

NIRB File No.: 08MN053

NWB File No.: 2AM-MRY1325 QIA File No.: LUA-2008-008 DFO File No.: 2008 MR

November 27, 2018

Megan Lord-Hoyle Director, Sustainable Development Baffinland Iron Mines Corporation 2275 Upper Middle Road East Oakville, ON L6H 0C3

Sent via email: megan.lord-hoyle@baffinland.com

Re: <u>Information Requests received from Parties regarding Baffinland Iron Mines Corp.'s</u>
<u>"Phase 2 Development" Project Proposal</u>

Dear Megan Lord-Hoyle:

On October 12, 2018 the Nunavut Impact Review Board (NIRB or Board) initiated the public technical review of the revised Final Environmental Impact Statement (FEIS) Addendum submitted by Baffinland Iron Mines Corporation (Baffinland, or Proponent) for the "Phase 2 Development" proposal by requesting that interested parties submit Information Requests (IR) to facilitate their technical review of the FEIS Addendum.

On or before November 23, 2018¹ the NIRB received IR submissions from the following parties:

- Qikiqtani Inuit Association 95 IRs
- Government of Nunavut 86 IRs
- Government of Canada
 - o Crown-Indigenous Relations and Northern Affairs Canada 17 IRs
 - Environment and Climate Change Canada 24 IRs
 - Fisheries and Oceans Canada 6 IRs
 - Health Canada 8 IRs
 - Natural Resources Canada 4 IRs
 - o Parks Canada Agency 8 IRs
 - Transport Canada 19 IRs
- Oceans North 5 IRs
- World Wildlife Fund (WWF) 10 IRs

¹ On November 5, 2018 the NIRB extended the deadline for submission of IRs from November 13, 2018 to November 23, 2018 at the request of the Qikiqtani Inuit Association.

All documentation associated with the Phase 2 Development proposal, including IR submissions, can be accessed via the NIRB's public registry: www.nirb.ca/project/123910.

The NIRB has completed its review of the IRs received and hereby requests that Baffinland respond to those IRs which have been determined to be relevant to the Proponent, to the current stage of the Review process, and necessary to facilitate parties' technical review of the FEIS Addendum and subsequent development of technical review comments. The NIRB also notes that certain IRs contained within parties' submissions appear to be outside the scope of information required for this phase of the Review and may therefore be more appropriately addressed through technical review comment submissions. While it is the Board's expectation that the Proponent will review all IRs, at this time the NIRB has provided a list of specific requests (see Appendix A) for which the Proponent is either expected to provide a partial response, or is expected to address within its response to IRs (IR Response Package).

The NIRB notes that several parties identified issues with lack of detail in the FEIS Addendum, and timelines of availability for additional baseline collection being delayed until the component design is considered. Where the information/models requested cannot be provided without additional baseline, the Proponent must clearly identify when this information will be forthcoming, or which alternate method the Proponent will use to address the issue or concern.

When preparing its IR Response package, the NIRB recommends that the Proponent consult with parties as necessary to ensure the information to be provided meets the expectations of reviewers moving forward. Furthermore, where multiple IRs have outlined the same or similar information requirements, the Proponent is advised to provide one response that will adequately address these requests, avoiding unnecessary duplication.

The Board respectfully requests that Baffinland review all submissions as available via the NIRB's online public registry and supply the NIRB with an indication of an anticipated date for submission of its IR Response Package, on or before **November 30, 2018**. If you have any questions regarding the NIRB's Review of the "Phase 2 Development" proposal, or the monitoring of the Mary River Project please contact Solomon Amuno, Technical Advisor II, at samuno@nirb.ca.

Sincerely,

Inna allo

Tara Arko

Director, Technical Services Nunavut Impact Review Board

cc: Mary River Distribution List

Grant Goddard, Baffinland Iron Mine Corporation Lou Kamermans, Baffinland Iron Mine Corporation

Karén Kharatyan, Nunavut Water Board Assol Kubeisinova, Nunavut Water Board

Attachment: Appendix A: Information Requests Identified by the NIRB as Requiring a Response

APPENDIX A: INFORMATION REQUESTS IDENTIFIED BY THE NIRB AS REQUIRING A RESPONSE

In the table below the NIRB has attempted to identify those Information Requests (IRs) which require response as part of this stage of the Review for the Phase 2 Development project proposal.

While the Proponent will not be explicitly required to address some of the following items within its IR Response Package, the NIRB strongly recommends that Baffinland thoroughly review each item and make its own determination regarding the need for or its ability to, provide an appropriate response. Where items are not addressed in the IR response package, it is expected that the issue is carried forward and addressed through the technical review period.

IR#	Issue	NIRB direction
	Qikiqtani Inuit Association (QIA)	
QIA-IR#1,	-Baffinland is requested to provide further detail	IR limited to Baffinland
2, &3	on anticipated monitoring to be undertaken and	providing additional
	mitigation measures to be implemented for the	clarification on monitoring
	three-year combined Railway construction and	and mitigation measures to
	Tote Road operations period.	be implemented for North
		Railway. Discussion on the
	-Baffinland is requested to provide further detail	adequacy of the assessment
	on anticipated monitoring to be undertaken and	would be further
	mitigation measures to be implemented for the	investigated during the
	three-year combined North Railway	technical review period.
	construction/Tote Road operations period to	
	protect caribou calving if occurring in the	
	Project area.	
	-Baffinland is requested to provide further detail	
	on anticipated monitoring to be undertaken and	
	mitigation measures to be implemented for the	
	first 5 years of combined North Railway and	
	Tote Road operations.	
QIA-IR#5	Baffinland to provide an assessment of the	IR is limited to Baffinland
	potential impacts to avian species, particularly	providing additional
	species at risk, resulting from the proposed wind	clarification on the topic
	turbines. This is to include measures that will be	particularly with reference
	taken to avoid or lessen potential effects and	to impacts from wind
	monitoring measures.	turbines.

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QIA IR#8	It is requested that the Proponent: a. Confirm whether all ancillary facilities and activities locations are finalized and located within the PDA and if so provide further details on their location and required physical works and activities at these locations. b. Provide a detailed assessment of potential impacts to Cultural Heritage resources and Inuit land and resource use from all ancillary facilities and activities associated with the project. c. Identify all commitments to engaging Inuit in final siting and management planning and monitoring at any yet to be determined ancillary facilities and activity locations, and how IQ will be used to inform final siting decisions.	a. IR limited to Baffinland providing additional clarification on the topic b. Defer to technical review period c. Defer to technical review period
QIA-IR#9	It is requested that the Proponent work with QIA	a. IR limited to Baffinland
	and the affected Inuit communities to address	providing additional
	gaps in the assessment of Culture, Resources,	clarification on the topic
	and Land Use by:	b. Defer to technical review
	a. Include consideration of the potential for	c. Defer to technical review
	psycho-social and stigma impacts alienating	
	Inuit use within the PDA and Local Study Area	
	b. Providing more information on return per unit	
	of harvesting effort by Inuit and how this has	
	changed over time since major development	
	activities started on Mary River Mine	
	c. Re-assessment of effects on Inuit land and	
	resource use to include identification of	
	preferred Inuit future use and potential long-	
OIA ID#10	term effects of the Project on those uses	D-66, 1-1
QIA-IR#10	It is requested that the Proponent provide more information on the assessment of effects on	Baffinland is requested to
	vegetation, including:	provide the data currently available on the subject, but
	a. Identification of IQ based monitoring	the determination of
	indicators and thresholds	adequacy of data will be
	b. Identification of culturally valued plant	further assessed during the
	species and communities of importance	technical review process.
	c. Provision of any data the Proponent has	Direction for further
	gathered related to willingness of Inuit to use	baseline collection and field
	vegetation in the PDA/LSA	studies would be determined
	d. Provision of evidence of the integration of IQ	at the end of the technical
	in the selection of sampling locations	review process.
	e. Results of any TEK/IQ field studies	
	f. Collection and meaningful consideration of IQ	
	related to natural revegetation/regeneration	

QIA-IR#11	It is requested that the Proponent provide more detail on how IQ was integrated in every step of the assessment conducted in the development of the FEIS Addendum. This should include some form of tabular description of how, specifically, IQ informed each step of the assessment methodology outlined in Section 9 of the FEIS Addendum.	Baffinland is requested to provide additional clarification on the subject, but the determination of IQ adequacy will be further assessed during the technical review process.
QIA-IR#12	Baffinland acknowledges additional community engagement will be necessary to fully satisfy public consultation requirements on the Phase 2 project proposal. When is this consultation scheduled to occur, and how will the results of this and additional data collection (e.g., on Inuit land and marine use) be integrated into a reassessment of effects from what is currently described in the FEIS Addendum?	IR limited to Baffinland providing additional clarification on its public consultation strategy for Phase 2.
QIA-IR#21	Please provide more information on what caribou crossings will look like, where they will be located, and provide supporting evidence for assertions that the railway will not prove a substantial barrier to caribou movement.	Baffinland is requested to provide additional clarification on the topic but the adequacy of the current information as presented in the FEIS Addendum is expected to be assessed through the technical review period.
QIA-IR#23	Are the wind turbines discussed at several places in the FEIS Addendum part of the scope of the proposed Project or outside of it? If they are part of the scope of the Project, provide further information on how IQ has been integrated into the siting process for the wind turbines.	IR limited to providing additional clarification on the topic.
QIA-IR#24	What does IQ have to say about the relative abundance of carnivore populations?	IR limited to Baffinland providing additional clarification on the topic
QIA-IR#25	How was IQ integrated or used to determine VEC's?	IR limited to Baffinland providing additional clarification on the topic
QIA-IR#26	How was IQ used to inform ice conditions assessment including open water timing?	IR limited to Baffinland providing additional clarification on the topic
QIA-IR#27	How was IQ used to assess the impacts of noise (from shipping and aircraft overflights) and traffic on marine mammals?	IR limited to Baffinland providing additional clarification on the topic

QIA-IR#32	QIA requests that the Proponent clarify how many wind turbines it proposes to install.	IR limited to Baffinland providing additional clarification on the topic.
QIA-IR#34	When and where will the airstrip at Milne be constructed? A map that shows the proposed airstrip location at Milne should be provided.	This IR limited to Baffinland providing additional clarification on the topic and providing a map showing airstrip location at Milne Inlet.
QIA-IR#35	Provide a description of the closure and reclamation approach for the northern rail components as well as, any adjustments completed to the Tote Road that are Phase 2 specific. Additionally, for each component, identify the residual landform and aesthetic condition that will remain at closure.	IR limited to Baffinland providing additional clarification on the topic.
QIA-IR#39	Provide the exact time for updates to management, mitigation and management plan, as this is currently uncertain.	Baffinland requested to provide additional clarification on this topic noting timing and schedules to update mitigation and management plans.
QIA-IR#42	a. When will the final design of the rail embankment and associated geotechnical/thermal analysis be completed? b. Will thermal modelling be completed for each bridge abutment and major water crossing?	IR limited to Baffinland providing additional clarification around timing to finalize design and complete modeling.
QIA-IR#43	Describe the adaptive management program that will be applied to the northern rail to address settlement concerns for the northern rail.	This part of the requests is limited to Baffinland providing additional clarification on the topic.
QIA-IR#44	Provide on a map of the locations of the borrows identified in Table 2.3.	IR limited to Baffinland providing mapping information.
QIA-IR#48	Describe why pit water quality and waste rock drainage are not considered in the effects assessment for water quality.	This point is limited to Baffinland providing additional clarification on the topic.
QIA-IR#52	Provide a summary of proposed SNP locations associated with Phase 2 infrastructure.	IR limited to Baffinland providing additional clarification on the topic.
QIA-IR#53	What is the maximum quantity of ore that would be trucked along the Tote Road in a given year?	IR limited to Baffinland providing additional clarification on the topic.

QIA-IR#54	Clarify the number and location of landfill and landfarms that are currently approved and sought as part of the Phase 2 Proposal.	IR limited to Baffinland providing additional clarification on the topic.
QIA-IR#55	If an access road or haul road is not constructed to the design criteria presented in Appendix D and/or G, will the road be used in operation?	IR limited to Baffinland providing additional clarification on the topic.
QIA-IR#56	QIA requests that the Proponent clarify terminology used to describe flights and trips.	IR limited to Baffinland providing additional clarification on the terminology.
QIA-IR#57	QIA request that the Proponent clarify where the Tote Road Earthworks Execution Plan (TREEP; Golder 2017) is available.	IR limited to Baffinland providing additional clarification on where to locate the referenced plan.
QIA-IR#58	QIA requests that the Proponent clarify whether modelling dust inputs to Phillips Creek from the Milne Port area considered dust inputs from the tote road and railway construction upstream and, if so, where in the EIS?	This part of the IR is limited to Baffinland providing additional clarification on the topic and where to locate modeling results.
QIA-IR#64	QIA requests clarification as to whether all Project vessels are required to reduce speed to a maximum of 9 knots beginning at the entrance to Pond Inlet through Eclipse Sound and Milne Inlet.	IR limited to Baffinland providing additional clarification on the topic.
QIA-IR#65	QIA requests clarification on autumn shoulder season shipping dates and mitigation of impacts on Inuit travel.	IR limited to Baffinland providing additional clarification on the topic.
QIA-IR#66	QIA seeks information on the relative availability of ore carriers of different sizes and ice classes for charter.	IR limited to Baffinland providing additional clarification on the topic.
QIA-IR#67	QIA requests clarification as to the status of the freight dock that was to be constructed in 2018.	IR limited to Baffinland providing additional clarification on the topic.
QIA-IR#69	QIA requests that the Proponent clarify where fish salvage operations related to construction of Ore Dock 2 are described or provide details on how these operations will be conducted.	IR limited to Baffinland providing additional clarification on the topic.
QIA-IR#77	QIA requests clarification as to why shipping interactions with seabirds are scored as a Subject of Note and not a Key Interaction.	IR limited to Baffinland providing additional clarification on the topic.
QIA-IR#78	QIA requests clarification as to why marine mammals were not included in the sustainability analysis of the Phase 2 Proposal.	IR is limited to Baffinland providing additional clarification on the topic.

OIA ID#00	OIA magazite that the Duamanant clarify where	IR limited to Baffinland
QIA-IR#80	QIA requests that the Proponent clarify where	
	bearded seal, one of the Key Indicators for the	providing additional
	Marine Mammal VEC, has been assessed, or if	clarification on the topic.
	it has not, provide information to support	
	exclusion.	
QIA-IR#81	QIA requests additional information and clarity	IR limited to Baffinland
	on the marine mammal effects assessment for	providing additional
	Atlantic walrus.	clarification on the topic.
QIA-IR#86	a. Breakdown of Mandatory vs On-the-job	IR limited to Baffinland
	(advancement) training delivered to Inuit and	providing additional
	Non-Inuit in hours by year.	clarification on the topic.
	b. New Inuit hires by year, age and educational	_
	attainment. This helps understand the number of	
	Inuit who are accepting the opportunity cost of	
	not finishing secondary school.	
	c. The number of apprenticeships offered to	
	Inuit and Non-Inuit; number of successful vs	
	attempted Trades Entrance Exams; instances of	
	level advancement within an apprenticeship;	
	number of Red Seals earned.	
	d. Additional Inuit employment hours that	
	= 7	
	Baffinland expects to generate from its current	
	Apprenticeship Program and HEO Training (Q-	
	STEP).	
	e. Explanation of how Baffinland confirms	
	"Inuit Ethnicity" if not through NTI number.	
	f. How exactly Baffinland will adapt training	
	programs to account for the "small shift in	
	employee level skill requirements"	
	g. Identify the precise training programs that	
	will upgrade employees' skill levels from D to C	
	to B Positions.	
	h. Additional details on Inuit promotions, such	
	as lateral vs skill level advancement.	
	i. Additional details on Inuit departures,	
	including rehires and those ineligible for rehire.	
	j. Provide career paths for each department that	
	operates in Nunavut, and example career path	
	development plans.	
	r r	
	development plans.	

QIA-IR# 87	Provide additional details on employment	IR limited to Baffinland
	opportunities planned for Phase 2.	providing additional
	a. Additional details on Inuit departures,	clarification on the topic.
	including rehires and	
	those ineligible for rehire.	
	b. Provide career paths for each department that	
	operates in Nunavut, and example career path	
	development plans.	
	c. A list of current and anticipated position titles	
	in all phases by Skill level and educational	
	requirements should be added to Appendix D.	
	d. An analysis or at least discussion about how	
	Baffinland will consider skill equivalencies for	
	Inuit who do not meet education	
	requirements.	
	e. Adjust Figure 4.4 to include Inuit who are 18-	
	24.	
	f. Expand analysis of the labour market to	
	consider movement of Inuit into the labour force	
	over the course of Phase 2.	
	g. Provide a list of positions for which English	
	fluency is not required.	
QIA-IR# 88	How and to what extent did alternative options	IR limited to Baffinland
	either positively or negatively (adversely)	providing additional
	impact the opportunities available to Inuit and	clarification on the topic.
	Inuit Firms?	
QIA-IR# 89	Can Baffinland expand upon its engagement	IR limited to Baffinland
	efforts with Inuit Firms regarding the	providing additional
	opportunities of Phase 2?	clarification on the topic.
QIA-IR# 90	Can Baffinland expand upon how it intends to	IR limited to Baffinland
	improve its engagement efforts with Inuit and	providing additional
	Inuit Firms regarding the opportunities of Phase	clarification on the topic.
	2?	
QIA-IR# 91	How many new Phase 2 contracts have already	IR limited to Baffinland
	been awarded, and to whom?	providing additional
		clarification on the topic
QIA-IR# 92	What is the value of new Phase 2 contracts that	IR limited to Baffinland
	have already been awarded?	providing additional
		clarification on the topic
CN ID #20	Government of Nunavut (GN)	
GN-IR#20	The GN requests the Proponent provide the	
	rational for the use of non-default settings for	
CNLID#20	IKINE and IOBR parameters.	
GN-IR#28	The GN requests the Proponent confirm that the	
	noise effects listed in Section 3.1.2.2 refer to the	
	Milne Port and not the Mine Site.	

CN ID#20	The CN requests the Droponert gravita resident	
GN-IR#29	The GN requests the Proponent provide revised	
	Figures 3 and 4 to present the 3 insets described	
	in Section 3.1.3.2.	
GN-IR#33	The GN requests the Proponent provide the	
	following information:	
	1. Indicate whether the noise contours presented	
	in Figures 5 to 8 include an assumed ambient	
	noise level.	
	2. If the noise contours presented in Figures 5 to	
	8 do include an assumed ambient noise level,	
	indicate what that assumed noise level is on	
	each Figure.	
	3. Revise Figures 10 and 11 to present the	
	operations phase of the northern transportation	
	corridor.	
GN-IR#35	The GN requests the Proponent provide the	
	following information:	
	1. Provide the assumptions used for the train	
	noise modeling. Are train horns included?	
	2. Confirm the assumptions represent a worst-	
	case scenario (i.e. the construction and/or	
	production period at which the highest	
	frequency of locomotives are travelling between	
	the Mine Site to Milne Port).	
GN-IR#38	The GN requests the Proponent provide the	
GIV HUISO	following information:	
	1. Provide the sound source level used for the	
	mine haul trucks in the Milne Port noise model.	
	2. Revise Figures 7 and 8 to include the effects	
CN ID #64	of mine haul trucks and revise Section 3.2.2.4.	
GN-IR#64	The GN requests the Proponent clarify if this is	
	a typographical error or provide an explanation	
	as to why additional water taking is required	
	beyond that of the approved Water License.	
GN-IR#75	The GN requests the proponent clarify training	
	partners include both the GN Department of	
	Family Services and the Department of	
	Education.	
GN-IR#78	The GN requests the Proponent provide the	
31 . 22 7 0	following information:	
	1. Whether the Rules of the Road (or some	
	variation) in Attachment B are shared with	
	,	
	community residents.	
	2. How often and through what methods are	
	these rules shared?	
GN-IR#80	The GN requests the Proponent clarify the	IR limited to Baffinland
	following information:	providing confirmation if

i	1. "No Expiry" should instead indicate	the suggested updates are
	"December 31st or annually".	what was intended for
	2. "No Amendment to Permit likely required"	informational purposes.
	should instead indicate that "Yearly Permits are	Updates to documents
	likely required".	handed in tech review.
GN-IR#81	The GN requests that the Proponent provide a	nanded in teen review.
OIN-IIX#01	copy of the palaeontological desktop study to	
	the Territorial Archaeology Office in order to	
	assist in providing adequate recommendations	
	for the Assessment and Mitigation of Adverse	
	Impacts to Paleontological Resources.	
GN-IR#82	The GN requests that the Proponent provide	
GIV IK#02	clarification and additional information	
	concerning:	
	1. Detail of the criteria used to assess site	
	significance;	
	2. Reconciliation of the inconsistency between	
	Section 9.1 ("An expanded terrestrial footprint	
	with the addition of the North Railway, which	
	will affect archaeological sites of low cultural	
	significance [TSD 25, Section 9.1]) with	
	Table 9.3 (TSD 25, Section 9.7.1), where 4 of	
	12 sites listed in the table are rated a high level	
	of significance.	
	World Wildlife Foundation (WWI	(7)
WWE ID		
WWF-IR	1. Provide an assessment of the acoustic	IR limited to providing any
#1	1. Provide an assessment of the acoustic disturbance for Project vessels (tugs and	IR limited to providing any additional clarification on
	disturbance for Project vessels (tugs and	additional clarification on
	disturbance for Project vessels (tugs and ore carriers) on marine mammals that are	additional clarification on data used in the explanation
	disturbance for Project vessels (tugs and ore carriers) on marine mammals that are expected to be present during various	additional clarification on data used in the explanation of current conclusions.
	disturbance for Project vessels (tugs and ore carriers) on marine mammals that are expected to be present during various scenarios (berthing, transit, and	additional clarification on data used in the explanation of current conclusions. Adequacy of the assessment
	disturbance for Project vessels (tugs and ore carriers) on marine mammals that are expected to be present during various scenarios (berthing, transit, and mooring), particularly considering ice	additional clarification on data used in the explanation of current conclusions. Adequacy of the assessment of acoustic disturbance on
	disturbance for Project vessels (tugs and ore carriers) on marine mammals that are expected to be present during various scenarios (berthing, transit, and mooring), particularly considering ice conditions expected to be present during	additional clarification on data used in the explanation of current conclusions. Adequacy of the assessment of acoustic disturbance on marine mammals would be
	disturbance for Project vessels (tugs and ore carriers) on marine mammals that are expected to be present during various scenarios (berthing, transit, and mooring), particularly considering ice conditions expected to be present during the extended shipping window (November 1-15). 2. Request that the Proponent review and	additional clarification on data used in the explanation of current conclusions. Adequacy of the assessment of acoustic disturbance on marine mammals would be determined through the
	disturbance for Project vessels (tugs and ore carriers) on marine mammals that are expected to be present during various scenarios (berthing, transit, and mooring), particularly considering ice conditions expected to be present during the extended shipping window (November 1-15).	additional clarification on data used in the explanation of current conclusions. Adequacy of the assessment of acoustic disturbance on marine mammals would be determined through the technical review process.
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	disturbance for Project vessels (tugs and ore carriers) on marine mammals that are expected to be present during various scenarios (berthing, transit, and mooring), particularly considering ice conditions expected to be present during the extended shipping window (November 1-15). 2. Request that the Proponent review and update all sections of its FEIS Addendum and supporting documents, as well as relevant assessments, to include the proposed extended shipping window July	additional clarification on data used in the explanation of current conclusions. Adequacy of the assessment of acoustic disturbance on marine mammals would be determined through the technical review process. Required updates to all sections of the FEIS Addendum and supporting documents, as well as relevant assessment will be
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#1	disturbance for Project vessels (tugs and ore carriers) on marine mammals that are expected to be present during various scenarios (berthing, transit, and mooring), particularly considering ice conditions expected to be present during the extended shipping window (November 1-15). 2. Request that the Proponent review and update all sections of its FEIS Addendum and supporting documents, as well as relevant assessments, to include the proposed extended shipping window July 1 - November 15.	additional clarification on data used in the explanation of current conclusions. Adequacy of the assessment of acoustic disturbance on marine mammals would be determined through the technical review process. Required updates to all sections of the FEIS Addendum and supporting documents, as well as relevant assessment will be determined through the technical review process.
#1 WWF-IR	disturbance for Project vessels (tugs and ore carriers) on marine mammals that are expected to be present during various scenarios (berthing, transit, and mooring), particularly considering ice conditions expected to be present during the extended shipping window (November 1-15). 2. Request that the Proponent review and update all sections of its FEIS Addendum and supporting documents, as well as relevant assessments, to include the proposed extended shipping window July 1 - November 15. Requests that the Proponent provide the	additional clarification on data used in the explanation of current conclusions. Adequacy of the assessment of acoustic disturbance on marine mammals would be determined through the technical review process. Required updates to all sections of the FEIS Addendum and supporting documents, as well as relevant assessment will be determined through the technical review process. IR limited to Baffinland
#1	disturbance for Project vessels (tugs and ore carriers) on marine mammals that are expected to be present during various scenarios (berthing, transit, and mooring), particularly considering ice conditions expected to be present during the extended shipping window (November 1-15). 2. Request that the Proponent review and update all sections of its FEIS Addendum and supporting documents, as well as relevant assessments, to include the proposed extended shipping window July 1 - November 15. Requests that the Proponent provide the following additional information:	additional clarification on data used in the explanation of current conclusions. Adequacy of the assessment of acoustic disturbance on marine mammals would be determined through the technical review process. Required updates to all sections of the FEIS Addendum and supporting documents, as well as relevant assessment will be determined through the technical review process. IR limited to Baffinland providing additional
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	 (c) Description of ice management/breaking support activities that will be employed, and (d) outline plans and schedule for ship transits during shoulder seasons including what class and/or type of ore transit vessels are being proposed for use with the Phase 2 Proposal. 	including details of vessel types and general schedule for ship transits for the phase 2 proposal.
WWF-IR #4	Requests that the Proponent: (a) confirm that its accident scenarios and likelihood ratings (low) of ship-related accident ratings in Table 10-2 were updated to reflect the proposed level of ship transits (>200/season) (b) Provide criteria considered in risk assessments, including whether the probability of oil/fuel spills is increased with increased number of ship transits, and whether and how probability of a spill influences the calculations for the risk register	IR to Baffinland to provide confirmation of the criteria used to construct models
WWF-IR #5	Requests that the Proponent: 1) Clarify that the spill trajectory modelling conducted for the Phase 2 proposal included considerations for only intermediate fuel oil, and not diesel fuel or other distillates? If so, clarify that section 10.2.3.1 Diesel Spill Along a Shipping Route is inappropriately titled. If diesel spill modelling was also conducted, BIMC is asked to provide the results of that model. 2) BIMC confirm why TSD 19 was not updated to reflect the proposed shipping window (July 1-November 15)? 3) BIMC clarify how it determined that a mid-October spill scenario, and not an early- to mid-November scenario, was the appropriate timing for the modelling exercise to support the Phase 2 proposal. 4) BIMC provide new modelling output, or extrapolate on existing model results, showing spill behaviour closer to freeze up (i.e. within the November 1-15 window). 5) BIMC clarify whether information provided in TSD 19 is explicitly related to IFO, or whether general statements about "fuel" pertain also (or explicitly) to properties of lighter distillates (i.e. diesel).	IR limited to Baffinland providing additional clarification on the type of fuel used in the spill trajectory modeling and the availability of the modeling results. The Proponent is expected to confirm and clarify whether the section 10.2.3.1 is appropriately titled. -IR limited to Baffinland providing additional clarification around the proposed shipping window. -Does not meet criteria for IRs. Defer to technical review period. -Does not meet criteria for IRs. Defer to technical review period -IR limited to Baffinland providing additional clarification on the type of fuel referenced in TSD 19

WWF-IR	Requests that the Proponent:	-IR limited to Baffinland
#6	Confirm whether its consideration and assessment of emissions from shipping activities was based on current levels of	providing additional clarification around the limits on sulphur in marine
	sulphur in fuel? What is the current level	fuels utilized by project
	of sulphur in fuels utilized by project	ships.
	ships	
	2) Provide further detail on SOx emissions	
	predictions following the 2020	-Does not meet criteria for
	implementation of the MARPOL cap on	IRs.
	sulphur in fuels? 3) Confirm whether it considered the use of	-Defer to technical review
	lighter (non-IFO/HFO) fuels for use by	period.
	Phase 2 project shipping?	-Defer to technical review
	4) Provide details regarding the feasibility	period
	assessment of contracting shippers that	
	use non-IFO/HFO fuels for project	
MAKE ID	shipping.	ID I' i' I' D CC 1 1
WWF-IR #9	a) Provide updated versions of all management and response plans	IR limited to Baffinland providing additional
#9	pertaining to the North Railway.	clarification on
	Specifically, this must include proposed	transportation of fuel by
	mitigation and response for accidents	railway. Required updates to
	related to fuel transportation by rail	all management plans and
	b) Provide a clear proposal with regard to	response plans pertaining to
	the implementation of the transportation	the North Railway and the
	of fuel via rail, including the volumes,	adequacy of impact
	frequency, and schedule for this transport (i.e. seasonal restrictions/coordination	assessment, mitigation and monitoring will be
	with truck transport, etc.), as well as fuel	determined through the
	transfer loading and unloading	technical review period.
	procedures/activities at rail facilities.	r i i i i i i i i i i i i i i i i i i i
	c) Provide specific impact assessment,	
	mitigation, and monitoring details with	
	regard to this project activity.	L (CIDNAC)
CIRNAC-	Crown-Indigenous and Northern Affairs Cana	da (CIKNAC)
IR#2	CIRNAC requests that the Proponent provide the following additional information:	
IIII Z	a) Whether a North Railway alternative capable	
	of transporting 30 Mtpa was ever considered;	
	b) If so, why a North Railway alternative capable	
	of transporting 30 Mtpa was ultimately	
	discounted as not being viable; and	
	c) Include the analysis of no-go alternative for	
	building a North Railway capable of transporting	
	12 Mtpa to Milne Port.	

CIRNAC- IR#3	CIRNAC requests that the Proponent provide, as per the EIS Guidelines, a detailed description of	
1K#3	the geology and geomorphology aspects in the	
	project area and consideration of their effects on	
	the major project components including but not	
	limited to: dock facilities, railway embankments,	
	bridges, major watercourse crossings, open pit,	
	and equipment pads.	
CIRNAC-	CIRNAC requests that the Proponent provide the	IR limited to Baffinland
IR#4	following information, as per the EIS	confirming if the
	Guidelines:	development of any further
	a) Geology and mineralogy of the ore deposit;	deposits are part of the
	b) Deposit locations;	Phase 2 scope, and this
	c) Detailed structural geology map;	information would be
	d) Lithology and mineralogy in the Project area;	required for additional
	e) Presence of ice lenses and implications to the	deposits. Duplication on
	Project;	descriptions related to the
	f) The nature, depth and thickness of the ore	previously approved Mary
	deposit to be mined;	River deposit not required.
	g) Estimated volumes and characteristics of	
	waste rock;	
	h) ARD and metal leaching characteristics;	
	i) Ore body delineation;	
	j) Permeability of the open pit; and	
	k) General characterization of the pit water.	
CIRNAC-	CIRNAC requests that the Proponent provide the	IR limited to noting where
IR#5	following information with respect to the WRF:	these activities would be
	a) Physical characteristics of processed ore,	changing as a result of the
	including size and quantities of fines;	Phase 2 proposal, and
	b) Details of the water drainage, diversion and	further details on how these
	discharge;	components would change.
	c) Chemical stability analysis of the waste rock;	
	and	
CIDNIAC	d) Measures to prevent ARD and ML.	TC1 1 '11'
CIRNAC-	CIRNAC requests that the Proponent provide:	The plans were provided in
IR#6	a) An updated version of the EPP and	the most recent FEIS
	Environmental Management Plans, applicable to	Addendum, specific
	Mary River Project Phase 2 considering the	requirements of these plans
	North Railway and the expansion of Milne Port;	should be discussed by
	b) A Follow-up and Adaptive Management Plan that indicates the criteria and thresholds to	parties through the technical review period.
		Teview periou.
	trigger mitigation measures for the evaluation of the efficiency of mitigation measures;	
	c) Quality Assurance and Quality Control	
	measures to be applied to the monitoring	
	program; and	
	program, and	

	d) Updated Management, Mitigation and	
	Monitoring Plans as proposed in TSD-28 for the	
	technical review period.	
CIRNAC-	CIRNAC requests that the Proponent provide the	IR limited to Baffinland
IR#7	following information:	providing additional
	a) Calculations of de-watering volumes to be	information if these
	pumped based on meteorological baseline and	components are changing
	other relevant analysis;	through the Phase 2
	b) A description of mine de-watering methods;	application, or confirmation
	c) Proposed geotechnical works, sediments	if the previous assessment
	disposal and disposal methods; and	remains applicable.
	d) Develop contingency strategies should	
	monitored mine water volumes differ from	
	predictions.	
CIRNAC-	CIRNAC requests that the Proponent provide:	IR limited to discussion of
IR#8	a) Geochemical testing of rock cut areas in the	criteria, expectations for
	North Railway area; and	contingency planning to be
	b) Information available on the risk of	discussed by parties through
	encountering ARD/ML material in the North	tech review.
	Railway construction materials and how this can	
	be mitigated effectively to avoid unexpected	
CIRNAC-	problems in the long term.	
IR#9	CIRNAC requests the Proponent provide the following:	
III.	a) Summary of mine site water quality	
	monitoring data; and	
	b) Updated water quality predictions of seepage	
	and run-off incorporating monitoring data.	
CIRNAC-	CIRNAC requests the Proponent provide the	
IR#10	following:	
	a) Interim ML/ARD Assessment of Railway	
	Quarry Rock Samples (Baffinland Mary River	
	Project, December 2010); and	
	b) Additional geochemistry reports and data sets	
	that may be relevant to the quarry areas.	
CIRNAC-	CIRNAC requests that the Proponent provide the	
IR#11	following:	
	a) The proposed areas of snow stockpiles at	
	Milne Port and along the Tote Road;	
	b) Details on the physical delineation of 31 m	
	boundary from water body in the Snow	
	Management Plan; and	
	c) Description of methods used in the field to	
CIDNIAC	delineate these areas.	
CIRNAC-	CIRNAC requests that the Proponent provide the	
IR#12	following:	

		T
	a) Details on contaminated snow and ice	
	collected volumes from previous and current	
	operations at site; and	
	b) Details on projected volumes and	
	requirements.	
CIRNAC-	CIRNAC requests that the Proponent provide the	
IR#13	following:	
	a) A summary of the investigation reports	
	describing the geological conditions and	
	geotechnical investigations along the Railway	
	alignment; and	
	b) A summary of the feasibility study regarding	
	the North Railway embankment designs (Hatch	
	2017c).	
CIRNAC-	CIRNAC requests that the Proponent provide the	IR limited to (c) as the
IR#14	following:	requirement for additional
III.	a) Thermal modelling or analysis and monitoring	studies would be determined
	plans for the entire service life of the	through the technical review
	infrastructure and related facilities such as the	process.
	North Railway, docks, railway embankments,	process.
	bridges, and other relevant components, as well	
	as for the WRF;	
	b) Incorporate the site-specific meteorological	
	information in its climate change assessment and	
	update the relevant modelling accordingly;	
	c) Clarification as to when the Proponent expects	
	suitable data to become available for updating	
	thermal modelling; and	
	d) Thaw consolidation data or thaw strain	
	predictions for various infrastructures, namely	
	North Railway, docks, railway embankments,	
	bridges, and other relevant components.	
CIRNAC-	CIRNAC requests that the Proponent provide an	
IR#16	updated Table 1-1 including:	
	a) Clear description of expected changes in	
	quantities and types of waste (including sewage)	
	that would be required to be managed under	
	Phase 2;	
	b) Locations and capacities of key management	
	infrastructure such as landfills, incinerators and	
	sewage treatment plants; and	
	c) Details related to expected changes in	
	quantities and type of hazardous materials	
	associated with Phase 2 and their expected	
	management, particularly those associated with	
	fuel and explosive agents.	
<u> </u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I

CIRNAC-	CIRNAC requests that the Proponent provide the	IR limited to providing data
IR#17	following:	that is accessible to produce,
IIII /	a) The 2014 version of Mine Rock ML/ARD	or outlining when the data
	Characterization Report Deposit 1, Mary River	would be available for
	Project, as appended to the Life-of-Mine Waste	parties to consider
	Rock Management Plan;	parties to consider
	b) Detailed results from the blast hole data	
	completed in 2017, referred to in the Interim	
	Waste Rock Management Plan;	
	c) Detailed results from 2018 Geochemical	
	Evaluation, referred to in the Interim Waste	
	Rock Management Plan; and	
	d) Geochemical reports or data sets from mine	
	sites in comparable climatic conditions.	
	Natural Resources Canada (NRCa	n)
NRCan-	Please indicate if detailed terrain mapping at a	
IR#1	larger scale providing additional information on	
	terrain sensitivity has been conducted. If this	
	mapping has been conducted, please provide the	
	maps. If this mapping has not been done, please	
	indicate if there are plans to complete this	
	mapping to support infrastructure design.	
NRCan-	Please clarify if any ground thermal data have	
IR#2	been collected for the Northern Railway	
	Corridor and provide details on these data if they	
	have been collected. If such data have not yet	
	been acquired, please describe any plans to	
	collect these data in the future to support	
	infrastructure design.	
NRCan-	Please clarify if any thermal analysis/modelling	
IR#3	has been conducted to support estimates of	
	settlement to inform embankment design for the	
	Northern Railway and provide details on any	
	analysis completed. If such analysis has not yet	
	been conducted, please describe any future plans	
	for detailed thermal/analysis to support	
	embankment design.	
NRCan-	Please provide, to the extent currently possible,	
IR#4	confirmation that there will not be any	
	significant changes in the proposed explosives	
	plant or storage facilities as described in a 2012	
	Explosives Management Plan and other Mary	
	River Project documents. Also, please confirm	
	that the construction and operation of new rail	
	infrastructure will not require changes in the	
	location of explosives manufacturing and storage	

	components with respect to Quantity-Distance	
	requirements.	
	Environment and Climate Change Canada	a (ECCC)
ECCC-IR#1	1. Describe the migratory bird and species at risk surveys that were collected to specifically inform the site sensitivity for the wind energy project. 2. Provide details on what specific pre-	
	construction phase surveys for migratory birds and species at risk are planned and when these	
	surveys will be conducted. These surveys should be consistent with ECCC guidance (EC 2007a, 2007b) including the level of effort required	
	given predicted site sensitivity. 3. Describe how mitigation or monitoring requirements identified as a result of	
	construction phase surveys will be incorporated in the project design.	
ECCC-IR#7	1. Characterize all dust and total suspended particulate sources broken down into each metal associated with each source (e.g. metal	
	speciation of the dust and total suspended particulate sources).	
	2. Provide predicted metal depositions associated with Total Suspended Particulate and dust deposition from all dust sources	
ECCC-IR#8	ECCC requests that the Proponent clarify if the amount of waste being incinerated will increase due to increased workers onsite. If the amount of waste incineration is increasing, ECCC	
	recommends the frequency of incineration stack testing be increased from 5 years to every 3 years.	
ECCC- IR#10	1. Provide information on how mitigation has reduced dustfall deposition and sedimentation in waterbodies since the previously documented dust exceedances, and how these methods will	
	be sufficient to mitigate the expected further increases in dust due to the Phase 2 Project. 2. Provide information on how dust deposition and subsequent impacts to water quality will be	
FOOC	monitored and mitigated along the transportation corridor and at Milne Port.	
ECCC- IR#11	ECCC requests that the Proponent identify criteria that would be used to determine whether runoff from the ore transfer area stockpiles is suitable for dust suppression along the North	
	Transportation Corridor.	

ECCC-	ECCC requests that both missing references be	
IR#13	provided and included in further revisions to the	
IK#15	Ice Study Updates (TSD 16).	
ECCC-	ECCC requests that the Proponent update the	
IR#14	reference to the physical and chemical properties	
	of IFO-180 fuel oil.	
ECCC-	ECCC requests that the Proponent provide the results	
IR#16	on their shoreline classification data surveys so that	
	this data can inform the effects assessment of	
Face	potential spills of fuel/oil on water.	
ECCC-	ECCC requests that the Proponent identify how	
IR#18	additional camp wastewater treatment needs will be met, and if there will be any potential changes to	
	receiving environments due to increased discharges	
	as well as if additional mitigation measures will be	
	required.	
ECCC-	ECCC requests that the Proponent update	IR limited to confirming
IR#21	references of the MMER to MDMER.	where references would be
		updated, but not require re-
		submitting actual documents
ECCC-	1. Revise Table 1 to include the updates that are	IR limited to confirmation
IR#22	required for the Landfill Maintenance and	on if these items would be
	Operations Manual. These updates are identified	updated, not the revision
	in Table 11.	and resubmission of the
	2. Update the Landfill Maintenance and	actual document.
7000	Operations Manual accordingly.	
ECCC-	ECCC requests that the Proponent provide a	
IR#24	description of the changes to the Interim Closure and Reclamation Plan that will be required as part of the	
	changes at Milne Port during the Phase 2 Project.	
	Health Canada (HC)	
HC-IR#8	1) Further discussion if the added tonnage would	
	increase the height of the fine ore stockpile and	
	therefore increase the potential for wind erosion.	
	2) The most recent dust monitoring and	
	management plan inclusive of all sources of dust	
	including those newly identified but not limited	
	to all vehicle traffic, ore dust from locomotive	
	loading and transport, and wind erosion of all	
	stockpiles using winds at the height of stockpile	
	not at ground level was not included and if	
	required update the effects assessment	
	Fisheries and Oceans Canada (DFO	0)
DFO-IR#2	Provide an updated/consolidated table which	
	contains all information related to shipping. The	
	table should include information from 2019-	
	2035 regarding:	

	 a) Numbers of ships (totals for types and overall total for all vessels); b) Types of ships (e.g. Pananax/Cape Sized); c) Number of round trips for all types of vessels; d) Shipping season schedules in relation to a, b, and c; and, e) Support vessels (number and type) in relation to all the above, this includes tugs and icebreaking vessels. 	
DFO-IR#4	Provide a memorandum to summarize and discuss the results from 2014 and 2015 marine mammal surveillance monitoring program conducted onboard the Project ore carriers in 2014 and 2015.	
DFO-IR#5	Provide clarification on how acoustic modelling incorporated potential impacts of ice (e.g. ice cover, movement of vessels through ice-covered waters).	
DFO-IR#8	Provide an updated/consolidated table which contains all information related to shipping. The table should include information from 2019-2035 regarding: a) Numbers of ships (totals for types and overall total for all vessels); b) Types of ships (e.g. Pananax/Cape Sized); c) Number of round trips for all types of vessels; d) Shipping season schedules in relation to a, b, and c; and, e) Support vessels (number and type) in relation to all the above, this includes tugs and icebreaking vessels.	
DFO-IR#9	Provide additional information on: a) Areas that will be impacted by noise that may extend shoreline to shoreline and the potential impacts to mammals that are not expected to display displacement/abandonment; b) Information on proposed anchorage areas including routing, duration of vessels in anchored areas, and maximum number of vessels expected; c) The approaches that will be used to mitigate the cumulative effects of strikes and sound on habitats used by marine mammals in areas where avoidance behaviour may not occur; d) The approaches that will be used to mitigate the cumulative effects of strikes and sound on habitats used by marine mammals for nursery,	

	rearing, and foraging, especially in areas where	
	avoidance behaviour may not occur; and,	
	e) The monitoring approaches that will be used	
	to assess impacts of all activities to marine	
DEO ID#11	mammals during shoulder seasons.	
DFO-IR#11	Provide clarification on how acoustic modelling	
	incorporated potential impacts of ice (e.g. ice	
	cover, movement of vessels through ice-covered	
	waters).	
DC ID#4	Parks Canada (PC)	
PC-IR#4	a) Please define the dates for the proposed	
	Phase 2 shipping season (for all vessel	
	types: ore, freight, and fuel) and identify	
	if these dates include the window for	
	operational flexibility.	
	b) Please provide the criteria that will be	
	used to adjust the shipping season to	
	weather and ice conditions.	
	Please provide the approval process that will	
	take place each year in deciding when to open	
	and close the shipping season, including the	
	format of community input.	
OC ID#1 2	Oceans North (OC)	ID limited to Deffinite d
OC-IR#1-3	Information is requested regarding	IR limited to Baffinland
	comprehensive Inuit and non-Inuit	providing a summary of the
	employment statistics over the course of the	issues related to its hiring
	Early Revenue Phase, on a per annum	practices for the various
	basis. Specifically, the following data:	phases, indicating barriers to
	I) Employment, Hours, and Wages	meeting hiring targets. The
	II) Training, Employment Duration,	more detailed statistical
	and Promotions	analysis and informing of
	III) Contracting	the benefits of the phases
		would be discussed further
		as part of the technical
		review, especially to inform
		the board of broader
		benefits of the phases to
0.0 10 114		offset the impacts identified
OC-IR#4	1 I F	
	Information is requested in terms of a	
	comprehensive financial forecast for the Mary	
	comprehensive financial forecast for the Mary River Project. The following data and rationale	
	comprehensive financial forecast for the Mary River Project. The following data and rationale are requested for projections incorporating	
	comprehensive financial forecast for the Mary River Project. The following data and rationale are requested for projections incorporating current output levels, as well as a second forecast	
	comprehensive financial forecast for the Mary River Project. The following data and rationale are requested for projections incorporating current output levels, as well as a second forecast for Phase 2. *Each projection should	
	comprehensive financial forecast for the Mary River Project. The following data and rationale are requested for projections incorporating current output levels, as well as a second forecast for Phase 2. *Each projection should accommodate for a range of ore prices and	
	comprehensive financial forecast for the Mary River Project. The following data and rationale are requested for projections incorporating current output levels, as well as a second forecast for Phase 2. *Each projection should	

	Operating costs/tonne
	Internal rate of return
	Payback period
	Cumulative net cash flow
OC-IR#5	BIMC notes that "There was no significant
	change in overall narwhal abundance and
	distribution observed in the area from 2014-
	2017." Information is requested surrounding the
	following:
	I. Results that show statistical evidence to
	back up statement
	II. LGL final report from 2016. Note that we
	are aware this document exists, and we
	have asked for this multiple times.