

Technical Report for Lake Giles Magnetite Mineral Resource

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Announcement Highlights

- Macarthur Minerals files NI43-101 Technical Report for the magnetite Mineral Resource at its Lake Giles Iron Project
- Measured Mineral Resources totaling 53.9 Mt and Indicated Mineral Resources of 218.7 Mt
- Inferred Mineral Resource of 997.0 Mt
- Macarthur now has sufficient Mineral Resources in the appropriate categories to progress its Feasibility Study

VANCOUVER, British Columbia, Oct. 01, 2020 -- [Macarthur Minerals Ltd.](#) (TSX-V: MMS) (ASX: MIO) (OTCQB: MMSDF) (the "Company" or "Macarthur") is pleased to announce it has filed the technical report for the magnetite Mineral Resource update for its 100% owned Lake Giles Iron Project ("the Project") in Western Australia.

The independent technical report, entitled "NI43-101 Technical Report, Magnetite Mineral Resource, Lake Giles Magnetite Project, Western Australia (2020 Technical Report)" with an issue date of September 29, 2020 was prepared in accordance with the requirements of National Instrument 43-101 ("NI 43-101"). The 2020 Technical Report is filed under the Company's profile on the System for Electronic Document Analysis and Retrieval ("SEDAR") website at www.sedar.com (filing date: October 1, 2020) and on the Company's website at www.macarthurminerals.com.

The Technical Report was completed by independent geological consultants CSA Global Pty Ltd (CSA Global).

The previous Mineral Resource estimates presented to the market between 2009¹ and 2019² consisted entirely of Inferred resources, including 710 million tonnes ("Mt") at the Moonshine deposits. During 2019 the Company completed a program of infill drilling across some of the Moonshine deposit to upgrade the Mineral Resource category to include Indicated and Measured resources. The Mineral Resource upgrade has delivered sufficient resources in the appropriate categories to underpin the current Lake Giles Iron Project Feasibility Study.

The updated Mineral Resource estimates incorporate the recent drill assays and has resulted in an increase in the size of the Moonshine mineral resources, including resource category upgrades to now include Measured and Indicated resources. Approximately 30% of the Moonshine resource is now classified as Indicated with approximately 7.5% classified in the Measured category.

Highlights of Mineral Resource estimates:

- Measured resources of 53.9 Mt at 30.8% Fe head grade and 66.0% Fe DTR concentrate grade
- Indicated resources of 218.7 Mt at 27.5% Fe head grade and 66.1% Fe DTR concentrate grade
- Inferred resources of 997.0 Mt at 28.4% Fe head grade and 64.6% Fe DTR concentrate grade

Mineral Resource Update

The Lake Giles Mineral Resource estimates have been updated by CSA Global and reported in accordance with the Canadian Institute of Mining, Metallurgy and Petroleum ("CIM") Definition Standards.

The Mineral Resource estimate includes recent infill drilling conducted at the Moonshine deposits as

previously disclosed on May 5, 2020 (see full release here).

Figures 1 and 2 show the distribution of the Mineral Resource categories within the domains hosting the Measured and Indicated Mineral Resources for the Moonshine deposits. Macarthur's infill drilling program concentrated on just a portion of the previously reported Mineral Resource² to establish Measured and Indicated Mineral Resources to underpin the Feasibility Study of the Lake Giles Iron Project. Further drilling beyond the Measured Mineral Resource will be conducted as required however, the Company is confident it has established sufficient Mineral Resources to support its Feasibility Study.

The Inferred Mineral Resources in Moonshine North (western domains) are extended to beyond 200m below the depth of drilling, with geological continuity at these depths implied based upon results from aeromagnetic surveys. The results from the aeromagnetic surveys covering Moonshine are less clear and there is therefore less confidence in the interpreted depth extension of the host Banded Iron Formation (BIF) unit where there is no drill hole support.

Photos accompanying this announcement are available at:

<https://www.globenewswire.com/NewsRoom/AttachmentNg/44c10688-bab6-4ae5-88db-70f517115902>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/283772de-0f25-4d5a-98b3-8e19c43dfe23>

Mineral Resource Estimates

The Mineral Resources are reported above a Davis Tube Recovery (“DTR”) mass recovery of 15% and presented in Tables 1-3. Previous resource estimates for the Snark, Clark Hill North, Clark Hill South and Sandalwood deposits¹ have been reviewed and reported in accordance with current CIM Definition Standards. Locations of the various deposits are presented in Figure 3.

Table 1 Mineral Resource estimate, Moonshine and Moonshine North, where DTR>15%

Category	Tonnes (MT)	Head Grade (%)					Concentrate Grade (%)					
		Fe	P	SiO ₂	Al ₂ O ₃	LOI	DTR	Fe	P	SiO ₂	Al ₂ O ₃	LOI
Measured	53.9	30.8	0.05	45.4	1.6	2.7	32.2	66.0	0.031	6.2	0.2	-0.7
Indicated	218.7	27.5	0.046	51.1	1.4	1.6	31.0	66.1	0.017	6.7	0.1	-0.1
Sub-total	272.5	28.1	0.047	50.0	1.4	1.8	31.2	66.1	0.02	6.6	0.2	-0.2
Inferred	449.1	27.1	0.047	52.6	1.0	1.4	29.2	65.0	0.026	8.4	0.1	0

Table 2 Mineral Resource estimate, Sandalwood, Clark Hill North, Clark Hill South and Snark, where DTR>15%

Deposit	Category	Tonnes (MT)	Head Grade (%)				Concentrate Grade (%)					
			Fe	SiO ₂	Al ₂ O ₃	LOI	DTR	Fe	P	SiO ₂	Al ₂ O ₃	LOI
Sandalwood	Inferred	334	31.1	48.4	1.5	-0.6	33.1	64.7	0.03	9.5	0.06	-2.7
Snark	Inferred	69	27.8	49.8	1.6	2.4	23.4	66.2	0.03	7.5	0.13	-2.8
Clark Hill North	Inferred	130	25.8	42.6	1.7	0.14	33.2	62.4	0.04	12.1	0.16	-2.6
Clark Hill South	Inferred	15	32.3	47.0	0.6	0.02	31	63.8	0.02	9.8	0.14	0.0

Table 3 Mineral Resource estimate, all deposits, where DTR>15%

Category	Tonnes (MT)	Head Grade (%)					Concentrate Grade (%)					
		Fe	P	SiO ₂	Al ₂ O ₃	LOI	DTR	Fe	P	SiO ₂	Al ₂ O ₃	LOI
Measured	53.9	30.8	0.05	45.4	1.6	2.7	32.2	66.0	0.031	6.2	0.2	-0.7
Indicated	218.7	27.5	0.046	51.1	1.4	1.6	31.0	66.1	0.017	6.7	0.1	-0.1
Sub-total	272.5	28.1	0.047	50.0	1.4	1.8	31.2	66.1	0.02	6.6	0.2	-0.2

Inferred 997.0 28.4 0.05 49.6 1.3 0.6 30.6 64.6 0.03 9.2 0.1 -1.5

Notes (for all Tables):

- *Figures contained within the Tables have been rounded.*
- *Resource estimates are based on block models constructed using three dimensional geological wireframes.*
- *Mineral Resources are reported from the block models above a DTR cut-off grade of 15%*
- *Mineral Resources are not Mineral Reserves and do not have demonstrated economic viability.*

A photo accompanying this announcement is available at
<https://www.globenewswire.com/NewsRoom/AttachmentNg/324c9fc9-29aa-47b0-b402-27eee0ba46d6>

¹ NI 43-101 Technical Report filed December 17, 2009, titled “NI 43-101 Technical Report on Lake Giles Iron Ore Project: Western Australia.”

² NI 43-101 Technical Report filed June 13, 2019, titled “NI43-101 Technical report, [Macarthur Minerals Ltd.](#), Preliminary Economic Assessment Lake Giles Iron Project.

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The Mineral Resources for the Lake Giles Magnetite Project disclosed in the press release have been estimated by Mr. David Williams, BSc (Hons), a member of the Australian Institute of Geoscientists. Mr. Williams, an employee of CSA Global Pty Ltd and an Independent Qualified Person, has reviewed and approved the above technical information relating to the Mineral Resource estimates contained in this release, in the form and context in which it appears.

Company profile

Macarthur is an iron ore development, gold and lithium exploration company that is focused on bringing to production its Western Australia iron ore projects. The Lake Giles Iron Project mineral resources include the Ularring hematite resource (approved for development) comprising Indicated resources of 54.5 million tonnes at 47.2% Fe and Inferred resources of 26 million tonnes at 45.4% Fe; and the Lake Giles magnetite resource of 53.9 million tonnes (Measured), 218.7 million tonnes (Indicated) and 997 million tonnes (Inferred). Macarthur has prominent (~721 square kilometer tenement area) gold, lithium and copper exploration interests in Pilbara region of Western Australia. In addition, Macarthur has lithium brine Claims in the emerging Railroad Valley region in Nevada, USA.

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