

**28 October 2020**

**SAYONA & ICS TO COLLABORATE ON CLEAN, GREEN  
LITHIUM HYDROXIDE TECHNOLOGY**

**Highlights**

- **Sayona forms collaboration with Australian clean tech provider, Integrated Carbon Sequestration (ICS) over its clean and green lithium hydroxide production technology**
- **Collaboration to explore refining of spodumene from Sayona's flagship Authier Lithium Project into battery-grade lithium hydroxide, for electric vehicle (EV) and battery markets**
- **Tansim Lithium Project expanded as part of planned development of lithium hub in Abitibi, Québec.**

**Emerging lithium miner Sayona Mining Limited (ASX:SYA)** announced today a collaboration with Australian clean technology provider Integrated Carbon Sequestration Pty Ltd (ICS) over its clean and green lithium hydroxide technology.

The collaboration follows the rapid growth of lithium hydroxide demand in North America on the back of the EV and battery storage revolution, as seen with Tesla's planned development of a lithium hydroxide plant in Texas, the first such move by an automaker into lithium chemicals production.

Under the collaboration, both companies will work jointly on the development of ICS technology for the refining of spodumene into battery-grade lithium hydroxide, as preferred by leading automakers.

Compared with sulfuric acid-based processes, scoping studies undertaken on the ICS Process foreshadow lower capital costs and the halving of operating costs, together with game-changing environmental benefits under its system for recycling all chemicals.

The process also offers particularly high product purities for lithium hydroxide monohydrate, while at least 90% of the lithium in the original ore concentrates can be recovered and converted to marketable

lithium chemical products. In addition, the closed process allows sulfuric acid-based hydroxide plants to be refurbished into clean ICS hydroxide plants at low cost.

Welcoming the agreement, Sayona's Managing Director Brett Lynch said: *"Sayona has long identified the need for downstream processing to occur in Québec, but we have been seeking a cleaner technology to replace current sulfuric acid-based systems."*

*"The ICS Process offers a clean and green solution that could potentially be implemented on-site in Québec, thereby ensuring the province captures increased value from its lithium resources while facilitating the development of a 100% Québec battery, as sought by the Québec Government."*

*"This venture is a major step forward as we work to maximise the value of our planned lithium hub in Abitibi and become a leading supplier of lithium hydroxide to the North American EV market."*

ICS Managing Director Richard Hunwick said the collaboration offered enormous opportunities for both parties as well as the broader lithium industry.

"ICS has been developing our clean and green technology since 2014, working closely with the CSIRO and other leading researchers on a closed-loop process that offers substantial environmental and economic benefits," Mr Hunwick said.

"We are delighted to work with Sayona in exploring the potential of our technology in Québec, a province well served with clean and green hydro power as well as other competitive advantages for supplying the fast-growing North American battery market."

The collaboration follows recent investments by the Canadian federal and Ontario governments supporting Ford Motor Co's C\$2 billion investment in EV production in Ontario, together with a C\$1.5 billion investment by Fiat Chrysler in plug-in hybrids and EVs.

Québec Economy Minister Pierre Fitzgibbon has commented that the province "has everything it takes to produce the cleanest battery in North America," including skilled labour, natural resources such as lithium and clean hydro power.

### **Tansim Project expands**

Meanwhile, Sayona has further expanded its lithium holdings in Québec, where it aims to develop a lithium hub based on its Authier Lithium Project together with the emerging Tansim Lithium Project and North American Lithium (the latter subject to a successful bid).

At Tansim, located 80 kilometres south-west of Authier, Sayona has expanded its project area with the addition of 11 new claims. Tansim now encompasses 191 mineral claims spanning 11,042 ha of prospective lithium acreage (refer map below).

Drilling conducted in 2019 resulted in an Exploration Target (refer note below) of between 5 million and 25 million tonnes, at an estimated grade of 1.2 – 1.3% Li<sub>2</sub>O (refer ASX release 19 November 2019).

Sayona plans further exploration work at Tansim, including reconnaissance sampling at the new acreage and Phase 2 drilling at the Viau-Dallaire prospect.

*Note: The potential quantity and grade of the Exploration Target is conceptual in nature and is therefore an approximation. There has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.*

This announcement has been authorised by Sayona's Board of Directors.

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### **About ICS**

Since 2014, ICS has been developing an improved process for the refining of lithium-rich minerals such as spodumene. Over this period, the process has been proven and its operations are currently being optimised at small pilot-plant scale.

The ICS Process is closed insofar as the chemicals required are internally recycled, essentially eliminating the need for their purchase, with the benign disposal of all by-product chemicals generated from their use. Scoping studies by a leading EPCM firm foreshadow that compared with sulfuric acid-based processes, the ICS Process offers the potential for lower capital costs and the halving of operating costs for the conversion of spodumene concentrates to lithium hydroxide monohydrate (LHM), plus game-changing environmental benefits.

For more information, please email [richard@hunwickconsultants.com.au](mailto:richard@hunwickconsultants.com.au)

### **About Sayona Mining**

Sayona Mining Limited is an emerging lithium miner (ASX:SYA), with projects in Québec, Canada and Western Australia. In Québec, Sayona is progressing a bid for the North American Lithium mine with the backing of a world-class support team, while advancing its flagship Authier Lithium Project and its nearby Tansim project.

For more information, please visit us at [www.sayonamining.com.au](http://www.sayonamining.com.au)

### **Brett Lynch**

Managing Director

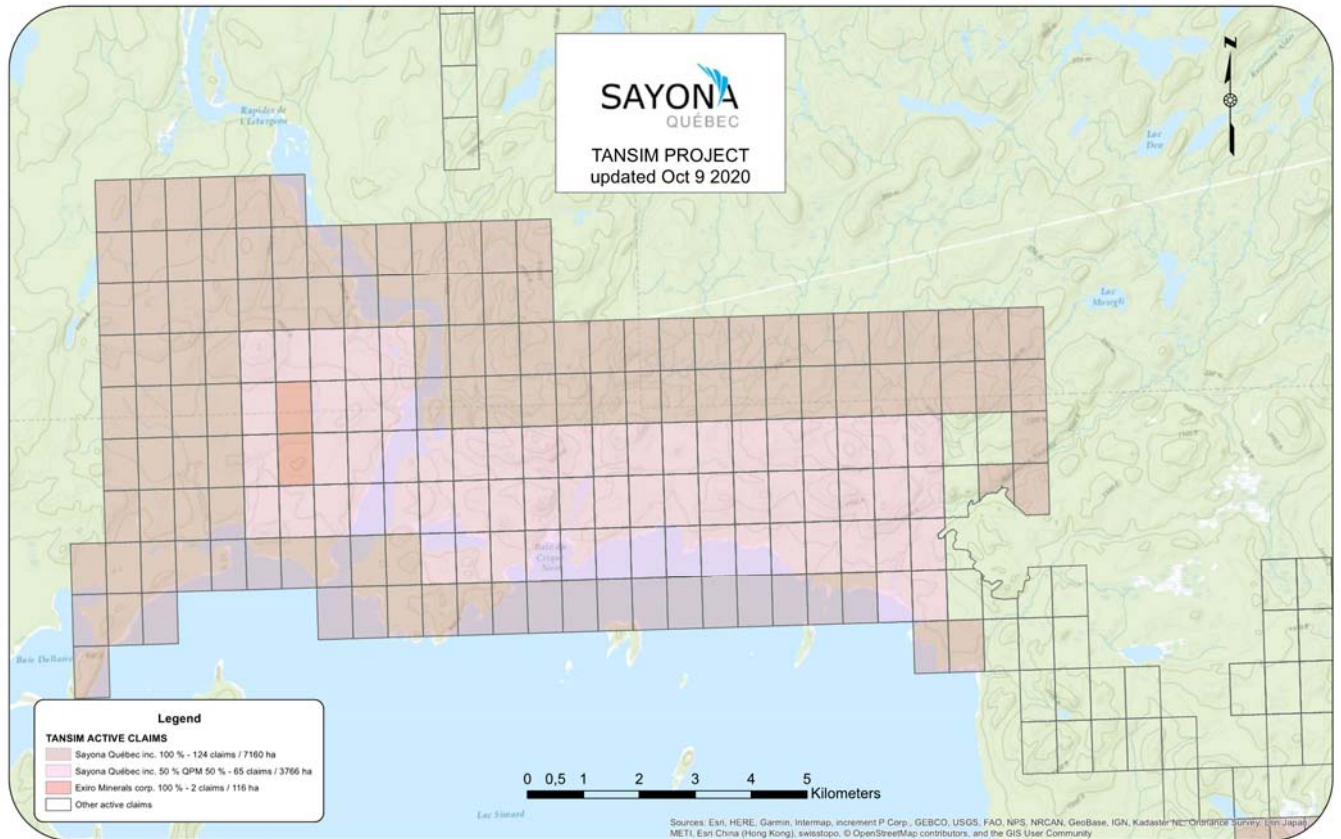
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*Tansim Project acreage as at 9 October 2020*

**COMPETENT PERSON STATEMENT**

The information in this report that relates to Exploration Results is based on information compiled by Dr Gustavo Delendatti, a member of the Australian Institute of Geoscientists. Dr Delendatti is an independent consultant, and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which it is undertaking to qualify as a Competent Person as defined in the JORC Code (2012 Edition) of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.”

Dr Delendatti was responsible for the design and conduct of this exploration drilling campaign, supervised the preparation of the technical information in this release and has relevant experience and competence of the subject matter. Dr Delendatti, as competent person for this announcement, has consented to the inclusion of the information in the form and context in which it appears herein.