PRESS RELEASE 4 SEPTEMBER 2013

RENISON MINERAL RESOURCE 31% LARGER

Metals X is pleased to advise that following a substantial campaign of drilling and associated resource development work, the Mineral Resource at its 50% owned Renison Tin Mine has again received a major upgrade.

The result expands the Total Mineral Resource of tin metal at the Renison Mine by 31 % to 11.57 million tonnes at 1.76% Sn, containing approximately 204,000 tonnes of tin metal.

This outcome has been driven by the recent delineation and advancement of the Central Federal Bassett Zone, which has resulted in continued positive drilling results from both exploration and resource definition phases of work. The new revised resource model provides the first opportunity for the Central Federal Bassett mineralisation to be available for mine planning consideration. Metals X anticipates that this will afford opportunities for substantial improvements in production scheduling. With the inclusion of the Central Federal Bassett ore, the current total Mineral Resource within the southern part of the mine now is 6.018 million tonnes at 1.87% Sn containing 113,000 tonnes tin, which is a 73% increase on a contained tin basis when compared to the previous reported Southern Area Mineral Resource of 4.509Mt at 1.44% Sn for 65,000 tonnes tin.

Metals X's CEO, Mr Peter Cook said:

"This is a great result and comes on the back of a large Ore Reserve increase announced on July 17, 2013. It demonstrates Metals X's commitment to grow its globally significant tin business. Today's announcement is important not only in regards to the quantum of increase in the Mineral Resource, but also as it represents a major step change in our ability to quantify and evaluate the world class Rension tin system."

"We are now focused on converting the increases to this substantial Mineral Resource to Ore Reserve and reaping the benefits of the improved schedule flexibility that the additional ore will bring to the mine. Most significantly, the Total Mineral Resource at Renison is now equivalent to over sixteen years of current annual plant capacity."

The resource growth focus at the mine will now switch to the North Rension mine area where we anticipate realisation of similar growth in the size of the mines known tin inventory.

Renison is Australia's only operating tin mine and Metals X is Australia's only significant tin producer. The size and quality of its tin inventory including the Rentails expansion project, together with the significant amount of in-place, operational capital infrastructure leaves it few peers as a Western World publicly listed tin company.



Metals X Limited is a diversified group exploring and developing metals and minerals in Australia. It is Australia's largest tin producer and holds a pipeline of assets from exploration to production, including two gold development projects and the world-class Wingellina Nickel Project.

CORPORATE DIRECTORY

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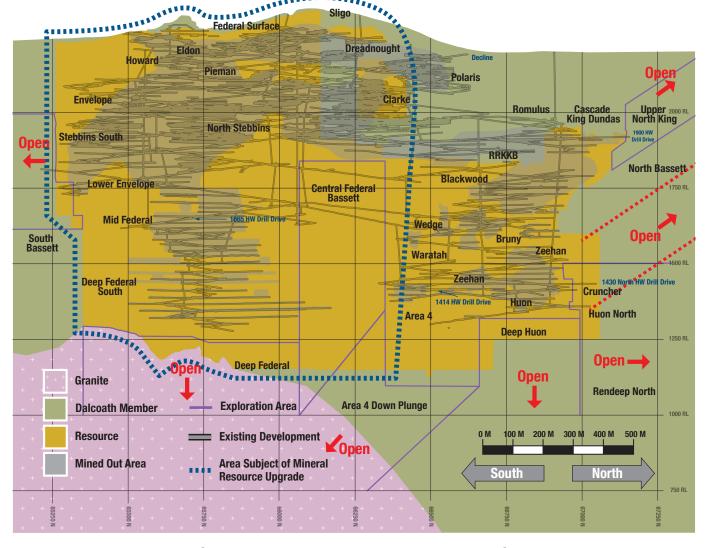
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[Figure 1: Area Subject to Mineral Resource upgrade]

UPDATED SOUTH RENISON MINERAL RESOURCE

(As at 31 August 2013)

JORC		Tin			Copper	
Category	Tonnes (kt)	Grade (% Sn)	Sn Metal (kt)	Tonnes (kt)	Grade (% Cu)	Cu Metal (kt)
Measured	347	2.94%	10	347	0.94%	3
Indicated	3,682	1.61%	59	3,682	0.45%	17
Inferred	1,990	2.17%	43	1,990	0.41%	8
Total	6,019	1.87%	113	6,019	0.47%	28

UPDATED MINERAL RESOURCE ESTIMATE TASMANIAN TIN OPERATIONS

(As at 31 August 2013)

		Tin			Copper	
JORC Category	Tonnes (kt)	Grade (% Sn)	Sn Metal (kt)	Tonnes (kt)	Grade (% Cu)	Cu Metal (kt)
Measured						
Renison Bell	1,246	2.22%	28	1,052	0.43%	5
Mt Bischoff	-	0.00%	-	-	0.00%	-
Rentails	20,598	0.45%	93	20,598	0.21%	44
Sub-total	21,844	0.55%	120	21,650	0.22%	49
Indicated						
Renison Bell	6,453	1.57%	101	5,797	0.37%	21
Mt Bischoff	968	0.59%	6	-	0.00%	-
Rentails	-	0.00%	-	-	0.00%	-
Sub-total	7,420	1.44%	107	5,797	0.37%	21
Inferred						
Renison Bell	3,870	1.93%	75	2,263	0.38%	9
Mt Bischoff	699	0.47%	3	-	0.00%	-
Rentails	-	0.00%	-	-	0.00%	-
Sub-total	4,569	1.70%	78	2,263	0.38%	9
Totals						
Renison Bell	11,568	1.76%	204	9,112	0.38%	34
Mt Bischoff	1,667	0.54%	9	-	0.00%	-
Rentails	20,598	0.45%	93	20,598	0.21%	44
Grand Total	33,833	0.90%	305	29,711	0.26%	79

COMPETENT PERSONS STATEMENT

The information in this report that relates to Mineral Resources compiled by Metals X technical employees under the supervision of Mr. Jake Russell B.Sc. (Hons), who is a member of the Australian Institute of Geoscientists. Mr Russell is a full-time employee of the company, and has sufficient experience which is relevant to the styles of mineralisation and types of deposit under consideration and to the activities 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". Mr Russell consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

ORE RESERVE – TASMANIAN TIN OPERATIONS

Whilst the Ore Reserve resulting from the Mineral Resource upgrade is yet to be estimated, the current Ore Reserves as at June 30, 2013 are included for completeness.

JORC		Tin			Copper	
Category	Tonnes (kt)	Grade (% Sn)	Sn Metal (kt)	Tonnes (kt)	Grade (% Cu)	Cu Metal (kt)
Proven						
Renison Bell	788	1.50%	12	790	0.30%	2
Mt Bischoff	-	0.00%	-	-	0.00%	-
Rentails	-	0.00%	-	-	0.00%	-
Sub-total	788	1.50%	12	790	0.30%	2
Probable				•		
Renison Bell	3,349	1.23%	41	3,028	0.30%	9
Mt Bischoff	-	0.00%	-	-	0.00%	-
Rentails	19,757	0.45%	88	19,757	0.21%	42
Sub-total	23,106	0.56%	130	22,785	0.22%	51
Total Ore Rese	rves					
Renison Bell	4,137	1.28%	53	3,817	0.30%	11
Mt Bischoff	-	0.00%	-	-	0.00%	-
Rentails	19,757	0.45%	88	19,757	0.21%	42
Grand Total	23,894	0.59%	142	23,574	0.23%	54

Notes: Figures have been rounded for reporting.

Metals X's equity in the reported Mineral Resources and Ore Reserves is 50%.

Mineral Resources reported above a 0.7% Sn lower-cut at Renison, a 0.5% Sn lower-cut at Mount Bischoff and with no lower-cut for Rentails.

Ore Reserves Cut-off grades are estimated using current operating cost estimates for the projects and a tin price of A\$25,000 per tonne. Additional modifying factors to account for minimum mining width, ore loss, mining recovery and mining dilution, etc, were applied in the estimation of the Ore Reserve.

Ore Reserves form a sub-set of the Mineral Resources.

COMPETENT PERSONS STATEMENT

The information in this Ore Reserve estimate report is compiled by Metals X technical employees under the supervision of Mr Michael Poepjes BEng (Mining Engineering), MSc (Min. Econ) M.AuslMM. Mr Poepjes is a full-time employee of the company. Mr Poepjes has sufficient experience which is relevant to the styles of mineralisation and types of deposit under consideration and to the activities 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". Mr Poepjes consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

SECTION 1 SAMPLING TECHNIQUES AND DATA

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code Explanation	Commentary
Sampling techniques	 Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be 	Diamond Drilling The bulk of the data used in resource calculations at Renison has been gathered from diamond core. Three sizes have been used historically NQ2 (45.1mm nominal core diameter), LTK60 (45.2mm nominal core diameter) and LTK48 (36.1mm nominal core diameter), with NQ2 currently in use. This core is geologically logged and subsequently halved for sampling. Grade control holes may be whole-cored to streamline the core handling process if required. NQ and HQ core sizes have been recorded as being used at Mount Bischoff. This core is geologically logged and subsequently halved for sampling. There is no diamond drilling for the Rentails Project.
Drilling techniques	required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information. • Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka,	Face Sampling Each development face / round is horizontally chip sampled at Renison. The sampling intervals are domained by geological constraints (e.g. rock type, veining and alteration /
Drining techniques	sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc). Method of recording and assessing core and chip sample recoveries and results assessed.	sulphidation etc.). Samples are taken in a range from 0.3m up to 1.2m in waste / mullock. All exposures within the orebody are sampled. A similar process would have been followed for historical Mount Bischoff face sampling.
Drill sample recovery	Measures taken to maximise sample recovery and ensure representative nature of the samples.	There is no face sampling for the Rentails Project. Sludge Drilling
	Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	Sludge Drilling Sludge drilling at Renison is performed with an underground production drill rig. It is an open hole drilling method using water as the flushing medium, with a 64mm (nominal) hole diameter. Sample intervals are ostensibly the length of the drill steel. Holes are drilled at sufficient angles to allow flushing of the hole with water following each interval to prevent contamination.
		There is no sludge drilling for the Mount Bischoff Project.
		There is no sludge drilling for the Rentails Project.
		RC Drilling
		RC drilling has been utilised at Mount Bischoff.
		Drill cuttings are extracted from the RC return via cyclone. The underflow from each interval is transferred via bucket to a four tiered riffle splitter, delivering approximately three kilograms of the recovered material into calico bags for analysis. The residual material is retained on the ground near the hole. Composite samples are obtained from the residue material for initial analysis, with the split samples remaining with the individual residual piles until required for re-split analysis or eventual disposal.
		There is no RC drilling for the Renison Project.
		There is no RC drilling for the Rentails Project.

Criteria	JORC Code Explanation	Commentary
		Percussion Drilling
		This drilling method was used for the Rentails project and uses a rotary tubular drilling cutter which was driven percussively into the tailings. The head of the cutting tube consisted of a 50mm diameter hard tipped cutting head inside which were fitted 4 spring steel fingers which allowed the core sample to enter and then prevented it from falling out as the drill tube was withdrawn from the drill hole.
		There is no percussion drilling for the Renison Project.
		There is no percussion drilling for the Mount Bischoff Project.
		All geology input is logged and validated by the relevant area geologists, incorporated into this is assessment of sample recovery. No defined relationship exists between sample recovery and grade. Nor has sample bias due to preferential loss or gain of fine or coarse material been noted.
Logging	Whether core and chip samples have been geologically and geotechnically logged to a	Diamond core is logged geologically and geotechnically.
	level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.	RC chips are logged geologically.
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc)	Development faces are mapped geologically.
	photography.	Logging is quantitative in nature.
	The total length and percentage of the relevant intersections logged	All holes are logged completely, all faces are mapped completely.
Sub-sampling techniques and sample preparation	 If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. 	Drill core is halved for sampling. Grade control holes may be whole-cored to streamline the core handling process if required
	 For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. 	Samples are dried at 90°C, then crushed to <3mm. Samples are then riffle split to obtain a sub-sample of approximately 100g which is then pulverized to 90% passing 75um. 2g of the pulp sample is then weighed with 12g of reagents including a binding agent, the weighed sample is then pulverized again for one minute. The sample is then compressed into a pressed powder tablet for introduction to the XRF. This preparation has been proven to be
	Measures taken to ensure that the sampling is representative of the in situ material	appropriate for the style of mineralisation being considered.
	collected, including for instance results for field duplicate/second-half sampling.	QA/QC is ensured during the sub-sampling stages process via the use of the systems of an
	Whether sample sizes are appropriate to the grain size of the material being sampled.	independent NATA / ISO accredited laboratory contractor.
		The sample size is considered appropriate for the grain size of the material being sampled.
		The un-sampled half of diamond core is retained for check sampling if required.
		For RC chips regular field duplicates are collected and analysed for significant variance to primary results.

Criteria	JORC Code Explanation	Commentary	
Quality of assay data and laboratory tests	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.	 Assaying is undertaken via the pressed powder XRF technique. Sn, As and Cu I detection limit 0.01%, Fe and S detection limits are 0.1%. These assay method appropriate for the resource in question. 	
	For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.	 All assay data has built in quality control checks. Each XRF batch of twenty conblank, one internal standard, one duplicate and a replicate, anomalies are reaensure quality control. 	
	Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	 Specific gravity / density values for individual areas are routinely sampled duridiamond drilling where material is competent enough to do so. 	ring all
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel.	\bullet Anomalous intervals as well as random intervals are routinely checked assay the internal QA/QC process.	ed as part of
	 The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. 	 Virtual twinned holes have been drilled in several instances across all sites wi significant issues highlighted. Drillhole data is also routinely confirmed by dev assay data in the operating environment. 	
	Discuss any adjustment to assay data.	Primary data is loaded into the drillhole database system and then archived for	or reference.
		 All data used in the calculation of resources and reserves are compiled in data (underground and open pit) which are overseen and validated by senior geological 	
		No primary assays data is modified in any way.	
Location of data points	 Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. 	 All data is spatially oriented by survey controls via direct pickups by the survey Drillholes are all surveyed downhole, currently with a GyroSmart tool in the ur environment at Renison, and a multishot camera for the typically short surface 	nderground
	Quality and adequacy of topographic control.	holes.	
	Quality and adequacy or topographic control.	All drilling and resource estimation is undertaken in local mine grid at the vari	ous sites.
		 Topographic control is generated from remote sensing methods in general, wit based surveys undertaken where additional detail is required. This methodolo adequate for the resource in question. 	
Data spacing and distribution	Data spacing for reporting of Exploration Results.	Drilling in the underground environment at Renison is nominally carried-out of the control	
	Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.	40m spacing in the south of the mine and 25m, x 25m spacing in the north of prior to mining occurring. A lengthy history of mining has shown that this data appropriate for the Mineral Resource estimation process and to allow for class resource as it stands.	spacing is
	Whether sample compositing has been applied.	 Drilling at Mount Bischoff is variably spaced. A lengthy history of mining has s this data spacing is appropriate for the Mineral resource estimation process a classification of the resource as it stands. 	
		 Drilling at Rentails is unusually carried out on a 100m centres. This is appropr Mineral resource estimation process and to allow for classification of the reso stands. 	
		Compositing is carried out based upon the modal sample length of each individual	dual domain.

Criteria	JORC Code Explanation	Commentary
Orientation of data in relation to geological structure	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.	Drilling intersections are nominally designed to be normal to the orebody as far as underground infrastructure constraints / topography allows.
	 If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. 	 Development sampling is nominally undertaken normal to the various orebodies. It is not considered that drilling orientation has introduced an appreciable sampling bias.
Sample security	The measures taken to ensure sample security.	At Renison, Mount Bischoff and Rentails samples are delivered directly to the on-site laboratory by the geotechnical crew where they are taken into custody by the independent laboratory contractor.
Audits or reviews	The results of any audits or reviews of sampling techniques and data	Site generated resources and reserves and the parent geological data is routinely reviewed by the Metals X Corporate technical team

SECTION 2 REPORTING OF EXPLORATION RESULTS

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code Explanation	Commentary
Mineral tenement and land tenure status	Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native	All Tasmania resources are hosted within 12M1995 and 12M2006. Both tenements are standard Tasmanian mining leases.
	title interests, historical sites, wilderness or national park and environmental settings.	No native title interests are recorded against the Tasmanian tenements.
	The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.	Tasmanian tenements are held by the Bluestone Mines Tasmania Joint Venture of which Metals X has 50% ownership.
		No royalties above legislated state royalties apply for the Tasmanian tenements.
		Bluestone Mines Tasmania Joint Venture operates in accordance with all environmental conditions set down as conditions for grant of the mining leases.
		There are no known issues regarding security of tenure.
		There are no known impediments to continued operation in Tasmania.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other partie	Renison and Mount Bischoff have an exploration and production history in excess of 100 years.
		Bluestone Mines Tasmania Joint Venture work has generally confirmed the veracity of historic exploration data.
Geology	Deposit type, geological setting and style of mineralisation.	Renison is one of the world's largest operating underground tin mines and Australia's largest primary tin producer. Renison is the largest of three major Skarn, carbonate replacement, pyrrhotite-cassiterite deposits within western Tasmania. The Renison Mine area is situated in the Dundas Trough, a province underlain by a thick sequence of Neoproterozoic-Cambrian siliciclastic and volcaniclastic rocks. At Renison there are three shallow-dipping dolomite horizons which host replacement mineralisation.
		 Mount Bischoff is the second of three major Skarn, carbonate replacement, pyrrhotite-cassiterite deposits within western Tasmania. The Mount Bischoff Mine area is situated within the Dundas Trough, a province underlain by a thick sequence of Neoproterozoic-Cambrian siliciclastic and volcaniclastic rocks. At Mount Bischoff folded and faulted shallow-dipping dolomite horizons host replacement mineralisation with fluid interpreted to be sourced from the forceful emplacement of a granite ridge and associated porphyry intrusions associated with the Devonian Meredith Granite, which resulted in the complex brittle / ductile deformation of the host rocks. Lithologies outside the current mining area are almost exclusively metamorphosed siltstones. Major porphyry dykes and faults such as the Giblin and Queen provided the major focus for ascending hydrothermal fluids from a buried ridge of the Meredith Granite. Mineralisation has resulted in tin-rich sulphide replacement in the dolomite lodes, greisen and sulphide lodes in the porphyry and fault / vein lodes in the major faults. All lodes contain tin as cassiterite within sulphide mineralisation with some coarse cassiterite as veins throughout the lodes. The Rentails resource is contained within three Tailing Storage Facilities (TSF's) that have been built up from the processing of tin ore at the Renison Bell mine over the period 1968 to 2013.

Criteria	JORC Code Explanation	Commentary
Drill hole Information	A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:	No exploration information is being presented in this release.
	» easting and northing of the drill hole collar	
	» elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar	
	» dip and azimuth of the hole	
	» down hole length and interception depth	
	» hole length.	
	If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	
Data aggregation methods	In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.	No exploration information is being presented in this release.
	Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.	
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	
Relationship between	These relationships are particularly important in the reporting of Exploration Results.	No exploration information is being presented in this release.
mineralisation widths and intercept lengths	If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.	
	If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').	
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	No exploration information is being presented in this release.
Balanced reporting	Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.	No exploration information is being presented in this release.
Other substantive exploration data	Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples — size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	No exploration information is being presented in this release.
Further work	The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).	No exploration information is being presented in this release.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	

SECTION 3 ESTIMATION AND REPORTING OF MINERAL RESOURCES

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.)

Criteria	JORC Code Explanation	Commentary
Database integrity	 Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes. Data validation procedures used. 	 Drillhole data is stored in a Maxwell's DataShed system based on the Sequel Server platform which is currently considered "industry standard". As new data is acquired it passes through a validation approval system designed to pick up any significant errors before the information is loaded into the master database. The information is uploaded by a series of Sequel routines and is performed as required. The database contains diamond drilling (including geotechnical and specific gravity data), face chip and sludge drilling data and some associated metadata. By its nature this database is large in size, and therefore exports from the main database are undertaken (with or without the application of spatial and various other filters) to create a database of workable size, preserve a snapshot of the database at the time of orebody modelling and interpretation and preserve the integrity of the master database.
Site visits	 Comment on any site visits undertaken by the Competent Person and the outcome of those visits. If no site visits have been undertaken indicate why this is the case. 	Mr Jake Russell visits the site on a regular basis.
Geological interpretation	 Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit. Nature of the data used and of any assumptions made. The effect, if any, of alternative interpretations on Mineral Resource estimation. The use of geology in guiding and controlling Mineral Resource estimation. The factors affecting continuity both of grade and geology. 	 Mining has occurred since 1800's providing significant confidence in the currently geological interpretation. No alternative interpretations are currently considered viable. Geological interpretation of the deposit was carried out using a systematic approach to ensure that the resultant estimated Mineral Resource figure was both sufficiently constrained, and representative of the expected sub-surface conditions. In all aspects of resource estimation the factual and interpreted geology was used to guide the development of the interpretation. The architecture of the Renison horst / graben system is the dominant control on geological and grade continuity. Similarly at Mount Bischoff the extent of intrusive felsic dykes in proximity to carbonate horixons control the continuity of grade within the system. Similarly at Mount Bischoff the extent of intrusive felsic dykes in proximity to carbonate horixons control the continuity of grade within the system.
Dimensions	The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.	 The depositional history of Rentails is well documented. Renison has currently been mined over a strike length of >1,950m, a lateral extent of >1,250m and a depth of over 1,100m. Mount Bischoff mineralisation has currently been defined over a strike length of >600m, a lateral extent of >250m and a depth of >250m Rentails is deposited in three adjacent TSFs which have and aggregate length of approximately 1.8km and a width at the widest point of circa 1km. Maximum depth is in excess of 20m.

assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used. The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data. The assumptions made regarding recovery of by-products. Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).	ing and estimation work undertaken by Bluestone is carried out in three his via Surpac Vision. Idating the drillhole data to be used in the estimation, interpretation of the orebody aken in sectional and / or plan view to create the outline strings which form the hie three dimensional orebody wireframe. Wireframing is then carried out using action of automated stitching algorithms and manual triangulation to create an other dimensional representation of the sub-surface mineralised body. Intercepts within the mineralised body are defined, these intersections are then hap the appropriate sections of the drillhole database tables for compositing
spacing and the search employed. Any assumptions behind modelling of selective mining units. Any assumptions about correlation between variables. Description of how the geological interpretation was used to control the resource estimates. Discussion of basis for using or not using grade cutting or capping. The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available. Grade est as standar population population weighting estimated well with: The resource determination of the process used to control the resource estimates. The process of validation, the checking process used, the comparison of model data to drill block size units, est Grade est as standar population weighting estimated well with: The resource determination of the resource estimates.	pach has proven to be applicable to Metals X's tin assets. In results are routinely validated against primary input data, previous estimates ag output.
	estimates are dry tonnes.
	rce reporting cut-off grade is 0.7% Sn at Renison.
	rce reporting cut-off grade is 0.5% Sn at Mount Bischoff.
	o lower reporting cut-off grade for Rentails

Criteria	JORC Code Explanation	Commentary
Mining factors or assumptions	Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.	Not considered for Mineral Resource. Applied during the Reserve generation process.
Metallurgical factors or assumptions	The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.	Not considered for Mineral Resource. Applied during the Reserve generation process.
Environmental factors or assumptions	Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.	Bluestone Mines Tasmania Joint Venture operates in accordance with all environmental conditions set down as conditions for grant of the mining leases.
Bulk density	 Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples. The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit. Discuss assumptions for bulk density estimates used in the evaluation process of the different materials. 	 Bulk density of the mineralisation at Renison and Mount Bischoff is variable. Bulk density sampling is undertaken via assessments of drill core (BMTJV practice is to undertake bulk density determinations on a representative selection of drill core sent for assay), and are reviewed constantly (BMTJV practice is to collect check SG samples as a regular part of the mining cycle). Where no drill core or other direct measurements are available, SG factors have been assumed based on similarities to other zones of mineralisation. Given the volume of the TSF's are known, and the tonnage of tailings material deposited into the dams was recorded, the insitu bulk density of the Rentails resource has been back-calculated.
Classification	 The basis for the classification of the Mineral Resources into varying confidence categories. Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data). Whether the result appropriately reflects the Competent Person's view of the deposit. 	Resources are classified in line with JORC guidelines utilising a combination of various estimation derived parameters, the input data and geological / mining knowledge. This approach considers all relevant factors and reflects the Competent Person's view of the deposit.
Audits or reviews	The results of any audits or reviews of Mineral Resource estimates.	Resource estimates are peer reviewed by the site technical team as well as Metals X's Corporate technical team.

Criteria	JORC Code Explanation	Commentary
Discussion of relative accuracy/ confidence	Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.	 All currently reported resources estimates are considered robust, and representative on both a global and local scale. A continuing history of mining with good reconciliation of mine claimed to mill recovered provides confidence in the accuracy of the estimate. A detailed set of production records provides confidence in the accuracy of the estimate for
	 The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used. These statements of relative accuracy and confidence of the estimate should be compared with production data, where available. 	Rentails.

SECTION 4 ESTIMATION AND REPORTING OF ORE RESERVES

(Criteria listed in section 1, and where relevant in sections 2 and 3, also apply to this section.)

Criteria	JORC Code Explanation	Commentary
Mineral Resource estimate for conversion to Ore Reserves	 Description of the Mineral Resource estimate used as a basis for the conversion to an Ore Reserve. Clear statement as to whether the Mineral Resources are reported additional to, or inclusive of, the Ore Reserves. 	All resources that have been converted to reserve are classified as either an Indicated or Measured Resource. Indicated Resources are only upgraded to Probable Reserves after adding appropriate modifying factors. Some Measured Resource is classified as Proved Mining Reserves and some is classified as Probable Mining Reserve based on whether is capitally or fully developed.
Site visits	 Comment on any site visits undertaken by the Competent Person and the outcome of those visits. If no site visits have been undertaken indicate why this is the case. 	Mr Michael Poepjes visits Renison on a regular basis and is actively involved in physical mining process and evaluations.
Study status	 The type and level of study undertaken to enable Mineral Resources to be converted to Ore Reserves. The Code requires that a study to at least Pre-Feasibility Study level has been undertaken to convert Mineral Resources to Ore Reserves. Such studies will have been carried out and will have determined a mine plan that is technically achievable and economically viable, and that material Modifying Factors have been considered 	Mining is in progress at Renison and has occurred for nearly 50 years. Following exploration and infill drilling activity, annual resource updates and economic assessment of the measured and indicated resources is completed using actual costs, operating parameters and modifying factors. An annual update of Ore Reserves is completed on this basis. With regard to the Rentails Mineral Resource and Ore Reserve, the proposed Rentails Tailings Retreatment Project has been subject to a Definitive Feasibility Study to validate the operating parameters applied. Increases in both the Mineral Resource and Ore Reserve for Renison are a direct reflection of total tailings output to the tailings dam from the operating Renison tin concentrator plant.
Cut-off parameters	The basis of the cut-off grade(s) or quality parameters applied.	 The cut-off grade used for inclusion in the Reserve is 0.8% Sn based on economic assessment and current operating and market parameters. No consideration is given to copper co-product revenue in the economic assessment as the mining and recovery of the material is ad hoc and occurs as a consequence of mining the tin. There is no lower cut-off for reporting of the Rentails Reserve as the entire resource will be mined as far as physical constraints allow. No reserve is stated for Mount Bischoff.

Criteria	JORC Code Explanation	Commentary
Mining factors or assumptions	 The method and assumptions used as reported in the Pre-Feasibility or Feasibility Study to convert the Mineral Resource to an Ore Reserve (i.e. either by application of appropriate factors by optimisation or by preliminary or detailed design). 	The Renison mine predominantly applies an up-hole benching with in some cases post fill and cemented aggregate fill to fill voids. The mining method has been successfully applied over the past decade with small tweaks and geotechnical considerations progressively applied.
	• The choice, nature and appropriateness of the selected mining method(s) and other mining parameters including associated design issues such as pre-strip, access, etc.	Mining dilution for the Mining Reserve is generally 10% at zero grade.
	• The assumptions made regarding geotechnical parameters (eg pit slopes, stope sizes, etc), grade control and pre-production drilling.	A minimum mining width of underground development is 4.5m and for underground stoping a minimum width of 2.0m and resource models are diluted to these limits before dilution
	 The major assumptions made and Mineral Resource model used for pit and stope optimisation (if appropriate). 	 applied A mining recovery 90% of the material developed and/or stoped is applied.
	The mining dilution factors used.	No Inferred resources are included within either the Reserve or the mine plan.
	The mining recovery factors used.	Rentails resources have been converted to reserve via a DFS study.
	Any minimum mining widths used.	Rentails will be mined via a combination of dredging and monitoring.
	The manner in which Inferred Mineral Resources are utilised in mining studies and the	Mining dilution at Rentails is minimal.
	sensitivity of the outcome to their inclusion.	Mining recovery at Rentails will exceed 95%.
	The infrastructure requirements of the selected mining methods.	No Inferred resources are included within either the Rentails Reserve or the mine plan.
		No reserve is stated for Mount Bischoff.
Metallurgical factors or assumptions	The metallurgical process proposed and the appropriateness of that process to the style of mineralisation. What has the most libraries because it walls to the later to the style of	The Renison mine produces a tin concentrate of grade varying between 50-60 % Sn with internal process designed to reduce penalty metals such as iron, sulphur, tungsten and copper.
	 Whether the metallurgical process is well-tested technology or novel in nature. The nature, amount and representativeness of metallurgical test work undertaken, the nature of the metallurgical domaining applied and the corresponding metallurgical recovery factors applied. 	The metallurgical process is complex and applies several stages of gravity-type concentration as well as sulphide and oxide flotation, regrinding and acid leach methods. The method is proved and has successfully operated for over 45 years.
	Any assumptions or allowances made for deleterious elements.	The metallurgical recovery as estimated based on regression analysis of grade recovery curves from the actual processing of ores in the plant.
	 The existence of any bulk sample or pilot scale test work and the degree to which such samples are considered representative of the orebody as a whole. 	Metallurgical recoveries on the various ore and grades were considered as part of the cut-off grade analysis.
	 For minerals that are defined by a specification, has the ore reserve estimation been based on the appropriate mineralogy to meet the specifications? 	The process proposed by Rentails project is to regrind the ores to a finer grind, the preconcentration using sulphide and oxide flotation, and high-g-force gravity separation to produce a low-grade concentrate which is planned to be processed using an Ausmelt process to fume the tin to a high grade concentrate tap out a copper matte.
		No reserve is stated for Mount Bischoff.
Environmental	The status of studies of potential environmental impacts of the mining and processing operation. Details of waste rock characterisation and the consideration of potential sites, status of design options considered and, where applicable, the status of approvals for process residue storage and waste dumps should be reported.	Waste is generally stored underground in old mine voids. Smaller amounts are placed on approved dumps.
		The Renison mine operates under and in compliance with a number of operating permits, which cover its environmental impacts and outputs.
		No reserve is stated for Mount Bischoff.

Criteria	JORC Code Explanation	Commentary	
Infrastructure	The existence of appropriate infrastructure: availability of land for plant development, power, water, transportation (particularly for bulk commodities), labour, accommodation; or the ease with which the infrastructure can be provided, or accessed.	 The Renison mine is currently active and has substantial in place infrastructure in place including a large amount of mine infrastructure, major electrical and pumping networks and underground primary crusher and automated shaft hoist system, a 650,000tpa tin concentrator plant, a fully equipped laboratory, extensive workshop, administration facilities and a 100 person single person quarters nearby 	5,
		The Rentails Project will be integrated wit the Renison Project. There is sufficient land se aside for the Rentails expansion and future infrastructure requirements including tailing storage.	
		No reserve is stated for Mount Bischoff.	
Costs	 The derivation of, or assumptions made, regarding projected capital costs in the study. The methodology used to estimate operating costs. 	 Mining costs for the Renison mine are based on Actual Mining Contractor Costs and acture realised costs and future budget estimates for all other functions at the existing mine. 	ıal
	Allowances made for the content of deleterious elements.	Costs for the Rentails Project have been defined through a Definitive Feasibility Study.	
	The source of exchange rates used in the study.	No reserve is stated for Mount Bischoff.	
	Derivation of transportation charges.		
	The basis for forecasting or source of treatment and refining charges, penalties for failure to meet specification, etc.		
	The allowances made for royalties payable, both Government and private.		
Revenue factors	The derivation of, or assumptions made regarding revenue factors including head grade, metal or commodity price(s) exchange rates, transportation and treatment charges, penalties, net smelter returns, etc.	 For the Renison Mine, revenue is based upon existing smelter contract costs and a base international tin price of A\$25,000. No co-product revenue is considered in Mining Rese or cut-off grade estimation. 	
	The derivation of assumptions made of metal or commodity price(s), for the principal metals, minerals and co-products.	 For the Rentails Project, similar industry based smelter contracts is considered. Credits for sale of a high-grade copper matte product are considered and applied as a co-produc revenue in the estimation of operating costs. 	
		No reserve is stated for Mount Bischoff.	
Market assessment	The demand, supply and stock situation for the particular commodity, consumption trends and factors likely to affect supply and demand into the future.	Detailed economic studies of the tin market and future price estimates are considered by Metals X and applied in the estimation of revenue, cut-off grade analysis and future min	oy ie
	 A customer and competitor analysis along with the identification of likely market windows for the product. Price and volume forecasts and the basis for these forecasts. 	 planning decisions. There remains strong demand and no apparent risk to the long term demand for the tin 	
		products and/or copper products generated from the project.	
	For industrial minerals the customer specification, testing and acceptance requirements prior to a supply contract.		

Criteria	JORC Code Explanation	Commentary
Economic	The inputs to the economic analysis to produce the net present value (NPV) in the study, the source and confidence of these economic inputs including estimated inflation, discount rate, etc.	As an operating mine, internal cash flow estimates and impairment models apply an implied 8% real discount rate for NPV analysis and only economically viable ores are considered for mining. The mine is operated in a JV and carries no external debt forces.
	NPV ranges and sensitivity to variations in the significant assumptions and inputs.	For the Rentails Project, which is yet to be funded, an 8% real discount rate is applied to NPV analysis.
		Sensitivity analysis of key financial and physical parameters is applied to future development project considerations and mine.
		No reserve is stated for Mount Bischoff.
Social	The status of agreements with key stakeholders and matters leading to social licence to operate.	The Rension mine is fully permitted and a major contributor to the local and regional economy. It has no external pressures that impact its operation or which could potentially jeopardise its continuous operation/
		The Rentails Project is yet to start and will require environmental and other regulatory permitting.
		The Collingwood mine is an existing operation, currently on care and maintenance with a decision to re-start still to be made.
		The Mt Bischoff Project is currently closed and the site is under care and maintenance whilst addition drilling and economic evaluation or remaining resources is considered.
Other	To the extent relevant, the impact of the following on the project and/or on the estimation and classification of the Ore Reserves:	Renison is an active mining project.
	Any identified material naturally occurring risks.	
	The status of material legal agreements and marketing arrangements.	
	The status of governmental agreements and approvals critical to the viability of the project, such as mineral tenement status, and government and statutory approvals. There must be reasonable grounds to expect that all necessary Government approvals will be received within the timeframes anticipated in the Pre-Feasibility or Feasibility study. Highlight and discuss the materiality of any unresolved matter that is dependent on a third party on which extraction of the reserve is contingent.	

Criteria	JORC Code Explanation	Commentary
Classification	 The basis for the classification of the Ore Reserves into varying confidence categories. Whether the result appropriately reflects the Competent Person's view of the deposit. The proportion of Probable Ore Reserves that have been derived from Measured Mineral Resources (if any). 	 The basis for classification of the resource into different categories is made on a subjective basis. Simply, Measured Resources have a high level of confidence and are generally defined in three dimensions and have been accurately defined or capitally and normally developed. Indicated resources have a slightly lower level of confidence but contain substantial drilling and are in most instances capitally developed or well defined from a mining perspective. Inferred resources always contain significant geological evidence of existence and are drilled, but not to the same density. There is no classification of any resource that isn't drilled or defined by substantial physical sampling works. Some Measured Resources have been classified as Proved and some are defined as Probable Reserves based on subjective internal judgements, but generally based upon the intensity of capital and normal development they have been subjected to. \ The result appropriately reflects the Competent Person's view of the deposit.
Audits or reviews	The results of any audits or reviews of Ore Reserve estimates.	Site generated reserves and the parent data and economic evaluation data is routinely reviewed by the Metals X Corporate technical team. Resources and Reserves have in the past been subjected to external expert reviews, which have ratified them with no issues. There is no regular external consultant review process in place.
Discussion of relative accuracy/ confidence	 Where appropriate a statement of the relative accuracy and confidence level in the Ore Reserve estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the reserve within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors which could affect the relative accuracy and confidence of the estimate. The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used. Accuracy and confidence discussions should extend to specific discussions of any applied Modifying Factors that may have a material impact on Ore Reserve viability, or for which there are remaining areas of uncertainty at the current study stage. 	 All currently reported reserve calculations are considered representative on a local scale. Regular mine reconciliations occur to validate and test the accuracy of the estimates. No reserve is stated for Mount Bischoff.
	 It is recognised that this may not be possible or appropriate in all circumstances. These statements of relative accuracy and confidence of the estimate should be compared with production data, where available. 	