



**Heating Up** 

Expanding Chile's Next Major Copper Producer

Chile Explore Congress 2017 Hotel Santiago, Chile September 28<sup>th</sup> 2017

**ASX code: HCH** 

September 2017



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## **HOT CHILI**

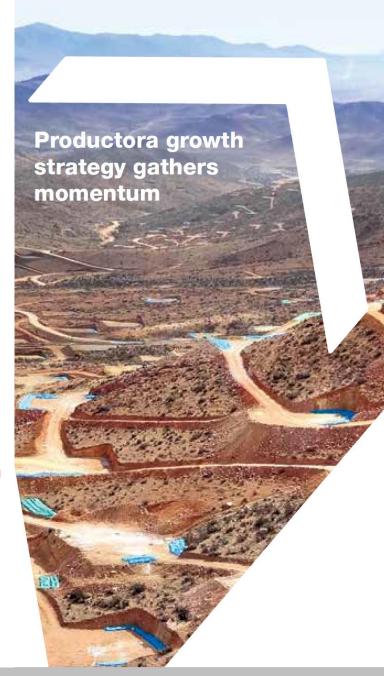
One of the **top ASX listed Copper Developers** with advanced Chilean coastal range copper portfolio

Productora Copper project resource base sitting at 1.5Mt copper & 1Moz gold

**PFS Complete-** 10 Years Mine Life with first 8 years averaging 66kt Cu and 25koz Au production annually

Pursuing high grade and bulk tonnage resource growth ahead of Definitive Feasibility on expanded project

**Building Chile's next major copper producer into a rising copper market** 



## **Corporate Summary**



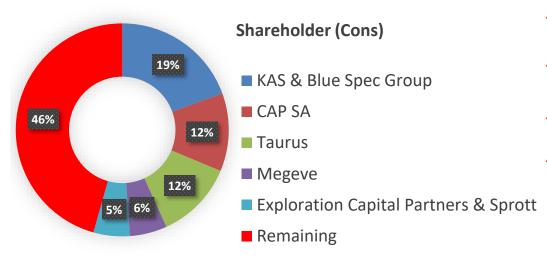
#### **Board of Directors**

Murray Black
Christian Easterday
Managing Director
Michael Anderson
Allan Trench
Roberto de Andraca Adriasola
Randall Nickson
Non Exec Director
Non Exec Director
Non Exec Director
Non Exec Director

## **Capital Structure**

Issued Shares	555.1M
Unlisted Options	11.0 M (30c, exp Jun 2019) 8.0M (10c, exp Sept 2018 20.0M (3.33c, exp Jun 2019)
Unlisted 5yr Convertible Notes	112,559 (A\$100 face value)
Share Price	A\$0.037
Mkt Capitalisation	A\$20.5M
Mkt Capitalisation (fully dilute)	A\$34.5M (incl Con Notes, Options)
Cash	<b>A\$1.5M approx</b> . (16 <sup>th</sup> Sept 2017)
Enterprise Value (EV)	A\$19M
Enterprise Value (fully dilute)	A\$33M

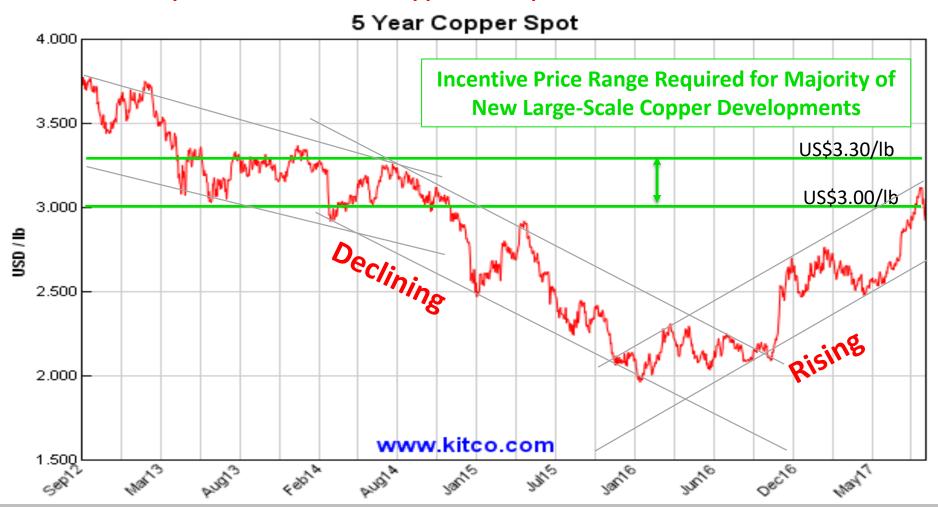
#### **Substantial Shareholders**



## **Copper Price Rising**



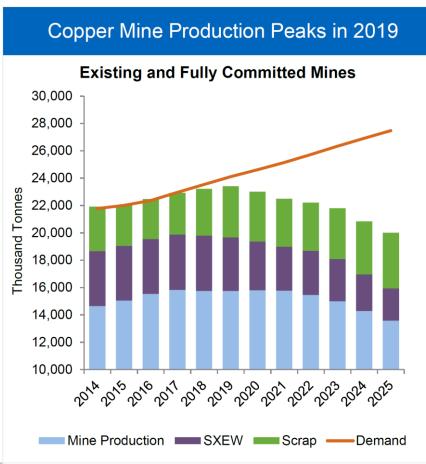
- Copper price has increased 50% in past 12months
- Market cap's of most ASX listed copper developers still at 10-20% of their 2013 levels

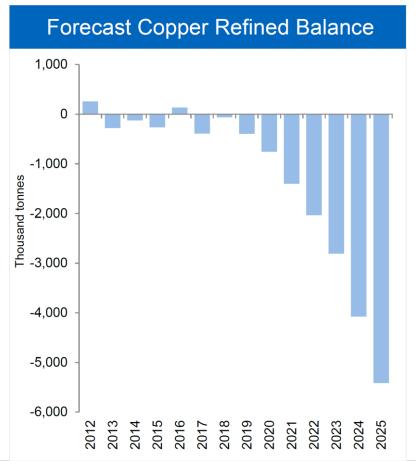


# Copper Supply Deficit Drawing Near



- Tight Supply/Demand balance over coming 18 to 24 months
- Large Supply deficit expected to widen from 2019 to drive next wave of copper mines



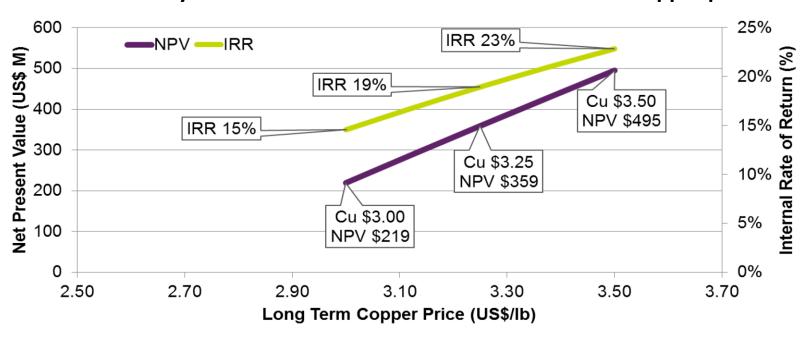


# Value Highly Leveraged to Copper Price



 Above US\$3.00/lb copper price, every US\$5c/lb increase adds US\$28M in NPV to the valuation of Productora (against spot prices)

#### Financial analysis of Productora PFS valuation in relation to copper price



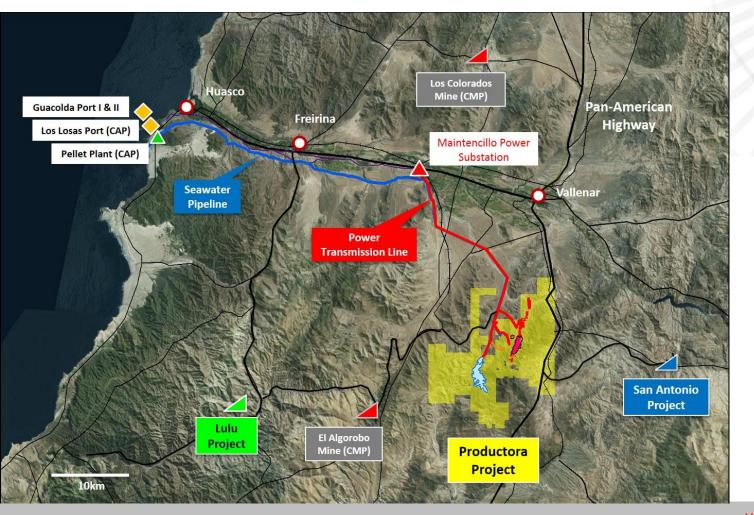
- Figure shows three valuation price cases.
- Significant upside exposure to long term price.

Refer to ASX Announcement dated 2<sup>nd</sup> March 2016 Independent Financial Analysis by Amec Foster Wheeler

## **Chilean Operating Centre**



Low altitude coastal range, 700km north of Santiago Chile, significant infrastructure advantage secured





## **Large Scale Copper Hub**

- **Productora** (Flagship)
- San Antonio (HG Satellite)
- Lulu (HG Satellite)

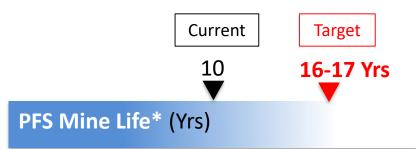
# **Building Productora into a Premier Copper Development**



## **Bulk Tonnage Growth Target**

- Targeting minimum 6-7yrs additional bulk tonnage mine life (13Mtpa)
- Target Mineralisation<sup>1</sup> of 84-98Mt@ 0.45-0.55% copper for 380-540kt Cu

## Impact- ~50% increase to mine life at existing scale



#### Target Mineralisation Statement<sup>1</sup>

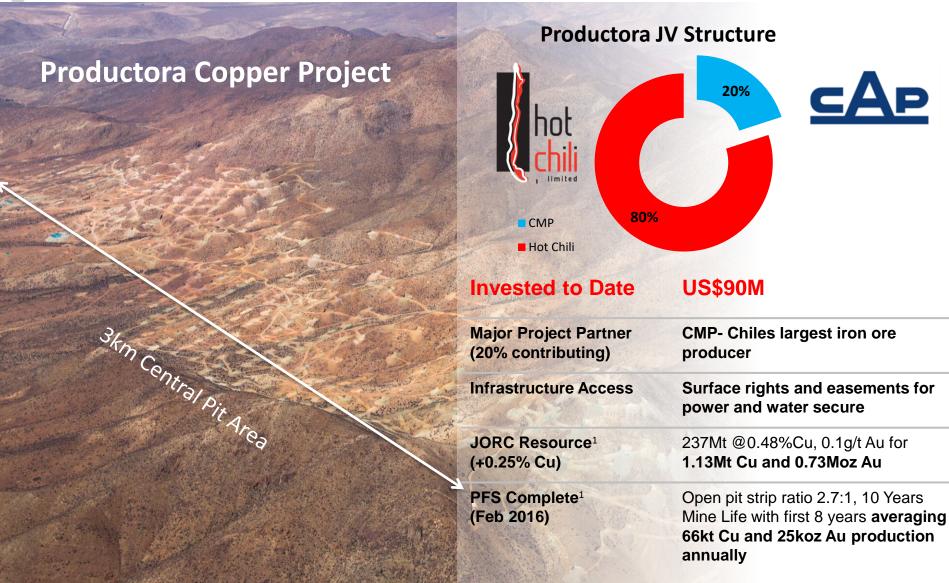
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<sup>\*</sup> Note- Based on PFS (2nd March 2016) 14Mtpa sulphide throughput only

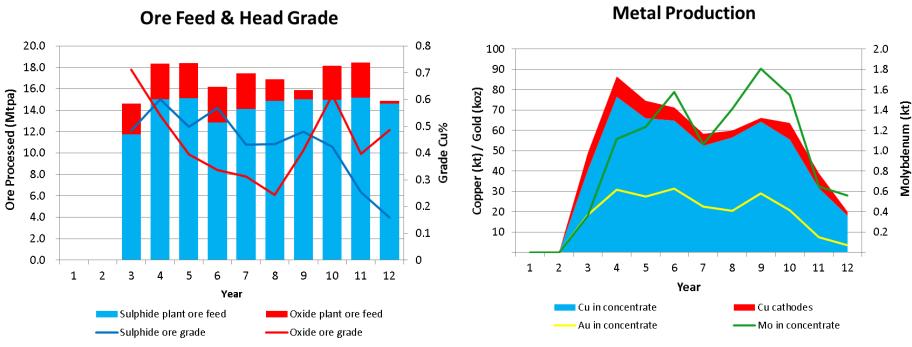
## Productora- Flagship Project





## Strong Foundation to Expand



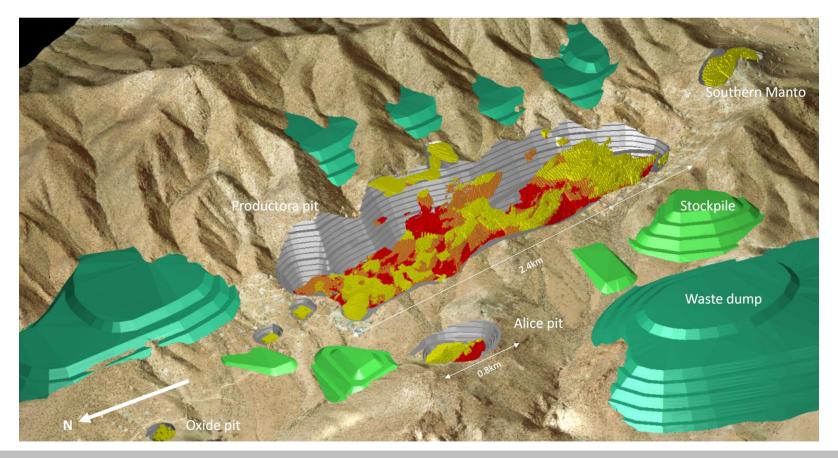


- PFS<sup>1</sup> planned large-scale, low cost copper processing facility
- Average throughput of 14.7Mtpa sulphide & 2.8Mtpa oxide over first 8 years
- Average annual copper production of 66kt over first 8 years of production (60 kt of Cu in concentrate and 6 kt of Cu cathode)

## 10 Years Mine Life Established



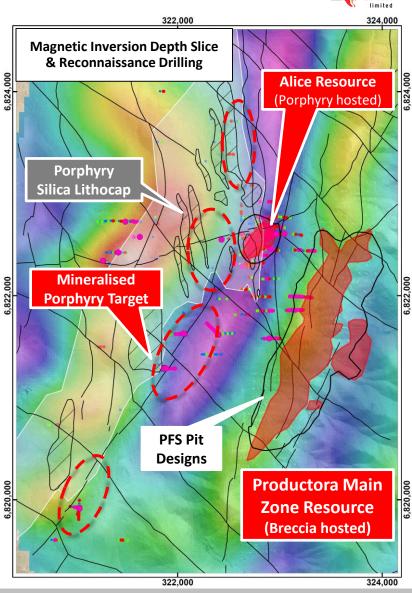
- Additional 6-7 years of bulk tonnage mine life<sup>1</sup> being pursued
- 10,000m of RC/DD reconnaissance drilling completed at Productora this year already



## Large-Scale Porphyry Copper Potential Confirmed

hot chil

- Four mineralised porphyry copper targets delineated from reconnaissance drilling
- Two shallow targets drill confirmed with wide, low-grade copper mineralisation intersected from surface
- Two deeper targets confirmed by pathfinder drilling intercepts (wide zones of +50ppm Mo)
- Phase 2 drilling programme being designed to test all four target areas
- Environmental applications for drill access underway



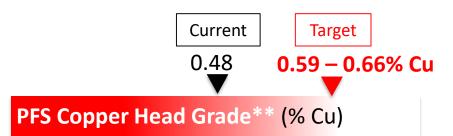
# **Building Productora into a Premier Copper Development**



## **High Grade Satellite Growth Target**

- Targeting minimum 10-12yrs of satellite Ore Reserve feed (1Mtpa)
- Target Mineralisation<sup>1</sup> of 10-12Mt@ 2.0-3.0% copper for 200-360kt Cu

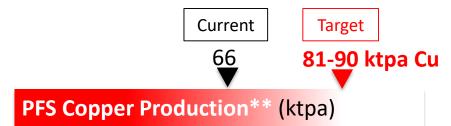
## Impact- ~30% increase to head grade at existing scale



#### Target Mineralisation Statement<sup>1</sup>

References to exploration target size target mineralisation in this presentation are conceptual in nature and should not be construed as indicating the existence of a JORC Code compliant mineral resource. Target mineralisation is based on projections of established grade ranges over appropriate widths and strike lengths having regard for geological considerations including mineralisation style, specific gravity and expected mineralisation continuity as determined by qualified geological assessment. There is insufficient information to establish whether further exploration will result in the determination of a mineral resource within the meaning of the JORC Code.

## Impact- ~30% increase to metal production at existing scale

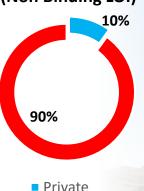


<sup>\*\*</sup> Note- Not including PFS (2<sup>nd</sup> March 2016) low grade stockpiles

## New High Grade Satellite Added







Trucking 20km directly east of Productora

Hot Chili

Historical UG Mine Production

Distance

Total of **2Mt grading 2% Cu, 0.5g/t gold** extracted over 200m strike, 130m depth and 7-30m width

Landholding/ Ownership

12 mining leases for1,566 Ha,

Privately held and mined since 1964

Exploration Potential

2.5km strike extent potential and 9 historical drill holes complete to date

San Antonio HG Satellite Copper Project



## 20m to 30m Development Widths





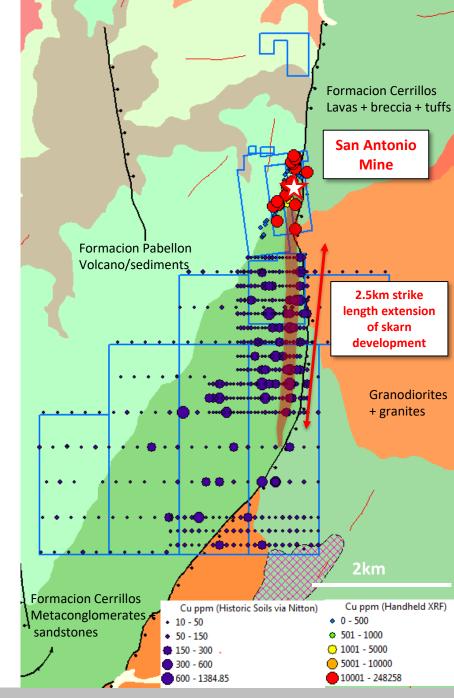


- Substantial underground mine
- Construction of digital underground
   3D mine model has commenced

- Total historical production of 2Mt grading2% copper and 0.5g/t gold
- Sulphide copper associated with chalcopyrite, bornite, pyrrhotite and magnetite

# Large Potential Recognised

- Andesite hosted mineralisation within a sequence of moderately east-dipping sandstone and limestone units
- Extensive skarn alteration adjacent to a granitic contact- 2.5km of southern strike extension potential
- 9 surface holes drilled to date
- Logistical planning underway ahead of environmental application for drill access

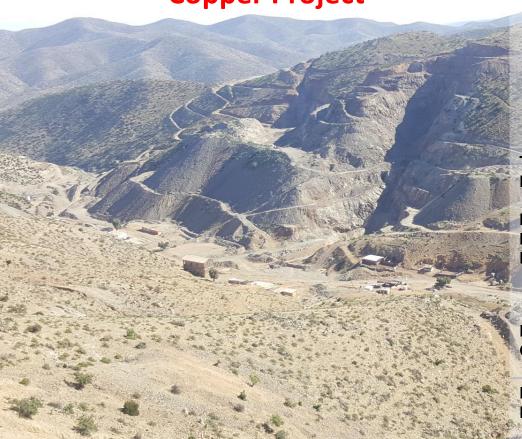


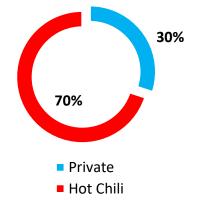
# Second High Grade Satellite Added



**Lulu Copper Project JV Option** (Non binding LOI)







**Trucking** 30km directly west of Productora **Distance** 

Historical UG Mine Production

Direct extension of substantial UG mine reportedly developed to 600m depth extracting widths of 1.5m to 2m with average grade of 6% Cu and 3g/t Au

Landholding/ **Ownership** 

2 mining leases for 40 Ha, Privately held since 1932

**Exploration** Potential

800m direct strike extension potential confirmed at surface, no drill holes ever undertaken

## **Historical High Grade Mining Centre**

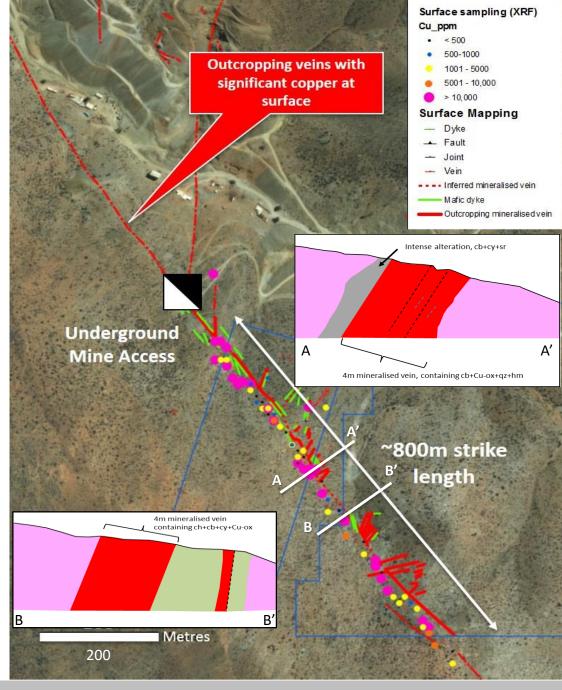


- One of the highest grade historical mining centres in the region, commenced by
   British in 1860's, supporting a population of approximately 5,000 people at its peak
- Exploited vein widths up to 7m with grades averaging 12% copper and 5g/t gold
- Copper sulphide associated with chalcopyrite, bornite and minor covellite



# 800m Extension of Main Structure Confirmed at Lulu

- Detailed structural mapping and surface geochemistry programme underway
- 800m strike length of main ore hosting vein over widths ranging from 70cm to 4.1m
- Logistical planning being undertaken ahead of environmental application for drill access



## Put Hot Chili on Your Watchlist!



- Copper price is rising
- And with that, the value of Hot Chili's existing large scale copper development
- Exceptional growth opportunities that have the potential to add scale and grade
- Partnerships for other expansion opportunities being evaluated
- Multiple activity streams underway to prepare for drilling high grade and bulk tonnage resource growth potential once environmental approvals are received
- Successful results over the coming 6 to 12 months have the potential to establish
   Hot Chili as the premier ASX listed copper developer

## **Qualifying Statements**



#### Mineral Resource and Ore Reserve Confirmation

The information in this presentation that relates to Mineral Resources and Ore Reserve estimates on the Productora copper project was previously reported in the ASX announcement "Hot Chili Delivers PFS and Near Doubles Reserves at Productora" dated 2<sup>nd</sup> March 2016, a copy of which is available on the ASX website at <a href="www.asx.com.au">www.asx.com.au</a> and the Company's website at <a href="www.hotchili.net.au">www.hotchili.net.au</a>. The company confirms that it is not aware of any new formation or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in that 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 market announcement.

#### Productora Project Ore Reserve Statement, March 2016 <sup>1</sup>

Ore Type	Reserve Category	Tonnage	Grade			<b>Contained Metal</b>			Payable Metal		
			Cu	Au	Мо	Copper	Gold	Molybdenum	Copper	Gold	Molybdenum
		(Mt)	(%)	(g/t)	(ppm)	(tonnes)	(ounces)	(tonnes)	(tonnes)	(ounces)	(tonnes)
Oxide		24.1	0.43	0.08	49	103,000	59,600	1,200	55,600		
Transitional	Probable	20.5	0.45	0.08	92	91,300	54,700	1,900	61,500	24,400	800
Fresh		122.4	0.43	0.09	163	522,500	356,400	20,000	445,800	167,500	10,400
Total	Probable	166.9	0.43	0.09	138	716,800	470,700	23,100	562,900	191,900	11,200

Note 1: Figures in the above table are rounded, reported to two significant figures, and classified in accordance with the Australian JORC Code 2012 guidance on Mineral Resource and Ore Reserve reporting. Note 2: Price assumptions: Cu price - US\$3.00/lb; Au price US\$1200/oz; Mo price US\$14.00/lb. Note 3: Mill average recovery for fresh Cu - 89%, Au - 52%, Mo - 53%. Mill average recovery for transitional; Cu 70%, Au - 50%, Mo - 46%. Heap Leach average recovery for oxide; Cu - 54%. Note 4: Payability factors for metal contained in concentrate: Cu - 96%; Au - 90%; Mo - 98%. Payability factor for Cu cathode - 100%.





#### **Productora Project Higher Grade Resource, March 2016**

	-	Grade				Contained Metal			
		Tonnage	Cu	Au	Mo	Copper	Gold	Molybdenum	
Deposit	Classification	(Mt)	(%)	(g/t)	(ppm)	(tonnes)	(ounces)	(tonnes)	
	Indicated	166.8	0.50	0.11	151	841,000	572,000	25,000	
Productora	Inferred	51.9	0.42	0.08	113	219,000	136,000	6,000	
	Sub-total	218.7	0.48	0.10	142	1,059,000	708,000	31,000	
Alice	Indicated	15.3	0.41	0.04	42	63,000	20,000	600	
	Inferred	2.6	0.37	0.03	22	10,000	2,000	100	
	Sub-total	17.9	0.41	0.04	39	73,000	23,000	700	
Combined	Indicated	182.0	0.50	0.10	142	903,000	592,000	26,000	
	Inferred	54.5	0.42	0.08	109	228,000	138,000	6,000	
	Total	236.6	0.48	0.10	135	1,132,000	730,000	32,000	

Reported at or above 0.25 % Cu. Figures in the above table are rounded, reported to two significant figures, and classified in accordance with the Australian JORC Code 2012 guidance on Mineral Resource and Ore Reserve reporting. Metal rounded to nearest thousand, or if less, to the nearest hundred.

#### **Productora Project Low Grade Resource, March 2016**

			Grad	le		Contained Metal				
		Tonnage	Cu	Au	Mo	Copper	Gold	Molybdenum		
Deposit	Classification	(Mt)	(%)	(g/t)	(ppm)	(tonnes)	(ounces)	(tonnes)		
Productora	Indicated	150.9	0.15	0.03	66	233,000	170,000	10,000		
	Inferred	50.7	0.17	0.04	44	86,000	72,000	2,000		
	Sub-total	201.6	0.16	0.04	60	320,000	241,000	12,000		
Alice	Indicated	12.3	0.14	0.02	29	17,000	7,000	400		
	Inferred	4.1	0.12	0.01	20	5,000	2,000	100		
	Sub-total	16.4	0.13	0.02	27	22,000	9,000	400		
Combined	Indicated	163.2	0.15	0.03	63	250,000	176,000	10,000		
	Inferred	54.8	0.17	0.04	43	91,000	74,000	2,000		
	Total	218.0	0.16	0.04	58	341,000	250,000	13,000		

Reported at or above 0.1% Cu and below 0.25% Cu. Figures in the above table are rounded, reported to two significant figures, and classified in accordance with the Australian JORC Code 2012 guidance on Mineral Resource and Ore Reserve reporting. Metal rounded to nearest thousand, or if less, to the nearest hundred. Metal rounded to nearest thousand, or if less, to the nearest hundred.

## **Qualifying Statements**



#### **Competent Person's Statement**

#### **Exploration Results**

Exploration information in this Presentation is based upon work undertaken by Mr Christian Easterday, the Managing Director and a full-time employee of Hot Chili Limited whom is a Member of the Australasian Institute of Geoscientists (AIG). Mr Easterday has sufficient experience that is 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' (JORC Code). Mr Easterday consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.

#### **Mineral Resources**

The information in this Presentation that relates to the Productora Project Mineral Resources, is based on information compiled by Mr J Lachlan Macdonald and Mr N Ingvar Kirchner. Mr Macdonald is an employee of Hot Chili Ltd and is a Member of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr Kirchner is employed by AMC Consultants (AMC). AMC has been engaged on a fee for service basis to provide independent technical advice and final audit for the Productora Project Mineral Resource estimates. Mr Kirchner is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM) and is a Member of the Australian Institute of Geoscientists (AIG). Both Mr Macdonald and Mr Kirchner have sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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' (the JORC Code 2012). Both Mr Macdonald and Mr Kirchner consent to the inclusion in the report of the matters based on their information in the form and context in which it appears.

#### **Ore Reserves**

The information in this Presentation that relates to Productora Project Ore Reserves, is based on information compiled by Mr Carlos Guzmán, Mr Boris Caro, Mr Leon Lorenzen and Mr Grant King. Mr Guzmán is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM), a Registered Member of the Chilean Mining Commission (RM- a 'Recognised Professional Organisation' within the meaning of the JORC Code 2012) and a full time employee of NCL Ingeniería y Construcción SpA (NCL). Mr Caro is a former employee of Hot Chili Ltd, now working in a consulting capacity for the Company, and is a member and is a Member of the Australasian Institute of Mining and Metallurgy (AusIMM) and a Registered Member of the Chilean Mining Commission. Mr Lorenzen is employed by Mintrex Pty Ltd and is a Chartered Professional Engineer, Fellow of Engineers Australia, and is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr King is employed by AMEC Foster Wheeler (AMEC FW) and is a Member of the Australasian Institute of Mining and Metallurgy (AusIMM). NCL, Mintrex and AMEC FW have been engaged on a fee for service basis to provide independent technical advice and final audit for the Productora Project Ore Reserve estimate. Mr. Guzmán, Mr Caro, Mr Lorenzen and Mr King have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity which they are 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'. Mr Guzmán, Mr Caro, Mr Lorenzen and Mr King consent to the inclusion in the report of the matters based on their information in the form and context in which it appears.

## **Qualifying Statements**



#### **Target Mineralisation Statement**

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## **Hot Chili Limited**

ACN 130 955 725 **ASX: HCH** 

Level 1, 768 Canning Highway, Applecross, Western Australia 6153

**P**: +61 8 9315 9009 **F**: +61 8 9315 5004

www.hotchili.com.au

