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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

**FORM 6-K**

**REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR  
15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934**

For the month of December 2024

Commission File Number: **001-40786**

**Sigma Lithium Corporation**  
(Translation of registrant's name into English)

**2200 HSBC Building  
885 West Georgia Street  
Vancouver, British Columbia  
V6C 3E8**  
(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.  
Form 20-F ☐ Form 40-F ☒

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1): ☐

**Note:** Regulation S-T Rule 101(b)(1) only permits the submission in paper of a Form 6-K if submitted solely to provide an attached annual report to security holders.

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7): ☐

**Note:** Regulation S-T Rule 101(b)(7) only permits the submission in paper of a Form 6-K if submitted to furnish a report or other document that the registrant foreign private issuer must furnish and make public under the laws of the jurisdiction in which the registrant is incorporated, domiciled or legally organized (the registrant's "home country"), or under the rules of the home country exchange on which the registrant's securities are traded, as long as the report or other document is not a press release, is not required to be and has not been distributed to the registrant's security holders, and, if discussing a material event, has already been the subject of a Form 6-K submission or other Commission filing on EDGAR.

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**EXHIBIT INDEX**

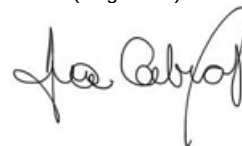
<b><u>Exhibit</u></b>	<b><u>Description</u></b>
<a href="#">99.1</a>	<a href="#">Press release dated December 20, 2024</a>

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**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Sigma Lithium Corporation  
(Registrant)



Date: December 20, 2024

Ana Cristina Cabral Gardner  
Chief Executive Officer

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**SIGMA LITHIUM ENVIRONMENTAL LICENSE FOR BARREIRO MINE  
IS AWARDED WITH UNANIMOUS APPROVAL,  
ENABLING CONTINUOUS INDUSTRIAL-MINING INTEGRATED  
OPERATIONS THROUGHOUT THE 16-YEAR TERM OF DEVELOPMENT BANK FINANCING**

**December 20, 2024. São Paulo, Brazil – Sigma Lithium Corporation (TSXV/NASDAQ: SGML, BVMF: S2GM34)** (“Sigma Lithium” or the “Company”), a leading global lithium producer dedicated to powering the next generation of electric vehicles with carbon-neutral, socially and environmentally sustainable lithium concentrate, is pleased to announce the receipt of a Triple Environmental License (*Licença Operacional (LO)*, *Licença Prévia (LP)*, *Licença Instalação (LI)*) for its Barreiro mine. Barreiro is the second mine site within the Grota do Cirilo property, the Company’s 100% owned operation in Brazil, planned for sequential integration to feed the Company’s Greentech Industrial Plant in the coming years.

Following a rigorous evaluation process, the Triple Environmental License was approved by a unanimous vote, including the votes by all NGO members, in a meeting held today by the members of the Chamber of Mining Activities (*Camara Técnica Especializada em Atividades Minerárias*) of Minas Gerais, Brazil.

This significant milestone secures the long-term continuous mining operations and spodumene ore feedstock supply for the Company’s Greentech Industrial Complex throughout the 16-year term of the BNDES financing.

While current operations do not require immediate mining at the Barreiro Mine, Sigma Lithium has consistently emphasized a proactive approach to environmental permitting. The Company initiated the environmental assessment studies in January 2021 and filed for its environmental license in July 2022. Furthermore, the Company commenced the deployment of social capex to benefit the communities in 2023. In partnership with the Municipalities of Aracuai and Itinga, Sigma Lithium has funded the construction of a school and a childcare unit, and has commissioned two NGOs to provide after-school educational and cultural activities for local children.

This strategic foresight ensures that the Company is well-positioned for future growth and expansion plans. The award of the Triple Environmental License demonstrates this commitment and provides the Company with the necessary regulatory approvals for future operations at Barreiro when required.

Ana Cabral, CEO of Sigma Lithium, stated, *“We are very pleased to have received the construction, installation and operation triple environmental permit required for our Barreiro mine from the Mining Chamber of the State of Minas Gerais. This license provides us with the regulatory framework necessary for our future operations at Barreiro, ensuring a consistent and reliable supply of lithium feedstock for years to come. We deeply appreciate the trust and confidence placed in us by the state of Minas Gerais to continue developing one of the world’s most sustainable lithium operations. The unanimous approval of the Triple Environmental License is a testament to our years-long proactive community engagement activities with our future neighbors, investing social capex well in advance of mining activities, underscoring our unwavering commitment to sustainable and responsible mining practices.”*

#### **ABOUT SIGMA LITHIUM**

Sigma Lithium (TSXV/NASDAQ: SGML, BVMF: S2GM34) is a leading global lithium producer dedicated to powering the next generation of electric vehicle batteries with carbon-neutral, socially and environmentally sustainable chemical-grade lithium concentrate.

Sigma Lithium is one of the world’s largest lithium producers. The Company operates at the forefront of environmental and social sustainability in the electric vehicle battery materials supply chain at its Grota do Cirilo Operation in Brazil. Here, Sigma produces Quintuple Zero Green Lithium at its state-of-the-art Greentech lithium beneficiation plant, delivering net zero carbon lithium, produced with zero carbon intensive energy, zero potable water, zero toxic chemicals and zero tailings dams.

Phase 1 of the Company’s operations entered commercial production in the second quarter of 2023. The Company has issued a Final Investment Decision, formally approving construction to double capacity to 520,000 tonnes of lithium concentrate through the addition of a Phase 2 expansion of its Greentech Plant.

For more information about Sigma Lithium, visit <https://www.sigmalithiumresources.com/>



#### **FOR ADDITIONAL INFORMATION PLEASE CONTACT**

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**Sigma Lithium**

 [Sigma Lithium](https://www.linkedin.com/company/sigma-lithium)

## FORWARD-LOOKING STATEMENTS

*This news release includes certain "forward-looking information" under applicable Canadian and U.S. securities legislation, including but not limited to statements relating to timing and costs related to the general business and operational outlook of the Company, the environmental footprint of tailings and positive ecosystem impact relating thereto, donation and upcycling of tailings, timing and quantities relating to tailings and Green Lithium, achievements and projections relating to the Zero Tailings strategy, achievement of ramp-up volumes, production estimates and the operational status of the Groto do Cirilo Project, and other forward-looking information. All statements that address future plans, activities, events, estimates, expectations or developments that the Company believes, expects or anticipates will or may occur is forward-looking information, including statements regarding the potential development of mineral resources and mineral reserves which may or may not occur. Forward-looking information contained herein is based on certain assumptions regarding, among other things: general economic and political conditions; the stable and supportive legislative, regulatory and community environment in Brazil; demand for lithium, including that such demand is supported by growth in the electric vehicle market; the Company's market position and future financial and operating performance; the Company's estimates of mineral resources and mineral reserves, including whether mineral resources will ever be developed into mineral reserves; and the Company's ability to operate its mineral projects including that the Company will not experience any materials or equipment shortages, any labour or service provider outages or delays or any technical issues. Although management believes that the assumptions and expectations reflected in the forward-looking information are reasonable, there can be no assurance that these assumptions and expectations will prove to be correct. Forward-looking information inherently involves and is subject to risks and uncertainties, including but not limited to that the market prices for lithium may not remain at current levels; and the market for electric vehicles and other large format batteries currently has limited market share and no assurances can be given for the rate at which this market will develop, if at all, which could affect the success of the Company and its ability to develop lithium operations. There can be no assurance that such statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on forward-looking information. The Company disclaims any intention or obligation to update or revise any forward-looking information, whether because of new information, future events or otherwise, except as required by law. For more information on the risks, uncertainties and assumptions that could cause our actual results to differ from current expectations, please refer to the current annual information form of the Company and other public filings available under the Company's profile at [www.sedar.com](http://www.sedar.com).*

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