

Nunavut Regional Office P.O. Box 100 Iqaluit, NU, X0A 0H0

> Your file - Votre référence 08MN053 Our file - Notre référence CIDM# 798246

June 13, 2013

Amanda Hanson Director, Technical Services Nunavut Impact Review Board P.O. Box 1360 Cambridge Bay, NU, X0B 0C0 Via electronic mail to: infor@nirb.ca

Re: Comment Request for Baffinland Iron Mines Corporation's Mary River Project 2013 **Annual Monitoring Report**

Dear Ms. Hanson,

On April 10, 2014, as per Section 12.7 of the Nunavut Land Claims Agreement (NLCA) and the Mary River Project Certificate [# 005], the Nunavut Impact Review Board (NIRB) requested parties to review Baffinland Iron Mines Corporation (BIMC) 2013 Annual Report with respect to effects and compliance monitoring. Aboriginal Affairs and Northern Development Canada (AANDC) has conducted a review in areas under our mandate as they pertain to compliance monitoring and AANDC's responsibilities for the Type 'A' Water Licence and land use authorizations. We would like to provide comments for NIRB's consideration as follows:

1) Effects Monitoring

- Whether the conclusions reached by AEM in the 2013 Annual Report are valid;
- b. Any areas of significance requiring further studies; and
- c. Changes to the monitoring program which may be required.

AANDC has no concerns with regard to effects monitoring associated with the Mary River project at this time.

2) Compliance Monitoring

- a. Provide any compliance monitoring and/or site inspection reports to the NIRB including the following information:
 - How the authorizing agency has incorporated the terms and conditions from the Project Certificate into their permits, certificates, licenses or other government approvals, where applicable;



AANDC has a broad mandate for the co-management of water resources and the management of Crown Land in Nunavut under the following applicable acts and regulations:

- The Department of Indian Affairs and Northern Development Act (DIAND Act);
- The Nunavut Land Claims Agreement Act;
- The Arctic Waters Pollution Prevention Act and Regulations;
- The Nunavut Waters and Nunavut Surface Rights Tribunal Act and Regulations; and
- The Territorial Lands Act and Regulations.

In terms of water management in Nunavut, AANDC has a number of different responsibilities. The Minister of AANDC has a decision making role with regard to the Nunavut Water Board's (NWB) issuance of any water licences associated with a project. Further, AANDC participates as an intervener in the water licensing process, providing advice and expertise. As well, when a proposed project is approved to proceed, the Department is responsible for inspecting and enforcing any terms and conditions (T&C) contained within any water licence associated with a project. However, the decision to implement the T&Cs of a Project Certificate, from the perspective of water management, rests with the Nunavut Water Board.

Although we are not responsible for implementing water related T&Cs, we have reviewed the Type 'A' water licence associated with the Mary River project (2AM-MRY1325) with respect to Project Certificate # 005 and have included a concordance table (Appendix A) that outlines how these T&Cs have been incorporated in the water licence.

In July of 2007, AANDC issued a land use permit (N2007F0004) for the portion of the tote road that is not on Inuit Owned Land as well as an accompanying quarry permit (2013QP0086). The land use permit for the tote road was issued prior to NIRB issuing Project Certificate #005 so the implementation of T&Cs was not considered when preparing this regulatory document. However, the land use and quarry permits will be renewed in the next few weeks and AANDC will work towards implementing appropriate T&Cs into the updated regulatory documents.

AANDC has worked collaboratively with BIMC and the Government of Nunavut to develop a socio-economic monitoring program that is anticipated to address (but is not limited to) conditions 129, 131, 133, 145, 148, 154, 159 168, and 169. It is expected that work towards a comprehensive program will continue throughout 2014.

- ii. A summary of any inspections conducted during the 2013 reporting period, and the results of these inspections; and
- A summary of AEM's compliance status with regard to authorizations iii. that have been issued for the project.

A Water Resource Officer from AANDC's Field Operations Division performed an inspection of water licence compliance of the Mary River Project at both the Mary River and Milne Inlet camp sites on the 4th and 5th of May 2013. As outlined on pages 50 and 51 of BIMC's Mary River Project annual report, there were no issues of non-compliance with regards to BIMC's water licence requirements at either site that resulted from this inspection. The inspection report produced by the AANDC Resource Officer has been submitted by BIMC to the NIRB and can be found in Appendix L.1 of BIMC 2013 Annual Report. Comments and guidance provided by the Field Operations staff member during the inspection is outlined in this report.



From August 15 to 17, 2013 a second inspection of water licence compliance by an AANDC Water Resource Officer was conducted at the Mary River, Milne Inlet and Steensby Camp sites. Again, as outlined on pages 50 and 51 of Baffinland's annual report, there were no major issues of non-compliance reported by AANDC inspectors; however, there were some minor issues documented. BIMC responses to the inspector's concerns are outlined in Appendix L. 3 of the 2013 Annual Report. AANDC is satisfied with BIMC's response to our inspector's concerns and we will continue to work with BIMC to ensure compliance with all water license requirements associated with this project.

On page 52 of the Mary River 2013 annual report BIMC has reported two terms and conditions that they "will be unable to comply with in the foreseeable future" (Section 5.6.3 and Table 5.6). These include T&C # 173 and # 68 from Project Certificate # 005. T&C # 173 involves the use of containment booms during ship-to-shore transfers of fuel and T&C # 68 involves the installation of lights and guy wire deterrents on communications towers.

The effectiveness of the environmental assessment process in Nunavut hinges on the realization of mitigation measures described and committed to during the NIRB Review process and the implementation of and compliance with T&Cs outlined in the Project Certificate. Where a proponent has concerns with a particular T&C, section 12.8.2 of the NLCA allows for a T&C to be reconsidered pursuant to the criteria outlined in sub-sections (a), (b), and (c). As you know, this section of the NLCA has been employed by BIMC recently and T&C #173, among others. has been amended following the review of the "Early Revenue Phase" proposal. As a result, the utilization of containment booms during the offloading of fuel is no longer considered necessary. AANDC encourages BIMC to work with regulators to find a way to implement T&C # 68. In the alternative, it has the option to apply to NIRB to have this T&C amended pursuant to section 12.8.2 of the NLCA.

In conclusion, AANDC very much appreciates the opportunity to review Baffinland Iron Mines Corporation's Mary River Project 2013 Annual Monitoring Report. Should you have any questions, please do not hesitate to contact me at 867-975-4549 or by email at james.neary@aandc-aadnc.gc.ca.

Sincerely,

[Original signed by]

James Neary A/Manager of Environment Aboriginal Affairs and Northern Development Canada



Appendix A: Terms and Conditions (T&C) carried over from the Project Certificate into the Water Licence

T&C	Description	Implemented in Water Licence
2	The Proponent shall provide the results of any	No but if there are predicted impacts
	new or revised assessments and studies done to	to freshwater, an Inspector may
	validate and update climate change impact	impose additional monitoring
	predictions for the Project and the effects of the	requirements (Part I, Item 26).
	Project on climate change in the Local Study	Also, changes to the Monitoring
	Area and Regional Study Area as defined in	Program can be requested and the
	The Proponent's Final Environmental Impact	NWB can modify the Monitoring
	Statement.	Program without a public hearing
		(Part I, Item 28).
8	The Proponent shall demonstrate through	No but in cases where an
	monitoring of air quality at the mine site and at	exceedance is manifested and
	the Steensby Inlet Port site that SO2 and NO2	additional monitoring of freshwater
	emissions remain within predicted levels and,	may be required, an Inspector may
	where applicable, within limits established by	impose additional monitoring
	all applicable guidelines and regulations. In	requirements (Part I, Item 26).
	cases where exceedances are manifested, the	Also, changes to the Monitoring
	Proponent shall provide an explanation for the	Program can be requested and the
	exceedance, a description of planned mitigation,	NWB can modify the Monitoring
	and shall conduct additional monitoring to	Program without a public hearing
	evaluate the effectiveness of mitigative	(Part I, Item 28).
	measures.	(1 a. 1, 10111 20).
10	The Proponent shall update its Dust	Potential but not yet a requirement.
10	Management and Monitoring Plan to address	1 otential but not yet a requirement.
	and/or include the following additional items:	
	a) Outline the specific plans for monitoring dust	
	along the first few kilometres of the rail corridor	
	leaving the Mary River mine site.	
	b) Identify the specific adaptive management	
	measures to be considered should monitoring	
	indicate that dust deposition from trains	
	transporting along the rail route is greater than	
	initially predicted.	
11	The Proponent shall develop and implement an	Partial. Part F (the Incineration Plan
11	Incineration Management Plan that takes into	was approved under the Waste
	consideration the recommendations provided in	Management Plan and the WL
	Environment Canada's Technical Document for	requires testing/disposal of bottom
	Batch Waste Incineration (2010).	ash and records of analysis results
	Buten waste memoration (2010).	and volumes of ash).
13	The Proponent is encouraged to work with	Potential but not yet a requirement.
13	Fisheries and Oceans Canada at the regulatory	1 otential but not yet a requirement.
	phase and to take a precautionary approach	
	when selecting the overpressure threshold to be	
	applied to explosives use for the protection of	
	fish and aquatic life.	
16	The Proponent shall ensure that the water	Yes. Part D.
10	related infrastructure or facilities that are	103.1 at 12.
	designed and constructed, including the modification of culverts, diversion of	
	watercourses, and diversion of runoff into	
	watercourses along the railway, access roads,	

	the Milne Tote Road, and other areas of the	
	Project site, are consistent with those proposed	
	in the FEIS in terms of type, location, and scope	
	and that the requirements of all relevant	
	regulatory authorities are satisfied advance of	
	constructing those facilities.	
17	The Proponent shall develop and implement	Yes. Parts F and I.
	effectives measures to ensure that effluent from	
	project-related facilities and/or activities,	
	including sewage treatment plants, ore	
	stockpiles, and mine pit, satisfies all discharge	
	criteria requirement established by the relevant	
	regulatory agencies prior to being discharged	
	into the receiving environment.	
18	The Proponent shall carry out continued	Yes. Part F, Item 3.
	analyses over time to confirm and update,	
	accordingly, the approximate fill time for the	
	mine pit lake identified in the FEIS.	
19	The Proponent shall ensure that it develops and	Yes. Parts B, D, E, and I.
	implement adequate monitoring and	
	maintenance procedures to ensure that the	
	culverts and other conduits that may be prone to	
	blockage do not significantly hinder or alter the	
	natural flow of water from areas associated with	
	the proposed mine. In addition, the Proponent	
	shall monitor, document and report the	
	withdrawal rates for water removed and utilized	
	for all domestic and industrial purposes.	
20	The Proponent shall monitor the effects of	Yes. There is a requirement to
	explosives residue and related by-products from	submit a Blasting Management Plan
	project-related blasting activities as well as	30 days prior to implementation
	develop and implement effective preventative	(Part E, Item 24). The Licensee is
	and mitigation measures, including treatment, if	also required to monitor runoff from
	necessary, to ensure that the effects associated	borrow pits and rock quarry sites
	with the manufacturing, storage, transportation	(Part I, Item 23) and to monitor for
	and use of explosives do not negatively impact	sediment and explosives residue
	the Project and surrounding areas.	
	and ringest and surrounding arous.	release from construction areas (Part
	and respect time sum	D, Item 18, g).
21	The Proponent shall ensure that the scope of the	,
21	The Proponent shall ensure that the scope of the Aquatic Effects Monitoring Plan (AEMP)	D, Item 18, g).
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21	The Proponent shall ensure that the scope of the Aquatic Effects Monitoring Plan (AEMP) includes, at a minimum, monitoring of nonpoint sources of discharge, selection of appropriate reference sites, measures to ensure	D, Item 18, g).
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	The Proponent shall ensure that the scope of the Aquatic Effects Monitoring Plan (AEMP) includes, at a minimum, monitoring of nonpoint sources of discharge, selection of appropriate reference sites, measures to ensure the collection of adequate baseline data and the mechanisms proposed to monitor and treat runoff, and sample sediments.	D, Item 18, g). Yes. Part I.
21	The Proponent shall ensure that the scope of the Aquatic Effects Monitoring Plan (AEMP) includes, at a minimum, monitoring of nonpoint sources of discharge, selection of appropriate reference sites, measures to ensure the collection of adequate baseline data and the mechanisms proposed to monitor and treat runoff, and sample sediments. The Proponent shall develop a detailed	D, Item 18, g). Yes. Part I. There is no requirement for a plan
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	The Proponent shall ensure that the scope of the Aquatic Effects Monitoring Plan (AEMP) includes, at a minimum, monitoring of nonpoint sources of discharge, selection of appropriate reference sites, measures to ensure the collection of adequate baseline data and the mechanisms proposed to monitor and treat runoff, and sample sediments. The Proponent shall develop a detailed Sediment and Erosion Management Plan to prevent and/or mitigate sediment loading into	D, Item 18, g). Yes. Part I. There is no requirement for a plan but there is a requirement to implement sediment and control
22	The Proponent shall ensure that the scope of the Aquatic Effects Monitoring Plan (AEMP) includes, at a minimum, monitoring of nonpoint sources of discharge, selection of appropriate reference sites, measures to ensure the collection of adequate baseline data and the mechanisms proposed to monitor and treat runoff, and sample sediments. The Proponent shall develop a detailed Sediment and Erosion Management Plan to prevent and/or mitigate sediment loading into surface water within the Project area.	There is no requirement for a plan but there is a requirement to implement sediment and control measures (Part D, Item 5).
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22	The Proponent shall ensure that the scope of the Aquatic Effects Monitoring Plan (AEMP) includes, at a minimum, monitoring of nonpoint sources of discharge, selection of appropriate reference sites, measures to ensure the collection of adequate baseline data and the mechanisms proposed to monitor and treat runoff, and sample sediments. The Proponent shall develop a detailed Sediment and Erosion Management Plan to prevent and/or mitigate sediment loading into surface water within the Project area. The Proponent shall develop and implement a Groundwater Monitoring and Management Plan to monitor, prevent and mitigate the potential effects of the Project on groundwater within the	D, Item 18, g). Yes. Part I. There is no requirement for a plan but there is a requirement to implement sediment and control measures (Part D, Item 5). There is no requirement for a plan but there is a requirement to conduct
22	The Proponent shall ensure that the scope of the Aquatic Effects Monitoring Plan (AEMP) includes, at a minimum, monitoring of nonpoint sources of discharge, selection of appropriate reference sites, measures to ensure the collection of adequate baseline data and the mechanisms proposed to monitor and treat runoff, and sample sediments. The Proponent shall develop a detailed Sediment and Erosion Management Plan to prevent and/or mitigate sediment loading into surface water within the Project area. The Proponent shall develop and implement a Groundwater Monitoring and Management Plan to monitor, prevent and mitigate the potential	D, Item 18, g). Yes. Part I. There is no requirement for a plan but there is a requirement to implement sediment and control measures (Part D, Item 5). There is no requirement for a plan but there is a requirement to conduct opportunistic monitoring on any

	and a count in a manuscript of the affiliant constant of	T
	relevant parameters of the effluent generated	
	from Project activities and facilities and shall	
	carryout treatment if necessary to ensure that	
25	discharge conditions are met at all times.	Vac Dort D. Itama 10 (Dort I. Itama 12
25	The Proponent shall undertake the additional	Yes. Part D, Item 19 (Part I, Item 12
	geotechnical investigations to identify sensitive	for water infrastructure).
	landforms, modify engineering design for	
	Project infrastructure and develop mitigation	
	and monitoring measures to minimize the	
	impacts of the Project's activities and	
	infrastructure on sensitive landforms.	
26	The Proponent shall develop and implement a	There is no requirement for a plan
	comprehensive erosion management plan to	but there are requirements
	prevent or minimize the effects of	throughout the licence to prevent or
	destabilization and erosion that may occur due	minimize erosion (Parts D, E, F)
	to the Project's construction and operation.	
28	The Proponent shall monitor the effects of the	There is a requirement to minimize
	Project on the permafrost along the railway and	disturbance to permafrost (as well as
	all other Project affected areas and must	terrain and drainage) around the site,
	implement effective preventative measures to	including the railway corridor (Part
	ensure that the integrity of the permafrost is	D, Item 11).
	maintained.	
29	The Proponent shall provide to the respective	Yes. Part D, Item 2 and Part E, Item
	regulatory authorities, for review and	23.
	acceptance, for-construction engineering design	
	and drawings, specifications and engineering	
	analysis to support design in advance for	
	constructing those facilities. Once project	
	facilities are constructed, the Proponent shall	
	provide copies of the as-built drawings and	
	design to the appropriate regulatory authorities	
30	The Proponent shall develop site-specific	Yes. Part D, Item 7.
	quarry operation and management plans in	
	advance of the development of any potential	
	quarry site or borrow pit.	
31	The Proponent shall ensure that Project	Yes. The water licence generally
	activities are planned and conducted in such a	ensures that the footprint is
	way as to minimize the Project footprint.	minimized.
33	The Proponent shall include relevant	Yes. Part J, Item 11 requires the
	Monitoring and Management Plans within its	implementation of progressive
	Environmental Management System, Terrestrial	reclamation including re-vegetation
	Environment Management and Monitoring Plan	and update of all management plans.
	(TEMMP).	and apolice of all management plans.
34	The Proponent shall conduct soil sampling to	Potential. No requirement to
-	determine metal levels of soils in areas with	conduct soil sampling for metal
	berry-producing plants near any of the potential	levels.
	development areas, prior to commencing	icvers.
	operations.	
39	The Proponent shall develop a progressive	There is a requirement to implement
27		-
	revegetation program for disturbed areas that	progressive reclamation including
	are no longer required for operations, such	revegetation (Part J, Item 10) but
	program to incorporate measures for the use of	there is no requirement to use test
	test plots, reseeding and replanting of native	plots for reseeding and replanting.
	plants as necessary. It is further recommended	
	that this program be directly associated with the	
	management plans for erosion control	

	established for the Project.	
40	The Proponent shall include revegetation strategies in its Site Reclamation Plan that support progressive reclamation and that promote natural revegetation and recovery of disturbed areas compatible with the surrounding natural environment	Yes. Part J, Items 10 and 11.
41	Unless otherwise approved by regulatory authorities, the Proponent shall maintain a minimum 100-metre naturally-vegetated buffer between the high-water mark of any fish-bearing water bodies and any permanent quarries with potential for acid rock drainage or metal leaching	Yes. Part D requires the Licensee to maintain a minimum of 31 m buffer zone between quarries and water bodies (Item 14) and to use fill material from a source that has been demonstrated to not produce ARD or ML properties (Item 13). The two T&Cs combined prohibit the Licensee to using any quarry with potential for ARD or ML.
42	The Proponent shall maintain minimum a 30- metre naturally-vegetated buffer between the mining operation and adjacent water bodies	Yes. Parts, D, E, F, and H.
43	Prior to the start of construction, the Proponent must submit a Site Drainage and Silt Control Plan to the appropriate regulatory authorities for approval.	Yes. Part D, Item 2.
44	The Proponent shall meet or exceed the guidelines set by Fisheries and Oceans Canada for blasting thresholds and implement practical and effective measures to ensure that residue and by-products of blasting do not negatively affect fish and fish habitat.	Partial. The Licensee is required to submit a Blasting Management Plan (Part E, Item 24) and a Construction Monitoring Report (Part D, Item 18) to ensure such measures are implemented.
46	The Proponent shall ensure that runoff from fuel storage and maintenance facility areas, sewage and wastewater other facilities responsible for generating liquid effluent and runoff meet discharge requirements.	Yes. Part F.
47	The Proponent shall ensure that all Project infrastructure in watercourses are designed and constructed in such a manner that they do not unduly prevent and limit the movement of water in fish bearing streams and rivers.	Yes. Part E, Item 23 requires that stream culverts and bridges are designed using DFO's guidelines to facilitate the passage of fish.
48	The Proponent shall engage with Fisheries and Oceans Canada and Qikiqtani Inuit Association in exploring possible Project specific thresholds for blasting that would exceed the requirements of Fisheries and Oceans Canada's Guidelines for the Use of Explosives In or Near Canadian Fisheries Waters (D.G. Wright and G.E. Hopky, 1998).	No but Part E, Item 24 requires the Licensee to submit Blasting Management Plans.
64	The Proponent shall ensure that its Environment Protection Plan incorporates waste management provisions to prevent carnivores from being attracted to the Project site(s). Consideration must be given to the following measures: a. installation of an incinerator beside the kitchen that will help to keep the food waste management process simple and will minimize	Partial. Part F, Item 7 authorizes the incineration of all acceptable food waste.

	the opportunity for human error (i.e. storage of	
	garbage outside, hauling in a truck (odours	
	remain in truck), hauling some distance to a	
	landfill site, incomplete combustion at landfill,	
	fencing of landfill, etc.)	
	b. installation of solid carnivore-proof skirting	
	on all kitchen and accommodation buildings	
	(i.e., heavy-duty steel mesh that would drop	
	down from the edge of the buildings/trailers and	
	buried about a half meter into the ground to	
	prevent animals from digging under the	
0.0	skirting).	T. D. III.
92	The Proponent shall ensure that it maintains the	Yes. Part H, Item 5 requires the
	necessary equipment and trained personnel to	Licensee to maintain and service
	respond to all sizes of potential spills associated	any equipment and to implement
	with the Project in a self sufficient manner.	special procedures to manage waste
	v	and contain spills (includes
		training).
99	The Proponent, working with the Marine	Baseline for freshwater systems will
22	Environment Working Group, shall consider	be included in the Aquatic Effects
	and identify priorities for conducting the	Monitoring Program (AEMP)
	following supplemental baseline assessments:	Framework. A plan is required 60
	e. Establish an all-season, inter-annual	days prior to commencing the
	baseline in Steensby Inlet that enables	Operations Phase (Part I, Item 2).
	effective monitoring of physical and	
	chemical effects of ballast water releases,	
	sewage outfall, and bottom scour by ship	
	props, particularly downslope and	
	downstream from the docks. This shall	
	include the selection and identification of	
	physical, chemical, and biological	
	community/indicator components. The	
	biological indicators shall include both	
	pelagic and benthic species but with	
	emphasis on relatively sedentary benthic	
	species (e.g., sculpins).	
	f. The collection of additional baseline data	
	in Steensby Inlet on walrus, beluga, bearded	
	seal anadromous Arctic Char abundance,	
	distribution ecology and habitat use.	
	g. Enhance baseline data on marine wildlife	
	(fish, invertebrates, birds, mammals, etc.)	
	and to provide more details on species	
	abundance and distribution found in the	
	Project area. This shall include, but not be	
	limited to the following:	
	i. Aerial surveys for basking ringed seals	
	throughout the landfast ice of Steensby	
	Inlet and at appropriate control location;	
	ii. Shore-based observations of pre-	
	Project narwhal behavior in Milne Inlet.	
	Enhance the baseline for affected freshwater	
	systems, which includes control sites to detect	
	Project-related changes before they cause	
	1 roject-related changes before they cause	
	significant ham	
117	significant harm. The Proponent shall ensure that that blasting in,	No.

	and near, marine water shall only occur during periods of open water. Blasting in, and near, fresh water shall to the greatest degree possible, only occur in open water. If blasting is required during ice-covered periods, it must meet requirements established by Fisheries and Oceans Canada.	
165	The Proponent is strongly encouraged to provide buildings along the rail line and Milne Inlet Tote Road for emergency shelter purposes, and shall make these available for all employees and any land users travelling through the Project area. In the event that these buildings cannot, for safety or other reasons be open to the public, the Proponent shall set up emergency shelters (e.g. seacans outfitted for survival purposes) every 1 kilometre along the rail line and Milne Inlet Tote Road. These shelters must be placed along Tote Road and rail routing prior to operation of either piece of infrastructure, and must be maintained for the duration of project activities, including the closure phase.	There is no requirement to have shelters along the tote road or railway but it is expected given that Part F, Item 14 requires the removal of waste generated from shelters along the tote road and along the railway corridor.