

JAGUAR MINING INC. STRENGTHENS SENIOR LEADERSHIP TEAM, ENHANCING FOCUS ON GOVERNANCE AND SUSTAINABILITY

Toronto, September 10, 2025 – Jaguar Mining Inc. ("Jaguar" or the "Company") (TSX: JAG) today announced key appointments to its senior leadership team, underscoring its commitment to robust governance, operational excellence, and an enhanced focus on Health, Safety, Environment, and Sustainability. The Company is pleased to announce the promotion of Carla Moura Tavares to Vice President, Corporate Affairs, and the appointment of Juliana Esper as Vice President, Sustainability. These strategic additions bolster Jaguar's leadership team, supporting growth while ensuring the Company remains firmly dedicated to responsible mining practices in alignment with international standards.

Carla Moura Tavares, Vice President, Corporate Affairs: Ms. Tavares has six years of dedicated service at Jaguar, during which she has demonstrated strong leadership and strategic skills. With a legal degree, she has successfully managed Legal, Administration, Communities, and Human Resources. Her in-depth knowledge of both company operations and Brazilian regulations was instrumental in resolving the recent Santinoco pile incident. In her new role, Ms. Tavares will oversee key corporate functions with a focus on governance and stakeholder engagement.

Juliana Esper, Vice President, Sustainability: In this new role, Ms. Esper will lead Jaguar's Health, Safety, and Environment team (HSE) and serve as a member of the senior leadership team, reflecting the Company's strong commitment to these areas. With over 30 years of mining experience in North and South America, Ms. Esper has led major HSE and community initiatives while ensuring compliance with international sustainability standards. She holds degrees in Mining Engineering, Safety Engineering, Occupational Medicine, and Mineral Characterization. Her extensive expertise will play a key role in advancing Jaguar's sustainability objectives and reinforcing its leadership in responsible mining.

Luis Albano Tondo, Chief Executive Officer of Jaguar, commented: "We are pleased to welcome Juliana and to recognize Carla with this well-deserved promotion into key Vice President roles. Carla's extensive knowledge of our operations and her pivotal role in navigating recent negotiations with Brazilian authorities make her the ideal leader for Corporate Affairs. I also previously had the privilege of working with Juliana on the licensing and construction of the Kinross Paracatu Expansion Project, which became Brazil's largest gold mining operation. Her international experience and proven track record in sustainability and HSE will be invaluable as we continue to advance our environmental stewardship, strengthen safety performance and uphold our commitment to responsible mining. These appointments further align Jaguar's leadership structure with our long-term growth strategy and ESG priorities, ensuring we remain well positioned to deliver sustainable value."

The Iron Quadrangle

The Iron Quadrangle has been an area of mineral exploration dating back to the 16th century. The discovery in 1699–1701 of gold contaminated with iron and platinum-group metals in the southeastern corner of the Iron Quadrangle gave rise to the name of the town Ouro Preto (Black Gold). The Iron Quadrangle contains world-class multi-million-ounce gold deposits such as Morro Velho, Cuiabá, and São Bento. Jaguar holds the second largest gold land position in the Iron Quadrangle with over 46,000 hectares.

About Jaguar Mining Inc.

Jaguar Mining Inc. is a Canadian-listed junior gold mining, development, and exploration company operating in Brazil with three gold mining complexes and a large land package with significant upside exploration potential from mineral claims. The Company's principal operating assets are located in the Iron Quadrangle, a prolific greenstone belt in the state of Minas Gerais and include the MTL complex (Turmalina mine and plant) and Caeté complex (Pilar and Roça Grande mines, and Caeté plant). The Roça Grande mine has been on temporary care and maintenance since April 2019. The Company also owns the Paciência complex (Santa Isabel mine and plant), which had been on care and maintenance since 2012 and is under review to restart in 2026. Additional information is available on the Company's website at www.jaguarmining.com.

For further information please contact:

Luis Albano Tondo Chief Executive Officer Jaguar Mining Inc. luis.albano@jaguarmining.com +55 31-99959-6337

Marina Freitas Interim Chief Financial Officer marina.freitas@jaguarmining.com.br +55 31-98463-5344

Forward-Looking Statements

Certain statements in this news release constitute "forward-looking information" within the meaning of applicable Canadian securities legislation. Forward-looking statements and information are provided for the purpose of providing information about management's expectations and plans relating to the future. All of the forward-looking information made in this news release is qualified by the cautionary statements below and those made in our other filings with the securities regulators in Canada. Forward-looking information contained in forward-looking statements can be identified by the use of words such as "are expected", "is forecast", "is targeted", "approximately", "plans", "anticipates", "projects", "continue", "estimate", "believe" or variations of such words and phrases or statements that certain actions, events or results "may", "could", "would", "might" or "will" be taken, occur or be achieved. All statements, other than statements of historical fact, may be considered to be or include forward-looking information. This news release contains forward-looking information regarding, among other things, management's objectives, strategies, beliefs and intentions, the Company's ability to advance its projects, the nature, focus, timing and potential results of the Company's exploration, development, prospecting and other mining activities in 2025 and beyond, the timing and ability of the Company to recommence operations at its MTL complex following the slump at its Satinoco dry tailings pile, the future stability of the aforementioned tailings pile and safety of the Turmalina mine, and any information and statements related to expected growth, sales, production (including, without limitation, the cost, timing and amount of any future production), ore grades, tonnes milled, recovery rates, cash operating costs, definition/delineation drilling, capital expenditures, and the costs and timing of developing projects and new deposits. The Company has made numerous assumptions with respect to forward-looking information contained herein, including, among other things: assumptions about the future and long-term stability of the Satinoco tailings pile; there will be no unforeseen adverse weather events or other external factors that could impact the Company's plans and objectives including, without limitation, those relating to the Company's exploration, development and mining activities, as well as its recovery and remediation efforts; the estimated timeline for the development of the Company's mineral properties; the supply and demand for, and the level and volatility of the price of, gold; currency fluctuations; estimated capital requirements; the accuracy of reserve and resource estimates and the assumptions on which the reserve and resource estimates are based; the receipt of necessary permits; market competition; ongoing relations with employees and impacted communities; political and legal developments in any jurisdiction in which the Company operates being consistent with its current expectations, and any changes to general business and economic conditions. Forward-looking information involves a number of known and unknown risks and uncertainties, including among others: the risk of Jaguar not meeting its plans and estimated timelines regarding the Company's exploration, development and mining activities, operations

and financial performance; uncertainties with respect to the price of gold, labour disruptions, mechanical failures, increases in costs (for environmental, weather-related, regulatory or any other reasons), environmental compliance and change in environmental legislation and regulation, weather delays and delays due to natural disasters, power disruptions, procurement and delivery of parts and supplies; uncertainties inherent to capital markets in general (including the sometimes volatile valuation of securities and an uncertain ability to raise new capital) and other risks inherent to the gold exploration, development and production industry (including, without limitation, risks associated with environmental hazards, tailings dam failures, industrial accidents, workplace safety problems, unusual or unexpected geological formations, pressures, cave-ins, flooding, chemical spills, procurement fraud and gold bullion thefts and losses, and the risk of inadequate insurance, or the inability to obtain insurance, to cover these risks), which, if incorrect, may cause actual results to differ materially from those anticipated by the Company and described herein. Accordingly, readers should not place undue reliance on forward-looking information.

For additional information with respect to these and other factors and assumptions underlying the forward-looking information made in this news release, see the Company's most recent Annual Information Form and Management's Discussion and Analysis, as well as other public disclosure documents that can be accessed under the issuer profile of "Jaguar Mining Inc." on SEDAR+ at www.sedarplus.com. The forward-looking information set forth herein reflects the Company's reasonable expectations as at the date of this news release and is subject to change after such date. The Company disclaims any intention or obligation to update or revise any forward-looking information, whether as a result of new information, future events or otherwise, other than as required by law. The forward-looking information contained in this news release is expressly qualified by this cautionary statement.