Consolidated Zinc commissions Scoping Study

- Study to commence ahead of planned stage 1 production at zinc mine in Mexico
- Aim to refurbish and expand existing plant to treat approximately 75,000tpa
- Decision follows maiden high-grade Mineral Resource reported in compliance with the **JORC Code**
- Immediate production access provided via existing underground infrastructure
- Global zinc prices continue strong performance
- RungePincockMinarco Ltd engaged as managers to assess mining and infrastructure capabilities
- BatteryLimits Pty Ltd appointed to investigate the metallurgical and process engineering aspects

CONSOLIDATED Zinc Limited (ASX:CZL; "Consolidated Zinc" or "the company") is pleased to announce the commencement of a mine scoping study at its Plomosas zinc-lead-silver project in northern Mexico.

The news comes after the Company's decision to move towards a faster production schedule after a high-grade maiden JORC compliant Mineral Resource was announced in December last year.

The study will assess mining and infrastructure options, including the possible re-establishment of past mine operations, and refurbishment potential future expansion of an existing onsite pilot processing plant, targeting a throughput of 200 tonnes per day, or approximately 75,000 tonnes per annum.



Figure 1. Location of Plomosas mine, Mexico

Managing Director Mr Will Dix said the company believes following the high-grade maiden JORC results, the time is right to consider options for fast-tracking production.

"There is an opportunity for early cash flow by using the existing plant currently on site," Mr Dix said. "The Scoping Study will help improve our understanding of the mine mineralisation and give us some insight into various mining methods and processing options initially focussed on the indicated part of the Resource."

Independent global consultant RungePincockMinarco Pty Ltd ("RPM"), which has intimate knowledge of Plomosas from previous work completed with Consolidated Zinc, has been appointed to manage the study. In addition, BatteryLimits Pty Ltd will continue metallurgical testwork and develop the metallurgical and process engineering options.

"We have established a solid resource base, largely from the drilling completed in 2016, and are seeing ongoing success as we identify additional mineralisation underground," Mr Dix said.

"The short and medium-term outlook for zinc prices gives us confidence the study will return positive economic indicators that will provide further justification for this approach."

The scoping study is expected to be completed early in the second quarter of 2017, enabling decisions to be made on future progress and development of the Plomosas mine soon after.

"We look forward to working closely with our expanded team to work through the study," added Mr Dix. "In the meantime drilling will continue to expand our current resource and our goal remains to establish a larger scale mining operation off a robust resource at Plomosas."



Figure 2: Plomosas processing plant on site. Constructed in 2006, it ceased operation in 2011 having treated only 100,000t of ore. Scoping Study will assess options to refurbish and expand throughput.





Figures 3,4: Plomosas mining infrastructure includes equipment and underground development providing immediate access to the Level 7 resource (such as the Juarez decline shown here).

BACKGROUND

The Company announced a maiden JORC resource of **568,000 tonnes @ 16.9% Zn+Pb and 28.4g/t Ag for 96,000t of contained Zn+Pb metal in both Indicated and Inferred categories** which was announced to the market on 15 December 2016.

The Indicated Category resource comprises semi-oxidised sulphide (SOX) mineralisation totalling 99,000 tonnes @ 19.3% zinc, 9.0% lead and 57.9 g/t Ag above a 3% Zn cut-off grade.

The Scoping Study will focus initially on the Indicated mineralisation while ongoing drilling and underground sampling will continue to increase the resource and improve the resource classifications. Metallurgical testwork by BatteryLimits of the SOX material had already commenced, and the results of which were reported in the first half of 2016.



Consolidated Zinc is confident in progressing to this next stage due to:

- The existence on site of a processing plant capable of treating 90tpd which could be refurbished and expanded to 200tpd. This was constructed in 2006 and last operated in 2011 having treated no more than 100,000 tonnes since it was built.
- The existence of shafts, declines and drives that provide immediate access to the resources defined at level 7.

Yours faithfully,

Will Dix Managing Director 22 February, 2017

ABOUT CONSOLIDATED ZINC

Consolidated Zinc Limited (ASX:CZL) is a minerals exploration company listed on the Australian Securities Exchange. The Company's major focus is in Mexico where it recently acquired 51% of the exciting high grade Plomosas Zinc Lead Silver Project through its majority owned subsidiary, Minera Latin American Zinc CV SAPI. Historical mining at Plomosas between 1945 and 1974 extracted over 2 million tonnes of ore grading 22% Zn+Pb and over 80g/t Ag. Only small scale mining continued to the present day and the mineralised zones remain open at depth and along strike. The Company's main focus is to identify and explore new zones of mineralisation within and adjacent to the known mineralisation at Plomosas with a view to identifying new mineral resources that are exploitable.

In December 2016, CZL announced the first mineral resource compliant with the JORC 2012 guidelines totalling 568,000 tonnes @ 16.9% Zn+Pb and 28.4 g/t Ag for 96,000t of contained Zn+Pb metal in both Indicated and Inferred categories (Table A).

Competent Persons' Statement

The information in this report that relates to exploration results, data collection and geological interpretation is based on information compiled by Steve Boda BSc (Hons), MAIG, MGSA, MSEG and Andrew Richards BSc (Hons), Dip Ed, MAusIMM, MAIG, MSEG, GAICD. Messrs Boda and Richards are both Members of Australian Institute of Geoscientists (AIG) and Mr Richards is also a Member of the Australasian Institute of Mining and Metallurgy (AusIMM).

Both Messrs Boda and Richards have sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that is being undertaken to qualify as Competent Person as defined in the 2012 edition of the 'Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves' (JORC Code). Messrs Boda and Richards consent to the inclusion in the report of the matters based on their information in the form and context in which it appears.



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

Table A: Plomosas Project Mineral Resource

December 2016 Mineral Resource Estimate (3% Zn Cut-off)

	Indicated Mineral Resource						
Prospect	Tonnage	Zn	Pb	Ag	Zn	Pb	Ag
	t	%	%	g/t	t	t	Oz
Level 7	99,000	19.3	9.0	57.9	19,000	9,000	183,000
Total	99,000	19.3	9.0	57.9	19,000	9,000	183,000

		Inferred Mineral Resource					
Prospect	Tonnage	Zn	Pb	Ag	Zn	Pb	Ag
	t	%	%	g/t	t	t	Oz
Level 7	220,000	11.0	5.2	32.0	24,000	11,000	226,000
Tres Amigos	250,000	11.3	1.7	13.7	28,000	4,000	110,000
Total	470,000	11.2	3.4	22.2	52,000	16,000	335,000

	Total Mineral Resource						
Prospect	Tonnage	Zn	Pb	Ag	Zn	Pb	Ag
	t	%	%	g/t	t	t	Oz
Level 7	318,000	13.6	6.4	40.0	43,000	20,000	409,000
Tres Amigos	250,000	11.3	1.7	13.7	28,000	4,000	110,000
Total	568,000	12.6	4.3	28.4	71,000	25,000	519,000

Note

All Mineral Resources figures reported in the table above represent estimates at December, 2016. Mineral Resource estimates are not precise calculations, being dependent on the interpretation of limited information on the location, shape and continuity of the occurrence and on the available sampling results. The totals contained in the above table have been rounded to reflect the relative uncertainty of the estimate. Rounding may cause some computational discrepancies.

The Mineral Resource has been estimated in accordance with the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' prepared by the Joint Ore Reserves Committee of The Australasian Institute of Mining and Metallurgy, Australian Geoscientists and Minerals Council of Australia (The JORC Code 2012).



JORC Code, 2012 Edition – Table 1 report template

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 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. 	 Sampling of cut channels was conducted by locating a one metre sampling line, using spray paint across mineralisation and ensuring that the line began in hanging wall host, spanned mineralisation and terminated in footwall host. Where mineralisation was thicker than one metre, the line was adjusted accordingly. This was done to minimise the bias of the sample value. Channel sampling was then completed, using the line as a guide, without sampling the line itself. As much representative sample was taken from the length of the line to produce a two to four kilogram sample. For this level of exploration, the sample size and method of sampling was deemed adequate to represent in-situ material. Drilling sampling techniques employed at the Plomosas underground drilling program include saw cut NQ drill core samples. Only NQ triple tube core (NQ3) is currently being used to drill out the geological sequences and identify zones of mineralisation that may or may not be used in any Mineral Resource estimations, mining studies or metallurgical testwork. Diamond NQ3 core was sampled on geological intervals/contacts, with the minimum sample size of 0.5m and max 1.2m. Core was cut in half, with one half to be sent for analysis at an accredited laboratory, while the remaining half was stored in appropriately marked core boxes and stowed in a secure core shed. Duplicates were quarter core, sampled from the half sent for analysis.
Drilling techniques	 Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, 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). 	 Currently NQ3 triple tube using conventional wireline drilling is being used. Core is being routinely orientated where possible, every 5th run (a run being 1.5 metres in length) using the Reflex ACT II RD core orientation system.
Drill sample recovery	 Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. 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. 	 Diamond core was reconstructed into continuous runs where possible, in an angle iron cradle for orientation mark ups. Depths were checked against drillers blocks and rod counts were routinely carried out by the drillers. The use of triple tube improved core recovery. Measurements for core recoveries were logged and recorded on hard copy sheets, which were then loaded into excel sheets and sent for data entry. These measurements, in combination with core photography show the overall recoveries vary between 50-95%. Due to the nature of the geology and the presence of large open-spaced breccias present in the vicinity of the mineralisation, the recovery of the mineralised core has been in some cases <60%. The use of



Criteria	JORC Code explanation	Commentary
Logging	 Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. 	 triple tube in these areas will not improve recovery. CZL system of logging core records lithology mineralogy, mineralisation, alteration, structure weathering, colour and other primary features of the rock samples. Logging is both qualitative and quantitative depending on the field being logged. All drill holes are logged in full to end of hole. Diamond core is routinely photographed digitally
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. 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. Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling. Whether sample sizes are appropriate to the grain size of the material being sampled. 	 CLZ diamond core is NQ3 size, sampled or geological intervals (0.3 m to 1.2 m), sawn in half or quartered if duplicate samples are required. Samples to be submitted to ALS Chemex for preparation. The sample preparation follows industry best practice where all drill samples are crushed and split to 1kg then dried, pulverized and (>85%) sieved through 75 microns to produce a 30g charge for 4 acid digest with an ICP-MS or AAS finish. A split will be made from the coarse crushed material for future reference material. Field duplicates are routinely taken for core samples CZL procedures include a minimum of one duplicate per approximately 20 samples.
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. 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. 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. 	 All drill samples were submitted to ALS Laboratories for multi-element analysis using a 30g charge with a multi-acid digest and ICP-MS or AAS finish (ME ICP61). Over the limit results will be routinely reassayed by ore grade analysis OG62. Over the limit results for the ore grade will be reassayed by titration methods Cu-VOL61, Pb-VOL50 or Zn VOL50. Analytes include 51 elements and include Ag, Au Cu, Pb, Zn as the main elements of interest. QAQC protocols for all drill sampling involved the use of Certified Reference Material (CRM) as assay standards. The insertion of CRM standards is visible estimation with a minimum of two per batch Geostats standards were selected on their grade range and mineralogical properties. Blanks are inserted at the bottom of relevant mineralised zones using the fine certified blank and immediately later the coarse blank, to identify any potential cross contamination. All drill assays were required to conform to the procedural QAQC guidelines as well as routine laboratory QAQC guidelines.
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	 Significant drilling intersections are noted in this report and are verified by qualified personnel from geological logging. No twinned holes are being drilled as part of this program. CZL logging and sampling data was captured and imported using excel sheets and data entered into Micromine. All CZL drillhole and sampling data is stored in a Micromine based system. Manual backups are



Criteria	JORC Code explanation	Commentary
		routinely carried out.
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. Quality and adequacy of topographic control. 	 Underground drill holes were located by Micromine using accurately surveyed drives and stopes. Once drill holes were located, mine survey crew resurveyed the cuddy and the hole locations. A final collar survey will be finalised when the holes are completed. Down-hole surveys were taken at a nominal 30m interval and a final survey was taken at end of hole using a Reflex EZ-TRAC digital camera. Grid system used is WGS84 Zone 13
Data spacing and distribution	 Data spacing for reporting of Exploration Results. 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. Whether sample compositing has been applied. 	 Hole spacing is currently limited by the confinements of the underground drives. Azimuths of holes are planned so significant intersections have adequate spacing between them to allow sufficient geological and grade continuity as appropriate for inclusion in any Minerals Resource estimations. Where underground access drives allows, drill cuddies have been established at 80 metre intervals to allow for adequate drill spacing. No sample compositing has been applied
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. 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. 	 Drill orientations was designed to intersect any geological or geophysical contacts as high an angle as possible to reflect true widths as possible. Sampling has been designed to cross structures as near to perpendicular as possible, minimising any potential in creating a bais sampling orientation.
Sample security	The measures taken to ensure sample security.	 Samples were bagged in pre-numbered plastic bags into each bag a numbered tag was placed and then bulk bagged in batches not to exceed 25kg, into larger polyweave bags, which were then also numbered with the respective samples of each bag it contained. The bags were tied off with cable ties and stored at the core facility until company personnel delivered the samples to the laboratories preparation facility in Chihuahua.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	 No audits have been completed to date, but both inhouse and laboratory QAQC data will be monitored in a batch by batch basis. All protocols have been internally reviewed.

Section 2 Reporting of Exploration Results

(Criteria 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 title interests, historical sites, wilderness or national park and environmental settings. 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. 	 Sampling was conducted over three adjoining tenements, La Verdad (T-218242), El Olvido (T-225527) and Ripley (T-218272). Consolidated Zinc Ltd currently owns 51% 		
Exploration done by other	Acknowledgment and appraisal of exploration by other parties.	No relevant information is available.		



Criteria	JORC Code explanation	Commentary
parties		
Geology	Deposit type, geological setting and style of mineralisation.	 Plomosas is located in a historic zinc-lead-silver mining district, with mineralisation hosted by a Palaeozoic sequence of shales, argillaceous limestones, reefal limestones, 'conglomeratic' limestones and sandstones. This approximately 1600 metres-thick carbonate-rich sequence forms part of the Ouachita "Geosyncline", which was inverted in a thrust deformation phase during the Upper Palaeozoic Appalachian Orogeny. Characteristics of the deposit lead to the classification as an IRT III type mineralisation (Intrusive Related type III deposit) but may have some distal style affinities. The control on mineralisation is both lithological and structural, but local structural bending of the manto is very important as it is strongly folded in a relatively regular pattern, oriented north/northwest to west/north-west striking. The segment of the fossiliferous horizon with the best potential is north/north-west striking with a south-east plunge. The N/NW orientation of sections of the stratigraphy (due to folding) is considered important in localising mineralisation. The mineralogy is simple, consisting of ironpoor sphalerite, galena, silver, pyrite, chalcopyrite, barite, and calcite. The ore bodies are hosted by shale and marble on the footwall and hanging wall respectively. Intense marblisation is restricted to a few meters from the hanging wall contact.
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: 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. 	Appropriate information has been included in the report.
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. 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. 	No data aggregate methods were applied to the results.



Criteria	JORC Code explanation	Commentary
Relationship between mineralisation widths and intercept lengths	 These relationships are particularly important in the reporting of Exploration Results. 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'). 	No drilling was completed to enable any relationship between mineralisation width and intercept lengths
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. 	Appropriate diagrams are attached in the report
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.	All sample results are reported
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 other relevant data has been reported
Further work	 The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	Appropriate information has been included in the report.