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November 7, 2017

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Mr. Richard Dwyer
Licence Administrator
P.O. Box 119
Gjoa Haven, Nunavut
X0B 1J0

RE: 2AM-MRY1325 Mine Site Crusher Pad Sedimentation Pond Expansion Modification Request

Mr. Dwyer,

In response to the Nunavut Water Board's (NWB) request, this letter provides the Qikiqtani Inuit Association's (QIA) comments on the above referenced Baffinland Iron Mines Corporation (Baffinland) modification request pursuant to Water Licence 2AM-MRY1325¹ (Licence).

To access Inuit Owned Lands, Baffinland signed QIA's Commercial Lease No. Q13C301² (Lease) for the Mary River mine in 2013. QIA's comments attached to this letter are focused on items as they relate to the Lease and QIA's role as the Designated Inuit Organization for the Qikiqtani region and its duties to administer Inuit Owned Lands.

QIA would like to thank the NWB for considering these comments.

Sincerely,

SWB

Stephen Williamson Bathory
Director, Major Projects

¹ Nunavut Water Board (2015) Water Licence No.: 2AM-MRY1325 Amendment no. 1. July 31, 2015.

² QIA and Baffinland (2013) Commercial Lease No.: Q13C301. September 6, 2013.



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⁴ Hatch (2017) Construction Summary Report: Mine Site Waste Rock Sedimentation Pond and Drainage Ditch. January 24, 2017.



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ID	Lease Condition	Licence Condition	Topic	Comment	Proposed Resolution
					<p>Association Guidelines⁵ and Technical Bulletins⁶ for best practices for earthwork engineering. These are generally consistent with standard geotechnical engineering design principals for earthwork design, construction and operation.</p> <p>The following list are the outstanding items that should be the final design report:</p> <ol style="list-style-type: none"> A final design report that is signed and stamped by an engineer that includes all required analysis and for-construction documentation, including complete specifications, and drawings. The design brief as provided is not a final design report and is not signed and stamped by an engineer. Further the design brief does not include all required specifications necessary for construction. Relevant background information, including the data from geotechnical investigations, the results of programs to characterize soil, rock, groundwater, ground ice, and ground temperature conditions to the depth expected to be affected by the proposed facilities, beneath the footprint of all containment and runoff control structures, as deemed adequate by the Professional Engineer responsible for the design. This is required to ensure design assumptions such as the use of frozen ground to ensure the facility is adequately designed. Quantities and the physical and geochemical characteristics of materials required for Construction. This is required to ensure the proper materials are used as specified, to eliminate the possibility of

⁵ Canadian Dam Association (2013) Dam Safety Guidelines 2007 (2013 Edition).

⁶ Canadian Dam Association (2007). Canadian Dam Association Technical Bulletins.

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					<p>acid rock drainage occurring which will give rise to potential environmental impacts.</p> <p>d. Design drawings and specifications of Engineered Structures, stamped by a Professional Engineer to ensure the facility is constructed as designed. The specifications included in the design brief are deficient on standard construction items typically provided in for-construction documentation.</p> <p>e. Stability analyses to reduce the risk of failure of the structure. No stability analysis is provided in the design brief to substantiate design will perform to acceptable level of standard.</p> <p>f. Construction considerations, including timing, sequencing, and a schedule to ensure the appropriate steps and considerations are considered and can be analyzed post construction.</p> <p>g. Operations and maintenance requirements as the facility is anticipated to be required to operate in a specific way to avoid failure.</p> <p>h. Detailed instrumentation and monitoring plans, including but not limited to sampling locations, parameters measured, and frequencies of sampling to be carried out to ensure the facility is operated in a specific way to avoid failure.</p> <p>i. A Construction Quality Control Plan stamped by a Professional Engineer, a component of which includes a plan for a Professional Engineer to supervise and field check construction activities to ensure the design is achieved and maintained.</p>
4	Article 9.2, item b)	Part C, item 1.	Security	Baffinland did not provide an estimate for changes to security based on this modification request.	As per Part C, item 1 of the Licence, Baffinland is to maintain security that is in accordance with the applicable regulations. It is required of Baffinland to provide an evaluation for security associated with this work and receive approval by QIA before work on this modification may be commenced. Once security is approved and received by QIA, total security may be reconciled in the 2018 Annual Security Review.