Medaro's Spodumene Processing Technology Achieves Greater Than 95% Lithium Recovery From Both High- And Low-Purity Spodumene

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VANCOUVER, June 01, 2023 - Medaro Mining Corp. (CSE: MEDA OTC:MEDAF FWB:1ZY) ("Medaro" or the "Company"), a multi-faceted venture aimed at developing innovative hard rock lithium extraction technologies concurrent with its lithium focused exploration in Canada, is pleased to report new, extremely positive lithium recovery data derived from use of the company's patent-pending spodumene processing technology (the "Technology"). In bench-scale laboratory tests performed recently under mild experimental conditions, application of the Technology culminated in extraction of greater than 95% of the lithium present in two very different ?-spodumene compositions, one very pure (rich in lithium with low ppm concentrations of minor and trace elements), the other relatively impure (comparatively lithium-poor with significant ppm concentrations of minor and trace elements). Further explanation of the work, along with important analytical data and calculated values developed from it, appear below.

Lithium Extraction Results for a High-Purity ?-Spodumene^{1,2}

Subsample	ppm Li in subsample	Subsample pair	ppm Li in subsample pair	Calculate Li leache	
Subsample 1, unleached	36,400	{Subsample 1, unleached Subsample 1, leached}	36,400 ppm and 1,470 ppm	96.0	%
Subsample 2, unleached	35,700	{Subsample 1, unleached Subsample 2, leached}	36,400 ppm and 1,050 ppm	97.1	%
Subsample 1, leached	1,470	{Subsample 2, unleached Subsample 1, leached}	35,700 ppm and 1,470 ppm	95.9	%
Subsample 2, leached	1,050	{Subsample 2, unleached Subsample 2, leached}	35,700 ppm and 1,050 ppm	97.1	%

Notes:

¹A small batch of granular high-purity ?-spodumene was formed by processing a piece of a large single crystal of spodumene excavated from a mine in the Black Hills of South Dakota, USA-the resulting granular material subsequently being calcined at ~1,050 °C to induce the ?-to-? polymorphic phase transition.

²The values for ppm Li provided in this table, and also the ppm concentrations for other elements listed in Note 3 below-measured by Galbraith Laboratories, Inc. (Knoxville, Tennessee, USA)-were communicated to Medaro in Galbraith Report 147768 dated 5/9/23.

³The following analytically determined ppm concentrations of elements in the two unleached subsamples of the ?-spodumene attest to its high purity: AI, 146,000 and 148,000 ppm; Si, 286,000 and 285,000 ppm; Fe, 923 and 905 ppm; Mn, 413 and 410 ppm; Na, 1,750 and 1,760 ppm; Ca, 705 and 430 ppm; and Mg, 185 and 122 ppm.

 4 The average of the four values below, and the standard deviation of that average, are 96.5% and $\pm 0.7\%$ respectively.

Lithium Extraction Results for a Low-Purity ?-Spodumene^{1,2}

Subsample ppm Li in subsample Pair ppm Li in Subsample pair ppm Li in Subsample pair Calculated % Li leached4

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Subsample 1, 32,500 unleached	{Subsample 1, unleached 32,500 ppm and 1,190 ppm 96.3 Subsample 1, leached}	%
Subsample 2, 32,400 unleached	{Subsample 1, unleached 32,500 ppm and 1,600 ppm 95.1 Subsample 2, leached}	%
Subsample 1, 1,190 leached	{Subsample 2, unleached 32,400 ppm and 1,190 ppm 96.3 Subsample 1, leached}	%
Subsample 2, 1,600 leached	{Subsample 2, unleached 32,400 ppm and 1,600 ppm 95.1 Subsample 2, leached}	%

Notes:

¹A small batch of granular low-purity ?-spodumene was created using a heavy liquid to separate out grains of the mineral present in a small sample of a large mass of spodumene concentrate manufactured industrially in China, the resulting mineralogically pure mass of ?-spodumene then being calcined at ~1,050 °C to convert the grains in it to the ? crystallographic form.

²The values for ppm Li provided in this table, and also the ppm concentrations for other elements listed in Note 3 below-measured by Galbraith Laboratories, Inc. (Knoxville, Tennessee, USA)-were communicated to Medaro in Galbraith Report 147822 dated 5/10/23.

³The following analytically determined ppm concentrations of elements in the two unleached subsamples of the ?-spodumene reflect its lower purity: Al, 140,000 and 138,000 ppm; Si, 280,000 and 271,000 ppm; Fe, 7,690 and 7,790 ppm; Mn, 1,530 and 1,590 ppm; Na, 2,770 and 2,370 ppm; Ca, 6,500 and 6,530 ppm; and Mg, 2,760 and 2,370 ppm.

 4 The average of the four values below, and the standard deviation of that average, are 95.7% and $\pm 0.7\%$ respectively.

Assessing the significance of the results presented above, Medaro CTO Dr. Jim Blencoe states: "The extent to which lithium was extracted from the two very different spodumene compositions exceeded my most optimistic expectations. Also, it was surprising and very encouraging to find that relatively high ppm concentrations of iron, calcium, magnesium, etc. in the lower purity spodumene had no discernible effects on the percent of lithium recovered. I believe these two very favorable characteristics of the data fully justify aggressive follow-on work to further assess the viability of the Medaro technology as an alternative to current commercial methods for manufacturing lithium carbonate, lithium hydroxide monohydrate, and lithium metal from spodumene concentrates."

Faizaan Lalani, Medaro President, also states: "These recent lithium extraction results are extremely encouraging and strongly support our belief that the Medaro technology will have global applicability."

On Behalf of the Board of Directors Faizaan Lalani President & Director

About the Company

The Company is a lithium exploration company based in Vancouver, BC, and holds options over the Darlin, Rapide, Pontax, Lac La Motte and CYR South lithium properties in Quebec and the Yurichson Uranium property in the Athabasca basin in Saskatchewan. The Company is a party to a joint venture agreement that engages the Company in the development and commercialization of a new process to extract lithium from spodumene concentrate.

For more information, investors should review the Company's filings that are available at www.sedar.com.

Forward-Looking Statements

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This news release contains certain forward-looking statements within the meaning of applicable securities laws. All statements that are not historical facts, including without limitation, statements regarding future estimates, plans, programs, forecasts, projections, objectives, assumptions, expectations or beliefs of future performance, including statements regarding (i) high concentrations of iron, calcium, and magnesium in the lower purity spodumene having no discernible effects on the percent of lithium recovered being encouraging, (ii) the data justifying aggressive follow-on work, are "forward-looking statements." These forward-looking statements reflect the expectations or beliefs of management of the Company based on information currently available to it. Forward-looking statements are subject to a number of risks and uncertainties, including those detailed from time to time in filings made by the Company with securities regulatory authorities, which may cause actual outcomes to differ materially from those discussed in the forward-looking statements. These factors should be considered carefully, and readers are cautioned not to place undue reliance on such forward-looking statements. The forward-looking statements and information contained in this news release are made as of the date hereof and the Company undertakes no obligation to update publicly or revise any forward-looking statements or information, whether as a result of new information, future events or otherwise, unless so required by applicable securities laws.

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