#### **ATTACHMENT 3.2**

#### SUPPLEMENTAL INFORMATION GUIDELINE CONCORDANCE

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# BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

# ATTACHMENT 3.2 - SUPPLEMENTAL INFORMATION GUIDELINES (SIG) CONCORDANCE MINIMUM APPLICATION REQUIREMENTS

Section Title	Section No.	Information Requirement General Water Works	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting ' Y ' or ' NA '	If 'NA' provide justification	Insert <u>Title, Author and</u> <u>Date of Document</u> where information is provided	Insert <u>electronic file name of documen</u> t where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	NWB Concordance Assessment
Minimum Application Requirements		General Water Licence Application Form (see the NWB's Guide 4: Completing and Submitting a Water Licence Application for a New Licence) or Application for Water Licence Amendment Form, if appropriate (see NWB's Guide 7: Licensee Requirements Following the Issuance of a Water Licence).		General Water Licence Application Form (see the NWB's Guide 4: Completing and Submitting a Water Licence Application for a New Licence) or Application for Water Licence Amendment Form, if appropriate (see NWB's Guide 7: Licensee Requirements Following the Issuance of a Water Licence).	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Att-2-Applic	All	
		Information required to satisfy the requirements of the SIG including plans, reports and designs.		Information required to satisfy the requirements of the SIG including plans, reports and designs.	Y		See Document List (Att. 3.1)	All	All	
	3	Executive summary in English.	3	Executive summary in English.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Att-1-Exec- Summ	Attachment 1	
	4	Translated executive summary in appropriate language and dialect.	4	Translated executive summary in appropriate language and dialect.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Att-1-Exec- Summ	Attachment 1	
	5	Application fee.	5	Application fee.	Υ		,		Fee payments previously	
	6	Water use fee.	6	Water use fee.	Υ				submitted to the NWB.	
		A table indicating concordance of the application and supporting documents to the Guidelines. These generic Guidelines are provided in excel as a tool for applicants to provide the necessary concordance table.		A table indicating concordance of the application and supporting documents to the Guidelines. These generic Guidelines are provided in excel as a tool for applicants to provide the necessary concordance table.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Att-3.2-SIG- Concord	Attachment 3.2	

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

Section Title	Section No.	Information Requirement General Water Works	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y'or'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert <u>electronic file name of</u> <u>document</u> where information is provided	Insert <u>Section of</u> document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Applicant	1	Provide the full name of the applicant and contact person including contact information (position, phone number, address, fax number and email address).	1	Provide the full name of the applicant and contact person including contact information (position, phone number, address, fax number and email address).	Y		See Document List (Att. 3.1)	190502-2AM-MRY1325-Amend2- Applic-Att-2-Applic	Att. No. 2 (s. 1)		
Applicant Representative	2	Provide the name and contact information of any party submitting the application on behalf of the applicant (including position, phone number, address, fax number and email address).	2	Provide the name and contact information of any party submitting the application on behalf of the applicant (including position, phone number, address, fax number and email address).	N/A	Not a third party submission					
	3	Provide a signed letter authorizing a party to be the applicant's representative in the licensing process.	3	Provide a signed letter authorizing a party to be the applicant's representative in the licensing process.	N/A	Not a third party submission					
Project Name	4	Provide the name of the project.	4	Provide the name of the project.	Y		See Document List (Att. 3.1)	190502-2AM-MRY1325-Amend2- Applic-Att-2-Applic	Att. No. 2 (s. 3)		
Location of Undertaking	5	Provide coordinates of the project extents.	5	Provide coordinates of the project extents taking into account the Local Project Area (LPA) and the Regional Project Area (RPA), where applicable.	N/A	Project coordinates					
	a b	Provide location by Latitude and Longitude.  Provide location by UTM coordinates, if available.	a b c	Provide location by Latitude and Longitude.  Provide location by UTM coordinates, if available.  Provide the distances to the nearest communities.	1	have not changed.					
	6	Indicate whether the drainage basin, in which the project is located, is shared with any other jurisdiction. If applicable, indicate which jurisdiction.	6	Indicate whether the drainage basin, in which the project is located, is shared with any other jurisdiction. If applicable, indicate which jurisdiction.	N/A	Entirely within Nunavut.					
Мар	7	Provide a map at a 1:50,000 scale based on the National Topographic Series indicating the location of the undertaking, watercourses and the location of waste deposits. Additional maps at various scales may be provided if those maps will provide additional information or clarification. All maps must indicate the scale, map sheet number, and the location of north.	7	Provide a map at a 1:50,000 scale based on the National Topographic Series indicating the location of the undertaking, watercourses and the location of waste deposits. Additional maps at various scales may be provided if those maps will provide additional information or clarification. All additional maps must indicate the scale, map sheet number, and location of north.	Υ		See Document List (Att. 3.1)	190502-2AM-MRY1325-Amend2- Applic-Att-10-Detailed-Rail-Figs	Att. 10		
Nature of Interest in the	8	Provide the nature of the interest in the land associated with the proposed undertaking, including:	8	Provide the nature of the interest in the land associated with the proposed undertaking, including:	Y		See Document List (Att. 3.1)	190502-2AM-MRY1325-Amend2- Applic-Att-2-Applic	Att. No. 2 (s. 6)		
Land	а	Sub-surface leases from Nunavut Tunngavik Incorporated (NTI) and/or Indian and Northern Affairs Canada (INAC) as well as surface authorizations from INAC for crown land use, a Designated Inuit Organization (DIO) for Inuit Owned Land (IOL) use, or the Government of Nunavut for Commissioner's land use. Provide the permit or licence numbers.	а	Sub-surface leases from Nunavut Tunngavik Incorporated (NTI) and/or Indian and Northern Affairs Canada (INAC) as well as surface authorizations from INAC for crown land use, a Designated Inuit Organization (DIO) for Inuit Owned Land (IOL) use, or the Government of Nunavut for Commissioner's land use. Provide the permit or licence numbers.			See Document List (Att. 3.1)	190502-2AM-MRY1325-Amend2- Applic-Att-2-Applic	Att. No. 2 (s. 6)		
	b	The date or expected date of issuance of any authorization and the date of expiry.	b	The date or expected date of issuance of any authorization and the date of expiry.	Y		See Document List (Att. 3.1)	190502-2AM-MRY1325-Amend2- Applic-Att-2-Applic	Att. No. 2 (s. 6)		
	9	Indicate whether the applicant is the name of the entity holding the authorization for the interest in the land and if not, provide the name of the entity holding the authorization.	9	Indicate whether the applicant is the name of the entity holding the authorization for the interest in the land and if not, provide the name of the entity holding the authorization.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Att-2-Applic	Att. No. 2 (s. 6)		
NPC Determination	10	Provide written confirmation from the NPC confirming that NPC's requirements under the NLCA regarding land use plan conformity (Article 11 of the NLCA) have been addressed.	10	Provide written confirmation from the NPC confirming that NPC's requirements under the NLCA regarding land use plan conformity (Article 11 of the NLCA) have been addressed.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Att-4	Att. No. 4		
NIRB Determination	11 a	Provide written confirmation from the NIRB confirming that NIRB's requirements under the NLCA regarding development impact assessment (Article 12 of the NLCA) have been or are in the process of being addressed. Documentation may include:  Written confirmation from NIRB that the project proposal	11 a	Provide written confirmation from the NIRB confirming that NIRB's requirements under the NLCA regarding development impact assessment (Article 12 of the NLCA) have been or are in the process of being addressed. Documentation may include:  Written confirmation from NIRB that the project proposal							
		does not require screening;  NIRB's screening determination;	b	does not require screening;	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Att-4	Att. No. 4		
	C	If a review is required, NIRB's recommendation to the Minister regarding the type of review;	С	If a review is required, NIRB's recommendation to the Minister regarding the type of review;							
	d	If a review is required, the Minister's written decision regarding the review of the development proposal;	d	If a review is required, the Minister's written decision regarding the review of the development proposal;							
	12	If a review is required, NIRB's project certificate; Provide a list of activities requested for exception in accordance with NLCA s. 12.10.2;	12	If a review is required, NIRB's project certificate; List of activities requested for exception in accordance with NLCA s. 12.10.2;	N/A	None requested					
	13	Indicate whether any Type B water licence application is for an activity to be considered for interim, short term approval in accordance with NLCA s. 13.5.5.	13	Indicate whether any Type B water licence application is for an activity to be considered for interim, short term approval in accordance with NLCA s. 13.5.5.	N/A	Baffinland is seeking a modification to its existing Type A Water Licence					

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

## UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

Section Title	Section No.	Information Requirement General Water Works	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y'or'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert <u>electronic file name of</u> <u>document</u> where information is provided	Insert <u>Section of</u> document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Description of Undertaking	14	Provide a complete description of the undertaking with detailed site plan(s) of all infrastructure. Differentiate any temporary components from permanent components. Consider the following in providing the description:	14	See section 4 of this SIG for specific requirements. (Section 4.0 Project Description	Y		TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project- Description_Rev_1	All		
							See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	All		
	а	Camp (see the NWB's SIG for Tourist / Remote Camps (R1));			Y		Same as above	Same as above	Sections 2.5, 2.11, 4.6		
	b	Transportation access routes;			Y		Same as above	Same as above	Section 3		
	<u> </u>				Y		Same as above Same as above	Same as above Same as above	Sections 2.9, 4.8 Section 2.7		
	e	Existing on site infrastructure;			Y		TSD-2 Project Description, Baffinland, Sept 2018	08MN053_TSD-02_Project- Description	Sections 2, 3, 4		
	f	Water intake			Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Sections 2.9, 2.10, 3		
		Water storage			Y		Same as above	Same as above	Sections 2.9, 2.10, 3		
	<u>h</u>	Water distribution			Y		Same as above	Same as above	Section 2.9, 2.10, 3		
		Bridges			Y		Same as above	Same as above	Section 2.5, Attachment		
	. j	Culverts			Y		Same as above	Same as above	Section 2.5, Attachment 13		
	<u>k</u>	Pipelines Channel / bank alterations			Y		Same as above	Same as above	Section 4.7 Section 2.5; Attachment		
	'	Spurs			Y N/A		Same as above	Same as above	13		
	m n				N/A V		Same as above	Same as above	Section 2.11		
	0	Artificial accretion			N/A		came de above	Samo de abore	0000011 2.111		
	р	Ditches			Y		Same as above	Same as above	Attachments 11, 12, 14, 15		
	q	Dikes			Υ		Same as above	Same as above	Section 2.5		
	r	Dams			Y		Same as above	Same as above	Sections 2.5, 2.11, 3.6; Attachments 14 and 15		
	s	Spillways			Y		Same as above	Same as above	Attachments 14 and 15		
	t	Berms			Y		Same as above	Same as above	Attachments 14 and 15		
011 4 11 11		Cofferdams			Y		Same as above	Same as above	Section 2.5		
Other Applicable Supplemental	15	Indicate whether any other Supplemental Information Guidelines apply to the undertaking including the following:	15	Indicate whether any other Supplemental Information Guidelines apply to the undertaking including the following:							
Information Guidelines		Hydrostatic testing	а	Hydrostatic testing	N/A	No hydrostatic testin		•			
Culdelliles		Tannery Tourist / remote camp	b	Tannery Tourist / remote camp	N/A N/A	No tannery is propose This is an operating					
		Landfarm and on-site storage of hydrocarbon contaminated	d d	Landfarm and on-site storage of hydrocarbon contaminated	N/A N/A						
		soil		soil		No modifications are	* *	proposed			
		Onshore oil and gas exploration drilling Mineral exploration/ remote camp	e f	Onshore oil and gas exploration drilling  Mineral exploration/ remote camp	N/A N/A	This is an operating	gas exploration drilling is	proposed			
		Advanced exploration		Advanced exploration	N/A	This is an operating					
		Mine development	h	Mine development	Y		ent SIG has been used				
		Municipal	i	Municipal	N/A	This is a mining proj					
		General Water Works	<u> </u>	General Water Works	Υ	The General Water	Works SIG has been use	d			
Ontions		Power	16 k	Power	N/A Y		TCD 01 Alt		ļ		
Options	16	Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.	16	Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.	Y		TSD-01 Alternatives Analysis, Baffinland, August, 2018	08MN053_TSD-01_Alternatives- Analysis	All		

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### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

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Water Use Water Use: Quality and Quantity	18	See section 5 of this SIG for specific requirements See section 5 of this SIG for specific requirements	17 18	See section 6 of this SIG for specific requirements See section 6 of this SIG for specific requirements							
Waste Disposal	19	Provide a detailed description of all types of waste and all forms of waste disposal including: (see the NWB definition of Waste in the NWB <u>Guide 2: Terminology and Definitions</u> )	19	See section 7 of this SIG for specific requirements	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 4; Attachment 2, Section 14		
	а	Dredged material			Y		TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project- Description_Rev_1	Section 4.2		
	b	Hazardous waste including waste oil					See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Sections 4.5 and 4.6		
					Y		Hazardous Materials & Waste Management Plan, Baffinland, 2019	210917-2AM-MRY1325-Amend2- Applic-Att-25-Haz-Mat-Waste-Plan	All		
	С	Discharge from dewatered areas			Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 2.5		
Waste Disposal:	20	For each type of waste, provide the composition, chemical	20	See section 7 of this SIG for specific requirements			Same as above	Same as above	Section 4.4		
Quality and Quantity		characteristics and quantity generated. Also provide the location, rate, timing, frequency and duration of the deposit.			Y		Same as above	Same as above	Section 4		
	21	For each type of waste, provide the proposed methods and					Same as above	Same as above	Section 4		
		processes for collecting, storing, treating and discharging the waste. Indicate the capacity of these facilities.			Y		Same as above	Same as above	Section 4		
	22	Provide a description of any measures to minimize the production of wastes.			Y		Waste Management Plan, Baffinland, 2020	210917-2AM-MRY1325-Amend2- Applic-Att-24-Waste-Mgnt-Plan	Section 3.4		
Other Authorizations	23	Provide a list of any authorizations required in relation to the project in addition to the water licence. For each additional authorization required for the project, provide the name of the authorization, the administering agency, the project activity requiring the authorization, the date or expected date of issuance and the date of expiry. Provide a description of how those authorizations may affect the NWB's water licensing process.	21	Provide a list of any authorizations required in relation to the project in addition to the water licence. For each additional authorization required for the project, provide the name of the authorization, the administering agency, the project activity requiring the authorization, the date or expected date of issuance and the date of expiry. Provide a description of how those authorizations may affect the NWB's water licensing process.	Y		Addendum to the FEIS for the Phase 2 Proposal, Baffinland, 2018	_08MN053_mrp2_eis_rev01	Section 3.6		
			22	Indicate whether an authorization has been obtained or sought from the Department of Fisheries and Oceans for dewatering or using any waterbodies for containment of waste		No waterbodies will be dewatered for waste containment					
	24	Provide formal applications to the Navigable Waters Protection Program (NWPP) for any works if applicable.	23	Provide formal applications to the Navigable Waters Protection Program (NWPP) for any works.	Y					Upon completion of NIRB reconsideration	
	25	Provide a timetable for filing the appropriate plans and procedures required by government parties.	24	Provide a timetable for filing the appropriate plans and procedures required by government parties.	Y						
	26	Indicate whether the applicant / licensee holds any existing water licences. If applicable, provide the licence number and expiry date of any existing water licences.	25	Indicate whether the applicant/ licensee holds any existing water licences. If applicable, provide the licence number and expiry date of any existing water licences.	Y		Type A Water Licence 2AM-MRY1325 Type B Water Licence 2BE-MRY1421	N/A			

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Predicted Environmental	27	Identify the potential effect of water use and waste disposal on the following components:	26	Identify the potential effect of water use and waste disposal on the following components:							
Effect and Proposed mitigation measures	a	Groundwater and Surface Water including:  changes in flow (including seasonal rate of flow) quantity quality	a	Groundwater and Surface Water including:  changes in flow (including seasonal rate of flow) quantity quality	Y		TSD-13 Surface Water Assessment, Knight Piésold Ltd., October 3, 2018	08MN053_TSD-13_Surface- Water_rev01	All		
	b	Land including: geologic structure change soil contamination compaction, settling and erosion alteration of the permafrost regime	b	Land including: geologic structure change soil contamination compaction, settling and erosion alteration of the permafrost regime	Y		TSD-08 Landforms, Soils and Permafrost Assessment, Knight Piésold, July 24, 2018	08MN053_TSD-08_Landforms-Soil- and-Permafrost_rev01	All		
		riparian zone loss		riparian zone loss	N/A	No riparian zone loss anticipated from water use and waste disposal.					
	С	Vegetation including: species composition and abundance non-native species introduction accumulation of toxins and heavy metals (in relation to remediation objectives for closure)	С	Vegetation including: species composition and abundance non-native species introduction accumulation of toxins and heavy metals (in relation to remediation objectives for closure)	Y		TSD-09 Vegetation Baseline and Impact Assessment, EDI, July 2018	08MN053_TSD-09_Vegetation- Baseline-and-Impact- Assessment_Rev_1	All		
	d	Aquatic Ecosystems including: fish benthic invertebrates plankton	d	Aquatic Ecosystems including: fish benthic invertebrates plankton	Y		TSD-14 Freshwater Fisheries Assessment, North South Consultants, Sept 2018	08MN053_TSD-14-Freshwater-Biota- Habitat_Rev_1	All		
	28	Identify effects separately for each project phase.	27	Identify effects separately for each project phase.	Y		Phase 2 Proposal - Addendum to the Final Environmental Impact Statement, Baffinland, Sept 2018	08MN053_mrp2_eis_Rev_1	Section 10		
	29	Provide a description of the methods used to predict effects.	28	Provide a description of the methods used to predict effects.	Y		Same as above	Same as above	Section 9		
	30	Provide a cumulative effects assessment of the project's water use and waste disposal activities in combination with other past, present and reasonably foreseeable projects in the same drainage basin.	29	Provide a cumulative effects assessment of the project's water use and waste disposal activities in relation to other activities in the same drainage basin.	Y		TSD-27 Cumulative Environmental Effects and Transboundary Effects, Baffinland, Sept 2018	08MN053_TSD-27_Cumulative- Transboundary_Rev_1	Section 1		
	31	Identify effects that may arise from accidental events or malfunctions.	30	Identify effects arising from accidental events or malfunctions.	Y		Phase 2 Proposal - Addendum to the Final Environmental Impact Statement, Baffinland, Sept 2018	08MN053_mrp2_eis_Rev_1	Section 10.2		
	32	Provide a description of all proposed mitigation, management and monitoring programs to mitigate adverse impacts.	31	Provide a description of all proposed mitigation, management and monitoring programs to mitigate adverse impacts.	Y		Updated Application for Amendment No. 2 of Type A Water Licence 2AM-MRY1325, Knight Piésold, May 2, 2019	190502-2AM-MRY1325-Amend2- Applic-Att-20-ERP 190502-2AM-MRY1325-Amend2- Applic-Att-21-SCP 190502-2AM-MRY1325-Amend2- Applic-Att-22-SWAEMP 190502-2AM-MRY1325-Amend2- Applic-Att-23-FWSW 190502-2AM-MRY1325-Amend2- Applic-Att-24-Waste-Mgnt-Plan 190502-2AM-MRY1325-Amend2- Applic-Att-25-Haz-Mat 190502-2AM-MRY1325-Amend2- Applic-Att-26-Quarry 190502-2AM-MRY1325-Amend2- Applic-Att-28-EPP 190502-2AM-MRY1325-Amend2- Applic-Att-29-ICRP 190502-2AM-MRY1325-Amend2- Applic-Att-38-EPP 190502-2AM-MRY1325-Amend2- Applic-Att-31-WR 190502-2AM-MRY1325-Amend2- Applic-Att-31-WR 190502-2AM-MRY1325-Amend2- Applic-Att-31-WR	All		

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Predicted Environmental Effect and Proposed mitigation measures		Provide a description of the measures to be taken to mitigate impacts on historical resources or traditional uses of water and procedures to be followed should artifacts be discovered.		Provide a description of the measures to be taken to mitigate impacts on historical resources or traditional uses of water and procedures to be followed should artifacts be discovered.	Y		TSD-25 Socio- Economic Assessment, Baffinland, Sept 2018	08MN053_TSD-25_Socio-economic- Assessment_Rev_1	Section 9		
		If applicable, provide a description of any potential transboundary effects.		If applicable, provide a description of any potential transboundary effects.	Y		TSD-27 Cumulative Environmental Effects and Transboundary Effects, Baffinland, Sept 2018	08MN053_TSD-27_Cumulative- Transboundary_Rev_1	Section 2		
	35	See sections 4, 5 and 6 of this SIG for additional information requirements	34	See sections 5, 6, 7, and 8 of this SIG for additional information requirements							
Existing and Other User Water Rights		Provide the names, addresses, and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.	35	Provide the names, addresses, and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Att-2-Applic	Section 18		
	37	Provide a description of any potential effects of the project on the persons or properties identified in item 36 of this section.	36	Provide a description of any potential effects of the project on the persons or properties identified in item 35 of this section.	Y		TSD-25 Socio- Economic Assessment, Baffinland, Sept 2018	08MN053_TSD-25_Socio-economic- Assessment_Rev_1	Section 9		
		Provide a description of the measures incorporated into the project design to mitigate effects of the project on the persons or properties identified in item 36 of this section.	37	Provide a description of the measures incorporated into the project design to mitigate effects of the project on the persons or properties identified in item 35 of this section.	Y		Same as above	Same as above	Same as above		
	39	Indicate whether compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.	38	Indicate whether compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 19		
Inuit Water Rights	40	Provide a description of any potential effects of the project on the quality, quantity, or flow of waters flowing through Inuit Owned Land (IOL).	39	Provide a description of any potential effects of the project on the quality, quantity, or flow of waters flowing through Inuit Owned Land (IOL).	Y		TSD-13 Surface Water Assessment, Knight Piésold Ltd., October 3, 2018	08MN053_TSD-13_Surface- Water_Rev_1	All		
		Provide a description of the measures incorporated into the project design to mitigate effects of the project on the quality, quantity, or flow of waters flowing through IOL.		Provide a description of the measures incorporated into the project design to mitigate effects of the project on the quality, quantity, or flow of waters flowing through IOL.	Y		Same as above	Same as above	Same as above		
		Indicate whether an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO); or if the parties have been unable to reach an agreement on compensation		Indicate whether an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO); or if the parties have been unable to reach an agreement on compensation	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Att-2-Applic	Section 19		
Consultation		Provide a summary of any consultation meetings including when the meetings were held, where and with whom.	42	Provide a summary of any consultation meetings including when the meetings were held, where and with whom.	Y		TSD-04 Public Consultation, Baffinland, Sept 2018	08MN053_TSD-04_Public- Consultation_Rev_1	Sections 3, 4		
	44	Provide a summary of the results of consultation meetings including a list of concerns expressed and measures proposed to address concerns.	43	Provide a summary of the results of consultation meetings including a list of concerns expressed and measures proposed to address concerns.	Y		Same as above	Same as above	Same as above		
Security	45	Provide a financial security assessment that includes the following:	44	Provide a financial security assessment that is prepared in a manner consistent with principals respecting mine site reclamation and implementation found in the <u>Mine Site</u> <u>Reclamation Policy for Nunavut</u> , Indian and Northern Affairs Canada, 2002. The financial security assessment must include:	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 7		
	а	An estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking;	а	An estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking;	Y		Same as above	Same as above	Same as above		
	b	The cost of having the necessary reclamation work done by a third-party contractor if the operator defaults;	b	The cost of having the necessary reclamation work done by a third-party contractor if the operator defaults;	Y		Same as above	Same as above	Same as above		
	С	Contingency factors appropriate to the particular work to be undertaken.	С		Y		Same as above	Same as above	Same as above		

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

					Indicate whether		Insert Title, Author		Income O. III	If information is not	
Section Title	Section No.	Information Requirement General Water Works	Section No.	Information Requirement Mine Development	Information Requirement is applicable by inserting 'Y'or'NA'	If 'NA' provide justification	and Date of Document where information is provided	Insert <u>electronic file name of</u> <u>documen</u> t where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Abandonment and Restoration	46	Provide plans for the abandonment and restoration of facilities.		Provide plans for the abandonment and restoration of the project. Plans must address all phases of the project including construction, operation, care & maintenance, final closure and post closure. Detail the costs to carry out the plan, and a proposal for financial assistance which covers the costs to carry out the plan.	Y		Same as above	Same as above	Same as above		
				Provide a description of all remediation plans and remediation objectives. Discuss the results of any human health and ecological risk assessment used to establish remediation objectives.	Y		Same as above	Same as above	Same as above		
	47	Provide a list and description of any existing abandoned or restored site facilities.		Provide a list and description of any existing abandoned or restored site facilities.	Y		Same as above	Same as above	Same as above		
			48	Provide details regarding the timing of the removal of any dewatering dikes (if applicable) and the implications of this	Y		Same as above	Same as above	Same as above		
			49	Provide detailed information regarding the method used to remove/breach any dewatering dykes (if applicable),	Y		Same as above	Same as above	Same as above		
Financial Information	48	Provide a statement of financial responsibility.	50	Provide a statement of financial responsibility.	Y	Baffinland is not an entity that publicly discloses audited financial statements.	NWB is aware of Baffinland's current financial security established for the Project	N/A	N/A		
		If the applicant is an entity for which audited financial statements are issued, a copy of the most recent audited financial statements must be attached to the statement of financial responsibility.		If the applicant is an entity for which audited financial statements are issued, a copy of the most recent audited financial statements must be attached to the statement of financial responsibility.	N/A	Baffinland is not an entity that publicly discloses audited financial statements.	NWB is aware of Baffinland's current financial security established for the Project	N/A	N/A		
	50	Provide the name of the corporation, limited company or other business entity, with a list of the officers of the company and a copy of the Certificate of Incorporation or evidence of registration of the company name.	52	Provide the name of the corporation, limited company or other business entity, with a list of the officers of the company and a copy of the Certificate of Incorporation or evidence of registration of the company name.	Y		Baffinland Iron Mines Corporation – Officers; Baffinland, May 2, 2019	210917-2AM-MRY1325-Amend2- Applic-Att-6-Proponent-Info	All		
Studies and Designs	51	Provide a list of studies, reports and plans relevant to the application that have been undertaken to date including:	53	Provide a list of studies, reports and plans relevant to the application that have been undertaken to date including:							
	a	Design rational, design requirements, design criteria, design parameters, design standards/analysis/method;  Design assumptions and the limitations associated with	a	Design rational, design requirements, design criteria, design parameters, design standards/analysis/method;	Y		Mary River Expansion Project – Design Criteria: Civil Design Philosophy, Hatch, Mar 12, 2018 Mary River Expansion Project – Railway Design Criteria and Design Rational, Hatch, Nov 27, 2017 Mary River Expansion Project – Geotechnical Design Basis, Hatch, July 5, 2018	210917-2AM-MRY1325-Amend2- Applic-Att-7.1-Civil-Design-Criteria 210917-2AM-MRY1325-Amend2- Applic-Att-7.2-Rail-Design-Criteria 210917-2AM-MRY1325-Amend2- Applic-Att-7.3-Geotech-Design-Basis	All		
	b	such design assumptions;	b	Design assumptions and the limitations associated with such design assumptions;	Y		Same as above	Same as above	Same as above		
	С	The inclusion of clear, definable engineering qualifiers with all design drawings and reports;		The inclusion of clear, definable engineering qualifiers with all design drawings and reports;	Y		Same as above	Same as above	Same as above		
	d	Site specific data and analysis to support the design and management decisions made;	d	Site specific data and analysis to support the design and management decisions made;	Y		Same as above	Same as above	Same as above		
	е	Materials that appropriately delineate the particulars of a design or plan.	е	Materials that appropriately delineate the particulars of a design or plan.	Y		Same as above	Same as above	Same as above		
Studies and Designs	52	Provide construction methods and procedures regarding how infrastructure will be put in place on-site.		Provide construction methods and procedures regarding hov infrastructure will be put in place on-site.	Y		TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project- Description_Rev_1	Section 2, 3, 4 and 5		
	53	Provide a timetable for submission of preliminary and final- for-construction engineered designs (note: for construction designs are required for NWB approvals). See sections 4 and 5 of this SIG for additional information	55 56	Provide a timetable for submission of preliminary and final- for-construction engineered designs (note: for construction designs are required for NWB approvals). See sections 5, 6 and 7 of this SIG for additional information	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 9		
		requirements.		requirements							
Proposed Time Schedule	55	Provide the proposed start and completion dates for each phase of development (construction, operation, closure) and any anticipated periods of seasonal shut down.		Provide the proposed start and completion dates for each phase of development (construction, operation, closure and post closure) and any anticipated periods of seasonal shut down.	Y		TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project- Description_Rev_1	Section 1.2.5		

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

## UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

Section Title	Section No.	Information Requirement General Water Works	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y'or'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert <u>electronic file name of</u> <u>document</u> where information is provided	Insert <u>Section of</u> document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Proposed Term of Licence		Provide a proposed term of licence including the expected date of licence issuance and the expected date of licence expiry.		Provide a proposed term of licence including the expected date of licence issuance and the expected date of licence expiry.	Y		No change to the current Licence term requested.	N/A	N/A		
Annual Reporting	57 a	Provide detailed information regarding the content of annual reports and a proposed outline or template of the annual report. The annual report should include the following:  Water related monitoring results;		Provide detailed information regarding the content of annual reports and a proposed outline or template of the annual report. The annual report include the following:  Water related monitoring results;		Baffinland currently submits annual reports to the NWB. Please see the	2020 Qikiqtani Inuit Association (QIA) and Nunavut Water Board (NWB) Annual Report				
	b	with the water quality and quantity predictions presented in the application;		Comparison of water quality and quantity monitoring data with the water quality and quantity predictions presented in the application;  A description of how the conditions in the NIRB project	N/A	2020 Annual Report for required information.	for Operations; Baffinland, March 2021	https://www.baffinland.com/ resource s/document portal/2020-Mary-River- QIA-NWB-Annual-Report-for-	All		
	d	decision related to the NWB mandate have been implemented;  Project changes under adaptive management;	d	certificate related to the NWB mandate have been implemented;  Project changes under adaptive management;				Operations.pdf			
	е	Any actions taken in response to direction provided by the Inspector.		Any actions taken in response to direction provided by the Inspector.							
Renewals and Amendments		If the application is for a renewal or amendment of an existing licence provide the water licence number and the date of water licence expiry.		If the application is for a renewal or amendment of an existing licence provide the water licence number and the date of water licence expiry.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Att-2-Applic	Attachment 2 (s. 25)		
	59	If the application is for a renewal or amendment of an existing licence, provide a compliance assessment/status report. This report must document the status of compliance for each condition of the existing water licence taking into consideration inspector dialogues and inspector directions, responses to inspector dialogues and inspector directions, spills that may have occurred, and any reporting requirements. The report must indicate when facilities were inspected by regulatory agencies and list any spills that may have occurred including a description, location shown on a map, and the action taken to address the affected area.		If the application is for a renewal or amendment of an existing licence, provide a compliance assessment/status report. This report must document the status of compliance for each condition of the existing water licence taking into consideration inspector dialogues and inspector directions, responses to inspector dialogues and inspector directions, spills that may have occurred, and any reporting requirements. The report must indicate when facilities were inspected by regulatory agencies and list any spills that may have occurred including a description, location shown on a map, and the action taken to address the affected area.	Y		Table 5.1 Compliance Assessment; Table 5.2 Status of Resolution of Non-Compliant Items; Knight Piésold, Sept 17, 2018	210917-2AM-MRY1325-Amend2- Applic-Att-5-Compliance-Rpt	Attachment 5		

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

### ATTACHMENT 3.2 - SUPPLEMENTAL INFORMATION GUIDELINES (SIG) CONCORDANCE PROJECT DESCRIPTION

Section Title	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y' or' NA'	If 'NA' provide justification	Insert <u>Title</u> , <u>Author and Date of</u> <u>Document</u> where information is provided	Insert <u>electronic file name of documen</u> t where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NIRB Guideline Section No.
Description of Undertaking	1	Provide a complete description of the undertaking with detailed site plan(s) of all project infrastructure for the Local Project Area (LPA) and/or the Regional Project Area (RPA), where applicable. Include maps and/or aerial photos with scales that allow the determination of distances between the objects depicted. Differentiate any temporary components from permanent components. Consider the following in providing the description:	Υ		TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	All		
	а	Raw water intake;	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt	Section 3		
	b	Water storage and treatment facilities including distribution systems;			TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	Section 2.5, 4.6		
		·	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt	Sections 2.6, 2.8, 3.7, 4.6, 4.7		
	С	Existing water bodies/courses and any changes to these water bodies/courses that may have or may occur as a result of water use or waste disposal facilities. Provide an outline of the drainage basin and drainage patterns within the RPA;	Υ		TSD-13 Surface Water Assessment, Knight Piésold, October 3, 2018	TSD-13-Surface-Water_Rev_1	Section 2		
	d	Location of receiving water bodies and drainage pathways;	Υ		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt 210917-2AM-MRY1325-Amend2-Applic-Att-10- Detailed-Rail-Figs 210917-2AM-MRY1325-Amend2-Applic-Att-14.2- Mine-Water-Mgnt-Plan 210917-2AM-MRY1325-Amend2-Applic-Att-15.3- Port-Water-MgmtPlan	Section 3.6; Attachments 10, 14.2, 15.3		
	е	Transportation access routes and details of water course crossings;	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt 210917-2AM-MRY1325-Amend2-Applic-Att-10- Detailed-Rail-Figs	Section 2.5; Attachment 10		
	f	Locations of environmental monitoring sites;	Υ		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt	Section 6, Figures 6.1 and 6.2		
	g	Traditional water use and land use areas that may be impacted by the project;	Y		TSD-25 Socio-Economic Assessment, Baffinland, August 2018	08MN053_TSD-25_Socio-economic- Assessment_Rev_1	Section 9		
	h	Sewage treatment facilities;	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt	Section 4.7		
	i	Wastewater treatment area and discharge outlet locations;	Y		Same as above	Same as above	Sections 4.4, 4.6, 4.7		
	j	Solid waste disposal areas and drainage patterns;	Υ		Same as above	Same as above	Section 4.8		
	k	Incinerators	N/A	No modification are proposed in support of the Phase 2 Proposal	Waste Management Plan, Baffinland, 2021	190502-2AM-MRY1325-Amend2-Applic-Att-24- Waste-Mgnt-Plan	Section 3.5, Attachment 24		
	I	Landfarm (see the NWB's SIG for Landfarm and on-site storage of hydrocarbon contaminated soil (I3));	N/A	No modification are proposed in support of the Phase 2 Proposal	Hazardous Materials and Hazardous Waste Management Plan, Baffinland, 2020	20210917-2AM-MRY1325-Amend2-Applic-Att-25- Haz-Mat-Waste-Plan	Section 3.4		

# BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

# ATTACHMENT 3.2 - SUPPLEMENTAL INFORMATION GUIDELINES (SIG) CONCORDANCE PROJECT DESCRIPTION

Section Title	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting ' Y ' or ' NA '	If 'NA' provide justification	Insert <u>Title, Author and Date of</u> <u>Document</u> where information is provided	Insert <u>electronic file name of documen</u> t where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
	m	Waste rock piles (PAG and non-PAG);	N/A	No modification are proposed in support of the	Life of Mine Waste Rock Management Plan, Baffinland, 2014	210917-2AM-MRY1325-Amend2-Applic-Att-32- Ph1-Waste-Rock-Plan	Attachment 33			
			WA	Phase 2 Proposal	Phase 1 Waste Rock Management Plan, Baffinland, 2021	210917-2AM-MRY1325-Amend2-Applic-Att-33- LOM-Waste-Rock-Plan	Attachment 32			
Description of Undertaking	n	Stockpiles;	Υ		TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	Section 2.2; 4.4			
	О	Mill or processing plant;	Υ		Same as above	Same as above	Section 2.3; 4.4			
	р	Tailings containment areas;	N/A	No tailings generated						
	q	Laydown areas;	Υ		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt	Section 2.8, Figure 2.2			
	r	Quarries;	Υ		Same as above	Same as above	Section 2.7, Figure 2.1			1
	S	Hazardous waste disposal area;	Υ		Same as above	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt	Figures 6.1 and 6.2			
	t	Waste discharge distribution lines;	Υ		TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	App. A and B (figures)			
			-		See Document List (Att. 3.1)	200331-2AM-MRY1325-Amend2-Applic-Main-Rpt	Sections 3.6, 4.4, 4.7			
	u	Fuel and chemical storage;	Υ		TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	Section 2.9; 4.8			
					See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt	Section 5.3			
	V	Explosives manufacturing and storage;	Υ		TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	Section 2.9.2			
					See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt	Section 5.4			
	W	Abandoned and/or restored facilities;	N/A	There are no aba			T			<del>                                     </del>
	х	Existing on site infrastructure;	Υ		TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	All			
	У	Others:	N/A	All relevant information in TSD-02 Project Description	TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	All			
Mine Plan	2	Provide a Mine Plan Overview including:								1
	а	Description of the location, physical nature, geology and minerology of the ore deposit and host rock. (See section 5 items 19-23)	N/A	No change to ore						
	b	Mine development plan and methods	N/A	No change to mine plan	TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	Section 2.1			
	C	Exploration operations	Υ	No ob - · · · · · · ·	Same as above	Same as above	Section 9.0			<del> </del>
	d	Description of earthworks for mine development	N/A	No change to mine plan	TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	Section 2.1			
	e	Milling or processing plant operations including:  A copy of the mill or processing plant flow sheet. Indicate the points of addition of the various reagents (chemicals) that will be used.  The capacity of the mill  If applicable, indicate whether the (proposed) milling circuit is in whole or in part based on autogenous grinding.  Predicted rate of production.	Y	No milling or processing will occur; only crushing and screening	TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	Sections 2.2, 4.3, 4.4 and 4.5			
	f	Expected life of the mine.	Υ		TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	Section 1.2.5			
	g	Camp and mine site population projections for each phase of the project.	Υ		TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	Section 2.5, 4.6			

# BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

#### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

Section Title	Section No.	General Water Works	Section No.	Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y' or' NA'	If 'NA' provide justification	Insert <u>Title, Author and Date of</u> <u>Document</u> where information is provided	Insert <u>electronic file name of documen</u> t where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Environmental Setting	1	Provide a description of the site using current detailed topographic survey maps and/or aerial photos where applicable. Maps, diagrams, and aerial photos must include accurate scales that allow the determination of distances between the objects depicted.	1	Provide a description of the regional and local setting using maps and/or aerial photos with scales that allow the determination of distances between the objects depicted.	Y		TSD-2 Project Description, Baffinland, Sept, 2018	08MN053_TSD-02_Project-Description_Rev_1	Section 1; Figures 1.1, 1.2, 1.3, 1.4		
	2	Provide a description of the site history if it has been used in the past.	2	Provide a brief history of the property development which took place before the present company gained control of the site. Include shafts, adits, mills, waste dumps, chemical storage areas, tailings disposal areas, and effluent discharge locations. Make references to a detailed map.	N/A	The NWB is familia	or with the operating history of the				
	3	Provide a description of the site conditions, including:	3	Provide a description of the site conditions, including:							
	а		а		Y		FEIS, Baffinland, 2012	Volume 3	Volume 3, Section 1		
	b	topography	b	topography	Y		FEIS, Baffinland, 2012 TSD-08 Landforms, Soil and Permafrost Assessment, Knight Piésold, July 2018	Volume 6  08MN053_TSD-08_Landforms-Soil-and- Permafrost_Rev_1	Volume 6, Section 2 Section 2.1		
	_	geologic conditions	С	geologic conditions			FEIS. Baffinland. 2012	Volume 6	Volume 6, Section 2		
	·	geologio contaitorio	ľ	goodgio conditiono	Y		TSD-08 Landforms, Soil and Permafrost Assessment, Knight Piésold, July 2018	08MN053_TSD-08_Landforms-Soil-and- Permafrost_Rev_1	Section 2.1		
	d	hydrologic characteristics	d	hydrologic characteristics			FEIS, Baffinland, 2012	Volume 7	Volume 7, Section 2		
					Y		TSD-13 Surface Water Assessment, Knight Piésold, October 3, 2018	08MN053_TSD-13_Surface-Water_Rev_1	Section 2; Appendix B		
	е	climate conditions and trends		climate conditions and predicted future climate trends	Y		Baffinland, August 2018	, 08MN053_TSD-06 _Climate-Change- Assessment_Rev_1	Section 3.4, 3.5, 3.6, 3.7 and 3.8		
	f	seismicity	е		Y		FEIS, Baffinland, 2012	Volume 6 Terrestrial Environment	Section 2		
	g	permafrost conditions	f	permafrost conditions	Y		FEIS, Baffinland, 2012 TSD-08 Landforms, Soil and Permafrost Assessment, Knight Piésold, July 2018	Volume 6  08MN053_TSD-08_Landforms-Soil-and- Permafrost_Rev_1	Volume 6, Section 2  Section 2.1		
							TSD-06 Climate Change Assessment Baffinland, August 2018	Assessment_Rev_1	Section 3.5		
	4	Provide a description of the surface water regime and drainage area. Outline the drainage basin on an attached map.	. 4	Provide a description of the regional and local surface water regime and drainage area and outline the drainage basin on an attached map.	Y		FEIS, Baffinland, 2012 TSD-13 Surface Water Assessment,	Volume 7	Volume 7, Sections 2 and 3		
			_				Knight Piésold, October 3, 2018	08MN053_TSD-13_Surface-Water_Rev_1	Section 2, 3		
			5	Provide a description of the groundwater regime.			FEIS, Baffinland, 2012	Volume 7	Volume 7, Sections 2 and 3		
			6	Provide baseline data and an evaluation of baseline data			FEIS, Baffinland, 2012	Volume 7	Volume 7, Section 3		
				describing surface and groundwater quality in the project area (physical, chemical, and biological characteristics).	Y		TSD-13 Surface Water Assessment, Knight Piésold, October 3, 2018	08MN053_TSD-13_Surface-Water_Rev_1	Section 3		
	5	Provide a description of the usual break-up and freeze-up	7	Provide a description of the usual break-up and freeze-up	Υ		FEIS, Baffinland, 2012	Volume 7	Volume 7, Section 2		
		periods.		periods.			,	Volume 8	Volume 8, Section 2	-	
	6	Provide a description of streambed material, streambank material, and streambank vegetation.	8	Provide a description of streambed material, streambank material, and streambank vegetation,							
	7	Indicate the slope of the banks of any water course affected by the application		Indicate the slope of the banks of any water course affected by the application	N/A		rossings are proposed with the Phase 2 sings are typical of those already in use				
	8	Provide a description of the meander pattern for any channel affected by the application	10	Provide a description of the meander pattern for any channel affected by the application  Provide the following streamflow data in cubic metres per			T				
		Provide the following streamflow data in cubic metres per second for each watercourse included in the application:  mean annual flow:	a	rrovide the following streamnow data in cubic metres per second for each watercourse included in the application:  mean annual flow;							
		mean summer flow;	b	mean summer flow;	1		TOD 42 Comf W. 1 . 4				
		minimum summer flow;		minimum summer flow;	Y		TSD-13 Surface Water Assessment, Knight Piésold, October 3, 2018	08MN053_TSD-13_Surface-Water_Rev_1	Appendix C		
		minimum annual flow;	d	minimum annual flow;			Kniight Plesold, October 3, 2018				
		mean annual flood;	е	mean annual flood;							
		maximum summer flood;		maximum summer flood;	-						
	g	mean summer flood;	g	mean summer flood;	i				L	L	1

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

#### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

ection Title	Section No.	General Water Works	Section No.	Mine Development	Indicate whether Information Requirement is applicable by inserting ' Y ' or ' NA '	If 'NA' provide justification	Insert <u>Title, Author and Date of</u> <u>Document</u> where information is provided	Insert <u>electronic file name of documen</u> t where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
nvironmental etting	10	Provide bathymetric information for water bodies affected by the application.		the application.	N/A	No new waterbodies	affected by the application				
	11	Provide a description of the ground condition for design and	13	Provide a description of the ground condition for design and			FEIS, Baffinland, 2012	Volume 6	Volume 6, Section 2		
		engineering of earthwork infrastructure (if applicable, provide test pit/ drill hole logs and laboratory test results).		engineering of earthwork infrastructure, including (if applicable provide test pit/ drill hole logs and laboratory test results):	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Att-8 (Attachment 8.1-8.15)	Attachment 8		
				Interim and permanent waste rock facilities	N/A		facilities will be used				
			I	Tailings containment area	N/A	The Project does no	t generate tailings				
			(	Landfills	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt	Section 4.8		
			(	d Landfarms	N/A	No new landfarms proposed	Same as above	210917-2AM-MRY1325-Amend2-Applic-Att-19- Landfarm-OMM-Manual	All		
				Fuel and chemical storage facilities	Y		Same as above	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt 210917-2AM-MRY1325-Amend2-Applic-Att-17.1- Mine-Tank-Farm 210917-2AM-MRY1325-Amend2-Applic-Att-17.2- Mine-Tank-Farm-Dwg	Attachment 17		
				f Explosives management areas and facilities	Y		Same as above	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt	Section 5.4		
			9	Roads	Υ		Same as above	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt Attachment 12: 8 documents, See Document List (Att 3.1) for file names	Section 2.4 and Attachment 12		
			ı	Quarries or borrow pits	Y		Same as above	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt	Section 2.7, Figure 2.1		
				i Hazardous waste facilities	Y		Same as above	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt	Section 4.5		
				j Wastewater treatment facilities	Y		Same as above	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt Attachment 18 - See Document List (Att 3.1) for file names	Section 4.7 Attachment 18		
				k Ore stockpiles	N/A			210917-2AM-MRY1325-Amend2-Applic-Main-Rpt Attachment 8 - See Document List (Att 3.1) for file names	Section 2.6 All		
				Overburden piles	N/A		e rock (including overburden)				
				Dewatering dikes Provide results of any assessment of the permeability of any	N/A	No dewatering dyke	S				
			14	faults and taliks beneath water bodies.	N/A	No project activities	within water bodies with taliks				
	12	Provide a description of the historical uses of the waters affected by the project.	15	Provide a description of the historical uses of the waters affected by the project.	Y		FEIS, Baffinland, 2012	Volume 4	Volume 4, Section 10 and Appendix 4C		
	13	Provide a description of any traditional uses of water in the project area.	16	Provide a description of any traditional uses of water in the project area.	Y		Same as above	Same as above	Same as above		
	14	Indicate whether fish, shellfish, or other wildlife are present and harvested in or near the project area and, if applicable, indicate the species harvested and the level of harvest.	17	Indicate whether fish, shellfish, or other wildlife are present and harvested in or near discharge areas and, if applicable, indicate the species harvested and the level of harvest.	Υ		Same as above	Same as above	Same as above		
	15	Provide a description of the results of any consultation with Elders regarding the collection of baseline data.	18	Provide a description of the results of any consultation with Elders regarding the collection of baseline data.	Y		TSD-04 Public Consultation, Baffinland, Sept 2018	08MN053_TSD-04_Public-Consultation_Rev_1	Section 3, 4		

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

#### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

Section Title	Section No.	Information Requirement General Water Works	Section No.	Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y' or' NA'	If 'NA' provide justification	Insert <u>Title, Author and Date of</u> <u>Document</u> where information is provided	Insert <u>electronic file name of documen</u> t where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	WB Concordance Assessment
Geology and Mineralogy			20	Provide a description of the physical nature of the mineralization, including known dimensions and approximate shape  Provide a description of the host rock in the general vicinity of the mineralization (from the outflood to the mineralization).		Project is an already operating mine, mining the current Deposit No.					
			21	the mineralization (from the surface to the mineralized zone)  Provide a geological description of the mineralized zone. (If possible, include the percentage of metals)  Provide a description of the geochemical tests which have		'					
			22	been (or will be) performed on the ore, host rock, and waste rock to determine their relative acid generation and contaminant leaching potential. Outline methods used (or to be used) and provide test results in an attached report (i.e., static	N/A						
				test, kinetic tests).  Provide an estimate of the percentage of sulphide in the mineralization including:  Pyrite							
			С	Pyrrhotite Pyrite / Pyrrhotite mixture							
	16	Provide a description of the geochemical tests which have been (or will be) performed on quarry or borrow material to determine the relative acid generation and contaminant leaching potential. Outline methods used (or to be used) and provide test results in an attached report (i.e static test, kinetic tests).		Arsenopyrite  Provide a description of the geochemical tests which have been (or will be) performed on quarry or borrow material to determine the relative acid generation and contaminant leaching potential. Outline methods used (or to be used) and provide test results in an attached report (i.e static test, kinetic tests).	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Main-Rpt	Section 2.7		
Fisheries	17	The applicant is advised to consult with DFO regarding fish and fish habitat related issues and to visit DFO's website at http://www.dfo-mpo.gc.ca/habitat/habitat-eng.htm. Indicate whether the applicant has consulted with DFO and provide the results of any consultation.	25	The applicant is advised to consult with DFO regarding fish and fish habitat related issues and to visit DFO's website at http://www.dfo-mpo.gc.ca/habitat/habitat-eng.htm. Indicate whether the applicant has consulted with DFO and provide the results of any consultation.	Υ		TSD-04 Public Consultation, Baffinland, Sept 2018	08MN053_TSD-04_Public-Consultation_Rev_1	Section 3.4		
	18	If applicable, provide baseline data and an evaluation of baseline data describing fish and fish habitat in the project area	26	If applicable, provide baseline data and an evaluation of baseline data describing fish and fish habitat in the project area.	Y		FEIS, Baffinland, 2012	Volume 7	Volume 7, Appendix 7C		
	19 a	If applicable, provide a fisheries assessment including:  Detailed area description (including photographic record);	27 a	If applicable, provide a fisheries assessment including:  Detailed area description (including photographic record);							
	d	Description of fish habitat (including river or lake bottom substrates such as silt, sand, or cobble);  Presence of sensitive habitats (spawning, migration corridors etc.);  Description of aquatic and riparian vegetation;  Fish community and lifestage present;	b c	Description of fish habitat (including river or lake bottom substrates such as silt, sand, or cobble);  Presence of sensitive habitats (spawning, migration corridors etc.);  Description of aquatic and riparian vegetation;  Fish community and lifestage present;	Y		TSD-14 Freshwater Biota and Habitat Assessment, North/South Consultants, Sept 2018	08MN053_TSD-14-Freshwater-Biota- Habitat_Rev_1	All		
	f g h	Depth and width of watercourse;  Max/min water flows, currents, tides;  Turbidity and sediment loads (total suspended solids);  Sport, commercial, subsistence fishery present.	f g h	Depth and width of watercourse; Max/min water flows, currents, tides;							

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

#### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

Section Title	Section No.	Information Requirement General Water Works	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y' or' NA'	If 'NA' provide justification	Insert <u>Title</u> , <u>Author and Date of</u> <u>Document</u> where information is provided	Insert <u>electronic file name of documen</u> t where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Studies		Provide a list of baseline studies, reports and plans relevant to the application that have been undertaken to date or are being planned including:		Provide a list of baseline studies, reports and plans relevant to the application that have been undertaken to date including:							
	а	Geotechnical studies;	а	Geotechnical studies;	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Att-8 (Attachment 8.1-8.15)	Attachments 8.1 to 8.14		
	b	Geochemical studies;	b	Geochemical studies;	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2-Applic-Att-9 (Attachment 9.1-9.5)	Attachments 9.1 to 9.5		
	С	Water quality studies;	С	Water quality studies;	Υ		TSD-13 Surface Water Assessment, Knight Piésold, Aug 2018	08MN053_TSD-13_Surface-Water_Rev_1	Section 3		
	d	Hydrological and hydrogeological studies;	d	Hydrological and hydrogeological studies;	Y		TSD-13 Surface Water Assessment, Knight Piésold, Aug 2018	08MN053_TSD-13_Surface-Water_Rev_1	Appendix B		
	е	Traditional use studies;	е	Traditional use studies;	Υ		TSD-03 Phase 2 Workshops Report, Jason Prno Consulting Services Ltd., January 2017	08MN053_TSD-03_Phase-2-Community- Workshops-rpt_Rev_1	All		
	f	Aquatic studies;	f	Aquatic studies;	v		TSD-14 Freshwater Biota and Habitat Assessment, North/South Consultants, Sept 2018	08MN053_TSD-14-Freshwater-Biota- Habitat_Rev_1	All		
					ĭ		TSD-15 Freshwater Fish Habitat Offsetting Plan, Knight Piésold, June 2018	08MN053_TSD-15_Conceptual-Freshwater- Offsetting-Plan_Rev_1	All		
	g	Meteorological studies;	g	Meteorological studies;	Υ		TSD-07 Atmospheric Assessments, Knight Piésold, Aug 2018	08MN053_TSD- 07_Atmospheric_Assessments_Rev_1	All		

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

## UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

Section Title	Section No.	Information Requirement General Water Works	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y'or'NA'	If 'NA' provide justification	Insert <u>Title, Author and Date</u> of <u>Document</u> where information is provided	Insert <u>electronic file name of</u> <u>document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Water Use		Provide a detailed description of all types of water uses incuding: (See the NWB definition of "use" in the NWB Guide 2: Terminology and Definitions)	1	Provide a detailed description of all types of water uses including: (See the NWB definition of "use" in the NWB Guide 2 Terminology and Definitions). Categorize water consumption use(s) as either mining/industrial use and/or domestic use.	: Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 3		
	а	Obtain water for domestic purposes	а	Obtain water for domestic purposes	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Sections 3.3 to 3.5		
	b	Obtain water for industrial purposes	b	Obtain water for industrial purposes: - drilling - mill or processing plant - concrete production - explosives manufacture - ice road construction - other	Y		Same as above	Same as above	Same as above		
	С	To cross a water course	С	To cross a water course	Y		Same as above	Same as above	Section 2.5		
		To alter the flow of water, or store water	d	To alter the flow of water, or store water	Y		Same as above	Same as above	Sections 2.5 and 4.4		
	е	Flood control	е	Flood control	N/A	No flood control measures t	o be used.				
	f	To divert a watercourse	f	To divert a watercourse	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 2.5		
		To modify the bed or bank of a watercourse	g	To modify the bed or bank of a watercourse	Y		Same as above	Same as above	Same as above		
		Others:	h	Others:	N/A	No other water uses are con	ntemplated.	•	_		
Water Use: Quality and Quantity Water Intake	2	Provide the name of the primary water source(s) as well as the name of any alternative water source(s).	2	Provide the name of the primary water source(s) as well as the name of any alternative water source(s).	Y		See Document List (Att. 3.1)	190502-2AM-MRY1325-Amend2- Applic-Main-Rpt and Detailed Water Withdrawal Plan	Section 3 Attachment 16		
	3	Provide a description of the source(s) of water and the location of the water source(s) as shown on a map.	3	Provide a description of the source(s) of water and the location of the water source(s) as shown on a map.	Y		Same as above	Same as above	Same as above		
*Identify uses as either		Indicate the type of water source(s) as lake, river, well, or other type.	4	Indicate the type of water source(s) as lake, river, well, or other type.	Y		Same as above	Same as above	Same as above		
domestic or ndustrial**	5	Provide a description of the quality of the water from the source(s) for each season (summer, fall, winter, spring).	5	Provide a description of the quality of the water from the source(s) for each season (summer, fall, winter, spring).	Y		Same as above	Same as above	Same as above		
iluustriai	6	Provide the capacity of the water source(s).	6	Provide the capacity of the water source(s).	Y		Same as above	Same as above	Same as above		
		Provide the acquisition rate in cubic metres per day and cubic metres per year from each water source.	7	Provide the acquisition rate in cubic metres per day and cubic metres per year from each water source.	Υ		Same as above	Same as above	Same as above		
	8	Provide a description of the water intake method(s) including the intake facility, the operating capacity of the pump used, the details of any screening to exclude fish, and the distance the pump will be placed from the ordinary high water mark of the watercourse.	8	Provide a description of the water intake method(s) including the intake facility, the operating capacity of the pump used, the details of any screening to exclude fish, and the distance the pump will be placed from the ordinary high water mark of the watercourse.	Y		Same as above	Same as above	Same as above		
		Provide a description of the general condition of any existing water intake facility. Rate the condition of the facility as satisfactory or unsatisfactory and explain the rating.		Provide a description of the general condition of any existing water intake facility. Rate the condition of the facility as satisfactory or unsatisfactory and explain the rating.	Y		Same as above	Same as above	Same as above		
		Indicate whether water is drawn from the source(s) intermittently or continuously and if intermittently indicate during what months it is drawn and for what period it is drawn (days/weeks/months).	10	Indicate whether water is drawn from the source(s) intermittently or continuously and if intermittently indicate during what months it is drawn and for what period it is drawn (days/weeks/months).	Y		Same as above	Same as above	Same as above		
	11	Indicate the amount of water to be returned to the source(s).	11	Indicate the amount of water to be returned to the source.	Y		Same as above	Same as above	Same as above		
	12	Provide a description of the methods to ensure water returned to any source is of an acceptable quality.	12	Provide a description of the methods to ensure water returned to any source is of an acceptable quality.	Y		Same as above	Same as above	Same as above		
	13	to any source is of an acceptance quality.  Provide a description of any hydrostatic testing programs, including water sources, and treatment/disposal requirements. If applicable, refer to the NWB's SIG for Hydrostatic Testing.	13	Provide a description of any hydrostatic testing programs, including water sources, and treatment/disposal requirements. If applicable, refer to the NWB's SIG for Hydrostatic Testing.	N/A	Fuel tanks will be weld-teste	d using other methods	1	1		
			14	Indicate the quantities of water required for ice road construction and provide a description of the methods of ice road construction.	N/A	No ice roads will be constru	cted.				
		Provide a description of any measures to reduce water consumption.	15	Provide a description of any measures to reduce water consumption.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 3.5		

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

## UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

# ATTACHMENT 3.2 - SUPPLEMENTAL INFORMATION GUIDELINES (SIG) CONCORDANCE WATER USE

Section Title	Section No.	Information Requirement General Water Works	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y'or'NA'	If 'NA' provide justification	Insert <u>Title, Author and Date</u> of <u>Document</u> where information is provided	Insert <u>electronic file name of</u> <u>document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Water Storage	15	Provide a description of any water storage facilities including the type (reservoir/pond, storage tank), location, design, and the water storage volume in cubic meters.	16	Provide a description of any water storage facilities including the type (reservoir/pond, storage tank), location, design, and the water storage volume in cubic meters.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 3.7		
	16	If the water storage facility is a reservoir, indicate whether the reservoir is lined, the type of liner and when it was or will be installed.  Indicate whether a storage reservoir is created in a natural channel. If applicable, provide plan and profile drawings of the reservoir including the size of the drainage basin upstream of the reservoir, topographical plan showing the drainage area boundary, number of hectares flooded, surface area of the reservoir at full capacity, storage capacity, and details of shoreline protection.  Provide a plan showing representative cross sections of the	17	If the water storage facility is a reservoir, indicate whether the reservoir is lined, the type of liner and when it was or will be installed.  Indicate whether a storage reservoir is created in a natural channel. If applicable, provide plan and profile drawings of the reservoir including the size of the drainage basin upstream of the reservoir, topographical plan showing the drainage area boundary, number of hectares flooded, surface area of the reservoir at full capacity, storage capacity, and details of shoreline protection.  Provide a plan showing representative cross sections of the	N/A	No reservoir for water storage	ge.				
	19	reservoir.  Provide a description of the general condition of any existing water storage facility and provide an explanation if it is unsatisfactory.	20	reservoir.  Provide a description of the general condition of any existing water storage facility and provide an explanation if it is unsatisfactory.	N/A	Current water storage faciliti	ies are being maintained and use	ed during operations.			
Water Distribution	20	Provide a description of water distribution systems (ie. piped water, trucked) including the number of people on each system.	21	Provide a description of water distribution systems (ie. piped water, trucked).	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Sections 2.9 and 3.7		
	21	For each phase of development, calculate the total water consumed per day (L/day) by multiplying the estimated number of persons on the system by the estimated average water consumption (Litres/ capita/day). Calculate the total water consumed for each individual distribution system if more than one is used (ie, piped water, trucked water).			Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Sections 3.3, 3.4 and 3.5		
	22	Provide a description of the general condition of any existing water distribution system and provide an explanation if it is unsatisfactory.	22	Provide a description of the general condition of any existing water distribution system and provide an explanation if it is unsatisfactory.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 3.5		
Watercourse Crossings	23	Provide a description of any watercourse crossings including pipelines, bridges, culverts or roads and its purpose.	23	Provide a description of any watercourse crossings including pipelines, bridges, culverts or roads and its purpose.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt Attachment 13: 8 documents; see Document List (Att 3.1) for file names	Section 2.5, Attachment 13		
	24	Indicate whether a temporary detour road is required to construct the watercourse crossing. If applicable, provide a schematic drawing that shows the location of the proposed detour road, any watercourse crossings to be constructed to facilitate the detour road, and the type of crossing.			N/A	No detour roads required.					
	25	Provide a plan of any watercourse crossing showing cross section and elevations.	24	Provide a plan of any watercourse crossing showing cross section and elevations	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt Attachment 13: 8 documents; see Document List (Att 3.1) for file names	Section 2.5, Attachment 13		
Watercourse Trainings	26	Provide a description of any watercourse trainings including channel and bank alterations, culverts, spurs, erosion control, and artificial accretion, and its purpose.	25	Provide a description of any watercourse trainings including channel and bank alterations, culverts, spurs, erosion control, and artificial accretion, and its purpose.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt Attachment 13: 8 documents; see Document List (Att 3.1) for file names	Section 2.5, Attachment 13		
Flood Control	27	Provide a description of any flood control structures and its purpose.	26	Provide a description of any flood control structures and its purpose.	N/A	No flood control measures to	o be used.		•		
Diversions	28	Provide a description of any diversions including ditches and dikes, and its purpose.	27	Provide a description of any diversions including ditches and dikes and its purpose.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt 210917-2AM-MRY1325-Amend2- Applic-Att-14.2-Mine-Water-Mgnt- Plan 210917-2AM-MRY1325-Amend2- Applic-Att-15.3- Port-Water-Mgnt- Plan	Sections 2.5 and 3.6, Attachments 14.2 and 15.3		

SIG - General Water Works (M1)

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

## UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

Section Title	Section No.	Information Requirement General Water Works	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y'or'NA'	If 'NA' provide justification	Insert <u>Title, Author and Date</u> of <u>Document</u> where information is provided	Insert <u>electronic file name of</u> <u>document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided		3 Concordance Assessment
Alterations in flow	29	Provide a description of any activities or structures that could alter the flow of a watercourse including dams, spillways, berms, cofferdams, and dikes, and its purpose.	28	Provide a description of any activities or structures that could alter the flow of a watercourse including dams, spillways, berms, cofferdams, and dikes, and its purpose.	Y		Same as above	Same as above	Same as above		
	30	Indicate whether the natural storage capacity or water level of any lake or pond will be altered.	29	Indicate whether the natural storage capacity or water level of any lake or pond will be altered.	Y		TSD-13 Surface Water Assessment, Knight Piesold, Aug 2018	08MN053_TSD-13_Surface- Water_Rev_1	Section 2		
		If the alteration involves a dam, provide a plan showing the length, height, cross section and elevations of the dam and the location and preliminary designs of spillways, canals, sluice pipes, and any other outlet work.	30	If the alteration involves a dam, provide a plan showing the length, height, cross section and elevations of the dam and the location and preliminary designs of spillways, canals, sluice pipes, and any other outlet work.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt 210917-2AM-MRY1325-Amend2- Applic-Att-14.2-Mine-Water-Mgnt- Plan 210917-2AM-MRY1325-Amend2- Applic-Att-15.3- Port-Water-Mgnt- Plan	Sections 2.5 and 3.6, Attachments 14.2 and 15.3		
Dewatering		Provide a description of dewatering programs, if planned, including estimated quantities, qualities, dewatering flow rates, methods and schedule of withdrawl, end use or discharge location.	31	Provide a description of dewatering programs, if planned, including estimated quantities, qualities, dewatering flow rates, methods and schedule of withdrawl, end use or discharge location.	N/A	No dewatering programs are	e planned.				
			32	Provide an estimate of the quality and flow of groundwater that will flow into any open pits.	N/A	No change from current Lice	ence.				
Identification		Indicate whether there are any signs identifying past or present water intake, storage, distribution systems and/or waterwork structures presently in the project area.	33	Indicate whether there are any signs identifying past or present water intake, storage, distribution systems and/or waterwork structures presently in the project area.	N/A	Area is currently an operatir	ng mine.				
Modifications	34	Indicate whether any changes are planned for the water intake, storage, distribution systems and/or waterwork structures. If applicable, see item 35 of this section.	34	Indicate whether any changes are planned for the water intake, storage, distribution systems and/or waterwork structures. If applicable, see item 35 of this section.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 3.7		
Proposed Water works		For each proposed water work component provide design plans. Design plans shall consider the following:  Name of the water body(s) affected.	35 a	For each water work component provide the design plans stamped for construction. Design plans shall consider the following:						Detailed information will be provided to the NWB prior to starting construction activities.	
	b c	Site photos, site map, or air photos of the location.  Description of the existing condition of the site (see section 4)	b c	Site photos, site map, or air photos of the location.  Description of the existing condition of the site (see Section 5)	)						
	d	Indicate whether any structures will be placed in water on a temporary, seasonal or permanent basis and provide a description of when and how the structure will be removed.	d	Indicate whether any structure will be placed in water on a temporary, seasonal or permanent basis and provide a description of when and how the structure will be removed.							
	e f	The design flood flow in cubic metres per second and its return period for the type of structure proposed.  An explanation of the rationale for the selected design flow	e f	The design flood flow in cubic metres per second and its return period for the type of structure proposed.  An explanation of the rationale for the selected design flow	1						
	g	flood and its return period.  Design drawings in plan and profile, drawn to scale, including all relevant dimensions.	g	flood and its return period.  Design drawings in plan and profile, drawn to scale, including all relevant dimensions.	1						
	h	Detaills of design parameters including seismic design criteria if applicable.  In water work timing restriction for fisheries.	h	Detaills of design parameters including seismic design criteria if applicable.  In water work timing restriction for fisheries.							
	į	Start and completion dates for construction.	j	Start and completion dates for construction.							
	k	Construction schedule and sequence taking into account any timing restrictions.	k	Construction schedule and sequence taking into account any timing restrictions.							
	m	Construction methods.  Equipment to be used.	m	Construction methods.  Equipment to be used.	Y						
	n	A description of the source, type, and composition of material used in construction.	n	A description of the source, type, and composition of material used in construction.							
	0	The quantity of material to be either placed into or removed from the watercourse.	0	The quantity of material to be either placed into or removed from the watercourse.							
	р	Sedimentation and erosion control measures.		Sedimentation and erosion control measures.							
	q r	Construction monitoring plans.  Construction quality assurance and quality control measures.	q r	Construction monitoring plans.  Construction quality assurance and quality control measures.	1						
	s	Assessment of impacts to fish and fish habitat (see item 46 of this Section).	s	Assessment of impacts to fish and fish habitat (see item 44 of this Section).							
	t u	Bank stabilization measures (including the size range of material if applicable).  Operation and maintenance plans including instrumentation,	t u	Bank stabilization measures (including the size range of material if applicable).  Operation and maintenance plans including instrumentation,	-						
	v	monitoring and inspection requirements  Contingency plans	v	monitoring and inspection requirements.  Contingency plans.	-						
	W	Re-vegetation plans	w	Re-vegetation plans	1						
	х	Proposed post construction monitoring (photos taken of the site before construction, during construction, and after construction; photos should be taken from the same reference	х	site before construction, during construction, and after construction; photos should be taken from the same reference	Э						
	у	point for easy comparison)  Abandonment and restoration plans (see items 46 and 47 of Section 3).	у	point for easy comparison)  Abandonment and restoration plans (see items 45-49 of Section 3).							

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

## UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

									1		
Section Title	Section No.	Information Requirement General Water Works	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y'or'NA'	If 'NA' provide justification	Insert <u>Title, Author and Date</u> of <u>Document</u> where information is provided	Insert <u>electronic file name of</u> <u>document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided		oncordance essment
Proposed Water works		Final plans and drawings for construction must be stamped by a Professional Engineer licensed to practice in Nunavut. (See Section 7 of the NWB's Guide 4: Completing and Submitting a Water Licence Application for more information regarding design drawings).	36	Final plans and drawings for construction must be stamped by a Professional Engineer licensed to practice in Nunavut. (See Section 7 of the NWB's Guide 4: Completing and Submitting a Water Licence Application for more information regarding design drawings).	a e						
		If geotextile is used or a similar material to prevent the transport of sediment into a watercourse, provide the technical specifications for the proposed material as well as the location, extent and placement method for the material.	37	If geotextile is used or a similar material to prevent the transport of sediment into a watercourse, provide the technical specifications for the proposed material as well as the location, extent and placement method for the material.	Y					Detailed information will be provided to the NWB prior to starting construction activities.	
	38	If rip rap is used or a similar material for erosion protection, provide information regarding the minimum and maximum sizes of the material and the gradation between those limits. Indicate the quantity to be used and its source.	38	If rip rap is used or a similar material for erosion protection, provide information regarding the minimum and maximum sizes of the material and the gradation between those limits. Indicate the quantity to be used and its source.							
Predicted Invironmental Iffects and	39	Provide a description of the effects of water usage on the river or lake from which water will be drawn, including potential for drawdown.		Provide a description of the effects of water usage on the source from which water will be drawn including the potential for drawdown.			TSD-13 Surface Water Assessment, Knight Piesold, Oct 3, 2018	08MN053_TSD-13_Surface- Water_Rev_1	All		
Proposed nitigation neasures	40	Provide a description of any expected changes in surface water flow or storage including changes downstream of the project.	40	Provide a description of any expected changes in surface water flow or storage including changes downstream of the project.	Y		Same as above	Same as above	Same as above		
		If the cross-section of any watercourse is changed, provide a description of the change and its effect on the flow capacity of the channel.	41	If the cross-section of any watercourse is changed, provide a description of the change and its effect on the flow capacity of the channel.	Y		Same as above	Same as above	Same as above		
-		If the course of any channel is changed, provide a description of measures to maintain stream bed and bank stability.  Provide a description of measures of preventing surface water	42	If the course of any channel is changed, provide a description o measures to maintain stream bed and bank stability.  Provide a description of measures of preventing surface water	f Y		Same as above	Same as above	Same as above		
		from coming into contact with waste and measures of managing surface water that does come into contact with waste (surface water management plan).		from coming into contact with waste and measures of managing surface water that does come into contact with waste (surface water management plan).	Y		Same as above	Same as above	Same as above		
		Provide a description of measures of preventing groundwater from coming into contact with waste and measures of managing groundwater that does come into contact with waste (groundwater management plan).	44	Provide a description of measures of preventing groundwater from coming into contact with waste and measures of managing groundwater that does come into contact with waste (groundwater management plan).	Y		Same as above	Same as above	Same as above		
Fisheries	a b c	If applicable, provide a description of any potential impacts to fish and/or fish habitat. (Indirect effects may include project effects, water quality, or aquatic organisms. Direct effects may include degradation or alteration of fish habitat). The applicant is advised to consult with DFO regarding fish and fish habitat related issues and to visit DFO's website at http://www.dfo-mpo.gc.ca/habitat/habitat-eng.htm.  Potential effects on fish or fish habitat; The area in square metres to be impacted; Measures to avoid sensitive periods and habitat areas (i.e., spawning beds, migration corridors); Measures to avoid physical impacts on habitat; Measures to maintain flows and fish passage;	b c	If applicable, provide a description of any potential impacts to fish and/or fish habitat. (Indirect effects may include project effects, water quality, or aquatic organisms. Direct effects may include degradation or alteration of fish habitat). The applicant is advised to consult with DFO regarding fish and fish habitat related issues and to visit DFO's website at http://www.dfo-mpo.gc.ca/habitat/habitat-eng.htm.  Potential effects on fish or fish habitat; The area in square metres to be impacted; Measures to avoid sensitive periods and habitat areas (i.e., spawning beds, migration corridors); Measures to avoid physical impacts on habitat; Measures to maintain flows and fish passage;	Y		TSD-14 Freshwater Biota and Habitat Assessment, North/South Consultants, Sept 2018	08MN053_TSD-14-Freshwater-Biota Habitat_Rev_1	All		
	f g h	Measures to avoid sedimentation;  Measures to avoid spills;  Detailed habitat no-net-loss plan and site restoration plan;	f g h	Measures to avoid sedimentation;  Measures to avoid spills;  Detailed habitat no-net-loss plan and site restoration plan;			TSD-15 Conceptual				
					Y		Freshwater Offsetting Plan, Knight Piésold, June 2018	08MN053_TSD-15_Conceptual- Freshwater-Offsetting-Plan_Rev_1	All		
Studies	46	Provide a list of studies, reports and plans relevant to the application that have been undertaken to date, or are being planned including:	46	Provide a list of studies, reports and plans relevant to the application that have been undertaken to date, including:							
	а	Options analysis;	а	Options analysis;	Y		TSD-01 Alternatives Analysis, Baffinland, August, 2018	Analysis	All		
	b	Water management plan including water balance analysis;	b	Water management plan including water balance analysis;	Y		See Document List (Att. 3.1)	Plan 210917-2AM-MRY1325-Amend2-	Sections 2.5 and 3.6, Attachments 14.2. 14.3, 15.3 and 15.4		
								Applic-Att-14.3-Mine-Water-Balance- BFD 210917-2AM-MRY1325-Amend2- Applic-Att-15.4-Port-Water-BFD			
	С	Fisheries assessment;	С	Fisheries assessment;	Y		TSD-14 Freshwater Biota and Habitat Assessment, North/South Consultants, Sept 2018	08MN053_TSD-14-Freshwater-Biota	All		

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

## UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

Section Title	Section No.	Information Requirement General Water Works	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y'or'NA'	If 'NA' provide justification	Insert <u>Title</u> , <u>Author and Date</u> of <u>Document</u> where information is provided	Insert <u>electronic file name of</u> <u>document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Studies	d	Construction plan and construction schedule for water works;	d	Construction plan and construction schedule for water works;						Detailed construction information will be made	
	е	Implementation schedule for construction of works.	е	Implementation schedule for construction of works.	Y					available to the NWB 30 days prior to construction as per water licence.	
	f	Construction quality assurance and quality control plans;	f	Construction quality assurance and quality control plans;	N/A	Remains unchanged from t	the Type A Water Licence Applica	tion			
	g	Operation and maintenance plan;	g	Operation and maintenance plan;	N/A	The mine is operational; a l	large number of operation and ma	intenance plans are under implementa	ation.		
	h	Preliminary abandonment and reclamation plans for existing and proposed facilities;	h	Preliminary abandonment and reclamation plans for existing and proposed facilities;	N/A			210917-2AM-MRY1325-Amend2- Applic-Att-30-ICRP	Attachment 30		
	i	Final abandonment and reclamation plans for facilities to be closed;	i	Final abandonment and reclamation plans for facilities to be closed;	N/A		Same as above	Same as above	Same as above		
	j	Monitoring plans (See Section 8).	j	Monitoring plans (See Section 8).	N/A	See Table 7					

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

#### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

Section Title	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y' or' NA'	If 'NA' provide justification	Insert <u>Title, Author and Date</u> of <u>Document</u> where information is provided	Insert <u>electronic file name of document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
Waste Disposal		Provide a detailed description of all types of waste and all forms of waste disposal including: (see the NWB definition of Waste in the NWB <u>Guide 2: Terminology and Definitions</u> )	Υ							
	а	Sewage	Y			210917-2AM-MRY1325-Amend2-				
}	b c	Grey water Solid waste	Y	-	See Document List (Att. 3.1)	Applic-Main-Rpt	Section 4			
ŀ	d	Sludge	Y							
l	e	Hazardous waste including waste oil	Y	1						
	f	Contaminated soil, snow, ice and/or water	Y							
	g	Bulky items/ scrap metal	Y	N1 202						
	h i	Mill or processing plant waste  Mine water	N/A Y	No milling or processing	FEIS, Baffinland, 2012	Volume 7	Volume 7, Section 3			
	j	Dredged material	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 2.6			
	k I	Discharge from dewatered areas Other: (describe)	N/A N/A			7,ppilo maii 1 pc				
Waste Disposal:		For each type of waste, provide the composition, chemical								
Quality and Quantity		characteristics and quantity generated. Also provide the location, rate, timing, frequency and duration of the deposit.	Y		Same as above	Same as above	Section 4			
		For each type of waste, provide the proposed methods and processes for collecting, storing, treating and discharging the waste. Indicate the capacity of these facilities.	Y		Same as above	Same as above	Section 4			
	4	Provide a description of any measures to minimize the production of wastes.	Υ		Same as above	Same as above	Section 4			
Identification		Indicate whether there are signs identifying any past or present wastewater disposal sites, solid waste disposal sites, or any other waste disposal sites presently in the project area.	N/A	The area is a current of	operating mine					
Modifications		Indicate whether any changes are planned for the wastewater, solid waste, or any other waste facilities. If applicable, see item 7 of this Section.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 4			
Proposed waste facilities	7 a	For each proposed waste facility provide design plans. The designs shall consider the following:  Site photos, site map, or air photos of the site.								
	b	Description of the existing condition of the site (see Section 5).								
	С	A description of the types of waste entering the facility (if applicable, provide a description of the source, type, and quantity of the waste);								
	d	The concentration of waste entering the facility;								
l [	е	The geochemical characterization of waste entering the								
	f	facility, where applicable (i.e tailings solids); Distance of the facility from watercourses and fish bearing								
	g	waters.  All sources of seepage encountered near watercourse and fish bearing waters as well as the volumes (m3/day) and direction of any seepage;								
	h	Existing and proposed drainage modifications.	Y		Milne Port Landfill Design and			To be provided following construction of the Phase		
]	- !	Details of retaining structures.	•		Operation Report			2 Proposal		
	k k	Level of treatment (primary, secondary or tertiary).  By products of treatment which may require further treatment, characterization, handling and disposal						·		
	1	treatment, characterization, handling and disposal.  Capacity and retention time of the facility;								
	m	Identification of final discharge point (last point of control).								
	n	Method and type of discharge (seasonal, annual, continuous) including details of all decant, siphon mechanisms etc.								
<b> </b>	0	Estimated rates for discharge.								
]	р	Restrictions on discharge.								
	q	Discharge effluent criteria proposed;								
}	r s	Receiving water quality objectives.  Capacity of the receiving environment;								
	t	Details regarding direction and path of wastewater flow from the area or infrastructure.								

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

#### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

Section Title	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting 'Y' or' NA'	If 'NA' provide justification	Insert <u>Title</u> , <u>Author and Date</u> of <u>Document</u> where information is provided	Insert <u>electronic file name of</u> <u>document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
Proposed waste facilities	u	Design drawings in plan and profile, drawn to scale, including all relevant dimensions.								
	v	Details of design parameters including seismic design if								
	w	applicable.  Start and completion dates for construction.								
	х	Construction schedule and sequence taking into account any timing restrictions.								
	у	Construction methods.								
	Z	Equipment to be used.								
	aa	A description of the source, type, and composition of the material to be used in construction.			Milne Port Landfill Design and			To be provided following		
	bb	Construction monitoring plans.	Y		Operation Report			construction of the Phase		
	СС	Construction quality assurance and quality control measures.						2 Proposal		
	dd	Operation and maintenance plans.								
	ee	Contingency plans.  Abandonment and restoration plans (see items 45-49 of								
		Section 3).								
	8	Final plans and drawings for construction must be stamped by a Professional Engineer licensed to practice in Nunavut. (See								
		Section 7 of the NWB's <u>Guide 4: Completing and Submitting</u> <u>a Water Licence Application</u> for more information regarding design drawings).								
		Provide an assessment of alternatives for any proposed tailings containment facility.	N/A	No tailings produced						
	10	Provide a description of the general condition of any existing waste facilities and provide an explanation if it is unsatisfactory.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 4			
Predicted Environmental Effects and Proposed mitigation measures	11	Provide detailed treatment plans for discharges from any tailings containment area, attenuation pond, reclaim pond, sewage disposal area, sumps or dewatered area. Water treatment plans should include estimates of treatment efficiency for each parameter of concern and a description of pH adjustment methods.	Y		Same as above	Same as above	Section 4.7			
		Clearly outline proposed discharge criteria, how the criteria were developed, standards to be applied, and how these criteria will be used to prevent ecological effects in the receiving environment.	N/A	Discharge criteria are	stipulated in Type A Water Lice	nce 2AM-MRY1325 and will be adhered	to.			
		If waste is expected to infiltrate into the ground, provide a description of the sub-surface soil compositions and provide information on groundwater elevations for the project area. Also provide the proximity between the proposed waste disposal system and the groundwater elevation.	N/A	Waste is not expected	I to infiltrate into the ground.					
		Provide a discussion of the consequences of long-term stratification in any pit lakes and associated contingency plans.	Y		Draft Interim Closure and Reclamation Plan, Baffinland, April 2021	210917-2AM-MRY1325-Amend2-Att- 30-ICRP	Attachment 30			
	15	Provide detailed contingency plans for the treatment of turbid water during dewatering activities and/or increased suspended solids during any rewatering activities.	Y		Surface Water and Aquatic Ecosystem Management Plan, Baffinland, 2021	210917-2AM-MRY1325-Amend2- Applic-Att-22-SWAEMP	Attachment 22			
Operations and Maintenance	16	Provide operation and maintenance plans for any tailings containment areas.	N/A	No tailings produced						
		If the project includes sewage and/or solid waste disposal, provide an Operations and Maintenance Manual in accordance with the "Guidelines for the Preparation of an Operations and Maintenance Manual for Sewage and Solid Waste Disposal Facilities in the Northwest Territories, 1996".	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Section 4.8	Jun-2020		
Hazardous Materials	18	Provide a description of the type and quantities of drill additives, mill reagents, petroleum products, chemicals and/or hazardous materials on site. (MSDS sheets are not required to be submitted as part of the water licence application).	Υ		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Main-Rpt	Sections 4.5 and 5.4			
	19	Provide details regarding the handling and storage of hazardous or potentially hazardous materials.	Y		Hazardous Materials and Hazardous Waste Management Plan, Baffinland, 2020	210917-2AM-MRY1325-Amend2- Applic-Att-25-Haz-Mat	All			

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

#### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

Section Title	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting ' Y ' or ' NA '	If 'NA' provide justification	Insert <u>Title, Author and Date</u> of <u>Document</u> where information is provided	Insert <u>electronic file name of</u> <u>document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
Emergency Response and Spill Contingency	20	Provide designs for the fuel tank farm facilities including a description of the nearest water bodies. Provide an evaluation of impacts and mitigation measures in case of a fuel spill.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Att-17.1-Mine-Tank-Farm and 210917-2AM-MRY1325-Amend2- Applic-Att-25-Haz-Mat	Attachments 17 and 21			
	21	Provide an Emergency Response and Spill Contingency Plan (ERSCP) that includes mechanisms and processes for addressing potential or actual failure of structures, response equipment and material storage, and programs for providing appropriate training to workers. The plan shall address all licensed facilities.	Y		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Att-20-ERP and 210917-2AM-MRY1325-Amend2- Applic-Att-21-SCP	Attachments 20 and 21			
	22	Plan(s) shall address phases of the project including construction, operation, and care & maintenance.	Y		Same as above	Same as above	Same as above			
	23	Provide an explanation of how the applicant will ensure project contractors meet the applicant's due diligence standards with respect to oil and hazardous material spill prevention, preparedness, response, and restoration.	Υ		Same as above	Same as above	Same as above			
Studies	24	Provide a list of studies, reports and plans relevant to the application that have been undertaken to date including design and management decisions. Studies, reports and plans may include:								
	а	Options analysis.	Y		TSD-01 Alternatives Analysis, Baffinland, Sept 2018	TSD-01-Alternatives-Analysis_Rev_1	All			
	b	Geotechnical and geothermal assessment;	Υ		See Document List (Att. 3.1)	210917-2AM-MRY1325-Amend2- Applic-Att-8 (Attachments 8.1 to 8.15)	Attachment 8			
	С	Water quality modeling;	Υ		TSD-13 Surface Water Assessment, Knight Piésold, Oct 3, 2018	TSD-13-Surface-Water_Rev_1	Section 3			
	d	Snow drift assessments;	N/A	Not completed	00.0, 20.0					
	е	Permafrost protection;			TSD-08 Landforms, Soil and Permafrost Assessment, Knight Piésold, July 2018	08MN053_TSD-08_Landforms-Soil- and-Permafrost_Rev_1	All			
					Geotechnical Design Basis, Hatch, 2018b	210917-2AM-MRY1325-Amend2- Applic-Att-7.3-Geotech-Design-Basis	Attachment 7.3			
	f	Mine waste and water management;								
	g	Landfill management;								
	h	Landfarm management;			Baffinland draft updated	l				
		Quarry Management;	Υ		management plans for Phase	Attachments 20 to 33; see Document	Attachments 20 to 33			
	J	Incineration management; Hazardous waste management;			2	List (Att 3.1) for file names				
	I	Operation and maintenance plan;		1				1		
	m	Inspection plan (see Section 8);						1		
	n	Tailings monitoring (see Section 8);	N/A	No tailings generated			•	<u> </u>		
	0	Mine site water quality monitoring (see Section 8);								
	р	Receiving water quality monitoring (see Section 8);						1		
	q	Aquatic effects monitoring (see Section 8);						1		
	r	Geotechnical and structural monitoring (see Section 8);			Baffinland draft updated			1		
	s t	Quality assurance and quality control plan;  Spill contingency and emergency response plans;	Y		management plans for Phase	Attachments 20 to 33; see Document	Attachments 20 to 33			
	u	Preliminary abandonment and reclamation plans for existing and proposed facilities;	•		2	List (Att 3.1) for file names	Attaciments 20 to 33			
	v	Final abandonment and reclamation plans for facilities to be closed;								
	w	Remediation plans for waste disposal infrastructure;						1		
	x	Human health and ecological risk assessment for establishment of remediation objectives for closure;	Υ		TSD-11 Country Foods Risk Assessment	08MN053_TSD-11_Evaluation-of- Exposure-Selected-VECs_Rev_1	All			
	У	Construction plan and construction schedule for waste management infrastructure;						To be provided to the NWB prior to construction		
	Z	Implementation schedule for construction of works, submission of studies and mitigation plans for operations and closure;	Y					in accordance with the Licence 2AM-MRY1325.		

### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT - PHASE 2 PROPOSAL

#### UPDATED APPLICATION FOR AMENDMENT NO. 2 OF TYPE A WATER LICENCE 2AM-MRY1325

Section Title	Section No.	Information Requirement General Water Works	Section No.	Information Requirement Mine Development	Indicate whether Information Requirement is applicable by inserting ' Y ' or ' NA '	If 'NA' provide justification	Insert <u>Title, Author and Date of Document</u> where information is provided	Insert <u>electronic file name of documen</u> t where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Monitoring	1	Provide a Monitoring Plan including a description of the methods, procedures, standards, and schedules proposed. Monitoring may be required for water use, effluent, surface	1	Provide a Monitoring Plan including a description of the methods, procedures, standards, and schedules proposed. Monitoring may be required for water use; effluent, surface			Surface Water and Aquatic Ecosystems Management Plan, Baffinland, 2021	210917-2AM-MRY1325-Amend2-Applic-Att- 22-SWAEMP	Attachment 22		
		and/or groundwater water quality, quantity, or flow; ground temperature; ground settlement; etc.		and/or groundwater water quality, quantity, or flow; ground temperature; ground settlement; etc. The Monitoring Plan must consider the life of the project, temporary closure and	Y		Aquatlic Effects Monitoring Plan, Baffinland, 2021 Fresh Water Supply, Sewage, and	210917-2AM-MRY1325-Amend2-Applic-Att- 28-AEMP 210917-2AM-MRY1325-Amend2-Applic-Att-	Attachment 28		
	2	Indicate who is responsible for sampling including that		permanent closure.  Indicate who is responsible for sampling including that			Wastewater Management Plan, Baffinland, 2020 Connor Devereaux	23-FWSW	Attachment 23		
	2	person's position, contact information and level of training.		person's position, contact information and level of training.	Y		Position: Environmental Superintender	nt			
	3	Indicate the name and contact information of the certified laboratory performing the analysis of samples.		Indicate the name and contact information of the certified laboratory performing the analysis of samples.	Y		ALS Environmental Laboratory in Waterloo, Ontario.	https://www.alsglobal.com/ca/locations/amer icas/north-america/canada/ontario/waterloo- environmental_			
	4	Provide an Inspection Plan including a description of the methods, procedures, standards, and schedules proposed. Inspections may be required for engineered facilities related to the management of water and waste as well as spills.	4	Provide an Inspection Plan including a description of the methods, procedures, standards, and schedules proposed. Inspections may be required for engineered facilities related to the management of water and waste as well as spills. The Inspection Plan must consider the life of the project, temporary closure and permanent closure.	Y		Environmental Protection Plan, Baffinland, 2019	210917-2AM-MRY1325-Amend2-Applic-Att- 28-EPP	Attachment 29		
			5	Provide a summary table of all monitoring commitments that details all monitoring locations. The table should include parameter(s), location, frequency, and mining phase, along with, cross-referencing to sub-documents where detailed information is provided. Where appropriate, a map detailing the location of monitoring sites is to be provided.			Aquatlic Effects Monitoring Plan, Baffinland, 2021	210917AM-MRY1325-Amend2-Applic-Att-28-AEMP	Attachment 28		
	6	Provide a summary table that details the monitoring plan. The table should include stations numbers, location, parameter(s) and frequency. Provide a map detailing the location of monitoring sites.		Provide a summary table of the expected quality and quantity of waters, over time in all sumps, monitoring stations, and discharge points, along with i) if applicable, adaptive management criteria to benchmark if mitigation/contingency are to be implemented, ii) if applicable, water quality criteria, and iii) management action.			Same as above	Same as above	Tables 5.1 and 5.2		
				Provide a monitoring plan for incinerator emissions (including, but not limited to, stack testing and annual reporting).	Y		Air Quality and Noise Abatement Management Plan, Baffinland, April 30, 2021	https://www.baffinland.com/ resources/document portal/Air-Quality-and-Noise-Abatement-Management-Plan-Rev-8.pdf	Section 5.2.2		
	5	Provide a Quality Assurance/ Quality Control (QA/QC) Plan that addresses both field sampling and laboratory analyses.	8	Provide a Quality Assurance/ Quality Control (QA/QC) Plan that addresses both field sampling and laboratory analyses.			Surface Water Sampling Program – Quality Assurance and Quality Control Plan, Baffinland, 2017	210917-2AM-MRY1325-Amend2-Applic-Att- 31-Wtr-Sampling-QAQC	Attachment 31		