ASX Announcement ASX: SUP 7th March 2019 superiorlake.com.au



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Inaugural drilling campaign delivers a 10% increase to the size of the mineral resource at Superior Lake

Highlights

- JORC resource (2012) at Superior Lake Zinc Project increases by 10% to 2.35 Mt @ 17.7 % Zn, 0.9% Cu, 0.38 g/t Au and 34 g/t Ag (Table 1 below).
- The increase followed the Company's inaugural drilling campaign, the first at Superior Lake in over 20 years.
- 88% of the resource is classified in the Indicated category
- Average zinc grade remains at 17.7%
- The increased resource has potential to improve the Project economics and extend the mine life when the Definitive Feasibility Study is released by mid-2019.
- Exploration activities are ongoing at site with a high-powered ground Transient Electromagnetic program underway with results due in the coming weeks.

Superior Lake Resources Limited (ASX: SUP) (the "Company") is pleased to announce an increase in the Mineral Resource at the Superior Lake Project ("Superior Lake" or the "Project") to 2.35 Mt at 17.7 %Zn, 0.9% Cu. This represents an increase of approximately 10 % to the size of the resource compared to that previously reported on 3 July 2018. The additional resource has potential to increase the mine life when the Definitive Feasibility Study ("DFS") is completed by mid-2019.

In addition to the resource upgrade, a down the hole Transient Electromagnetics ("TEM") program at Pick Lake was completed. As Pick Lake is a known deposit, this was simply a "test case" to confirm EM as a successful exploration tool in detecting and defining similar mineralisation at the Project. The results were positive as Pick Lake was clearly identified. This has increased the Company's confidence that electromagnetics is the correct exploration technique to be used to identify new anomalies at Superior Lake. The Company is currently completing a high-powered ground TEM geophysics program across a 3km by 3km area, with results expected in the coming weeks.

The Assessment and Reporting Criteria in accordance with the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' ("JORC Code 2012") is presented in Appendix 2.

Table 1: Superior Lake Mineral Resource at 3% Zn cut-off grade

Classification	Tonnage (Mt)	Zn%	Cυ%	Au g/t	Ag g/t
Indicated	2.07	18.0	0.9	0.38	34
Inferred	0.28	16.2	1.0	0.31	37
Total	2.35	17.7	0.9	0.38	34



Superior Lake Chief Executive Officer David Woodall said:

The aim of the first drill program at Superior Lake in more than 20 years, was to confirm the continuity of mineralisation through Mid Pick as this area was previously outside of the JORC resource. This program was successful as the drill results were in line with expectations, and led to the resource at Superior Lake increasing by 10% to 2.35 Mt @ 17.7 % Zn, 0.9% Cu, 0.38 g/t Au and 34 g/t Ag.

The additional 200,000 tonnes should further optimise the Project's economics in the upcoming DFS, as Mid Pick was previously not included in the mine plan. However, this area was adjacent to the planed Pick decline and therefore should be easily accessed without the requirement for changes to mine development, resulting in improved economics whilst also increasing the mine life. The Restart Study assumed a throughput of 1,000tpd¹, which we expect will remain unchanged.

In addition to the resource upgrade, a DHTEM program was undertaken at Pick Lake. Typically this technique is used to identify anomalies to be tested with drilling in the future. In this case however, the Company used DHTEM on Pick Lake, a known mineralised deposit essentially as a test case, to determine if electromagnetics could identify the deposit. Pleasingly the results came back positive as Pick Lake was clearly identified. This has significantly increased our confident that EM will not only be a major part of but essential to our exploration strategy going forward to identify new potential targets.

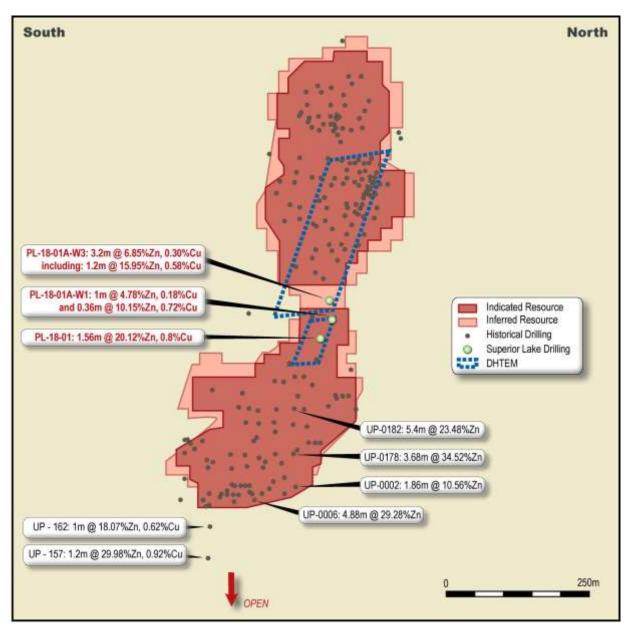
We are now currently completing a high-powered ground TEM geophysics program across the Project area and we look forward to updating the market on these results in the coming weeks.

Finally, as we continue to advance the Project towards a development decision later this year, numerous major global financial institutions, private equity firms and potential offtake partners are showing strong interest in the Project. The Company plans to commence a competitive project finance process in the near term."

¹ See ASX announcement "Outstanding study confirms Superior Lake as low-cost project" dated 10 October 2018. The Company confirms that it is not aware of any new information or data that materially affects the information in that announcement (save for the inclusion of the additional 200,000 tonnes), and that all material assumptions and technical parameters underpinning the production targets and forecast financial information based on production targets in that announcement continue to apply and have not materially changed. As stated above, the inclusion of the 200,000 tonnes will not materially affect the throughput set out in the Restart Study.



Figure 1: Long Section – Pick Lake²



Resource upgrade – Pick Lake Deposit

The Superior Lake Zinc Project is located around 200 kilometers east of Thunder Bay in the province of Ontario in Canada. The Project covers an area of 175km² and consists of two deposits – Winston Lake and Pick Lake.

A Restart Study completed in October 2018, outlined an operation at Superior Lake that would produce 46,000tpa of contained zinc metal with All in Sustaining Operating Costs ("AISC") of US\$0.51 / Ib (see Footnote 1, page 2). The Company is currently working towards the release of a DFS in mid-2019, with the Pick Lake deposit expected to provide the majority of ore for the operation.

²The exploration results from drill holes UP-0182, UP-0178, UP-002 and UP-006 were previously reported in an ASX announcement dated 3 July 2018. The Company confirms that it is not aware of any new information or data that materially affects the information in that announcement.



Pick Lake is a high-grade zinc deposit that extends over a downdip distance of 1,200m. The deposit has historically been defined in three sub areas – Upper Pick, Mid Pick and Lower Pick. Whilst the Upper and Lower Pick areas have been intensively drilled from underground, Mid-Pick required additional drilling to define a defined resource.

The Company therefore completed a 1,750m drilling program to confirm the continuity and grade at Mid Pick, compared to other areas of the deposit. This was the first drill program at the Project in more than 20 years.

Image 2: Drilling at Pick Lake



The results from the program were in line with expectations as it confirmed high-grade zinc mineralisation through the Mid Pick area. Intersections included³ the following.

PL-18-01
 PL-18-01A-W1
 PL-18-01A-W2
 PL-18-01A

o PL-18-01 A-W3 3.7m @ 5.95% Zn and 0.28% Cu, inclusive of 1.0m 15.95% Zn and 0.58% Cu

The increase in the Superior Lake resource represented 10% of its Exploration Target, which, given the relatively small scale of this inaugural drilling program is encouraging. The Exploration Target is conceptual in nature. Other than as reported, there has been insufficient

³ Drill hole information is available in Appendix 1.



exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.⁴

The Superior Lake resource estimate, as at 6th March 2019, is shown in Table 2 is classified in accordance with Canadian Institute of Mining, Metallurgy and Petroleum and JORC 2012.

Table 2: Superior Lake Mineral Resource at 3% Zn cut-off grade

Classification	Tonnage (Mt)	Zn%	Cu%	Au g/t	Ag g/t
Pick Lake					
Indicated	1.78	19.2	0.9	0.30	36
Inferred	0.27	16.4	1.0	0.30	38
Total – Pick Lake	2.05	18.8	0.9	0.30	36
Winston Lake					
Indicated	0.29	10.4	0.7	0.90	18
Inferred	0.01	8.9	0.6	0.50	12
Total – Winston Lake	0.30	10.4	0.7	0.88	18
Superior Lake					
Indicated	2.07	18.0	0.9	0.38	34
Inferred	0.28	16.2	1.0	0.31	37
Total – Superior Lake	2.35	17.7	0.9	0.38	34

⁴ See ASX announcement "Significant brownfields exploration target at Superior Lake" dated 26 September 2018. The initial brownfields exploration Target was determined to be between 2.1 to 5.2 million tonnes at a grade ranging between 13.3% to 15.4% In for its Superior Lake Project. The Company confirms that it is not aware of any new information or data that materially affects the Information in that announcement. The Exploration Target is based on the current geological understanding of the mineralised geometry, subsurface geochemistry provided an extensive historic drill hole database and detailed underground mapping provided by historic mining activity coupled with understanding of the host stratigraphic sequence. The Company intends to test the Exploration Target, based on the outcomes of further geophysical surveys and potentially with drilling. These activities are expected to extend over approximately 18 months from 26 September 2018. The Exploration Target is based largely on extensions of the reported classified resource into areas that have not been drill-tested in the past. These areas cover the strike and plunge continuations of the defined classified resources within host rocks that are the same as those that host the resources. Grade ranges have been either estimated or assigned from the classified resource using either a 3% In cut off for the lower bound grade and 6% In cut off for the upper bound grade. A classification is not applicable for an Exploration Target.





Mineral Resource Description and Methodology

The Superior Lake Zinc Project consists of two deposits, Pick Lake and Winston Lake, and is located approximately 200 kilometres east of the city of Thunder Bay Ontario, Canada. This is the highest-grade zinc project in Canada. The Project was mined for a decade (3Mt of ore mined) before closing in 1999, due to a sustained period of a low zinc price.

Geology and Geological Interpretation

Winston Lake and Pick Lake are recognised as Noranda-style VMS deposits which are characterised by the presence of the zinc-copper (+/- gold, +/- galena, +/- tetrahedrite) mineralisation composed of sphalerite-chalcopyrite-pyrrhotite-pyrite which can be surrounded by pyrite-pyrrhotite halo with minor sphalerite, tetrahedrite and galena. Confidence in the model is high as the mineralisation of the deposits essentially occurred as a single massive sulphide seam distributed along the VMS horizon. The mineralisation and the host rock stratigraphy can be delineated between the drill holes.

Geological interpretation and the updated resource model are based on the drill holes data completed during the mid-Pick drilling program and historical drilling (approximately 1787 drill holes) as well as digitised underground drive maps and cross sections. The interpretation of the mineralisation was confirmed by drilling between the Upper and Lower Pick resources and DHTEM that proved the continuity and the grade of the mid-Pick Resource.

Sampling and Sub-Sampling Techniques

The mineralisation was defined by intervals logged as massive and semi-massive sulphides within the Pick clotted rhyolite or tuff units and within Winston the rhyolites, tuffs and chert units. The assay values for zinc were compared to these intervals and found to correlate well. The zinc percent assay values were used to select intersections where no logging information was present. The interpretation of continuity was based on ore drive level plans that showed mapping information for the sulphide horizon.

A nominal cut-off grade of 1% In was used to define the mineralised intervals which were used to construct a vein model. Edge boundaries were applied from ore drive extents and long-section mine plans that indicated the conductor boundary position from geophysical surveys.

Data from these logs were entered into an Excel spreadsheet, subjected to QAQC and manual error correction and then uploaded into an Access database. Subsequent loading errors in 3D mining software were then corrected. The consistency of the assay data from the very high density of historic sampling suggests that industry-standard QAQC procedures were adopted at the time. The dataset is considered to be acceptable for use in Mineral Resource estimation by the Competent Person.

Drilling Techniques

Diamond drillholes were used to sample the mineralisation at Pick and Winston was based on 1603 holes drill from both underground and surface. Detailed drill logs were recovered from archives in Schrieber, Ontario. The distances between drillholes intersecting the mineralisation are commonly from 10–30m (at the Winston Lake deposit to 20–40m at the Pick Lake deposit which is sufficient for a confident delineation of the mineralised bodies. The interpretation of the VMS bodies was confirmed by mapping and sampling of the underground developments which are also used for constraining VMS mineralised bodies in 3D.

Sample Analysis Method

Samples were composited to 1m lengths using a best fit algorithm. Statistical continuity analysis of the samples was carried out using Istatis® geostatistical software to produce variograms for each element. The block models were constructed using parent cell sizes of 20mE by 20mN by 1mRL with sub-cell sizes of 0.5mE by 0.5mN by 0.5mRL for Pick and 1mE by 1mN by 1mRL for Winston. The composite data was unflattened





and two pass estimation of grades was carried out in unfolded space using Ordinary Kriging or Simple Kriging.

Criteria Used for Classification and Estimation Methodology

The mineralised domains have demonstrated sufficient confidence in both geological and grade continuity to support the definition of Mineral Resources. The nominal drill spacing of 20 to 30m, together with geological mapping and sampling from ore development, alimak raises and stoping is considered to be sufficient to assign an Indicated Mineral Resource classification to the majority of the Mineral Resource. Material classified as Inferred Mineral Resources is located on the margins of the Indicated Mineral Resources and the extents of the mineralisation, where sampling and control on the domain geometry are less confident. The input data is comprehensive in its coverage of the deposits and does not favour or misrepresent the in-situ mineralisation. Refer to the sub-heading "Estimation and modelling techniques" in Section 3 of Table 1 Reporting for the use of extrapolation.

Discussion of Modifying Factors

Superior Lake is progressing with the longhole mining method with pastefill that is expected to be included in the DFS. Metallurgical testwork is currently being undertaken to quantify recoveries of zinc, copper and precious metals from Superior Lake. Pursuant to the DFS, the preparation of which is currently under way, work in relation to other modifying factors is being carried out and will be reported in the DFS.

About the Company

Superior Lake Resources Limited is focused on the redevelopment of the Superior Lake Project in North Western Ontario, Canada. The Project contains a JORC resource of 2.35 Mt at 17.7 % Zn, 0.9 % Cu, 0.38 g/t Au and 34g/t Ag. A Restart Study completed in 2018, forecast the Project to produce approximately 46,000tpa Zn, with forecasted AISC of US\$0.51 / lb (see Footnote 1, page 2. The Company is currently working towards the release of a DFS, which is expected by mid-2019.

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To learn more about the Company, please visit www.superiorlake.com.au, or contact:

David Woodall Chief Executive Officer +61 8 6143 6740





Competent Person Statement

Exploration Results

The information contained in this announcement that relates to the exploration target and exploration results is based on, and fairly reflects, information compiled by Mr. Alfred Gillman, an independent consultant to Superior Lake Resources Limited, employed by Odessa Resources. Mr. Alfred Gillman is a Fellow and Chartered Professional of the Australian Institute of Mining and Metallurgy and was engaged as a consultant to Superior Lake in relation to the JORC (2012) resource. Mr. Gillman has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Gillman consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

Mineral Resources

The information contained in this announcement that relates to the exploration results and mineral resource estimates is based on, and fairly reflects, information compiled by Dr Marat Abzalov, an independent consultant for MASSA Geoservices. Dr Marat Abzalov is a Fellow of the Australian Institute of Mining and Metallurgy and was engaged as a consultant to Superior Lake Resources to complete the JORC (2012) resource. Dr Abzalov has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code of Reporting of Exploration Results, Mineral Resourced and Ore Reserves'. Dr Abzalov consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears. Dr Abzalov holds securities in Superior Lake Resources Limited.



Appendix 1

Drillhole information

Hole ID	Easting	Northing	RL	Length (m)	Azimuth	Dip (collar)	Dip (interval)	From (m)	To (m)	Interval (m)	Zn%	Cu%	Au g/t	Ag g/t
	471530	542064	10422	879	290	-86.7	-75.75	836.25	851.56	5.31	7.31	0.46		
DI 10 01							incl	839.50	840.00	0.50	3.83%	1.17		
PL-18-01							incl	840.00	841.06	1.06	27.8	0.629		
							incl	848.84	849.19	0.35	25.2	0.18		
DI 10 01A W/1	471469	5424088	9839.6	265.6	298	-77	-57.1	224.60	225.60	1.00	4.78	0.18		
PL-18-01A-W1								234.38	235.24	0.86	4.36	0.39		
PL-18-01A-W2						Но	le Lost – We	dge Dislode	ged					
DI 10 01A W2	471486	5424080	9983.7	375.6	293	-78	-56.7	353.37	357.07	3.70	5.95	0.28		
PL-18-01A-W3							incl	353.37	354.37	1.00	15.95	0.58		



Appendix 2. JORC (2012) TABLE 1 Checklist of Assessment and Reporting Criteria

Criteria	Explanation	Commentary
Sampling Techniques	Nature and quality of sampling (e.g. 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.	 Sampling of the Pick Lake and Winston Lake deposits has been carried out using diamond drilling that was carried out during the period of mining operations from 1988 to January 1999. Verification of the sampled intervals was made by Superior Lake Resources in 2018. In 2019 additional 3 diamond core drillholes were drilled. There is a total of 1810 surface and underground drillholes in the database compiled by the Superior Lake Resources, including 247 drillholes drilled at Pick Lake, 1,508 drillholes drilled at Winston Lake and 55 exploration drillholes (Fig. A1.1). Historic sampling was typically carried out using half cut core. Historic core for two holes was accessed at the Ontario Ministry of



Criteria	Explanation	Commentary	
		Northern Development and Mines (NMDM) in Thunder Bay. This core comprised half core samples over continuous lengths of typical Winston Lake mineralisation. This core was resampled using quarter core sampling for QAQC analyses in order to compare historic assays with modern assays. • Sampling of the core is considered to be to industry standards for this type of deposit.	Fig.A1.1: Map of the project area showing distribution of the drill holes. Red – Pick Lake deposit data, light blue – Winston Lake deposit data, dark blue – exploration drill holes
	Aspects of the determination of mineralisation that are Material to the Public Report.	mapping) in conjunction with assay reInformation from mine level plans and	lass been by a combination of geological observations (logging and sults from the surface and underground database. d cross-sections along with reports and studies was used to compile a 3D VMS system at Pick and Winston. This was used as the framework for the
Drilling techniques	Drill type (e.g. core, reverse circulation, openhole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or		rface holes 202 holes for 28,990m 57 holes for 9,307.7m derground holes 1,451 holes for 144,768.6m



Criteria	Explanation	Commentary
	standard tube, depth of diamond tails, face- sampling bit or other type, whether core is oriented and if so, by what method,	Core Size Diameter (mm) BQ 36.5 TT46 35.3 LTK46 35.6 AW34 33.5 AQTK 30.5
Drill Sample Recovery	etc). 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	 Inspection of core at the Ministry of Northern Development and Mines (MNDM) in Thunder Bay and at the core shack on site showed high core recoveries estimated at >98%. No selective core losses have been reported in the drill logs and not observed when drill core was examined at the MNDM core storage facilities.



Criteria	Explanation	Commentary
	bias may have	
	occurred due to	
	preferential	
	loss/gain of	
	fine/coarse	
	material.	
Logging	Whether core and	Detailed drill logs were recovered from archives in Schrieber, Ontario. Data from these logs were entered into an
	chip samples have	Excel spreadsheet, subjected to QAQC and manual error correction and then uploaded into an Access database.
	been geologically	Subsequent loading errors in 3D mining software were then corrected. The dataset is considered to be acceptable
	and geotechnically	for use in Mineral Resource estimation by the Competent Person.
	logged to a level	
	of detail to	Example of Historic Data Header Sheet:
	support	
	appropriate	HOLE NUMBER: U-1050 MINNOVA INC. DRILL HOLE RECORD
	Mineral Resource	PROJECT NAME: WINSTON PLOTTING COORDS GRID: MINE ALTERNATE COORDS GRID:
	estimation, mining	PROJECT NUMBER: NORTH: 10275.000 NORTH: 0+ 0 CLAIM NUMBER: EAST: 10162.50E EAST: 0+ 0 LOCATION: 455 L 10275 N ELEV: 9999.90 ELEV: 0.00
	studies and	COLLAR GRID AZIMUTH: 270° 0° 0" COLLAR ASTRONOMIC AZIMUTH: 250° 0° 0"
	metallurgical	DATE STARTED: March 16, 1993 COLLAR SURVEY: NO PULSE EM SURVEY: NO PLUGGED: YES
	studies.	DATE COMPLETED: March 19, 1993 MULTISHOT SURVEY: NO DATE LOGGED: March 31, 1993 RQD LOG: NO HOLE SIZE: LTK48
		Example of Historic Data Assay Sheet:
		HOLE NUMBER: U-1050 ASSAY SHEET
		Sample From To Length Cu Zn Py Po Cu Zn Ag Au SG CSG Netbk Cu/ X X X X X X X X X
		MJ-9755 85.30 85.48 0.18 10 0.5 15 0.73 6.50 27 00 4.00
		MU-0000 85.48 87.60 2.12 10 0.5 15 0.73 6.50 24.00 1.06 3.22 53.90 0.10 AVE. 85.30 87.60 2.30 0.78 0.04 1.17 0.06 0.51 1.88 0.08 2.70 2.74 4.22 0.01
Logging	Whether core and	Detailed drill logs were recovered from archives in Schrieber, Ontario. Data from these logs were entered into an
-	chip samples have	Excel spreadsheet, subjected to QAQC and manual error correction and then uploaded into an Access database.



Criteria	Explanation	Commentary	у													
	been geologically	Subsequent	loading err	ors in 3D m	nining s	oftwa	re wer	e then	correct	ed. Th	e data	set is c	onside	red to	be ac	ceptable
	and geotechnically	for use in Mi	neral Reso	urce estima	ation b	y the C	Compe	tent Pe	erson.							
	logged to a level															
	of detail to	Example of I	Historic Da	ta Header .	Sheet:											
	support															
	appropriate	HOLE NUMBER: U-1050)					MINNOVA DRILL HOLE	INC. RECORD							
	Mineral Resource	PROJECT NAME: WI	NSTON		PLOT	TING COORD		MINE 10275.00N			ALTER	NATE COORDS	GRID:	+ 0		
	estimation, mining	CLAIM NUMBER: LOCATION: 45	5 L 10275 N					10162.50E 9999.90						+ 0		
	studies and	ALESON CONTROL OF			CO	LLAR GRID	AZIMUTH:	270" 0" 0"			COLLAR A	STRONOMIC A				
	metallurgical	DATE STARTED: DATE COMPLETED:	March 16, 1993 March 19, 1993	COLLAR MULTISHOT	SURVEY: NO					PULSE EM S	URVEY: NO					
	studies.	DATE LOGGED:	March 31, 1993		QO LOG: NO						SIZE: LT					
		Example of H		ta Assay SI	heet:											
		Example of I		ta Assay SI	heet:	Treeson.						ASSA	Y SHEET			
		Nation 1/101		Length	heet:	ESTIM/ Zn X	ATES Py	Po X	Cu X	ASSAY Zn X	S Ag g/t	ASSA Au g/t	Y SHEET	CSG t/m3	Netbk \$/t	Cu/ Cu+Zn
		HOLE NUMBER	R: U-1050 From To (m) (m 85.30 85.4	Length (m) 8 0.18	Cu	Zn	Py				Ag g/t	Au	SG	t/m3	\$/t	Cu+Zn
		Sample MJ-9755 MJ-0000	R: U-1050 From To (m) (m	Length (m) 8 0.18 0 2.12	Cu	Zn X	Py X	x	x	Zn % 6.50	Ag g/t 24.00	Au g/t	SG	1/m3 3.22 2.70	\$/t 53.90	0.10
	Whether logging	Sample MU-9755 MU-0000 AVE.	From To (m) (m) 85.30 85.48 87.6	Length (m) 8 0.18 0 2.12 0 2.30	Cu X	2n % 10 0.78	0.5 0.04	15 1.17	0.73	6.50 0.51	Ag g/t 24.00 1.88	Au g/t 1.06 0.08	SG t/m3	3.22 2.70 2.74	\$/t 53.90 4.22	0.10 0.01
	Whether logging	Sample WJ-9755 WJ-0000 AVE. Drill core ha	From To (m) (m) 85.30 85.48 87.68 85.30 87.68 85.30 87.68	Length (m) 8 0.18 0 2.12 0 2.30	cu *	10 0.78 to a hi	0.5 0.04 gh sta	15 1.17 andard	0.73 0.06 and inc	6.50 0.51	Ag g/t 24.00 1.88	Au g/t 1.06 0.08	SG t/m3	3.22 2.70 2.74	\$/t 53.90 4.22	0.10 0.01
	is qualitative or	Sample MU-9755 MU-0000 AVE.	From To (m) (m) 85.30 85.48 87.68 85.30 87.68 85.30 87.68	Length (m) 8 0.18 0 2.12 0 2.30	cu *	10 0.78 to a hi	0.5 0.04 gh sta	15 1.17 andard	0.73 0.06 and inc	6.50 0.51	Ag g/t 24.00 1.88	Au g/t 1.06 0.08	SG t/m3	3.22 2.70 2.74	\$/t 53.90 4.22	0.10 0.01
	is qualitative or quantitative in	Sample WJ-9755 WJ-0000 AVE. Drill core ha	From To (m) (m) 85.30 85.48 87.68 85.30 87.68 85.30 87.68	Length (m) 8 0.18 0 2.12 0 2.30	cu *	10 0.78 to a hi	0.5 0.04 gh sta	15 1.17 andard	0.73 0.06 and inc	6.50 0.51	Ag g/t 24.00 1.88	Au g/t 1.06 0.08	SG t/m3	3.22 2.70 2.74	\$/t 53.90 4.22	0.10 0.01
	is qualitative or quantitative in nature. Core (or	Sample WJ-9755 WJ-0000 AVE. Drill core ha	From To (m) (m) 85.30 85.48 87.68 85.30 87.68 85.30 87.68	Length (m) 8 0.18 0 2.12 0 2.30	cu *	10 0.78 to a hi	0.5 0.04 gh sta	15 1.17 andard	0.73 0.06 and inc	6.50 0.51	Ag g/t 24.00 1.88	Au g/t 1.06 0.08	SG t/m3	3.22 2.70 2.74	\$/t 53.90 4.22	0.10 0.01
	is qualitative or quantitative in	Sample WJ-9755 WJ-0000 AVE. Drill core ha	From To (m) (m) 85.30 85.48 87.68 85.30 87.68 85.30 87.68	Length (m) 8 0.18 0 2.12 0 2.30	cu *	10 0.78 to a hi	0.5 0.04 gh sta	15 1.17 andard	0.73 0.06 and inc	6.50 0.51	Ag g/t 24.00 1.88	Au g/t 1.06 0.08	SG t/m3	3.22 2.70 2.74	\$/t 53.90 4.22	0.10 0.01



Criteria	Explanation	Comm	entary				
		UNIVERSE (**)	ole of Hist MBER: U-1050	oric Data Geological Log Sheet:		MINNOVA INC. DRILL HOLE RECORD	
		FROM	ROCK TYPE	TEXTURE AND STRUCTURE	ANGL TO C	E	MINERALIZATION
		! -		76.7 - 77.5 weekly magnetic; 77.5 - 81.15 mod to strongly magnetic;			
		81.15 10 82.50	«HY GB/CRT» HYBRID GABBRO AND BIMODAL ASH	f g; alternating light to dark coloured bands up to 2mm wide at bands are sharp to diffused; this unit is a mixture of contaminated gabbro and broken bimodal ash; some of the bands are weakly epidotized; as a pale green colour; 81.54m 4cm zone with mod jointing producing a micro insitu bx set in pale green ep alt matrix;	55		tr y f g diss py;
	The total length and percentage of the relevant intersections logged.	100%	of the cor	e has been geologically logged.			
Sub-sampling techniques and sample preparation	If core, whether cut or sawn and			otocols of the historic data are not			
	whether quarter, half or all core taken.		•	of the duplicate samples has confir a are lacking of biases (Fig.A1.3)	med	d a good repeatability of	f the historic assays, confirming
		bisect	•	lity of the historic data expressed as on the diagram (Fig.A1.3) confirms n.		-	·
	If non-core, whether riffled, tube sampled, rotary split, etc and whether	All san	npling wa	s carried with diamond core			



Criteria	Explanation	Commentary
	sampled wet or	
	dry.	
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	All sample preparation, related to the historic data, was made in the two external laboratories: Swastika Laboratories (Swastika, Ontario) and Metric Lab (Thunder Bay, Ontario) that have followed standard procedures of the Canadian mining industry standards developed for the base metal mineralisation.
	Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.	 The archive data does not contain QAQC information, however, the good consistency of the assay data of historic sampling suggests that standard QAQC procedures were adopted in the past assuring quality of the samples. Standard quality control procedures used by the Canadian analytical laboratories includes assessment of quality of the comminution. This is made by test screening of the selected samples and estimating the percentage of material passed through the screen assuring that this is matching to the established protocol. These procedures were used during the recent drilling by Superior Lake and it is assumed that similar procedures were used through the course of the Project. Good repeatability of the historic data expressed as insignificant scatter of the data points around the first bisect (1:1 line) on the diagram (Fig.A1.3) confirms that sub-sampling protocols were appropriate for this style of mineralisation.
	Measures taken to ensure that the sampling is representative of the in-situ material collected, including for	 The use of diamond core drillholes is considered to provide representative samples of the in-situ mineralisation, particularly the true thickness (sampling was done to geological boundaries). Significant part of the samples was collected using underground drilling that provides optimal intersections with mineralisation, commonly close to 90°



Criteria	Explanation	Commentary
	instance results	
	for field	
	duplicate/second-	
	half sampling.	
Quality of assay data and	The nature,	Two external laboratories used historically: Swastika Laboratories (Swastika, Ontario) and Metric Lab (Thunder
laboratory tests	quality and	Bay, Ontario).
	appropriateness	
	of the assaying	It is assumed that the quality of assays is compliant with the standards of Canadian industry at the time when
	and laboratory	Pick Lake and Winston Lake deposits were explored and mined. Appropriateness of the assaying and
	procedures used	laboratory procedures that was historically used can be inferred from the fact of successful mining of these
	and whether the	deposits and no reconciliation issues were identified in the archive documentation. Good repeatability of the
	technique is	historic data expressed as insignificant scatter of the data points around the first bisect (1:1 line) on the diagram (Fig.A1.3) confirms that sub-sampling protocols were appropriate for this style of mineralisation. A
	considered	total of 64 samples were used which is representative.
	partial or total.	total of 04 sumples were used which is representative.
	For geophysical	Down-hole EM (DHEM) survey has been undertaken by Superior Lake in 2019 that has confirmed continuity of
	tools,	the Zn-Cu mineralisation between Upper and Lower Pick domains (Fig. A1.2).
	spectrometers,	
	handheld XRF	The survey details are as follows:
	instruments, etc,	
	the parameters	Digital receiver: DigiAtlantis, s/n 130
	used in	Tx synchronization: GPS
	determining the	Integration time: 4 cycles of 128 stacks
	analysis including	Start of integration: 90 µs from end of turn off
	instrument make	Number of gates: 36, geometrically spaced Additional delay: 0 μs
	and model,	Power line filter: 60 Hz
	reading times,	1 Ower line fliter. 00 Hz
	calibrations	Transmitter: TerraScope, PRO5U, s/n 8NF
	factors applied	Power supply: Voltmaster 13000 long run generator



Criteria	Explanation	Commentary
	and their	Maximal output: 18 kW or 38 A or 400 V
	derivation, etc.	Transmitted signal: bipolar wave, 50% duty cycle
		Repetition rate: 1 Hz (T/4 = 250 ms)
		The DigiAtlantis probe was synchronized with the TerraScope transmitter using a EMIT Transmitter Controller with GPS timing.
		The transmitter energized a loop measuring roughly 1200m x 1500m.
		Readings taken at 10m intervals down-hole from 30m to EOH.
		Data were modelled using the program Maxwell distributed by Electromagnetic Imaging Technology which implements a variant of the current ribbon approximation for the EM response of a plate-like conductor devised by Lamontagne et al (1998).
		Lamontagne, Y., Macnae, J., Polzer, B., 1998. Multiple conductor modelling using program Multiloop. 58th Ann. Mtg. of Soc. Exploration Geophysics, Expanded Abstracts.



Criteria	Explanation	Commentary
		Fig. A1.2: The conductive plates (blue polygons) which have been identified by the DHEM survey undertaken by Superior Lake Resources with an aim to confirm continuity of VMS mineralisation between Upper Pick and Lower Pick domains
	Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels	 The archive data does not contain QAQC information, however, the good consistency of the assay data of historic sampling suggests that standard QAQC procedures were adopted in the past assuring quality of the samples. Recent analysis of the duplicate samples has confirmed a good repeatability of the historic assays, confirming that historic data are lacking of biases (Fig.A1.3) Good repeatability of the historic data expressed as insignificant scatter of the data points around the first bisect (1:1 line) on the diagram (Fig.A1.3) confirms that sub-sampling protocols were appropriate for this style of mineralisation.



Criteria	Explanation	Commentary
	of accuracy (ie lack of bias) and precision have been established.	Mean (duplicate) = 12.1 % Mean (historic) = 11.7 % Correlation = 0.99 CV%= 20 Prma%(ISD) = 9.5 RMA Fig.A1.3: Duplicate samples analysis confirming the validity of the historic data
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel.	Superior Lake submitted 64 drill core samples from historic drilling to ALS Canada Ltd Laboratories (preparation done at Thunder Bay, analysis done in Vancouver) as an independent check in June 2018. Samples were quarter core, crushed to 70% passing 2mm, and pulverised to 85% passing <75um. Analysis for Zn and Cu were carried out using Inductively Coupled Plasma- Atomic Emission Spectroscopy (ICP-AES), Au by 30gram Fire Assay with an Atomic Absorption Spectroscopy finish, Ag was by Aqua Regia with an AAS finish.



Criteria Explanat	on Comi	Commentary												
	U-004	U-0046 RESULTS												
	FRO M	ТО	LEN GTH (M)	SAMPLE	ZN % ALS	ZN % ORIG	CU % ALS	CU % ORIG	AG PPM ALS	AG PPM ORIG	AU PPM ALS	AU PPM ORIG		
	47	48.5	1.5	W1120901	0.02	0.03	0.047	0.01	0.8	0.69	0.014	0.069		
	48.5	50	1.5	W1120902	25.6	24.9	1.16	1.34	28.3	30.86	1.225	1.954		
	50	51.55	1.55	W1120903	28.4	24.3	0.741	0.94	22.9	25.37	1.125	1.234		
	51.55	53.3	1.75	W1120904	0.383	0.36	0.286	0.22	23.4	30.17	0.297	0.171		
	53.3	55	1.7	W1120905	0.198	0.19	0.079	0.05	1.5	1.37	0.03	0.034		
	55	56.7	1.7	W1120906	0.614	0.54	0.544	0.54	7.8	8.91	0.261	0.411		
	56.7 58.7	58.7	2.0	W1120908	14.15	13.76 16.54	1.375 0.893	1.46	32.1 15.5	35.66 14.4	1.47	1.783		
	60.3	60.3	1.6	W1120909 W1120910	14.1	14.88	2.5	0.96 2.54	32.8	32.91	0.895	0.926 1.714		
	61.7	63.2	1.4	W1120910 W1120911	19.55	19.94	2.48	2.54	37.6	39.77	1.045	0.686		
	63.2	64.7	1.5	W1120911 W1120912	15.85	16.1	1.79	1.64	31.4	32.23	1.61	1.954		
	64.7	65.9	1.2	W1120913	11.1	11.52	1.315	1.72	32.9	34.29	0.82	0.411		
	65.9	67.15	1.25	W1120915	20.7	19.92	0.97	0.9	19.9	28.8	0.793	0.583		
	67.15		1.7*	W1120916	2.43	0.86	0.907	0.9	15.4	17.14	0.577	0.514		
Docume	entation Durin	data	that o	could have	e nega	tively	affect	ed the	reliabilit	y of the	assay re	esults rep	on work, or an ported. forms which h	<i>,</i>
of prima				•	•	_							m these logs	
	•	•	•				_				•		•	
data ent	·			•									nd then uploa	
procedur verificati storage (and elect protocols	on, data consi physical ronic)	dered [·]	to be a	acceptable	for us	se in N	1inera		_				ed. The datase It Person.	et is
Discuss of	•	djustm	ent to	assay data	a has b	een n	nade.							
adjustme assay da														



Criteria	Explanation	Commentary
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.	The method for surveying historical surface drillhole collars is not known but it is assumed that the Mine Surveyors were responsible for the underground drilling. The downhole survey methods used are Eastman single shot and multishot, Tropari, acid etch and gyro survey at nominal 30m intervals. Superior Lake is in the process of compiling all hard copy drillhole data. Drillhole locations have been validated against mine workings and plans.
	Specification of the grid system used	Historical mining and exploration activities were carried out in local mine grids. The Winston local mine grid is oriented approximately -20 degrees to UTM grid north and the Pick local mine is oriented at -60 degrees to UTM grid north. The information had been transformed from local grid co-ordinates into UTM NAD83 Zone 16 grid via a two-point transformation.
	Quality and adequacy of topographic control	A topographic surface was generated from SRTM data and has had the surface drill collar location points added in to provide local control.
Data spacing and distribution	Data spacing for reporting of Exploration Results.	Pick Lake has been drilled from surface approximately at 100 - 200m centres. Underground drilling at both Pick Lake and Winston Lake has been drilled on a much tighter grid, approximately at 40m centres at the Pick Lake and 20m at the Winston Lake, and down to less than 10m in places.



Criteria	Explanation	Commentary
	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.	 Drillholes spacing, which are distributed approximately as a random stratified grids of 40x40m at the Pick Lake and 20x20m at the Winston Lake allow to accurately establish continuity of mineralisation and estimate the grade distribution. These grids are appropriate for Mineral Resource estimation. The production history and information available from the mining operations forms part of the confidence criteria used to classify the Mineral Resource.
Orientation of data in relation to geological structure	Whether sample compositing has been applied. Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to	 Samples have been taken based on geological intervals, with a nominal maximum length of 1 metre. Physical compositing of the samples not used Based on 3D model reviewed the intersection angles in general are close to perpendicular and appropriate for Resource estimation. Some of the drillhole have low intersection angles due to the location of the drill sites, but these are still considered to be representative. The new drillholes, drilled by Superior Lake Resources in 2019 have been completed using wedging equipment allowing to orientate drillholes in order to obtain an optimal intersection with the drill target. Location of the drilled hole was surveyed every day after, approximately 50 m of advancing and this has allowed to closely monitor deviations of the drillholes and correct it using the wedges.



Criteria	Explanation	Commentary
Criteria	Explanation 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	Downhole surveying was made using Gyro camera, which is optimal for surveying in the rocks, containing ferro-magnetic minerals
Sample Security	assessed and reported if material. The measures	As was standard practice on the mining projects and the operating mines, it is assumed that Inmet Mining
Jumple Security	taken to ensure sample security.	organised delivery of samples directly to assay laboratories and other previous explorers followed industry guidelines current at the time.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	2013. Rémi Verschelden validated the analytical data of the grab samples using the values in the ALS Chemex and SGS Canada certificates of analysis. The validation consisted of verifying all grab sample results for Au, Cu, and Zn as reported by Silvore Fox in 2012 from the property. No errors were noted during the validation. 2019. Superior Lake has reviewed and validated historic data, that included re-assaying of mineralised intervals. In total, 64 samples have been collected and assayed that confirm validity of the historic data



Criteria	Explanation	Commentary
		During data verification, no indication was found of anything in the exploration work, or analytical data that could have
		negatively affected the reliability of the assay results reported.

Section 2 Reporting of Exploration Results

Criteria	Explanation	Commentary
Mineral tenement and land tenure	Type, reference	The Pick Lake Project comprises 297 claim units (each claim unit is 400mx400m or 16Ha in area) totalling
status	name/number, location	47.5km2. The claims are made up of a number of claims acquired in August 2016 and claims recently
	and ownership including	staked and registered in October 2017. The total of all claim areas is >17,000Ha.
	agreements or material	
	issues with third parties	Superior is the legal and beneficial owner of 70% of the issue capital of Ophiolite Holdings Pty Ltd (ACN 617
	such as joint ventures,	182 966) (Ophiolite). Ophiolite is a proprietary exploration company and is the legal and beneficial owner
	partnerships, overriding	of the zinc and copper prospective "Pick Lake Project", located in Ontario. Please see ASX announcement
	royalties, native title	dated 6 December 2017.
	interests, historical sites,	
	wilderness or national	Superior Lake currently has an option over the Winston Lake project claims. These claims are owned by
	park and environmental	FQM. For further details please refer to ASX announcement dated 21st February 2018.
	settings.	
	The security of the tenure	The claims are in good standing.
	held at the time of	
	reporting along with any	
	known impediments to	
	obtaining a licence to	
	operate in the area.	



Criteria	Explanation	Commenta	ry					
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	The Pick Lake deposit was discovered in 1983 and the Winston Lake deposit was discovered in 1982. The Pick Lake and Winston Lake project areas have been the subject of a variety of exploration campaigns, main exploration and development stages are listed in the table:						
		Year	Company	Results	1			
		1951-1952	Ciglen;Anderson; Andowan Min.	Discovery of Anderson occurrence				
		1978-1986	Falconbridge	Discovery of Trail occurrence Discovery of Winston Lake deposit Discovery of Pick Lake deposit				
		1983-1984	Noranda <u>Expl</u> .	Several geophysical anomalies				
		1987-1992	Minnova Inc.	High grade mineralisation discovered at Pick Lake DDH67: 13.4@25%Zn/ 2.7%Cu				
		1995-1998	Inmet Mining	Production at the Pick Lake				
		2008-2010	Orebot Inc.	New geochem, anomalies				
		2011-2013	Silver F./Gold. Sh. CSA Global.	VTEM conductors detected Verification studies	_			
		Details of the past exploration can be found in report filed on SEDAR:						
		Independent Technical Report on the Pick Lake Property, Pays Plat Lake and Rope Lake Area, Ontario,						
		Canada, dated June 19, 2013 prepared by Bruno Turcotte, MSc, P. Geo and Remi Verschelden, BSc, P. Geo						
		(filed June 21, 2013 on SEDAR). This report can be accessed via the url: http://www.sedar.com under the company name "Silvore Fox".						
Geology	Deposit type, geological setting and style of	Pick Lake						
	mineralisation	sulphide (V The Pick Lal Noranda-ty	of metamorphosed volcanogenic massive onic environments in areas of localized rifting. sub-type, also known as Canadian-shield or re characterised by dominating of the mafic 25% of the sequence. A significant					



Criteria	Explanation	Commentary
		characteristic of this deposit type is the tendency of the deposits to occur in clusters or "camps" either along a single stratigraphic horizon or stacked within the volcanic sequence. The deposits tend to form stratiform massive sulphide lenses with or without discordant feeder pipes cutting across the underlying stratigraphy. The massive sulphide lens may be displaced from the feeder pipe, which represents the hydrothermal vent onto the ancient sea floor.
		The Pick Lake deposit occurs at the extreme western edge of the Winston-Big Duck Lake sequence of volcanic rocks, approximately 35 metres above a granitic contact. Aeromagnetics within the Project area depicts a distinctive V shaped sequence of magnetic and non-magnetic units converging to a northern "V" apex and appears remarkably similar to the aeromagnetic character of the older Archean Warriedar Fold Belt in Western Australia which hosts the Golden Grove VMS deposits.
		The Pick Lake deposit occurs as a large sheet like zone of massive sulphides within a series of bedded pyroclastic rocks. Hydrothermal alteration exists in both footwall and hangingwall rocks resulting in varying assemblages of quartz, cordierite, biotite, anthophyllite, garnet, chlorite and sericite with minor disseminated sulphides. The hydrothermal alteration zone appears to be spatially related to the Winston Lake deposit; recent structural mapping provides evidence that Pick Lake and Winston Lake can be hosted within the same stratigraphic horizon.
		The Anderson showing, located near the southeast shore of Winston Lake, appears to be the surface expression of the Pick Lake deposit. This is a rusty pyritic weakly altered series of bimodal volcanics. Massive sulphides of the Pick Lake deposit occur from approximately 300m to 1200m vertically and over a strike length averaging 250 metres. The lower portion of the deposit appears to increase in strike length to approximately 500 metres. The deposit strikes at 20 degrees and dips to the east at 50 degrees. The thickness of the deposit is generally between 2 and 4m, however, locally it is up to 14 metres.
		Sulphide mineralisation is generally very consistent, composed of a fine-grained mixture of sphalerite (50-80%) and pyrrhotite (5-35%) with minor chalcopyrite (0-5%) and pyrite (0-3%). Commonly contained within the sulphides is 5-10% of quartz inclusions, that are represented by the rounded grains up to 3cm in size (Fig. A2.1a) and, less commonly, by veins, cutting the massive sulphide mineralisation (Fig.A2.1b).



Criteria Explanation	Commentary
	Mineralisation also contains inclusions of the host volcanic rocks (1-3%) which are commonly intensely foliated and altered to chlorite-biotite schists (Fig. A2.1a). Random orientation of the foliated inclusions indicate that deformation and displacement of the sulphide mass has continued after main peak of metamorphism. Intensity of foliation fabrics increases toward the contact of the massive sulphides (Fig. A2.1c), which are typically sharp (Fig.A2.1d).
	(a) (b)
	(c) (d)
	Fig. A2.1: Sulphide mineralisation of the Pick Lake deposit
	Winston Lake
	The Winston Lake deposit lies at the top of the Winston Lake sequence within cherty exhalite and altered felsic-to-intermediate laminated ash tuff. In places, gabbro forms the hanging wall for the deposit. The



Criteria	Explanation	Commentary
		footwall consists of altered mafic flow rocks and felsic-to-intermediate volcaniclastic rocks which are underlain by altered quartz and feldspar porphyritic rhyolite and feldspar pyritic basalt with intercalated sulphide-rich, bedded, tuffaceous rocks which, in turn, are underlain by the "Main" quartz fledspar porphyry which is intruded by gabbro and pyroxenite.
		Hydrothermal alteration, confined to the Winston Lake sequence, and later metamorphism of altered rock have resulted in assemblages of cordierite, anthophyllite, biotite, garnet, sillimanite, staurolite, muscovite and quartz coincident with an increase in iron, magnesium, and potassium and a decrease in sodium and calcium. Zinc content is directly proportional to the intensity of alteration.
		High copper values occur at the flanks and top of the alteration "pipe" with the core of the pipe containing relatively depleted copper values. The most common forms of ore are finely banded sphalerite and pyrrhotite and massive-to-coarsely banded sphalerite and pyrrhotite with minor pyrite and chalcopyrite and up to 45% of sub-angular mafic and felsic fragments averaging 3cm in diameter.
		The north-striking and 50 degrees eastwardly dipping deposit has a strike length of 750m and width of 350m. It has an average true thickness of 6m and is open to depth.
Drill hole Information	A summary of all information material to	Resource definition database contains 1810 surface and underground drillholes.
	the understanding of the exploration results including a tabulation of the following information for all Material drill holes:	These includes 23 new drillholes that were added to the database after maiden resources were estimated and announced in 2018 (ASX 2018_07_03_SUP). The new data includes 3 drill holes drilled in 2019 by Superior Lake Resources (ASX announcement 7 March 2019) and 20 historic holes that were digitised from the archives (Fig. A2.2)
	easting and northing of the drill hole collar elevation or RL (Reduced	



Criteria	Explanation	Commentary
	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.	Fig. A2.2: Longsection of the Pick Lake deposit showing distribution of the drillholes Details of the new drillholes added to the database in 2019 are presented in the Appendix 1. Other holes have been presented to ASX in 2018 when maiden resources were reported (ASX 2018_07_03_SUP).
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	Intercept grades are length weighted. No cut-off grades have been used.



Criteria	Explanation	Commentary
Relationship between	These relationships are	Historical mining at Pick Lake and Winston Lake report mineralisation widths at Pick Lake to
mineralisation widths and	particularly important in	average of 2 to 4m and at Winston Lake to average 7m, which is concur with the 3D Resource
intercept lengths	the reporting of	model of the deposits.
	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	
	(e.g. 'down hole length,	
	true width not known').	
Diagrams		 Refer to body of announcement for figures. Generalised geological map of the project area is shown below.



Criteria	Explanation	Commentary
		4342000
		4140000
		, A ACTIVIDAD
		- 14/20WY 2 100 4000 1304 +148000
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.	Assay results for significant intercepts sourced from Inmet Mining Corp figures have been tabulated in Appendix 1.



Criteria	Explanation	Commentary
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.	Exploration activities carried out by other parties include surface geochemistry, drilling, surface geology mapping, VTEM, structural mapping. • Continuity of mineralisation was studied and confirmed by DHEM survey that were described in the Section 1 of the JORC Table.
Further work	The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).	 The following work is planned for the Pick Lake and Winston Lake Projects: To complete compilation of all drillhole hardcopy data into a drillhole database To complete scanning and digitising of underground drive geology mapping DGPS pick-up of all existing surface drillhole collars. Downhole survey measurements of existing surface drillholes (if possible) FLEM survey with an objective to identify the massive sulphide targets to the depth of 1000m (currently in progress) Preparation of the mine plans using the updated resource model



Criteria	Explanation	Commentary
		Geochemical exploration in the eastern tenements, that currently are lacking of systematic exploration
		and known targets was not drilled



Section 3 - Estimation and Reporting of Mineral Resources

Criteria	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.	 Superior Lake has compiled and validated Access database of drilling information, together with scanned images of interpreted level plans, sections, maps and other production related plans used in the preparation of the Mineral Resource estimate. Drill holes data were digitised from the mine plans and cross-sections entry from hardcopy logs into Excel. All data in Excel was then checked against the original hardcopy logs including collar information, downhole surveying, geology logging and assays. Any errors detected in the Excel files was corrected. Intervals not sampled were assigned a zero-grade value. Drillholes were uploaded to 3D mining software packages for error detection and on and on-screen inspection and validation.
	Data validation procedures used.	 Data were loaded into 3D mining software packages and validation checks for location, downhole surveys, intervals and integrity were made. The data was also checked against plans, cross sections and long sections to detect any errors in data entry for both locations and downhole data.
Site visits	Comment on any site visits undertaken by the Competent Person and the outcome of those visits.	 Dr. M.Abzalov, the Competent Person (Resources) of the project has reviewed the historic data and the drill core of the holes that were available at the drillcore storage facilities of the Ontario Ministry of Northern Development and Mines in Thunder Bay, Ontario. In February 2019 Dr. M.Abzalov has visited the project during drilling carried by Superior Lake and has reviewed the field procedures, with emphasis on drill holes logs and documentation quality, and also analysed the obtained drill core. All field procedures observed were found satisfactory and complaint with the industry standards.

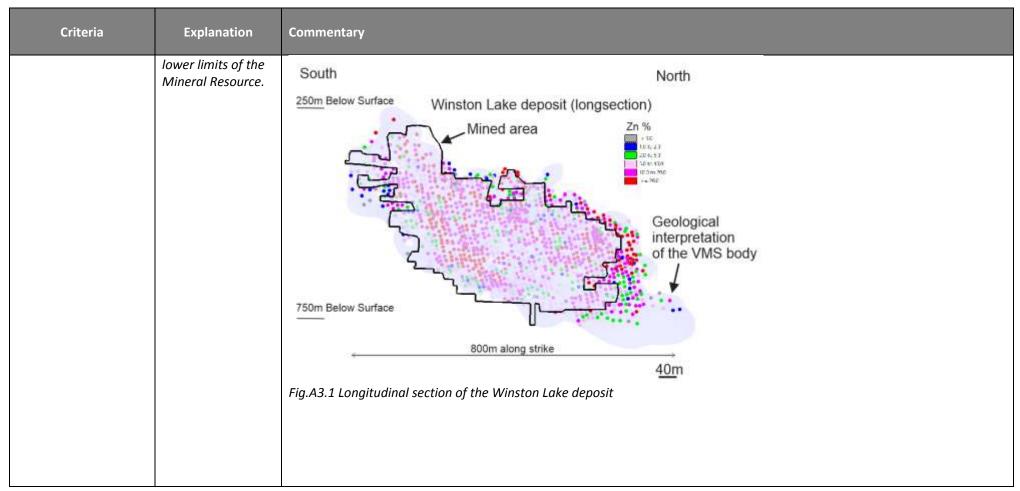


Criteria	Explanation	Commentary
	If no site visits have been undertaken indicate why this is the case.	Site visit has been undertaken.
Geological interpretation	Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.	Pick-Winston Lakes camp VMS deposits, are a Noranda-style of the VMS-type deposits which are characterised by presence of the zinc - copper sulphide minerals core composed of sphalerite-chalcopyrite-pyrrhotite-pyrite (+/- gold, +/- galena, +/- tetrahedrite) which can be surrounded by pyrite-pyrrhotite halo with minor sphalerite, tetrahedrite and galena. The zoned distribution of the sulphide minerals is coupled with alteration patterns developed in the host rocks, with Mg-chlorite distributed at the core of the alteration pipe under the Cu-Zn deposit surrounded by sericite-quartz outer halo. Rocks at the vicinity to mineralisation appear a pervasive Na and to less extent Ca depletion, whereas Mg-rich core is also depleted in SiO2. Mineralisation of the studied deposits is essentially occurring as single massive sulphides seam distributed along the VMS horizon. A VMS type model was used as a basis for constraining the mineralisation using the Leapfrog methodology. The geological characteristics of the VMS type mineralisation are well understood and applied for delineating the mineralised bodies at the project. This implies that base-metal sulphide precipitates from volcanic exhalates on a sea floor or at a shallow depth close to the floor and forming the beds and lenses of massive and semi-massive sulphide mineralisation. Confidence in the model is high because the mineralisation of the studied deposits is essentially occurring as single massive sulphides seam distributed along the VMS horizon. The mineralisation and the host rocks stratigraphy can be delineated between the drill holes. The distances between drillholes intersecting the mineralisation are commonly from 10-30m (at the Winston Lake deposit to 20-40m at the Pick Lake deposit which is sufficient for a confident delineation of the mineralised bodies. The interpretation of the VMS bodies was confirmed by mapping and sampling of the underground developments which are also used for constraining VMS mineralised bodies in 3D. • The different interpret



Criteria	Explanation	Commentary
	Nature of the data used and of any assumptions made.	Geological interpretation and the resource model are based on the drillholes data (1810 drill holes) and underground developments
	The effect, if any, of alternative interpretations on Mineral Resource estimation.	Not applicable. Mineral Resource domains are defined and constrained in 3D by the drillholes and the underground mapping/sampling data which has allowed to generate a robust geological interpretation of the mineralised bodies. The close distances between the drillholes intersecting the VMS strata and reasonably simple geometry of the mineralised bodies does not leave too much rooms for alternative geological interpretations. The differences can be related to the distances of extrapolation of the drillhole grades to the peripheral parts of the VMS bodies.
		In the current estimation this was approximately 75m with a minimum of 4 samples available for averaging the extrapolated grade.
	The use of geology in guiding and controlling Mineral Resource estimation.	The Pick mineralisation was defined by intervals logged as massive and semi-massive sulphides within the Pick clotted rhyolite or tuff units. The assay values for zinc were compared to these intervals and found to correlate well. The zinc percent assay values were used to select intersections where no logging information was present. The interpretation of continuity was based on ore drive level plans that showed mapping information for the sulphide horizon. A nominal cut-off grade of 1% Zn was used to define the mineralised intervals which were used to construct a vein model. Edge boundaries were applied from ore drive extents and long-section mine plans that indicated the conductor boundary position from geophysical surveys.
	The factors affecting continuity both of grade and geology.	Mineralisation of the studied deposits occur essentially as single massive sulphides seams (Pick Lake and Winston) distributed along the VMS horizon which controls the continuity of geology. This zoning, in particular zoned distribution of the Cu-rich and Zn-rich mineralisation, is observed at the studied deposits. Thickness and grade decreases to the peripheral parts of the VMS seams.
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	The project includes two deposits, Pick Lake and Winston. Location and dimensions of the mineralisation is shown on the longitudinal sections (Figures A3.1 and A3.2). The diagrams also contain the drillhole intersections







Criteria	Explanation	Commentary
		South Pick Lake deposit (longsection) Mined area Zn% Geological interpretation of the VMS body Indicated Resource Inferred Resource Exploration Target ### Table 100 mg 100 mg
Estimation and	The nature and	Estimation of the mineralisation grade was made using Ordinary Kriging (OK) technique that was applied to Zn, Cu, Au and Ag.
modelling techniques	appropriateness of	д т.
	the estimation	
	technique(s)	
	applied and key	
	assumptions,	
	including	



Criteria	Explanation	Commentary						
	treatment of			Pick Lake			Winston	
	extreme grade	Model Parameters	Y	X	Z	Y	X	Z
	values, domaining,	Origin Coordinates (block corner)	5423760	470600	9270	5424800	472300	960
	interpolation	Rotation		not used			not used	
	parameters and	Model Extent	740mN	1200mE	1090mZ	1000mN	400mE	700mZ
	maximum distance	Parent Block Size (m)	20	1	20	20	1	20
		Subcells (m)	0.5	0.5	0.5	1	1	1
	of extrapolation	Transformation (flattening)	C	nto Y-Z plan (cetre line mode	2)	Onto Y-	Z plan (cetre line m	iode)
	from data points. If	Attribute	Type	Descript	ion		Description	
	a computer	Domains	assigned	Upper or Lower Pick				
	assisted estimation	Subzone	assigned	Reference to wireframe (1	10, 11, 12, 13, 14)	Refererence to wir	eframe (21)	
	method was	Density (CSG)	calc	Kriging		Kriging		
	chosen include a	VOID	assigned	mined		mined		
		ZN	calc	Kriging		Kriging		
	description of	CU	calc	Kriging		Kriging		
	computer software	AU	calc	Kriging		Kriging		
	and parameters	AG	calc	Kriging		Kriging		
	used.	Volume (m3)	calc	n.a		volume of cell with		
		Pass-1	assigned	Interpolation first pass (1)		Interpolation first	pass (1)	
		RESCAT	assigned	INDICAT, INFER		INDICAT, INFER		
		Tonnage	calc	volume x density		volume x density		
		Estimation procedure include Mineralisation was interpret who used the Leapfrog® prog Wireframes were imported in In order to assure the good fi Pick Lake deposit 0.5 Winston lake deposit	ed and constraine gram for developin nto Micromine® w it of the block mod 5x0.5x0.5m (this is	ng the wireframes of to where the blank block redel to the wireframes of the sub-cell size)	he mineralised b	odies. ed.		ptiro group)



Criteria	Explanation	Commentary
		Drillholes data have been obtained from the central database stored on the Superior Lake's server. The database was monitored by a database administrator.
		The drillholes samples have been marked by assigning the codes corresponding to the wireframe that includes that sample. Samples located outside of the wireframes have not been coded.
		At the Pick Lake 6 wireframes present, referred as 10 (main body), 11, 12, 13, 14, 33. At the Winston Lake only one wireframe, referred as 21.
		The drillhole samples have been coded accordingly to the wireframes: 10, 11, 12, 13, 14, 33 and 21.
		The code was written in the field denoted as SUBZONE (drill holes assay file).
		Because the sample lengths were different the samples have been composited to 1m composites. Compositing was made using optimal compositing algorithm of Datamine ®.
		In order to accurately reproduce in the resource model, the internal zoning of the VMS mineralisation the estimation was facilitated applying the unfolding techniques to the block model and drillholes. The central line flattening algorithm of Micromine® was used for this purpose.
		After flattening, the data have been transferred to Isatis® where the metal grades have been estimated into the block of 20(X) x 20(Y) x 1(Z)m. Coordinates were in the unfolded space.
		Two passes of estimation were used: Pick Lake
		1 st pass: search radii 60x60x2
		Min samples 4
		Max samples 16 (no declustering used)
		2 nd pass: search radii 60x60x4m
		Min samples 1



Criteria	Explanation	Commentary							
		Max samples	12 (no dec	lustering use	ed)				
		WINSTO	M Lako						
				: 20204					
		1 st pass:	search radi	1 30X30X4III					
		Min samples			13				
		Max samples	16 (no dec	lustering use	ed)				
		2 nd pass:	search rad	ii 60x60x6m					
		Min samples	6						
		Max samples	16 (no dec	lustering use	ed)				
			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,				
		For the Winst	on Lake deno	sit second na	ss estimation was	made using Si	mnle Kriging wi	th a local mean To	cal mean grades were
			•	•	ited with the 80x8	_		cii a local ilicali. Lo	carmean grades were
		Cottinated by	averaging an .	samples loca	ited with the boxe	oxioni pancis	•		
		Variogram m	adals of the st	udied metal	s are presented in	the Table			
		Modelled variable		Sill	s are presented in	Range			
		Modelled validable	Structure		Major Axis (Azi 75)		Vertical/D 00\		
			Nugget	15	majur Avis (Azi 15)	MINOLANIS (AZI 103	y vertical (D-50)		
		Zn, %	Spherical - 1	55	20	15	3		
			Spherical - 2	75	90	50	33		
		0. 1/	Nugget	0.05					
		Cu, %	Spherical - 1 Spherical - 2	0.32 0.22	20 150	20 40	8		
			Nugget	0.03	150	-10	17		
		Au, g/t	Spherical - 1	0.06	10	10	6		
			Spherical - 2	0.07	90	70	6		
		Ac cit	Nugget Sebesical 4	300	60	40	0		
		Ag, g/t	Spherical - 1 Spherical - 2	700 300	60 90	40 90	6 11		
			Nugget	0.05	30	30			
		DENSITY (CSG)	Spherical - 1	0.10	20	20	11		
			Spherical - 2	0.07	90	90	11		
		After comple	tion of the est	imation the	block model have	heen transferi	ed back to Mici	romine and estima	ted block grades have
		•	to correspond				Ca Sack to William	omme and collina	cea stock brades have
		been copied	to correspond	ing them sui	J CC113.				



Criteria	Explanation	Commentary
	The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such	Previous estimate of the Pick resources made in 2018 was 1.84 Mt @ 18.8%Zn The 2019 estimate is 2.06 Mt @ 18.3 % Zn The increase of the resources is related to additional drillholes that has allowed to extend the resources and as a result of this, Lower and Upper Pick domains have joined into a single stratiform massive sulphide body.
	data. The assumptions made regarding recovery of by-products.	The main metals are Zn and Cu. Mineralisation also contains Au and Ag which are by-products. All four metals were estimated into the block model. Cu, Au and Ag grades are reported within the Zn resource ie., the associated minerals are not reported as separate domains. It is likely that silver will have a similar recovery to that of the copper. This assumption is made because of strong correlation between these metals indicating that silver is likely present as a mixture of chalcopyrite which is the main copper mineral at this project.
		Historical Recoveries or by-products during the 11 years of processing in the concentrator at the site were: Copper 77 % Gold 32 % Silver 36 %
	Estimation of deleterious elements or other non-grade variables of economic significance (e.g.	Deleterious elements were not analysed and were not used in the current estimation. From production records and environmental monitoring of water discharge the concentrates were known to not host deleterious material, and after 30 years there is no record or indication of heavy metal impacts to the environment from water discharge.



Criteria	Explanation	Commentary
	sulphur for acid mine drainage characterisation).	
	In the case of block model interpolation, the block size in	The distances between drillholes intersecting the mineralisation are commonly from 10-30m (at the Winston Lake deposit to 20-40m at the Pick Lake deposit which is sufficient for a confident delineation of the mineralised bodies. The parent blocks were 20x20x1m which is in a good accordance with the drilling grids.
	relation to the average sample spacing and the search employed.	At the peripheral parts of the Pick Lake deposit the drill spacing is broader, however, usually not farther then 60-80m therefore the chosen blocks size (20x20x1) is also complaint with the drill spacings in these areas.
	Any assumptions behind modelling of selective mining units.	The mining methods used at this project include mechanised AVOCA and Alimak stoping. Neither of these methods are planned to be used, with the adoption of a sublevel longhole stoping method with introduced paste fill being proposed on the resumption of operations. It is assumed that mining selectivity will be approximately in the range of 10x10x1 to 20x20x1m. The used block size for estimation resources was 20x20x1m, which corresponds to assumed size of the SMU blocks
	Any assumptions about correlation between variables.	tho-0.867 + + + + + + + + + + + + + + + + + + +
		Fig. A3.3: Ag vs Cu diagram, Pick Lake deposit drill hole data



Criteria	Explanation	Commentary
		Cu and Ag appear a strong correlation (Fig.A3.3), with coefficient of correlation (rho) equal to 0.87. Between other metals correlation is insignificant or lacking
	Description of how the geological interpretation was used to control the	VMS type model was used as a basis for constraining the mineralisation using the LeapFrog methodology. According to this model the base-metal sulphides precipitate from volcanic exhalates on a sea floor and form the planar beds and lenses of massive sulphide mineralisation.
	resource estimates. Discussion of basis for using or not using grade cutting or capping.	This interpretation was implemented as 3D wireframes of the VMS seams that were created using Leapfrog software High grade cut-off was applied to all metals. The cut off values, determined at approximately 2% on the probability curve, were as follows: Zn - 38% Cu - 2.4% Au - 0.7 g/t Ag - 95 g/t
		These values were applied as a lower cut off if the estimated block was located at the distance of 30m and larger from the data point.
	The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.	Estimation was validated by plotting the block grades vs corresponding them sample grades. The data have been grouped into 40m panels drawn across the VMS bodies.



Criteria	Explanation	Commentary
		Fig. A3.4. Swath plot comparing block model and sample grades, Pick Lake deposit
		The diagram (Fig. A3.4) show that model properly honours the drillhole data and accurately reproduces the local variability of the grade The model was also visually expected and compared with the drillholes data. Review of the model by cross-sections has shown
		that model accurately reproduces layering and zoning of the VMS seam (Fig. A3.5)



Criteria	Explanation	Commentary
		Fig. A3.5 Cross-section through the Pick Lake resource block model. Drill holes are shown for the reference
Moisture	Whether the tonnages are estimated on a dry basis or with natural moisture,	Tonnage is estimated using the dry bulk density (DBD). Moisture was not determined and was not used



Criteria	Explanation	Commentary
	and the method of determination of the moisture content.	
Cut-off parameters	The basis of the adopted cut-off grade(s) or quality parameters applied.	A nominal grade of 1% Zn was used to interpret continuity for mineralisation domains. There is a sharp boundary contact with unmineralised host rock and there is no halo mineralisation
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	Winston Lake and Pick Lake deposits have been mined using mechanised underground mining with the AVOCA mining method predominately used at Winston (Fig. A3.6) and Alimak initially at the upper Pick area. The use of Alimak was adopted above the 615 m level as no development was in place at the time of stoping and given the low price of zinc a decision was made to reduce ramp access costs. Historical mining used a minimum mining width of 2m (horizontal thickness) based on the designed development on ore of 4m x 4m. Superior will evaluate a sublevel longhole stoping with paste fill. Instead of using unconsolidated waste fill, the mining method will use cemented paste fill better controlling the hanging wall radius of the stopes and crucially the time to fill.



Criteria	Explanation	Commentary
	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	Fig. A3.6: Underground drives at the Winston Lake deposit
Metallurgical factors	The basis for	Past production was successful and has demonstrated that mineralisation is amenable for processing using conventional
or assumptions	assumptions or predictions	flotation technologies and the valuable metals are recovered as the sulphide concentrate.
	regarding metallurgical amenability. It is	The concentrator process combined crushing, grinding, flotation and dewatering to produce two separate high-grade concentrates, zinc and copper (Fig. A3.7). The ore was hoisted via a vertical shaft into a fine ore bin and processed at a rate of



Criteria Expl	olanation Commentary	
as part of process determined reasonal prospect eventual extraction consider metallul method assump regardined treatment process parame when reasonal may not rigorous this is the should be with an explanal basis of metallul.	Schrieber and loss of mining able cts for all economic tion to the potential targical day, but the potions ting targical tent the ses and the ters made the porting all Resources to talways be as. Where the case, this be reported at ation of the of the	TAIL ® ZA CLEANER TAILS



Criteria	Explanation	Commentary
Environmental factors	Assumptions made	The Winston Lake - Pick Lake project is free of environmental liabilities.
or assumptions	regarding possible	
	waste and process	The environmental considerations are limited to the site rehabilitation, including
	residue disposal	the stockpile area, sedimentation basins, and building foundations. Restoration works
	options. It is always	have been completed except for the building foundations.
	necessary as part	
	of the process of	Monitoring of the water quality from the mine started at mine closure and will be required for a period of 10 years
	determining	The CP has been advised there are no impediments to recommencement of mining activities.
	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	



Criteria	Explanation	Commentary
	environmental impacts should be reported. Where these aspects have not been	
	considered this should be reported with an explanation of the environmental assumptions made.	
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.	654 samples have measured SG and 714 samples have CSG (calculated SG) where: CSG = (((100-S%)*2.7+R%*5+(R%*(Po%+0.001)/(Py%+0.001))*4.6) +Cu%/0.3*4.1+Zn%/0.6*3.9)/100 S% =Sulphide % calc, R%= re-Py%
	The bulk density for bulk material must have been measured by methods that adequately account	The Superior Lake Ltd geological team believes that the techniques used for measuring the rock density are compliant with the Canadian mining industry practices. The measured values have been confirmed by the mine production. Estimated (CSG) densities well correlates with measured densities (SG) (Fig. A3.8) and they are suitable for resource estimation.



Criteria	Explanation	Commentary
	for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit.	Pick-Winston SG/CSG Comparison y = 0.9267x + 0.2762 R ² = 0.7533. 3 2.5 2.5 3 3.5 4.5 Measured
Classification	Discuss assumptions for bulk density estimates used in the evaluation process of the different materials. The basis for the	Fig. A3.8: Calculated density (CSG) vs measured density (SG) The density values have been estimated into the block model using ordinary kriging. This has allowed to obtain the more accurate local estimates of the densities, in particular in the high-grade areas The blocks were classified as Indicated Resource if the block is located at the distance in the unfolded space approximately
Ciussificution	classification of the Mineral Resources	40(X) x 40(Y)m from the nearest drillhole (Fig. A3.9).



Criteria Explanatio	Commentary
into varying confidence categories.	Other blocks, that were estimated by the pass-2 of kriging (Pick Lake: search radii 60x60x4m and minimum 1 samples) (Winston lake: search radii 60x60x6m and minimum 6 samples) and located outside of the 40x40m area were classified as Inferred. South South South Outher blocks, that were estimated by the pass-2 of kriging (Pick Lake: search radii 60x60x4m and minimum 1 samples) (Winston lake: search radii 60x60x6m and minimum 6 samples) and located outside of the 40x40m area were classified as Inferred. North South S
Whether appropriate account has be taken of all relevant factor relative confide	 Geostatistically estimated grade and geology Geostatistically estimated (using conditional simulation) level of grade uncertainty and based on this, using an



Criteria	Explanation	Commentary
	in tonnage/grade	
	estimations,	
	reliability of input	
	data, confidence in	
	continuity of	
	geology and metal	
	values, quality,	
	quantity and	
	distribution of the	
	data).	
Audits or reviews	The results of any	An alternate resource estimation was completed in 2018 by independent consultant Mr Alfred Gillman, who used an inverse
	audits or reviews of	squared distance estimation methodology. The results are consistent with the reported tonnes and grade and support the
	Mineral Resource	2019 Mineral Resource estimate.
	estimates.	
	Where appropriate	Confidence in this Mineral Resource estimate was assessed using conditional simulation technique (SGS method) applied to the
	a statement of the	data of the central part of the Lower Pick domain, which was prepared for production by developing the underground drives.
	relative accuracy	The distribution of the drillhole in this area is approximately 35 x 35m grid.
	and confidence	
	level in the Mineral	A 2D model was constructed for estimation uncertainty in estimated metal accumulations, GT-Zn m%. (GT denotes the product
	Resource estimate	of Zn grade by horizontal thickness of the intersection).
	using an approach	
	or procedure	Two estimation errors were deduced from the SGS model, the global error for entire Lower Pick domain and local estimate.
	deemed	The latter was obtained for 50m panels drawn through the entire strike length of the Lower Pick domain (Fig. 10). These 50m
	appropriate by the	panels correspond to approximately 1 year of the mine production, therefore the estimated error corresponds to uncertainty
	Competent Person.	in the estimated annual production.
	For example, the	Desults of the CCC method are as follows:
	application of	Results of the SGS method are as follows:
	statistical or	Average CT 7n of the Lower Bick demain is estimated with an error L/ 7.7% (at 0.05 CL)
	geostatistical	Average GT-Zn of the Lower Pick domain is estimated with an error +/- 7.7% (at 0.95 CL)
	procedures to	



Criteria	Explanation	Commentary
	quantify the	Average GT-Zn of the 50m panels (annual production) are estimated with an average error $\pm -14.6\%$ (range $\pm 1.1 - 20.4\%$).
	relative accuracy of	
	the resource within	These results were a basis for choosing a drill grid of approximately 30-40 x 30-40m grid as criteria for classification
	stated confidence	mineralisation as Indicated resource
	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.	
	The statement	
	should specify	The obtained GT-Zn uncertainty relates to global and local estimates. Global estimate includes the central area of the Lower
	whether it relates	Pick domain that was essentially prepared for production (Fig. A3.10). Local estimates is made by 50m through the Lower Pick
	to global or local	domain (Fig.A3.10). The panels represent approximately 1 year of the mine production.
	estimates, and, if	
	local, state the	
	relevant tonnages,	
	which should be	
	relevant to	
	technical and	
	economic	
	evaluation.	
	Documentation	
	should include	
	assumptions made	



Criteria	Explanation	Commentary
	and the procedures used.	## PROPERTY OF THE PROPERTY OF
	These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.	Not applicable – production data not yet available.