

25 January 2023

METALLURGICAL PROCESSING PROGRAM UNDERWAY AT MANNA LITHIUM PROJECT

Feasibility Study to Commence Q1 CY23

Key Highlights

- Metallurgical processing program (“**Study**”) has commenced at the Manna Lithium Project with leading resources engineering firm Wave International (“**Wave**”) appointed to undertake the Study in conjunction with GL1
- Wave to define and test the metallurgical upgrade process to produce a spodumene concentrate for the Manna Lithium Project
- Outcomes of Study to underpin the Manna Feasibility Study, scheduled to commence in Q1 CY2023
- Manna Lithium Project currently hosts a Mineral Resource Estimate (**MRE**) of **32.7Mt @ 1.0% Li₂O**

Growing multi-asset West Australian lithium company Global Lithium Resources Limited (**ASX: GL1**, “**Global Lithium**” or “the **Company**”) is pleased to announce it has commenced a detailed Metallurgical processing program for the Manna Lithium Project, located 100km east of Kalgoorlie in the Goldfields region.

Leading resources engineering firm Wave International has been appointed to undertake the Study, which will define and test the metallurgical upgrade processes to produce an industry standard spodumene concentrate for the Manna Lithium Project.

The Scoping Study that is currently underway for the Manna Lithium Project uses industry standards for spodumene concentrate recoveries to establish the parameters for the Study. The outcomes of this Study will underpin actual recovery and grade information to be used in the subsequent Feasibility Study that is scheduled to commence in Q1 CY23, whilst also identifying key risks and opportunities. Wave, in conjunction with Global Lithium, will develop the forward work plan summarising the necessary engineering and plant requirements, through to project implementation.

Wave is a development consultant with over 20 years of global experience in engineering, project strategy, feasibility studies, detailed design, project delivery and operational support. has established significant capability in the battery minerals market across the lithium, vanadium, graphite and cobalt sectors and

also have an established reputation for enabling successful commercialisation for junior and mid-tier battery mineral companies.

The key deliverables of the Study include:

Stage 0 – Characterisation:

- Sample receipt, preparation, and handling of core samples from GL1
- Characterisation of samples into defined zones
- Mineralogy on characterised samples
- Comminution testwork on characterised samples

Stage 1 – Preliminary Heavy Liquid Separation (HLS) and flotation:

- HLS testwork on characterised samples
- Whole of Ore (**WOO**) flotation testwork on characterised samples
- Interim report, including analysis and recommendations for Stage 2

Stage 2 –HLS / or flotation development:

Following analysis of the preliminary HLS results, Stage 2 testwork will be undertaken on a more defined flowsheet and will comprise the following;

- HLS testwork on samples
- Mica removal via batch reflux classifying
- Dense Media Separation (DMS) testwork at selected crush size
- Magnetic separation on DMS concentrate
- Further flotation development
- Interim report, including analysis and recommendations for preferred flowsheet configuration and key process design criteria for engineering development

Stage 3 – Variability

- Sample receipt, preparation, and handling of core samples from throughout the Manna Project
- HLS testwork on preferred regime from previous stages (unless ruled out by previous testwork)
- Flotation testwork on selected samples on preferred regime from previous stages
- Additional testwork iterations to understand adjustments required to the flow sheet
- Process design criteria to achieve acceptable results

Stage 4 – Final report, including any recommendations and final flow sheet.

Global Lithium Managing Director, Ron Mitchell commented,

"We are excited to have kicked off 2023 with the commencement of another key milestone in relation to the Manna Lithium Project. The scope of this metallurgical program will provide Global Lithium with robust inputs for our Manna Feasibility Study, which is due to commence in Q1 CY23. We look forward to updating shareholders as the full results of this Study become available later in the year."

Approved by the board of Global Lithium Resources Limited.

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About Global Lithium

Global Lithium Resources Limited (ASX:GL1, Global Lithium) is a diversified lithium company with multiple assets in key lithium branded jurisdictions with a primary focus on the 100%-owned Marble Bar Lithium Project (MBLP) in the Pilbara region and the Manna Lithium Project in the Goldfields, Western Australia.

Global Lithium has now defined a total Inferred and Indicated Mineral Resource of 50.7Mt @ 1.0% Li₂O at its MBLP and Manna Lithium projects, confirming Global Lithium as a significant global lithium player aiming to fast track into development.

Global Lithium's major shareholders include Suzhou TA&A Ultra Clean Technology Co. Limited (Suzhou TA&A), a controlling shareholder of Yibin Tianyi Lithium, a joint venture between Suzhou TA&A (SZSE: 300390) (75%) and CATL (SZSE: 300750) (25%), the world's largest EV battery producer, and ASX listed Mineral Resources Limited (ASX: MIN).

Directors

Warrick Hazeldine	Non-Executive Chair
Ron Mitchell	Managing Director
Dr Dianmin Chen	Non-Executive Director
Greg Lilleyman	Non-Executive Director
Hayley Lawrance	Non-Executive Director

Global Lithium – Mineral Resources

Project Name	Category	Million Tonnes (Mt)	Li ₂ O%	Ta ₂ O ₅ ppm
Marble Bar	<i>Indicated</i>	3.8	0.97	53
	<i>Inferred</i>	14.2	1.01	50
	Subtotal	18.0	1.00	51
Manna	<i>Indicated</i>	18.5	1.03	45
	<i>Inferred</i>	14.2	0.97	43
	Subtotal	32.7	1.00	44
Combined Total		50.7	1.00	46

Competent Persons Statement:

Mineral Resources

Information on historical exploration results and Mineral Resources for the Manna Lithium Project and the Marble Bar Lithium Project presented in this announcement, together with JORC Table 1 information, is contained in an ASX announcement released on 15 December 2022.

The Company confirms that it is not aware of any new information or data that materially affects the information in the relevant market announcements, and that the form and context in which the Competent Persons findings are presented have not been materially modified from the original announcements.

Where the Company refers to Mineral Resources in this announcement (referencing previous releases made to the ASX), it confirms that it is not aware of any new information or data that materially affects the information included in that announcement and all material assumptions and technical parameters underpinning the Mineral Resource estimate in that announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons findings are presented have not materially changed from the original announcement.