

# Mt Ararat VMS Copper-Gold-Zinc Project – JORC Mineral Resource Update

11% increase in resource tonnage as a result of FY 2015 drilling

Stavely Minerals Limited ("Stavely Minerals", ASX Code: **SVY**) is pleased to report an updated JORC Mineral Resource estimate for its 100%-owned Mt Ararat Besshi-style Volcanogenic Massive Sulphide (VMS) copper-gold-zinc deposit (Figure 1).

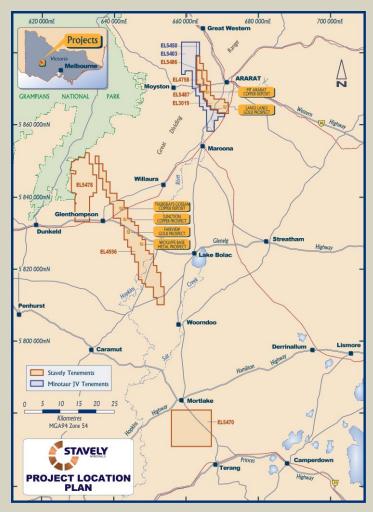


Figure 1. Project location plan.

Drilling completed during the 2015 financial year has provided additional data, defining an extension of the existing mineralisation at Mt Ararat further to the north. In addition, the increased data density and confirmation of historical drill-hole grades and widths by more recent drilling has also provided an increase in the confidence of a portion of the deposit, allowing elevation of some of the copper resources into the Indicated Resource classification.

The Total Mineral Resources estimate for the Mt Ararat copper-gold-zinc deposit now stands at **1.3** million tonnes grading **2.0%** copper, **0.5** g/t gold, **0.4%** zinc and **6** g/t silver including **0.25** million tonnes grading **2.2%** copper in the Indicated Resources category with the remainder classified as



Inferred Resources. The 2015 Mount Ararat Mineral Resource Estimate is presented in Table 1 below:

Reporting Classification **Domain** Tonnes: Cu Cu Tonnes: Au, Ag, Zn Au Grade Ag Grade Zn Grade Threshold Resource Grade Resource (KT) (ppm) (ppm) (%) (KT) (%) 50 2.4 Indicated Supergene Fresh 200 2.2 1.0% Cu 250 **Total** 2.2 Inferred Weathered 170 1.7 170 0.5 3.1 0.1 30 2.2 80 0.4 4.4 0.4 Supergene Fresh 870 1.9 1070 0.5 6.2 0.4 Total 1070 1.9 1320 0.5 5.7 0.4 Total 1% Cu 2.0 5.7 1320 1320 0.5 0.4 Indicated 30 2.9 Supergene Fresh 80 2.9 2.0% Cu **Total** 110 2.9 Weathered 30 2.9 30 7.9 0.2 Inferred 1.3 20 50 0.4 Supergene 3.0 0.3 4.2 Fresh 230 3.0 310 0.6 7.7 0.6 **Total** 280 3.0 390 0.6 7.3 0.5 Total 2% Cu 390 2.9 390 0.6 7.3 0.5

Table 1. The Mount Ararat Resource Estimate

Table shows rounded estimates. This rounding may cause apparent computational discrepancies. Significant figures do not imply precision. Nominal copper grade reporting cuts applied. Three material types reported as varied economic factors will be applicable to the deposit base on reported material types.

The 2015 Mt Ararat Copper Resource Estimate has been classified as Indicated and Inferred Resources under guidelines set out in the JORC Code (2012 Edition). The gold, silver and zinc estimates are classified as Inferred Resources. The 2015 Mineral Resource estimate represents, based on a 1% Cu cut-off, an 11% increase in total tonnes compared with the previous resource estimate to 1.3 million tonnes at 2.0% copper, 0.5 g/t gold, 0.4% zinc and 6 g/t silver.

The Mt Ararat Mineral Resource now hosts an estimated **26,000 of contained copper, 21,000 ounces of contained gold, 5,300t of contained zinc and 242,000 ounces of contained silver.** 

As part of Stavely Minerals' annual review of Mineral Resources as required by ASX Listing Rule 5.21, the Mineral Resources at the Thursday's Gossan porphyry prospect were also reviewed. While drilling was undertaken in the area targeting well-developed primary porphyry coppergold mineralisation at depth, no drilling was completed in the area of the existing secondary-enriched copper mineralisation. Consequently, the Mineral Resources at Thursday's Gossan were reviewed in the context of the assumptions underpinning the 2013 Mineral Resources estimate. This review concluded that: "The Thursday Gossan Chalcocite Copper Inferred Resource Estimate, August 2015, remains unchanged from the Thursday Gossan Chalcocite Copper Inferred Resource Estimate, August 2013. There has been no additional data collected from the deposit and although economic circumstances affecting the mining industry have changed since 2013 the assumptions utilised in 2013 remain valid, if not for the current situation but for future situations."

Consequently, the Thursday's Gossan Inferred Mineral Resource estimate remains **28 million tonnes** at **0.4% copper for 110,000t of contained copper** (Table 2).



Table 2. The Thursday Gossan Chalcocite Copper Inferred Resource Estimate (reviewed in 2015)

Thursday Gossan Chalcocite Copper August 2013 Inferred Resources (JORC 2012 Edition)								
Copper Minerali	sation Subdivision	Lower Cu Cut (%)	Tonnes (MT)	Copper Grade (%)	Contained Copper (KT)			
reater ick	10 to 20m thick	0.20 0.30 0.50	8.5 4.5 0.5	0.3 0.4 0.7	28.1 18.4 3.4			
Mineralisation greater than 10m thick	Greater than 20m thick	0.20 0.30 0.50	14.4 9.7 3.1	0.4 0.5 0.8	61.7 49.7 24.8			
Mineralis	Sub Total (greater than 10m thick)	0.20 0.30 0.50	22.9 14.2 3.7	0.4 0.5 0.8	89.8 68.0 28.2			
Mineralisation lo	Mineralisation less than 10m thick		5.1 2.5 0.2	0.3 0.4 0.9	17.1 10.6 2.1			
Total Mineralisation		0.20 0.30 0.50	28.1 16.7 3.9	0.4 0.5 0.8	106.9 78.6 30.3			

Table shows rounded estimates. This rounding may cause apparent computational discrepancies. Significant figures do not imply precision. Nominal copper grade reporting cuts applied. Three mineralised thicknesses reported as varied economic factors are likely to be applicable to each.

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# **JORC Compliance Statement**

The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Chris Cairns, a Competent Person who is a Member of the Australian Institute of Geoscientists. Mr Cairns is a full-time employee of the Company. Mr Cairns is the Managing Director of Stavely Minerals Limited, is a substantial shareholder of the Company and is an option holder of the Company. Mr Cairns has 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'. Mr Cairns consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

With respect to reporting of the Mineral Resources at the Mt Ararat VMS copper-gold-zinc deposit and Thursday's Gossan chalcocite copper deposit, the information is extracted from the report entitled "Mount Ararat 2015 Resource Report" dated 24 August 2015 and "Appendix 1, Reporting of Thursday Gossan Chalcocite Copper Resource against criteria in Table 1 JORC Code 2012" authored by Mr Duncan Hackman of Hackman and Associates Pty Ltd. Mr Hackman is a Member of the Australian Institute of Geoscientists and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity 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 Edition). Mr Hackman consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.



### **Appendix 1: Mt Ararat Mineral Resource Estimate**

#### Summary:

The Mount Ararat August 2015 Inferred Resource Estimate is an inverse distance squared Cu, Au, Ag and Zn estimate of the planar, steeply dipping VMS style mineralisation of the deposit and is tabulated below. The estimate was undertaken, classified and reported according to the guidelines set out in The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserve (the JORC Code, 2012 Edition).

#### The Mount Ararat Resource Estimate:

Reporting	Classification	Domain	Tonnes: Cu	Cu Grade	Tonnes: Au, Ag, Zn	Au Grade	Ag Grade	Zn Grade
Threshold			Resource (KT)	(%)	Resource (KT)	(ppm)	(ppm)	(%)
		Supergene	50	2.4				
	Indicated	Fresh	200	2.2				
		Total	250	2.2				
1.0% Cu		Weathered	170	1.7	170	0.5	3.1	0.1
1.0% Cu	Inferred	Supergene	30	2.2	80	0.4	4.4	0.4
	illielleu	Fresh	870	1.9	1070	0.5	6.2	0.4
		Total	1070	1.9	1320	0.5	5.7	0.4
	Total 1% Cu		1320	2.0	1320	0.5	5.7	0.4
		Supergene	30	2.9				
	Indicated	Fresh	80	2.9				
		Total	110	2.9				
2.0% Cu		Weathered	30	2.9	30	1.3	7.9	0.2
2.0% Cu	Inferred	Supergene	20	3.0	50	0.3	4.2	0.4
	illielleu	Fresh	230	3.0	310	0.6	7.7	0.6
		Total	280	3.0	390	0.6	7.3	0.5
	Total 29	% Cu	390	2.9	390	0.6	7.3	0.5

Table shows rounded estimates. This rounding may cause apparent computational discrepancies. Significant figures do not imply precision. Nominal copper grade reporting cuts applied. Three material types reported as varied economic factors will be applicable to the deposit base on reported material types.

# The estimate:

- Is based on recent 2014-15 Stavely Minerals drilling and historic drilling data which is of unknown reliability and quality that tests a discrete steeply dipping body of base metal mineralisation.
- Extends for a strike length of 830m (towards 335deg), vertically for 350m and ranges mostly between 1m and 3m thick (total massive + sub-massive + stringer mineralisation). The mineralisation is modelled between 4m and 14m thick in the upper 50m (this may be real, due to supergene actions or introduced due to the suspected wet/difficult RC drilling conditions).
- Is underpinned by 309 Cu assays from 64 holes (271 nominal 1m composites). High grade restrictions are applied to the Cu, Au, Ag and Zn grade interpolations (55m radius of influence). A tonnage factor of 3.17g/cc was applied to all mineralised blocks.
- Reconciles well both statistically and spatially with the source assay data.
- Was undertaken by Duncan Hackman who is a member of the Australian Institute of Geoscientists and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity 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 Edition).



# JORC 2012 Table 1, Sections 1, 2 and 3 criteria.

Section 1: Sampling Techniques and Data

Criteria	Explanation								
Sampling techniques	Resource estima	ate underpinne	ed by diamo	ond drilling (D	D) and reve	rse			
	Resource estimate underpinned by diamond drilling (DD) and reverse circulation drilling (RC) drilling samples.								
Drilling techniques	· Drilling det	tails for the Mo	ount Ararat	resource dril	lhole datase	t			
			Holes within	Mt Ararat Ho	les intercepting	g Mt Ararat			
	Company	Hole_Type	Prospec	t Area	Mineralisa	tion			
	Company	noic_rypc	Count	Average Total	Count Av	erage Total			
			count	Depth (m)	Count	Depth (m)			
	Pennzoil	DD	19	221	11	211			
	Centaur	DD	21	96	14	48			
		RC	22	47	20	48			
	Beaconsfie	ld DD	4	121	4	121			
		RC	6	27	6	27			
	SVY	DD	3	201	2	195			
		RC	7	122	7	122			
	· L	otal	82	114	64	91			
Drill sample recovery	No dotailo	d information	or data:						
Dim sample recovery				h - l !	. 41				
		ports state tha			•				
		, and RC drillin	_						
	oxidized m	ineralized zon	e. Limited	data indicates	that sample	es from			
	this mater	al will be signi	ficantly cor	npromised by	drilling and	samplin			
		encountered.		,					
	Containions	cheodinered.							
Logging	· lithologica	drill logs gene	erated by w	orkers but no	t utilised in	generatii			
	resource e		cracea by w	orkers but no	t atmoca m	Бенегасп			
Sub-sampling techniques and		Half-core samp	nles were ta	ken from cor	e showing v	isihle			
		•	oles were te	aken nom cor	c snowing v	isibic			
sample preparation	mineralisation.								
	· Centaur Mining:								
	o MA24 to MA38: Half-core samples were taken from core showing								
	visible mineralisation. Sample reduction process unknown.								
	o MA39	9A to MA58: 1	.30mm RC o	hips from dril	ling configu	ration			
	utilisi	ng back-end ci	ross-over su	ub to return sa	ample. Sam	ple			
		tion by splittir							
		• •	ig (actails c	ilikilowilj alia	Sumple rea	action			
	•	process unknown.  o M94_1 to M94_4: Half-core samples were taken from core							
	_			-					
		ing visible min	eralisation.	Sample redu	ction proces	SS			
	unkn	own.							
	· Beaconsfie	eld Gold:							
	O ARDO	01 to ARD004	: diamond	drilling – sami	oling metho	d and			
		tion unknown							
				chine Cample	sallastad b	v naccine			
		01 to ARC006:							
		gh 3 tiered riff	le splitter.	Sample reduc	ction proces	S			
	unkn	own.							
	<ul> <li>Stavely Mi</li> </ul>	nerals:							
	o SADD	001 to SADD0	03: diamor	nd drilling - 1/2	HQ core sar	npled by			
		saw. Crush-sp		_		-			
		00[1,2,4 - 9]:  I	•	•	_				
		rise to 85% pa	_	•	. Crush-spili	unu			
Quality of assay data and	·	A base metal s			(digestion r	not			
		and Au was ass		-	luigestion i	101			
laboratory tests	• •		Jayea via III	c assay.					
	· Centaur Mining:								
	<ul> <li>MA24 to MA38: A base metal suite was assayed via AAS (digesti</li> </ul>								
		pecified) and A		yed via fire as	say.				





Criteria	Explanation
	<ul> <li>(digestion not specified) and Au was assayed via fire assay.</li> <li>M94_1 to M94_4: A base metal suite was assayed 4 acid digest with AAS finish and Au was assayed via fire assay.</li> <li>Beaconsfield Gold:         <ul> <li>ARD001 to ARD004: Assay Lab – Onsite Lab Services. Cu initially by method B101 - AR digest ICP finish. If higher than 5000ppm then A101 - Ore grade digest (details unknown) with AA finish. Au by PE01S - 25g Fire Assay.</li> <li>ARC001 to ARC006: Assay Lab – Onsite Lab Services. Cu initially by method B101 - AR digest ICP finish. If higher than 5000ppm then A101 - Ore grade digest (details unknown) with AA finish. Au by PE01S - 25g Fire Assay.</li> <li>No quality control samples submitted with any historic routine samples</li> <li>Stavely Minerals:</li></ul></li></ul>
Verification of sampling and assaying	No available data available for analysis
Location of data	<ul> <li>Historic drillholes originally located according to two local grids (details unknown). Collar coordinates were converted to GDA94 zone 54S (MGA94 54S) by historic workers. Conversion details are unknown. Stavely Minerals holes located in MGA94 54S. The estimate is undertaken using the supplied MGA94 54S grid references.</li> <li>GPS checking of 2 Pennzoil, 3 Centaur Mining and 4 Beaconsfield Gold hole collar locations show holes located with acceptable accuracy for reporting of Inferred and Indicated Resources.</li> </ul>
Data spacing and distribution	<ul> <li>Within the central 500m of mineralisation (strike length):</li> <li>Oxide mineralisation – drill tested on 50m centred section lines</li> <li>Fresh Indicated Resources –tested at nominal 50m centres.</li> <li>Other areas and mineralisation extent tested by 8 holes</li> </ul>
Orientation of data in relation to geological structure	<ul> <li>Holes angled mostly between 50 and 70 degrees easterly. Mineralised plane dips westerly ~60degrees</li> <li>Holes drilled mostly at 80° (azimuth) and 40-50° (sectional) to planar mineralisation.</li> </ul>
Sample security	No available data to assess security
Audits or reviews	<ul><li>GPS checking of 9 hole collar locations</li><li>Basic checking of data integrity</li></ul>

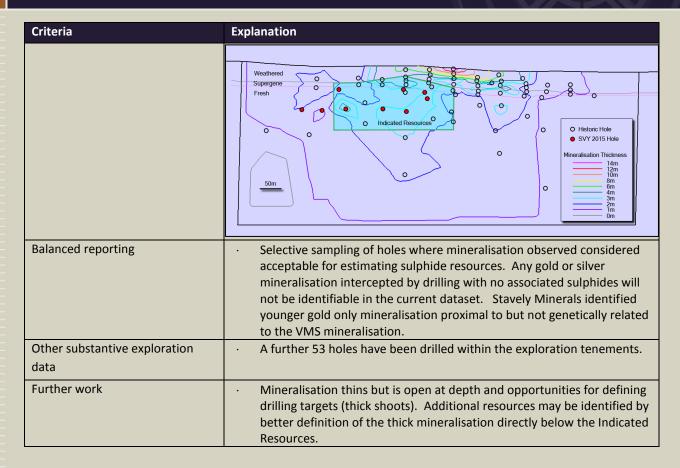
# **Section 2: Reporting of Exploration Results**

Criteria	Explanation
Mineral tenement and land tenure status	<ul> <li>Mineralisation straddles boundary between exploration licences EL4758 (expired 28/01/2014) and EL3019 (expired 21/12/2014) and is within Retention Licence application RL2020. SVY's tenure over the area covered by expired licences EL4758 and EL3019 remains current pending the grant of the retention licence.</li> <li>Tenements currently held by Stavely Minerals Limited</li> <li>Stavely Minerals have informed HA that the licences are in good standing.</li> </ul>
Exploration done by other parties	<ul> <li>Pennzoil: 12 holes drilled into mineralisation.</li> <li>Centaur Mining: 38 holes drilled into mineralisation.</li> <li>Beaconsfield Gold: 10 holes drilled into mineralisation</li> </ul>



Criteria	Explana	ition								
	· Sta	avely Min	erals: 9	holes d	rilled in	ito mine	ralisati	on		
Geology		Steeply westerly dipping, single planar massive sulphide horizon (historically described as VMS)								
Drill hole Information	· Co	holes dri ineralisati ollar locat ownhole s ailable fo	ion, 5 ho ions veri surveys f	les defii fied as a or descr	ne the s occepta	strike ex ble thro	tent of ugh fie	minera Id chec	lisation. king of 9	holes
	HoleID	Number of DH Surveys	TDepth Hole	HoleID	Numbe DH Surv		Depth H		Number of OH Surveys	TDepth Hole
	ARD001 ARD002	3	111 114	PENZ003 PENZ006		1 1	152 S	ADD001 ADD002	7 6	192.9 197.8
	ARD003 ARD004 M94_1	5 5 4	142 118 221	PENZ009		1 1	219 S	ADD003 ARC001 ARC004	8 12 16	212.8 114.0 153.0
	M94_2 M94_3	4	198 192	PENZ011		1 6	381 S	ARC005 ARC006	15 13	135.0 123.0
	M94_4 M94_5 M94_6	4 6 4	204 249 214	PENZ023		3 4	329 S	ARC007 ARC008 ARC009	9 14 12	80.0 129.0 123.0
	PENZ001	saying of	133	SP02	oggod v	1	111			
Data aggregation methods	· Ox · Su · 39		tate ava noisture suremen	lable fo data ava ts taken	r 34 Ce ailable t	ntaur M for 18 Ce	entaur	Mining		
Data aggregation methods	Assay sample intervals:      Count of Sample Lengths									
	Era	Drill Type	0.0m to 0.5m	0.5m to 1m	1.0m to 1.5m	1.5m to	2.0m to 2.5m	2.5m t		Total
	pre-201	AC DD RC UNKN	43 65	55 48 105 176	11	6	1	L	1 1	55 110 105 247
	2015	DD RC		143 342						143 342
		otal omposited	108 d to 1m i	869 ntervals	for res		stimate		1 1	1002
Relationship between mineralisation widths and	· No	apparer ineralisat	nt associa ion style	ation wh	ien dat own.	a assess	ed by d	Irill type		
intercept lengths	Dri	gnificant i ill Type amond	N	umber	Total	Average Intercept		_	de (ppm) Ag	Zn 4384
	Rec	Smear Smear sample Prefer biased Both t mater	ing and/ es may bential lool the DD he RC ar	or prefe se prese ss of fria drill sam d DD da significa	erential nt in RC able non apple ass atasets atty diff	C drill san n-minera say data may be ferent te	d/or cromple as alised noset preference of	0.23 oss-conf ssay dat naterial	amination aset. may have	1614 on of ve
Diagrammes		storic cro ng sectio		-						





**Section 3: Estimation and Reporting of Mineral Resources** 

Criteria	Explanation
Database integrity	Data management protocols and provenance unknown
	Limited cross checks with paper records of drill hole and assay data
	Field verification of 9 hole collar locations.
	Relational and spatial integrity assessed and considered acceptable.
Site visits	Not undertaken by CP
	Stavely Minerals' personnel verify existence of core. CP has viewed photos
	of chip trays with mineralisation taken by Stavely Minerals' Personnel.
Geological interpretation	Single planar mineralised massive sulphide body interpreted and modelled
	for grade interpolation.
	Oxide state modelled and utilised for reporting of resource estimate.
Dimensions	Mineralisation extends for a strike length of 830m (towards 335deg),
	vertically for 350m and ranges mostly between 1m and 3m thick (total
	massive + sub-massive + stringer mineralisation). The mineralisation is
	modelled between 4m and 14m thick in the upper 50m (this may be real,
	due to supergene actions or introduced due to the suspected wet/difficult
	RC drilling conditions)
	The block model and grade estimate encompasses the extent of the
	mineralisation.
Estimation and modelling	Copper, gold, silver and zinc grades were interpolated into a Vulcan <sup>™</sup> non-
techniques	regular block model with 10x10x10 metre parent blocks – subblocked to
	1x1x1 metre minimum block dimensions.
	1m composite intervals utilised.
	Grades greater than:
	6%Cu,
	2.50ppmAu,
	15ppmAg,





Criteria	Explanation
	1%Zn,
	were restricted to inform blocks within a 55m radius of their location.
	Single pass ID2 interpolation run employed utilising 400m sample search
	within the plane of mineralisation.
	Minimum of 20 and maximum of 40 composites utilised to estimate grade.
	The Mt Ararat resource is classified as Inferred under the guidelines set out
	in the 2012 JORC Code.
Moisture and recovery	15 of 18 RC holes drilled by Centaur Mining encountered wet drilling through
,	the mineralisation. Grade profiles suggest down hole smearing of grade
	(cross-contamination) in the oxide/supergene mineralisation.
	Core recovery averages 85% through the oxide/weathered mineralisation,
	down from >97% recorded for the supergene and primary mineralisation.
	There is no information or data to assess the affect core loss has on grade.
Cut-off parameters	The resource is reported by mineralisation thickness and oxidation state.
·	Cuts of 0.5%, 1.0% and 2.0% copper were applied. These breakdowns and
	grade tonnage plots are reported to allow differing economic assessment on
	the project.
Mining factors or assumptions	Not applied, however resource is reported at 1m and 2m thicknesses and by
	oxidation state to allow for assessment of both underground and open cut
	mining methods.
Metallurgical factors or	Not evaluated as risks associated with historic data over-riding feature
assumptions	affecting the confidence of the estimate.
Environmental factors or	Not evaluated as risks associated with historic data over-riding feature
assumptions	affecting the confidence of the estimate.
Bulk Density	A single tonnage factor of 3.17 tonnes/m³ was applied to all mineralisation.
Classification	The estimate is classified as Inferred under the JORC Code (2012 Edition).
	Absence of QA/QC and important data for evaluating risk to the estimate
	(such as recover and moisture versus grade) are key factors in assigning an
	Inferred Classification.
Audits or reviews.	No Audit or Review of estimate undertaken.
Discussion of relative accuracy/	Not undertaken other than that stated under the classification section.
confidence	



# **Appendix 2: Thursday's Gossan Mineral Resource Estimate** Summary:

The Thursday Gossan Chalcocite Copper Inferred Resource Estimate, August 2015, remains unchanged from the Thursday Gossan Chalcocite Copper Inferred Resource Estimate, August 2013. There has been no additional data collected from the deposit and although economic circumstances affecting the mining industry have changed since 2013 the assumptions utilised in 2013 remain valid, if not for the current situation but for future situations. Stavely Minerals have advised that tenure over the Thursday Gossan Chalcocite deposit is in good standing and that there are no impediments to undertaking further evaluation of the deposit.

Details of the 2013 resource estimate have been reported in "Thursday Gossan Copper, Victoria, Australia, 2013 Resource Estimate Report" prepared for Northern Platinum Pty Ltd, a forerunner for Stavely Minerals Limited who now hold tenure over the project area. The following summary of the 2013 Inferred Resource Estimate applies to the 2015 resources publically stated by Stavely and is repeated here unchanged to support their statement. The reader can substitute 2015 for 2013 and Stavely Minerals for Northern Platinum in the text on the following pages.

The Thursday Gossan Chalcocite Copper August 2013 Inferred Resource estimate is an inverse distance squared Cu estimate of the tabular sub-horizontal supergene style mineralisation of the deposit and is tabulated below. The estimate was undertaken, classified and reported according to the guidelines set out in *The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserve (the JORC Code, 2012 Edition)*.

# The Thursday Gossan Chalcocite Copper Inferred Resource Estimate:

Thursday Gossan Chalcocite Copper August 2013 Inferred Resources (JORC 2012 Edition)								
Copper Mineralisation Subdivision		Lower Cu Cut (%)	Tonnes (MT)	Copper Grade (%)	Contained Copper (KT)			
greater hick	10 to 20m thick	0.20 0.30 0.50	8.5 4.5 0.5	0.3 0.4 0.7	28.1 18.4 3.4			
Mineralisation greation thick	Greater than 20m thick	0.20 0.30 0.50	14.4 9.7 3.1	0.4 0.5 0.8	61.7 49.7 24.8			
Minera	Sub Total (greater than 10m thick)	0.20 0.30 0.50	22.9 14.2 3.7	0.4 0.5 0.8	89.8 68.0 28.2			
Mineralisation less than 10m thick		0.20 0.30 0.50	5.1 2.5 0.2	0.3 0.4 0.9	17.1 10.6 2.1			
Total Mineralisation		0.20 0.30 0.50	28.1 16.7 3.9	0.4 0.5 0.8	106.9 78.6 30.3			

Table shows rounded estimates. This rounding may cause apparent computational discrepancies. Significant figures do not imply precision. Nominal copper grade reporting cuts applied. Three mineralised thicknesses reported as varied economic factors are likely to be applicable to each.

## The estimate:

- Is based on historic drilling data of unknown reliability and quality however there are no obvious reasons to question that the holes were drilled to test a flat lying supergene copper deposit.
- Extends intermittently for a strike length of 4000m (NS) a breadth of 1500m and vertically up to 60m thick. The model includes prospects known as Thursday Gossan Chalcocite Copper, Junction and Drysdale.



- Is underpinned by 2355 Cu assays from 225 holes (1493 nominal 3m composites). Cu grades were
  interpolated without any cuts or restrictions. A tonnage factor of 2.10g/cc was applied to all
  mineralised blocks.
- Reconciles well both statistically and spatially with the source assay data.
- Was undertaken by Duncan Hackman who is a member of the Australian Institute of Geoscientists
  and has sufficient experience relevant to the style of mineralisation and type of deposit under
  consideration and to the activity 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 Edition).

# JORC 2012 Table 1, Sections 1, 2 and 3 criteria.

Section 1: Sampling Techniques and Data

Section 1: Sampling Technique Criteria		ion							
	Explanat								
Sampling techniques	Resource (AC), rev samples: Pennzoil observed sampling North (4 sampled Beacons holes we	Resource estimate underpinned by diamond drilling (DD), aircore drilling (AC), reverse air blast drilling (RAB) and reverse circulation drilling (RC) samples:  Pennzoil (1 RC, 14 RAB holes): 2m Samples selected where mineralisation observed. 13 RAB holes sampled every alternate 2m intervals. No details or sampling methods.  North (4 DD, 1 AC, 85 RAB) and Newcrest (3 DD): Diamond holes ½ core sampled. No details on sampling of RC, RAB and Aircore holes.  Beaconsfield Gold (2 DD, 78 AC): Diamond holes ½ core sampled. Aircore holes were sampled by spearing of material on 2m or 3m intervals where no mineralisation was observed and on 1m intervals where mineralisation was							
			obse	rved and on	1m interval	s where min	eralisation v	was	
	observed								
		oup (26 A0	•						
Drilling techniques	Drilling d	etails for	the To	C resource	drillhole dat	aset			
	Drill Type	Company	Count	Av. DFrom to Min. Top (m)	Av. Dto to Min. Base (m)	Av. Min. Int Length (m)	Av. Cu (ppm)		
	AC	BCD North	78	32 20	56 62	24 42	4080 3090		
		TGM Group	26	33	55	22	3496		
	AC Total		105	32	56	24	3926		
		BCD	2	86	93	7	23586		
	DD	CRAE Newcrest	3	41 56	54 85	13 29	3237 3927		
		North	4	37	63	26	3541		
		Pennzoil	1	20	28	8	5250		
	DD Total	North	12 85	49 31	<b>69</b> 46	20 15	<b>7070</b> 2948		
	RAB	Pennzoil	14	22	35	13	2548		
	RAB Total		99	30	45	15	2897		
	RC	BCD	8	27	45	17	4498		
	RC Total	Pennzoil	9	24	34 43	32 <b>19</b>	11944 5326		
		ll Drilling	225	32	51	20	3697		
Drill sample recovery	Recover	v data ava	ilahle	for 2 DD ho	iles				
Logging		-			n available t	for all holos			
Logging			_						
		Incomplete oxidation-state and interval colour logging (utilised to determine							
		upergene							
Sub-sampling techniques and		,		•	etails on san	npling and sa	ample		
sample preparation	preparat	ion metho	odolog	y.					
	North (4	DD, 1 AC,	85 RA	B) and New	crest (3 DD)	: No details	sample		
	preparat	ion metho	odolog	Sy.					
	Beacons	field Gold	(2 DD	, 78 AC): No	o information	n on sample	preparation	1	
	methodo		•			1			
		oup (26 AC	:). No	dotaile					
	וטועוטו	up (20 AC	.). INO	uetalis					



Criteria	Explanation
Quality of assay data and	Pennzoil (1 RC, 14 RAB holes): A base metal suite was assayed via AAS
laboratory tests	(digestion not specified) and Au was assayed via fire assay.
	North (4 DD, 1 AC, 85 RAB) and Newcrest (3 DD): A base metal suite was
	assayed via Mixed Acid digest, AAS detection and Au was assayed via fire
	assay.
	Beaconsfield Gold (2 DD, 78 AC): OnSite Laboratory Services (Bendigo)
	analysed all samples for Cu by aqua regia digest ICP-OES detection and
	repeated assays for samples returning greater than 5000ppm Cu by Mixed
	Acid Digest ICP-OES detection. Au was assayed via fire assay.
	TGM Group (26 AC): No details. "Cherry-picking" of best assays from
	reassayed samples (85 of 160 substituted) has introduced a +10% relative
	bias for 9 holes used in the resource estimate.
	No QC samples were inserted into any of the sample batches from the
	Thursday Gossan drilling. No laboratory QC data was made available for
	assessment as part of this resource estimate.
	Beaconsfield Gold undertook a limited (selective) umpire laboratory
	programme (29 samples), entire residual material assaying (94 intervals) and
	66 sub-sample assays of residual material (66 intervals). These projects
	provide limited insight into sampling and assay reliability. This data indicates
	that:
	Both significant bias and precision issues are suspected in the Beaconsfield
	Gold dataset (OnSite Laboratory) and that there appears to be a period of
	instrument malfunction or systems/procedural breakdown at grades greater
	than 3000ppm Cu at the laboratory.
	The spear vs total sample dataset shows a significant relative bias in favour
	of the spear sample, manifesting greatest within samples containing higher
	copper grades.
Verification of sampling and	Beaconsfield Gold undertook a limited (selective) umpire laboratory
assaying	programme (29 samples), entire residual material assaying (94 intervals) and
	66 sub-sample assays of residual material (66 intervals). These projects
	provide limited insight into sampling and assay reliability.
Location of data	Holes within the Thursday Gossan area are recorded as being surveyed
	under three systems: AMG66 zone 54S, MGA zone 54 and GDA94 zone 54S.
	All coordinates were converted to GDA94 zone 54S by previous workers.
	These conversions have not been checked by NPT or HA. The August 2013
	estimate is undertaken using the supplied GDA94 54S grid references.
	Beaconsfield Gold holes were located by hand held GPS. No information on
	survey methods for other workers.
Data spacing and distribution	Area showing the thickest and highest tenor of mineralisation tested at
	nominal 50m centres by predominantly vertical holes.
	Areas less well mineralised tested mostly at 100m centres by vertical
	drillholes
Orientation of data in relation to	Drill orientation appropriate for testing of flat-lying mineralisation
geological structure	Underlying geology indicates that primary mineralisation may be sub
	vertical. Supergene mineralisation is controlled by pre-existing geology,
	groundwater movement and surface/weathering events. It is unknown from
	the current dataset if there is any sub-vertical fabric within the supergene
	mineralisation and if so then vertical holes will not adequately sample this
Complete	feature of the mineralisation.
Sample security	No available data to assess security
Audits or reviews	Basic checking of data integrity



Section 2: Reporting of Exploration Results

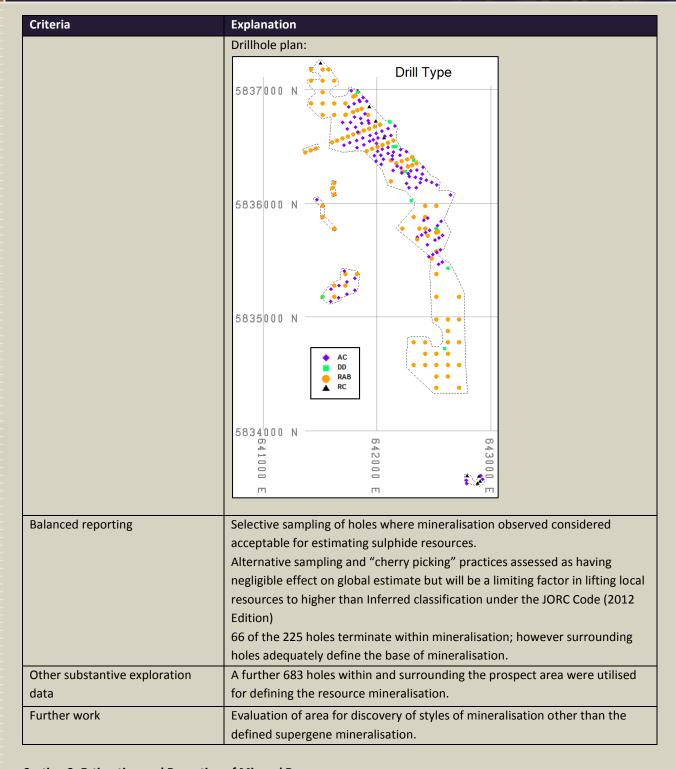
Section 2: Reporting of Exploration I	Results								
Criteria	Explanat	ion							
Mineral tenement and land	The mine	ralisation is	s situated w	ithin explo	oration lice	ence EL455	6 (expires		
tenure status	05/04/20	)14) which i	lisation is situated within exploration licence EL4556 (expires  1) which is currently held by Northern Platinum Pty Ltd. Northern						
			vises that th	•		-			
		-	ment of En			_			
		•	any reason			-			
	-		er term in 2			the terrent	eric being		
Exploration done by other parties		1 RC, 14 R		<del></del>					
Exploration done by other parties			35 RAB holes	c					
				3					
		up: 26 AC		halaa					
			2 DD, 78 AC				4: · D.		
		ield Gold:	Resource Es	stimate un	dertaken i	by Coffey N	lining Pty	Ltd	
	(2008)								
Geology			ent of hydro	•					
	_		nd covellite	have part	ially repla	ced pyrite a	and		
	chalcopy	rite grains.							
Drill hole Information	225 holes	s drilled in t	the prospec	t.					
	Collar loc	ations not	verified hov	vever plot	within acc	ceptable le	vels from		
	SRTM de	rived topog	raphic surfa	ace.					
	Downhol	e surveys fo	or describin	g hole trac	ce and san	nple locatio	ns availab	le	
	for 4 of 4	0 angled ho	oles. 185 ve	ertical hole	s drilled.				
	Pennzoil assayed intervals logged with visible sulphide mineralisation.								
		interval br							
				Count of	Sample Len	ngths			
	Drill Type	Company	0 to 1m	1 to 2m	2 to 3m	3 to 5m	Total		
		BCD	833	258	177	1	1269		
	AC	North		21	407		21		
	AC Total	TGM Group	833	279	187 364	1	187 <b>1477</b>		
	AcTotal	BCD	3	4	1	1	9		
		CRAE	1	10	2		13		
	DD	Newcrest	38	25			63		
		North	96	4			100		
	DD Total	Pennzoil	8 146	43	3	1	193		
	DD Total	l I	140	43		-			
		North		1	436	2			
	RAB	North Pennzoil	1	1 92	436	2	439 93		
	RAB RAB Total	Pennzoil	1		436 436	2	439 93 <b>532</b>		
		Pennzoil BCD		92 <b>93</b>			439 93 <b>532</b> 137		
	RAB Total	Pennzoil	1 136	92 93 16	436		439 93 532 137 16		
	RAB Total RC RC Total	Pennzoil BCD	1 136 136	92 <b>93</b>	436		439 93 <b>532</b> 137		
	RAB Total RC RC Total	Pennzoil  BCD  Pennzoil  otal	1 136 136 1116	92 93 16 16 431	436 1 1 804	2	439 93 532 137 16 153		
	RAB Total RC RC Total To	Pennzoil  BCD Pennzoil  otal  logs through	1 136 136 1116 gh mineralis	92 93 16 16 431 sation avai	436 1 1 804 lable for a	2 all holes.	439 93 532 137 16 153 2355	nina	
	RAB Total RC RC Total Total Lithology	Pennzoil  BCD Pennzoil  otal  logs throughte oxidatio	1 136 136 1116 gh mineralis	92 93 16 16 431 sation avai	436 1 1 804 lable for a	2 all holes.	439 93 532 137 16 153 2355	mine	
	RAB Total RC RC Total To Lithology Incomple base of s	Pennzoil  BCD Pennzoil  otal  logs throughte oxidation upergene zero	1 136 136 1116 gh mineralis n-state and one).	92 93 16 16 431 sation avai	436 1 1 804 lable for a	2 all holes.	439 93 532 137 16 153 2355		
	RAB Total RC RC Total Tithology Incomple base of s	Pennzoil  BCD Pennzoil  otal  logs throughte oxidatio upergene zo moisture o	1 136 136 1116 gh mineralis n-state and one).	92 93 16 16 431 Sation avai interval co	436 1 1 804 lable for a	4 all holes.	439 93 532 137 16 153 2355		
	RAB Total RC RC Total Ti Lithology Incomple base of s Summary	Pennzoil  BCD Pennzoil  logs throughte oxidation upergene zo moisture of ountered w	1 136 136 1116 gh mineralis n-state and one). data availab ater throug	92 93 16 16 431 sation avai interval co	436 1 1 804 lable for a	4 all holes.	439 93 532 137 16 153 2355		
	RAB Total RC RC Total To Lithology Incomple base of si Summary hole enco	Pennzoil  BCD Pennzoil  logs throughte oxidation upergene zo moisture of unitered word data availation	1 136 136 1116 gh mineralis n-state and one). data availab ater throug	92 93 16 16 431 sation avai interval cooler for 28 A th the mine D holes.	436 1 1 804 lable for a polour logg	2 all holes. ing (utilised	439 93 532 137 16 153 2355 I to detern	ne	
	RAB Total RC RC Total Tithology Incomple base of s Summary hole enco	Pennzoil  BCD Pennzoil  logs throughte oxidation upergene zo moisture of ountered word data availaturements to	1 136 136 1116 gh mineralis n-state and one). data availab ater throug able for 2 DI aken from B	92 93 16 16 431 sation avai interval coole for 28 A h the mine D holes.	1 1 804 lable for a colour loggic AC/RC hole eralised in all Gold ho	all holes. ing (utilisedes show thatterval.	439 93 532 137 16 153 2355 If to determinent all bar of	ne tion	
	RAB Total RC RC Total Tithology Incomplet base of st Summary hole encountered Recovery SG measor	Pennzoil  BCD Pennzoil  logs throughte oxidation upergene zo moisture of ountered word data availation urements to samples. N	1 136 136 1116 gh mineralis n-state and one). data availab ater throug able for 2 DI aken from B Way be mor	92 93 16 16 431 sation available for 28 A h the mine D holes. seaconsfiele	1 1 804 lable for a colour loggic AC/RC hole eralised in all Gold ho	all holes. ing (utilisedes show thatterval.	439 93 532 137 16 153 2355 If to determinent all bar of	ne tion	
	RAB Total RC RC Total Tithology Incomplet base of st Summary hole encountered Recovery SG measor	Pennzoil  BCD Pennzoil  logs throughte oxidation upergene zo moisture of ountered word data availation urements to samples. N	1 136 136 1116 gh mineralis n-state and one). data availab ater throug able for 2 DI aken from B	92 93 16 16 431 sation available for 28 A h the mine D holes. seaconsfiele	1 1 804 lable for a colour loggic AC/RC hole eralised in all Gold ho	all holes. ing (utilisedes show thatterval.	439 93 532 137 16 153 2355 If to determinent all bar of	ne tion	



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Criteria	Explanation
Relationship between mineralisation widths and	No obvious association other than, as expected with supergene
	mineralisation, globally thicker mineralisation has higher tenor of copper.
intercept lengths	
Diagrammes	No historic or client produced diagrammes available for review.
	Thickness plan:
	5835000 N  Thickness Contours  50m 40m 30m 20m 10m 8 20m 5834000 N
	Copper grade plan:
	Thurdsay Gossan Copper Mineralisation: May 2013 Resource Estimate
	Extent of 2000ppm Cu mineralisation  Cu Grade (ppm)







**Section 3: Estimation and Reporting of Mineral Resources** 

Criteria	Explanation
Database integrity	Data management protocols and provenance unknown.
	Limited cross checks with paper records of drill hole and assay data.
	Relational and spatial integrity assessed and considered acceptable.
Site visits	Not undertaken by CP
	CP has viewed photos of chip trays with mineralisation taken by Northern
	Platinum Personnel.
Geological interpretation	Single planar flat-lying horizon of supergene mineralisation containing areas
	where mineralisation thickens and copper grade tenor increases. A 0.2%Cu
	cut was utilised to domain the extents of the better mineralisation and this
	domain used as a hard boundary for grade interpolation.





Criteria	Explanation
Dimensions	Extends intermittently for a strike length of 4000m (NS) a breadth of 1500m and vertically up to 60m thick. The model includes prospects known as Thursday Gossan Chalcocite Copper, Junction and Drysdale.  The block model and grade estimate encompasses the extent of the mineralisation.
Estimation and modelling techniques	Copper grades were interpolated into a Vulcan <sup>TM</sup> non-regular block model with 20x20x10 metre parent blocks – subblocked to 2.5x2.5x2.5 metre minimum block dimensions.  3m composite intervals utilised.  No high grade sample treatment applied.  Single pass ID2 interpolation run employed utilising 200m sample search within the plane of mineralisation (97.8% of blocks within the TIN domain estimated).  Minimum of 10 and maximum of 20 composites utilised to estimate grade.  The Mt Ararat resource is classified as Inferred under the guidelines set out in the 2012 JORC Code.
Moisture and Recovery	27 of 28 AC/RC holes with moisture information recorded wet drilling conditions through the mineralisation. It is unknown if the wet conditions has introduced bias or contamination into the dataset as relevant/detailed information is not available.  Available core recovery data suggests that biases caused by both loss and enrichment may be affecting the resource dataset.
Cut-off parameters	The resource estimate is reported at 0.2%, 0.3% and 0.5% Cu cuts and by three mineralised thicknesses domains - <10m, 10-20m and >20m thick.  These breakdowns and grade tonnage plots are reported to allow differing economic assessment on the project.
Mining factors or assumptions	Not applied, however resource is reported at three thicknesses for input into this discipline.
Metallurgical factors or assumptions	Not evaluated as risks associated with historic data over-riding feature affecting the confidence of the estimate.
Environmental factors or assumptions	Not evaluated as risks associated with historic data over-riding feature affecting the confidence of the estimate.
Bulk Density	A single tonnage factor of 2.10 tonnes/m <sup>3</sup> was applied to all mineralisation.
Classification	The estimate is classified as Inferred under the JORC Code (2012 Edition).  Absence of QA/QC, the indicated sampling and assaying issues and absence of important data for evaluating other risks to the estimate (such as recover and moisture versus grade) are key factors in assigning an Inferred Classification.
Audits or reviews.	No Audit or Review of estimate undertaken
Discussion of relative accuracy/ confidence	Not undertaken other than that stated under the classification section.