

Company Announcement, August 31st, 2018

Inaugural Safeguards Inspection Brings Kvanefjeld Into International Non-Proliferation System to Enable Uranium Production and Sales

Highlights:

- A formal inspection of the Kvanefjeld site and associated facilities by representatives of the International Atomic Energy Agency (IAEA) was completed on August 28
 - IAEA inspectors were joined by representatives of the Danish Emergency Management Agency, the Government of Greenland and the Geological Survey of Denmark and Greenland
 - IAEA inspectors confirmed that the objective of their visit had been successfully achieved
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Commenting on the inspection, Managing Director Dr John Mair said:

"This is a very important milestone for the Kvanefjeld Project. We are very pleased to have had the opportunity to host the IAEA's inspectors this week. The Company is committed to ensuring that Greenland complies with all of its obligations under the terms of its safeguards agreement with the IAEA and it is very gratifying that the IAEA's inspectors were able to successfully achieve their objectives this week.

We were also pleased that representatives of the Danish Emergency Management Agency were able to join the IAEA in Narsaq for their visit. It is important that future uranium production at Kvanefjeld will be undertaken in strict compliance with international non-proliferation laws enacted by Greenland and Denmark to facilitate the development of Kvanefjeld."

Background

The Treaty on the Non-Proliferation of Nuclear Weapons, commonly known as the Non-Proliferation Treaty (NPT), is an international treaty with the objective, amongst others, of preventing the spread of nuclear weapons and weapons technology. Denmark is a signatory to the Nuclear Non-Proliferation Treaty (NPT).

The International Atomic Energy Agency (the IAEA) is the agency charged with the responsibility of ensuring that signatories to the NPT honour commitments not to use civil nuclear programmes for

nuclear-weapons purposes. The IAEA gives effect to this responsibility by entering Safeguards Agreements with NPT states.

Denmark has entered a Safeguards Agreement with the IAEA and has entered into a further complementary protocol (the Protocol) specifically in respect of Greenland. Under a Safeguards Agreement the IAEA has the “right and obligation” to ensure that appropriate safeguards are applied and in order to do this needs to carry out regular evaluations including physical inspections.

Pursuant to an invitation from the Government of Denmark issued on July 4, 2018, the IAEA conducted its first site inspection of the Company’s Kvanefjeld Project site and associated facilities on August 28, 2018. The objective of the visit was “to assure the absence of undeclared nuclear material and activities at Greenland Minerals’ exploration site and the nearby facilities”.

The IAEA inspectors completed a visual inspection of all project areas, utilised radiation detection and measurement devices and facilitated a discussion of reporting requirements under the terms of the Protocol.

The IAEA has 60 days to formally report to the Government of Denmark in respect of the inspection. The report will advise the Government of Denmark of the activities undertaken by its inspectors and will advise whether any questions or inconsistencies have arisen as a consequence of the inspection.

The Director General of the IAEA Yukiya Amano visited the Kvanefjeld Project in May 2017 along with Greenland’s Premier Kim Kielsen (company announcement, May 15th, 2017). This followed on from Greenland formalising its status as a signatory to several important international nuclear conventions in September 2016, at the 60th General Conference of the IAEA in Vienna (company announcement, September 29th, 2016).

Uranium will be produced as one of series a by-products of rare earth production at Kvanefjeld, at low incremental cost.

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ABOUT GREENLAND MINERALS LTD.

Greenland Minerals Ltd (ASX: GGG) is an exploration and development company focused on developing high-quality mineral projects in Greenland. The Company's flagship project is the Kvanefjeld Rare Earth Project (rare earth elements, uranium, zinc). A pre-feasibility study was finalised in 2012, and a comprehensive feasibility study was completed in 2015 and updated following pilot plant operations in 2016. The studies highlight the potential to develop Kvanefjeld as a long-life, low cost, and large-scale producer of rare earth elements; key enablers to the electrification of transport systems.

GML is working closely with major shareholder and strategic partner Shenghe Resources Holding Co Ltd to develop Kvanefjeld as a cornerstone of future rare earth supply. An exploitation (mining) license application for the initial development strategy has been undergoing review by the Greenland Government through the latter part of 2016 and through 2017.

In 2018, GML continues to undertake technical work programs with Shenghe Resources Holding Co Ltd that aim to improve the metallurgical performance, simplify the development strategy and infrastructure footprint in Greenland, enhance the cost-structure, and ensure that Kvanefjeld is aligned with downstream processing. In addition, the Company continues its focus on working closely with Greenland's regulatory bodies on the processing of the mining license application and maintaining regular stakeholder updates.

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Greenland Minerals Ltd will continue to advance the Kvanefjeld project in a manner that is in accord with both Greenlandic Government and local community expectations and looks forward to being part of continued stakeholder discussions on the social and economic benefits associated with the development of the Kvanefjeld Project.

Competent Person Statement – Mineral Resources Ore Reserves and Metallurgy

The information in this report that relates to Mineral Resources is based on information compiled by Mr Robin Simpson, a Competent Person who is a Member of the Australian Institute of Geoscientists. Mr Simpson is employed by SRK Consulting (UK) Ltd ("SRK") and was engaged by Greenland Minerals Ltd on the basis of SRK's normal professional daily rates. SRK has no beneficial interest in the outcome of the technical assessment being capable of affecting its independence. Mr Simpson has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Robin Simpson consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in the statement that relates to the Ore Reserves Estimate is based on work completed or accepted by Mr Damien Krebs of Greenland Minerals Ltd and Mr Scott McEwing of SRK Consulting (Australasia) Pty Ltd. The information in this report that relates to metallurgy is based on information compiled by Damien Krebs.

Damien Krebs is a Member of The Australasian Institute of Mining and Metallurgy and has sufficient experience that is relevant to the type of metallurgy and scale of project under consideration, and to the activity he is undertaking, to qualify as Competent Persons in terms of The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code, 2012 edition). The Competent Persons consent to the inclusion of such information in this report in the form and context in which it appears.

Scott McEwing is a Fellow and Chartered Professional of The Australasian Institute of Mining and Metallurgy and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking, to qualify as Competent Persons in terms of The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code, 2012 edition). The Competent Persons consent to the inclusion of such information in this report in the form and context in which it appears.

The mineral resource estimate for the Kvanefjeld Project was updated and released in a Company Announcement on February 12th, 2015. The ore reserve estimate was released in a Company Announcement on June 3rd, 2015. There have been no material changes to the resource estimate, or ore reserve since the release of these announcements.