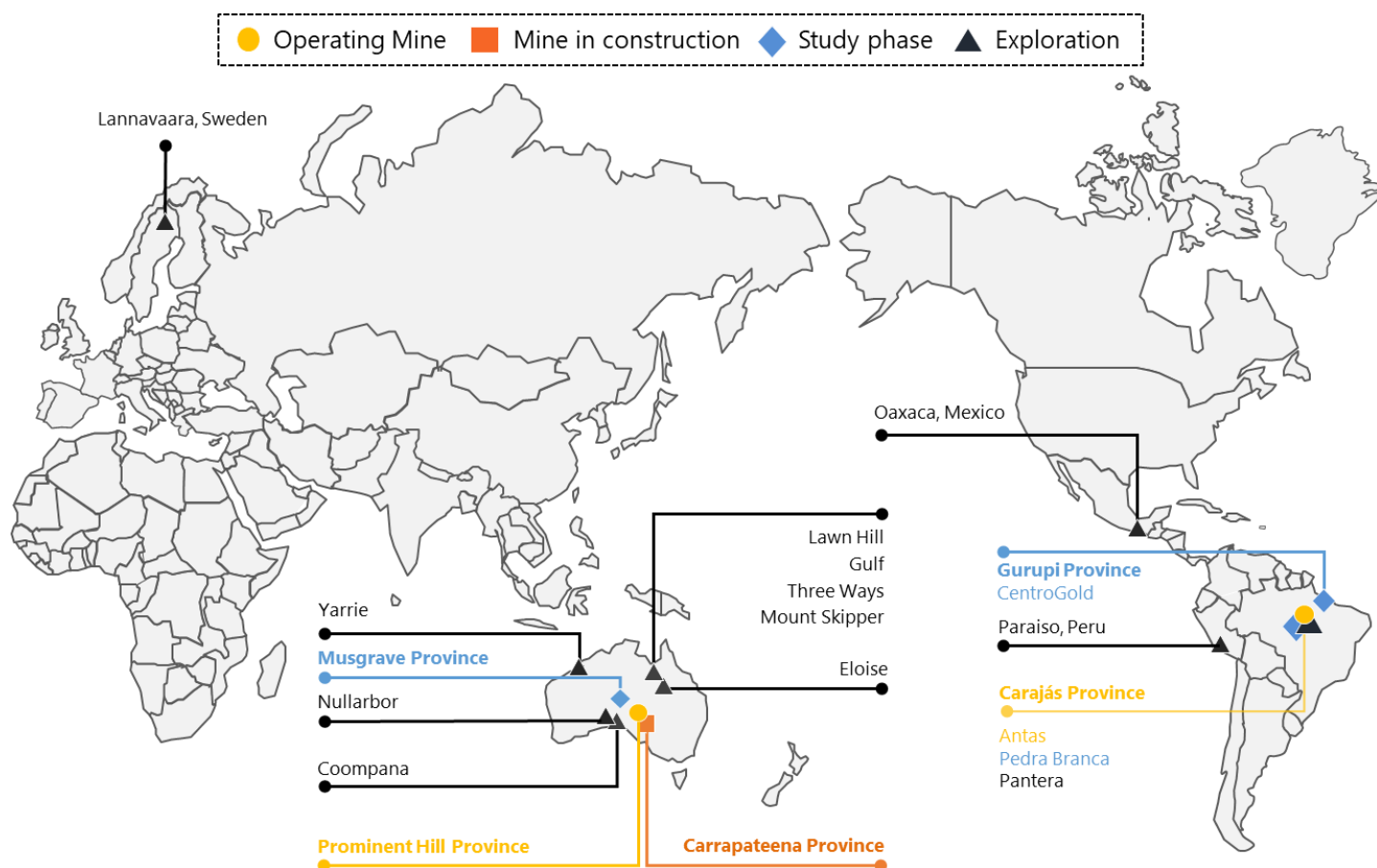
The second quarter will see further developments across our portfolio and we look forward to updating our stakeholders as each phase of work is completed."

A handwritten signature in black ink, appearing to read 'A. Cole'.

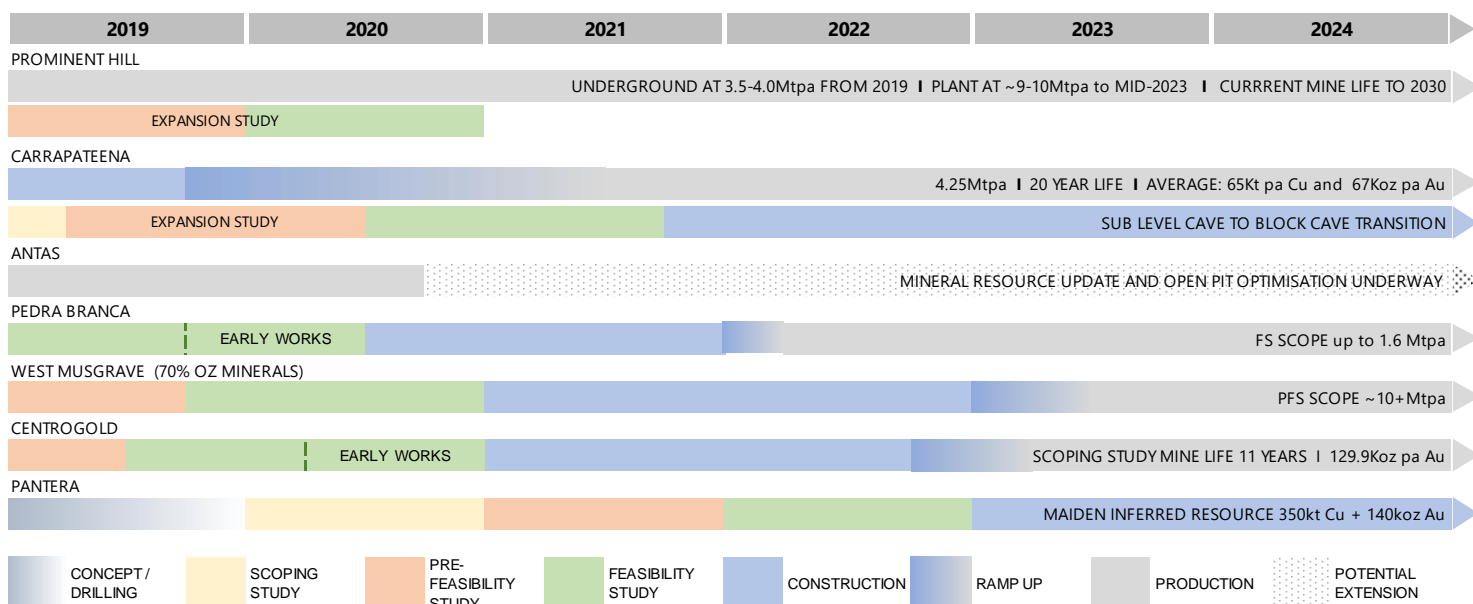
**Andrew Cole, Managing Director and CEO**

12 April 2019

## OPERATIONS, PROJECTS AND A GROWING PIPELINE OF OPPORTUNITIES

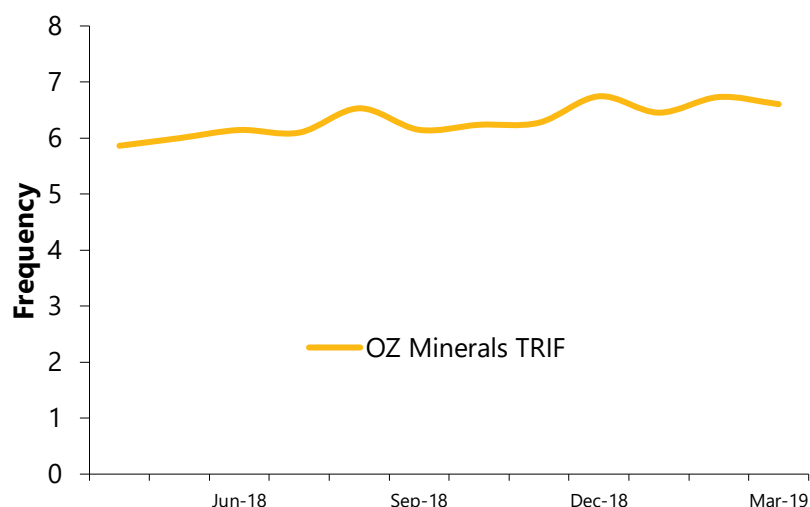


## ASSET TIMELINE\*



\*Indicative timeline assumes required study hurdles and proposed timeframes achieved. Previously announced project parameters stated.

## SOCIAL PERFORMANCE



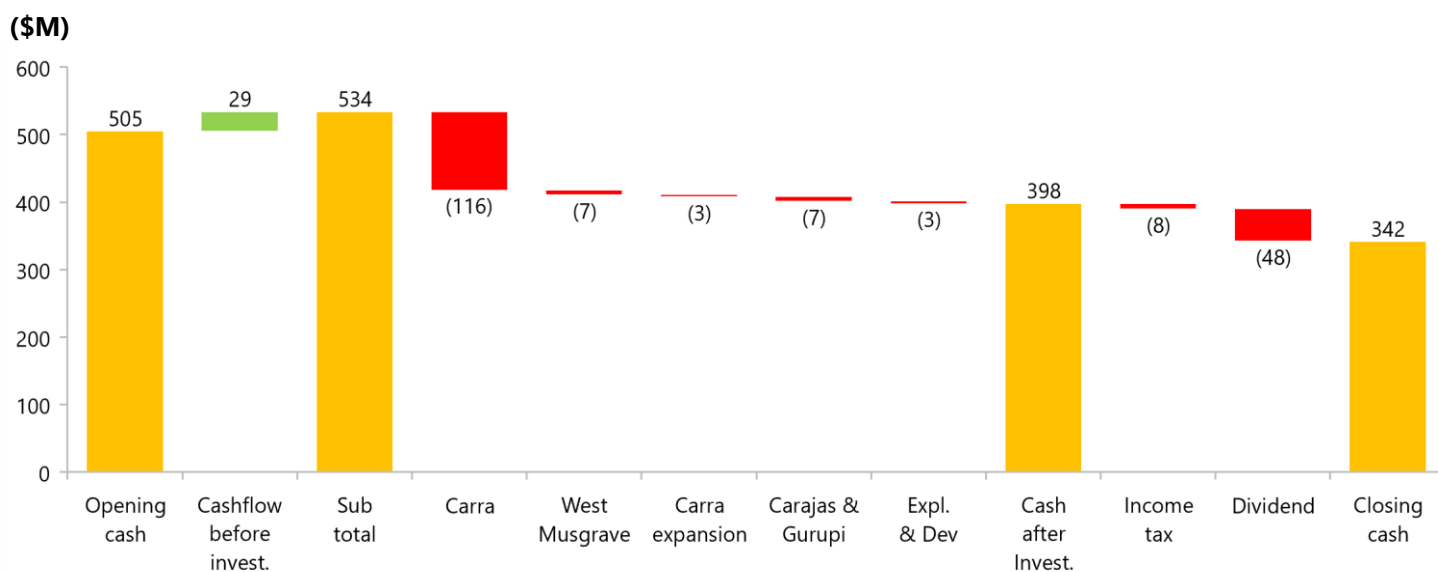
**Figure 1: OZ Minerals TRIF**

Total recordable injury frequency per million hours worked of 6.60 was in line with December's performance (6.74). Safety performance at Prominent Hill continued to improve with site TRIF reducing to 4.52 and underground operations achieving seven months recordable injury free, following continued investment in safety leadership training.

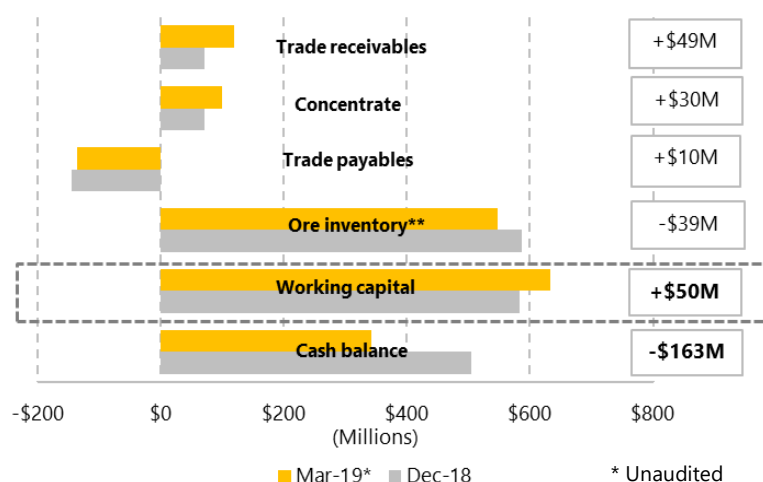
On the 20<sup>th</sup> of March an ElectraNet sub-contractor stringing the high voltage power lines at Carrapateena was fatally injured. The air safety authority has commenced an investigation and OZ Minerals has commenced its own investigation, which is expected to be complete in the coming weeks.

A key initiative embarked on in 2019 to create further value for stakeholders is a flagship social contribution project under the banner "Educating the Next Generation". OZ Minerals has partnered with The Smith Family and the Clontarf Foundation to deliver a three-year education support program that will help develop the communities where OZ Minerals operates, build enduring partnerships aligned with the community's aspirations, and provide engagement opportunities for the OZ Minerals team.

## CASH GENERATION



**Figure 2: Cash utilisation Q1 2019**



**Figure 3: Q1 working capital movements**

The cash balance reduced to \$342 million at 31 March after payment of the 2018 final fully franked dividend of \$48 million and cash investment into the Carrapateena project of \$116 million (\$128 million of capital expenditure).

Working capital increased by \$50 million as a result of:

- Increased trade receivables of \$49 million (timing of shipments late in Q1)
- Increased concentrate inventory of \$30 million (concentrate to be shipped in Q2)
- Decreased trade payables of \$10 million (timing of payments)
- Decreased ore inventory of \$39 million (stockpile processing)

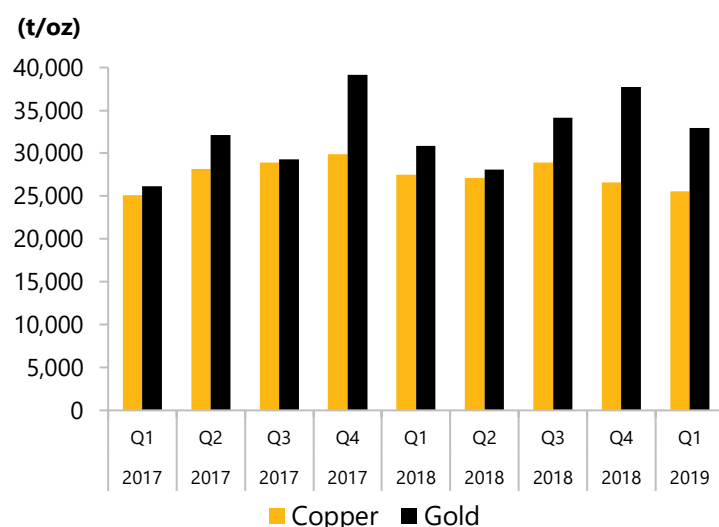
There was a Q1 net ore inventory drawdown resulting in a non-cash ore inventory movement of \$39 million.

The cash balance will continue to reduce through 2019 with ongoing growth capital expenditure, primarily in relation to the Carrapateena project.

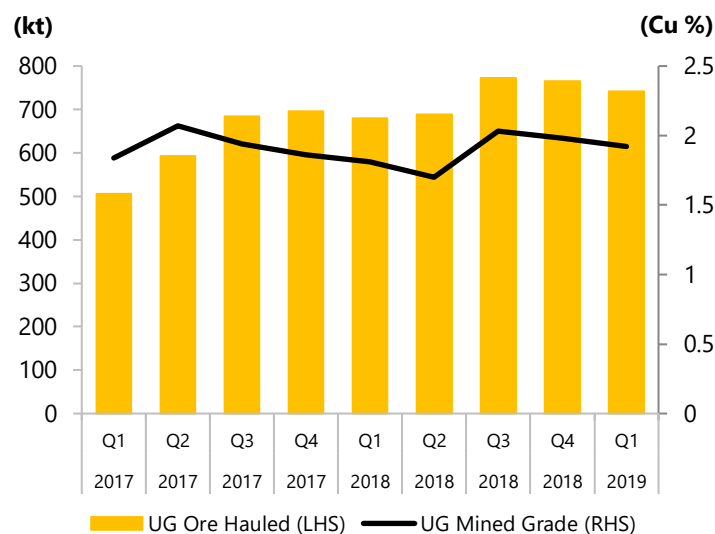
Ore inventory will also continue to deplete as open pit stockpiles supplement underground ore feed, maintaining the plant at full capacity to mid-2023.

## PROMINENT HILL PROVINCE

For operating and cost statistics, please refer to Table 1 on page 16 of this report.



**Figure 4: Prominent Hill production**



**Figure 5: Prominent Hill UG ore hauled and grades**

Prominent Hill produced 25,575 tonnes of copper and 32,947 ounces of gold during the quarter and is on track to achieve full year guidance.

## Underground Operations

Underground operations delivered 742kt of ore at 1.92% copper and maintained a recordable injury free safety performance for the second consecutive quarter. Haulage volumes were slightly lower than Q4 following operational constraints, including manning and equipment availability. Actions taken have addressed these issues going forward and opportunities continue to be identified to support the mine through ramp up. Haulage volumes will increase through 2019 as underground development opens additional stoping fronts and the one-way trucking circuit is fully established.

The Malu Paste Plant construction platform and perimeter access road were completed during the quarter in preparation for mobilisation of the Engineering, Procurement and Construction (EPC) Contractor in Q2. Engineering work has now been finalised and fabrication of long lead items commenced.

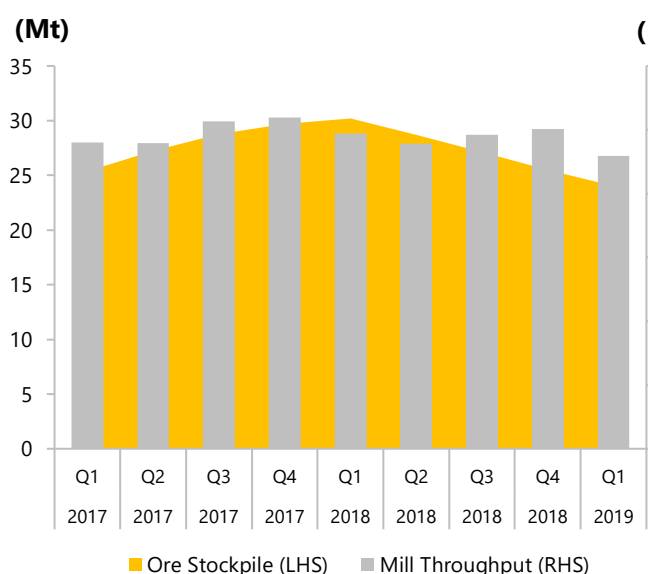
Expansion study diamond drill platform development was completed and drilling commenced with ~2.9km achieved during the quarter. The haulage study continued and remains on track for completion in Q3.

## Processing

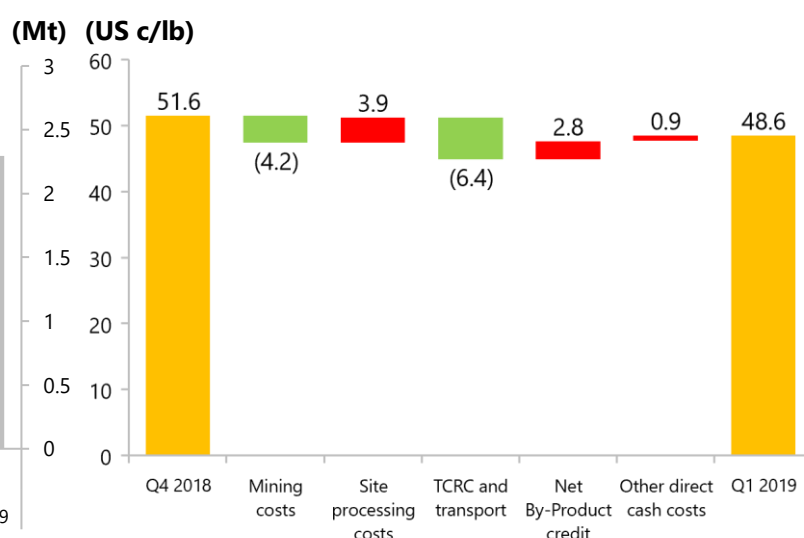
There was 2.3Mt of ore milled for the quarter. Copper content in concentrate produced was 44% with gold at 18 g/t. Copper concentrate grades improved over the prior quarter and are expected to improve further through 2019 with increased underground ore feed driving an increasing copper-sulphur ratio. Plant recoveries were 86% for copper and 74% for gold.

The scheduled gold ore processing trial was completed safely during the quarter with data analysis and interpretation now underway. An update on 2020 production remains on track for mid-2019 following the trial review.

The scheduled concentrator shutdown was completed during Q1 which included a reline of the SAG Mill and planned replacement of a mill drive gearbox. The next shutdown is scheduled for May.



**Figure 6: PH stockpiles and mill throughput**



**Figure 7: PH Unit C1 costs Q1 2019 vs. Q4 2018**



## Costs

C1 cash costs were US 49c/lb for the quarter with an All-In Sustaining Cost of US 91c/lb. Costs were slightly lower than Q4 2018, with lower mining costs due to less stope filling, lower ore stockpile handling costs and lower site administration costs. These were largely offset by higher processing costs as a result of the scheduled shutdown. TCRC and transport costs were lower, primarily due to the customer mix.

As detailed above, non-cash costs attributable to ore stockpiles processed during the quarter amounted to \$39 million.

### Prominent Hill province exploration

The Explorer Challenge officially opened with the site going live and data available for downloading. The competition has over 1,000 active competitors with over 6Tb of data downloaded in the first few weeks. Entrants have been received from 64 different countries and a significant proportion of competitors are from industries outside of the extractive sector.

## CARRAPATEENA PROVINCE

The Carrapateena project is on track for commissioning in Q4 with the continued expansion of underground development activities and surface infrastructure construction progressing to plan. First ore was reached in early April, allowing detailed orebody knowledge to be gathered from multiple development headings, while establishing primary vent connections and infrastructure for level development and production.

### Underground development

All key underground milestones remain on schedule. A total of 2,414 metres was achieved during the quarter with total development reaching 12,303 metres (3,959 metres to the face of the Tjati decline) and a vertical depth of 575 metres.

The first production level access commenced and the primary ventilation system progressed to plan, with two surface vent rises and the first internal rise now complete.

Development rates increased by 500 metres over the prior quarter as a result of additional work areas coming on line. Additional plant and equipment, including an underground truck, agitator and integrated tool carriers, were commissioned on site to facilitate the continued ramp-up in development rates.

Underground infrastructure work commenced with over 2,000 bolts installed in the conveyor decline to hang the conveyor modules and pipework. Primary ventilation fans and underground crusher deliveries remain on schedule. Production engineers and specialists were on-boarded late in the quarter to finalise detailed production planning for commissioning.



**Figure 8: Quarterly decline advance**



**Figure 9: Ore body reached**

## Infrastructure development

The minerals processing plant and non-processing infrastructure construction continued on schedule. The mill bearing house, SAG shell and tailings thickener bridge were installed, and the SAG shell completed. Non-processing infrastructure building construction comprising warehouses and workshops also commenced during the quarter.

Helicopter stringing for the high voltage power line was suspended following the fatal incident on site. Conventional stringing commenced in early April and no impact to the project schedule is anticipated, with stringing now over 65% complete. The Northern wellfield site works commenced, with grading access tracks progressing well and pipeline installation ongoing. The tailings storage facility construction is on schedule and mine area borrow pit works were completed.



**Figure 10: Minerals processing plant**



**Figure 11: Main TSF embankment**

Expenditure for Q1 on the Carrapateena project was \$128 million.

## Carrapateena province expansion

The Carrapateena Block Cave Expansion project has progressed to pre-feasibility and the Carrapateena Life of Province Plan to scoping study.

The Block Cave Expansion Scoping Study<sup>1</sup> determined that replacing the lower half of the sub level cave with a block cave and expanding the annual throughput rate from 4.25 Mtpa to 10 – 12 Mtpa from 2026, has the potential to create significantly more value than a sub level cave development alone. The study outlined the potential to increase average life of mine copper production from 65,000 tonnes per annum to ~105,000 – 125,000 tonnes per annum from 2026 and a reduction in life of mine all-in sustaining costs to ~US 90 – 95 c/lb. Importantly, the study also provided a high-level view of how a block cave could be constructed without impeding operation of the Carrapateena Sub Level Cave currently in construction, or without rework of current construction plans.

The potential for the Carrapateena Block Cave Expansion to progressively unlock the Carrapateena Life of Province more broadly via a methodical and incremental approach is particularly attractive as it manages risk and capital expenditure whilst enhancing value for shareholders and other stakeholders. The pre-feasibility study is expected to be completed by mid-2020.

<sup>1</sup> The information initially appeared in the report entitled "Carrapateena Block Cave Expansion has potential to optimise value and further unlock the province" which was released to the market on 6 March 2019 and is available to view at [www.ozminerals.com/media/asx](http://www.ozminerals.com/media/asx). OZ Minerals confirms that all the material assumptions in the original market announcement continue to apply and have not materially changed.



## **Carrapateena province exploration**

During the quarter, two regional holes totalling 1891.7m were drilled. Both holes are to the north west of Khamsin and both intersected intervals of hematite and lesser quartz breccia with minor chalcopyrite mineralisation. Drilling has paused while infill magnetic, gravity and MT surveys are completed.

The drill program at the Punt Hill joint venture with Red Metal Limited was completed during the quarter. The joint venture is targeting IOCG mineralisation approximately 50km south of the Carrapateena project and has completed six holes for a total of 6149.1m. The best intersection was testing a large coincident gravity and magnetic anomaly, with DD18PTH001 intersecting 10.8m @ 1.07% Cu from 841m<sup>2</sup>.

Exploration and evaluation expenditure of \$2.6 million was incurred at Carrapateena in Q1 and expensed as incurred.

## **MUSGRAVE PROVINCE**

Work on the current phase of study for the West Musgrave project progressed during the quarter, with a focus on developing core mining and processing concepts, but also investigating new opportunities to add further value to the project. The core work included mining cut-off grade and production rate selection, mine design and engineering of the process plant and non-process infrastructure. Metallurgical variability testwork has been completed on all of the ore types present in the deposit. Results have been consistent and confirm that recovery and concentrate quality targets can be met.

A number of new opportunities have been added to the scope including mine automation, an alternate flotation flowsheet and new process equipment options. A workforce planning workstream has commenced to quantify the potential benefits of an offsite operations centre. Being relatively early in the project development timeline, there are many options still being considered and OZ Minerals is committed to investigating every opportunity to maximise the value of the asset.

De-risking of the project has also continued with a focus on development of an off grid power solution, identification of sufficient water supply and transport logistics. The inclusion of new infill drilling in the updated Mineral Resource estimate for the Nebo-Babel deposits has increased the proportion of Indicated Resources through conversion of resources from the lower Inferred category to the higher Indicated category, improving confidence in the resource. Resource infill drilling is continuing.

Importantly, the team is working in collaboration with the local community to co-design elements of the project to maximise community value where possible. A recent community consultation workshop on site was well supported with more than 150 community attendees learning more about the project and discussing their aspirations. Planning for the mine access agreement and regulatory approvals progressed.

During the quarter OZ Minerals met its expenditure obligations in order to move to 70% ownership of the West Musgrave project.

The current phase of work for the West Musgrave project will be completed late Q2 / early Q3, with an update to be released in Q3.

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<sup>2</sup> See Red Metal Limited ASX announcement titled "Drill Results: Punt Hill & Pernatty Lagoon Copper-Gold Projects" released on 11 April 2019 and available at: [www.redmetal.com.au/investors/asx-announcements-mainmenu-96.html](http://www.redmetal.com.au/investors/asx-announcements-mainmenu-96.html)



**Figure 12: Community consultation workshops**



**Figure 13: Processing plant concept**

Exploration and evaluation expenditure of \$7.0 million was incurred at West Musgrave in Q1 and capitalised as incurred.

## BRAZIL

### CARAJÁS PROVINCE

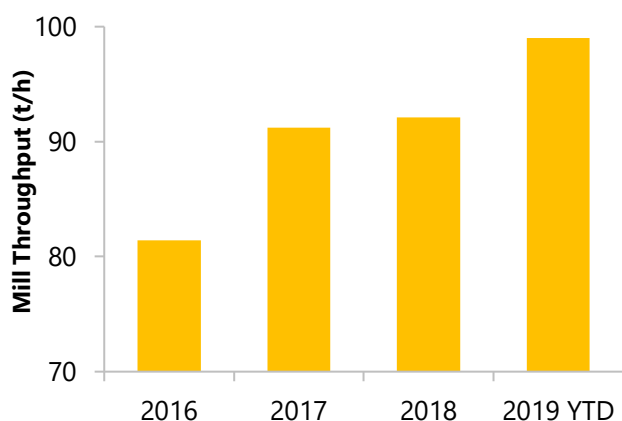
#### Antas

Antas produced 1,867 tonnes of copper and 1,701 ounces of gold during the quarter.

Mining was focused on the stage three cut-back after successfully completing stage two prior to the onset of the wet season. Mining volumes were affected by lower equipment availability, directly reducing volumes mined and increasing mining costs relative to last quarter. The operation has since mobilised additional sub-contracted drilling support at no further fixed or mobilisation cost (meters charged at scheduled rates). A focus on operational processing plant improvements at Antas has seen record hourly plant throughput and plant ore tonnes milled achieved during the quarter, partially offsetting lower milled grades.

A review of the updated Antas open pit Mineral Resource estimate is nearing completion with internal and independent external review underway. An update of the associated mine plan is occurring in parallel.

A diamond drill program commenced in the quarter with two diamond drill rigs, testing areas of mineralisation that have the potential to support future underground mining under the current pit design. Drill programs targeting shallow near mine mineralisation more amenable to open pit mining proximal to the Antas North pit are also planned.



**Figure 14: Antas processing plant throughput**



**Figure 15: Antas resource drilling**

## **Pedra Branca**

DFS works continued inclusive of Mineral Resource updates and mining studies. Resource delineation drilling was completed at Pedra Branca East with four drill rigs successfully completing ~9,000m, aimed at increasing tonnages of higher confidence mineralisation in the upper zone of the ore body, aligned with the PFS study recommendations.

Preliminary mine optimisation studies aimed at identifying the best value proposition in terms of mine scale and design progressed. Improvements in ramp design (reduced development), lateral develop size (reduced size, reducing cost and dilution) and a preference for longitudinal stoping (reduced backfill) are to be adopted.

Work in Q2 will focus on completing the Mineral Resource update and underground mine plan optimisation 'Hill of Value' study (optimal mine cut off and mine scale).

## **Pantera**

No work was carried out on Pantera during Q1. Further infill and resource definition drilling will start at the end of April pending receipt of permits.

## **Carajás province exploration**

Within the Antas Mine Lease geological mapping, soil sampling and ground magnetics over the Clovis and Paulinho targets were completed with drilling planned based on the results of this work for Q2. Drilling on the remaining airborne conductor has been postponed due to heavy rains making the site unsafe to access. Deep drilling under the Antas North orebody is planned to start in Q2 in an initial drill program to test the potential below the final pit which if successful will be expanded to a closer spaced drill program.

At the Canaa block, exploration work has focussed on regional mapping, sampling and concurrent ground magnetics and EM (FLTEM) on tenements adjacent to the Pedra Branca mine lease. Fieldwork has been completed on the Canaa West target and drilling is planned for Q2 pending landowner and government access agreements.

## **GURUPI PROVINCE**

### **CentroGold**

Resource delineation drilling into the Contact Deposit was completed in the quarter and a PFS 'Hill of Value' optimisation exercise to identify optimal project scale progressed to plan.

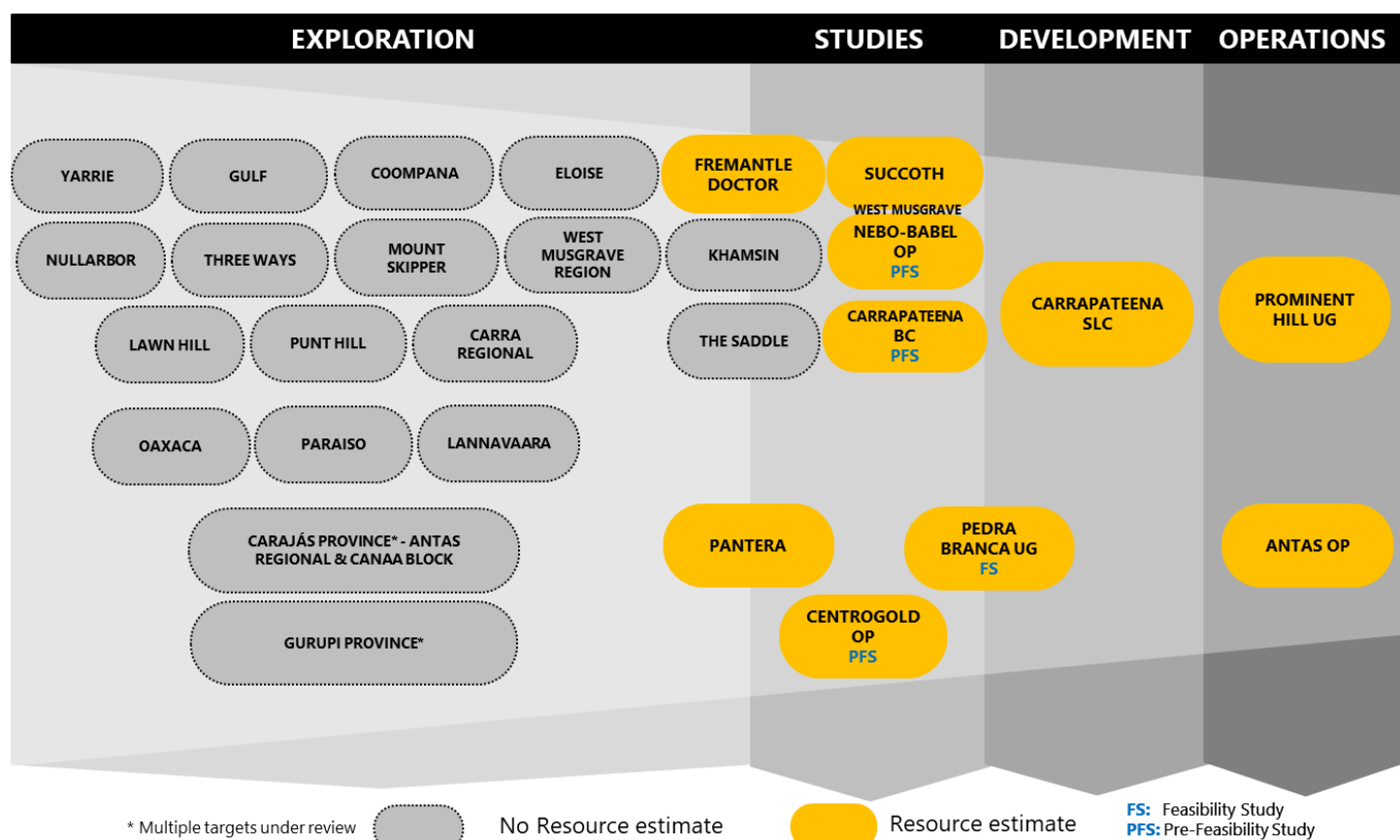
Drilling will continue into Q2 at Blanket, with productivity rates anticipated to be impacted by the wet season. The team remains focused on completing the PFS in Q2, continuing the legal process of lifting the injunction, and undertaking Mineral Resource updates as assay results are received.

### **Gurupi province exploration**

Regional exploration has started with drilling commencing at the Sequiero target at the southern end of the Gurupi landholding. Heavier than usual rain has delayed the progress of this program which will now continue into Q2.

Exploration and evaluation expenditure of \$7.2 million was incurred at the Gurupi and Carajas provinces in Q1 and expensed as incurred.

## EXPLORATION AND GROWTH



**Figure 16: Growth pipeline**

No significant work was undertaken on the Eloise JV with Minotaur Resources due to the wet season. Planning was undertaken for a major drill program (~80 holes for ~21,000m) to commence in early Q2. The focus of the program will be delineating the central portion of the mineralisation at Jericho where the best grades and thicknesses have been intercepted.

The earn in agreement with Woomera Mining Ltd was terminated during the quarter due to licence renewal issues.

Planning commenced on various projects within the Red Metal Discovery Alliance. The Nullarbor and Mt Skipper projects will be the first projects to see significant work, with geophysical surveys planned to commence in Q2 and drilling expected to be completed in H2.

At the Lannavaara project in northern Sweden, limited field work was undertaken in Q1 due to extreme weather conditions. Ground based EM and magnetic geophysical surveys commenced late in the quarter and are expected to run into Q2. Base of till sampling is planned to commence in Q2 and drill testing of targets in Q3.

No field work was undertaken on the Oaxaca projects in Mexico. The company continues to work with its partner to advance drill permitting and testing of geochemical and geophysical targets at Riqueza Marina.

Field work commenced on the Paraiso project in Peru in early Q1 with a successful community engagement process enabling a three-month geological mapping and sampling program to commence.

Exploration and evaluation expenditure of \$2.8 million was incurred on exploration and growth projects in Q1 and expensed as incurred.

## CORPORATE

Non-Executive Director, Marcelo Bastos, advised he will not seek election as a director of OZ Minerals at the Company's Annual General Meeting on 15 April 2019 due to additional board commitments taken up with Anglo American plc. The search for a new Non-Executive Director has commenced, targeting deep operational and international mining experience.

Organisational capability was strengthened with the appointment of Fiona Blakely as Chief People Officer during the quarter. Fiona will be responsible for facilitating change for our business through a focus on people and joins the company with over 20 years' multinational experience in people development and management, and organisational development.

Gold hedges that matured during the quarter amounted to 20,540 ounces at an average price of A\$1,854/oz. The total amount of gold hedged at the end of the quarter was 217,517 ounces at an average price of A\$1,744/oz.

The company entered into a new three-year Syndicated Facilities Agreement (SFA) providing access to a A\$300 million revolving cash advance facility for general corporate purposes, including capital expenditure and future core business activities. The facility replaces the company's previous A\$100 million revolver facility and has been structured under a Common Terms Deed ('CTD'), enabling the application of the agreed terms and provisions to future funding agreements that have the benefit of the CTD. The new facility increases the company's involvement with a number of international and Australian banks.

## 2019 KEY MILESTONES

Business Area	Milestone	2019			
		Q1	Q2	Q3	Q4
Prominent Hill Province	Haulage Feasibility Study				
	Updated Mineral Resource and Ore Reserve Statement				
Carrapateena Province	Province expansion Scoping Study				
	First commercial concentrate production				
	Updated Mineral Resource and Ore Reserve Statement				
West Musgrave Province	Mineral Resource update for Nebo-Babel				
	70% earn-in to project				
	Pre-Feasibility Study				
Carajás Province	Antas Mineral Resource and Ore Reserve update + 2019 guidance				
	Pedra Branca Mineral Resource update				
	Pedra Branca early works decision / commencement				
Gurupi Province	CentroGold Pre-Feasibility Study				
	CentroGold Mineral Resource update				
Strategic Operational Projects	CTP decision on next steps				



## Corporate Information

### Webcast

As is OZ Minerals' established practice, a presentation associated with this Quarterly Report will be broadcast at 10am (AEST) on the day that the Report is lodged with the ASX. Access to this live broadcast is available to all interested parties via the OZ Minerals website ([www.ozminerals.com](http://www.ozminerals.com)) and is archived on the website shortly thereafter for ongoing public access. The date of each Quarterly Report presentation is announced in advance and can be found on the OZ Minerals website.

While we will endeavour to release the Report on the date provided in advance, we may bring the announcement forward if the relevant information is finalised earlier than expected or delay the Report if information is not final.

### Issued Share Capital at 11 April 2019

Ordinary Shares	323,874,831
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### Share Price Activity for the March Quarter (Closing Price)

High \$10.84
Low \$8.54
Last \$10.60 (11 April 2019)
Average daily volume 2.1 million shares

### Share Registry

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Table 1: Production and Costs – March Quarter

Q1 2019 PRODUCTION & COSTS		PROMINENT HILL	ANTAS	GROUP
MINED (TONNES)	OP ORE	-	102,974	102,974
	UG ORE	741,921	-	741,921
	OP WASTE	-	1,322,106	1,322,106
MINED GRADE SOURCE				
OPEN PIT ORE	COPPER (%)	-	0.93	0.93
	GOLD (G/T)	-	0.15	0.15
UNDERGROUND ORE	COPPER (%)	1.92	-	1.92
	GOLD (G/T)	0.47	-	0.47
ORE MILLED	(TONNES)	2,295,577	205,077	2,500,654
MILLED GRADE	COPPER (%)	1.30	0.95	1.27
	GOLD (G/T)	0.59	0.30	0.57
	SILVER (G/T)	2.66	-	2.44
RECOVERY	COPPER (%)	85.8	95.9	86.4
	GOLD (%)	73.8	85.1	75.6
	SILVER (%)	76.1	-	76.6
COPPER CONCENTRATE PRODUCED	TONNES	58,109	6,908	65,017
CONCENTRATE GRADE	COPPER (%)	44.0	27.0	42.2
	GOLD (G/T)	17.6	7.7	16.6
	SILVER (G/T)	80.4	-	71.9
CONTAINED METAL IN CONCENTRATES PRODUCED	COPPER (TONNES)	25,575	1,867	27,442
	GOLD (OZ)	32,947	1,701	34,648
	SILVER (OZ)	150,289	-	150,289
TOTAL CONCENTRATE SOLD	(DM TONNES)	47,449	7,992	55,441
CONTAINED METAL IN CONCENTRATES SOLD	COPPER (TONNES)	18,962	2,122	21,084
	GOLD (OZ)	29,378	1,800	31,178
	SILVER (OZ)	123,262	-	123,262
<b>COST SUMMARY</b>				
MINING COSTS	US Cents/lb	49.5	150.0	56.3
SITE PROCESSING COSTS	US Cents/lb	32.5	55.0	34.0
TC/RC and TRANSPORT	US Cents/lb	36.0	52.0	37.1
NET BY - PRODUCT CREDIT	US Cents/lb	(79.0)	(53.0)	(77.2)
OTHER DIRECT CASH COSTS	US Cents/lb	9.6	23.0	10.5
<b>TOTAL C1 COSTS</b>	<b>US Cents/lb</b>	<b>48.6</b>	<b>227.0</b>	<b>60.7</b>
ROYALTIES	US Cents/lb	17.8	39.0	19.2
OTHER INDIRECT COSTS	US Cents/lb	2.5	7.0	2.8
<b>TOTAL CASH COSTS</b>	<b>US Cents/lb</b>	<b>68.9</b>	<b>273.0</b>	<b>82.7</b>
D&A	US Cents/lb	25.6	64.0	28.2
<b>TOTAL PRODUCTION COSTS</b>	<b>US Cents/lb</b>	<b>94.5</b>	<b>337.0</b>	<b>110.9</b>
<b>ALL-IN SUSTAINING COST</b>	<b>US Cents/lb</b>	<b>90.7</b>	<b>285.0</b>	<b>103.9</b>

There was a Q1 net ore inventory drawdown resulting in a non-cash ore inventory movement of A\$39 million.

Table 2: Guidance

GUIDANCE	2019*		
	PROMINENT HILL	CARRAPATEENA	TOTAL
Copper Production (tonnes)	95,000-105,000	2,000-4,000	<b>97,000-109,000</b>
Gold Production (ounces)	115,000-125,000	3,000-6,000	<b>118,000-131,000</b>
Underground Ore Movement (Mt)	3.7-4.0		
Underground Sustaining Capital Expenditure (A\$M)	50-60		<b>50-60</b>
Site Sustaining Capital Expenditure (A\$M)	12-15	4-6	<b>16-21</b>
Growth Capital Expenditure (incl. mine development) (A\$M)	35-45	540-570 <sup>3,4</sup>	<b>575-615</b>
AISC (US c/lb) <sup>2</sup>	110-120	185-195	<b>110-120</b>
C1 Costs (US c/lb) <sup>2</sup>	65-75 <sup>1</sup>	135-145	<b>65-75</b>
Exploration (A\$M)			<b>30-35</b>
Project studies and drilling commitments to next stage gate (A\$M)			<b>75-80<sup>5</sup></b>

\* 2019 guidance for Antas will be released in Q2 upon completion of the Mineral Resource and Ore Reserve update and revised mine plan

<sup>1</sup> US dollar denominated C1 costs for Prominent Hill will benefit by US1.5c per US1c reduction in the AUD/USD exchange rate.

<sup>2</sup> AUD/USD of 0.73 has been used in converting A\$ costs to US\$ for C1 and AISC guidance

<sup>3</sup> Additional commissioning expenditure of A\$40-A\$45 million in 2019 will be offset on sale of concentrate from commissioning ore in Q1 2020. Guidance does not include copper produced from ore mined during mine construction.

<sup>4</sup> Carrapateena growth capital expenditure includes pre-production capital (A\$465-A\$485 million), mine development (A\$30-A\$35 million) and underground infrastructure development (A\$45-A\$50 million)

<sup>5</sup> Project studies and drilling costs of A\$75-A\$80 million reflects anticipated expenditure on Board approved studies to their next milestone. Should the Board approve a project to proceed to a further milestone, additional funds will be incurred and guidance will be updated as required.