

'የP∿ርԺ Δ⊅Δ° Ьጋ⊁⊱ኄ∩Ր℉ Qikiqtani Inuit Association

July 16, 2018

ለ≻'በናቴጋ' ຼຼຼວ⊆ ື ታ ♭ ዕታ ℃ Serving the communities of

> △<∧⊲^ҁ≺^ь Arctic Bay

ቦ°∿\∆^c Cape Dorset

Ь℃%ጋቪ∧ቴ Clyde River

ベトノム^C)[%] Grise Fiord

くっくとり Hall Beach

> ∆لےر⊸ Igloolik

کدهک^c Igaluit

ριΓ⊃^ς Kimmirut

く[°] σ[%])[%] Pangnirtung

Fond Inlet

^γPρ%C^γ≺Δ^γ

% Resolute Bay

トートレス% Sanikiluag Assol Kubeisinova Technical Advisor, Nunavut Water Board P.O. Box 119 Gjoa Haven, Nunavut, X0B 1J0

Re: Mary River Project – Waste Rock Facility Sedimentation Pond Modification Request No. 8. Water Licence 2AM-MRY1325

Dear Assol Kubeisinova,

This letter presents the Qikiqtani Inuit Association's (QIA) response to the Nunavut Water Board's (NWB) request¹ for interested parties to provide comments regarding Baffinland Iron Mines Corporation's (Baffinland) Modification Request No. 8 – Waste Rock Facility Sedimentation Pond (WRF Pond) submitted by Baffinland on June 26, 2018². The NWB requested that comments be submitted by July 16, 2018.

As the Designated Inuit Organization for the Qikiqtani region, QIA and Baffinland signed the Commercial Lease No. Q13C301³ (the Lease) for the Mary River mine in 2013. QIA's requests presented in **Table 1** herein are focused on items as they relate to the Lease. In addition, the requests are on concerns and uncertainties how Modification No. 8 will mitigate environmental risks identified by the WRF Pond issues that culminated in non-compliant discharges⁴, on Inuit Owned Land less than a year ago.

QIA is happy to discuss this letter and the Lease obligations with you and your staff at a time that is mutually agreeable.

Sincerely,

Fai Ndofor

Regulatory Manager

¹ NWB (2018). Email titled 180627 2AM-MRY1325 Distribution Review & Comment Request Modification Request No. 8 Waste Rock Facility Pond Qikiqtani Region-OAAE. Sent by Ida Porter on June 27, 2018.

² Baffinland (2018). RE: Mary River Project – Mine Site Crusher Pad Expansion Modification Request No. 1 Water Licence 2AM-MRY1325. May 29, 2018.

³ QIA and BIMC (2013) Commercial Lease No.: Q13C301. September 6, 2013.

⁴ INAC (2017) 170509 Inspector's Direction 2AM-MRY1325. September 5, 2017.



"የР∿ርԺ Δ⊅Δ° Ьጋን≻৬∩ՐՆՐ Qikiqtani Inuit Association

Table 1: QIA comments Modification to Waste Rock Facility Sedimentation Pond

ለ≻^ເበናቴጋ^c ዾዺ一[°] ታ^b Þժታឹ Serving the communities of

> △ベヘロ^۲ペト Arctic Bay

P°∿\∆^c Cape Dorset

Ь[∿]Ր%ጋቪ∧ Clyde River

△D ∠∆^C)% Grise Fiord

くっくとり Hall Beach

> ∆لےرہ Igloolik

کده'ک Igaluit

PLF 2c Kimmirut

<°σ°⁵° Pangnirtung

Pond Inlet

የ**PP%C**ና**≺**ፈ% Qikiqtarjuaq

% Resolute Bay

トーβー Δ% Sanikiluaq

ID	QIA Request
1	Baffinland may not construct the WRF Pond without QIA approved security in place. The joint assessment of security is currently ongoing.
2	Baffinland to follow the Lease As Built Operations Guide, further detailing expectations of Article 6.4 item c) of the Lease when preparing the As Built Report/Construction Summary Report for the WRF Pond. This does not limit Baffinland's requirements to Part D, item 17 of the Water Licence.
3	Baffinland to provide information that explains how this modification has incorporated uncertainties with permafrost depth. The frozen ground assumption used for the original WRF Pond design, which has been the subject of a spill ⁴ where the lack of depth of permafrost identified in the Construction Summary Report ⁵ has not been ruled out as the cause of the spill.
4	Baffinland to provide the outcomes of the detailed inspection discussed in Section 2.0 of the Civil Design Report and any required repair or remediation carried out as part of the construction summary report.
5	Baffinland to provide the construction specifications of the WRF Pond.
6	Baffinland to provide a site specific geotechnical investigation. QIA does not consider using boreholes from 2 km away to be standard practice for structures that maintain and withhold water.
7	Baffinland to provide the maximum discharge rate out of the WRF Pond allowed to ensure stability. QIA's concern is that the maximum rapid draw down rate in the WRF Pond was assessed to be the treatment rate of the Water Treatment Plant. QIA is concerned that this rate or a higher rate, in the case that the water does not need to be treated could affect the stability of the Waste Rock Sedimentation Pond.
8	Baffinland to provide an Operations, Maintenance, and Surveillance (OMS) Manual/Plan based on requirements of Section 3 of the Canadian Dam Association (CDA) Dam Safety Guidelines ⁶ . The OMS should provide detailed instrumentation and monitoring plans, including but not limited to sampling locations, parameters measured, and frequencies of sampling to be carried out.
9	Prior to construction, Baffinland to provide construction QA/QC specifications and geomembrane liner installation specifications required to ensure the construction is completed according to the design intent and to an acceptable standard as detailed in Section 6.9 of the CDA Dam Safety Guidelines ⁶ . Specifications are to be signed and

⁵ Hatch (2017) Construction Summary Report: Mine Site Waste Rock Sedimentation Pond and Drainage Ditch. January 24, 2017.

⁶ Canadian Dam Association (2013) Dam Safety Guidelines 2007 (2013 Edition).



"የΡ∿ርσ ΔοΔ° ЬϽϧϧϧ∩ϳϧ· Qikiqtani Inuit Association

ハトハハキン・ ユーニート Ddo し Serving the communities of

> △<∧⊲^ч√⊌ Arctic Bay

ቦ°∿\∆^c Cape Dorset

6℃%つじへ。 Clyde River

△D ∠∆^C)% Grise Fiord

くっくとり Hall Beach

> ∆لےرہ Igloolik

کدہ∆^c Iqaluit

Presc Kimmirut

く[°] σ[%])[%] Pangnirtung

Fond Inlet

PP%C5イ**d**% Qikiqtarjuaq

% Resolute Bay

۲۰۹۵ کو ۹ Sanikiluaq

ID	QIA Request
	stamped by a Professional Engineer. The results of said QA/QC monitoring and installation data are to be provided in the construction summary report.
10	Baffinland to provide volume balance to demonstrate that the WRF Pond has sufficient storage capacity and contingency volume.
11	Baffinland to provide the "Design Criteria for 2018 to 2019 Waste Rock Management Pile" and "A hydrological Study to Support Pond Design Calculations at the Mary River Mine, Baffin Island, Nunavut8 Golder reports from 2018.
12	Baffinland to explain how the Mary River climate station data recommendation will be used to verify the rainfall intensity-duration-frequency statistics in relevant management and monitoring plans.

⁷ Golder (2018). Design Criteria for 2018 to 2019 Waste Rock Management Pile, Mary River Project. DOC025_Rev A. April 13, 2018.

⁸ Golder (2018). A hydrological Study to Support Pond Design Calculations at the Mary River Maine, Baffin Island, Nunavut Doc015-1665556-Rev0. February 6, 2018.