

# Québec Silica Resources Corp. Preliminary Results Demonstrates Possibility of Producing High Quality Silica

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Lachute, July 13, 2022 - Québec Silica Resources Corp. (CSE: QTZ) ("Québec Silica" or the "Company") is pleased to announce preliminary results from Company's 100% owned Charlevoix Silica Project located near St. Urbain, Quebec, Canada. In a collaboration with the Institut National de la Recherche Scientifique (INRS), the petrophysical, granulochemical, and geometallurgical analysis performed to date indicate suitability for the production of quality quartz.

Dr. Marc Richer- LaFlèche of the INRS states:

As part of the research work carried out in the laboratory, the INRS team prepared 4 samples of quartzite weighing approximately 150 kg (bulks 1, 2, 3 and 4) in order to obtain the necessary material for sieving and subsequent granulochemical and petrographic studies. The main objective of these studies was to verify the optimal particle size fraction in order to release the maximum of mineral impurities present in the. The identification of the impurities (e.g. ilmenite, muscovite, zircon, monazite) will make it possible to choose the physical separation methods which will be used for the mineralurgical tests and for the selection of the equipment which will be used for the pilot plant.

The chemical analyses, measured on the different particle size fractions (<63 µm, 63 µm, 125 µm, 250 µm, 500 µm, 1000 µm, 2000 µm, 4000 µm, 8000 µm and 12500 µm), show a strong increase in the concentrations of Fe<sub>2</sub>O<sub>3</sub>, MnO, TiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub> and K<sub>2</sub>O in particle size fractions below 500 µm. The fractions below 125 µm show the highest concentrations of those elements which normally concentrate in the impurities (heavy minerals and muscovite). Similarly, SWIR-NIR reflection spectrometric analyzes (Terraspec) show a strong decrease in reflectance values due to the absorption of radiation by Fe, Mn and Ti oxides.

The conclusion of the study shows the possibility of producing high quality silica by eliminating certain mineral impurities. The main methods suggested for impurity removal are attrition, densitometric/hydraulic separation for heavy minerals (and part of muscovite), very high magnetic field magnetic separation for ilmenite and oxides secondary iron (such as hematite) and finally electrostatic separation to eliminate the rest of the muscovite. The strong Grenvillian metamorphism that affected the quartzites simplifies the process of muscovite (Al<sub>2</sub>O<sub>3</sub>, K<sub>2</sub>O) removal due to the recrystallization of muscovite into coarse crystals. In the same way, the metamorphism decreases the proportion of volatile compounds in the rocks which is favorable for the production of ferro-silicium and other uses.

"We are very pleased with the results, particularly the fact that we can purify our silica through mechanical means and without the use of chemical separation techniques. This is consistent with our environmentally-friendly vision."

- Raymond Wladichuk, CEO

## Exploration update

Line cutting throughout the Charlevoix Silica Project has been completed, and the INRS team are performing detailed geological and structural mapping and preparing drill targets for the fall geotechnical investigation. High resolution photogrammetric measurements and RTK mapping will be realized by INRS on the sampling sites and related quartzite outcrops.

The Company also plans on conducting a Lidar survey, a second photogrammetric drone mapping survey in

order to help the geological field mapping, and a second drone magnetic survey in the eastern portion of the Property in order to optimize the mapping of the quartzite formations. Geophysical electromagnetics (FDEM, VLF) will be done on many lines of the eastern part of the area in order to locate the quartzite masked by thin quaternary sediments.

About Quebec Silica Resources Corp.

Québec Silica is a mineral exploration company focused on acquiring and exploring mineral resource properties with an emphasis on the Charlevoix Silica Property located near St Urbain, Québec, Canada. Québec Silica's goal is to explore for, develop, and provide silica resources for the new green economy such as Silicon Lithium batteries, solar silicon, telecommunication and optics, and biomedical applications.

Additional information on Quebec Silica is available at [www.quebecsilica.com](http://www.quebecsilica.com).

On behalf of the Board of Directors,  
Québec Silica Resources Corp.  
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Raymond Wladichuk, P.Geo., (OGQ permit number: 02287), is the CEO of Québec Silica Resources Corp., and a Qualified Person for National Instrument 43-101 - Standards for Disclosure of Mineral Projects has reviewed and approved the scientific and technical information contained in the news release.

#### Forward-Looking Statements

This news release contains statements that constitute "forward-looking statements". Such forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause Quebec Silica's actual results, performance or achievements, or developments in the industry to differ materially from the anticipated results, performance or achievements expressed or implied by such forward-looking statements. Forward-looking statements are statements that are not historical facts and are generally, but not always, identified by the words "expects," "plans," "anticipates," "believes," "intends," "estimates," "projects," "potential" and similar expressions, or that events or conditions "will," "would," "may," "could" or "should" occur.

Although Quebec Silica believes the forward-looking information contained in this news release is reasonable based on information available on the date hereof, by their nature, forward-looking statements involve assumptions, known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements, or other future events, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements.

Examples of such assumptions, risks and uncertainties include, without limitation, assumptions, risks and uncertainties associated with general economic conditions; the Covid-19 pandemic; adverse industry events; future legislative and regulatory developments in the mining sector; the Company's ability to access sufficient capital from internal and external sources, and/or inability to access sufficient capital on favorable terms; mining industry and markets in Canada and generally; the ability of Quebec Silica to implement its business strategies; competition; and other assumptions, risks and uncertainties.

The forward-looking information contained in this news release represents the expectations of the Company as of the date of this news release and, accordingly, is subject to change after such date. Readers should not place undue importance on forward-looking information and should not rely upon this information as of any other date. While the Company may elect to, it does not undertake to update this information at any

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