

Company Announcement, October 22nd, 2019

Path to Finalise Kvanefjeld Environmental Impact Assessment

- **Environmental Impact Assessment (EIA) review completed by Greenland's Environmental Agency for Mineral Resource Activities (EAMRA) and their advisors**
 - **Significant progress towards finalising the EIA with supplementary information requested in respect of a small number of outstanding issues**
 - **EAMRA has provided a structured approach to assist in finalising outstanding issues**
 - **Company anticipates additional work can be completed within a few months**
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Managing Director Dr John Mair commented:

"Kvanefjeld is a significant project for Greenland and is therefore of considerable public interest. As such, the EIA review process has been thorough and detailed in order to ensure that the EIA provides confidence to Greenland stakeholders and regulators. We are pleased that, after several years of working closely with the Greenland regulators and their advisers, the range of outstanding issues has been significantly narrowed and that clear guidance has been provided to close out the outstanding items.

We welcome the increasingly structured approach to the review process which has more effectively aligned Greenland's approach with how reviews of this nature are undertaken in other mining jurisdictions. This provides us with confidence that remaining issues will be resolved early in 2020 and a clear path to public consultation will be defined as we move towards completing the licensing process."

Greenland Minerals Ltd ('GML' or 'the Company') is pleased to report on positive developments regarding the review of the EIA for its Kvanefjeld rare earth project in southern Greenland.

In June 2019, the Company submitted a revised EIA to EAMRA for review in accordance with Greenlandic legislation and guidelines. The updated EIA was the culmination of a programme of work which began with stakeholder consultations and workshops with government agencies in 2013. The EIA has been the subject of considerable revision at the request of EAMRA and its principal external advisers, the Danish Centre for the Environment (DCE).

The Company has now received structured comments on the EIA from EAMRA which in our opinion have outlined an approach to finalising the EIA and thereby moving to the next phase of the licensing process: formal public consultations.

EAMRA has separated outstanding environmental issues into two categories: Type 1; those where EAMRA require more information before the EIA can be accepted for public consultation; and Type 2; which can be answered after the process of formal public consultation has been completed.

This approach will bring the EIA approval process closer to permitting practices in other countries where issues relating to final design and to engineering and construction, which are not salient to significant environmental risk, are dealt with in the final approvals process.

The Type 1 issues have been addressed in previous EIA work but have been assessed by EAMRA as being capable of further refinement. In anticipation of this, the Company has engaged external consultants who will manage and complete the additional work. It is anticipated that the additional work programmes can be completed in a three-month period.

Most of the additional work is related to tailings storage facilities: more detailed modelling of scenarios for embankment failure; more detailed review of seismic conditions to validate long term stability of tailings structures; and a request to investigate the viability of an alternative “dry closure” option for the planned tailings facility.

In June, the International Council on Mining and Metals (ICMM), the United Nations Environment Programme (UNEP) and the Principles for Responsible Investment (PRI) co-convened a global tailings review to establish global best practices on tailings storage facilities. It is anticipated that the review will be completed by the end of 2019. The Company acknowledges that it is appropriate for its plans for tailings to be tested against the highest standards and has commenced a review of the design and operations of tailings management at Kvanefjeld to ensure compliance with updated standards.

Type 2 issues will be incorporated in ongoing work around flowsheet design and continuous technical improvement as well as in optimisation studies for the mine and processing facilities.

Further meetings are planned with EAMRA and the DCE in order to finalise the EIA in a timely manner. The Company looks forward to providing updates as additional studies are completed and a schedule is established for public consultation.

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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 was reviewed by the Greenland Government through 2016 -17 and was updated in 2018 following additional supporting studies.

In 2017-18, GML undertook technical work programs with Shenghe Resources Holding Co Ltd that improved the metallurgical performance and simplified the development strategy and infrastructure footprint in Greenland. This will enhance the project 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.