

# BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

#### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN

July 5, 2011



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## BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

#### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN

#### **SECTION 1.0 - INTRODUCTION**

#### 1.1 PURPOSE

This Comprehensive Environmental Monitoring Plan (CEMP) has been developed for the Project, with the following objectives:

- Integrate outcomes of the environmental review process (NIRB Environmental Screening)
- Assess the effectiveness of proposed mitigation and to adapt accordingly
- Facilitate compliance with applicable regulations and requirements of environmental permits
- Enhance the awareness of project personnel to environmental commitments and requirements
- Support the ongoing collection of baseline environmental data

The CEMP, in part, articulates Baffinland's environmental management system to guide site operations and facilitate effective environmental management and monitoring. The development and implementation of the CEMP was a requirement under Item #6 of the Nunavut Impact Review Board (NIRB) Recommended Terms and Conditions for the bulk sampling program, and also forms a schedule of the commercial lease on Inuit Owned Land (IOL) with the Qikiqtani Inuit Association (QIA). In addition, the CEMP is a requirement of Baffinland's Water Licences Nos. 2BB-MRY0710 (expired December 31, 2010) and 2BB-MRY1114 (renewed April 5, 2011). Specifically Part I, Section 1 of Water Licence No. 2BB-MRY1114 states: "The Licencee shall submit to the Board for approval within (90) days of the issuance of this licence a revised Environmental Monitoring Plan."

The "Project" or the "current Project", as defined in this report and to which the CEMP applies, includes activities expected to be undertaken post shipment of the bulk sample in October 2008 and in advance of mine development including exploration and geotechnical drilling, post bulk sample monitoring, continued progressive reclamation and associated support services such as camp operations, and ongoing site maintenance and upgrades for the purpose of reducing environmental and safety risks as well as conducting pre-construction staging activities. The CEMP does not explicitly address environmental baseline studies which are undertaken under the guidance of scientific research permits, as appropriate. The location of the main project activities are shown on Figure 1.1. The layout of the camp facilities at Milne Inlet, Mary River, Mid Rail and Steensby Inlet are shown Figures 1.2, 1.3, 1.4 and 1.5 respectively. Figure 1.6 shows the alignment of the Milne Inlet Tote Road.

The CEMP is a 'living document' that will be regularly updated as the Project progresses, empirical field experience is gained, and mitigation measures evolve in the spirit of adaptive management. This version of the CEMP has been developed to reflect the activities that were undertaken during 2008, 2009, and 2010 as well as those planned for 2011.



#### 1.2 <u>SCOPE OF THE MONITORING PROGRAM</u>

The following, as applicable, will be monitored:

- Compliance with the terms and conditions of licenses, permits and authorizations, as well as commitments outlined in the Environmental Screening Decision (ESD)
- Activities in and around water, to ensure the protection of fish and fish habitat
- The presence and response of wildlife to Project activities
- Water sources for potable water consumption, treated sewage effluent prior to discharge, and receiving waters
- General site drainage in proximity to key site infrastructure and activities including roads and fuel storage areas
- Employment history and skills development of employees
- Continued collection of environmental and socio-economic baseline data

Each of the above components of the monitoring plan is described in the sections that follow. Abandonment and reclamation of the project and the associated monitoring is described in the "Abandonment and Reclamation Plan", the latest update to which was completed in March 2011.

#### 1.3 ENVIRONMENTAL PROTECTION PLAN

An Environmental Protection Plan (EPP) has been developed for use by managers and field supervisors in raising awareness and guiding project personnel in the execution of the Mary River Project in a way that protects the environment and honours the legal requirements and commitments Baffinland has made for the project. The EPP consists of Operational Standards addressing how the variety of activities shall be conducted during the project to adhere to regulatory requirements and Owner's commitments. The EPP is the "hands-on" aspect of the CEMP to be distributed to all managers and supervisors.

#### 1.4 DRAFT ENVIRONMENTAL IMPACT STATEMENT

Ongoing baseline data collection was also completed to support the completion of the Draft Environmental Impact Statement (DEIS). The Project continued to move through the NIRB environmental review process in 2010. The Guidelines for the Preparation of an Environmental Impact Statement (EIS) was issued by NIRB in November 2009. An Addendum to the Guidelines was issued in November 2010 relating to the inclusion of the "Road Haulage Option" as a Project alternative. Utilizing the above referenced guidelines, the DEIS was completed and submitted to NIRB on January 21, 2011. Ongoing baseline data collection was also completed to support the completion of the DEIS.



#### SECTION 2.0 - OWNER'S COMMITMENTS AND REGULATORY REQUIREMENTS

Baffinland is committed to conducting its work in a manner that minimizes potential impacts to the natural environment and contributes to positive social and economic effects, particularly as they relate to communities in the North Baffin region. Baffinland seeks to ensure that its activities and procedures meet these commitments and regulatory requirements, and that the commitments and requirements are understood, implemented and maintained by personnel at all levels involved with the Project.

#### 2.1 OWNER'S COMMITMENTS DURING PROJECT SCREENING

Owner's Commitments refer to those statements/commitments made by Baffinland during the course of the environmental screening and/or discussions with Inuit organizations, government agencies and communities. Commitments made during the screening of both the exploration and geotechnical program, as well as the bulk sampling program, are included in Table 2.1.

#### 2.2 <u>REGULATORY REQUIREMENTS</u>

Regulatory requirements refer to both the terms and conditions of permits and licences that have been issued to Baffinland, as well as applicable legislation (acts and regulations). Table 2.1 lists the Owner's commitments as well as the terms and conditions for the exploration and geotechnical program, as well as the bulk sampling program. The table will be updated when there are changes or additions to relevant regulatory requirements. Baffinland will assign responsibility for fulfilling these commitments to the appropriate personnel, when applicable. Table 2.2 lists the applicable legislation (acts and regulations) as well as guidelines, which have been identified to be applicable to the Project.

Exploration is focused on Federal Mineral Leases 2483, 2484 and 2485 (Deposit Nos. 1 to 4, incl.), shown on Figure 1.1. The leases are in good standing until August 2013. During 2010, exploration was focussed on Deposit No. 5 and vicinity (surface exploration and drilling), as well as on newly discovered Deposits Nos. 6 to 9, incl. (surface exploration only). The locations of Deposits Nos. 5 to 9, incl, are shown on Figure 1.1. Ongoing mineral exploration and geotechnical studies, along with the bulk sample program are governed by the terms and conditions in the authorizations shown below.

The CEMP is written to reflect the Terms and Conditions of these authorizations, and is updated as required to incorporate any changes in these terms and conditions as well as extensions, amendments or additional authorizations that are obtained. Relevant aspects of these approvals have also been incorporated into the EPP. Adherence to the EPP is the best guide to ensure compliance with the various acts and regulations that apply to the Project.

In the unlikely event that changes to legislation occur during the life of this document, the CEMP will be reviewed and amended as appropriate.



Type of Authorization	Approval No.	Authorizing Agency	Governing Activity	Period Valid
Expired Water License (Type "B")	2BB-MRY0710 (including Amendments 1 and 2)	NWB	Water use and waste disposal	Feb 20, 2007 to Dec 31, 2010
Renewed Water Licence (Type "B")	2BB-MRY1114	NWB	Water use and waste disposal	April 5, 2011 to April 5, 2014
Land Use Permit	N2006C0036	INAC	Exploration and Geotechnical Activities on Crown Land	April 3, 2011 to April 3, 2012
Land Use Permit	N2007F0004	INAC	Road Construction on Crown Land	July 4, 2011 to July 4, 2012
Commercial Lease for Inuit Owned Lands, Quarry Concession Agreement (Inuit Owned Lands)	Q07L3C001	QIA	Mining and exploration activities and use of borrow and quarry materials on Inuit Owned Land	August 1, 2007 to October 31, 2010
Commercial Lease for Inuit Owned Lands, Quarry Concession Agreement (Inuit Owned Lands)	Q10C3001	QIA	Mining and exploration activities and use of borrow and quarry materials on Inuit Owned Land	October 31, 2010 to December 31, 2011
Inuit Land Use Licence	Q10L3C010	QIA	Allow surface land use access for Deposit No. 5 and vicinity	June 1, 2010 to October 31, 2010
Quarry Permit	2010QP0088	INAC	Quarrying on Crown Land	June 28, 2011 to June 28, 2012
DFO Letter of Advice	File NU-06-0084, dated July 25, 2007, and subsequent	DFO	Crossing installations at Category Small Watercourses and Subsequent Modifications	Not applicable
HADD Authorization Fisheries Act S.35(2) and four amendments	File NU-06-0084, dated August 3, 2007	DFO	Crossing installations within fish habitat at 25 watercourses	No Expiry
Navigable Waters Protection Act Approval	8200-09-10415 8200-09-10425 8200-09-10414 8200-09-10424	Transport Canada	Construction of crossings in four (4) navigable waters	June 22, 2009 to June 30, 2015



#### **SECTION 3.0 - ROLES AND RESPONSIBILITIES**

#### 3.1 ORGANIZATIONAL STRUCTURE

The Sustainable Development department is responsible for environmental management, including ensuring compliance with applicable regulations and permit requirements through on-going monitoring, and the development and implementation of operational standards, procedures and employee training. Roles and responsibilities for implementation of the CEMP and the companion EPP are described in Table 3.1.

#### 3.2 MONITORING AND INSPECTION

A summary of the monitoring and inspection requirements described in Section 4 of this Plan is provided in Table 3.2. Responsibilities have been assigned to various personnel on the Project team. Where required, third party resources will be retained to supplement in-house resources and capabilities.

#### 3.3 <u>COMMUNICATION</u>

The types of communications for which members of the team will participate include the following:

- a) Formal written correspondence and meetings with stakeholders
- b) Site visits by community representatives
- c) Design, construction and planning meetings
- d) Field inspections and monitoring reports disseminated by the Environmental Health & Safety Superintendent
- e) Electronic communications
- f) Tailgate/toolbox meetings
- g) Formal written correspondence and meetings with government regulatory bodies
- h) Formal environmental awareness training

Communications will be appropriately recorded and filed for future reference. Where appropriate, the copies of communications will be forwarded to the Operations Manager(s), and Vice President Sustainability.

#### 3.4 TRAINING AND AWARENESS

Staff and sub-contractors working on site will receive environmental training as part of the Site Orientation, to achieve a basic level of environmental awareness understanding of their obligations regarding compliance with regulatory requirements, commitments and best practices.

Operations and Site Managers and contractor supervisors will be provided this CEMP, and will receive additional orientation with respect to the requirements outlined in the CEMP. In addition, all supervising level staff and sub-contractors will be provided with the Operational Standards (the EPP) as a written guidance for their work.



Targeted environmental awareness training will be provided to both individuals and groups of workers assuming a specific authority or responsibility for environmental management or those undertaking an activity with an elevated high risk of environmental impact, such as in-water work at watercourse crossings. These will be delivered in the form of toolbox/tailgate meetings or other means as appropriate.

The content of the environmental component of the site induction will include at a minimum:

- a) Location of environmental sensitivities
- b) Location of additional information on environmental matters
- c) Due diligence responsibilities
- d) Responsibilities related to waste management, minimizing noise as necessary, road traffic rules, etc.
- e) Principles and necessary steps to avoid encounters with bears or other wildlife and what to do if one such encounter occurs

#### 3.5 EXTERNAL COMMUNICATIONS

Effective forms of communication include the proactive notification to external stakeholders of Project activity. Project activity updates will be provided to the communities of North Baffin through various means including regular meetings, public notices and radio announcements as appropriate. Baffinland will endeavour to maintain Community Liaison Offices to assist in this regard. Shipping notification will be provided to Nunavut Tourism for dissemination to tourist operators in the region.



#### **SECTION 4.0 - MONITORING PROGRAM**

The monitoring program described in the sections below has been updated to reflect activities reasonably expected to be undertaken post shipment of the bulk sample in 2008 and in advance of mine construction. The design and associated results of monitoring programs undertaken in previous years are provided in various regulatory reports, most notably the NIRB and NWB annual reports for 2007 through to 2010.

#### 4.1 <u>METEOROLOGY</u>

Three meteorological stations have been established, with one at the Mary River site and one at each of Steensby and Milne Inlet's locations. The stations record air temperature, relative humidity, precipitation, wind direction and wind speed. The data collected from the meteorological stations is establishing a climatic record at key project areas.

During 2009, each station was retrofitted with new research technology being tested to determine its ability to transfer data remotely in real time.

#### 4.2 AIR QUALITY AND NOISE

Potential sources of project related effects to air quality include exhaust emissions from vehicles, aircraft, generators and other equipment, emissions from camp incinerators, and fugitive dust emissions from road traffic during the snow-free periods. In 2007 and 2008 there were additional sources of potential air related effects associated with bulk sample activities including fugitive dust emissions from mining/blasting, crushing, conveying and stockpiling activities. These sources were also contributors to the generation of project related noise.

#### Ambient Air Quality Monitoring

Passive and active air quality monitoring was conducted during the period that the bulk sample was mined and shipped. Active monitoring involved the measurement of total suspended particulate matter (TSP) and various metal concentrations at areas of activity including the Mary River camp and airstrip, bulk sample pit, crusher, Mary River airstrip, crusher, haul road, and along the Milne Inlet tote road. Passive sampling included the collection of SO<sub>2</sub>, NO<sub>2</sub>, O<sub>3</sub>, and dustfall samples simultaneously at the Mary River airstrip, the crusher, and along the Milne Inlet tote road. This monitoring was conducted specifically in support of the bulk sample program and for the collection of empirical information to support full-scale project planning. Continued monitoring is not required at this point in time.

#### Incinerator Emission Testing

Non-hazardous camp wastes, not otherwise scheduled for off-site disposal/recycling or that are suitable for disposal in the on-site landfill are disposed of in the camp incinerators. Incinerated wastes are generally those generated from the kitchen and personnel accommodations.



Camp incinerators are installed at each of the camps associated with the Mary River Project, namely Milne Inlet, Mary River, Mid-Rail and Steensby. Each of these incinerators utilizes dual chamber, variable air flow design technology and is specifically designed for remote camp operations. The manufacturers of these incinerators claim that these incinerators are capable of meeting the Canadian Council of Ministers of the Environment (CCME), Canada Wide Standards (CWS) for Mercury Emissions and the CCME CWS for Dioxins and Furans.

The waste incinerators are operated on an as required basis. Standard operating procedures have been developed in accordance with the manufacturers recommendations and operators receive training by experienced supervisory personnel. Incinerator ash that is generated is stored on-site in 200 L drums for future disposal in the on-site landfill after the completion of a leachate toxicity testing program.

The incinerator at the Mary River Camp is the largest unit on-site and was replaced in 2008 as the previous incinerator had reached the end of its useful life. An emissions test was completed on this older unit in 2007. A discrete stack test of the new incinerator at Mary River was undertaken in 2008 and 2009 to provide an indication of potential emission characteristics from incineration activities at each of the camps. Testing was completed for dioxins/furans including mercury.

Incinerator monitoring will continue to be undertaken. An emphasis has been placed on procurement policies and the application of consistent operating practices to reduce the risk of poor quality emissions. A report completed by RWDI and presented in the 2011 NIRB Annual Report (January 2011) provided an analyses of historical testing results, operating practices and on-site waste management activities. It also provided recommendations for improvements to incineration operating and management practices that will be implemented.

#### Noise

A noise monitoring program was undertaken at Mary River during the bulk sampling program. The purpose of the monitoring program was to assess the magnitude of noise impacts from the activities. In the absence of Nunavut-specific noise guidelines, the Alberta Energy and Utilities Board guidelines were used for comparative purposes. The three main activities that were expected to cause the main noise impacts included the Mary River site camp operations (including vehicles, generators, incinerators, etc.), aircraft activities, as well as mining, crushing and transportation activities related to bulk sample extraction. This monitoring was conducted specifically in support of the bulk sample program and for the collection of empirical information to support full-scale project planning. Continued monitoring is not required at this point in time.

Noise emissions associated with on-going site activities will be localized and will be generated by camp operations, equipment operation and frequent aircraft take offs and landings. Field activities will be conducted in accordance with the EPP to minimize potential effects to people and wildlife. More specifically, equipment will be operated with modern mufflers, aircraft will fly above minimum prescribed heights, and drilling and other site activities will be guided by the presence and response of wildlife.



#### 4.3 LANDFORMS

The bulk sample program required the disturbance of surface landforms through cut and fill operations associated with road construction and excavations in borrow locations. Culverts were installed in the roadways at drainages and water crossings. A single pit on the top of Deposit No. 1 was advanced to extract the bulk sample. Other civil infrastructure was also constructed, most notably were lined polishing waste stabilization ponds (PWSPs) to accept effluent from the Milne Inlet and Mary River sewage treatment facilities and lined bulk fuel storage containment areas. Landforms associated with the bulk sample project have and will continue to be inspected on a regular basis to confirm suitable physical stability conditions remain. This will include inspection of disturbed areas to ensure the effectiveness of sediment and erosion control measures, the physical stability of open pit slopes and stockpiles including those of ice rich soils. Monitoring of disturbed areas will continue through post-closure as described in the Abandonment and Reclamation Plan.

Environmental protection measures in the EPP define the measures to be employed during construction, to ensure that impacts to the environment and receiving waters are protected from contaminated runoff and increased sediment loadings.

#### Bulk Sample Pit

The bulk sample pit was constructed as a side-hill cut and was confirmed by land survey at its completion in 2008 to be free-draining. The bulk sample pit was designed to be free-draining so as to reduce any risk for poor water quality run-off. In 2009 and 2010, periodic monitoring of the pit indicated that the pit floor was free draining. The pit will continue to be inspected on an annual basis to ensure the pit slopes will be stable in the long term.

#### Stockpiles

The bulk sample program generated stockpiles of ore adjacent to the pit at Deposit No.1, at the crusher site at the base of Deposit No.1, and at Milne Inlet where the ore was loaded for shipment in 2008. These stockpiles are expected to be stable in the long term. Monitoring of run-off water quality is discussed in Section 4.7.

#### Road Embankment Construction

Upgrades necessary to support the hauling of the bulk sample were completed to the Milne Inlet Tote Road in 2007 and 2008 by adding fill to the roadbed, cutting and filling on hills, and installing crossing structures (mainly culverts) at watercourses and drainages. Similar work was undertaken to construct a haul road from the ridgeline on Deposit No. 1 to the crusher location. Fill from the areas immediately adjacent to the embankment and from designated large borrow areas was placed to form various road embankment thickness depending on the frost/thaw susceptibility of the underlying foundation soils.

The design of the watercourse crossings is such that, during summer, heavy flows overtop some of the culvert crossings equipped with overflow swales. This can result in some erosion and siltation,



and efforts have been made in 2009 and 2010 to improve environmental performance of a number of crossings where this has occurred. These conditions will improve in 2011 with continued Tote Road maintenance and upgrades which will reduce safety and environmental risk and improve performance.

It is intended that the Milne Inlet Tote Road will continue to provide all-season access to the Mary River Site until after proposed construction of the full-scale Mary River Project when it may be used to haul ore to Milne Inlet assuming the haul road option is advanced. Prior to mine construction, the road will be used to facilitate transport of fuel, supplies, and equipment to support ongoing exploration as well as pre-construction staging efforts. The road is expected to require regular maintenance including snow clearing during the winter months (when in use) as well as culvert and crossing maintenance and during the summer period.

Inspections will continue to be undertaken to monitor the physical stability and any environmental concerns related to the road and associated water crossings and borrow areas.

#### Borrow Area Development

Fill materials needed for upgrades of the Milne Inlet Tote Road, the mine haul road, and other civil works has been obtained from designated large borrow areas and from within the road alignment.

Borrow material is obtained by shallow and broad stripping of the active layer without blasting and concentrated during the summer and fall. The stripping of the active layer results in a thawing of the underlying permafrost and eventually a re-establishment of a new active layer and permafrost depth. A release of excess moisture is expected with the thawing process, particularly if ice lenses are present. This thawing and release of moisture will be accompanied by settlement, the degree of which may vary from location to location based on the relative presence of ice lenses and topography.

During 2009, a field study conducted by a geotechnical engineering consultant was initiated to establish preliminary closure criteria for the Tote Road borrow areas and to confirm that as-built conditions are suitable for eventual decommissioning. The borrow pits were prioritized based on the established criteria and an action plan developed to reclaim the pits on a priority basis. During 2010, remedial action was initiated with the strategic placement of new embankment material on and adjacent to the road fill in areas where ongoing thaw is compromising the stability of the road and nearby terrain.

The reclamation effort may take several years of regrading, fill placement, monitoring, and adaptation to achieve acceptable long term condition. The monitoring program will continue to be undertaken to confirm stability of the borrow areas.

#### Rock Quarries

Two (2) rock Quarries have been designated and approved for use. To date only the Quarry located near the Mary River Camp has been used. Quarrying will not occur within 30 m of a



watercourse, and drainage will be re-established as necessary during quarry development. Any rock faces will be inspected by a geotechnical engineer to ensure physical stability. Ditching and other drainage measures will be established as needed to limit erosion and maintain positive drainage to minimize water ponding. Contouring, ditching and silt fences will be applied as warranted to ensure sediment and erosion control. The post-excavation monitoring will reduce the potential for sediment transport to nearby watercourses and will ensure the conditions will be stable in the long term.

Polishing/Waste Storage Ponds (PWSPs) and Fuel Storage Facilities

Engineered PWSPs have been installed at the Milne Inlet and Mary River camps as a contingency for the storage of effluent from the mechanical sewage treatment facilities during periods of plant start-up or in the event of upset where discharge criteria under the Water License is not met. Storage ponds will be inspected annual by a registered geotechnical engineer and a report submitted to the Nunavut Water Board in accordance with Part D, Item 16 of the water license.

Bulk fuel is stored within engineered and lined containment areas at the Mary River and Milne Inlet Camps. Barrelled fuel caches and hazardous wastes are also stored within lined areas at various project sites. Inspections of fuel and waste storage areas will be completed in accordance with the EPP, including an annual inspection by a registered geotechnical engineer and a report submitted to the Nunavut Water Board in accordance with Part D, Item 16 of the water license for the bulk fuel storage areas.

#### 4.4 <u>TERRESTRIAL WILDLIFE</u>

Potential impacts to wildlife could arise during operation of the Mary River, Milne, Mid-Rail or Steensby Camps, from air traffic and drilling activity (exploration and geotechnical programs), and from use of the Milne Inlet Tote Road, and at the port facilities. General impacts that could potentially affect a wide range of species can be organized into the following six main categories:

- a) Impacts directly related to the Milne Inlet Tote Road
- b) Disturbance
- c) Habitat loss
- d) Attraction and habituation
- e) Hunting (mortality sinks)
- f) Bioaccumulation of heavy metals and other pollutants in forage plants

The ESD identified a number of changes in project design, operational safeguards, and contingency plans to be applied to mitigate potential impacts. Highlights of the potential impacts and proposed mitigation include:

Limit potential impacts to wildlife by limiting noise emissions to the extent possible. All mobile
equipment used during the project is to be properly equipped with appropriate mufflers, to
minimize noise.



- Minimize project footprint, thus minimizing the loss of habitat and reduction of habitat effectiveness. Habitat effectiveness decreases when wildlife use of a previously important habitat declines not because of habitat loss but because of disturbance.
- Adhere to the intent and spirit of both the traffic management plan and the caribou protection
  measures outlined in the North Baffin Regional Land Use Plan. This will minimize direct
  mortalities due to collisions with vehicles, and disruption of wildlife movements across the road.
  The Traffic Management Plan is included in the EPP.
- Minimize attractants at camps through responsible waste management and effective environmental awareness programs;
- Minimize and eliminate contamination of habitat by industrial products, and
- Address the potential for human interactions with polar bears through the development and implementation of a Human-Polar Bear Conflict Management Plan (refer to Safety Program Guidelines).

The EPP provides further details on work procedures intended to mitigate potential wildlife related impacts. In addition, the Wildlife Mitigation and Monitoring Program specifically developed for the geotechnical drilling program (as amended from time to time) will be followed. The Wildlife Mitigation and Monitoring Program was developed as a condition of the ESD and is intended to detail potential wildlife impacts, propose mitigation strategies, and to establish a monitoring program specific to the geotechnical drilling program.

Wildlife monitoring was conducted in 2008 and in previous years as part of the on-going environmental baseline studies as well as specific activity monitoring associated with the exploration, geotechnical and bulk sample programs. Future baseline programs will be undertaken in accordance with approved plans and scientific research permits. The CEMP addresses only the monitoring to be undertaken in association with field activities including camp operation, air traffic, drilling activities, and port operations.

#### Regional caribou and bird surveys

Caribou have been observed in low numbers and densities in areas of project activity. These observations have been substantiated by through IQ studies, aerial surveys, ground surveys, and habitat assessment plots. Key surveys for caribou have been conducted in past years though aerial surveys to determine late winter distribution (March), calving surveys (mid-June), fall distribution (September and October), and trail surveys (summer). This monitoring has been conducted specifically in support of the bulk sample program and for the collection of information required for full-scale project planning. Continued regional monitoring as described above is not required at this point in time.

In 2008, 2009, 2010, Baffinland provided cash and in-kind support to the Government of Nunavut (GN) for initiation of the "Caribou Collaring and Data Acquisition Program" for the North Baffin Region. The field collaring program was successfully completed in early 2009. The caribou survey covered approximately 80,000 km sq. and extended from the very north tip of the Borden Peninsula to the southern coast of Baffin Island by Steensby Inlet. Caribou occurred at low densities throughout the study area including the Mary River site. A total of 30 GPS collars that were



deployed in 2009 were retrieved in 2010. There were no injuries or mortalities during the collaring process. The information the collars collected on caribou movement and space will be useful for managing future land use activities, with the goal of minimizing impacts to both caribou and their habitat.

Bird studies have been undertaken and have included many aerial, ground and "point-count" surveys conducted in the spring, summer and fall at Mary River, along the Milne Inlet Tote Road, along the potential railway alignments, and at potential port sites and coastal areas. In 2008, surveys were conducted during four separate field sessions. These studies have been conducted specifically in support of the bulk sample program and for the collection of information required for full-scale project planning. Continued regional monitoring as described above is not required at this point in time.

During 2010, ground surveys were completed for caribou use of rail alignment and Tote Road as well as raptor surveys to document raptor use in the region of Steensby Camp. For the above surveys, the wildlife biologists were accompanied by local community members selected by their local HTOs for their traditional knowledge of wildlife in the Mary River area. During the surveys, the biologists relied heavily on the traditional knowledge provided by these individuals.

#### Drill Monitoring

Wildlife surveys and observations of the area around geotechnical drill sites prior to drill placement, during and following drilling operations, by completing pre-drilling and post-drilling checklists in accordance with the EPP.

#### Incidental Wildlife Observations

A wildlife log is maintained at each of the camps and will be used by all site personnel for the incidental reporting of wildlife observations while working at camps as well as during remote work or travelling by vehicle or air. The Environmental Health and Safety Superintendent will ensure the use of the wildlife log by personnel as per the EPP.

#### Visitors Log

A visitors log is maintained to document observed visitors and hunters in the area of project activities, including the use of the Milne Inlet Tote Road. The Environmental Health and Safety Superintendent will ensure the use of the visitors log by personnel as per the EPP.

#### Constraints Mapping

Information gathered through surveys and logs have been incorporated into constraints maps that are updated, as required, and used as an operational tool to assist in avoiding or minimizing disturbance to terrestrial wildlife.



#### 4.5 FISHERIES AND AQUATIC RESOURCES

Potential sources of project related impacts to fish and fish habitat include the release of sediment to water courses affecting water quality, alteration of fish habitat or blockage of fish passage, accidental release of deleterious substances (i.e., fuel spills) or the potential entrainment of fish through water supply intakes for drilling and potable water.

#### General Mitigation and Monitoring

In general, construction and operational activities will be undertaken a minimum of 30 metres away from water bodies to minimize the potential for release of sediment and deleterious substances that may affect fish or fish habitat. Constraint maps will be maintained by the Environmental Health and Safety Superintendent to identify areas assessed as fish habitat.

The potential for fuel spills in and around water will be addressed by refuelling of equipment at a distance greater than 30 m from any water bodies, as specified in land use approvals and wherever possible. Fuel will be managed and monitored in accordance with the EPP and related operating protocols.

#### Milne Inlet Tote Road

Upgrade to the existing Milne Inlet tote road to facilitate all-season use required the installation and/or replacement of culverts at water crossings and key drainages along its approximate 104 km length. Work was initiated in 2007 and largely completed in 2008.

Twenty-five (25) of the culvert installations along the tote road were expected to likely result in a Harmful Alteration, Disruption or Destruction (HADD) of fish habitat as defined under the *Fisheries Act*. Under the terms of the Section 35(2) Fisheries Authorization issued by DFO for these installations, a Fish Habitat No Net Loss and Monitoring Plan (No Net Loss Plan) was developed to mitigate impacts to the associated fish habitat. As an element of the No Net Loss Plan, enhancement and/or restoration of fish habitat was planned at thirteen (13) locations along the tote road. An additional twenty-four (24) watercourses containing fish habitat identified along the length of the Milne Inlet Tote Road were deemed not to likely result in a HADD. A letter of advice was issued by DFO for the installation of these crossings. Tables 4.1 and 4.2 provide a summary of culvert installations.

The monitoring aspects of the No Net Loss Plan were developed to ensure that all measures and works specified in the Plan and the fisheries authorization have been implemented and are functioning as intended. This Monitoring Plan is being implemented at the 25 HADD authorized crossings and the 13 compensation sites, unless indicated otherwise below. The monitoring plan is to be implemented annually a minimum of two years post-construction or until the No Net Loss Plan has been successfully implemented.

The Fisheries Authorization requires an annual report to be submitted at the end of each calendar year. The annual report includes a description of any construction work, fish habitat assessments,



and fish habitat compensation works undertaken over the year, as well as turbidity monitoring data and a photographic record of the work. Much of the work required under the Fisheries Authorization was completed in 2008, with three crossings identified as No Net Loss Compensation Sites completed in 2009. Despite, the completion in 2009 of the construction measures required in the Fish Habitat Compensation Plan, there still remains a shortfall of habitat gain to compensate for HADD. This was largely due to the fact that many of the existing compensation sites were identified as non-fish bearing during 2009 studies. During 2010, actions were taken to address this concern.

During 2009, major repair work was required at box culvert CV-217 located at km 80 due to damage sustained during freshet flows. During fish and fish habitat surveys of crossings in the late spring and summer, four round culverts (were identified as partial or complete barriers to upstream movements of fish. Work plans were established to repair these crossings by means of downstream habitat enhancement construction. This work was partially completed during late 2009 and early 2010. Amendments to the HADD authorization and a letter of advice provided approval for the work to proceed.

Ongoing monitoring, maintenance and upgrades of the tote road and bulk sample pit haul road, including grading and contouring of borrow areas will be undertaken to further reduce the risks for substantial sediment and erosion and to enhance safety along the road.

#### Construction Monitoring

During in-water construction of all Medium, Large and Extra-Large crossings ranked as fish habitat and all compensation and reclamation sites, a designated environmental inspector will be on site to ensure implementation of the designs as intended in the Plan and conditions of the authorization. A Watercourse Crossing Monitoring Data Form, included in the EPP has been prepared to be completed by the environmental inspector just prior to, during and immediately post construction.

Information to be collected and items to be monitored at each location, and recorded on the Watercourse Crossing Monitoring Data Form, includes:

- a) Construction dates
- b) Location
- c) Fish and fish habitat assessment
- d) Channel characteristics pre and post construction, upstream and downstream
- e) Sediment and erosion control measures
- f) Crossing installation details
- g) Record of the photographs

For in-water work within the restricted timing window from September 1 to June 30, the Extra-Large, Large and Medium crossings with fish habitat will be assessed on-site by the designated environmental inspector prior to the onset of construction to confirm the absence or presence of potential spawning sites situated within 20 m either upstream or downstream of the crossing location, and whether spawning Arctic char are present in the vicinity.



During construction of HADD authorized crossings with flow, turbidity will be monitored downstream of the crossings where possible. Details of this monitoring are outlined in the sub-section below.

Crossings will be visually inspected immediately after construction to confirm that the culverts are functioning as intended and that fish access has been maintained or enhanced. Positive and/or negative effects will be documented.

In addition to the measures outlined above, there is the possibility of field adjustments to the exact location of any of the crossings within the watercourse. In these cases, a habitat assessment will be completed to confirm that impacts to habitat remain materially the same before proceeding.

#### Post Construction Monitoring

Medium, Large and Extra-Large crossings ranked as fish habitat and compensation and reclamation sites will be monitored post construction to ensure that all measures and works specified in the Plan and the fisheries authorization have been implemented and are functioning as intended.

Flow will be monitored to ensure that the installation of crossing structures has not adversely affected upstream and downstream fish migration. Flow was measured during the spring runoff period and after extreme storm events, in 2008 and 2009, at the four Extra-Large crossings to determine if flows exceed the ability of adult char swimming. Flow depth was measured at all 25 HADD authorized crossings during the low flow period in August to ensure fish passage is possible through the embedded culvert.

Fish habitat compensation works will be monitored to ensure that the works are functioning as intended. Fish passage and habitat conditions will be assessed at the compensation sites, where relevant, post-construction through observation and fish trapping.

Compensation sites, where restoring fish access to upstream habitat was the goal, were inspected upstream and downstream to identify barriers to fish migration. Electrofishing was conducted within the fish accessible reach to document fish presence during the first full open water season post-construction.

Habitat reclamation sites were visually inspected post-construction to ensure that stream substrate below the debris removal spots is consistent with the rest of the stream. If not, the situation was assessed and rehabilitation measures, such as moving larger rocks to the area, were undertaken where appropriate. Electrofishing was conducted within the fish accessible reaches to document fish presence during the first full open water season post-construction, as appropriate.

Habitat enhancement sites were monitored to ensure that sediment inputs to the downstream environment have been reduced. Turbidity was monitored pre and post rainfall events downstream of BG016 and CV176. Turbidity was monitored approximately two weeks after construction, where possible, as outlined in the subsection below.



#### Turbidity Monitoring

Turbidity has been shown to affect fish habitat. Suspended solids in turbid water can clog fish gills, reduce growth rates, decrease resistance to disease, and prevent egg and larval development. Settled particles can smother eggs of fish and aquatic insects.

During road construction, on-site visual monitoring of turbidity was conducted and used to ensure that various mitigation measures are implemented, including:

- a) Minimizing timing of in-water work
- b) Limiting fording to one-time, where possible
- c) Implementing and maintaining effective sediment and erosion control measures
- d) Delaying work if it is visibly apparent that char are migrating through the particular crossing

To document site conditions during and after construction and decommissioning, turbidity was monitored in watercourses with fish habitat both upstream and downstream of construction activities where possible. The upstream reading provided background turbidity information for the watercourse, while the downstream reading provided information on changes in turbidity caused by construction. Upstream readings were collected well away from any construction activity (approx. 50 m) to provide accurate results. Depending on activities and site conditions, readings may be collected at more than one location upstream and downstream. At each monitored watercourse crossing, a Turbidity Monitoring Data Form, included in the EPP, was completed to document conditions and record turbidity readings

Turbidity was measured during construction, as well as approximately 2 weeks after construction activity was completed at each monitored watercourse crossing. In comparing background data with post-construction data, factors affecting turbidity, such as weather conditions and stream flow, were considered. Turbidity measured post construction was compared with upstream turbidity measured during construction.

#### Ice Blockage Monitoring and Contingency Plan

Following any crossing construction and during road use, the amount of ice build-up in front of the culverts will be monitored and ice will be removed if necessary. Ice will be removed manually or using steamers or other devices.

#### Water Intake and Sewage Outfalls

The potential for entrainment of fish through water supply intakes (camps and drills) will be addressed through adherence to the Department of Fisheries and Oceans guideline entitled "Freshwater Intake End-of-Pipe Fish Screen Guideline" (DFO, 1995).

Water sources for drilling will be selected in consideration of the potential for drawdown. Streams will not be used unless previously approved by the Nunavut Water Board and rivers/lakes will not be selected for use should there be risk of drawdown elevation exceeding 5%. Water sources



proposed for use will be reported as per the water license, and at least ten (10) days in advance of use. During use, water sources will be periodically be monitored for drawdown and documented on drill inspection forms in the EPP. Drilling will be suspended if drawdown limits are exceeded.

Water intakes will be installed and operated in accordance with the DFO Letter of Advice and the Transport Canada Navigable Waters Section 5(2) approvals applicable to these activities.

#### 4.6 MARINE WILDLIFE

The following project components have been identified through which the Project could potentially have an impact on marine mammals:

- Underwater and airborne noise due to construction-related activities and from the operation of ships and barges
- b) Human interactions with wildlife
- c) Accidental introduction of hydrocarbons or other deleterious substances into the marine environment

In support of the shipment of a bulk sample, a marine mammal monitoring program within the Pond Inlet-Eclipse Sound-Milne Inlet area of Nunavut was conducted by aerial line transact surveys during the open water season of 2008. The objectives were to document the distribution and response of marine mammals in the area to ship traffic to and from the landing site at Milne Inlet and to assist in the environmental assessment of the Mary River Project. The 2008 monitoring program was guided by the results of the 2007 program. Also in 2008, a similar aerial survey was undertaken in association with the dry cargo sea-lift that landed at the Steensby Inlet camp site.

Observed reactions of marine mammals have been generally consistent with other studies documented in the literature. Large changes in the geographic distribution of marine mammals that could be attributed to vessel transit were not observed. Minor and localized behavioural reactions of narwhals to the ship transits en route to or from Milne Inlet were observed and characterized by increased swimming speed and some alteration to swimming direction by narwhals in close proximity to the vessel or vessel track.

A dedicated marine monitoring program is not required to support on-going sea-lift operations at Milne Inlet and Steensby Inlet in association with current project activities. Mitigating measures outlined in the EPP will continue be followed to reduce the potential for impacts to marine mammals.

#### 4.7 WATER QUALITY

The objectives of the water monitoring programs are to:

a) Ensure water use is not exceeding quantity restrictions and is being extracted from approved locations without causing adverse effects



- Ensure sewage treatment facilities are meeting effluent quality requirements and that receiving waters are not being negatively impacted
- c) Ensure that site drainage and runoff are not being adversely affected by site activities

Water quality monitoring is described below. This section incorporates water license requirements as well as aspects of the ESD, the Site Water Management Plan, and the Waste Water Management Plan. The latter documents are requirements of the water license and outline the management approaches as well as monitoring that is consistent with the CEMP.

The water quality monitoring program consists of several elements as follows:

- a) Measurement, recording and reporting of water volumes extracted, as prescribed by the water license
- b) Sampling, analysis and reporting of water quality, as prescribed by the water license
- Weekly to monthly monitoring downstream of exploration drilling activities during periods of open water

Table 4.2 summarizes the water quality monitoring program. This monitoring program is carried out concurrent with ongoing baseline water quality sampling; however, the baseline program is not discussed in the CEMP.

#### Potable Water

Potable water treatment systems are in place for the Mary River Camp (drawing water from Camp Lake), for the Milne Inlet Camp (drawing water from Phillips Creek in summer and an un-named lake at km 32 of the Milne Inlet tote road in winter), and for the Mid-Rail Camp (drawing water from the adjacent lake). Potable water for Steensby Inlet Camp is either pumped directly using drill hose from an un-named lake approximately 3 km east of the camp or transported to camp in buckets via helicopter. Potable water treatment systems for the four camps consisted of holding tanks, UV disinfection, and filtration. There are two main regulatory instruments related to potable water use: Baffinland's water license and the *Public Health Act* and associated regulations.

The water license requires reporting of daily water use, using flow meters as appropriate, for all active camp water taking locations, as described in Table 4.2. Daily water use is to be reported in monthly reports to the NWB. The total allowable daily water use for camp water supply is 60 m<sup>3</sup>.

#### Drill Water

The water license requires reporting of daily water use, using flow meters as appropriate for all exploration and geotechnical drilling water taking locations, as described in Table 4.2. Daily water use is to be reported in monthly reports to the NWB. The total allowable daily water use for drill water supply is 325 m<sup>3</sup>. There is no water quality monitoring required under the water licence for drill water use, with the exception of on-ice drilling, as discussed further below.



An exploration drill water quality monitoring program has been undertaken since 2005 at selected locations upstream (reference), downstream along the Mary River (potentially affected), and along steep seasonal flow channels that drain the rugged topographic terrain that characterizes the land surface in the vicinity of Deposits 1,2 and 3. The main objective of the monitoring program is to identify and measure Contaminants of Potential Concern (COPCs) in Mary River, both upstream at locations unaffected by drilling activities, and downstream at locations that may be potentially affected by drilling activities. Each year, the water quality monitoring program is dependent and specific to the planned scope of the drill program. The Environmental Health and Safety Superintendent will, in consultation with Operations personnel, design the annual exploration drill water quality monitoring program and ensure that it is implemented. The results of the monitoring program will be used to guide adaptive management measures, as appropriate.

#### Sewage Treatment Plant Effluent

Baffinland's water license specifies requirements to measure and report on a monthly basis both the flow (volume) of sewage effluent discharged as well as final effluent quality, to confirm that effluent quality meets the requirements of the Water License, and is acceptable for release into Sheardown Lake or the drainage ditch at Milne Inlet, as appropriate.

- a) Quantity of sewage treated (continuous)
- b) Quantity of sludge generated (tabulated)
- c) Monthly testing of final effluent quality discharged from the WWTFs, as follows:
  - o BOD<sub>5</sub> (biological oxygen demand)
  - Total suspended solids (TSS)
  - o Faecal coliform
  - o pH

In addition, Baffinland proposes to conduct the following additional monitoring, not required by the water license:

- Monthly testing of sewage influent for the following parameters:
  - BOD<sub>5</sub> (biological oxygen demand)
  - Total suspended solids (TSS)
  - Faecal coliform
  - o pH
  - Total Kjeldahl Nitrogen (TKN) plus ammonia-nitrogen
  - Total phosphorus
- Monthly testing of final sewage effluent for the following additional parameters not required by the water license:
  - o TKN plus ammonia-nitrogen
  - o Total phosphorus
- Under ice and open water testing (on Sheardown Lake) of receiving water quality for the following additional parameters not required by the water license:



- BOD5 (biological oxygen demand)
- Total suspended solids (TSS)
- Faecal coliform
- Hq o
- o Total Kjeldahl Nitrogen (TKN) plus ammonia-nitrogen
- Total phosphorus
- Dissolved Oxygen

Monitoring of effluent and receiving water quality is outlined in detail in Table 4.2. Data will be reported on a monthly basis as required by the water license, and discussed further in Section 14.

#### Bulk Fuel Storage Facilities

Precipitation will collect in the fuel tank farm containment area. The water license specifies the collection and testing of berm water prior to discharge, at the Mary River bulk fuel storage facility (MRY-6) and the Milne Inlet bulk fuel storage facility (MRY-7). Sampling should be conducted as outlined in Table 4.2.

#### General Site Drainage and Stormwater

A number of water quality monitoring stations were established throughout the Project area to collect baseline water quality. Many of the sampling sites are within local creeks or drainages both upstream and downstream of drilling, mining, crushing, stockpiling and fuel storage locations. Current water quality sampling stations at Mary River and Milne Inlet and along the Milne Inlet Tote Road are shown on Figures 1.2, 4.1 and 4.2.

Several stations are sampled on a weekly basis up and downstream of exploration drilling, while most sites are sampled on a monthly basis during periods of flow. Annual water sampling stations will be contingent on the field programs, while maintaining continuity in the database.

Runoff monitoring locations in relation to the bulk sample pit and ore stockpiles, as required by the water license, is discussed on the following section.

#### Runoff from Bulk Sample Pit and Ore Stockpiles

Baseline data collection continues on the characterization of waste rock and ore that would be generated during full-scale mining for acid generation (acid rock generation – ARD) or metal leaching (ML). The ESD predicted that the risk for ARD and ML associated with the bulk sample program was low, and this was confirmed through follow-up testing in 2008 of the materials actually generated. Monitoring of the bulk sample pit and residual ore stockpiles at the crusher location and Milne Inlet will continue in accordance with the requirements of the water license and to confirm that poor quality run-off is not being generated through ARD or ML.

Several stations are specified in the water license: MRY-9 will collect seepage from the mixed ore (hematite and magnetite) bulk sample pit. MRY-10 is seepage collection at the weathered ore



stockpile; MRY-11 and MRY-12 is seepage collection from the ore stockpiles at Mary River crusher location and Milne Inlet, respectively. Sampling parameters include the following:

- a) Field parameters (pH and total suspended solids)
- b) Metals, including arsenic, copper, lead, nickel and zinc
- c) Oil and grease

Parameters required for reporting by the water license are identified in Table 4.2.

#### On-site Kinetic Testing

On-site kinetic testing was initiated in 2007 to verify the effects of the environment on reaction rates and therefore the potential for ARD and ML associated with materials that would be generated during mine operations. This work includes the placement of rock into plastic barrels on-site and monitoring of drainage from a tap at the bottom of the barrels. Preliminary results indicate negligible risk for metal leaching. The on-site kinetic testing is one element of a broader environmental baseline program that has been undertaken to characterize waste and ore materials.

#### On-ice Drilling

On-ice drilling is critical for geotechnical investigations so that information for bridges and water crossing structures may be collected for use in design. Overall water quality, including occurrence and concentrations of suspended solids and trace metals, will be monitored in accordance with the EPP.

#### 4.8 HYDROLOGY

Seasonal hydrometric stations have been installed and operated in various locations from 2006 to 2008, and again in 2010, to characterise the hydrologic regime (timing and magnitude of flows) in the Mary River Project area. These seasonal stations are removed from the watercourses in mid-September as the rivers freeze and are re-installed in late May or early June as the rivers begin to flow. In addition, Water Survey of Canada (WSC) has been contracted since 2006 to operate year-round hydrometric stations on four large rivers within the region (Mary River, Ravn River, Rowley River and Isortoq River). This work will likely continue during 2011.

Assembled hydrology data has provided the basis for engineering design and environmental assessment of water related aspects of the proposed Mary River Project. During 2010, the Water Survey of Canada (WSC), under contract to Baffinland, continued to operate hydrometric stations on four large rivers within the region (Mary River, Ravn River, Rowley River and Isortoq River).



#### 4.9 WASTE MANAGEMENT

#### Waste Management Plan

Combustible non-hazardous solid waste will be incinerated in manufactured high efficiency diesel-fired incinerator at both Mary River and Milne Inlet. The incinerators have double burners and will burn circulated exhaust. Incinerators will be operated in accordance with manufacturers' guidance and reflected in the EPP and associated site specific procedures.

Disposal of non-hazardous bulky inert wastes, such as steel, plastics and rubber, will eventually be disposed of in the inert landfill. Empty drums will be shipped back to the vendor; damaged ones will be crushed and sent off-site for recycling. Disposal of hazardous wastes, including waste oil, is discussed below.

The inert landfill was constructed in 2010 (landfill construction was deferred in 2009), as approved by the Nunavut Water Board, and used for disposal of non-combustible, non-hazardous, bulky waste with little to no salvage value. The landfill is considered "inert" because no biodegradable or hazardous wastes are placed in the landfill – only steel, plastics, glass and rubber that has been cleaned of either oily residues or food wastes – so that the wastes do not attract animals and do not generate toxic leachate. Ash residue from the incinerators will also be placed in the landfill subject to analytical testing. Existing bulky wastes from the 1960s as well as equipment and materials associated with recent project activities, was screened for non-compatible contents and placed into the new landfill. The operation and monitoring of the landfill is in accordance with the approved operations and monitoring manual.

#### Hazardous Waste Management

Hazardous wastes associated with the project include oils, greases, antifreeze, lead acid batteries, and cleaners. Waste materials (used oil, antifreeze) will be collected in suitable containers, labelled as waste, and stored within lined containment areas until removed from site.

#### Waste Monitoring

Waste monitoring includes the visual inspection of three main components of the waste management system (described below) and the measurement and recording of <u>all wastes taken off site</u>. Part I, Item 16 of the water license requires the following to be reported on a monthly basis:

- a) The quantities in cubic meters of domestic waste, sewage and hazardous waste hauled off-site for disposal
- b) The location and name of the disposal facility for each waste type
- c) The date that each was hauled off-site for disposal, for each occasion that these are removed from the site



Prior to the availability of an on-site landfill, inert wastes were temporarily stored in designated locations at Mary River and Milne Inlet and in a manner that minimized the opportunity for wind-blown debris and animal attraction. Any wastes that are shipped off site will be recorded using an Off-Site Waste Disposal Log or equivalent developed through the EPP.

Hazardous wastes must be manifested in accordance with the Transportation of Dangerous Goods Regulations. Copies of the manifests will be forwarded to the Environmental Health and Safety Superintendent for inclusion in the monthly report to the Nunavut Water Board.

Regular visual inspection of waste management facilities will be conducted by the Environmental Health and Safety Superintendent, to ensure proper operation and adequate environmental controls are in place.

Monitoring of the <u>incinerator</u> operation involves ensuring proper operation and that appropriate wastes are incinerated.

Monitoring of the <u>inert landfill</u> involves visual inspections to ensure that only inert wastes are deposited in the landfill, and that adequate cover is provided so that wastes are contained and are not being dispersed by the wind. The Waste Disposal Facility (Landfill) Inspection Form is included in the EPP. Temporary storage locations for landfillable waste will be monitored for suitability of materials.

Hazardous materials storage areas will be inspected on a regular basis to ensure:

- a) Proper storage (including proper labelling) and containment
- b) Evidence of accidental releases, or ongoing leaks, drips or other indications of loss
- c) Identification of cracks, corrosion, or damage to tanks, protective equipment, or floors
- d) Conducting periodic inspections of waste storage areas and documenting the findings
- e) Preparing and implementing spill response and emergency plans, if required

#### 4.10 <u>OPERATIONS MONITORING</u>

In addition to specific monitoring and reporting requirements under the regulatory approvals such as the water license, QIA land lease, land use permits, and fisheries authorization as well as monitoring of project effects associated with execution of the bulk sample program, the Environmental Health and Safety Superintendent will coordinate routine inspections of various aspects of the operations. Routine inspections are conducted to confirm overall conformance with the requirements of the CEMP and companion EPP and will include inspections of all site based activities including exploration and geotechnical drilling, environmental baseline and related studies, camp operations, and bulk sample related activities.

The EPP includes a copy of the Compliance Monitoring Form used to document the findings and required actions. These reports are generated as an internal operational management tool to promote continuous improvement in environmental stewardship.



Checklists are used on a hole by hole basis for the exploration and geotechnical drill program as internal operational monitoring and compliance tools. These checklists are integrated into the EPP.

#### 4.11 <u>SOCIO-ECONOMICS</u>

#### Archaeological Resources

Archaeologists will be retained for the Project, as necessary, and will be on site conducting surveys in advance of work being undertaken in areas not previously assessed for archaeological resources. Work will not be undertaken in an area without archaeological consultation.

Compliance with the provisions of the Territorial Land Use Regulations and the Territorial Lands Act will be enforced as part of the CEMP. Known or suspected archaeological features will be avoided by applying a 30 m buffer, unless otherwise approved, and work will be stopped if archaeological resources are identified.

An operational standard providing guidance to site personnel to ensure that archaeological resources are not impacted during site operations is provided in the companion EPP.

#### Employment and Training

The current Project provides an ongoing opportunity to collect and organize information on employment, such as an inventory of skills and abilities, and the duration of employment of the workforce (i.e., short term versus for the duration of the program). This information will assist Baffinland and its consultants in understanding the "workforce ecology" of the participating communities in the region, provide a basic employee database, and enhance human resource strategies for a future full-scale mining operation. Records of successful completion of training will also be retained.



#### **SECTION 5.0 - DATA MANAGEMENT AND REPORTING**

#### 5.1 <u>DOCUMENTATION AND DATA CONTROL</u>

The Environmental Health and Safety Superintendent will coordinate the preparation, review and distribution, as appropriate, of the data and reports required for regulatory purposes. Various management plans and other regulatory deliverables will also be coordinated by the Environmental Health and Safety Superintendent.

Execution of some of the monitoring programs detailed in the CEMP and associated plans will be conducted by, or supported by consultants and contractors to Baffinland. Data and reports will be prepared and delivered to Baffinland by its consultants for internal and external distribution and use, as appropriate.

All formalized documents and reports will follow data control procedures, with revision numbers and revision tracking. Documents and data that are to be issued and liable to change will be controlled to ensure that they are approved before issue and that the current issue or revision is known to and available to those requiring them.

#### 5.2 EXTERNAL REPORTING

Implementation of the monitoring under the CEMP results in the collection of data and the generation of various reports. Whereas there are regulatory requirements for formal monthly and annual reports including disclosure of issues of non-conformance, internal reporting is used to provide direction to personnel and to provide operational updates to site and corporate management. Internal reporting mechanisms may include weekly environment reports, weekly operations reports, and routine inspection reports. Site based toolbox and management meetings are also an important internal reporting tool commonly used.

External reports will be prepared as follows:

#### Monthly Reporting

The water license requires reporting on a monthly basis, for the preceding month by the end of the following month (i.e., the August monthly report is due by September 30). Table 4.2 outlines the reporting requirements. Not all monitoring is to be reported as per the water license; some components of the monitoring program are for Baffinland's information only.

#### Annual Reporting

There are five instruments requiring reporting on an annual basis. The first two are the NIRB Screening Decisions for the Exploration and Geotechnical Drilling, and the Bulk Sampling Program, respectively. The contents of the annual report are summarized below.



## NIRB Screening Decision dated March 24, 2007 for the Exploration and Geotechnical Drilling Program - Project-specific Terms and Condition #4

The Proponent shall submit an annual report with copies provided to the NIRB, INAC, the QIA, and EC by January 31 each year that the project is in operation commencing January 31, 2008. The report must contain, but not be limited to, the following information:

- a. A summary of activities undertaken for the year, including the amount of drilling;
- b. A work plan for the following year;
- c. The results of environmental studies undertaken and plans for future studies;
- d. Wildlife encounters and actions/mitigation taken;
- e. A summary of local hires and initiatives;
- f. A summary of community consultations undertaken and the results;
- g. A summary of site-visits by inspectors with results and follow-up actions;
- h. The number of take-offs & landings from an airstrip with approved flight path with date and location:
- i. The number of helicopter touch-downs on the land with date and location (provide unless confidential);
- j. Site photos;
- k. Progressive reclamation work undertaken; and
- I. A summary of how the Proponent has complied with NIRB conditions contained within this Screening Decision and the conditions associated with all authorizations for the project proposal.

## NIRB Screening Decision dated May 4, 2007 for the Bulk Sampling Program - Project-specific Terms and Condition #5

The Proponent shall submit an annual report with copies provided to the NIRB, INAC, the QIA, Environment Canada and Government of Nunavut by January 31 each year that the project is in operation commencing January 31, 2008. The report must contain, but not be limited to, the following information:

- a. A summary of activities undertaken for the year, including any progressive reclamation work undertaken, and a work plan for the following year –site photos should be provided where relevant;
- b. A summary of how the Proponent has complied with NIRB conditions contained within this Screening Decision.
- c. A summary of the results from the Monitoring Program and the Construction Environmental Management Plan, including:
  - i. An analysis of the impact of the project upon the bio-physical and socioeconomic environments, including the cumulative impacts from other activities within the project area;
  - ii. An analysis of the effectiveness of mitigation measures;
  - iii. The identification of any unanticipated environmental impacts (if any) and any follow-up required (if relevant);
  - iv. Compliance status with applicable regulations and all authorizations associated with the project activities, including any exceedances of CCME-FWAL criteria (as reported to Environment Canada, the Nunavut Water Board, and the Department of Fisheries and Oceans Canada);



- v. Any necessary adaptive mitigation strategies employed;
- vi. Any modifications made to the Monitoring Program;
- vii. Results of community member involvement in the Monitoring Program; and
- viii. Description of the progress made on the development of component-specific thresholds used to determine the necessity for adaptive mitigation and management strategies.
- d. A summary of community consultations undertaken and the results; and
- e. A summary of site-visits by inspectors with results and follow-up actions.

### NIRB Screening Decision dated February 22, 2008 for the Exploration and Geotechnical Drilling Program - Project-specific Terms and Condition #8

The Proponent shall include in its Annual Report for Geotechnical and Exploration Program all the proposing project activities and components described in this application. In addition to the requirements directed by NIRB in its Screening Decision Report dated March 26, 2007 for 07EN004, an accumulative effects assessment should be included in the Annual Report with respective to the additive and cumulative effects by the two subprojects and the proposed expansions of the one subproject (i.e., the geotechnical and exploration project) comprising the larger Mary River project.

The requirements of the NIRB annual reports will be met with submission of a single report.

### Water License Annual Report Part B, Section 6

The Licensee shall file with the Board no later than March 31st of the year following the calendar year being reported, an Annual Report on the appurtenant undertaking which shall contain the following information:

- a. the monthly and annual volumes, in cubic metres, of all fresh water obtained from Camp Lake at Monitoring Station MRY-1, Phillips Creek at Monitoring Station MRY-2, Km 99 Lake at Monitoring Station MRY-3, and additional sources of water identified for camp use under Part C, Item 1;
- b. the monthly and annual volumes in cubic metres of all freshwater obtained for the purpose of drilling and other associated uses;
- c. the monthly and annual volume in cubic meters of treated Sewage effluent discharged at Monitoring Station MRY-4, Mary River Camp WWTF at Monitoring Station MRY-5, and at Milne Inlet Camp WWTF Monitoring Station at MRY-5 along with any waters discharged from the respective PWSPs;
- d. the monthly and annual volumes in cubic metres of Sludge removed from the Waste Water Treatment Facilities at Mary River Camp and Milne Inlet Camp and details on the storage and/or disposal;
- e. a summary, including photographic records before, during and after construction activities, of any modifications and/or major maintenance work carried out on the Water Supply and the Wastewater Treatment Facilities, including all associated structures, and an outline of any work anticipated for the next year;
- f. the geochemical analysis of drill cores as per Part F, Item 3;



g. a detailed discussion on the performance, installation, and evaluation, including the use of photographic record, of the primary and secondary containment functions used in fuel storage to safeguard impacts to freshwaters;

h. a list of unauthorized discharges and a summary of follow-up action(s) taken;

i. a brief description of follow-up action(s) taken to address concerns presented within inspection and compliance reports prepared by the Inspector;

j. an update, where required under Part B, Item 11, in the form of an addendum or revision to the Abandonment and Restoration Plan, Emergency Spill Response Plan, Site Water Management Plan, Waste Water Management Plan, Waste Rock and Ore Storage Plan, QA/QC, Landfill Operations and Maintenance Plan, and Landfarm Plan;

k. a description of all progressive and or final reclamation work undertaken, including drill sites, presented with photographic records of site conditions before, during and after completion of operations;

I. an updated estimate of the current restoration liability required under Part B, Item 2, based upon the results of progressive restoration, restoration research, project development monitoring, and any changes or modifications to the project;

m. tabular summaries of all data generated under the Monitoring Program, Part I;

- n. a summary of public consultation/participation, describing consultation with local organizations and residents of the nearby communities, if any were conducted:
- o. a summary of any specific studies or reports requested by the Board, and a brief description of any future studies planned or proposed; and
- p. any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.

The **DFO** authorization (**NU-06-0084**) stipulates that a written report summarizing the above monitoring results shall be submitted to the Iqaluit, NU office of the Department of Fisheries and Oceans - Fish Habitat Management, Eastern Arctic Area on, or before, December 31 of each year, according to the schedule in section 5.2.

#### The QIA Commercial Lease for Inuit Owned Lands (No. Q10C3001) Clause 6.01 (g)

The Tenant hereby covenants with the Landlord that it shall, at its own cost and expense:

- (g) deliver to the Landlord, on or before March 1, 2011, and not later than March 1<sup>st</sup> of each subsequent year of the Term, a report, in form and scope satisfactory to the Landlord in respect of all environmental issues arising in respect of the Tenant's Operations and Work on the Property for the past calendar year, which report shall include:
- (1) information respecting the Tenant's compliance with the terms of this Lease and any permits or licenses required in respect of its Operations on the Property, together with details of any incidents of non-compliance, the results of any inspection reports prepared by or fines levied by any competent regulatory authority and any remedial action relating thereto;
- (2) copies of any environmental reports, or incident reports; or incident reports or documentation relating to project changes on environmental matters that the Tenant is required to submit to any competent regulatory authority;
- (3) copies of any environmental monitoring reports or environmental studies in respect of the Property prepared for the Tenant, together with any interpretation or analysis of the data contained therein done by the Tenant or its agents or consultants; and



(4) a report on any Reclamation Work undertaken or required to be undertaken in accordance with this Lease.

The **QIA Commercial Lease for Inuit Owned Lands (No. Q10C3001)**: Schedule "D" Role, Responsibilities, and Authority of Environmental Inspector and Environmental Auditor - Liquidated Damages

17. If the Tenant contravenes any environmental obligation of this Lease, including failure to comply with the Environmental Terms and Conditions or any of the provisions of an Environmental Action Plan, or contravenes a direction or order issued by an Environmental Inspector or Environmental Auditor, the Tenant shall immediately notify the Landlord of such contravention in writing. The Tenant will then, within 15 days of such notification, present a plan to the Landlord to resolve the issue, such plan to be approved by the Landlord acting reasonably.



#### TABLE 2.1

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN STATUS OF COMPLIANCE WITH CONDITIONS, APPROVALS AND COMMITMENTS

ITEM  NIRB Screening Decision March 24, 2007 - NIRB Recommendations and Recommended Condi	DEL MESSAGE E	27.710
1 Indian and Northern Affairs Capada (INAC) impose similar mitigation measures and/or conditions pursuant to the Federal Land Use Permit to those which were imposed upon Raffinland Iron Mines Compration (the Proposent) on June 29 2004 in repart to	DELIVERABLE lions	STATUS
1. India and Northern Affairs Canada (INAC) impose similar mitigation measures and/or conditions pursuant to the Federal Land Use Permit to those which were imposed upon Baffinland fron Mines Corporation (the Proponent) on June 29, 2004, in regard to: a. Location and Afec; b. Time c. Equipment d. Methods and Techniques e. Type, Location, Capacity and Operation of Facilities		
e. 1 yea, Location, Capacity and Operation of a Sciilles  f. Contrio of Prevention of Poioding, Scriation and Subidence of Land  g. Use, Storage, Handling and Disposal of Chemical or Toxic Material  h. Wildlife and Fisheries Habitat  l. Objects and Places of Recreational, Scenic and Ecological Value  J. Petroleum Fisheries Habitat  l. Objects and Places of Recreational, Scenic and Ecological Value  J. Petroleum Fisheries Habitat  l. Objects and Places of Recreational, Scenic and Ecological Value  J. Petroleum Fisheries Habitat  l. Objects and Places of Recreational, Scenic and Ecological Value  J. Petroleum Fisheries Habitat  J. P	INAC Land Use Permits N2006C0036 and N2007F0004	Completed by INAC
k. Matters Not Consistent with the Regulations		
2. The Cikidpan Inuti Association (QIA) impose mitigation measures and/or conditions pursuant to the Inuit Owned Lands License upon the Proponent in regard to: a. General Standards b. Fuel and Chemical Storage c. Drilling d. Camosities		
e. Fisheries 1. Ground Disturbance g. Other General N. Any other conditions recommended by the appropriate Community Lands and Resource Committee	QIA Commercial Lease for IOL Q07L3C001	Completed by QIA
T. Any other continuous recommended by the appropriate continuing Lance and resource Committee     The QIA require the Proponent to follow the QIA Code of Conduct for Land Users.	QIA Commercial Lease for IOL Q07L3C001	Completed by QIA
NIRB Screening Decision March 24, 2007 - NIRB Recommended Project-Specific Terms and Con 1. Baffinland from Mines Corporation (the Proponent) shall maintain a copy of this Screening Decision at the site of operation at all times.	ditions N/A	Copies are on site
<ol> <li>The Proponent shall forward copies to NIR8 of all permits obtained and required for this project prior to the commencement of the project.</li> <li>The Proponent shall operate in accordance with commitments stated in Appendix A and all documentation provided to NIR8, INAC, the QIA and the Nunavut NWB. Where information in the documentation conflicts with Appendix A appendix A shall prevail.</li> </ol>	Letter to NIRB dated June 8, 2007	Complete
4. The Proponent shall submit an annual report with copies provided to the NRB, INAC, the QIA, and EC by January 31 each year that the project is in operation commencing January 31, 2008. The report must contain, but not be limited to, the following information:	N/A	Ongoing
A summary of activities undertaken for the year, including the amount of drilling:     D A work plan for the following year.     D A work plan for the following year.     C. The results of environmental studies undertaken and plans for future studies;     dWildlife enouriers and actions/millingation taken;	2007 Annual Report to the Nunavut Impact Review Board (Knight Présold Ref. No. NB102-00181/11-1, Rev. 0, dated January 25, 2008) 2008 Annual Report to the Nunavut Impact Review Board	
e. A summary of local hires and initiatives;  £. A summary of community consultations undertaken and the results; g. A summary of soft-walts by inspectors with results and follow-up actions;	(Baffinland, 2009) 2009 Annual Report to the Nunavut Impact Review Board (Baffinland, 2010)	Completed annually. Due January 31 each year starting in 2008
In. The number of take-offs & landings from an airstrip with approved flight path with date and location; L. The number of lake-offs & landings from an airstrip with approved flight path with date and location; L. The number of lake-offs & landings from an airstrip with approved flight path with date and location (provide unless confidential); L. Site protos; R. Progressive reclamation work undertaken; and	2010 Annual Report to the Nunavut Impact Review Board (Baffinland, 2011)	
L. A summary of how the Proponent has compiled with NIRB conditions contained within this Screening Decision, and the conditions associated with all authorizations for the project proposal  5. Immediately upon clarification regarding the commitment of the Proponent to participate in a Government of Nuravut Department of Environment (GN-DOE) caribou collaring initiative with the GN-DOE, the Proponent shall submit to NIRB relevant documentation		
providing evidence of the commitments of the Proponent and the GN-DOE in this regard.  6. On or before May 31, 2007, the Proponent shall submit to NIRB, the NWB, the QIA and the Department of Fisheries and Oceans Canada (DFO) a report describing all possible locations where water-taking may result in a water body being drawn down. This report	Memorandum of Understanding (Signed in late 2007)	Complete
must include: a. Effects analysis of water draw-down in these locations; b. Proposed mitigation/abatement measures for potential adverse effects; and		
c. Monitoring and follow-up strategies regarding water draw down effects.  7. On or before May 31, 2007, the Proponent shall submit to NIRB. Environment Canada (EC), the QIA and the NWB a comprehensive Water Quality Monitoring and Management Program. ThisWater Quality Monitoring and Management Program may include the elements of the Selic Water Management Plan (dated February 20, 2007 – to be submitted to the NWB ninety (90) days following the issuance of the water (iconse) and any monitoring requirements included in the NWB water license and must also include:	Site Water Management Plan (Knight Piésold Ref. No. NB102-00181/10-5, Rev. 1, dated March 31, 2008)	
a Details of the weekly monitoring program, such as monitoring locations, frequency of sampling, and parameters monitored; b. Guidelines used in the monitoring program, such as Canadian Council of Ministers for the Environment guidelines for the protection of freshwater aquatic life (CCME-FWAL), and any site-specific criteria established by the NWB; c. Operational procedures intended to mitigate the potential adverse effects to water quality, including those from drill wastes;	(Kniight Piesold Net. No. NETUZ-UD181710-5, Rev. 1, dated March 31, 2008) Site Water Management Plan (Baffinland, dated March 31, 2009 Site Water Management Plan	Complete
d. Anticipated adaptive management strategies to deal with adverse impacts identified from the 2007 and 2008 monitoring program, including: i. Description of alternable methods of containment for waste deposition which may be considered by the Proponent; ii. Criteria the Proponent will use when considering the requirement for adaptive management. The requirement to report any exceedences of COME-PMAL to Environment Clanada, NWB, and DFO	(Baffinland, dated March 31, 2010)	
E. He requirement of report any succession country fract to Limitatinient caleboa, first of		
8. The Proponent shall ensure that the Wastewater Treatment Plan Design and Operations/Maintenance (OM) Report to be submitted to the NWB for approval, must address design criteria such as: a. Identification of control parameters (COD/BODS, TSS, heavy metals): b. Corresponding discharge limits;	Waste Water Management Plan for Mary River and Milne Inlet Camp Sites	
Conceptional designation and a second of the	(BH Martin Consultants Inc., Report Reference No. 06-090, dated September 15, 2007)  Wastewater Management Plan  (Baffinland, dated March 31, 2009)  Wastewater Management Plan	Complete
A De Constability of Tarrest Conference on the C	(Baffinland, date March 31, 2010)  Aeronautical Obstruction Clearance Form	
The Proposent shall consult Transport Canada's Canadian Aviation Regulations to ensure compliance where appropriate     Proposent shall consult Transport Canada's Canadian Aviation Regulations to ensure compliance where appropriate     Proposent shall consult Transport Canada's Canadian Aviation Regulations to ensure compliance where appropriate     Proposent shall consult Transport Canada's Canadian Aviation Regulations to ensure compliance where appropriate     Proposent shall consult Transport Canada's Canadian Aviation Regulations to ensure compliance where appropriate     Proposent shall consult Transport Canada's Canadian Aviation Regulations to ensure compliance where appropriate     Proposent shall consult Transport Canada's Canadian Aviation Regulations to ensure compliance where appropriate     Proposent Shall Canadian Aviation Regulations to ensure compliance where appropriate     Proposent Shall Canadian Aviation Regulations to ensure compliance where appropriate     Proposent Shall Canadian Aviation Regulations to ensure compliance where appropriate     Proposent Shall Canadian Aviation Regulations to ensure compliance where appropriate     Proposent Shall Canadian Aviation Regulations to ensure compliance where appropriate     Proposent Shall Canadian Regulations to ensure compliance where appropriate     Proposent Shall Canadian Regulations to ensure compliance where appropriate Regulation Regulati	Aeronautical Obstruction Clearance Form Land Use Proposal Submission Form	Requisite forms submitted to Transport Canada
	Archaeology Assessment Report (Knight Présold Ref. No. NB07-00348, dated April 30, 2007)	
	2007 Archaeology Investigations Final Permit Report (Points West Heritage Consulting Ltd. NU Archaeologists Permit 2007-017A, dated May 31, 2008) Steensby Inlet 2008 Archeological Investigations Final Permit Report (Knight Piesold Ref. No. NB102-181/15-A.01, dated March, 2009)	Complete
	2008 Archeological Investigations Northern Section Final Report (Knight Piesold Ref. No. NB102-181/15-A.01, dated March 20, 2009) Pinard Claude 2011	Comprete
	Mary River Project, Nunavut, 2010 Archaeological Investigations. Final Permit Report (NU Archaeologist's Permit 2010-026A).	
11. The Proponent shall adhere to conditions stated in attached Appendix B Archaeological and Palaeontological Resources – Terms and Conditions for Land Use Permit Holders.	N/A	Incorporated into Environmental Protection Plan (EPP)
12. On or before May 31, 2007, the Proponent shall submit a report describing all ongoing baseline research activities to NIRB, GN-DOE and the QIA, which must include: a. Summary of the activities in the 2007 Environmental Baseline Program; and b. Protocols to be followed by researchers to reduce unnecessary impacts to the environment from research activities.	Summary Report on Baseline Activities	
	Summary Report on assenine activities (Knight Piésold Ref. No. NB07-00484, dated June 8, 2007)	Complete
13. On or before May 31, 2007, the Proponent shall submit a Wildlife Miligation and Monitoring Plan to NRB, the GN-DOE, and the QIA, which must include:  a. All relevant baseline terrestrial data collected by the Proponent from previous baseline research activities; b. Predicted imposts to wildlife from origical activities (wildlife assessment recit:		
c. Proposed site-specific measures to reduce anticipated adverse impacts to wildlife, including adaptive management measures and all relevant Proponent commitments in Appendix A; d. Proposed measures for wildlife monitoring, and e. proposed measures for wildlife monitoring and e. proposed proposed measures for wildlife and proposed measures for wildlife monitoring.	Wildlife Monitoring and Mitigation Plan (Knight Piésold Ref. No. NB102-00181/7-4, Rev. 0, dated August 15, 2008)	Complete
Any subsequent direction provided by the Government of Nunavut regarding the Wildlife Mitigation and Monitoring Plan must be forwarded to NIRB.	(Nilgrit Presoud Ref. No. No (02-00 to 117-4), Rev. U, dated August 15, 2006)	
14. The Proponent shall submit its updated Spill Contingency Plan and Abandonment and Restoration Plan to NIRB, INAC, QIA and the NWB immediately.		
	Spill Contingency Plan (Qikiqtaluk Emiromental, March 2008) (Baffinland, March 31 2009)	
	(Baffinland, March 31, 2010) (Baffinland, March 1, 2011) (Mand March 1, 2011) (Knight Pielosid Ref. No. NB102-001816-7, Rev. 2, dated March 31, 2008)	Complete
	2009 Abandonment & Reclamation Plan (Knight Piesold Ref. No. NB102-181/15-1, Rev. 0, dated March 26, 2009) 2010 Abandonment & Reclamation Plan	
	(Baffinland, dated March 31, 2010) 2011 Abandonment & Reclamattion Plan (Baffinland, dated March 1, 2011)	
15. The Proponent shall ensure that the disposal of combustible camp wastes comply with the Canadian Wide Standards for Dioxins and Furans, and the Canadian Wide Standards for Mercury. Efforts made to achieve compliance shall be reported to the NIRB as part of the annual report.		
	2007 Annual Report to the Nunavut Impact Review Board (Knight Piësold Ref. No. NB102-00181/11-1, Rev. 0, dated January 25, 2008) 2008 Annual Report to the Nunavut Impact Review Board	
	(Baffinland, 2009) 2009 Annual Report to the Nunavul Impact Review Board (Baffinland, 2010)	Completed annually. Due January 31 each year starting in 2008
	2010 Annual report to the Nunavut Impact Review Board (Baffinland, 2011)	
16. The Proponent shall not conduct any activity associated with the land use operation if critical periods of wildlife cycles are observed (e.g. caribou migration, calving, fish spawning, raptor nesting, polar bear movement).	N/A	Incorporated into EPP and project design
NIRB Screening Decision March 24, 2007 - Appendix A Proponent Commitments     Submission of an Archaeological Assessment Report to Government of Nunawut Department of Culture, Language, Elders and Youth		
	Archaeology Assessment Report (Knight Plésold Ref. No. NB07-00348, dated April 30, 2007)	
	2007 Archaeology Investigations Final Permit Report	
	(Points West Heritage Consulting Ltd. NU Archaeologist's Permit 2007-017A, dated May 31, 2008)  Steensby Inlet 2008 Archeological Investigations Final Permit Report	
	(Points West Heritage Consulting Ltd. NU Archaeologist's Permit 2007-017A, dated May 31, 2008) Steety Jinlet 2008 Archaeological Investigations Final Permit Report (Knight Piesoid Ref. No. NB102-181/15-A.01, dated March, 2009) 2008 Archaeologial Investigations Northern Section Final Report (Knight Piesoid Ref. No. NB102-181/15-A.01, dated March 20, 2009) Pipard Claude 2011	Complete
	(Points West Heritage Consulting Ltd. NU Archaeologist's Permit 2007-017A, dated May 31, 2008) Steensby Inlet 2088 Archeological Investigations Final Permit Report (Knight Piesoid Ref. No. NB102-181/15-A.01, dated March, 2009) 2008 Archeological Investigations Northern Section Final Report (Knight Piesoid Ref. No. NB102-181/15-A.01, dated March 20, 2009)	Complete
	(Points West Heritage Consulting Ltd. NU Archaeologist's Permit 2007-017A, dated May 31, 2008) Stensby Inlet 2008 Archaeological Investigations Final Permit Report (Kright Plesiol Ref. No. NB102-181/15-A.01, dated March, 2009) 2008 Archeological Investigations Northern Section Final Report (Kright Plesiol Ref. No. NB102-181/15-A.01, dated March 20, 2009) Pland Claude 2011 Mary River Project, Nunavut, 2010 Archaeological Investigations. Final Permit Report (NU Archaeologist's Permit 2010-028A).	
Continue collecting and compiling wildlife baseline data, and identify critical habitat and avoid impacts based on current knowledge     Support a Covernment of Nunavut initiated carrbou collaring program and a peregrine falcon research project, in addition to Balfinland's baseline studies	(Points West Heritage Consulting Ltd. NU Archaeologist Permit 2007-071A, dated May 31, 2008) Steenby Inlet 2008 Archaeological Investigations Final Permit Report (Kright Pleadid Ret. No. NB102-181/15-A.01, dated May 1AC) 2008 Archeological Investigations Northern Section Final Report (Kright Pleadid Ret. No. NB102-181/15-A.01, dated March. 200) 2008 Archeological Investigations Northern Section Final Report (Kright Pleadid Ret. No. Pinard Claudic 2011 4008 Pleadid Ret. No. Pinard Claudic 2011 4008 Pleadid Ret. No. Pinard Claudic 2011 4008 Archaeologist Investigations. Final Permit Report (NU 4008 Archaeologist Permit 2010-028A) 4008 NIVA 4008 Migrad for Caribou Collaring Program, Peregrine falcon research program initiated in 2007 with Baffinland support	Complete  Ongoing  Complete
2. Continue collecting and compiling widdlife baseline data, and identify critical habitat and avoid impacts based on current knowledge 3. Support a Covernment of Nunevat initiated carrbox collering program and a peregrine falcon research project, in addition to Ballinfand's baseline studies 4. Conduct a wildlife assessment report for submission to BOE for mid-April 2007 5. Comply with carrbox protection measures	(Points West Heritage Consulting Ltd. NU Archaeologist Permit 2007-017A, dated May 31, 2008) Stensby Inlet 2008 Archaeological Investigations Final Permit Report (Kright Plesoid Ref. No. NB102-181/15-A.01, dated March. 2009) 2008 Archeological Investigations Northern Section Final Report (Kright Plesoid Ref. No. NB102-181/15-A.01, dated March 20, 2009) Parmed Claude 2011 Mary River Project, Nunavut. 2010 Archaeological Investigations. Final Permit Report (NU Archaeologist S Permit 2010-028A).  NIA  MOU Signed for Caribou Collaring Program, Peregrine falcon research program initiated in 2007	Ongoing
Conduct a wildlife assessment report for submission to DOE for mid-April 2007	(Points West Heritage Consulting Ltd. NU Archaeologist Permit 2007-017A, dated May 31, 2008) Steenby Inlet 2008 Archaeological Investigations Final Permit Report (Kright Plesid Ref. No. NB102-181/15-A.01, dated March, 2009) 2008 Archeological Investigations Northern Section Final Report (Kright Plesid Ref. No. NB102-181/15-A.01, dated March 20, 2009) Mary River Project, Nunavut, 2010 Archaeological Investigations. Final Permit Report (NU Archaeologat's Permit 2010-02/A).  NIA  MOU Signed for Caribou Collaring Program, Peregrine falcon research program initiated in 2007 with Baffinand support Wildlife Assessment Report	Ongoing Complete
4. Conduct a wildlife assessment report for submission to DOE for mid-April 2007  5. Comply with caribou protection measures  6. Contact local HTO and Wildlife Officer in the event of a defense polar bear bill.	(Points West Heritage Consulting Ltd. NU Archaeologist's Permit 2007-071A, dated May 31, 2008) Steenby Intel 2008 Archaeologisal Investigations Final Permit Report (Kright Pleade Ret. No. NS 102-181/15-A.01, dated March. 2009) 2008 Archeologisal Investigations Northern Section Final Report (Kright Pleade) Ret. No. NS 102-181/15-A.01, dated March. 20, 2009) (Mary River Project, Nunavut, 2010 Archaeologisal Investigations. Final Permit Report (NU Archaeologist's Permit 2010-026A).  Mary River Project, Nunavut, 2010 Archaeologisal Investigations. Final Permit Report (NU Archaeologist's Permit 2010-026A).  NIA MOU Signed for Caribou Collaring Program: Peregyine falcon research program initiated in 2007 Wildliffs Assessment Report (Kriight Pleaded Ret. No. NE07-00412, dated May 5, 2007)	Ongoing Complete Complete
4. Conduct a wildlife assessment report for submission to DQE for mid-April 2007  5. Comply with caribou protection measures	(Points West Heritage Consulting Ltd. NU Archaeologist Permit 2007-017A, dated May 31, 2008) Steenby Inlet 2008 Archaeological Investigations Final Permit Report (Kright Plesiod Ref. No. NB102-181/15-A.01, dated March. 2009) 2008 Archaeological Investigations Northern Section Final Report (Kright Plesiod Ref. No. NB102-181/15-A.01, dated March. 20, 2009) Mary River Project, Nunavut. 2019 Archaeologist September Section Final Permit Report (NU Archaeologists Permit 2010-028A).  N/A  MOU Signed for Caribou Collaring Program: Peregrine falcon research program initiated in 2007 with Baffiniand support  (Kriight Plesiod Ref. No. NB07-00412, dated May 5, 2007)  N/A	Ongoing Complete Complete incorporated into EPP
4. Conduct a wildlife assessment report for submission to DOE for mid-April 2007  5. Comply with caribou protection measures  6. Contact local HTO and Wildlife Officer in the event of a defense polar bear kill.  7. Initiate discussions with the Mittimatalik Hunters and Trappers Organization and Iglionlik Hunters and Trappers Association regarding compensation for any future defense kills of polar bear  8. Undertake the following with respect to air traffic:  8. Undertake the following with respect to air traffic:  8. Undertake the following with respect to air traffic:  8. Undertake the following with respect to air traffic:  8. Undertake the following with respect to air traffic:  9. All following with respect to air traffic:	(Points West Heritage Consulting Ltd. NU Archaeologist Permit 2007-017A, dated May 31, 2008) Steenby Inlet 2008 Archaeologisal Investigations Final Permit Report (Kright Pleadid Ret. No. NB 102-181/15-A.01, dated March. 2009) 2008 Archeologisal Investigations Northern Section Final Report (Kright Pleadid Ret. No. NB 102-181/15-A.01, dated Natch. 20, 2009) 2008 Archeologisal Investigations Archeologisal Ret. Natch. 20, 2009) Mary River Project, Nunavut, 2019 Archaeologisal Investigations. Final Permit Report (NU Archaeologist's Permit 2010-028A).  MAC NUL Signed for Caribou Collaring Program, Presignin falcon research program initiated in 2007 with Baffinland support  Wildlife Assessment Report (Kriight Pleadid Ret. No. NB07-04-12, dated May 5, 2007)  N/A  N/A	Ongoing Complete Complete Incorporated into EPP
4. Conduct a wildlife assessment report for submission to DOE for mid-April 2007  5. Comply with carbou protection measures  6. Contact local HTO and Wildlife Officer in the event of a defense polar bear kill.  7. Initiate discussions with the Mitimatalik Hunters and Trappers Organization and Igloolik Hunters and Trappers Association regarding compensation for any future defense kills of polar bear  8. Undertake the following with respect to air traffic: a. Minimize the number of flights b. traplement a 61 on flight alliable minimum and 1,000 n flight alliable minimum near concentrations of bids with exceptions where required: b. traplement a 61 on flight alliable minimum and 1,000 n flight alliable minimum near concentrations of bids with exceptions where required: b. traplement a 61 on flight alliable minimum and 1,000 n flight alliable minimum near concentrations of bids with exceptions where required: b. traplement a 61 on flight alliable minimum and 1,000 n flight alliable minimum onear concentrations of window, and with exceptions of bids with exceptions where required: b. traplement a 61 on flight alliable minimum and 1,000 n flight alliable minimum onear concentrations of window, and with exceptions of window, and with exceptions of earther routes	(Points West Heritage Consulting Ltd. NU Archaeologist Permit 2007-071A, dated May 31, 2008) Steenby Intel 2008 Archaeologisal Investigations Final Permit Report (Knight Plesiod Ref. No. NB 102-181/15-A.01, dated March. 2009) 2008 Archaeologisal Investigations Northern Section Final Report (Knight Plesiod Ref. No. NB 102-181/15-A.01, dated March. 20, 2009) Mary River Project, Nunavut, 2019 Archaeologisal Investigations. Final Permit Report (NU Archaeologist Sermit 2016-026A).  NA MOU Signed for Caribou Collaring Program: Perspire fation research program initiated in 2007 with Estimated support (Knight Plesiod Ref. No. NB07-03412, dated May 5, 2007)  N/A  N/A  N/A  N/A	Ongoing Complete Complete theorporated into EPP Incorporated into EPP Complete
4. Conduct a wildlife assessment report for submission to DOE for mid-April 2007  5. Comply with caribou protection measures  6. Contact local HTO and Wildlife Officer in the event of a defense polar bear bill.  7. Initiate discussions with the Mittimatalik Hunters and Trappers Organization and Igloolik Hunters and Trappers Association regarding compensation for any future defense kills of polar bear  8. Undertake the following with respect to air traffic:  a. Minimize the number of flights  b. Implement a 610 m flight altitude minimum and 1,000 m flight altitude minimum near concentrations of birds with exceptions where required;  c. Avoid carbou calving grounds between May 15 and July 15. After July 15, post-calving areas known to have aggregations of carbou will be avoided  d. Avoid a large concentration of wildlife, (i.e., Migratory Sird Sanctuaries, Preeding colonies and carbou calving grounds between Courtenance of wildlife  9. Flowring or circling may greatly increase disturbances and must be avoided  10. Use flow-dwing prounds between coopers or will be avoided  11. Use flow-dwing prounds between possible  12. Use flow-dwing prounds between possible  13. Use flow-dwing prounds between possible  14. Use flow-dwing prounds between possible  15. Use flow-dwing prounds proving	(Points West Heritage Consulting Ltd. NU Archaeologist Permit 2007-017A, dated May 31, 2008) Steenby Inlet 2008 Archaeologisal Investigations Final Permit Report (Kright Pleadid Ret. No. NB 102-181/15-A.01, dated March. 2009) 2008 Archeologisal Investigations Northern Section Final Report (Kright Pleadid Ret. No. NB 102-181/15-A.01, dated Natch. 20, 2009) 2008 Archeologisal Investigations Archeologisal Ret. Natch. 20, 2009) Mary River Project, Nunavut, 2019 Archaeologisal Investigations. Final Permit Report (NU Archaeologist's Permit 2010-028A).  MAC NUL Signed for Caribou Collaring Program, Presignin falcon research program initiated in 2007 with Baffinland support  Wildlife Assessment Report (Kriight Pleadid Ret. No. NB07-04-12, dated May 5, 2007)  N/A  N/A	Ongoing Complete Complete Incorporated into EPP
A. Conduct a wildlife assessment report for submission to DQE for mid-April 2007  5. Comply with caribou protection measures  6. Contact local HTO and Wildlife Officer in the event of a defense polar bear kill.  7. Initiate discussions with the Mittimatalik Hunters and Trappers Organization and Igloolik Hunters and Trappers Association regarding compensation for any future defense kills of polar bear  8. Undertake the following with respect to air traffic: a. Minimize the number of flights b. Implement a 10 m flight altitude minimum and 1,000 m flight altitude minimum near concentrations of birds with exceptions where required: b. Implement a 10 m flight altitude minimum and 1,000 m flight altitude minimum near concentrations of birds with exceptions where required: b. Implement a 10 m flight altitude minimum and 1,000 m flight altitude minimum near concentrations of birds with exceptions where required: b. Implement a 10 m flight altitude minimum near concentrations of birds with exceptions where required: b. Implement and the man to the proper of the concentration of wildlife (i.e. Migratory Bird Sampatory Bird	(Points West Heritage Consulting Ltd. NU Archaeologist Permit 2007-071A, dated May 31, 2008) Steenby Intel 2008 Archaeologisal Investigations Final Permit Report (Kright Plesiod Ref. No. NB 102-181/15-A.01, dated March. 2009) 2008 Archaeologisal Investigations Northern Section Final Report (Kright Plesiod Ref. No. NB 102-181/15-A.01, dated March. 20, 2009) Mary River Project, Nunavut, 2019 Carbaeologisal Investigations. Final Permit Report (NU Archaeologist Sermit 2016-026A).  NA MOU Signed for Caribou Collaring Program, Peregrine fation research program initiated in 2007 with Edifficient Support (Kright Plesiod Ref. No. NB07-0412, dated May 5, 2007)  N/A  N/A  N/A  N/A  N/A  N/A	Ongoing Complete Complete theorporated into EPP Incorporated into EPP Complete
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Conduct a wildfile assessment report for submission to DOE for mid-April 2007  Comply with carbou protection measures  Comply with carbou protection measures  Contract local HTO and Wildfile Officer in the event of a defense polar bear kill.  Thistate discussions with the Mittimatalik Hunters and Trappers Organization and Igloolik Hunters and Trappers Association regarding compensation for any future defense kills of polar bear  Lindentals the following with respect to air traffic.  Lindentals the following prounds between My 15 and July 15. After July 15, post-advanced are constructed or with a construction of which we aggregations of carbou will be exceptions where required:  Lindental all single contents before My 15 and July 15. After July 15, post-advanced are carbou calving grounds), and take alternate routes  Lindental will be within the state of which the section will be used of which the section will be within a should be added to the post-advance and must be avoided  Lindental policy of the wildle carbon and such as a post-advance and must be avoided  Lindental policy of the wildle following within 30m of a water body  Management plan of drill water to the drill file, but affet and chased drilling locations  Lindental policy of the wildle following within 30m of a water body  Management plan of drill water to the drill file, but affet and deposed drilling locations  Lindental policy of the substitution of the wildle following within 30m of a water body  Managem	(Points West Heritage Consulting Ltd. NU Archaeologist Permit 2007-071-70, dated May 31, 2008)  Steenby Intel 2008 Archaeologial Investigations Final Permit Report ((Vinght Pleadel Ref. No. NB 102-181/15-A. 01, dated March. 2009) 2008 Archeologial Investigations Northern Section Final Report ((Vinght Pleadel Ref. No. NB 102-181/15-A. 01, dated March. 2009) (Mary River Project, Nunavut, 2010 - Pipard Clauste 2011  Mary River Project, Nunavut, 2010 - Pipard Clauste 2011  NNA  MOU Signed for Caribou Collaring Program. Peregrine falcon research program initiated in 2007 with Baffiniand Support  Wildlife Assessment Report (Knight Pleadel Ref. No. NB07-00412, dated May 5, 2007)  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	Ongoing Complete Complete Incorporated into EPP Incorporated into EPP Complete Incorporated into EPP
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#### TABLE 2.1

#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN STATUS OF COMPLIANCE WITH CONDITIONS, APPROVALS AND COMMITMENTS

	STATUS OF COMPLIANCE WITH CONDITIONS, APPROVALS AND COMMITMENTS	DELIVERABLE	STATUS
Company		Abandoment and Reclamation Plan (Knight Plead fixet Ne. NB102.0015 lib.7, Rev. 2, dated March 31, 2008) 2004 Abandoment & Reclamation Plan (Knight Plead fixet Ne. NB102.1015 lib.7, Rev. 0, dated March 22, 2009) (Knight Plead fixet Ne. NB102.1015 lib.7, Rev. 0, dated March 22, 2009) 2010 Abandoment & Reclamation Plan (Baffinland, dated March 31, 2010) 2011 Abandoment & Reclamation Plan	
March   Marc			
The content of the			·
The proposed and p	23. On-going monitoring of polar bears with appropriate plans implemented as needed	N/A	Incorporated into EPP
	24. Continuation of weekly water quality monitoring program 25. Seek approval from NWB regarding sewage treatment plant and enlargement of sumps, if required		Incorporated into CEMP
		(BH Martin Consultants Inc., Report Reference No. 06-090, dated September 15, 2007)  Wastewater Management Plan  (Baffinland, dated March 31, 2009)	Complete
		is	
March   Company   Compan	Batfinland fron Mines Corporation (the Proponent) shall otherwise operate in accordance with all commitments stated in all documentation provided to NIRB, namely:     a. Correspondence dated April 20, 2007 from Derek Chubb to Carolanne Inglis-McQuay, including the table addressing Parties' concerns		
	The bulk sample pits are designed to be self draining to remove the potential for snow and rain precipitation to accumulate, thereby further reducing the potential for acid generation and metal leaching by removing pit wall contact with standing water. (response to Hamilet of Pond Iniet PI-1, Table 1, pg 5)(response to QIA-1, Table 2, pg 14) (response to GN-3, Table 3, pg 27) (response to GN-10, Table 3, pg 33)(response to EC-2, Table 4, pg 46) (response to RA-3, Table 7, pg 56)	N/A	Ore extraction areas are self-draining.
	plans would require incorporating calcareous materials (sandstone, sends and gravel with buffering capacity) into the design of the small weathered ore stockpiles and test pits developed to extract the bulk sample. The costing in the Abandonment and Restoration Plan (ASR Plan) will be undefined to include contingenopy costs associated with these configency plans, and the revised ASR Plan will be submitted to the Numant Water Board in the near future. Test results will be availabled in advance of the collection of the actual	(Knight Pleadid Ref. No. NB102-001818-7. Rev. 2. dated March 31, 2008) 2009 Abandomment & Reclamation Plan (Knight Pleadid Ref. No. NB102-1811/5-1. Rev. 0. dated March 26, 2009) 2010 Abandomment & Reclamation Plan (Baffinland, dated March 31, 2010) 2011 Abandomment & Reclamation Plan 2011 Abandomment & Reclamation Plan	Complete
Part	Baffinland will upgrade the proposed sewage treatment plant at the Mary River camp to meet tertiary treatment levels by including nutrient removal in its design (response to Hamilet of Pond Inlet PI-1, Table 1, pg 6) (response to GN-4, Table 3, pg 28)(response to INAC-1, Table 7, pg 54)	Mary River Project - Rotating Biological Contactor (RBC) Sewage Treatment System As-	Complete
The content of the	which will be lined and located near to Sheardown Lake, would be available to receive sewage from the Rotating Biological Contractor (RBC) system as a contingency measure in the event of RBC malfunction. Discharge to a pond system would provide an		
Section   Company		(BH Martin Consultants Inc., Report Reference No. 06-090, dated January 7, 2009) Mary River Project - Rotating Biological Contactor (RBC) Sewage Treatment System As- Constructed Report (Genivar, Report Reference No. 06-090, July 25, 2009) Mary River Project - Waste Water Management Plan (March 2010) see Appendices for updated	Mary River camp. Two ponds are in use, and the third was
Company   Comp	Nevertheless, snow sampling is proposed in the vicinity of the bulk sample pits, to detect any residual ammonia, as part of the monitoring program (ESD Section 8.6.4), (response to Hamilet of Pond Inlet PI-1, Table 1, pg 7)	(Knight Piésold Ref. No. NB102-00181/10-3, Rev. 1, dated March 31, 2008) (Baffinland, dated March 31,2010)	
Company	altitudes. This commitment will also be applied to the bulk sample program. (response to Hamilet of Pond Inlet Pt-2, Table 1, pg 7)	N/A	Incorporated into EPP
Company	observed response of wildlife to site activities. (response to Hamlet of Pond Inlet Pi-2, Table 1, pg 7)		Incorporated into EPP
Company   Comp	2. Table 1, pg 7) Independent of the bulk sample program, Baffinland is continuing with robust baseline studies designed to support a potential future full-scale mining application. Caribou is recognized as a species of critical importance to the community, and is a key focus in the	Summary Report on Baseline Activities	
March   Marc	Balfinland expects that community representatives will be involved in marine wildlife monitoring activities as with other baseline wildlife programs, and is prepared to arrange for community representatives to accompany one of the ships from Pond Inlet into Milnie Inlet		Community representatives from Pond Inlet and Igloolik participated
March   Marc	The bulk sampling program will have no ice breaking and no project activities in the vicinity of the floe edge. (response to Hamlet of Pond Inlet PF-3, Table 1, pg 8)		surveys and archaeological studies
Part	Peregrine falcon nests have been identified throughout the area, and these nests are subject to ongoing monitoring as part of baseline studies. Site activities, including rock quarrying, have been designed to avoid these nests (Figures 227 to 229), (response to		
Section of the control of the contro	require approval and/or advice from the Department of Fisheries and Oceans to address potential risks to fish and fish	(Knight Piésold Ref. No. NB102-00181/10-4, Rev. 0, dated August 30, 2007)	
March   Company   Compan	Efforts will be made to minimize disturbance to hunters and land users during the course of the program. Measures to minimize disturbance will be articulated in the Construction Environmental Monitoring Plan (CEMP), and will include community radio updates on project activities and a reporting checkpoint at Milne Niet for hunters to notify the project of their intended travel routes inland so these areas can be avoided to the extent possible. (response to Hamilet of Pond Intel PI-6, Table 1, pg 10)		
	Baffiniand will continue to meet with community hunters and proposes to document observed hunting activities in the area over the course of the bulk sampling program. Baffiniand will respond to any input provided by local hunters as it relates to site activities and its interaction with hunting activity, (response to Hamilet of Pond Intel PF-7, Table 1, pg 10)		·
An experiment of the content of th	Operational plans will be developed that further consider ways to minimize local disturbances (to Inuit harvesting activities) (response to Hamlet of Pond Inlet PI-7, Table 1, pg 10)	Environmental Protection Plan	
The content of the	bulk sample program will provide even more opportunities for local benefits. With an increased level of activity associated with the bulk sample program. Baffinland expects hiring to extend to other communities as well (response to Hamlet of Pond Inlet PI-9. Table 1.	N/A	Ongoing
The company of the co	9, Table 1, pg 11)		Some data included in the 2007 and 2008 Annual Report to the Nunavut Impact Review Board
The second of the Control of the Con	stakeholders regarding shipping activities and schedules so that any concerns can be proactively addressed (response to Hamlet of Pond Inlet PI-10, Table 1, pg 12)		of Pond Inlet
Common   C	Mitigating measures are integrated into the design of the bulk sample program and adaptive management will be practiced in response to field results. Activities and interaction with the environment will be carefully managed through the implementation of a		
Secretary of the Control of Contr	communication and seek input from the community on a regular basis throughout the course of the project (response to Hamlet of Pond Inlet PF11, Table 1, pg 12)  The ore will be coarsely crushed and then screened into two fractions; one-31.5+6.3mm in size and the second – 6.3mm or the size of small pebbles and through this process, very little fines are expected to be generated. As a result, dust is not articipated to be	Environmental Protection Plan	Regular community and hamlet meetings are ongoing.
Company   Comp	(response to QM-2, Table 2, pg 15) (response to GM-7, Table 3, pg 30) (response to EC-4, Table 4, pg 47)  The CEMP is an operational plan that will outline best management practices, environmental sensitivities, responsibilities, and action plans to address potential environmental effects. Baffirriand will share a draft of the CEMP with the QIA and submit the plan to the	(Knight Piésold Ref. No. NB102-00181/10-3, Rev. 1, dated March 31, 2008) (Baffinland, dated March 31, 2010)	Complete
The state of the s	The Qikirglaaluk Corporation, as a contractor on the project, will be one of the companies responsible for the implementation of the CEMP. (response to QIA-3, Table 2, pg 16)		Ongoing
The control of the co			
	the road. This plan will articulate the ways that Baffinland will meet DFO's policy for the protection of fish and fish habitat. (response to QIA-5, Table 2, pg 16)		Complete
Section of the process of the proces	peration. (response to QA-6, Table 2, pg 17)	2007 Annual Report to the Nunavut Impact Review Board (knight Resid Red. No. NIJCO-018111-11, Rev. O., dated January 25, 2008) (2008 Annual Report to the Nunavut Impact Review Board (sidminiand, 2009) (s	Complete
The control in the co	The CEMP is under development and will address the interaction of the project/humans with wildlife that may be in the area. All employees will be encouraged as part of the CEMP to report any observed response of wildlife to site activities and activities will be		
the material for any and it is briefly began and the part of the p	The removal of hazardous wastes to a licensed disposal facility will take place in 2008 as well as at final abandonment in 2009 (response to QIA-9, Table 2, pg 18)	Environmental Protection Plan	
The filter that the form model is common agreed of the concept companies and the following all the control is common agreed of the control in common agreed of	of the materials placed in the landfill, to ensure they are both non-combustible and nonhazardous, will be carried out according to an operational procedure to ensure that only inent wastes are placed in the landfill and that the waste is regularly covered to minimize the potential for debris to scatter (response to QIA-9, Table 2, pg 18)  Section 2.19 notes that incinerator ash will be placed into the landfill. This is bottom ash, which will be inert, and no fly ash will be generated given the technology to be used. (response to QIA-10, Table 2, pg 18)	Bulk Sampling Program - Landfill Design and Operations (Knight Piésold Ref. No. NB102-00181/10-6, Rev. 1, dated March 31, 2008)	Landfill design received approval in 2009; construction of landfill completed in July 2010.
In the Control of State 1, pictors are produced any greater and produced and posterior and an internal control and posterior and produced and	Inuit, as Inuit have been involved in various aspects of the baseline studies (response to QIA-10, Table 2, pg 18)  Baffinland activities in the Mary River area will include the Bulk Sample Program along with ongoing exploration drilling and baseline environmental and geotechnical programs for which required approvals are currently in place. (response to QIA-11, Table 2, pg 19)		EPP
Information and control of Milling and, inequation to the Properties of the Companies of the Properties of the Propertie	(response to GN-9, Table 3, 322)(response to NAC-5, Table 7, pg 57) In 2007, environmental and geotechnical programs will be carried out at potential port sites at Mine and Steenaby inlets as well as potential transportation corridors between these locations and the main one deposit. (response to GN-11, Table 2, pg 19) (response to GN-9, Table 3, 522)(response to NAC-5, Table 7, pg 57)		
The ARE Plan mentals a conception of the second of the purpose of the seco	and hence no use of drilling salt. (response to QIA-11, Table 2, pg 19)		
The ARP Plan will be revised to reflect post-closure monitoring for a period of 5-years, with the option to cease monitoring sealer if conditions warrant (response to QA-13, Table 2, pg 20)  Assendancement an Reclamation Plan ((right Peacl Ret. Ns. 1810: 811915-181915-1, Rev. Q. dated March 38, 2009) 2017 Alamadomental Reclamation Plan ((Right Peacl Ret. Ns. 1810: 811915-181915-1, Rev. Q. dated March 38, 2009) 2018 Assendancement and Reclamation Plan ((Right Peacl Ret. Ns. 1810: 811915-181915-1, Rev. Q. dated March 38, 2009) 2019 Assendancement and Reclamation Plan ((Right Peacl Ret. Ns. 1810: 811915-181915-1, Rev. Q. dated March 38, 2009) 2019 Assendancement and Reclamation Plan ((Right Peacl Ret. Ns. 1810: 811915-181915-1, Rev. Q. dated March 31, 2009) 2019 Assendancement and Reclamation Plan ((right Peacl Ret. Ns. 1810: 811915-1819-1819) 2019 Assendancement and Reclamation Plan ((right Peacl Ret. Ns. 1810: 811915-1819-1819-1819) 2019 Assendancement and Reclamation Plan ((right Peacl Ret. Ns. 1810: 811915-1819-1819-1819-1819-1819-1819-181	The Mine hiel tote road will be abandoned in a condition that will be stable in the long-term. Sea container crossings will be removed as they are not designed for long-term use, and any culverts which are deemed not stable in the long term will also be removed (response to QIA-13, Table 2. pg 19)	Abandonment and Reclamation Plan (Knight Piésoid Ref. No. N8102-001818-7, Rev. 2, dated March 31, 2008) 2009 Abandonment & Reclamation Plan (Knight Piesoid Ref. No. 18102-1811-8, 1-8, etc. of dated March 26, 2009) 2010 Abandonment & Reclamation Plan (Selfiniand, 2010) 2011 Abandonment & Reclamation Plan	
Abandonmental fine Relamation Plan (Knjigh Plackoff Ref. No. N. 1002_01816_FC. avg. dated March 31, 2008) 2009 Abandonmental Reclamation Plan (Knjigh Plackoff Ref. No. N. 1002_01816_FC. avg. dated March 31, 2008) 2019 Abandonmental Reclamation Plan (Knjigh Plackoff Ref. No. N. 1002_018175_F1. Rev. ), dated March 26, 2009) 2019 Abandonmental Reclamation Plan (Redistants Corporation has been contracted as part of the bulk sample program and will provide manpower from the region as well as construction services, (response to QIA-14, Table 2, pg 22)  NA  As one element of study, Baffiniand has committed to provide both financial and in-kind support to the CN in the implementation of a carbou collaring program in the North Baffin Regional A draft Memorandum of Understanding has been developed and is currently  inclined to provide to the Committed to provide both financial and in-kind support to the CN in the implementation of a carbou collaring program in the North Baffin Regional Land Use Plan (Section 6.2.2.2.2) (response to GN-1, Table 3, pg 24)  On-site widtlife biologists as well as pilots will be monitoring carbour movements during the sensitive period set out in the Carbour Protection Measures as required for conformance with the North Baffin Regional Land Use Plan (Section 6.2.2.2.2) (response to GN-1, Table 3, pg 24)  NA  Ongoing  On-site widtlife biologists as well as pilots will be monitoring carbour movements during the sensitive period set out in the Carbour Protection Measures of May 15 to July 15, and biologists will be responsible for assessing situations in which carbou are observed near to GN-1, Table 3, pg 24)  Additional indigation (such as minimum flight allitudes), funding restrictions and a traffic management plan is outlined in Section 6.2.2.2 and will also be outlined in a Wildlife Monitoring and Mitigation Plan  Incorporated into EPP  Responding to recommendations from the GN in the recent screening of the drilling program, selfinal or committed to a new minimum flight allitude of 610 m, ra	Contingency costs will be included in an updated A&R Plan (response to QIA-13, Table 2, pg 20)  The A&R Plan will be revised to reflect post-closure monitoring for a period of 5-years, with the option to cesse monitoring earlier if conditions warrant (response to QIA-13, Table 2, pg 20)	(Knight Plesoid Ref. No. NB102-0015/In-7. Rev. 2. dated March 31, 2008) 2009 Abandonment & Reclamation Plan (Knight Plesoid Ref. No. NB102-1811/5-1. Rev. 0. dated March 28, 2009) 2010 Abandonment & Reclamation Plan (Saffinland, 2010) 2011 Abandonment & Reclamation Plan	Complete; costs were further revised using the RECLAIM model, as requested by INAC.
NA  As one element of study, Balfinland has committed to provide both financial and in-kind support to the GN in the implementation of a caribou collaring program in the North Baffin Region. A draft Memorandum of Understanding has been developed and is currently being finalized. (response to GN-1, Table 3, pg 24)  As one element of study, Balfinland has committed to provide both financial and in-kind support to the GN in the implementation of a caribou collaring program in the North Baffin Region. A draft Memorandum of Understanding has been developed and is currently being finalized. (response to GN-1, Table 3, pg 24)  NA  Ongoing  On-site willfill biologists as well as plicts will be monitoring caribou movements during the sensitive period set out in the Caribou Protection Measures or May 15 to July 15, and biologists will be responsible for assessing situations in which caribou are observed near to GN-1, Table 3, pg 24)  Additional mitigation (such as minimum flight altitudes, hunting restrictions and a traffic management plan) is outlined in Section 6.2.2.2 and will also be cullined in a Wildlife Monitoring and Mitigation Plan to GN-1, Table 3, pg 24)  Responding to recommendations from the GN in the recent screening of the drilling program. Baffinland committed to a new minimum flight altitude of 610 m, rather than the previous 300 m specified in lad use permitticenses. (response to GN-1, Table 3, pg 24)  Responding to recommendations from the GN in the recent screening of the drilling program. Baffinland committed to a new minimum flight altitude of 610 m, rather than the previous 300 m specified in lad use permitticenses. (response to GN-1, Table 3, pg 24)  Responding to recommendations from the GN in the recent screening of the drilling program. Baffinland committed to a new minimum flight altitude of 610 m, rather than the previous 300 m specified in lad use permitticenses. (response to GN-1, Table 3, pg 24)  Environmental Protection Plan  Incorporated into EPP		(Knight Piesold Ref. No. NB102-00181/6-7, Rev. 2, dated March 31, 2008) 2009 Shandonment & Reclamation Plan (Knight Piesold Ref. No. NB102-181/15-1, Rev. 0, dated March 26, 2009) 2010 Shandonment & Reclamation Plan	Complete
As one element of study, Balfinland has committed to provide both financial and in-kind support to the GN in the implementation of a caribou collaring program in the North Baffin Region. A draft Memorandum of Understanding has been developed and is currently being finalteed. (response to GN+1, Table 3, pg 24)  Baffinland has committed to adherence to the Caribou Protection Measures as required for conformance with the North Baffin Regional Land Use Plan (Section 6.2.2.2). (response to GN+1, Table 3, pg 24)  N/A  Ongoing  Ongoing  Addisonal mitigation (such as minimum flight attitudes, hunting restrictions and a traffic management plan) is outlined in Section 6.2.2.2 and will also be outlined in a Wildlife Monitoring and Mitigation Plan that will be used as an operational plan for the site. (response to GN+1, Table 3, pg 24)  Responding to recommendations from the GN in the recent screening of the drilling program. Baffinland committed to a new minimum flight attitude of 610 m., rather than the previous 300 m specified in lad use permitticeness. (response to GN-1, Table 3, pg 24)  Responding to recommendations from the GN in the recent screening of the drilling program. Baffinland committed to a new minimum flight attitude of 610 m., rather than the previous 300 m specified in lad use permitticeness. (response to GN-1, Table 3, pg 24)  Responding to recommendations from the GN in the recent screening of the drilling program. Baffinland committed to a new minimum flight attitude of 610 m., rather than the previous 300 m specified in lad use permitticeness. (response to GN-1, Table 3, pg 24)  Responding to recommendations from the GN in the recent screening of the drilling program. Baffinland committed to a new minimum flight attitude of 610 m., rather than the previous 300 m specified in lad use permitticeness. (response to GN-1, Table 3, pg 24)  Environmental Protection Plan  Incorporated into EPP  Incorporated into EPP			
Baffiniand has committed to adherence to the Caribou Protection Measures as required for conformance with the North Baffin Regional Land Use Plan (Section 6.2.2.2). (response to GN-1, Table 3, pg 24)  On-site wildlife biologists as well as pilots will be monitoring caribou movements during the sensitive period set out in the Caribou protection Measures of May 15 to July 15, and biologists will be responsible for assessing situations in which caribou are observed near by project activities. (response to GN-1, Table 3, pg 24)  Additional imbigation (such as minimum flight attitudes, hunting restrictions and a traffic management plan) is outlined in Section 6.2.2.2 and will also be outlined in a Wildlife Monitoring and Mitigation Plan (Knight Plesold Ref. No. NB102-001817-4, Rev. O, dated Aug 15, 2008)  Responding to recommendations from the GN in the recent screening of the drilling program, Baffinland committed to a new minimum flight attitude of 610 m, rather than the previous 300 m specified in Section 6.3.4.2. Baffinland is working with the shipping companies and regulations in the planning of a mock arctific feel soil response training exercise in conjunction with the bulk sample program, which will provide added environmental protection in	As one element of study, Baffinland has committed to provide both financial and in-kind support to the GN in the implementation of a caribou collaring program in the North Baffin Region. A draft Memorandum of Understanding has been developed and is currently	Memorandum of Understanding	
to project activities (response to GN-1, Table 3, pg 24)  Additional mitigation (such as minimum flight altitudes, hunting restrictions and a traffic management plan) is outlined in Section 6.2.2.2 and will also be cullined in a Wildlife Monitoring and Mitigation Plan that will be used as an operational plan for the site. (response to GN-1, Table 3, pg 24)  Wildlife Monitoring and Mitigation Plan (Knight Plesol filer, No. NB101/20 and Mitigation Plan (Knight Plan (Knight Plesol filer, No. NB101/20 and Mitigation Plan (Knight Plan (Knig	On-site wildlife biologists as well as pilots will be monitoring caribou movements during the sensitive period set out in the Caribou Protection Measures of May 15 to July 15, and biologists will be responsible for assessing situations in which caribou are observed near		
Responding to recommendations from the GN in the recent screening of the drilling program, Baffinland committed to a new minimum flight altitude of 610 m, rather than the previous 300 m specified in land use permittilicenses. (response to GN-1, Table 3, pg 24)  As mentioned in Section 6.3.4.2, Baffinland is working with the shipping companies and regulators in the planning of a mock arctic fuel spill response training exercise in conjunction with the bulk sample program, which will provide added environmental protection in	to project activities (response to GN-1, Table 3, pg 24)  Additional mitigation (such as minimum flight altitudes, hunting restrictions and a traffic management plan) is outlined in Section 6.2.2.2 and will also be outlined in a Wildlife Monitoring and Mitigation Plan that will be used as an operational plan for the site. (response	Environmental Protection Plan  Wildlife Monitoring and Mitigation Plan	
As mentioned in Section 6.3.4.2, Baffinland is working with the shipping companies and regulators in the planning of a mock arctic fuel spill response training exercise in conjunction with the bulk sample program, which will provide added environmental protection in		Environmental Protection Plan	
	As mentioned in Section 6.3.4.2, Baffinland is working with the shipping companies and regulators in the planning of a mock arctic fuel spill response training exercise in conjunction with the bulk sample program, which will provide added environmental protection in the unified yieldance of a fuel release. (response to GN-2, Table 3, pg 26)	N/A	Training exercise completed



#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

#### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN

#### STATUS OF COMPLIANCE WITH CONDITIONS, APPROVALS AND COMMITMENTS

STATUS OF COMPLIANCE WITH CONDITIONS, APPROVALS AND COMMITMENTS		
TEM The 8 million litres (ML) of fuel to be shipped during the bulk sampling program will occur against the backdrop of annual fuel deliveries to 13 Baffin region communities in the order of 110 ML per year (AMEC, 2004). As outlined in Section 2.13, fuel delivery will be understaken using an experienced arctic shipping company using conventional fuel transfer methods, in compliance with the Canada Shipping Act, and Arctic Waters Pollution Prevention Act, and associated regulations and guidelines identified in Section 6.3.4.2. These regulations and guidelines require ships to have an Canadian Coast Guard approved Emergency Response Plan and must maintain an arrangement with a certified response organization such as the Eastern Canada Response Corporation. (response to ON-2, Table 3, pg 25)	DELIVERABLE NA	STATUS N/A
The Mine Iniet camp will have a capacity of 30 persons, and the package sewage treatment plant will treat to secondary treatment levels (800=40 mg/L and TSS=60 mg/L). The NWT Water Board guidelines (1992) for sewage discharge to the marine environment in a bay or fixed is 800=120 mg/L and TSS=180 mg/L. NWT Guidelines have been used in guiding the design basis for the treatment system in the absence of similar guidelines for Nunavut. (response to GN-4, Table 3, pg 28)(response to NAC-1, Table 7, pg 54)	Waste Water Management Plan for Mary River and Miline Inlet Camp Sites (BH Martin Consultants Inc. Report Reference No. 06-90), dated September 15, 2007) Wastewater Management Plan (Baffinland, dated March 31, 2009) (Baffinland, dated March 31, 2009)	Complete
Baffinland accepts this recommendation (that an appropriate methodology for detecting exceedances of the approved water qualify guideline be developed and submitted to NIRB during the environmental screening process). Future metals analyses will be forwarded to ALS Laboratories in Vancouver, as this laboratory can achieve the necessary detection limit. (response to GN-5, Table 3, pg 29)	NA NA	Water quality samples for metals analysis are forwarded to Exova-Accutest Laboratories, who have appropriate lab methods with suitably low detection limit for cadmium
The risks associated with nurdiffrom roads, borrow areas and airstips relate to the potential for sediment to enter nearby fish-bearing watercourses, with the potential to harm aquatic organisms and reduce biological productivity. This is a minor and manageable risk when addressed using standard sediment control measures and construction mitigation methods (Section 6.1.5.2). The details will be articulated in the Construction Environmental Monitoring Plan (CEMP) and will be required to support applications for fisheries authorizations. (response to GN-6, Table 3, pg 29)  Baffinland will be using modern equipment designed to minimize emissions from combustion. (response to GN-7, Table 3, pg 30)	Environmental Protection Plan	Incorporated into EPP  N/A
Air and noise emissions will be localized and addressed through operational practices, in compliance with Northwest Territories and Nanavut Mine Health and Safety Act and Regulations which govern worker exposure to noise, dust and all other matters related to health and safety. Appropriate personal protective equipment (PPE) will also be provided for all workers. This legislation is enforced through the Workers' Compensation Board (WCB), and Mine Inspectors approve Baffinland's health and safety plans and engineering plans prior to the start of work programs. (response to GN-7, Table 3, pg 30) (response to GN-8, Table 3, pg 31) (response to HC-1, Table 6, pg 51)	NA	Ongoing
The incinerator will be of dual-chambered design intended to meet the Canada-wide Standards for Doxins and Furans. The efficacy of this equipment will also limit the potential for the release of particulate matter. Confirmatory stack testing will be completed during the bulk sampling program. Air quality from crushing and mining activities is addressed in Section 6.1.1.1 (response to GN-7, Table 3, pg 30) (response to EC-4, Table 4, pg 47)	2007 Annual Report to the Nunavut Impact Review Board (Knight Présold Ref. No. N8102-20181/11-1, Rev. 0, dieted January 25, 2008) 2008 Annual Report to the Nunavut Impact Review Board (Baffiniand, 2009) 2009 Annual Report to the Wunavut Impact Review Board (Baffiniand, 2010) 2019 Annual Report to the Wunavut Report Solvens (Baffiniand, 2010) 2019 Annual Report to the Wunavut Review Board (Baffiniand, 2011)	Testing of emissions from incinerators (stack testing) was conducted in 2007, 2008, and 2009. The results from this test work conducted in 2007, 2008, and 2009. The results from this test work commission described in the state of the state
With respect to proposed upgrades beginning in March, this would have involved the positioning of culverts and equipment at key locations prior to spring break-up, operating within the existing footprint of the road and airstrips. This schedule has now changed since the writing of the ESD, and the current schedule (subject to receiving a NIRB notice of decision and subsequent approvals) will involve positioning of culverts as early as May (operating within the existing road footprint) and beginning to develop borrow sources in early June, once clearance has been provided by the archeeologist (response to GN-11, Table 3, pg 35)	NA NA	NA
Balfinland management is continuing to work with government and stakeholders on the development of its human resources, training and employment programs in support of current and future plans. Our management team has seen the addition of a Director of Human Resources and a Business Development Manager located in fault. Community Lisson Officers are planned for other Balfin communities. Presentations will be delinered very shortly at the community level to discuss the addition of a Director of Human Resources and a Business Development Manager located in fault in fault in the second and the second and the pot training programs are being developed and will include such areas as workplace safely, orientation, heavy equipment operation, and cultural diversity, (response to GN-12, Table 3, pg 35).	2007 Annual Report to the Nunavut Impact Review Board (Knight Préscid Ref. No. NSI 02-2018 111-11, Rev. 0, dieted January 25, 2008) 2008 Annual Report to the Nunavut Impact Review Board (Isaffiniant, 2009) 2009 Annual Report (Isaffiniant, 2010) 2010 Annual Report (Isaffiniant, 2010) 2010 (Isaffiniant, 2010) 2010 Annual Report too the Nunavut Impact Review Board (Isaffiniand, 2011)	NA
With respect to the number of additional employees required for the bulk sampling program who will be hired locally, Baffinland will be using the Qikiqtaaluk Corporation (QC) to provide manpower to the project and is encouraging other contractors to work with the QC to maximize cola benefits, respects to 6N+12. Table 3, pp 89)  Efforts will be made to minimize disturbance to hunters and land users during the course of the project in at reporting checkgoint at	N/A	N/A
Milne hielt for hunters to notify the project of their intended travel routes inland so these areas can be avoided to the extent possible. Balfinland is committed to discussing the details of how this will be done with various stakeholders. (response to GN-13, Table 3, pg 37)  The road will therefore be upgraded at a time when the Mary River is of heightened importance to the community due to availability of caribou. (response to GN-13, Table 3, pg 37)	Environmental Protection Plan N/A	Incorporated into EPP N/A
Baffinland will construct fuel storage facilities to meet the appropriate codes. Baffinland will consider the many useful comments provided in an updated Emergency and Spill Response Plan. Recommendations for adequate storage for contaminated snow will be taken into consideration and reflected in the updated spill plan (response to GN-14, Table 3, pg 39)	Spill Contingency Plan (Okiqtaluk Environmental, March 2008) Spill Contingency Plan (Baffinland, dated March 2009) (Baffinland, dated March 2009)	Complete
While the drilling program was noted in the ESD, separate permits have been issued for the drilling program and Baffinland will adhere to the terms and conditions of the permits and commitments made during the screening of the drilling program. Geolechnical and exploratory drilling requiring the use of water is not an element of the bulk sample program. (response to GN-15, Table 3, pg 39)	(Baffinland, dated March 31, 2010) (Baffinland, dated March 1, 2011) NIA	N/A
Baffinland will seek approval from the department (GN_DOE) for the use of EX35. (response to GN-16, Table 3, pg 40)  The incinerator to be used at the Mary River camp is dual chamber with controlled air flow. Baffinland proposes to conduct a stack test to verify compliance with the Canada-Wide Standards during a visit by its air and noise quality consultant for baseline monitoring work. The incinerator to be used at Milne Inlet is also dual chamber but with forced air flow. (response to GN-17, Table 3, pg 40)	N/A	EK35 was not used and removed from site in 2008.
	2007 Annual Report to the Nunavut Impact Review Board (Knight Piesoid Ref. No. NSI 02-2018 111-11, Rev. 0, dated January 25, 2008) 2008 Annual Report to the Nunavut Impact Review Board (Baffiniand, 2009) 2009 Annual Report to the Nunavut Impact Review Board (Baffiniand, 2010) 2010 Annual Report to the Nunavut Impact Review Board (Baffiniand, 2010) 2010 Annual Report to the Nunavut Impact Review Board (Baffiniand, 2011)	Testing of emissions from incinerators (stack testing) was conducted in 2007, 2008, and 2009. The results from this test work have indicated that diston and furn lenels have exceeded applicable guidelines adopted by the Government of Nurawat. During 2010, a study was commissioned to look at historical test results for discoin and furna at Many River and in the Canadian North generally. The study also crewedest steps undertaken by Bafffraind to immirize emissions, and was to provide recommendations and best practices to assist Baffraind in reducing these emissions in the future. The recommendations are to be considered during camp operations in 2011.
Baffinland will make efforts to reduce greenhouse gas emissions in the context of the short-term nature of the bulk sampling program through the efficient use of energy. As part of ongoing work related to the potential for a full-scale mining operation, Baffinland is collecting the information necessary to evaluate the viability of renewable energy options including wind and hydro. (response to CN-18, Table 3, pg 40)	N/A	N/A
Balfinland will have full-time medical care at site in accordance with the Northwest Territories and Nurawst Mine Health and Safety Act and Regulations. The applicable regulations referenced by Health and Social Services regarding camp sanitation and water supply will be adhered to.  The comment regarding separation of sleeping quarters and the kitchen has been taken under advisement, (response to GN-20, Table 3, pg 42).	N/A	Compliant
The continent requesting systematic of several guide less and the skilled trade of the size of the siz	NIA  2007 Annual Report to the Nunavut Impact Review Board (Knight Piésold Ref. No. NB102-00181/11-1., Rev. 0, dated January 25, 2008) 2008 Annual Report to ell futur and the Verlew Board (Balfinand, 2009) 2009 Annual Report to the Nunavut Impact Review Board (Balfinand, 2010) 2010 Annual Report to the Nunavut Impact Review Board (Balfinand, 2010) (Balfinand, 2010)	N/A  Residual ore stockpiles are present at Mary River and Milne Inlet.
Drilling activities, while considered as a concurrent activity in the bulk sample proposal, has been evaluated in a separate screening and drilling operations will be subject to the terms and conditions of the permits issued for that activity. Diamond drilling is not an activity proposed as part of the bulk sample program, (response to EC-2, Table 4, pg 47)  Baffinland proposes to utilize an experienced arctic shipper of fuel, and to utilize common fuel unloading methods used by nearly every community in Nunavut. (response to EC-3, Table 4, pg 47)	N/A	N/A
The CC is already working with Baffinland to advance the Spill Management Plan presented with the ESD and order the required spill response materials for the bulk sample program (response to EC-3, Table 4, pg 47)	NA  Spill Contingency Plan (Okiquasuk Environmentel, March 2008) Spill Contingency Plan (Baffinland, dated March 2009) (Baffinland, dated March 2010)	N/A Complete
Drilling and blasting is an activity required as part of any open pit operation. Pit design and development will foliow industry accepted practice to manage potential environmental, health and safety risks. (response to EC-5, Table 4, pg 48)  Drilling and blasting activities for the bulk sample will take place in the winter over a 2-3 month period further reducing potential risks to the environment (response to EC-5, Table 4, pg 48)  The bulk sampling program has been designed to maximize use of the existing disturbed footprint, such that very little new habitat loss will occur. The program is 15-months in duration and all materials will be removed from site in accordance with an approved ASR Plan. (response to EC-6, Table 4, pg	(Baffinland, dated Marcy 2011)  N/A  N/A  N/A	N/A N/A
The Construction Environmental Monitoring Plan and related Monitoring and Mitigation plans will be the tools Baffinland will use to ensure effective implementation, and the terms and conditions of environmental permits will ensure Baffinland complies with these commitments and conditions. The program is 15- months in duration and all materials will be removed from site in accordance with an approved A&R Plan. (response to EC-8, Table 4, pg 49)	N/A	N/A
We acknowledge that fisheries authorizations may be required for the above listed activities, and look forward to discussing the details with DFO as part of the licensing phase of the application process. (response to DFO-1, Table 5, pg 50)  Belfinand is working on a comprehensive worker orientation and training program required for all contractors and employees that addresses personal protective equipment and all other requirements of the legislation that pertain personally to the worker. (response to HCC-2 Table 6, pg 51)  Visitors to the Many River or Milne Infet sites will be required to sign in and acknowledge the health and safety risks of being within an operational site. Balfirrland will comply with all requirements for water use and waste disposal as outlined in its approvals/licenses. (response to HCC-3 Table 6, pg 52)	NIA Comprehensive Worker Orientation and Training Program NIA	N/A Complete; implementation ongoing Ongoing
Treated sewage effluent will be discharged into Milne Inlet, near to the camp but removed from Phillip's Creek (response to HC-3. Table 6, pg 52)	Mary River Project - Rotating Biological Contactor (RBC System) Sewage Treatment and Discharge - Milne Inlet As-Constructed Report (BH Martin Consultants Inc., Report Reference No. 08-090, dated January 21, 2008)	N/A
Drinking water for the camp (and possibly for community uses) will be obtained from Philip's Creek, upstream of the effluent discharge point, (response to HC-3. Table 6, pg 53)  Specific activities, such as ore crushing, stockpiling or ship loading, will each occur over the span of several months. With the exception of the weathered one stockpile (which will be stockpiled on existing weathered one on the deposit), all materials will be removed from site at the conclusion of the bulk sampling program. (response to HC-4. Table 6, pg 53)	N/A N/A	N/A N/A
Monitoring of fall-out from air emissions is proposed at the crushing, roadside and Milne hield or estockpling and loading operations, and site runoff will be monitored in the vicinity of the same areas, to monitor any deposition that occurs over the short time frame of the project, the project, the project have prevented in the vicinity of the same areas, to monitor any deposition that occurs over the short time frame of the project	Comprehensive Environmental Monitoring Plan (Knight Plésold Ref. No. NB102-0015110-3, Rev. 1, dased March 31, 2008) (Baffinland, dated March 31, 2011) (Baffinland, dated March 1, 2011)	Complete
Run-off water quality from the proposed will be monitored as a part of the bulk sample program. (esponse to NAC-4, Table 7, pg 57)  no fishing will be permitted by workers on the project. (response to NAC-5 Table 7, pg 58)  Baffiniand will seek the requisite permit (explosives magazine license under the Explosives Use Act from the territorial government) as part of the licensing phase of this application. (response to NAC-9-2, Table 8, pg 59)  Notification will be made to local stackholders regarding the ship schedule for the bulk sampling program (Section 6.4.2.2), (response to PC-2, Table 9, pg 60)	N/A N/A Stakeholder mölifordion	Ongoing Complete
The shipping traffic associated with Baffinland's bulk sampling program includes 2 ships in August 2007, and five ships spanning August-September 2008. (response to PC-3, Table 9, pg 60)  Baffinland will comply with appropriate legislation (Aeronautics Act, The Canadian	Stakeholder notification  N/A  N/A	Complete N/A N/A
Aviation Regulations, CARS 301 and TC-3121 (response to TC-2, Table 10, pp. 61)  D. Memorandum dated April 20, 2017 entitled Establishing Significance of Revisibul Impacts of the Bulk Sampling Program  E. Memorandum dated April 17, 2007 entitled Calculation of Estimated Ammonia Rurnoll from Bulk Sample Plat  C. Correspondence dated March 16, 2007 from Kinglit Periodic On Rod Cooper regarding Preliminary Results of Phase 1 Geochemical Characterization Program  G. Correspondence dated March 16, 2007 from Kinglit Periodic On Rod Cooper (regarding Preliminary Results of Phase 1 Geochemical Characterization Program  G. Correspondence dated March 16, 2007 from Kinglit Periodic On Rod Cooper (regarding Preliminary Results of Phase 1 Geochemical Characterization Program  G. Correspondence dated March 16, 2007 from Kinglit Periodic On Rod Cooper (regarding Periodic Periodi	N/A N/A N/A	Ongoing Ongoing N/A
e. Correspondence dated January 8, 2007 from Rod Cooper to Carolanne Inglis-McQuay  f. Indian and Northern Affairs Application for Land Use Permit g. Indian and Northern Affairs Application for Courring Permit g. Indian and Northern Affairs Application for Courring Permit	N/A N/A N/A	N/A N/A N/A
h. Oblidate Inut Association Application for Access to Inuti Owned Land  1. Bellificant on Unines Companies May River Project. Bulk Sampling Program - Environmental Screening Document Volume II Appendices (Kriight Plesold Report NB102-001816-1, Rev. 0, dated November 20, 2007  2. The proposent shall instation a copy of the Screening Decision at the site of operation at all times.  3. The proposent shall instation as only of the Screening Decision at the site of operation at all times.  3. The proposent shall instation as to NIRB of all authorizations obtained and required for this operation.	N/A N/A N/A N/A	N/A N/A N/A Copies are on site Complete
The proposent shall greate the project in accordance with all applicable Federal and Territorial Acts, Regulations and Guidelines.     The proposent shall greate the project in accordance with all applicable Federal and Territorial Acts, Regulations and Guidelines.     The proposent shall submit and annual report with copies provided to the NIRB, NAC, the QIA, Environment Canada and Government of Nunawut by January 31 each year that the project is in operation commending January 31, 2008. The report must contain, but not be limited to, the following information:     a. A summary of activities undertaken for the year, including any progressive reclamation work undertaken, and a work plan for the following year - site photos should be provided where relevant;	N/A N/A	Ongoing Ongoing
D. A summary of how the Proponent has compiled with NRB conditions contained within this Screening Decision.  C. A summary of the results from the Monitoring Program and the Construction Environmental Management Plass, including:  1. An analysis of the impact of the project open the Uniformity program and the Construction Environmental Management Plass, including:  1. An analysis of the effectiveness of militigation measures:  18. The identification of any unarticipated environmental impacts (if any) and any follow-up required (if relevant);  19. Congran Canada and applicable regulations and all authorizations associated with the project activities, including any exceedances of CCME-FWAL criteria (as reported to Environment Canada, the Nurrawut Water Board, and the Department of Fisheries and Oceans Canada)  29. Any necessary adaptive mitigation strategies employed  30. Any modifications made to the Monitoring Program, and  30. Mr. Decorption or the progress made on the declinear of component specific thresholds used to determine the necessity for adaptive mitigation and management strategies.	2007 Annual Report to the Nunavut Impact Review Board (Knight Plescoff Bet No. 185102-00181/11-1, Rev O. dated January 25, 2008) 2008 Annual Report to the Nunavut Impact Review Board (Balfinand, 2009) 2009 Annual Report to the Nunavut Impact Review Board (Balfinand, 2010) 2010 Annual Report to the Nunavut Impact Review Board (Balfinand, 2010) 2010 Annual Report to the Nunavut Impact Review Board (Balfinand, 2011)	Complete
d. A summary of community consultations undertaken and the results; and e. A summary of site visits by inspectors with results and follow-up actions.  8. Monitoring Program a. Prior to commencement of the Bulk Sample project proposal activities, the Proponent shall develop a comprehensive monitoring program for the project. The monitoring program must be developed for all stages of the project activities, including construction, operation, closure, and post-closure. The monitoring program should be developed in accordance with the objectives outlined in Section 8 of the Proponent's Environmental Screening Document, namely.  1. Detection of unanticipated environmental impacts (if any)  8. Assessment of the effectiveness of proposed mitigation and the need to modify the measures or implement contingency plans  8. Compliance with applicable regulations and requirements of environmental permits  1. Disagrance collection of beastless environmental designments of environmental permits  8. Compliance with applicable regulations and requirements of environmental permits  8. Compliance with applicable regulations and requirements of environmental permits  8. Compliance with applicable regulations and requirements of environmental permits  8. Compliance with applicable regulation and the need to modify the measures or implement contingency plans  8. Compliance with applicable regulation and the need to modify the measures or implement contingency plans  8. Compliance with applicable regulations and requirements of environmental foreignment permits  8. Compliance with applicable regulation and the need to mental permits  8. Compliance with applicable regulation and the need as a fifter an experiment permits  8. Compliance with applicable regulation and the need as a fifter an experiment permits  8. Compliance with applicable regulation and the needs as a fifter an experiment permits and the needs are a second permits a	Comprehensive Environmental Monitoring Plan (Knight Plésold Ref. No. NB102-00181/10-3, Rev. 1, dated March 31, 2008) (Balfinland, dated March 31, 2010)	Complete
The monitoring program must monitor the components outlined in Section 8 of the Environmental Screening Document, but also must be updated to include monitoring for those components included in the significance assessment provided by the Proponent (on April 20, 2007), namely.      I. Air quality     II. Noise     II. Noise     III. Noise     III. Noise     III. Or Caribout     III. Air quality     II	2007 Annual Report to the Nunavut Impact Review Board (Knight Plescol Reft No. 183102-00181/11-1, Rev. 0. dated January 25, 2008) 2008 Annual Report to the Nunavut Impact Review Board (Balfinand, 2009) 2009 Annual Report to the Nunavut Impact Review Board (Balfinand, 2010) 2010 Annual Report to the Nunavut Impact Review Board (Balfinand, 2010)	Complete



#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

# COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN STATUS OF COMPLIANCE WITH CONDITIONS, APPROVALS AND COMMITMENTS

ITEM	DELIVERABLE	STATUS
g. The marine wildlife monitoring component of the monitoring program should be developed in conjunction with Department of Fisheries and Oceans and must consider the use of local community members as marine wildlife monitors.  In The monitoring program must identify component-specific thresholds that will be used to determine the necessity for adaptive mitigation and management strategies.		
7. The Proponent must ensure that shipping contractors do not incinerate any wastes or deposit any sewage or bilge water in Milne Inlet.	N/A	Shipping contractors operated in compliance with applicable legislation
8. The Proponent must ensure that shipping contractors travel at a speed less than 25 km/hr, or otherwise directed by the Department of Fisheries and Oceans and/or Transport Canada.  9. The Proponent shall submit an updated Emergency and Spill Response Plan immediately to NIRB and the Nunavut Water Board. Furthermore, the Proponent must ensure that there is sufficient spill response equipment at Milne hiet to adequately respond to a fuel	N/A	Shipping contractors operated in compliance with applicable legislation
s. The reported state south at updated chargestry and spin response that nimetalely to wind and the voluntum water board. Furthermore, the response that there is suitcent spin response equipment at white their is determined as spill of, at a minimum, 9,520L.	Spill Contingency Plan (Qikiqtaaluk Environmental, March 2008) Spill Contingency Plan	
	(Baffinland, dated March, 2009) (Bafflinland, dated March 31, 2010)	Complete
10. The Proponent shall ensure that all hazardous material is managed, removed from site and disposed in accordance with the Environmental Protection Act (EPA), the Nunavut Territorial Regulations and Guidelines, and the Nunavut Hazardous Waste Disposal Manual.	(Baffinland, dated March 1, 2011) N/A	Incorporated into EPP
11. If a formal Approval is required under the Navigable Waters Protection Act (NWPA) regarding works along the Milne Inlet Tote Road potentially interfering with navigation, the Proponent shall make all reasonable efforts to community of both liet.	N/A	NWPA approval involved public notification process
12. The Proponent must provide the community of Pond Inlet, Parks Canada and Nunavut Tourism with advance notice regarding the timing of the project shipping activities for 2007 and 2008.	N/A	Notification of shipping provided to Nunavut Tourism and the Hamlet of Pond Inlet
13. In accordance with GN procedures where stated and sections 5.6.52 and 5.6.55 of the Nunavut Land Claims Agreement, the Proponent shall contact the nearest Government of Nunavut Wildlife Office in the event of a defence kill of a Polar Bear.  14. Aircraft take-offs and landings are prohibited if caribou monitoring indicates presence within of caribou within 1km of the airstrips and/or helipads.	N/A N/A	Incorporated into EPP Incorporated into EPP
19. Publish unservine all or distinguish are private in the distinguish and the private in the distinguish are private in the distinguish and the private in the distinguish and the private in the distinguish are private in the distinguish and the private in	N/A	Incorporated into EPP
to. In ovaluate a large part of the Comment of Name and the Government of N	N/A	Incorporated into EPP
17. If snow sampling activities indicate adverse environmental impacts resulting from dust deposition from project activities, the Proponent must employ dust suppression methods approved by the Government of Nunavut - Department of Environment.		
	2007 Annual Report to the Nunavut Impact Review Board	
	(Knight Piésold Ref. No. NB102-00181/11-1, Rev. 0, dated January 25, 2008) 2008 Annual Report to the Nunavut Impact Review Board (Baffinland, 2009)	Complete
	2009 Annual Report to the Nunavut Ipact Review Board (Baffinland, 2010) 2010 Annual Report to the Nunavut Ipact Review Board	Complete
	(Baffinland, 2011)	
Appendix A - Terms and Conditions	N/A	
The permittee shall not operate any wehicle over a known or suspected archaeological or palaeontological site.     The permittee shall not remove, disturb, or displace any archaeological artifact or site, or any tosal or palaeontolotical site.     The permittee shall immediately contact the Department of Culture, Language, Elders and Youth (867) 934-2046 or (867) 975-5500 or 1 (866) 934-2035 should an archaeological site or specimen, or a palaeontological site or fossil be encountered or disturbed by	N/A N/A N/A	Incorporated into EPP Incorporated into EPP Incorporated into EPP
any land use activity.  4. The permittee shall immediately cease any activity that disturbs an archaeological or palaeontological site during the course of a land use operation, until permitted to proceed with the authorization of the Department of Culture, Language, Elders and Youth, Government of Nunavat.	N/A	Incorporated into EPP
5. The permittee shall follow the direction of the Department of Culture, Language, Elders and Youth and DIAND in restoring disturbed archaeological or palaeontological sites to an acceptable condition.  6. The permittee shall provide all information requested by the Department of Culture, Language, Elders and Youth concerning all archaeological sites or artifacts and all paleontological sites on an acceptable condition.	N/A	Incorporated into EPP
7. The permittee shall make best efforts to ensure that all persons working under authority of the permit are aware of these conditions concerning archaeological sites and artifacts, and paleeontological sites and fossils.	N/A N/A	Incorporated into EPP Incorporated into EPP
8. The permittee shall avoid the known archaeological and/or palaeontological sites listed in Attachment 1.  9. The permittee shall have an archaeologist or palaeontologist perform the following functions, as required by the Department of Culture, Language, Elders and Youth:	N/A	N/A
a. survey b. inventory and documentation of the archaeological or palaeontological resources of the land use area c. assessment of potential for damage to archaeological or palaeontological sites		A licensed archaeologist has conducted surveys each year as
t. assessment up potentian in utanitage an antiretrougheat on paraconiungida sites d. mitigation e. marking boundaries of archaeological or palaeontological sites f. site restoration f. site restoration	N/A	required by the regulations
1. ste restoration  The Department of Culture, Language, Elders and Youth shall authorize by way of a Nunavut Archaeologist Permit or a Nunavut Palaeontologist Permit, all procedures subsumed under the above operations.	N/A	N/A
NIRB Screening Decision February 22, 2008 - NIRB Recommended Project-Specific Terms and Con  1. Balfinland Iron Mines Corporation (the Proponent) shall forward copies of all amended permits obtained and new authorizations required for this amendment to the Nunavut Impact Review Board (NIRB or Board) prior to the commencement of the project.	1	Complete
2. The Proponent shall conduct project activities in accordance with all commitments stated in all documents provided to the NIRB, Indian and Northern Affairs Canada (INAC), Nunavut Water Board (INWB) and other government agencies in this application and in the application for its Geotechnical and Exploration Program.		Complete Ongoing
3. The Proponent is required to consult and submit a formal application as indicated by Transport Canada (TC) for Navigable Waters Protection Program (NWPP) with detailed drawings / plans and activities for applicable authorization.	Letters to Transport Canada dated December 10, 2007	Complete; approval granted
4. The Proponent is required that a revised Spill Contingency Plan be submitted to NIR8, Environment Canada (EC), INAC, Government of Nunavut – Department of Environment (GNDOE) and NWB along with 2007 Annual Report. It should include:	Spill Contingency Plan (Qikiqtaaluk Environmental, March 2008)	
a. Detailed site maps of various fuel caches in association with nearby facilities. b. The issues raised by interviewers during the Water License Amendment application with NWB.	Spill Contingency Plan (Baffinland, dated March 2009) (Baffinland, dated March 2010)	Complete
c. The wildlife protection measures regarding potential spills in marine areas during shipping, in particular implementing specific mitigation measures to keep birds out of any contaminated area and list what measures would be taken if birds do come in contact with	(Baffinland, dated March 2011) (Basponsibility of the Shipping Contractor	Ongoing
the spil.  5. The Proponent is required to submit a revised Wildlife Management and Monitoring Plan (WMMP) to NIRB, GN-DOE and INAC along with 2007 Annual Report for its Geotechnical and Exploration Program. The following perspectives should be addressed and included in the revised WIMMP:		
a. The mitigation and management measures specified in the revised WMMP should be detailed and site-specific including the proposed new activities and project components.  b. Revised WMMP should reflect monitoring results in 2007 field operation and any additional impact analysis based on 2007 operation season.	Wildlife Monitoring and Mitigation Plan (Knight Piésold Ref. No. NB102-00181/7-4, Rev. 0, dated August 20, 2008)	Complete
The proponent should demonstrate how the Caribon Protection Measures were applied in 2007. It is not clear in the current WMMP.      An explanation for choosing control and impact sites is required, and clear maps of the control and impact areas should be included in the WMMP.	, , , , , , , , , , , , , , , , , , , ,	
6. The Proponent shall verify its imigratory bird survey techniques to ensure that the methodologies used are appropriate and comparable to surveys done elsewhere in the region by contacting and consulting the Canadian Wildlife Service (CWS) of Environment Canada. Myra Robertson (Environmental Assessment Coordinator, Canadian Wildlife Service, Environment Canada, Suite 301, 5204-50th Avenue, Yellowknife, NT X1A 1E2, Phr. (867) 669.4763 or myra robertson@ec.gc.ca).	N/A	Complete
7. The Proponent is required to conduct stack testing to ensure compliance with the CWSs and report to NIRB, GN-DOE and INAC for its new incinerator employed.		
	2007 Annual Report to the Nunavut Impact Review Board	
	(Knight Piésold Ref. No. NB102-00181/11-1, Rev. 0, dated January 25, 2008) 2008 Annual Report to the Nunavul Impact Review Board (Baffinland, 2009)	Mary River incinerator tested in 2008 and 2009 as representative of
	2009 Annual Report to the Nunavut Impact Review Board (Baffinland, 2010)	all camps.
	2010 Annual Report to the Nunavut (pact Review Board (Baffinland, 2011)	
8. The Proponent shall include in its Annual Report for Geotechnical and Exploration Program all the proposing project activities and components described in this application. In addition to the requirements directed by NIRB in its Screening Decision Report dated		
March 26, 2007 for 07ENDOA, an accumulative effects assessment should be included in the Annual Report with respective to the additive and cumulative effects by the two subprojects and the proposed expansions of the one subproject (i.e., the geolechnical and exploration project) comprising the larger Mary River project.	2007 Annual Report to the Nunavut Impact Review Board (Knight Piésold Ref. No. NB102-00181/11-1, Rev. 0, dated January 25, 2008)	
	2008 Annual Report to the Nunavut Impact Review Board (Baffinland, 2009)	Complete
	2009 Annual Report to the Nunavut Impact Review Board (Baffinland, 2010)	Complete
	2010 Annual Report to the Nunavut Ipact Review Board	
	2010 Annual Report to the Nunavut Ipact Review Board (Baffinland, 2011)	
9. The Proponent shall respond to the comments and concerns raised by the CLARC members directly as part of community consultation program and submit to NIRB, Qikiqtani Inuit Association and other parties associated with this project any results of such consultation.	(Baffinland, 2011)  Baffinland met with the CLARCs in late March/early April 2008 during public consultation meetings	Complete: ongoing
consultation.  QIA Commercial Lease for Inuit Owned Lands Q071,30001	(Baffinland, 2011)	Complete: ongoing
consultation.  GIA Commercial Lease for Inuit Owned Lands Q07L3C001  4.00 PERMITTED ACTIVITIES  4.01 The Tenant agrees: (a) to use the Property for exploration of Minerals, the undertaking of engineering, geotechnical, and environmental studies in support of the planning for a potential major mining development, to engage in pre-construction staging activities and to complete a bulk	(Baffinland, 2011)  Baffinland met with the CLARCs in late March/early April 2008 during public consultation meetings	Complete: ongoing
consulation.  QIA Commercial Lease for inuit Owned Lands Q07L3C001  4.00 PERMITTED ACTIVITIES  4.01 The Tenant agrees:	(Baffinland, 2011)  Baffinland met with the CLARCs in late March/early April 2008 during public consultation meetings	Complete: ongoing
Consultation.  GIA Commercial Lease for Inuit Owned Lands Q07L3C001  4.00 PERMITTED ACTIVITIES  4.01 The Tenant agrees: (a) to use the Property for exploration of Minerals, the undertaking of engineering, geolechnical, and environmental studies in support of the planning for a potential major mining development, to engage in pre-construction staging activities and to complete a bulk sampling program (not exceeding a maximum extraction of 250,000 bors of iron one) as generally described and approved by the Numerul Impact Review Deard including the construction, installation, and use of and maintenance of such equipment, buildings, plant and other inflatationaries and solved in the review of the property of the property of the planning for a potential major mining development, to engage in pre-construction staging activities and to complete a bulk sampling program (not exceeding a maximum extraction of 250,000 bors of iron one) as generally described and approved by the Numerul Impact Review Deard including the construction, installation, and use of and maintenance of such equipment, buildings, plant and other inflatationaries and solvings provided may be conducted on the Property unless and until a Work Plan or a mended Wirk Plan as provided thereunded have here are provided the review of a represent of such Operations, by the	(Baffinland, 2011)  Baffinland met with the CLARCs in late March/early April 2008 during public consultation meetings	Complete: ongoing
Consultation.  GIA Commercial Lease for Inuit Owned Lands Q07L3C001  4.00 PERMITTED ACTIVITIES  4.01 The Tenant agrees: (a) to use the Property for exploration of Minerals, the undertaking of engineering, geolechnical, and environmental studies in support of the planning for a potential major mining development, to engage in pre-construction staging activities and to complete a bulk sampling program (not exceeding a maximum extraction of 250,000 bors of iron one) as generally described and approved by the Numerul Impact Review Deard including the construction, installation, and use of and maintenance of such equipment, buildings, plant and other inflatationaries and solved in the review of the property of the property of the planning for a potential major mining development, to engage in pre-construction staging activities and to complete a bulk sampling program (not exceeding a maximum extraction of 250,000 bors of iron one) as generally described and approved by the Numerul Impact Review Deard including the construction, installation, and use of and maintenance of such equipment, buildings, plant and other inflatationaries and solvings provided may be conducted on the Property unless and until a Work Plan or a mended Wirk Plan as provided thereunded have here are provided the review of a represent of such Operations, by the	(Baffinland, 2011)  Baffinland met with the CLARCs in late March/early April 2008 during public consultation meetings	Complete; ongoing
Consultation.  GIA Commercial Lease for Inuit Owned Lands Q07L3C001  4.00 PERMITTED ACTIVITIES  4.01 The Tenant agrees: (a) to use the Property for exploration of Minerals, the undertaking of engineering, geolechnical, and environmental studies in support of the planning for a potential major mining development, to engage in pre-construction staging activities and to complete a bulk sampling program (not exceeding a maximum extraction of 250,000 bors of iron one) as generally described and approved by the Numerul Impact Review Deard including the construction, installation, and use of and maintenance of such equipment, buildings, plant and other inflatationaries and solved in the review of the property of the property of the planning for a potential major mining development, to engage in pre-construction staging activities and to complete a bulk sampling program (not exceeding a maximum extraction of 250,000 bors of iron one) as generally described and approved by the Numerul Impact Review Deard including the construction, installation, and use of and maintenance of such equipment, buildings, plant and other inflatationaries and solvings provided may be conducted on the Property unless and until a Work Plan or a mended Wirk Plan as provided thereunded have here are provided the review of a represent of such Operations, by the	(Baffinland, 2011)  Baffinland met with the CLARCs in late March'early April 2008 during public consultation meetings in each of the five North Baffin communities near the Project	Complete, organij
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CIA Commercial Lease for Inuit Owned Lands 00/L3C001  4.00 PENUTYTID: ACTIVITIES  4.01 The Treaming appear.  (a) It is the Property for exploration of Minerals, the undertaking of engineering, geolechnical, and environmental studies in support of the planning for a potential major mining development, to engage in pre-construction staging activities and to complete a bulk sampling program (not exceeding a maximum extraction of 250,000 tons of iron ore) as generally described and approved by the Nunawut Impact Review Board including the construction, installation, and use of and maintenance of such equipment, buildings, plant and other infrastructure as is necessary to support such activities, provided no such Operations may be conducted on the Property unless and until a Work Plan as provided hereunder has been approved in respect of such Operations, by the Landord; and further provided that the areas marked as 'Camp' on Schedules' 'A1, A2 and A3' shall be used only as a camp area for temporary occupation of the Temart's employees, contractors and agents;  (b) to deliver to the Landord by not later than April 1st in each calendar year during the Term a Work Plan which shall include: (i) a description of the Operations and Work on the Property that the Tenant proposes by perform in that year.  (ii) Environmental Action Plans that the all include the activities to be undertaken in that year, the details of the environmental monitoring and reporting plans for the upcoming year, a report of the estimated costs to be incurred to implement the Environmental Action Plans for the year and the balance of the Term, and any other planned activities for the bram, and any other planned activities for the progressive:  (i) periodic and the bram of owner and the bram of other mannade debries; (i) replacement of owner of own	(Baffinland, 2011)  Baffinland met with the CLARCs in late March'early April 2008 during public consultation meetings in each of the five North Baffin communities near the Project	Complete, organia
Consultation.  GIA Commercial Lease for Inuit Owned Lands 007L3C001  4.09 PERMITTED ACTIVITIES  4.01 The Terrant agrees: (a) to use the Property for exploration of Minerais, the undertaking of engineering, postectional, and environmental studies in support of the planning for a potential major mining development, to engage in pre-construction staging activities and to complete a tulk (a) to use the Property for exploration of Minerais, the undertaking of engineering development and support of the planning for a potential major mining development, to engage in pre-construction staging activities and to complete a tulk (a) to use the Property for exploration in property of the construction installation, enter includings, part and other infrastructure as is necessary to support such achiefus, provided no such Operations may be conducted on the Property unless and until a Work Plan or amended Work Plan as provided hereunder has been approved in respect of such Operations, by the Landford; and further provided that the areas marked as "Camp" on Schedules "A1, A2 and A3" shall be used only as a camp area for temporary occupation of the Ternart's employees, contractors and agents:  (b) to deliver to the Landford by not later than April "st in each calendar year during the Term a Work Plan which shall include: (i) a description of the Operations and Work on the Property that the Tenant proposes by perform in that year.  (ii) a description of the Operations and Work on the Property that the Tenant proposes by perform in that year.  (ii) Environmental Action Plans the shall include the achief so the undertakine in that year, the details of the environmental monitoring and reporting plans for the upcoming year, a report of the estimated costs to be incurred to implement the Emfortmental Action Plans for the year and the balance of the Term, and any other planned activities for the balance of the Term, and which shall also include, but shall not be the activities and activities for the progressive:  (1) removal of all stru	(Baffinland, 2011)  Baffinland met with the CLARCs in late March'early April 2008 during public consultation meetings in each of the five North Baffin communities near the Project	Complete, organia
Consultation.  GIA Commercial Lease for Inuit Owned Lands 007L3C001  4.01 The Terrard agrees:  (a) to use the Property for exploration of Minerais, the undertaking of engineering, potentinal, and environmental studies in support of the planning for a potential major mining development, to engage in pre-construction slaging activities and to complete a bulk sampling program (not exceeding a maximum adarction of 250,000 loss of inon pe) as generally described and approved by the Numeral impact Review Board including the construction, installation, and use of an inatificance of such equipment, buildings, plant Landord, and further provided that the areas marked as "Camp" on Schedules "A1, A2 and A3" shall be used only as a camp area for temporary occupation of the Terrard's employees, contractors and agents;  (b) to deliver to the Landord by not later than April 1st in each calendar year during the Term a Work Plan which shall include:  (i) a description of the Operations and Work on the Property that the Ternard proposes by perform in that year.  (ii) a description of the Operations and Work on the Property that the Ternard proposes by perform in that year.  (iii) a description of the Operations and Work on the Property that the Ternard proposes by perform in that year.  (iv) a description of the Operations and Work on the Property that the Ternard proposes by perform in that year.  (ii) a description of the Operations and Work on the Property that the Ternard proposes by perform in that year.  (iii) Environmental Action Plans that the administration of the Termard admini	(Baffinland, 2011)  Baffinland met with the CLARCs in late Marchicarly April 2008 during public consultation meetings in each of the five North Baffin communities near the Project  Work Plan to the QIA	2010 Complete, 2011 Submitted for Approval.
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### PREMITTIES**  *********************************	Baffinland met with the CLARCs in late March'early April 2008 during public consultation meetings in each of the five North Baffin communities near the Project.  Work Plan to the CIA  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N	Complete NIA
Constitution  1. Control Contr	Baffinland met with the CLARCs in late March'early April 2008 during public consultation meetings in each of the five North Baffin communities near the Project.  Work Plan to the CIA  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N	Complete NIA
### PREMITTIES**  *********************************	Baffinland met with the CLARCs in late March'early April 2008 during public consultation meetings in each of the five North Baffin communities near the Project.  Work Plan to the CIA  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N	Complete NIA
### PREMITTIES**  *********************************	Baffinland met with the CLARCs in late March'early April 2008 during public consultation meetings in each of the five North Baffin communities near the Project.  Work Plan to the CIA  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N	Complete NIA
Test and the contraction of the	Baffinland met with the CLARCs in late March'early April 2008 during public consultation meetings in each of the five North Baffin communities near the Project.  Work Plan to the CIA  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N	Complete NIA
We AMADETICAL CONTRIBUTION  OF	Baffinland met with the CLARCs in late March'early April 2008 during public consultation meetings in each of the five North Baffin communities near the Project.  Work Plan to the CIA  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N	Complete
Test interest comments of the	Baffinland met with the CLARCs in late March'early April 2008 during public consultation meetings in each of the five North Baffin communities near the Project.  Work Plan to the CIA  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N	Complete



Part	TABLE 2.1  BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT		
	COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN STATUS OF COMPLIANCE WITH CONDITIONS, APPROVALS AND COMMITMENTS		
	liabilities, damages, costs, expenses, suits and claims of every nature and kind whatsover including, without limitation, the cost of defending and/or counterclaiming or claiming against third parties in respect of any action (all on the basis as between a solicitor and histher own cliently and any osci, liability, damage arriange out of any action against the Landdord or a settlement of any action entered into by the Landdord relating to any Environmental Damage, any prevador non-observance of any environmental term, condition or a settlement of any environmental term, condition or a settlement of the Landdord relating to any Environmental Damage, any prevador non-observance of any environmental term, condition or a settlement of the Landdord relating to any Environmental Damage, any prevador non-observance of any environmental term, condition or a settlement of the Landdord relating to any Environmental Damage, any prevador non-observance or any environmental term, condition or a settlement of the Landdord relating to any Environmental Damage, any prevador non-observance or any environmental term, condition or a settlement of the Landdord relating to any Environmental Damage, any prevador non-observance or any environmental term, condition or a settlement of the Landdord relating to any Environmental Damage, any prevador non-observance or any environmental parts, and the Landdord relating to any Environmental Damage, any prevador non-observance or any environmental parts, and the Landdord Relating to the Landdord Relat	DELIVERABLE	STATUS
		N/A	Ongoing
	(g) deliver to the Landlord, on or before March 1, 2008, and not later than March 1st of each subsequent year of the Term, a report, in form and scope satisfactory to the Landdord in respect of all environmental issues arising in respect of the Tenant's Operations and Work on the Property for the past calcidand year, which report shall include.  (1) information respecting the Tenant's compliance with the terms of this Lease and any permits or licenses required in respect of its Operations on the Property, together with details of any incidents of non-compliance, the results of any inspection reports prepared by or fines leived to war connected requisitor value of the results of any inspection reports prepared by or fines leived to war connected requisitor value of the results of any inspection reports prepared by or fines leived to war connected requisitor value of the results of any inspection reports prepared by or fines leived to war connected requisitor value of the results of any inspection reports prepared by or fines leived to war connected requisitors.		
	(4) a report on any Reclamation Work undertaken or required to be undertaken in accordance with this Lease;		
	(i) not later than one hundred twenty (120) days prior to the completion of Operations on the Property or the expiration of the Term or within one hundred twenty (120) days of early termination of the Lease, whichever first occurs, develop and submit for the approval of the Landord any final amendments or modifications to the Reclamation Plan for approval by the Landord;		
	repair the Property, to conform with any Applicable Environmental Laws or other laws of general application, or prejudice or impair any rights, indemnities, or remedies the Landlord may have against the Tenant, including without limitation any rights in respect of Environmental Damage to the Property.  (b) if required to conduct congoing reclamation or remediation subsequent to the expiry or termination of this Lease pursuant to any Environmental Action Plan including the Reclamation Plan (which shall not, in any event, exceed twelve (12) months from such		
The content of the	reclamation and remediation only and shall not permit the Tenant to carry on Operations on the Property,  (m) subject to all Environmental Action Plans (including the Reclamation Plan) or other land use agreement approved by the Landord, peaceably yield up and surrender the Property to the Landord at the expiration or sooner termination of this Lease in a good state		
	7.00 SECURITY DEPOSIT 7.01 Contemporaneously with the execution of this Lease, the Tenant shall deposit with the Landlord security of Five Million and Four Hundred and Seven Thousand Dollans (\$5,407.000) (the "Security Deposit") in a form specified in section 7.08. Any interest earned		
	7.02 If the Tenant breaches any material term, coverant or condition of this Lease, including, without limitation, failure to comply with an Environmental Action Plan, and fails to remedy such breach within the applicable time permitted pursuant to section 13.01 or if any Environmental Audit dentifies Environmental Damage not permitted by this Lease and the Tenant is unwilling or unable to condex Remedial Work to remedy such damage, the Landord mr. at its option and without prejudice to any other rights, on fifteen (15) days prior withen notice to the Tenant of its intention to do so, appropriate the and apply the Security Deposal or so much of its as may be reseasely, to compensate the Landord for loss or damage actually sustained by the Landord arising out of or incometion with		
	account of the costs and expenses incurred by the Landlord as a result of the Tenant's breach and the amount of the Security Deposit to be appropriated or applied.	N/A	Ongoing
	days' prior written notice to the Tenant of its intention to do so, appropriate and apply the Security Deposit or so much of it as may be necessary, to compensate the Landord for loss or  damage actually sustained by the Landord arising out of or in connection with such breach by the Tenant, or to compensate the Landord for the reasonable costs of any remediation or reclamation work it may undertake or cause to be undertaken under the terms of	N/A	Ongoing
	realize on the Security Deposit during the Term, the Tenant shall, within five (5) business days' receipt of written notice given by the Landford, replenish the Security Deposit by such amount of the security as may have been required to be realized on pursuant to this section 7.02.		
	the Landlord or the Tenent should identify, that the costs for remediation or reclamation activities or to recity any potential Environmental Damage not permitted by this Lease may, reasonably considered, be in excess of the amount of the Security Deposit, the Tenent shall, within ten (10) business days' receipt of written notice from the Landlord, increase the Security Deposit by the amount of such excess costs. If at any time during the Term the Tenent delivers to the Landlord an Environmental Action Plan (including as part of a Work Plan) acceptable to the Landlord which identifies new or revised costs for remediation or reclamation activities that are less than the amount of the Security Deposit, the Landlord shall,	N/A	Ongoing
The state of the	within thirty (30) days' receipt of a written request from the Tenant, provide written confirmation to the Tenant that the Security Deposit can be decreased by the amount which is the difference between the new or revised costs for remediation or reclamation activities and the costs applicable prior to such request. The Landord agrees to cooperate with the Tenant in providing or executing such documentation as may be necessary to give effect to the decrease in Security Deposit.		. 3 3
	for activities undertaken on the Property pursuant to this Lease and the associated costs for remediation or reclamation activities, the Landord shall, within thirty (30) days' receipt of a written request from the Tenant, provide written confirmation to Nunavut Water Board , Nunavut Impact Review Board or Indian and Northern Affairs Canada as to the amount of the Security Deposit and shall recommend that any further security deposit	N/A	Ongoing
The content of the	required to post with the Nursavul Water Board or Indian and Northern Affaira Canada, or any federal Crown department or agency. The Landlord agrees to cooperate with the Tenant in providing or executing such documentation as may be necessary to recommend a decrease in any other similar security deposit(s) for activities undertaken on the Property.		
Part	the Security Deposit which is equal to the percentage cost of work completed or which may not be required pursuant to the final Reclamation Plan of the total Security Deposit at the time of the lodging of the final Reclamation Plan, subject to a minimum holdback of twenty (20%) percent. Any holdback greater than twenty (20%) percent must be reasonably justified and based upon an Environmental Audit conducted pursuant to the final Reclamation Plan.  7.06 If the Tenant has been required to post security with the Nunavut Water Board or Indian and Northern Affairs Canada, or any federal Crown department or agency, for activities undertaken on the Property pursuant to this Lease and the associated costs for	N/A	Ongoing
Marches   Marc	remediation or reclamation activities, the parties agree that, provided the Tenant is not in default hereunder, following commencement of the activities required by the final Reclamation Plan, the Landford shall, upon request of the Tenant, at not less than six (6) month intervals, recomment to the Numaruk Water Board or Indian and Notherian Affairs Canada that they release to the Tenant that percentage of any security deposits held by such thing parties which is equal to the percentage cost of voix completed or which may not be	N/A	Ongoing
	termination of this Lesse) the balance of the Security Deposit, plus interest (if any) shall be released to the Tenant.  7.08 The security shall be in a form and content acceptable to the Landford and may, at the option of the Tenant, be in the form of:	N/A	Ongoing
Section of the control of the contro	(b) promissory note guaranteed by a Canadian chartered bank and payable to the Landlord; (c) a certified cheque drawn on a Canadian chartered bank and payable to the Landlord; (d) a letter of credit issued by a Canadian chartered bank substantially in the form of Schedule "L" attached hereto, naming the Landlord as the beneficiary, and/or	Security Deposit Posted Under 7.01	Complete
Part	assignment and agreed to be liable pursuant to this Lease for activities of the Tenant occurring prior to the assignment date, the Landford shall, within five (5) business days of the posting of such security, release the Security Deposit or such portion of it remaining (and any interest thereon) to the Tenant shere upon the Tenant shall have no further obligation or liability to the Landford in respect therefor. In the event that the permitted assignee does not agree to be liable as herein provided the Tenant agrees that it shall remain.	N/A	Openion
### Part	8.00 LANDLORD'S OBLIGATIONS	(90)	Unguing
Second process   Seco	(a) pursuant to the NLCA, it is the owner of an estate in fee simple of the surface rights of the Property, save and except for the mines and minerals that may be found to exist therein together with the right to work the same, but including the right to all Specific Substances, subject only to: (i) supplication high sand interests are provided in the NLCA and all of the Property and in Tiles Act (Nunexut), and (iii) the encombrances and interests endorsed on any certificate of tile for the estate in fee simple of and in the surface rights of the Property, none of which materially adversely affect the rights of the Tenant under this Lease; and (ii) the Tenant, paying the rent hereby reserved and observing and performing the coverants on its part herein contained, shall peaceasity hold and enjoy the Property during the Term without any interruption or disturbance by the Landdord or any person rightfully	N/A	Ongoing
Company	8/12 Upon expiry of the Term and fulfillment by the Tenant of all of its obligations pursuant to this Lease, the Landord shall provide to the Tenant written confirmation that the Tenant has completed all of its requirements under this Lease, including, without limitation, with respect to previously confirmation and remediation provided that each confirmation shall not constitute a waiver or exclusioners by the Landord visit respect to any obligations pursuant.		
Commonwealth	8.03 The Landlord may release information relating to the Operations to the public. The parties agree to work co-operatively in developing any joint release of information arising from a Work Plan.		
Part	economic development and opportunities in the Qikiqtani Region of Nunavut.		
The content of the co	primarily carry on business in the Qikiqtani Region of Nunavut, for goods and services required for its Operations on the Property in accordance with the Socio-Economic Terms and Conditions set forth in Schedule "H" attached hereto, and shall also cause or procure	N/A	Ongoing
The state of the s	9.05 The Tenant shall, prior to commencement of the Term and on or before April 1st of each year of the Term, submit to the Landlord for its approval the Tenant's proposed plan for implementation of sections 9.03 and 9.04, including, without limitation, the Tenant's		
The first and an international control and an	Inult Impact and Benefit Agreement may both apply, in respect of the same subject matter or otherwise, unless expressly stated to the contrary, and the provisions thereof shall be interpreted so as to enhance the maximum benefit for Inult. In the event of a conflict between the provisions of this Lease and the terms of any Inult Impact and Benefit Agreement, the provisions of the Impact and Benefit Agreement shall take priority, but only to the extent of such conflict.	N/A	Ongoing
in protection for the content and and exclusions protein security of the content and an exclusion of the content and an exclus	10.01 Provided the Tenant pays the rent and observes and performs the terms and conditions on its part herein contained, the Tenant may renew this Lease let a further term of one (1) year from the expiration of the Term. Any further renewal shall be as may be agreed by the granter. Any renewal of this Lease shall be a budget to the terms and conditions before in contained excepting only this right of renewal, at a rent to be determined pursuant to escetom 10.03 hereof to this rich shall be as may be agreed by the print of the contained and the contained are shall be as may be agreed by the print of the contained are shall be as may be agreed by the print of the contained are shall be as may be agreed by the print of the contained are shall be as may be agreed by the print of the contained are shall be as may be agreed by the print of the contained are shall be as may be agreed by the print of the contained are shall be as may be agreed by the print of the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the contained are shall be as may be agreed by the conta	N/A	Ongoing
The first principle in process of the control of th	right to renew this Lesse and the Landlord shall not be obliged to grant a renewal of the Term.		
The content and the control in character an	10.04 The Tenant may dispute the renewal rent set by the Landford, within thirty (30) days next following the date that the Landford gives notice of the renewal rent, by advising the Landford in writing of its intention to dispute the rent set by the Landford and also notifying the Landford of its alternate proposal for the renewal rent, it, within thirty (30) days following receipt by the Landford of such notice from the Tenant, the parties are unable to agree upon the renewal rent, the matter shall be referred to the Surface Rights		
The process of surface of supplies to plane of supplies to supplie	11.01 Whenever and to the extent that either party is bona fide unable, despite its best efforts, to fulfill or is delayed or restricted in fulfilling any of its obligations under this Lease by an event of Force Majeure, such party shall be relieved from the fulfillment of the part of its obligations affected by Force Majeure during the period of Force Majeure.	N/A	Ongoing
Control options   Control op	for any insurance or any other obligation to pey money or from obtaining any form of security, including a Letter of Credit, as required by this Lease.  12.00 MONITORING  12.01 The proposed Monitoring Plan, attached hereto as Schedule "F", is subject to approval in writing by the Landford prior to implementation, and may be amended by the agreement of the parties in writing. The parties covenant to take all steps, and perform such tasks, as shall be reasonably necessary to implement the Monitoring Plan, as amended, including those provisions relating to ongoing monitoring. This covenant shall survive the expiry or early termination of this Lease, howsoever occurring, and shall remain binding		
The Position and an American in the Ministration of the procession in the internation of the growth on an internation of the procession in the internation of the growth on the procession of the internation of the growth on the procession of the internation of the growth on the procession of the internation of the growth on the growth on the procession of the internation of the growth on the	upon the parties.  12 02 Subject to section 3.02(b), the Tenant shall be responsible for all costs of the Landlord arising from the Monitoring Plan, including without limitation the Landlord's reasonable costs for the Environmental Auditor, and all other reasonable monitoring costs. The Environmental Auditor shall be appointed by the Landlord, acting in its sole discretion, to monitor the Operations and the Tenant's compliance with this Lesse or any Environmental Auditor. Plan. The role, responsibilities and authority of the Environmental Auditor are		
Southern As to the or took as found in a final and makes are the final point of the Tourne and the National Conference of the Southern Conference of the Sou	implementation of the provisions in the Reclamation Plan and the Monitoring Plan that are in respect of monitoring subsequent to the completion of the Operations and the Work.	N/A	Ongoing
The Persiste and in control that is an inches and inches and the following of the persists of of th	Operations and the Work and shall include such further matters as may be necessary or desirable to ensure the Tenant's compliance with its obligations to remediate and reclaim, as near as possible to its original state prior to the Tenant's entry on the Property		
2. The Permittee shall not contribute and present on any lates and designated in the acception graph, benefit and see graph and on the present of the shall be shal	binding on the parties. The minimum terms and conditions of the Monitoring Plan and Reclamation Plan that are in respect of monitoring and Reclamation Work subsequent to the completion of the Operations and the Work shall survive the termination of this Lease and shall continue in full force and effect as binding obligations of the parties.	N/A	Ungoing
Conjunt   Petrol field No. 1807-0.00116-0.00	31(f)(a) - Location and Area  1. The Permittee shall not conduct this land use operation on any lands not designated in the accepted application, unless otherwise authorized in writing by the Engineer.		Incorporated into EPP
4. The Permittee shall locate all camps on grawl, sand or other durable land.  A The Permittee shall locate all camps on grawl, sand or other durable land.  A The Permittee shall content or new with a Land Live Inspector at the liquid office of the Oppartment of Indian Affairs and Northern Development, phone number (867) 975-4207, at least 46 hours prior to the commencement of this land use caperation.  B. The Permittee shall complete all clean-up, and restoration of the land used prior to the capity date of this permit.  Not officiation  C. The Permittee shall content in land and shall use a Land Use Inspector at least 10 days prior to the comprision of the land use operation of the l		(Knight Piésold Ref. No. N8102-0018/18-7, Rev. 2, dated March 31, 2008) 2009 Abandoment & Reclamation Plan (Knight Piesold Ref. No. N8102-1817/5-1, Rev. 0, dated March 26, 2009) 2010 Abandoment & Reclamation Plan (Baffinland dated March 2010) 2011 Abandoment & Reclamation Plan 2011 Abandoment & Reclamation Plan 2011 Abandoment & Reclamation Plan	Ongoing
5. The Permittee shall acted and desires and entire shall acted and	4. The Permittee shall locate all camps on gravel, sand or other durable land.  31(1)(b) - Time		
a) by when final clears-up and restoration of the lands used will be 31/10/- Equipment  8. The Permittee shall not use any equipment except of the type, size and number that is listed in the accepted application, unless otherwise authorized in writing by the Land Use Inspector  9. The Permittee shall be equipment and detairs in a container acceptable to the Land Use Inspector.  9. The Permittee shall be equipment and detairs in a container acceptable to the Land Use Inspector.  9. The Permittee shall be equipment and part and acceptable application, unless otherwise authorized in writing by the Land Use Inspector.  9. The Permittee shall be equipment and part and acceptable to the Land Use Inspector.  9. The Permittee shall be equipment and part and acceptable to the Land Use Inspector.  9. The Permittee shall be equipment and detairs in a container acceptable to the Land Use Inspector.  9. The Permittee shall be equipment and detairs in a container acceptable to the Land Use Inspector.  9. The Permittee shall be equipment and detairs in a container acceptable to the Land Use Inspector.  9. The Permittee shall plug all toor holes as the use land use operation progresses.  9. The Permittee shall plug all toor holes as the use and use operation progresses.  9. The Permittee shall plug all toor holes as the use and use operation progresses.  9. The Permittee shall not be accepted and Developed and Particular of Permittees shall not be accepted and the permittees shall not be accepted and Developed and Particular Shall plug and Developed and Particular Shall plug and Developed and Particular Shall plug and Developed and Shall plug and Developed	5. The Permittee's Field Supervisor shall contact or meet with a Land Use inspector at the Iqaiut office of the Department of Indian Affairs and Northern Development, phone number (867) 975-4297, at least 48 hours prior to the commencement of this land use coeration.  6. The Permittee shall complete all clean-up and restoration of the lands used prior to the expiry date of this permit.		
8. The Permittee shall not use any equipment except of the type, size and number that is listed in the acceptable to the Land Use Inspector.  9. The Permittee shall not use any equipment exceptable to the Land Use Inspector.  10. The Permittee shall a plantage and debris in a container acceptable to the Land Use Inspector.  10. The Permittee shall a plantage and debris in a container acceptable to the Land Use Inspector.  10. The Permittee shall a plantage and debris in a container acceptable to the Land Use Inspector.  10. The Permittee shall not except acceptable to the Carpor of the Section of th	7. The Permittee shall advise a Land Use Inspector at least 10 days prior to the completion of the land use operation of, a) his plans for removal or storage of equipment and materials, and b) when final clear-up and restoration of the lands used will be 3ff(y/c) - Equipment	Notification	
10. The Permittees shall keep all garbage and debrits in a covered metal container until disposed of.  11. The Permittees shall keep all garbage and debrits in a covered metal container until disposed of.  11. The Permittees shall plug all bore holds as the use land use operation progresses.  11. The Permittees shall plug all bore holds as the use land use operation progresses.  11. The Permittees shall plug and Deveration of Facilities.  13. The Permittees shall not Locate any sump within 33 metres of the normal high water mark of any stream.  14. The Permittees shall not Locate any sump within 33 metres of the normal high water mark of any stream.  15. The Permittees shall not Locate any sump within 33 metres of the normal high water mark of any stream.  16. The Permittees shall not Locate any sump within 33 metres of the normal high water mark of any stream.  17. The Permittees shall not Locate any sump within 33 metres of the normal high water mark of any stream.  18. The Permittees shall excellant on Permittees shall not Locate any sump within 33 metres of the normal high water mark of any stream.  18. The Permittees shall excellant on Permittees shall not be such as marked shall be permittee the stream of the	8. The Permittee shall not use any equipment except of the type, size and number that is listed in the accepted application, unless otherwise authorized in writing by the Land Use Inspector  9. The Permittee shall burn all combustible garbage and debris in a container acceptable to the Land Use Inspector.	N/A	Incorporated into EPP
31/(19c) - Type, Location, Capacity and Operation of Facilities	31(1/g) - Methods and Techniques 11. The Permittee shall jug all bore holes as the use land use operation progresses	N/A	Incorporated into EPP
15. The Permittee shall ensure that the land use area is kept Clean and tidy at all times.  NA Incorporated into EPP  16. a) The Permittee shall, where flowing water from bore holes is encountered, plug the bore hole in such a manner as to permanently prevent any further outflow of water.  N/A Incorporated into EPP  N/A Incorporated into EPP  19. The affestian occurrence shall be reported to the Engineer within forty-eight (48) hours.  NA (norporated into EPP  18. The Permittee shall prepare the site in such a manner as to prevent rutting of the ground surface.  N/A (norporated into EPP  19. The Permittee shall prepare the site in such a manner as to prevent rutting of the ground surface.  N/A (norporated into EPP  20. The Permittee shall prepare the site in such a manner as to prevent rutting of the ground surface.  N/A (norporated into EPP  20. The Permittee shall suspend overland travel of equipment or vehicles in futting occurs.  N/A (norporated into EPP	12. The Permittee shall not rerect camps or store material on the surface ice of streams 31(1)(e) - Type, Location, Capacity and Operation of Facilities 13. The Permittee shall not locate any sump within 33 metres of the normal high water mark of any stream.	N/A	Incorporated into EPP
b) The artesian occurrence shall be reported to the Engineer within forty-eight (48) hours.  Notification  Ongoing  17. The Permittee shall install erosion control structures as the land use operation procresses unless otherwise authorized by a Land Use Inspector.  NA hospitalish and the PP  19. The Permittee shall engage the set in such a name as to prevent fulling of the ground surface. In NA  Incorporated into EPP  19. The Permittee shall now early equipment or vehicle surfaces he ground surface is in a shall capable of high upporting the equipment or vehicles without rutting or gouging.  NA hospitalish of EPP  NA hospitalish of EPP  NA hospitalish of EPP  NA hospitalish of EPP	15. The Permittee shall ensure that the land use area is kept clean and tibly at all times. 31/1/10 - Country or Prevention of Expending of Expending and Subsidience of Land	N/A	Incorporated into EPP
20. The Permittee shall suspend overland travel of equipment or vehicles if rutting occurs.  NA Incorporate on the PPP	b) The artesian occurrence shall be reported to the Engineer within forty-eight (45) hours.  17. The Permittee shall install erosion control structures as the land use operation progresses unless otherwise authorized by a Land Use Inspector.  18. The Permittee shall prepare the site insuch an amorne as to prevent unling of the ground surface.	Notification N/A N/A	Ongoing Incorporated into EPP Incorporated into EPP
	20. The Permittee shall suspend overland travel of equipment or vehicles if ruting occurs.		



#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

# COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN STATUS OF COMPLIANCE WITH CONDITIONS, APPROVALS AND COMMITMENTS

STATUS OF COMPLIANCE WITH CONDITIONS, APPROVALS AND COMMITMENTS	DELIVERABLE	STATUS
21. The Permittee shall depost all sewage into a sump. 22. The Permittee shall depost all of ill waste into a sump. 23. The Permittee shall not good any drilling waste to spread to the surrounding lands or water bodies.	DELIVERABLE NIA NIA NIA NIA	Incorporated into EPP Incorporated into EPP Incorporated into EPP
23. The Pelmittee shall remove all non-combustible garbage and debris from the land use area to a disposal site approved in writing by a Land Use Inspector.  24. The Permittee shall remove all non-combustible garbage and debris from the land use area to a disposal site approved in writing by a Land Use Inspector.	Bulk Sampling Program - Landfill Design and Operations	Ongoing
25. The Permittee shall dispose of all combustible waste petroleum products by incineration or removal.	(Knight Piésold Ref. No. NB102-00181/10-6, Rev. 1, dated March 31, 2008)  N/A	Incorporated into EPP
26. The Permittee shall dispose of all toxic or pensistent substances in a manner as approved in writing by the Engineer.  27. The Permittee shall report all spills immediately in accordance with instructions contained in "Spill Report" form NWT 1752 (05/93) Twenty four (24) hour spill report line (867) 920-8130.	N/A N/A	Incorporated into EPP Incorporated into EPP and Spill Contingency Plan
31(1/h)- Wildlife and Fisheries Habitat 28. The Permittee shall not unnecessarily damage wildlife habitat in conducting this land use operation. 29. You operation is in an area where bears may be encountered. Proper food handling and garbage disposal procedures will lessen the likelihood of bears being attracted to your operation. Information about the latest bear detection and deterrent techniques can	N/A	Incorporated into EPP
be obtained from the Department of Renewable Resources at Iquilut.  31(1)(i) - Objects and Places of Recreational, Scenic and Ecological Value	N/A	Ongoing
30. The Permittee shall not freed wildlife.  3f(f)(k) - Petroleum Fuel Storage 31. The Permittee shall not place any petroleum fuel storage containers within thirty one (31) metres of the normal high mark of any stream.	N/A N/A	Incorporated into EPP Incorporated into EPP
32. The Permittee shall not allow petroleum products to spread to surrounding lands or into water bodies.  33. The Permittee shall have one extra fuel storage container on site equal to, or greater than, the size of the largest fuel container.  34. The Permittee shall	N/A N/A	Incorporated into EPP Incorporated into EPP
a) Examine all fuel storage containers for leaks a minimum of once every day.     b) Repair all leaks immediately	Controls and inspections to prevent potential impacts from fuel leaks in active operations.	A risk-based Fuel Management and Control Plan has been developed and implemented.
The Permittee shall seed all container outlets except the outlet currently in use.      The Permittee shall mark all fuel containers with the Permittee's name.      The Permittee shall mark all fuel containers with the Permittee's name.      The Permittee shall mark all fuel containers with the Regulations.	N/A N/A	Incorporated into EPP Incorporated into EPP
37. The Permittee shall not remove any material from below the ordinary high water mark of any stream without first obtaining written permission from a Land Use Inspector.  38. The Permittee shall display a copy of this permit in a conspicuous place in each campsite established to carry out this land use operation.	N/A N/A	Incorporated into EPP Copies are on site
19. Part 1 - In this Permit     Sump" means a man-made pit, thrench hollow or cavity in the earth's surface used for the purpose of depositing waste material therein.     Totil waste "means all materials or chemicals, solid or liquid, associated with the drilling of bore holes and includes bore hole cuttings.	N/A N/A	Information Information
40. The Permittee shall submit to the Engineer a contingency plan, for chemical and petroleum spills, for use during the construction and operation of the winter road.	Spill Contingency Plan (Qikiqtaaluk Environmental, March 2008) Spill Contingency Plan	Complete
	(Baffinland, dated March, 2009) (Baffinland, dated March 2010) (Baffinland, dated March 2011)	Compact
ADDED AS PER MARCH 14, 2008 AMENDMENT  1. The Permitee shall not use bladders for storing petroleum products.  2. The Permitee shall not use bladders for transporting petroleum products.	N/A N/A	N/A N/A
Archaeology Terms and Conditions  1. The Permittee shall not operate any vehicle over a known or suspected archaeological or palaeontological site.  2. The permittee shall not remove, disturb, or displace any archaeological artifact or site, or any fossill or palaeontological site.	N/A N/A	Incorporated into EPP Incorporated into EPP
3. The Permittee shall immediately contact the Department of Culture, Language, Elders and Youth (867) 934-2046 or (867) 975-5500 or 1 (866) 934-2035 should an archaeological site or specimen, or a palaeontological site or fossil be encountered or disturbed by any land use activity.  4. The Permittee shall immediately cease any activity that disturbs an archaeological or palaeontological site encountered during the course of a land use operation, until permitted to proceed with the authorization of the Department of Culture, Language, Elders and	N/A N/A	Incorporated into EPP
Youth, Government of Nunavur.  5. The Permittee shall follow the direction of the Department of Culture, Language, Elders and Youth and DIAND in restoring disturbed archaeological or palaeontological sites to an acceptable condition.	N/A N/A	Incorporated into EPP Ongoing
6. The Permittee shall provide all information requested by the Department of Culture, Language, Elders and Youth concerning all archaeological sites or artifacts and all palaeontological sites and fossils encountered in the course of any land use activity.  7. The Permittee shall make best efforts to ensure that all persons working under authority of the permit are aware of these conditions concerning archaeological sites and artifacts, and palaeontological sites and fossils.	N/A	Ongoing
8. The Permittee shall avoid the known archaeological and/or palseontological sites listed in Attachment 1.  9. The permittee shall have an archaeologist or palseontologist perform the following functions, as required by the Department of Culture, Language, Elders and Youth	N/A N/A	Ongoing Ongoing
a) survey b) inventiony and documentation of the archaeological or palaeontological resources of the land use area c) assessment of potential for damage to archaeological or palaeontological sites	Archaeology Assessment Report	
d) mitigation e) making boundaries of archaeological or palaeontological sites f) site restoration f) site restoration	(Knight Piésold Ref. No. NB07-00348, dated April 30, 2007) 2007 Archaeology Investigations Final Permit Report	
The Department of Culture, Language, Elders and Youth shall authorize by way of a Nunavut Archaeologist Permit or a Nunavut Palaeoniological Permit, all procedures subsumed under the above operations	(Points West Heritage Consulting Ltd. NU Archaeologist's Permit 2007-017A, dated May 31, 2008) Steensby Inlet 2008 Archeological Investigations Final Permit Report (Knight Piesoid Ref. No. NB102-181/15-A.01, dated March, 2009)	N/A
	2008 Archeological Investigations Northern Section Final Report (Knight Piesod Ref. No. NBC)2-181/15-A/J, dated March 20, 2009) Mary River Project, Nunavut, 2010 Archaeological Investigations. Final Permit Report (NU	
	Archaeologist's Permit 2010-026A).	
INAC Land Use Permit N2007F0004		
31 (1) (A) LOCATION AND AREA  1. The Permittee shall not conduct this land use operation on any lands not designated in the accepted application, unless otherwise authorized in writing by the Engineer	N/A	Incorporated into EPP
2. The Permittees shall remove from Territorial Lands, all scrap metal, discarded machinery and parts, barrels and kegs, buildings and building material	Abandonment and Reclamation Plan (Knight Piésold Ref. No. NB102-001816-7, Rev. 2, dated March 31, 2008)	
	2009 Abandonment & Reclamation Plan (Knight Piesold Ref. No. NB102-181/15-1, Rev. 0, dated March 26, 2009)	Complete
	2010 Abandonment & Reclamation Plan (Baffinland dated March 2010) 2011 Abandonment & Reclamation Plan	****
3. The Permittee shall not construct an adit or drillsite within 31 meters of the normal high water mark of a stream unless approval in writing is obtained from the Engineer	(Baffinland dated March 2011)  N/A	Incorporated into EPP
3 (1)(8) TIME  4. The Permittee's Field Supervisor shall contact or meet with a Land Use Inspector at the Iqaluit office of the Department of Indian Affairs and Northern Development, phone number (867) 975-4296, at least 48 hours prior to the commencement of this land use		
operation.  5. The Permittee shall advise a Land Use inspector at least 10 days prior to the completion of the land use operation of, a) his plans for removal or storage of equipment and materials	Notification  Notification	Complete  Not yet required
b) when final clean-up and restoration of the lands used will be completed  6. The Permittee shall complete all clean-up and restoration of the lands used prior to the expiry date of this permit.  7. The Engineer reserved the right is impose closure of any area to the Permittee in periods when dancers to natural resources are severe	N/A N/A	Not yet required N/A
31 (1) (c) EQUIPMENT  8 The Permittee shall not use any equipment except of the type, size, and number that is listed in the accepted application, unless otherwise authorized in writing by the Land Use Inspector	N/A	Ongoing
9. The Permittee shall keep all garbage and debris in a covered metal container until disposed of. 31 (1)(0) - METHODS AND TECHNIQUES 10. The Permittee shall sceep the sides of excavations and embankments except in solid rock to a horizontal/vertical ratio of 2.1 unless otherwise authorized in writing by the Land Use inspector	N/A	Incorporated into EPP
31 (1) (E) - TYPE, LOCATION, CAPACITY AND OPERATION OF FACILITIES  11. The Parmittee shall ensure that the land use area is ked clean and tidy at all times	N/A N/A	Incorporated into EPP Incorporated into EPP
31 (1) (F) - CONTROL OR PREVENTION OF FLOODING, EROSION, AND SUBSIDENCE OF LAND  12. The Permittee shall remove any obstruction to natural drainage caused by any part of this land use operation  13. The Permittee shall not cut any stream bank unless qualitorized in writing by a Land Use thespector	N/A N/A	Incorporated into EPP N/A
14. The Permittee shall install erosion control structures as the land use operation progresses unless otherwise authorized by a Land Use Inspector  15. The Permittee shall prepare the site in such a manner as to prevent rutting of the ground surface.  17 (1) (G) USE, STORAGE, HANDLING AND DISPOSAL OF CHEMICAL OR TOXIC MATERIAL.	N/A N/A	Incorporated into EPP Incorporated into EPP
16. The Permittee shall not use chemicals in connection with the land use operation without the prior approval of the Engineer  17. The Permittee shall remove all non-combusible garbage and debris from the land use area to a disposal site approved in writing by a Land Use Inspector	N/A  Bulk Sampling Program - Landfill Design and Operations	Incorporated into EPP
		Ongoing
10. The Complex shall focus of all costs of the costs of	(Knight Piésold Ref. No. NB102-00181/10-6, Rev. 1, dated March 31, 2008)	
18. The Permittee shall dispose of all combustible waste petroleum products by incineration or removal  19. The Permittee shall dispose of all spills immediately in accordance with instructions contained in "Spill Report" form NWT 1752(0593) Twenty four (24) hour spill report line (867)920-8130  21 (1) AN MIT IN LEGARD FRENCHES MAD FIRST.	(Kriight Plésold Ref. No. NB102-00181/10-6, Rev. 1, dated March 31, 2008)  N/A  N/A	Incorporated into EPP Incorporated into EPP and Splil Contingency Plan
19. The Permittee shall report all spills immediately in accordance with instructions contained in "Spill Report" form NWT 1752(0593) Twenty four (24) hour spill report line (867)920-8130  31 (1) (ii) WILDLIFE AND FISHERIES HABITAT  20. The Permittee shall not detenate explosives within fifteen (15) meters of any body of water which is not completely frozen to the bottom.  21. Aircraft lake-offs and landings are prohibited if carbou monitoring indicates presence of carbou within 1 km of the airstrips and/or helipads.	(Knight Piésold Ref. No. NB102-00181/10-6, Rev. 1, dated March 31, 2008)  N/A	Incorporated into EPP Incorporated into EPP
19. The Permittee shall report all spills immediately in accordance with instructions contained in "Spill Report" form NWT 1752(05/93) Twenty four (24) hour spill report line (867)920-8130  31 (1) (H) WILDLIFE AND INSHERIES HABITAT  20. The Permittee shall not deborate explosives within fifteen (15) meters of any body of water which is not completely frozen to the bottom.  21. Aircraft take-offs and landings are prohibited if carbou monitoring indicates presence of carbou within 1 km of the airstrips and/or helipads.  31 (1) (K) PETROLEUM PULE STORAGE  22. The Permittee shall report in writing to a Land Use inspector the location and quantity of all petroleum fuel caches within ten (10) days after the establishment	(Kriight Plésold Ref. No. NB102-00181/10-6, Rev. 1, dated March 31, 2008)  N/A  N/A  N/A  N/A	Incorporated into EPP Incorporated into EPP and Spill Contingency Plan Incorporated into EPP Incorporated into EPP Incorporated into EPP NA
19. The Permittee shall report all spills immediately in accordance with instructions contained in "Spill Report" form NWT 1752(05/93) Twenty four (24) hour spill report line (867)920-8130  31 (1) (H) WILDLIFE AND INSHERIES HABITAT  20. The Permittee shall not deborate explosives within fifteen (15) meters of any body of water which is not completely frozen to the bottom.  21. Aircraft take-offs and landings are prohibited if carbou monitoring indicates presence of carbou within 1 km of the airstrips and/or helipads.  31 (1) (K) PETROLEUM PUEL STRAGE	(Kriight Présold Ref. No. NB102-00181/10-8, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  Written notification	hoosponated into EPP hoosponated into EPP and Spill Contingency Plan hoosponated into EPP hoosponated into EPP hoosponated into EPP
19. The Permittee shall report all splits immediately in accordance with instructions contained in "Split Report" form NWT 1752(05/93) Twenty four (24) hour split report line (867)920-8130 31 (1) (PI WILL DLEF AND PISHERES HABITAT 2. The Permittee shall not deliverable explicatives within fifteen (15) meters of any body of water which is not completely frozen to the bottom.  31 (1) (RI PETROLEUM PULS STORAGE 2. The Permittee shall not place any petroleum fuel storage containers within thinty) on and quantity of all pertoleum fuel actions within the (10) days after the establishment 23. The Permittee shall not place any petroleum fuel storage containers within thinty-on (31) meters of the normal high water mark of any stream 24. The Permittee shall not allow petroleum products to spread to surrounding lands or into water bodies 25. The Permittee shall not allow petroleum actions are contained and the surrounding lands or into water bodies 26. The Permittee shall not allow petroleum deach stationary fuel containers where any one container has a capacity exceeding 4,000 litres.	(Kriight Présold Ref. No. NB 102-00181/10-8, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  Written notification  NIA	Incorporated into EPP Incorporated into EPP and Spill Contingency Plan Incorporated into EPP Incorporated into EPP Incorporated into EPP Incorporated into EPP A risk-based Fuel Management and Control Plan has been
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19. The Permittee shall report all splits immediately in accordance with instructions contained in "Split Report from NWT 1752(05/93) Twenty four (24) hour split report line (867)920-8130 31 (1) (9) WILDLIFE AND FISHERIES HABITAT  20. The Termittee shall not delicate accounts within fifthen (15) medies of any body of vaster which is not completely floars in the bottom.  31 (1) (9) WILDLIFE AND FISHERIES HABITAT  20. The Termittee shall not place any petroleum found could not a quantity of all petroleum fluet accesses within 16 (1) days after the establishment  21. The Permittee shall not place any petroleum fluel storage containers within flitty-one (31) meters of the normal high water mark of any stream  22. The Permittee shall not allow petroleum products to spread to surrounding lands or into water bodies  23. The Permittee shall control reportious more products to spread to surrounding lands or into water bodies  24. The Permittee shall control advice around each stationary fuel container or group of stationary fuel containers where any one container has a capacity exceeding 4,000 litres.  25. The Permittee shall control a dyle around each stationary fuel container or group of stationary fuel containers where any one container has a capacity exceeding 4,000 litres.  31 (1) (M) MATTERS NOT CONSISTENT WITH THE REGULATIONS  26. The Permittee shall incremove any material throm blow the ordinary high water mark of any stream without first obtaining written permission from a Land Use Inspector  27. The Permittee shall keep on hand, at all times during this land use operation, a copy of the Land Use Permit and a copy of the NIRS Screening Decision.	(Knight Présold Ref. No. NB102-00181/10-B, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  NIA  NIA  Written notification  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  NIA  NIA  NIA  NIA  NIA  Spill Contingency Plan  (Olispiand Concorneated Nation 2009)  Spill Contingency Plan  (Olispiand Concorneated Nation 2009)  Spill Contingency Plan  (Olispiand Concorneated Nation 2009)  Spill Contingency Plan  (Olispiand Aginet March 2009)	Incorporated into EPP Incorporated into EPP and Spill Contingency Plan Incorporated into EPP Incorporated into EPP Incorporated into EPP Incorporated into EPP A risk-based Fuel Management and Control Plan has been developed and implemented. Incorporated into EPP Incorporated into EPP
19. The Permittee shall report all splits immediately in accordance with instructions contained in "Split Report from NWT 1752(0593) Twenty four (24) hour split report line (867)920-8130 37 (1) (9) WILDUSE AND FINALESS HABITAT 37 (1) PRINCIPLE AND FINALESS HABITAT 38 (1) PRINCIPLE AND FINALESS HABITAT 39 (1) PRINCIPLE AND FINALESS HABITAT 40 (2) PRINCIPLE STORAGE 41 (2) PRINCIPLE STORAGE 42 (2) The Permittee shall not place any petroleum fuel storage containers within thinty-one (31) meters of the normal high water mark of any stream 42 (3) The Permittee shall not place any petroleum fuel storage containers within thinty-one (31) meters of the normal high water mark of any stream 42 (4) The Permittee shall not allow petroleum products to spread to surrounding lands or into water bodies 43 (1) (1) (M) MATTERS NOT CONSISTENT WITH THE REGULATIONS 43 (1) (1) (M) MATTERS NOT CONSISTENT WITH THE REGULATIONS 45 (2) The Permittee shall storage normal and into below the ordinary high water mark of any stream without first obtaining written permission from a Land Use Inspector 47 (1) (M) MATTERS NOT CONSISTENT WITH THE REGULATIONS 47 (1) (M) MATTERS NOT CONSISTENT WITH THE REGULATIONS 48 (2) The Permittee shall storage on hand, at all times during this land use operation, a copy of the Land Use Permit and a copy of the NIRB Screening Decision. 48 (2) The Permittee shall steep on hand, at all times during this land use operation, a copy of the Land Use Permit and a copy of the NIRB Screening Decision. 49 (2) The Permittee shall submit to the Engineer, NRCs, and the Nurawat Water Board an updated Emergency and Split Response Plan, for chemical and petroleum spills, for use during the construction and operation of the winter road. The Permittee must ensure that there is afficient split response equipment at Mine high to adequately respond to a land of the Nurawat Water Board an updated Emergency and Split Response Plan, for chemical and petroleum spills, for use during the construction and operation of the winter road. The	(Kriight Présold Ref. No. NB102-00181/10-8, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  NIA  Written notification  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  NIA  NIA  NIA  NIA  Spill Contingency Plan  (Glidiplasi & Environmental, March 2008)  Spill Contingency Plan  (Estimated, dated March 2010)  See above	Incorporated into EPP Incorporated into EPP and Spill Contingency Plan Incorporated into EPP  A risk-based Fuel Management and Control Plan has been developed and implemented. Incorporated into EPP Copies are on site  Complete  Complete
19. The Permittee shall report all splits immediately in accordance with instructions contained in "Split Report from NWT 1752(0593) Twenty four (24) hour split report line (867)920-8130 31 (1) (9) WILDER AND FOSE(PERS JANGETAT 20. The Permittee shall not deteroise appointed for the State of the Institute of	(Knight Présold Ref. No. NB102-001811/0-B, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  NIA  Written notification  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  NIA  NIA  NIA  NIA  Spill Contingency Plan  (Okichasiuk Environmental, March 2008)  Spill Contingency Plan  (Okichasiuk Environmental, March 2008)  Spill Contingency Plan  (Baffinland, dated March 2010)  See above  NIA  Comprehensive Environmental Monitoring Plan	Incorporated into EPP Incorporated into EPP and Spill Contingency Plan Incorporated into EPP A risk-based Fuel Management and Control Plan has been developed and implemented. Incorporated into EPP Copies are on site  Complete
19. The Permittee shall report all spills immediately in accordance with instructions contained in "Spill Report" form NWT 1752(0593) Twenty four (24) hour spill report line (867)920-8130 37 (1) (P) WILDLIFE AND FISHERIES HABITAT 23. The Permittee shall not debroate exploitions within fifteen (15) meters of an body of water which is not completely finozen to the bottom.  23. The Permittee shall not place any petroleum fuel storage containers within thinly one (31) meters of an own quantity of all petroleum fuel candes within the (10) days after the establishment 23. The Permittee shall not place any petroleum fuel storage containers within thinly one (31) meters of the normal high water mark of any stream 24. The Permittee shall not not allow petroleum fuel storage containers within thinly one (31) meters of the normal high water mark of any stream 25. The Permittee shall control and solicy petroleum fuel storage containers within thinly one (31) meters of the normal high water mark of any stream 26. The Permittee shall control and object and the stationary fuel containers where any one container has a capacity exceeding 4,000 litres.  31 (1) (8) MATTERS NOT CONSISTENT WITH THE REGULATIONS 26. The Permittee shall like por hand, at all times during this land use operation, a copy of the Land Use Permit and a copy of the NIRB Screening Decision.  27. The Permittee shall submit to the Engineer, NIRB, and the Nurawat Water Board an updated Emergency and Spill Response Plan, for chemical and petroleum spills, for use during the construction and operation of the winter road. The Permittee must ensure that there is sufficient spill response equipment at Milne hiele to adequately respond to a fuel spill of, at a minimum, 9,500 L.  28. The Permittee shall submit to the Engineer, NIRB, and the Nurawat Water Board an updated Emergency and Spill Response Plan, for chemical and petroleum spills, for use during the construction and operation of the winter road. The Permittee must ensure that there is sufficient spill respons	(Kriight Présold Ref. No. NB102-00181/10-8, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  NIA  Written rotification  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  Spill Contingency Plan  (Diskipatalis Environmental, March 2009)  Spill Contingency Plan  (Baffmand, dated March 2009)  (Baffmand, dated March 2009)  (Baffmand, dated March 2009)  (Baffmand, dated March 2009)  (Camilland, dated March 2009)  NIA  Comprehensive Environmental Monitoring Plan  (Kriight Présold Ref. No. N8102-0181470-3, Rev. 1, dated March 31, 2008)  (Kriight Présold Ref. No. N8102-0181470-3, Rev. 1, dated March 31, 2008)	Incorporated into EPP Incorporated into EPP and Spill Contingency Plan Incorporated into EPP  A risk-based Fuel Management and Control Plan has been developed and implemented. Incorporated into EPP Copies are on site  Complete  Complete
19. The Permittee shall report all spills immediately in accordance with instructions contained in "Spill Report from NVT 1752(0593) Twenty four (24) hour spill report line (867)920-8130 371 (1) (9) MULTIPE AND FISHERS SHABITAT 20. The Permittee shall not acknown as prohibited if carbon monitoring indicates presence of carbon within 1 and of the instruction of the shall produce of the	(Kriight Présold Ref. No. NB102-00181/10-8, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  NIA  Written notification  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  NIA  NIA  NIA  Spill Contingency Plan (Okicipala) & Environmental, March 2008) (Baffinland, dated March 2009) (Baffinland, dated March 2010) (Baffinland, dated March 2010) See above  NIA  Comprehensive Environmental Monitoring Plan (Knicht Présold Ref. No. NB102-00181/10-3, Rev. 1, dated March 31, 2008)	hoosponed into EPP hoosponed into EPP and Spill Contingency Plan hocoporated into EPP nocoporated into EPP hocoporated into EPP NA NA hocoporated into EPP A risk-based Fuel Managament and Control Plan has been developed and implemental hocoporated into EPP Copies are on site  Complete  Complete N/A
19. The Permittee shall report all spills immediately in accordance with instructions contained in "Spill Report" form NWT 1752(05/93) Twenty four (24) hour spill report line (867)920-8130 37 (1) (P) WILDLIFE AND PISHERES NABITAT 20. The Permittee shall not deliverable explicatives within fifteen (15) meters of an body of water which is not completely frozen to the bottom.  37 (1) (R) PETROLEUM INUEL STORAGE 21. The Permittee shall prote the shall report within the shall report wit	(Kriight Présold Ref. No. NB102-00181/10-8, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  NIA  Written rotification  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  Spill Contingency Plan  (Diskipatalis Environmental, March 2009)  Spill Contingency Plan  (Baffmand, dated March 2009)  (Baffmand, dated March 2009)  (Baffmand, dated March 2009)  (Baffmand, dated March 2009)  (Camilland, dated March 2009)  NIA  Comprehensive Environmental Monitoring Plan  (Kriight Présold Ref. No. N8102-0181470-3, Rev. 1, dated March 31, 2008)  (Kriight Présold Ref. No. N8102-0181470-3, Rev. 1, dated March 31, 2008)	Incorporated into EPP Incorporated into EPP and Spill Contingency Plan Incorporated into EPP Incorporated into EPP Incorporated into EPP  NA  NA  Incorporated into EPP A risk-based Fuel Management and Control Plan has been developed and implemented. Incorporated into EPP Coples are on site  Complete  Complete  NA
19. The Permittee shall report all spills immediately in accordance with instructions contained in "Spill Report" form NWT 1752(05/93) Twenty four (24) hour spill report line (867)920-8130 37 (1) (P) WILDLIFE AND FISHERIES HABITAT 20. The Permittee shall not advance supposes within fifteen (15) meters of any body of water which is not completely frozen to the bottom.  37 (1) (R) PETROLEUM INCL. STORAGE 22. The Permittee shall not place any petroleum products to spread to surrounding lands or into water bodies 23. The Permittee shall not place any petroleum products to spread to surrounding lands or into water bodies 24. The Permittee shall not allow petroleum products to spread to surrounding lands or into water bodies 25. The Permittee shall construct a dyke around each stationary fuel containers where any one containers where any one container has a capacity exceeding 4,000 litres.  37 (1) (M) MATTERS NOT CONSISTENT WITH THE REGULATIONS 26. The Permittee shall loor shall keep on hand, at all times during this land use operation, a copy of the Land Use Permit and a copy of the NiRB Screening Decision.  26. The Permittee shall be produced any petroleum products to spread to surrounding lands or into water bodies 37 (1) (M) MATTERS NOT CONSISTENT WITH THE REGULATIONS 38 (The Permittee shall be shall not enough any material from body the ordinary high water mark of any stream without first obtaining written permission from a Land Use Inspector 37. The Permittee shall all storage on any attent at from body the ordinary high water mark of any stream without first obtaining written permission from a Land Use Inspector 39. The Permittee shall all storage on any attent at from body the ordinary high water mark of any stream without first obtaining written permission from a Land Use Inspector 39. The Permittee shall all shorts of significant spill response equipment at Milne Intel to adequately respond to a supplied to adequately respond to a supplied to adequately respond to a supplied to adequately respond to a suppl	(Knight Présold Ref. No. NB102-001811/0-8, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  NIA  Written notification  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  NIA  Spill Contingency Plan  (Ghichaels Environmental, March 2008)  (Baffinland, dated March 2009)  (Baffinland, dated March 2009)  (Baffinland, dated March 2009)  (Baffinland, dated March 2009)  (Raffinland, dated March 2010)  See above  NIA  Comprehensive Environmental Monitoring Plan  (Knight Présold Ref. No. N810:2-00181/10-3, Rev. 1, dated March 31, 2008)  (Baffinland, dated March 2011)  (Baffinland, dated March 2011)	Incorporated into EPP And Spill Contingency Plan Incorporated into EPP A risk-based Fuel Management and Control Plan has been developed and implemented. Incorporated into EPP Copies are on site  Complete  Complete  NA  Complete
19. The Permittee shall report all spills immediately in accordance with instructions contained in "Spill Report from NWT 1752(0593) Twenty four (24) hour spill report line (867)820-8130 37 (1) (9) WINDERS AND FINESPES MARITAT 20. The Permittee shall in distorate explorates within fifteen (15) meters of any body of water which is not completely fromt to the bottom. 21. Autorat takes of the shall authorize are prohibited of carbon monitoring indicates presence of carbon, within 14 and the sarrings and/or helipads. 22. The Permittee shall not place any periodeum first storage containers within thirty-one of 31 meters of the normal high water mark of any stream 22. The Permittee shall not place any periodeum products to spread to surrounding lands or in 15 wester bodies. 23. The Permittee shall construct a dybe around each stationary fuel container or group of stationary fuel containers where any one container has a capacity exceeding 4,000 litres. 24. The Permittee shall construct a dybe around each stationary fuel container or group of stationary state containers where any one container has a capacity exceeding 4,000 litres. 25. The Permittee shall construct a dybe around each stationary fuel container or group of stationary state containers where any one container has a capacity exceeding 4,000 litres. 26. The Permittee shall control of remove any material from below the ordinary high water mark of any stream without first obtaining written permission from a Land Use inspector 27. The Permittee shall skep on hand, at all times during this land use operation, a copy of the Land Use Permit and a copy of the NiRB Screening Decision. 28. The Permittee shall skep on hand, at all times during this land use operation, a copy of the Land Use Permit and a copy of the NiRB Screening Decision. 29. The Permittee shall skep on hand, at all times during this land use operation, and operation of the writer road. The Permittee water the stationary trains and the stationary trains and the stationary trains and the stationary tr	(Knight Présold Ref. No. NB102-00181/10-B, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  NIA  NIA  NIA  Written nostification  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  NIA  NIA  NIA  NIA  NIA  Spill Contingency Plan  (Quistpinatk Environmental March 2009)  Spill Contingency Plan  (Quistpinatk Environmental March 2009)  ((Baffiriand, dated March 2009)  ((Baffiriand, dated March 2010)  See above  NIA  Comprehensive Environmental Monitoring Plan  (Kright Présold Ref. No. N8102-00181/11-3, Rev. 1, dated March 31, 2008)  ((Baffiriand, dated March 2011)  2007 Annual Report to the Nunavut Impact Review Board  (Kright Piesold Ref. No. 18102-00181/11-1, Rev. 0, dated January 25, 2008)  2008 Annual Report to the Nunavut Impact Review Board  (Kright Piesold Ref. No. 18102-00181/11-1, Rev. 0, dated January 25, 2008)  2009 Annual Report to the Nunavut Impact Review Board  (Kathinand, 2001)	Incorporated into EPP Incorporated into EPP and Spill Contingency Plan Incorporated into EPP Incorporated into EPP Incorporated into EPP Incorporated into EPP  A risk-based Fuel Management and Control Plan has been developed and implemented. Incorporated into EPP Coples are on site  Complete
19. The Permittee shall report all apills immediately in accordance with instructions contained in "Spill Report from NNT 175(20593) Twenty four (24) hour spill report ine (867)620-8130  37 (17) M MURICA MOR PSINERS MINITAT  20. The Permittee shall not dispose any portioned for the commonity indications presence of acribos within 1 fam of the airstrains and/or helpads.  37 (17) M PETROLEIM FUEL STORAGE  22. The Permittee shall not place any portioned make a proposed the incidence of the common ling in water mank of any stream  23. The Permittee shall not place any portioned make a proposed to surprise and some shall be a proposed to a surprise of acribos within 1 fam of the airstrains and/or helpads.  37 (17) M MATTERS NOT CONSISTENT WITH THE REGULATIONS  28. The Permittee shall not allow performance of acribos within the proposed of the common ling water mank of any stream without first obtaining written permitsion from a Land Use Inspector  27. The Permittee shall not allow performance of the common ling water mank of any stream without first obtaining written permission from a Land Use Inspector  28. The Permittee shall an other of the common ling water mank of any stream without first obtaining written permission from a Land Use Inspector  27. The Permittee shall submit to the Engineer, NRB, and the Nuneaut Water brank of any stream without first obtaining written permission from a Land Use Inspector  28. The Permittee shall submit to the Engineer, NRB, and the Nuneaut Water brank of any stream without first obtaining written permission from a Land Use Inspector  29. The Permittee shall submit to the Engineer, NRB, and the Nuneaut Water Broad of use operation, a copy of the NRB Screening Decision.  29. The Permittee shall submit to the Engineer, NRB, and the Nuneaut Water Broad of use operation, a copy of the NRB Screening Decision.  29. The Permittee shall submit to the Engineer, NRB, and the Nuneaut Water Broad of use of the propert of the winter road. The Permittee must ensure that there is sufficient sp	(Knight Présold Ref. No. NB102-00181/10-8, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  NIA  NIA  Written notification  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  NIA  Spill Contingency Plan  (Okichasiuk Environmental, March 2008)  Spill Contingency Plan  (Okichasiuk Environmental, March 2010)  (Baffinland, dated March 2010)  (Baffinland, dated March 2010)  (Baffinland, dated March 2010)  (Baffinland, dated March 2010)  2007 Annual Report to the Nunavut Impact Review Board  (Knight Piesold Ref. No. No 102-00161/11-1, Rev. 0, dated January 25, 2008)  2008 Annual Report to the Nunavut Impact Review Board  (Knight Piesold Ref. No. No 102-00161/11-1, Rev. 0, dated January 25, 2008)	Incorporated into EPP Incorporated into EPP and Spill Contingency Plan Incorporated into EPP Incorporated into EPP Incorporated into EPP Incorporated into EPP  NA Incorporated into EPP A risk-based Fuel Management and Control Plan has been developed and implemented. Incorporated into EPP Copies are on site  Complete  Complete  Complete  Complete  Complete  Complete  Complete
19. The Permittee shall report all spills immediately in accordance with instructions contained in Spill Report from NNT 1752(059) Twenty four (24) hour spill report line (867)620-8150  31 (1) (7) (MOLECA AND TEXTREE SANDIATY  20. The Permittee shall and standards are spin-based from the filter (15) meters of any body of water which is not considered to bottom.  31 (1) (A) (MOLECA AND TEXTREE SANDIAGE)  22. The Permittee shall active and standards are provided in the standard contained with the filter of the airtispy and the filter of the airtispy and the filter of the airtispy and the filter of the standard of the filter of the airtispy and the filter of the	(Kriight Présold Ref. No. NB102-00181/10-8, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  NIA  NIA  Written notification  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  Spill Contingency Plan  (Discipative Environmental March 2009)  Spill Contingency Plan  (Discipative Environmental March 2009)  Spill Contingency Plan  (Baffinland, dasked March 2009)  (Baffinland, dasked March 2009)  (Baffinland, dasked March 2010)  See Boove  NIA  Comprehensive Environmental Monitoring Plan  (Kriight Présold Ref. No. N9102-00181/110-3, Rev. 1, dated March 31, 2008)  (Baffinland, dasked March 2010)  (Baffinland, dasked March 2010)  (Baffinland, dasked March 2011)	Incorporated into EPP and Spill Contingency Plan Incorporated into EPP and Spill Contingency Plan Incorporated into EPP Incorporated into EPP Incorporated into EPP Incorporated into EPP A risk-based Fuel Management and Control Plan has been developed and implemented. Incorporated into EPP Copies are on site  Complete
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19. The Permittee shall report all apills immediately in accordance with instructions contained in "Spill Report" from NVT 175(20593) Twenty four (24) hour spill report line (867)200-9130  17 (1) 00 NVELTAM OTSPERES MAN TEACHERS (1887) Instructions of the spill of	(Knight Présold Ref. No. NB102-00181/10-8, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  NIA  Written notification  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  Spill Contingency Plan  (Osicipatals Environmental March 2009)  Spill Contingency Plan  (Batfiniand, dated March 2009)  (Batfiniand, dated March 2009)  (Batfiniand, dated March 2009)  (See above  NIA  Comprehensive Environmental Monitoring Plan  (Knight Présold Ref. No. NS102-00181/10-3, Rev. 1, dated March 31, 2008)  (Batfiniand, dated March 2011)  2007 Annual Report to the Nunavut Impact Review Board  (Knight Présold Ref. No. NS102-00181/11-1, Rev. 0, dated January 25, 2008)  2008 Annual Report to the Nunavut Impact Review Board  (Batfiniand, 2009)  2009 Annual Report to the Nunavut Impact Review Board  (Batfiniand, 2011)	Incorporated into EPP and Spill Contingency Plan Incorporated into EPP and Spill Contingency Plan Incorporated into EPP A risk-based Fuel Management and Control Plan has been developed and Implemented. Incorporated into EPP Copies are on alte Complete Compl
19. The Permittee shall report all signitis immediately has accordance with instructions contained in "Spill Report from NWT 175(0505)" twenty four (A4) hour spill report line (857/600-4130)  20. The Permittee shall not dischais explained as facilities and including any production functions presented of carbon, within 11 and 11 a	(Knight Présold Ref. No. NB102-00181/10-B, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  NIA  NIA  Written nostification  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  Spill Contingency Plan  (Quicipatals Konromental March 2009)  (Balfinland, dated March 2009)  (Balfinland, dated March 2010)  See above  NIA  Comprehensive Environmental Monitoring Plan  (Knight Présold Ref. No. NS102-00181/103, Rev. 1, dated March 31, 2008)  (Balfinland, dated March 2011)  See above  10  Comprehensive Environmental Monitoring Plan  (Knight Présold Ref. No. NS102-00181/11-1, Rev. C. dated January 12, 2008)  (Balfinland, dated March 2010)  (Balfinland, dated March 2010)  2007 Annual Report to the Nunavut Impact Review Board  (Knight Présold Ref. No. NS102-00181/11-1, Rev. C. dated January 12, 2008)  2008 Annual Report to the Nunavut Impact Review Board  (Gaffinland, 2010)  2009 Annual Report to the Nunavut Impact Review Board  (Gaffinland, 2010)  2010 Annual Report to the Nunavut Impact Review Board  (Gaffinland, 2010)	Incorporated into EPP and Spill Contingency Plan Incorporated into EPP and Spill Contingency Plan Incorporated into EPP A risk-based Fuel Management and Control Plan has been developed and implemented. Incorporated into EPP Copies are on site  Complete  Shipping contractors operated in compliance with applicable
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19. The Permittee shall report all split immediately in accordance with extended in "Split Report from 19" 175(10(40)) Twenty to Act (shown split report line (89)760-810)  37 (17 (19 NEADER SPEAR SP	(Knight Présold Ref. No. NB102-00181/10-B, Rev. 1, dated March 31, 2008)  NIA  NIA  NIA  NIA  NIA  NIA  Written nostification  NIA  Controls and inspections to prevent potential impacts from fuel leaks in active operations.  NIA  NIA  Spill Contingency Plan  (Quicipatals Konromental March 2009)  (Balfinland, dated March 2009)  (Balfinland, dated March 2010)  See above  NIA  Comprehensive Environmental Monitoring Plan  (Knight Présold Ref. No. NS102-00181/103, Rev. 1, dated March 31, 2008)  (Balfinland, dated March 2011)  See above  10  Comprehensive Environmental Monitoring Plan  (Knight Présold Ref. No. NS102-00181/11-1, Rev. C. dated January 12, 2008)  (Balfinland, dated March 2010)  (Balfinland, dated March 2010)  2007 Annual Report to the Nunavut Impact Review Board  (Knight Présold Ref. No. NS102-00181/11-1, Rev. C. dated January 12, 2008)  2008 Annual Report to the Nunavut Impact Review Board  (Gaffinland, 2010)  2009 Annual Report to the Nunavut Impact Review Board  (Gaffinland, 2010)  2010 Annual Report to the Nunavut Impact Review Board  (Gaffinland, 2010)	Incorporated into EPP  A risk-based Fuel Management and Control Ptan has been developed and implemented. Incorporated into EPP Copies are on site  Complete  Complete  Complete  Complete  Complete  Complete  Complete  Shipping contractors operated in compliance with applicable legislation Shipping contractors operated in compliance with applicable legislation Information  Information  Information  Information
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#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

# COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN STATUS OF COMPLIANCE WITH CONDITIONS, APPROVALS AND COMMITMENTS

STATUS OF COMPLIANCE WITH CONDITIONS, APPROVALS AND COMMITMENTS		
ITEM 2. The Licensee shall submit to the Board for approval within ninety (90) days of the effective date of the amended licence, an assessment of current restoration liability using the most recent version of RECLAIM or other equivalent method as approved by the Board	DELIVERABLE	STATUS
	Mary River Project Bulk Sampling Program – RECLAIM Model Results (Knight Plesold Ref. No. NB07.0088, dated October 24, 2007) Abandoment and Reclamation Plan (Knight Plesold Ref. No. NB102-001816-7, Rev. 2, dated March 31, 2008) 2009 Abandoment & Reclamation Plan (Knight Plesold Ref. No. NB102-101816-7, Rev. 2, dated March 32, 2009) 2009 Abandoment & Reclamation Plan (Knight Plesold Ref. No. NB102-10181-1, Rev. 0, dated March 26, 2009) 2010 Abandoment & Reclamation Plan (Baffinland dated March 2011) 2011 Abandomient & Reclamation Plan (Baffinland dated March 2011)	Complete
3. The Licensee shall furnish and maintain security with the Minister as required by the Board in a form and amount acceptable to the Minister		
	Security held by the Qikiqtani Inuit Association	Complete
4. The security deposit shall be maintained until such time as the Minister is satisfied that the Licensee has complied with all provisions of the approved Abandonment and Restoration Plan. This clause shall survive the expiry of this Licence or renewals thereof.  5. The Licensee shall file an Annual Report on the appurtenant undertaking with the Board no later than March 31st of the year following the calendar year being reported which shall contain the following information:	N/A	N/A
(i) the monthly and annual quantition in subic meteos of all freshwater obtained from Comp Leise at Mentoring Station MRY 1, Phillips Creek at Monitoring Station MRY 2 and km00 Lake at Monitoring Station MRY 2.  AS PER AMENDMENT NO. 2 (FEBRUARY 29, 2009) HAS BEEN AMENDED TO READ:  A SPER AMENDMENT NO. 2 (FEBRUARY 29, 2009) HAS BEEN AMENDED TO READ:		
(i) the monthly and annual quantities in cubic metres of all freshwater obtained from Camp Lake at Monitoring Station MRY-1, Phillips Creek at Monitoring Station MRY-2, km99 Lake at Monitoring Station MRY-3 and the additional freshwater sources identified for Camp use under Part C, le		
(a) the monthly and annual quantities in cubic metres of all freshwater obtained for the purposes of drilling and other associated uses:  (ii) the monthly and annual quantities in cubic metres of treated Sewage effluent discharged at Monitoring Station MRY-4, May River Camp WWTF and at Monitoring Station MRY-5, Milne Inlet Camp WWTF along with any waters discharged from the respective PWSP's:  (iv) the monthly and annual quantities in cubic metres of Studge removed from the Waste Water Treatment Facilities at May River Camp and Milne Inlet Camp and details on the storage and/or disposal;  (v) A summary, including photographic records before, during and after construction activities; any modifications and/or major maintenance work carried out on the Water Supply and the wastewater Treatment Facilities, including all associated structures, and an outline of any work anticipated for the next year;	2008 Annual Report to the Nunavut Water Board (Billfinland, 2009)	
(vi) The geochemical analysis of drill cores as per Part F, Item 3; (vii) Detailed discussion on the performance, installation, and evaluation, including the use of photographic record, of the primary and secondary containment functions used in fuel storage to safeguard impacts to freshwaters;	2009 Annual Report to the Nunavut Water Board (Baffinland, 2010) 2010 Annual Report to the Nunavut Water Board (Baffinland, 2011)	Pending; due March 31, 2011
(viii) A list of unauthorized discharges and a summary of follow-up actions taken; (vi) A brief description of follow-up action laten to address concerns presented within inspection and compliance reports prepared by the Inspector; (x) Updates in the form of an addendum or revisions to the Abandonment and Restoration Plan, Emergency Spill Response Plan, Waste Rock and Ore Storage Plan, QA/QC, Landfill Operations and Maintenance Plan, and Landfarm Plan		
(xi) A description of all progressive and or final reclamation work undertaken, including drill sites, presented with photographic records of site conditions before, during and after completion of operations;  (xii) An updated estimate of the current restoration liability required under Part B, Item 2, based upon the results of restoration research, project development monitoring, and any changes or modifications to the Project;		
(xiii) Tabular summaries of all data generated under the Monitoring Program, Part I: (xiii) A summary of public consultation/participation, describing consultation with local organizations and residents of the nearby communities, if any were conducted;		
(xx) A summary of any specific studies or reports requested by the Board, and a brief description of any future studies planned or proposed; and (xxi) Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.		
6. The Licensee shall submit to the Board a Site Water Management Plan, within ninety (90) days following the issuance of the licence, for Board approval, that includes but is not limited to the following:  (i) A description of the quantity and direction of surface water flow from the road, over the surrounding landscape, and the overall site, along with topographic maps that effectively delineate the movement of waters on site;		
(ii) A detailed description of the location and capacity of water retention areas that would allow for the management of surface water runoff from the road and other Infrastructure;  (iii) A detailed description of the sampling locations along the access road and the overall site where the water procured would provide the most representative analytical results, as determined by an appropriately qualified Engineer through a clear disclaimer outlining.		
any limitations to judgment made by the Engineer, of surface water quality draining from the road surface and any other infrastructure, and  (iv) Any further information that a qualified Engineer believes to be pertinent to describe the movement and quality of surface water draining from the access road and any other infrastructure.	Site Water Management Plan	
7. The Licensee shall submit to the Board for approval, within ninety (90) days of the effective date this license, a revised Site Water Management Plan referred to in Part 8, Item 6 to reflect changes in operation and infrastructure as a result of the amendment application for the Bulk Sampling Project. The revised Plan shall consider water management associated with all infrastructure components of the undertaking, including, but not be limited to:	(Knight Piésold Ref. No. NB102-00181/10-5, Rev. 1, dated March 31, 2008)  Site Water Management Plan (Baffinland, dated March 31, 2009)	Complete
(i) Bulk Sample Open Pit operations; (ii) Weathered cre/waste stroage piles;	(Baffinland, dated March 31,2010)	
(iii) Temporary ore storage at Mary River and Milne thiet; (iv) Bulk fuel storage areas; (v) Ore processing area;		
(vi) Access roads; (vii) All weather road; and (viii) Associated construction material quarry operations		
If the Board does not approve the Plan referred to in Part B, Item 7, the Licensee shall revise the Plan and resubmit to the Board for approval within two (2) months of receiving notification of the Board's decision     The Licensee shall implement the Plans specified in this Part as and when approved by the Board.	N/A N/A	Approval pending Ongoing
10. The Licensee shall notify the NWB of any changes in operating plans or conditions associated with this project at least thirty (30) days prior to any such change.  11. The Licensee shall install and maintain flow meters or other such devices, or implement suitable methods required for the measuring of water and waste volumes, to be operated and maintained to the satisfaction of an inspector.	N/A N/A	Ongoing Ongoing
12. The Licensee shall post signs in the appropriate areas to identify the location of Monitoring Stations designated under Part I. All signs shall be located and maintained to the satisfaction of an inspector  13. The Licensee shall ensure a copy of this Licence is maintained at the site of operations at all times. Any communication with respect to this Licence shall be made in writing to the attention of:	N/A	Not yet installed.
(i) Manager of Licensing: Nunewt Water Board		
P.O. Sox 119 Gjoa Haven, NU X0B 1,0 Telephone: (67) 300-6338		
Fax: (887) 360-3699 (ii) Inspector Cordact Water Resources Officer, INAC Nunand District, Nunanut Region	N/A	Compliant
No. Inch. U. Sai D. L., No. Inch. V. Sai D. L., No. In		
Fax: (867) 979-6445  14. The Licensee shall submit one paper copy and one electronic copy of all reports, studies, and plans to the Board. Reports or studies submitted to the Board by the Licensee shall include a detailed executive summary in fruktitut.	N/A	N/A
<ol> <li>The Licensee is responsible to ensure that any documents or correspondence submitted by the Licensee to the Board have been received and acknowledged by the Manager of Licensing.</li> <li>This Licence is not assignable except as provided in Section 44 of the Act.</li> </ol>	N/A N/A	N/A N/A
17. The equity or cancellation of this Licence does not relieve the holder form any obligations imposed by the Licence as per Section 46 of the Act.  PART C. COMPUTIONS APPL VIND TO WATER USE  1. The Licensese shall shall not use the form of the computing of the Computing Station MRY 2 and Km 09 Lake at Monitoring Station MRY 3. Tetal water use for domestic purposes shall not exceed sidely (60) and the computing Station MRY 2 and Km 09 Lake at Monitoring Station MRY 3. Tetal water use for domestic purposes shall not exceed sidely (60) and the composition of the computing station of the computing station MRY 2 and Km 09 Lake at Monitoring Station MRY 3. Tetal water use for domestic purposes shall not exceed sidely (60) and the composition of the computing station of the composition of the computing station of the computing station of the computing station of the composition of the computing station of the com	N/A	N/A
AS PER AMENDMENT NO. 2 (FEBRUARY 29, 2009) HAS BEEN AMENDED TO READ:	N/A	October 18, 2007 NWB letter approved additional potable water sources for the Milne Inlet Camp
1. The Licensee shall obtain water for domestic purposes from the following locations, or as otherwise approved by the Board:		
(i) May River Camp; Camp Lake at Monitoring Station MRY-1; (ii) Millor lelfs Camp: Philor Creek at Monitoring Station MRY-2;		
(ii) Mine Intel Camp. Philips Creek at Monitoring Station MRY-2; (iii) Km 99 Leke at Monitoring Station MRY-3; (iii) Km 99 Leke at Monitoring Station MRY-3; (iv) An alternative water source for Mine Camp at Km 32 Leke; (iv) Apposit 4 Camp. Proposed under the Amendment No.1 application and to be identified prior to use; (iv) Deposit 4 Camp. Proposed under the Amendment No.1 application and to be identified prior to use;	N/A	Ongoing
(ii) Mine Intel Came, Philips Creek at Monitoring Station MRY-2; (iii) Km 90 Lesk at Monitoring Station MRY-3; (iii) Km 90 Lesk at Monitoring Station MRY-3; (iv) An alternative water source for Mine Came at Km 32 Lesk; (iv) An alternative water source for Mine Came at Km 32 Lesk; (iv) An alternative water source for Mine Came at Km 32 Lesk; (iv) An alternative water source for Mine Came at Km 32 Lesk; (iv) As alternative water source for Mine Came at Km 32 Lesk; (iv) Station Philips Came at Monitoring	N/A	Ongoing
(ii) Mine Intel Camp. Philips Creek at Monitoring Station MRY-2; (iii) Km 96 Lake at Monitoring Station MRY-3; (iii) Km 96 Lake at Monitoring Station MRY-3; (iv) An alternative water source for Mine Camp at Km 32 Lake; (iv) Appoint 4 Camp; Proposed under the Amendment No. 1 application and to be identified prior to use; (iv) Radi Camp; an adjacent unnamed lake, and (ivi) Steensly blue Camp; an unnamed lake near camp or the alternate source for freshwater identified in the Application, (ivi) Steensly blue Camp; an unnamed lake near camp or the alternate source for freshwater identified in the Application, (ivi) Steensly blue Camp; an unnamed lake near camp or the alternate source for freshwater identified in the Application, (ivi) Steensly blue Camp; an unnamed lake near camp or the alternate source for freshwater identified in the Application, (ivi) Steensly blue Camp; an unnamed lake near camp or the alternate source for freshwater identified in the Application, (ivi) Steensly blue Camp; proposed under a lake near camp or the alternate source for freshwater identified in the Application, (ivi) Steensly blue Camp; proposed under a lake near camp or the alternate source for freshwater identified in the Application, (ivi) Steensly blue Camp; proposed under dish great for the purposes of drilling and other associated uses, shall be obtained from sources adjacent to drill targets, or as otherwise approved by the Steensly St	N/A	N/A
(ii) Mine felial Came, Philips Creek at Monitoring Station MRY-2; (iii) Kin 90 Lise at Monitoring Station MRY-3; (iii) Kin 90 Lise at Monitoring Station MRY-3; (iv) An alternative water source for Mine Came at Kin 32 Lisks; (iv) An alternative water source for Mine Came at Kin 32 Lisks; (iv) An alternative water source for Mine Came at Kin 32 Lisks; (iv) An alternative water source for Mine Came at Kin 32 Lisks; (iv) An alternative water source for Mine Came at Kin 32 Lisks; (iv) Station and Station at Kin 32 Lisks; (iv) Station and Station at Kin 32 Lisks; (iv) Station at Kin 32 Lisks; (iv) Station at Kin 32 Lisks; (iv) Station and Station at Kin 32 Lisks; (iv) Station at Kin 32 Lisks;	N/A N/A	
(ii) Mine feld Came, Philips Creek at Monitoring Station MRY-2. (iii) Kin 90 Let at Monitoring Station MRY-3. (iii) Station Let at Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station and Station Let a Monitoring Station MRY-3. (iv) Station Let a Monitoring Station MRY-3. (iii) Real Camp, Proposed Under the Application, (iii) Real Camp, Proposed Violet Camp, Propos	N/A N/A N/A N/A N/A	N/A Incorporated into EPP Incorporated into EPP Incorporated into EPP Incorporated into EPP
(ii) Mine Initial Came, Philips Creek at Monitoring Station MRY-2; (iii) Kin 90 Lake at Monitoring Station MRY-3; (iv) An atternative water source for Mine Came at Kin 52 Lake; (iv) An atternative water source for Mine Came at Kin 52 Lake; (iv) Depoint 4 Camp, Prospect under the Americanter No.1 application and to be identified prior to use; (iv) Bac Camp, an adjacent unanamed lake, and a supplication and to be identified prior to use; (iv) Depoint 4 Camp, Prospect under the Americanter No.1 application and to be identified prior to use; (iv) Bac Camp, an adjacent unanamed lake, and a supplication and to be identified prior to use; (iv) Bac Camp, an adjacent unanamed lake, and a supplication of the Internate source for festwater identified in the Application.  Total water use for domestic purposes from all sources shall not exceed a combined total of sixty (60) cubic metres per day. Water for the purposes of drilling and other associated uses, shall be obtained from sources adjacent to drill targets, or as otherwise approved by the Board and is not to exceed four hundred and fifty five (455) cubic metres per day.  2. The Licensee shall maintain the Water Supply Facilities to the satisfaction of the Inspector.  3. Streams cannot be used as a water source unless admirised and approved by the Board.  4. If the Licensee requires water in sufficient volume that the source water body may be drawn down the Licensee shall, at least 30 days prior to commencement of use of water, submit to the Board for approval the following: volume required, hydrological overview of the water body, details of impacts, and proposed miligation measures.  5. The Licensee shall equip all water intake boses with a screen of an appropriate mesh size to ensure that fish are not entrained and shall withdraw water at a rate such that fish do not become impiringed on the screen.  6. The Licensee shall equip all water intake house the ordinary light water mark of any vater body unless authorized.  7. The Licensee shall not remove any material fro	NIA NIA NIA NIA	NIA Incorporated into EPP Incorporated into EPP Incorporated into EPP Incorporated into EPP
(ii) Mine feld Came, Philips Creek at Monitoring Station MRY-2. (iii) Km 90 Leads at Monitoring Station MRY-3. (iii) Km 90 Leads at Monitoring Station MRY-3. (iv) An alternative water source for Mine Camp at Km 32 Leads. (iv) An alternative water source for Mine Camp at Km 32 Leads. (iv) An alternative water source for Mine Camp at Km 32 Leads. (iv) An alternative water source for Mine Camp at Km 32 Leads. (iv) State Camp, an unmaned lake near camp or the alternate source for fetwater identified in the Application, (iv) Steensby hist Camp, an unmaned lake near camp or the alternate source for fetwater identified in the Application, (iv) Steensby hist Camp, an unmaned lake near camp or the alternate source for fetwater identified in the Application, (iv) Steensby hist Camp, an unmaned lake near camp or the alternate source for fetwater identified in the Application, (iv) Steensby hist Camp, an unmaned lake near camp or the alternate source for fetwater identified in the Application, (iv) Steensby hist Camp, an unmaned lake near camp or the alternate source for fetwater identified in the Application, (iv) Steensby hist Camp, an unmaned lake near camp or the alternate source for fetwater identified in the Application, (iii) Steensby hist Camp, an unmaned lake near camp or the alternate source for fetwater in the Application, (iv) Steensby hist Camp, an unmaned lake near camp or the alternate source for fetwater in the Application, (iii) Steensby hist Camp, an unmaned lake near camp or the alternate source seal or decrease shall be obtained from sources adjacent to drill targets, or as otherwise approach by the Board and in the Application, (iii) Steensby historia, and in the Application, and in the Applicati	N/A N/A N/A N/A N/A N/A	NIA Incorporated into EPP
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(ii) Kim 96 Leas at Morbitory Station MRY-2; (iii) Kim 96 Leas at Morbitory Station MRY-3; (iii) Kim 96 Leas at Morbitory Station MRY-3; (iii) Kim 96 Leas at Morbitory Station MRY-3; (iii) An alternative water source for Milma Carray at Kim 32 Leak; (iv) An alternative water source for Milma Carray at Kim 32 Leak; (iv) As alternative water source for Milma Carray at Kim 32 Leak; (iv) As alternative water source for Milma Carray at Kim 32 Leak; (iv) As alternative water source for Milma Carray at Kim 32 Leak; (iv) Steensby hist Carry, an unmaned lake near carry of the alternate source for freshwater identified in the Application, Total water user of comestic purposes form all sources shall not socied a combined total of sixty (60) cubic meres per day.  2. The Licensee shall maintain the Water Scappt Scalable of the Inspector.  3. Steenses enth and an alternative station of the Inspector.  4. The Licensee shall maintain the station station of the Inspector water body may be drawn down the Licensee shall, at least 30 days prior to commencement of use of water, submit to the Board for approval the following: volume required, hydrological overview of the water body, defails of impacts, and proposed militigation measures.  5. The Licensee shall not remove any material from below the ordinary high water mark of any water body unless authorized.  6. The Licensee shall not remove any material from below the ordinary high water mark of any water body unless authorized.  7. The Licensee shall not remove any material from below the ordinary high water mark of any water body unless authorized on the part of the Carray high and part of the carray or administration to prevent early of administration water.  PART D: CONDITIONS APPL NNG TO WASTE DISPOSAL  1. The Licensee shall cocite areas designated for waste disposal at a minimum distance of thirty (30) metres from the ordinary high water mark of any water body such that the quality, quantity or flow of water is not impaired, unless otherwise authorized by the Board.  2. Unle	N/A	NIA Incorporated into EPP Ongoing Request for controlled open burning requested in 2008. Approval received 2009. Incorporated into EPP Complete Incorporated into EPP Incorporated into EPP Incorporated into EPP
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The contract	N/A  N/A  N/A  N/A  N/A  N/A  Bulk Sampling Program - Landfill Design and Operations (Knight Piesoid Ref. No. N8102-00181/10-8, Rev. 1, dated March 31, 2008)  N/A  N/A  N/A  Letter from the Hamilet of Pond Inlet  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	NIA Incorporated into EPP Complete Incorporated into EPP Complete Incorporated into EPP
Life the control contr	N/A  N/A  N/A  N/A  N/A  N/A  Bulk Sampling Program - Landfill Design and Operations (Knight Précod Ref. No. N8102-00181/10-6, Rev. 1, dated March 31, 2008)  N/A  N/A  Letter from the Hamilet of Pond Inlet  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	NIA Incorporated into EPP Complete Incorporated into EPP Incorpora
The contract	N/A  N/A  N/A  N/A  N/A  N/A  Bulk Sampling Program - Landfill Design and Operations (Knight Précod Ref. No. N8102-00181/10-6, Rev. 1, dated March 31, 2008)  N/A  N/A  Letter from the Hamilet of Pond Inlet  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	NIA Incorporated into EPP Complete Incorporated into EPP Incorpora
Life the control contr	N/A  N/A  N/A  N/A  N/A  N/A  N/A  Bulk Sampling Program - Landfill Design and Operations (Knight Présod Ref. No. N8102-00161/10-8, Rev. 1, dated March 31, 2008)  N/A  Letter from the Hamilet of Pond Inlet  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	N/A  Incorporated into EPP Complete Incorporated into EPP Incorpor
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#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

# COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN STATUS OF COMPLIANCE WITH CONDITIONS, APPROVALS AND COMMITMENTS

STATUS OF COMPLIANCE WITH CONDITIONS, APPROVALS AND COMMITMENTS	88100	OT /
TTEM  24. The Licensee shall dispose of all Sewage generated at the Mary River Camp and the Milne Inlet Camp to the Waste Water Treatment Facilities, or as otherwise approved by the Board.	DELIVERABLE N/A	STATUS Compliant
25. The Licensee shall contain all other toilet wastes with disposal by incineration, Latrines for this use shall be located at a distance of at least thirty (30) metres above the ordinary high water mark of any water body.	N/A	Compliant
26. If the Board does not approve the Plan(s) referred to in this Plant, the Licensee shall revise this Plan(s) and resubmit it to the Board for approval within two (2) months of receiving notification of the Board's decision.	Waste Water Management Plan for Mary River and Milne Inlet Camp Sites (BH Marrin Consultants loc, Report Reference No. 06-090, dated September 15, 2007) Waste Water Management Plan (Baffinland, March 2009) (Baffinland, dated Watch 2010)	Complete
27. The Licensee shall implement the Plan(s) specified in this Part as and when approved by the Board.  PART E: CONDITIONS FOR CAMPS, ACCESS INFRASTRUCTURES AND OPERATIONS	N/A	Plans have been implemented
1. The Licensee shall not erect camps or store material on the surface of frozen streams or lakes including immediate banks except what is for immediate use. Camps shall be located such as to minimize impacts on surface drainage.	N/A	Incorporated into EPP
2. All activities shall be conducted in such a way as to minimize impacts on surface drainage and the Licensee shall immediately undertake any corrective measures in the event of any impacts on surface drainage.  2. White labe and strong receiper includes in a hidder, which like a constructed activities will be conducted in such as a surface. The impacts of the conductive measures in the event of any impacts on surface drainage.	N/A	Incorporated into EPP
3. Winter lake and stream crossings, including ice bridges, shall be constructed entirely of water, ice or snow. The Licensee should minimize disturbance by locating ice bridges at an area that requires the minimum approach grading and the shortest crossing route. Stream crossings shall be removed or the ice notched prior to spring break-up.	N/A	N/A
4. With respect to access road, pad construction or other earthworks, the deposition of debris or sediment into or other any settle body, is prohibited. These materials shall be disposed a distance of at least thirty (30) metres from the ordinary high water mark in such a fashion that they do not enter the water. The Licenses exall ensure that any chemicals, failed or wester any water body.	N/A	Incorporated into EPP
5. The Licensee shall not cut any stream bank or remove any material from below the ordinary high water mark of any water body.	N/A	Incorporated into EPP
6. The Licensee shall not do anything that will cause erosion to the banks of any body of water and shall provide necessary controls to prevent such erosion.	N/A	Incorporated into EPP
<ol> <li>Sediment and erosion control measures shall be implemented prior to and maintained during construction and operation to prevent entry of sediment into water.</li> <li>The Licensee shall undertake appropriate corrective measures to mitigate impacts on surface drainage resulting from the Licensee's operations.</li> </ol>	N/A N/A	Incorporated into EPP Incorporated into EPP
9. The Licensee shall limit any in-stream schiefly to low water periods. In-stream activity is prohibited during fish migration.  10. The Licensee shall consider serious crossings to mimitte approach greater, Approaches shall be stabilized during construction and upon completion of the project, to control runoff, erosion and subsequent siliation to any water body.	N/A N/A	Incorporated into EPP
11. Machinery is not permitted to travel up the stream bed and fording of any water body is to be kept to a minimum and limited to one area and a one-time event. Equipment used should be well cleaned and free of oil and grease and maintained free of fluid leaks.	N/A	Incorporated into EPP
The Licensee shall ensure that pollutants from machinery fording the crossings do not enter water.     The Licensee shall ensure that all fill material used during construction is from an approved source and shall be free of contaminants.	N/A N/A	Incorporated into EPP Incorporated into EPP
14. To minimize impacts on surface drainage, the Licensee shall regione all sites in such manner as to prevent rutting of the governed surface.  15. Equipment to troppe holding research subtide to located on gravel, and	N/A N/A	Incorporated into EPP
16. The Licensee shall designate an area for the deposition of excavated and stockpiled materials that is at least thirty (30) metres above the ordinary high water mark of any water body.	N/A	Incorporated into EPP
17. The Licensee shall not utilize any equipment or vehicles in the course of this undertaking unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging. Overland travel of equipment or vehicles shall cease if rutting occurs.	N/A	Incorporated into EPP
PART F: COMDITIONS APPLYING TO DRILLING OPERATIONS  1. The Licensee shall not conduct up with path spatial growth with the state of the ordinary high water mark of any water body, unless otherwise approved by the Board.	Raffinland Letter dated February 19, 2008	Incorporated into EPP
2—The Licensee shall delineate through an appropriately scaled site map, include approximate QPS coordinates, and any miligation measures in place to protect waters if filing a request to the Board to drill within thirty (20) metres of the ordinary high water mark of		
ary water bedy.  As PER AMENDMENT NO. 2 (FEBRUARY 29, 2008) HAS BEEN AMENDED TO READ:  2 Licensee may, for the purpose of geotechnical investigations as described in the application for Amendment, carry out drilling activities within thirty (30) metres of the high water mark of any water body, provided that such activities are consistent with the terms of	N/A	Incorporated into EPP
this Licence and a request has been submitted and received by the NWB, ten (10) days in advance of drilling, that includes a thorough description of the proposed activities and the following:		
(i) An appropriately scaled site map, complete with approximate GPS coordinates of planned drilling locations and the associated water bodies;	Baffinland Letter dated February 19, 2008	Incorporated into EPP
(ii) Locations of waste deposition, that are consistent with Parl F, land 4, and (iii) Migation measures that are planned to be in place, print of, using diffining and following if required to protect wasters.		
3. The Licensee shall analyze the geochemical constituents of drill cores as follows:  (i) That reflects actually and is truly representative of the drilling program for all specified that the program for the control of the program for the prog	2008 Annual Report to the Nunavut Water Board	
all constituents that may impact waters as determined, and clearly qualified, by a Geochemist registered in Nunavut; (ii) All assumptions, and any limitation to each assumption, in determining a representative sampling population reflecting actuality and the geochemical testing methods employed;	(Baffinland, 2009) 2009 Annual Report to the Nunavut Water Board (Baffinland, 2010)	Pending; due March 31, 2011
(iii) Includes all raw data and an accompanying summary table of the geochemical analysis;	(Baffinland, 2010) 2010 Annual Report to the Nunavut Water Board (Baffinland, 2011)	
(iv) Define clear conclusions on the results of the geochemical analysis; and (iv) Present the geochemical analysis in the Annual Report as required by Part 8, Item 2  4. The Licensee shall ensure that all drill waste, including water, chips, muds and salts (CaCl2) in any quantity or concentration, from land-based drilling, shall be disposed of in a properly constructed sump or an appropriate natural depression located at a distance		
4. The Licensee shall ensure that all drill waste, including water, chips, muds and salts (CaCt2) in any quantity or concentration, from land-based drilling, shall be disposed of in a properly constructed sump or an appropriate natural depression located at a distance of at least thirty (30) metres from the ordinary high water mark of any adjacent water body, where direct flow into a water body is not possible and no additional impacts are created.	Site Water Management Plan (Knight Piésold Ref. No. NB102-00181/10-5, Rev. 1, dated March 31, 2008)	
	Site Water Management Plan (Baffinland, dated March 31, 2009)	Incorporated into EPP
On-ise drilling has not been authorized within this Lisense.	(Baffinland, dated March 31,2010)  N/A	N/A
AS PER AMENDMENT NO. 2 (FEBRUARY 29, 2008) HAS BEEN AMENDED TO READ:  5. Drilling additives or mud shall not be used in connection with holes drilled through lake ice unless they are re-circulated or contained such that they do not enter the water, or are demonstrated to be non-toxic.	N/A N/A	N/A Incorporated into EPP
6. If artesian flow is encountered, drill holes shall be immediately sealed and permanently capped to prevent induced contamination of groundwater or salinization of surface waters. All artesian flows, including location (GPS), should be reported in the annual report to the NWB.	Report in the Annual Report to the Nunavut Water Board, if applicable	No artesian flow encountered to date
7. If the bottom of the permanently frozen ground, or permatifost, is broken through by the drill, the depth of the bottom of permatinest and location should be reported in the annual report to the Board for data management purposes.	Report in the Annual Report to the Nunavut Water Board, if applicable	The permafrost has not been penetrated to date
8. ADDED AS PER AMENDMENT No. 2 (FEBRUARY 29, 2008): For 'on-ice' drilling where drill additives are not being used, return water released must be nontoxic, and not result in an increase in total suspended solids in the immediate receiving waters above the Canadian Council of Ministers for the Environment, Guidelines for the Protection of Freshwater Aquatic Life (i.e. 10mg/L for lakes with background levels under 100 mg/L, or 10% for those above 100mg/L).	N/A	Incorporated into EPP
9. ADDED AS PER AMENDMENT NO. 2 (FEBRUARY 29, 2008):The Licensee shall establish water quality conditions prior to and upon completion of any drilling program through lake ice.		
PART G: CONDITIONS APPLYING TO SPILL CONTINGENCY PLANNING	N/A	Incorporated into EPP
1. The Lorense shall submit within ninely ((6)) days of issuance of the Licence, a revised Spill Contingency Plan that is specific to the scope of this Licence and prepared in accordance with the Spill Contingency Planning and Reporting Regulations developed under Section 34 or the Licence shall judgate the Plan by referring to, but not be limited by the comments result during the review of the application and include updated emergency contact information and updated in the review of the application and include updated emergency contact information and updated in the plan service of the application and include updated emergency contact information and updated in the plan service of the application and include updated emergency contact information and updated in the plan service of the application and include updated emergency contact information and updated in the plan service of the application and include updated emergency contact information and updated in the plan service of the application and include updated emergency contact information and updated in the plan service of the application and include updated emergency contact information and updated in the plan service of the application and include updated emergency contact information and updated in the plan service of the application and include updated emergency contact information and updated in the plan service of the application and include updated emergency contact information and updated in the plan service of the application and updated in the plan service of the updated in the plan service of the updated in the updated	Spill Contingency Plan (Qikiqtaaluk Environmental, March 2008)	
material safety data sheets to be included as an Appendix	Spill Contingency Plan (Baffinland, dated March 2009)	Complete
	(Baffinland, dated March 2010) (Baffinland, dated March 2011)	
2. If the Board does not approve the Plan referred to in this Part, the Licensee shall revise this Plan and resubmit it to the Board for approval within two (2) months of receiving notification of the Board's decision.	Spill Contingency Plan (Qikiqtaaluk Environmental, March 2008)	
	Spill Contingency Plan (Baffinland, dated March 2009)	Complete
	(Baffinland, dated March 2010) (Baffinland, dated March 2011)	
3. The Licensee shall implement the Plan specified in this Part as and when approved by the Board 4. The Licensee shall annually even the Plan reference to in this Part as and when approved by the Board 4. The Licensee shall annually even the Plan reference to in this Part and if needed, modify it to reflect changes in operation and/or technology. The Plan and/or any revisions shall be submitted with the Annual Report.	N/A Spill Contingency Plan	Plan has been approved
	(Qikiqtaaluk Environmental, March 2008) Spill Contingency Plan	Complete
	(Baffinland, dated March 2009) (Baffinland, dated March 2010) (Baffinland, dated March 2011)	<del></del>
5. The Licensee shall provide a report, to be approved by the Board, within ninety (90) days of issuance of the licence, appropriately qualified by an Engineer registered in Nunavut, which clearly details that the requirements of the CCME guidance document "Aboveground Storage Tank Systems for Petroleum and Allied Petroleum Products (2003)" have been met by the Licensee.		
Advergious Stringe Lats Systems for Petroleum and America Petroleum Products (2005) Take Leen line by the Licensee.	Mary River Project - Fuel Storage Facility - Milne Inlet (BH Martin Consultants Inc., Report Ref. No. 06-090, dated December 9, 2007)	Complete
	Mary River Project - Report on Fuel Storage Facilities (Milne Inlet and Mary River Sites) (GENIVAR, Report Ref. No. 06-090, dated January 18, 2008)	Complete
6. The Licensee shall ensure that any chemicals, petroleum products or wastes associated with the project do not enter water. All sumps and fuel caches shall be located at a distance of at least thirty (30) metres from the ordinary high water mark of any adjacent		
water body and inspected on a regular basis.	N/A	Incorporated into EPP
7. The Licensee shall ensure that any equipment maintenance and servicing be conducted only in designated areas and shall implement special procedures (such as the use of drip pans) to manage motor fluids and other waste and contain potential spills.  8. If during the term of this Licence, an unauthorized discharge of waste occurs, or if such a discharge is foreseeable, the Licensee shall:	N/A	Incorporated into EPP
Induring the term of this Licence, an unautionized discharge of waste occlurs, or if such a discharge is toreseeable, the Licensee shall:       Employ the Spill Contingency Plan;       Report the spill immediately to the 24-Hour Spill Line at (867) 920-8130		
and to the Inspector at (887) 975-4295, and	N/A	Incorporated into EPP
Up the spill site. PART H: CONDITIONS APPLYING TO ABANDOMMENT AND RESTORATION		
The Licensee shall implement the "Bulk Sample Program Abandonment and Restoration Plan" dated June 2007, as and when approved by the Board.     If the Plan referred to in Part H, item 1 is not approved, the Licensee shall make the necessary revisions and resubmit the Plan(s) within thirty (30) days following notification from the Board.		Complete
3. The Licensee shall review the Plant(s) referred to in this Part as required by changes in operation and/or technology and modify the Plan(s) accordingly. Revisions to the Plan(s) are to be submitted in the form of an Addendum to be included within the Annual	Abandonment and Reclamation Plan (Knight Piésold Ref. No. NB102-00181/6-7, Rev. 2, dated March 31, 2008) 2009 Abandonment & Reclamation Plan	Plan approved
Report unless directed otherwise by an inspector.	(Knight Piesold Ref. No. NB102-181/15-1, Rev. 0, dated March 26, 2009) 2010 Abandonment & Reclamation Plan	Complete
The Licensee shall complete all restoration work prior to the expiry of this Licence.  The Licensee shall comput progressive reclamation of any components of the project no longer required for the Licensee's operations.  When possible to do so, the Licensee shall backfill and restore, to the sastisfaction of an inspector, all sumps to the pre-existing natural contours of the land.	(Baffinland dated March 2010) 2011 Abandonment & Reclamation Plan	N/A N/A
7. The Lorens shall remove from the site infrastructures and site material, including but not limited to, all fuel caches, drums, barrels, buildings and contents, doods, water pumps and lines, all builty wastes, material and equipment before the expiry of this Ucense.	(Baffinland dated March 2011)	Ongoing
Ail roads and aircring. Early, shall be re-graded to match natural contour to reduce cresion.	N/A	N/A
DELETED AS PER AMENOMENT NO. 2 (FEBRUARY 29, 2008)  G. Hit cultures shall be emined and the draining-opened up to match the natural channel. Measures shall be implemented to minimize erosion and sedimentation.  AS PER AMENOMENT NO. 2 (FEBRUARY 29, 2008) HAS BEEN AMENOED TO READ:  SERVICE OF THE PROPERTY OF THE PROPER	N/A	N/A
9. The License shall, unless otherwise identified within the approved Plan under Part H, Item 1, remove all culverts and open the natural drainage channel. In carrying out this activity, measures shall be implemented to minimize erosion and sedimentation.	107	1071
	Abandonment and Reclamation Plan (Knight Piésold Ref. No. NB102-00181/6-7, Rev. 2, dated March 31, 2008)	
	2009 Abandonment & Reclamation Plan (Knight Piesold Ref. No. NB102-181/15-1, Rev. 0, dated March 26, 2009)	Complete
	2010 Abandonment & Reclamation Plan (Baffinland dated March 2010) 2011 Abandonment & Reclamation Plan	
	(Baffinland dated March 2011)	
10 In order to promote growth of vegetation and the needed misroclimate for seed deposition, all disturbed surfaces shall be prepared by ripping, grading, or scarifying the surface to conform to the natural topography. DELETED AS PER AMENDMENT NO. 2 (FEBRUARY 29, 2008)	N/A	N/A
11. Areas that have been contaminated by hydrocarbons from normal fuel transfer procedures shall be reclaimed to the satisfaction of an inspector. The use of reclaimed soils for the purpose of back fill or general site grading may be carried out only upon approval by an inspector.		
	Abandonment and Reclamation Plan (Knight Piésold Ref. No. NB102-00181/6-7, Rev. 2, dated March 31, 2008) 2009 Abandonment & Reclamation Plan	
	(Knight Piesold Ref. No. NB102-181/15-1, Rev. 0, dated March 26, 2009) 2010 Abandonment & Reclamation Plan	N/A
	(Baffinland dated March 2010) 2011 Abandonment & Reclamation Plan	
	(Baffinland dated March 2011)	
12. Drill holes and disturbed areas will be restored to natural conditions immediately upon completion of the drilling. The reciamation of drill holes must include the removal of any drill casing materials and the capping of holes with a permanent seal-DELETED AS PER AMENDMENT NO. 2 (FEBRUARY 29, 2008)	N/A	N/A
13. The Licensee may store drill core produced by the appurtenant undertaking in an appropriate manner and location at least thirty (30) metres above the ordinary high water mark of any adjacent water body, where any direct flow into a water body is not possible and no additional impacts are created, or as directed by an Inspector.	N/A	Incorporated into EPP
14. All disturbed areas shall be contoured and stabilized upon completion of work and restored to a ore-disturbed state.	N/A	N/A
DELETED AS PER AMENDMENT NO. 2 (FEBRUARY 29, 2008) PART 1: CONDITIONS APPLYING TO THE MONITORING PROGRAM  1. The Licenses bell inches it she to benefit to provide a program of the License on Environmental Medicine Blin which the following:		IWA
The Licensee shall submit to the Board for approval within (90) days of issuance of the licence an Environmental Monitoring Plan which addresses but is not limited to the following:     [iii Establishment of alternative treatment and disposal or discharge parameters for effluent discharged from the Bulk Fuel Storage Facilities(s);	Site Water Management Plan (Knight Piésold Ref. No. NB102-00181/10-5, Rev. 1, dated March 31, 2008)	
(ii) Monitoring requirements that may be required under the Bulk Sampling Management Plan; and	Site Water Management Plan (Baffinland, dated March 31, 2009) (Baffinland, dated March 31, 2010)	Complete
(iii) Address recommendations of interested parties.  2. The Licensee shall, at a minimum, maintain Monitoring Stations at the following locations:	(Liammanu, dated MalCit 31,2010)	
Monitoring Program Station Number / Description / Status     MRY - 1 / Water supply for the Many River Camp at Camp Lake / Active-Volume		
MRY – 2 / Summer water supply for the Mine Inlet Camp at the Km 99 lake / Active Volume MRY – 3 / Winter water supply for the Mine Inlet Camp at the Km 99 lake / Active Volume MRY – 4 / May River Camp sewage discharge at the WWTF / Active MRY – 4 / May River Camp sewage discharge at the WWTF / Active		
MRY - 4 J May River Camp sewage discharge from the PWSP MRY - 5 J Men helt Camp sewage discharge from the PWSP	Comprehensive Environmental Monitoring Plan (Knight Piésold Ref. No. NB102-00181/10-3, Rev. 1, dated March 31, 2008)	
IMPY – 5 / Milne Intel Camp sewage discharge from the PMSP MRY – 6 / Vider collected within the Bulk Fuel Storage Facility at Mary River prior to release	Comprehensive Environmental Monitoring Plan	Ongoing
MRY – 7 / Water collected within the Bulk Fuel Storage Facility at Milne Inet, prior to release MRY – 8 / Minewater and surface drainage either pumped or released from the Hematite Open Pit / Active MRY – 9 / Minewater and surface drainage either pumped or released from the Magnetite Open Pit / Active	(Baffinland, dated March 31, 2009) (Baffinland, dated March 31, 2010)	
MRY - 10 / Surface discharge from the weathered ore stockpile MRY - 10 / Surface discharge from the weathered ore stockpile MRY - 12 / Surface discharge from the turn ore run of fine ore discharged at the crossessing area	Baffinland, dated March 1, 2011)	
AS PER AMENDMENT NO. 2 (FEBRUARY 29, 2008) HAS BEEN AMENDED TO READ:  MRY - 11 / Surface discharge from the lump or en adfine one stockplies at the processing area  MRY - 13 - Surface discharge from the lump or en adfine one stockplies at the processing area  MRY - 13 - Surface discharge for the lump or en adfine one stockplies at Miles held		
NIKY - 1 - Number decreage train the unit of et an en or a cell segregated a wine nick AS PER AMENDMENT NO. 2 (FERRUARY 29, 2008) HAS BEEN AMENDED TO READ:  MRY - 12 / Surface discharge from the lump ore and fine ore stockpiles at Milne hiet		
3. The License shall sample at Montpointing Program Stations MRY 4, and MRY 5 every four (4) weeks during discharge and at Montpoining Stations MRY-4a and MRY-5a once prior to discharge and every four (4) weeks thereafter. Samples shall be analyzed for the following parameters:		
Biochemical Oxygen Demand - BOD Total Suspended Solids ThH	N/A	Ongoing
DPI Feacal Coliforms Oil and Grease (visual)		
4. The Licensee shall conduct toxicity testing on treated sewage effluent at the final discharge points at the Monitoring Station(s) MRY 4 and/or MRY - 4a, and MRY 5 and/or MRY - 5a, once annually during open water season in accordance with the following test procedures:		
(i) Acute lethality to Rainbow Trout, Oncorthynchus mykiss (as per Environment Canada's Environmental Protection Series Biological Test Method EPS/I/RM/13); and	N/A	Ongoing
(ii) Acute lethality to Daphina magna (as per Emircoment Canada's Emircomental Protection Series Biological Test Method EPS/1/RM/14).  6. The Licensee shall sample at Mentioring Program Stations MRY - 8 and MRY - 7 monthly during removal of water from the facilities as required by Part D, Item 20.  AS PER AMENDMENT NO. 2 (FEBRUARY 29, 2008) IAS SEEN AMENDED TO READ:  (See The Common C	N/A	N/A
5. The Licensee shall sample at:		
a) Montoring Program Stations MRY - 4 and MRY - 7, monthly during removal of water from the facilities as required by Part D, Bern 17, and b) Montoring Program Stations MRY - 8, MRY - 3, MRY - 1, MRY -	N/A N/A N/A	Ongoing Ongoing
The Monitoring Program and compliance dates specified in the Licence may be modified at the discretion of the Chief Administrative Officer.     The Licensee shall measure and record, in cubic metres, the daily quantities of water utilized for camp, drilling and other purposes.	N/A 2007 Annual Report to the Nunavut Impact Review Board (Knight Piésoid Ref. No. NB102-00181/11-1, Rev. 0, dated January 25, 2008)	N/A
	(Knight Plésold Ref. No. NB102-00181/11-1, Rev. 0, dated January 25, 2008)  2008 Annual Reports to the Nunavut Water Board (Baffinland, 2009)	n and a second
	2009 Annual Report to the Nunavut Water Board (Baffinland, 2010)	Pending; due March 31, 2011
	2010 Annual Report to the Nunavut Water Board (Baffinland, 2011)	
8. An Inspector may impose additional monitoring requirements. 9. The Licensee shall be within a Quality Assurance (QA) and Quality Control (QC) Quidelines for use by Class "5" Licensees in Collecting Representative Water Samples in Excitation (Collecting Representative Water Samples in Collecting Representative Water Sample	N/A	N/A
the Field, 1996" to an Analyst for approval within ninely (90) days of the issuance of the licence (amendment). The plan shall include analysis of field blanks and certified reference material, and replicate sampling in order to assess accuracy, precision and field contamination.	Surface Water Saw-Hi December Australia	
	Surface Water Sampling Program Quality Assurance & Quality Control Plan (Knight Piésold Ref. No. NB102-00181/10-7, Rev. 1, dated March 31, 2008)	
10. If the Board does not approve the Plan referred to in this Part, the Licensee shall revise this Plan and resultmit it to the Board for approvel within two (2) months of receiving notification of the Board's decision.	Surface Water Sampling Program Quality Accurance & Continue Control Plan	
10. If the Board does not approve the Plan referred to in his Part, the Licensee shall revise this Plan and resubmit it to the Board for approval within two (2) months of receiving notification of the Board's decision.  11. The Licensee shall implement the Plan specified in this Part as and when approved by the Board.  12. The Licensee shall annually review the approved Quality AssuranceQuality Control plan and modify it as necessary. Proposed modifications shall be submitted to an Analyst for approval.	Surface Water Sampling Program Quality Assurance & Quality Control Plan (Baffinand 2009) Surface Water Sampling Program Quality Assurance & Quality Control Plan	Complete
11. The Licensee shall implement the Plan specified in this Part as and when approved by the Board.	Surface Water Sampling Program Quality Assurance & Quality Control Plan (Baffinland 2009) Surface Water Sampling Program Quality Assurance & Quality Control Plan (Baffinland 2009)	Complete



#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

#### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN

	COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN		
	ITEM  14. All sampling, sample preservation and analyses shall be conducted in accordance with methods prescribed in the current edition of Standard Methods for the Examination of Water and Wastewater, or by such other methods approved by the Board.	DELIVERABLE	STATUS
Part	15. All analyses shall be performed in a laboratory accredited according to ISO/EC Standard 17025. The accreditation shall be current and in good standing.		
		(Knight Présold Ref. No. NB102-00181/11-1, Rev. 0, dated January 25, 2008)  2008 Annual Report to the Nunavut Water Board  (Baffinland, 2009)  2010 Annual Report to the Nunavut Water Board	Pending: due March 31, 2011
March   Marc	(ii) the location and name of the disposal facility for each waste type noted above, and (iii) the date that each was hauled off-list for disposal, for each occasion that these are removed from the site.		
Company   Comp	waters.  18. The Licensee shall determine the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations of temporary and permanent storage areas where wastes associated with camp, drilling and Infrastructure operations are deposited.	. (Knight Piésold Ref. No. NB102-00181/11-1, Rev. 0, dated January 25, 2008)	
	The Licensee shall report these co-ordinates to the Inspector prior to depositing wastes.	2008 Annual Report to the Nunavut Water Board (Baffinland, 2009)	
	20. The Licensee shall include in the Annual Report required under Part B, Item 5 all data and information required under this Part.	(Baffinland, 2011)	
### Carrier of Company (1997)   1997	AUDED AS YEAR MERIOMENT NO. 2 (FEBRUARY 29, 2008) 21. The Licensee shall obtain representative samples of the water column below any ice, where required under Part F, Items 8 and 9. Monitoring shall include, at a minimum, the following: Total Suspended Solids	2007 Annual Report to the Nunavut Water Board	
	pH  Electrical Conductivity  Total Trace Metals as determined by a standard ICP Scan (to include at a minimum, the following elements: AI, Sb, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, LI, Mn, Mo, Ni, Se, Sn, Sr, TI, Ti, U, V, Zn), and  Trace Arsenic and Mercury	2008 Annual Report to the Nunavut Water Board	Complete
	1. The Licensee may, without written consent from the Board, carry out Modifications to the Water Supply Facilities and Waste Disposal Facilities provided that such Modifications are consistent with the terms of this License and the following requirements are met		
	(ii) Such Modifications do not place the Licensee in contravention of the License or the Act;	N/A	N/A
	(iv) The Board has not rejected the proposed Modifications.		
			N/A
	4. The Licensee shall provide as-built plans and drawings, stamped and sealed by a professional Engineer registered in Nunavut, within ninety (90) days of completion of all construction works, including but not limited to the following:		
April   Apri	(ii) Rada dilgoment and all stream crossing installations; (iii) Waste Water Treatment Facilities; (iii) Butk Storage of fuel Facilities; and (iv) Landfill.	(BH Marin Consultants Inc., Report Ref. No. 06-909, dated December 9, 2007) Mang Neiver Project - Report on Fuel Storage Facilities (Millen Inited and Mary River Sites) (GENIVAR, Report Ref. No. 06-909, dated January 18, 2008) Mary River Project - Rotating Biological Contactor (RBC System) Swawge Treatment and Discharge - Millen Inlet As-Constructed Report (BH Martin Consultants Inc., Report Reference No. 06-909, dated January 21, 2009) Mary River Project - Tambs - A Lot Sevenge Treatment and Collidadage As-Constructed Report (BH Martin Consultants Inc.) Treatment and Collidadage As-Constructed Report (BH Martin Consultants) (Tambs - A Lot Sevenge Treatment and Collidadage As-Constructed Report (BH Martin Consultants) (Tambs - A Lot Sevenge Treatment Sevenge Collidadage As-Constructed Report Mary River Project - Rotating Biological Contactor (RBC) Sewage Treatment System As- Constructed Report	Completed
April   Apri	TRANSPORT CANADA - NAVIGABLE WATERS PROTECTION ACT APPROVALS - NAVIGABLE WATER CROSS	NGS (as Amended)	
	. No person shall permit any tools, equipment, vehicles, temporary structures or parts thereof used or maintained for the purpose of building or placing a work in a navigable water to remain is such water after the competion of the project.  2. Where a work or a portion of a work that is being constructed or maintained in a navigable water consists.	N/A	
The content of the	naterial to be removed to satisfaction of the Minister.		
	4. The 'works' as described within the plans shall be removed by the proponent/owner upon completion of the bulk sampling program prior to June 30, 2009.	Amendment requested to extend date toi June 30, 2015 to allow road to be used during project construction.	Amendment Approved 2009
	6. Upon installation of the proposed 'works', a description, drawings, and the location shall be posted with the local Hunter and Trapper Association.	Description and Drawings for 10 Crossings	
## 1	1. The conditions of this Authorization notwithstanding, should the above works or undertakings, due to weather conditions, different soil or other natural conditions, or for any other reason, appear, in the opinion of the Department of Fisheries and Oceans ("DFO")	ment #1, dated December 8, 2008)	
The state of the content of the co	project, to avoid or militigate adverse impacts to fisheries resources. DFO may also direct the Proponent and its agents, and contractors, to carry out at the Proponent's expense any works or activities deemed necessary by DFO to avoid or militigate further adverse impacts to fisheries resources. In circumstances where DFO is of the view that greater impacts may occur than were contemplated by the parties, DFO may also modify or rescind this authorization. If the authorization is to be changed the Proponent will be given an opportunity to discuss any proposed modifications or rescission.	N/A	N/A
1.	2. Conditions that relate to the Proponent plans: 2.1 The Proponent confirms that all plans and specifications relating to this authorization have been duly prepared and reviewed by appropriate professionals working on behalf of the Proponent. The Proponent acknowledges that they are solely responsible for all designs assistive, and workmanking have been full by works, associated with this Authorization.	N/A	Ongoing
	2.2 The installation of crossing structures at nine (9) navigable watercrossing sites (four (4) extra large crossing sites and five (5) large crossing sites), eight (8) large watercrossing sites and eight (8) medium watercrossing sites comply with those criteria as		
10	2.3 Works and undertakings shall be conducted in accordance with the practices outlined in the following reports and as approved by DFO:		
10   10   10   10   10   10   10   10	2.3.1 Email reparting coordinates and spawning mitigation, pregared by Derek Chubb (Baffinland Iron Mines Corporation), dated July 31, 2007 2.3.2 Memorandum reparting Mary River Project Bulk Sampling Program - Fish Habitat Compensation Updated Footprint Calculations and Compensation Area Proposed, signed by Maret Tae (Knight Plesold Consulting) and approved by Steve Alken (Knight Pleson Consulting), dated July 23, 2007.	d	
12.00   13.0	2.3.3 Memorandum regarding Mary River Project Bulk Sampling Program - Fish and Fish Habitat Monitoring Plan for DFO, signed by Maret Tae (Knight Plesold Consulting) dated July 23, 2007	N/A	N/A
1.   All and the second companies and the comp	2.3.4 Memorandum regarding the response to DFO Engineer's 2007-05-10 Questions, approved by Steven Aiken (Knight Plesold Consulting) dated June 6, 2007	N/A	N/A
1.   Application of the content of	2.35 Eather regarding the may share in operation Many River Project. Information Package for DFO Meeting - Ottawa May 2 and 3, 2007, prepared by Knight Piesold Consulting, dated May 2, 2007		
The content are a part of a part o	2.3.7 Application for Authorization for Works or Undertakings Affecting Fish Habitat, signed by Rodney Cooper (Baffinland Iron Mines Corporation) dated December 20, 2006	N/A	N/A
1. A continue for the continue is a transport of the continue for the co	2.3.8 The above documents and drawings are hereafter referred to as the "Plan". Where contradictions exist, the most recent version shall apply.  3. Conditions that relate to the mitigation of potential harmful alteration, disruption or destruction ("HADD") of fish habitat. The following measures shall be implemented to avoid the unauthorized HADD of fish habitat:	N/A	N/A
Company	3.1 Following the mitigations measures provided below as well as the mitigation measures provided in the Plan, the in-water work is allowed to occur within the restricted timing window from the September 1, 2007 to June 30, 2008		
Marked and an any layer declaration and product of the product o	are present in the vicinity 3.12 Machinery fording shall occur at least 20 meters upsteam or downstream of location where fish and/or spawning sites are noted.	N/A	
A	3.3 Mechinery fording the watercourse to bring equipment required for construction to the opposite side of the watercourse shall be limited to a one-time event (over and back) and occur only if an existing crossing at another location cannot be used. If the stream	N/A	Ongoing
1.	bed and banks are highly ercolible (e.g. dominated by organic materials and silts) and erosion and degradation is likely to occur as a result of equipment crossing, then a temporary crossing structure or other practices shall be used to protect these areas	N/A	Incorporated into EPP
14 Section and control and con	3.4 All materials and equipment used for the purpose of all work phases shall be operated and stored in a manner that prevents any deleterious substances (e.g. petroleum products, silt, debris, etc.) from entering the water.		
Secretary of the following and the control of the c	3.4.2 Vehicle and equipment re-liefling and maintenance shall be conducted above the ordinary limit where mark of any water body 3.4.3 Any part of equipment entering the water shall be free of fluid leaks and externally cleaned degreesed to prevent any deleterious substances from entering the water	N/A	Incorporated into EPP
Appear formed for the State delication and an interpretation product of the contraction o	3.5 Only clean, competent, certified non-acid generating rock and material free of fine particulate matter shall be placed in the water. 3.6 Material used for habitat compensation features shall not be taken from below the ordinary high water mark or shoreline of any water body	N/A	
Secretary of the foliation of the standard and an experimental foliation from the standard of		(Knight Piésold Ref. No. NB102-00181/10-8, Rev. 0, dated December 20, 2007) Fish Habitat No. Net Loss and Monitoring Plan	Ongoing
1	3.7 Sediment and erosion control measures shall be implemented prior to work, and maintained during the work phases, including decommissioning and restoration phases, to prevent entry of sediment into the water or the movement of re-suspended sediment		Incompanied into COD
Part	3.7.1 All disturbed areas shall be stabilized upon completion of work and restored to a pre-disturbed state or better		incorporated into EPP
**Continue to the to the continue of the base of \$0.50 continue of \$0.50 continue of the base of \$0.50 continue of \$0.50		(Knight Piesold Ref. No. NB102-001818-7, Rev. 2, dated March 31, 2008) 2009 Abandonment & Reclamation Pilan (Knight Piesold Ref. No. NB102-1811/5-1, Rev. 0, dated March 26, 2009) 2016 Abandonment & Reclamation Pilan (Baffinland dated March 2010) 2011 Abandonment & Reclamation Pilan	Ongoing
This for the Control of the Control	3.7.2 Sediment and erosion control measures shall be left in place and maintained until all disturbed areas have been stabilized 4. Conditions that relate to the compensation for the loss of 8551 square meters of fish habitat are defined in the Plan.		
12. The Propose that propose a comprehensive for helicus of few, including a debiled description of the founding including plane, comparison of the founding plane, comparison plane, compar	4.1 The specific locations of the fourtien (14) fish habitat compensation areas are located at: UTIZ cont 71 at C118 (UTIZ fasting 504133, UTIX hostning 797614). CV181 (UTIX Easting 504133, UTIX hostning 797614). CV182 (UTIX Easting 502013, UTIX hostning 797614). CV152 (UTIX Easting 502013, UTIX hostning 797618). CV152 (UTIX Easting 505183, UTIX hostning 797618). CV170 (UTIX Easting 505183, UTIX hostning 797618). CV170 (UTIX Easting 505180, UTIX hostning 7976182). CV151 (UTIX Easting 505180, UTIX hostning 7976182). CV152 (UTIX Easting 505180, UTIX hostning 79761830). CV153 (UTIX Easting 505180, UTIX hostning 797630).		N/A
43 In addition, the Proposer shall propose and submit for PEP review and agroved in the depth of special point of the following saler crossings: 80580, CV128, CV127, CV223, S6037, CV406, CV129, CV077, shall be completed by June 30, 2015.  Alternationate and Reclamation Plan (frequency of the following saler crossings: 80580, CV128, CV127, CV223, S6037, CV406, CV129, CV077, shall be completed by June 30, 2015.  Alternationation and the following saler crossings: 80580, CV128, CV127, CV223, S6037, CV406, CV129, CV077, shall be completed by June 30, 2015.  Alternationation which is the completed by June 30, 2016.  Alternationation which is completed by June 30, 2017.  Alternationation of the June 30, 2017.  Alternationation which is completed by June 30, 2017.  Alternationa	4.2 The Proponent shall prepare a comprehensive No Net Loss Plan, including a detailed description of the works at the fourteen (14) fish habitat compensation sites, detailed plans, construction methods, timelines for construction and a monitoring program		Complete
44 Decommissioning of the following water crossings 80500, CV120, CV217, CV223, BG017, CV040, CV072, CV099, CV120, CV077 shall be completed by June 30, 2015.  45 All compensation work shall be completed by June 30, 2009.  45 All compensation work shall be completed by June 30, 2009.  45 December 10 of the following water crossings 80500, CV120, CV217, CV223, BG017, CV040, CV072, CV099, CV120, CV077, Available to compensation work shall be completed by June 30, 2009.  45 All compensation work shall be completed by June 30, 2009.  45 December 10 of the following water crossings 10 of the following water crossings 10 of the following plan and be implementation or before August 30, 2007 to For form water adaptions 10 of the following plan and be implementation or before August 30, 2007 to For form water adaptions 10 of the following plan and be implementation or before August 30, 2007 to For form water adaptions 10 of the following plan and be implementation or before August 30, 2007 to For form water adaptions 10 of the following plan and be implementation or before August 30, 2007 to For form water adaptions 10 of the following plan and be implementation or before August 30, 2007 to For form water adaptions 10 of the following plan and be implementation or before August 30, 2007 to For form water adaptions 10 of the following plan and be implementation or before August 30, 2007 to For form water adaptions 10 of the following plan and because the following plan and b	4.2.1 The No net Loss Hain shall be submitted for the University and provide on or centre August 30, 2007.  4.3.1 in addition, the Proponent shall prepare and submit for DP Greetwar and approval on or before August 30, 2007, a construction plan including fining of the road enhancement activities, monitoring schedule for sediment and erosion control measures, and restoration details of how the four extra-large crossing sites and their respective floodplains shall be returned to pre-construction condition by restoring the natural hydrology, topography, and riparian vegetation.	Mary River Project Bulk Sampling Program - Fish and Fish Habitat Monitoring Plan for DFO	Complete
4.5. All compensation work shall be completed by Jane 20, 2009.  4.5. All compensation work shall be completed by Jane 20, 2009.  5.1. Additional bottomic plan is a function of the property and submitted on to before August 30, 2007 to PFo for seving and aground.  5.1. Additional bottomic plan is a function plan is a function of the property and submitted on to before August 30, 2007 to PFo for seving and aground.  5.1. Additional bottomic plan is a function of the property and submitted on to before August 30, 2007 to PFo for sevine and aground.  5.2. If we proposed flowed by the Proposed and submitted on to before August 30, 2007 to PFo for sevine and aground.  5.2. If we proposed flowed by the Proposed and submitted on the flower and submitted on the submitted on the flower and submitted on the flo	4.4 Decommissioning of the following water crossings: BG050, CV128, CV217, CV223, BG017, CV040, CV072, CV099, CV129, CV077 shall be completed by June 30, 2015.		
5. Conditions that relate to monotoring 5. A detabled Monotoring Plan shall be developed by the Proponent and submitted on or before August 30, 2007 to DFO for review and approval. 5.2. The approved Monotoring Plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the state of Lagostation plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the first year of Lagostation plan shall be implemented arrivally from the state of Lagostation plan shall be called Monotographs and administration plan shall be called Monotographs arrival plan shall be submitted to the lagalut, NU office of the Department of Fisheries and Oceans, Fish Habitat Monotographs shall be clearly libeled as to date and variage points. The photographic variage points and viewing direction shall be indicated, and clearly indexed to the photographs, on a plan view drawing of the construction shelds.  5.2. The photographs shall be clearly libeled as to date and variage points. The photographic variage points and viewing direction shall be indicated, and clearly indexed to the photographs, on a plan view drawing of the construction shelds.  6. A written report summarizing		(Knight Piésold Ref. No. NB102-001818-7, Rev. 2, dated March 31, 2008) 2009 Abandonment & Reclamation Pilan (Knight Piesold Ref. No. NB102-181/15-1, Rev. 0, dated March 26, 2009) 2010 Abandonment & Reclamation Pilan (Baffinland dated March 2010)	
\$2. The approved Monitoring Plan shall be implemented annually from the first year of upgrading the Milne hiet tote road (ie. 2007) to two years post-construction (2008-2008), and in the year of decommissioning (i.e., 2015) and one year after decommissioning (iii, 2015) and one year after decommissioning (iii, 2015) and one year after decommissioning (iii, 2015) and one year after decommission (iii, 2015) and one year after decommission (iii, 2015) and one year after decommission (iii, 2015) and year and year after decommission (iii, 2015) and year and year after decimal year and year an	5. Conditions that relate to monitoring 5.1 A detailed Monitoring Disability developed by the Proposent and submitted on or before August 30, 2007 to DEO for review and approval.	Fish Habitat No Net Loss and Monitoring Plan (Knight Piésold Ref. No. NB102-00181/10-4, Rev. 0, dated August 30, 2007)	Plan complete; implementation ongoing.
5.2.2 Monitoring of fish habitat compensation altes to ensure that the works are functioning as intended, according to the schedule in section 5.2 above.  5.2.3 if at any time during the monitoring period, compensation features are not functioning as intended, according to the schedule in section 5.2 above.  5.2.3 if at any time during the monitoring period, compensation features are not functioning as intended, measured shall be identified to reduce the risk of future failure and additional compensation, shall be submitted to the liquid, NU office of the Department of Fisheries and Oceans, Fish Habitat Management, Eastern Arctic Area on, or before December 31, 2010)  5.2.3 The photographs for each pre-construction, during construction, conforming construction, post-construction time periods shall be taken from the same variage points and viewing directions.  5.3.3 All photographs for each pre-construction, during construction, post-construction time periods shall be submitted to the liquid, NU office of the Department of Fisheries and Oceans, Fish Habitat Management, Eastern Arctic Area on, or before, December 31 of each year, according to the schedule in 5.2 above.  5.3.4 Indigation, compensation and monitoring measures shall be submitted to the liquid, NU office of the Department of Fisheries and Oceans, Fish Habitat Management, Eastern Arctic Area.  5.3.4 Indigation of the commencement of variety of the construction schedule, including of the construction schedule in 5.2 above.  5.3.4 Indigation, compensation, and monitoring measures shall be implemented to the laquid, NU office of the Department of Fisheries and Oceans, Fish Habitat Management, Eastern Arctic Area.  5.3.4 Indigation of the commencement of variety or variety of the construction of the laquid o	5.2 The approved Monitoring Plan shall be implemented annually from the first year of upgrading the Milne Inlet tote road (i.e. 2007) to two years post-construction (2008-2009), and in the year of decommissioning (i.e., 2015) and one year after decommissioning (i.e., 2016). The detailed Monitoring Plan shall include but not be limited to:	Fish Habitat No Net Loss and Monitoring Plan	_
adaptive management approach. 3.3 A photographic record of before, during and affer construction, showing that all works and undertakings have been completed according to the approved Plan and conditions of this authorization, shall be submitted to the Iqaluit, NU office of the Department of Fisheries and Oceans, Fish Habitat Management, Eastern Arctic Area.  Tote Road Upgrades Fish Habitat Monitoring - 2007 Annual Report to Department of Fisheries and Oceans Fish Habitat Monitoring - 2007 Annual Report to Department of Fisheries and Oceans (Knight Piesold Ref. to. N18102-20181/10-8, Rev. 0, dated December 21, 2007)  (Balfinland, date	5.2.1 Monitoring to assess if the installation of crossing structures has adversely affected upstream and downstream tish migration according to the schedule in section 5.2 above.  5.2.2 Monitoring of fish habitat compensation sites to ensure that the works are functioning as intended, according to the schedule in section 5.2 above.		Complete
5.3 A photographic record of before, during and after construction, showing that all works and undertakings have been completed according to the approved plan and conditions of this authorization, shall be submitted to the Iqaluit, NU office of the Department of Fisheries and Oceans, Fish Habitat Management, Estatem Arctic Area on or before, plan the Care and C	adaptive management approach.	n	
5.3.2 The photographs for each pre-construction, during construction, periods shall be taken from the same variage point(s) and direction.  5.3.3 All photographs shall be clearly labelled as to date and variage points. The photographic variage points and viewing directions shall be indicated, and clearly indexed to the photographs, on a plan view drawing of the construction site(s).  6. A written eport summarizing the above monitoring results shall be submitted to the laplaid, NU office of the Department of Fisheries and Oceans, Fish Habitat Management, Eastern Arctic Area on, or before, December 31 of each year, according to the schedule in S.  7. Any deviation from the approved plans, the construction schedule, mitigation, compensation and/or monitoring measures shall be implemented to the satisfaction of the satisfaction of the satisfaction of the satisfaction of the commercement of winks or undertakings shall be provided to the lapluit, NU office of the Department of Fisheries and Oceans, Habitat Management, Eastern Arctic Area, by e-mail to Nurawulf-labitating difference of a region of the commercement of winks or undertakings shall be provided to the lapluit, NU Department of Fisheries and Oceans, Habitat Management, Eastern Arctic Area, by e-mail to Nurawulf-labitating difference of a region of the commercement of winks or undertakings shall be provided to Nurawulf-labitating difference on a region of the commercement of winks or undertakings shall be provided to Nurawulf-labitating difference on a region of the commercement of winks or undertakings shall be provided to Nurawulf-labitating difference on a region of the commercement of winks or undertakings shall be provided to Nurawulf-labitating difference on a region of the commercement of winks or undertakings shall be provided to Nurawulf-labitating difference on a region of the commercement of winks or undertaking shall be provided to Nurawulf-labitating difference on a region of the commercement of winks or undertaking shall be provided to Nurawulf	5.3 A photographic record of before, during and after construction, showing that all works and undertakings have been completed according to the approved Plan and conditions of this authorization, shall be submitted to the liquid, NU office of the Department of Fisheries and Oceans, Fish Habitat Management, Eastern Arctic Area on or before December 31 of each year, according to the schedule in 5.2 above		
S.3.2 In photographs for each pre-construction, during construction, periods shall be laken from the same variage points and viewing directions shall be indicated, and clearly indexed to the photographs, on a plan view drawing of the construction site(s).  6. A written report summarizing the above monitoring results shall be submitted to the igaluit, NU office of the Department of Fisheries and Oceans - Fish Habitat Management, Eastern Arctic Area on, or before, December 31 of each year, according to the schedule in 52.  7. Any develation from the approved plans, the construction schedule, mitigation, compensation and/or monitoring measures stated above must be discussed with, and approved in writing by the lagaluit, NU office of the Department of Fisheries and Oceans, Fish Habitat Management, Eastern Arctic Area prior to implementing  8. All mitigation, compensation, and monitoring measures shall be implemented to the satisfaction of the laguit, NU of the Department of Fisheries and Oceans, Habitat Management, Eastern Arctic Area, by e-mail to Nurswithabitat@fift-mpo.g.c.c or fax (867) 979-8039 not less to the construction provided to Nurswithabitat@fift-mpo.g.c.c or by Derek Chubb of Computer.  **Computer.**  **Com	5.3.1 The photographic record shall include, but not be limited to, a record of the sediment and erosion control measures, compensation measures and upstream and downstream views of the crossings	Fisheries and Oceans	Correlate
6. A written report summarizing the above monitoring results shall be submitted to the liquidit, NU office of the Department of Fisheries and Oceans - Fish Habitat Management, Eastern Arctic Area on, or before, December 31 of each year, according to the schedule not be approved plane, the construction schedule, miligation, compensation, and or monitoring measures stated above must be discussed with, and approved in writing by the liquidit, NU office of the Department of Fisheries and Oceans, Fish Habitat Management, Eastern Arctic Area and Oceans, Fish Habitat Management, Eastern Arctic Area and Oceans, Fish Habitat Management, In the Indication of the summarization of the summarization of the summarization and oceans, Fish Habitat Management, In the Indication of the Summarization of the Summari	5.3.2 The photographs for each pre-construction, during construction, post-construction time periods shall be taken from the same vantage point(s) and direction.  5.3.3 All photographs shall be clearly labelled as to date and vantage points. The photographic vantage points and viewing directions shall be indicated, and clearly indexed to the photographs, on a plan view drawing of the construction site(s).	(Knight Piésold Ref. No. NB102-00181/10-8, Rev. 0, dated December 21, 2007)	Complete
7. Any deviation from the approved plans, the construction schedule, militigation, compensation and/or monitoring measures stated above must be discussed with, and approved in writing by the liquid, NU office of the Department of Fisheries and Oceans, Fish half.  NA  NA  NA  NA  NA  Incorporated into EPP  Written notification of the commencement of writs or undertakings shall be provided to the liquid, NU Department of Fisheries and Oceans, Habitat Management, Eastern Arctic Area, by e-mail to Nunewulf-labitat@difo-mpo.gc.ca or fax (867) 979-8039 not less  August 20, 2007 email notification provided to Nunewulf-labitat@difo-mpo.gc.ca by Derek Chubb of Commencement of writs or undertakings shall be provided to the liquid, NU Department of Fisheries and Oceans, Habitat Management, Eastern Arctic Area, by e-mail to Nunewulf-labitat@difo-mpo.gc.ca or fax (867) 979-8039 not less  August 20, 2007 email notification provided to Nunewulf-labitat@difo-mpo.gc.ca by Derek Chubb of Commencement of write or consequent or consequent provided to Nunewulf-labitat@difo-mpo.gc.ca by Derek Chubb of Commencement of write or consequent provided to Nunewulf-labitat@difo-mpo.gc.ca by Derek Chubb of Commencement of write or consequent provided to Nunewulf-labitat@difo-mpo.gc.ca by Derek Chubb of Commencement of write or consequent provided to Nunewulf-labitat@difo-mpo.gc.ca by Derek Chubb of Commencement of write or consequent provided to Nunewulf-labitat@difo-mpo.gc.ca by Derek Chubb of Commencement or Commencement	6. A written report summarizing the above monitoring results shall be submitted to the liquid, NU office of the Department of Fisheries and Oceans - Fish Habitat Management, Eastern Arctic Area on, or before, December 31 of each year, according to the schedule in 5.2	<u> </u>	
9. Written notification of the commencement of works or undertakings shall be provided to the liquid, NU Department of Fisheries and Oceans, Habitat Management, Eastern Arctic Area, by e-mail to NunawuHabitat@div-mpo.gc.ca or fax (867) 979-8039 not less than 10 days note to the initiation of mid-under or undertakings shall be provided to NunavuHabitat@div-mpo.gc.ca by Derek Chubb of Complete August 20, 2007 email notification provided to NunavuHabitat@div-mpo.gc.ca by Derek Chubb of	7. Any deviation from the approved plans, the construction schedule, mitigation, compensation and/or monitoring measures stated above must be discussed with, and approved in writing by the Iqaluit, NU office of the Department of Fisheries and Oceans, Fish Habitat Management, Eastern Arctic Area prior to implementing	N/A	N/A
han 10 data arise to the initiation of each works or undertakings.	8. All mitigation, compensation, and monitoring measures shall be implemented to the satisfaction of the liquiut, NU of the Department of Fisheries and Oceans, Habitat Management Eastern Arctic Area.		Incorporated into EPP
	9. Written notification of the commencement of works or undertakings shall be provided to the liquiut, NU Department of Hisheries and Oceans, Habitat Management, Eastern Arctic Area, by e-mail to NunswitHabitat@db-mpo.gc.ca or tax (867) 979-8039 not less than 10 days prior to the initiation of said works or undertakings		Complete

Rev. 1 - Updated and Reissued



# BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN

#### APPLICABLE LEGISLATION AND GUIDELINES

Act	Regulation	Responsible Agency	Guideline
FEDERAL		J ,	
Aeronautics Act, [R.S. 1985, c. A-2]	Canadian Aviation Regulations, [SOR/96-433]	TC-Civil Aviation	
Arctic Waters Pollution Prevention Act, [R.S.C.	Arctic Waters Pollution Prevention Regulations [C.R.C., c.345]		Guidelines for the Operation of Tankers and Barges in Canadian Arctic Waters (Interim)
1985, c. A-12]	Arctic Shipping Pollution Prevention Regulations	TC-Marine Safety	Arctic Ice Regime Shipping System Standards Arctic Waters Oil Transfer Guidelines
	Ballast Water Control and Management Regulations SOR/2006-129		A Guide to Canada's Ballast Water Control and
Canada Shipping Act, 2001, [2001, c.26]	Anchorage Regulations SOR/88-101	TC-Marine Safety	Management Regulations
	Oil Pollution Prevention Regulatio	]	
	Response Organization and Oil Handling Facilities Regulatio Handling of Carloads of Explosives on Railway Trackage Regulations SOR/79-15		
	Trianding of Candads of Explosives of Ranway Trackage Regulations 30R/19-13		
Canada Transportation Act, [1996, c. 10]	Railway Employee Qualification Standards Regulations SOR/87-150	TC	
Canada Transportation Act, [1990, C. 10]	Railway Prevention of Electric Sparks Regulations SOR/82-101t Railway Third Party Liability Insurance Coverage Regulations SOR/96-33	10	
	Railway Traffic Liability Regulations		
	Railway Service Equipment Cars Regulations SOR/86-922		
	Natural and Man-made Harbour Navigation and Use Regulations SOR/2005-7: Port Authorities Management Regulations		
Canada Marine Act 1998, c. 10	Port Authorities Operations Regulations SOR/2000-55	TC	
Canada Water Act ID C C 1095 a C 111	Seaway Property Regulations SOR/2003-105	EC	
Canada Water Act, [R.S.C. 1985, c. C-11] Canada Wildlife Act ( R.S., 1985, c. W-9 )	Wildlife Area Regulations (C.R.C., c. 1609)	EC	
` ' '	Environmental Emergency Regulations [SOR/2003-307]		CCME Canada Wide Standards for Dioxins and
	Federal Registration of Storage Tank Systems for Petroleum Products and Allied Petroleum		Furans CCME Canada Wide Standards for Mercury
	Products on Federal Lands or Aboriginal Lands Regulations (SOR/97-10	-	Emissions Health Canada Federal Contaminated Sites
	Fuels Information Regulations, No. 1 (SOR/C.R.C., c. 407)		Guidance on Human Health Risk Assessment in Canada
Canadian Environmental Protection Act, [1999,	Interprovincial Movement of Hazardous Waste Regulations (SOR/2002-301)	EC	
[1999, c.33]	Sulphur in Diesel Fuel Regulations (SOR/2002-254 Sulphur in Gasoline Regulations (SOR/99-236)		
	Proposed - Interprovincial Movement of Hazardous Waste and Hazardous Recyclable Material		
	Regulations		
	Proposed - Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations		
	Proposed - Regulations Amending the Environmental Emergency Regulations	-	http://www.ec.gc.ca/CEPARegistry/guidelines/
Explosives Act, [R.S.C. 1985, c. E-17]	Ammonia Nitrate and Fuel Order, [C.R.C., c. 598]	NRCan	
	Explosives Regulations [C.R.C., c. 599		Guidelines for the Use of Explosives In or Near
	Metal Mining Effluent Regulations, [SOR/ 2002-2222]		Canadian Fisheries Waters
			DFO - Freshwater Intake End-of-Pipe Fish Screen
Fisheries Act, [R.S.C. c. F-14]		DFO	Guideline DFO-Habitat Conservation and Protection
			Guidelines 1998
		-	Various DFO Operational Statements
			DFO Policy for the Management of Fish Habitat
Migratory Birds Convention Act, 1994, [1994, c.22]	Migratory Bird Sanctuary Regulations, [C.R.C., c.1036 Migratory Birds Regulations, [C.R.C., c.1035	- EC	
Navigable Waters Protection Act,	Navigable Waters Bridges Regulations (C.R.C., c. 1231)	TC - NWPP	
[R.S. 1985, c. N-22]	Navigable Waters Works Regulations (C.R.C., c. 1232)		
Nunavut Act, [1993, c. 28]	Nunavut Archaeological and Paleontological Sites Regulations, [SOR/2001-220]	GN-CLEY	A Guide to Mineral Exploration and Development or
Nunavut Land Claims Agreement  NLCA Article 12-Development Impact		NTI NIRB	Inuit Owned Lands in Nunavu
NLCA Article 13-Water Management		NWB	
NLCA Article 26-Inuit Impact Benefit Agreement		DIO	
NLCA Article 6-Wildlife Compensation NLCA Article 20-Inuit Water Rights		NWB/DIO	
NLCA Article 21-Entry and Access Part 4		144AD/DIO	
Nunavut Waters and Nunavut Surface Rights	Application of Regulations made under paragraph 33(1)(m) or (n) of the Northwest Territories	INAC	
Tribunal Act, [2002, c.10] Species At Risk Act, [2002, c.29]	Waters Act in Nunavut Order	EC	Species at Risk Act: A Guide
	Canada Mining Regulations, [C.R.C., c. 1516]		INAC Mine Site Reclamation Policy for Nunavut
Territorial Lands Act, [R.S. 1985, c. T-7]	Territorial Land Use Regulations, [C.R.C., c. 1524]	INAC	
	Territorial Quarrying Operations, [C.R.C., c. 1527]	]	
Transportation of Dangerous Goods Act,	Northwest Territories Mining District and Nunavut Mining District Order		
[1992, c.34]	Transportation of Dangerous Goods Regulations	TC	



# BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN

#### APPLICABLE LEGISLATION AND GUIDELINES

Act	Regulation	Responsible Agency	Guideline
TERRITORIAL			•
	O TOTAL		
Commissioner's Land Act (Nunavut), [R.S.N.W.T. 1988, c. C-11]	Commissioner's Airport Lands Regulations, N.W.T. Reg. 067-97		
1900, C. C-11]	Commissioner's Land Regulations, R.R.N.W.T. 1990 c. C-13		
	Spill Contingency Planning and Reporting Regulations, N.W.T. Reg. 068-93		Spill Contingency planning and reporting in Nunavu A Guide to the new regulation:
	Asphalt Paving Industry Emission Regulations, R.R.N.W.T. 1990 c. E-23		Government of Nunavut Environmental Guideline for Site Remediation
			Government of Nunavut Guideline for Management of Waste Lead and Lead Paint
			Government of Nunavut Environmental Guideline for Air Quality Sulphur Dioxide and Suspended Particulates
			Government of Nunavut Guideline for Dust Suppression
Environmental Protection Act (Nunavut), [R.S.N.W.T. 1988, c. E-7]			Government of Nunavut Environmental Guideline for General Management of Hazardous Waste
[			Government of Nunavut Environmental Guideline fo Industrial Waste Discharges
			Government of Nunavut Environmental Guideline fo Waste Antifreeze
			Government of Nunavut Environmental Guideline for Waste Asbestos
			Government of Nunavut Environmental Guideline for Waste Batteries
			Government of Nunavut Environmental Guideline for Waste Paints
			Government of Nunavut Environmental Guideline for Waste Solvents
Explosives Use Act, R.S.W.N.T. 1988, c.E-10	Explosives Regulations, R.R.N.W.T. 1990 c. E-27		
Fire Prevention Act, R.S.N.W.T. 1988, c. F-6	Fire Prevention Regulations, R.R.N.W.T. 1990 c. F-12		
	Propane Cylinder Storage Regulations, N.W.T. Reg. 094-91		
Mine Health and Safety Act, [S.N.W.T 1994, c.25]	Mine Health and Safety Regulations, [R-125-95 Mine Health and Safety Regulations, amendment, Nu. Reg. 016-2003		
	Camp Sanitation Regulations, R.R.N.W.T. 1990 c. P-12		
	General Sanitation Regulations, R.R.N.W.T. 1990 c. P-12		
Public Health Act, R.S.N.W.T. 1988, c. P-12	Public Water Supply Regulations, R.R.N.W.T. 1990 c. P-10		
	Public Sewerage Systems Regulations, R.R.N.W.T. 1990 c. P-23		
	Asbestos Safety Regulations, N.W.T. Reg. 016-92		
	General Safety Regulations, R.R.N.W.T. 1990 c. S-1		
Safety Act, R.S.N.W.T. 1988, c. S-1	General Safety Regulations, amendment, Nu. Reg. 021-2000		
	Safety Forms Regulations, N.W.T. Reg. 102-91		
	Silica Sandblasting Safety Regulations, N.W.T. Reg. 015-92		
	Work Site Hazardous Materials Information System Regulations, R.R.N.W.T. 1990 c. S-2	_	
Scientists Act, [R.S.N.W.T. 1988, c. S-4]	Scientists Act Administration Regulations, N.W.T. Reg. 174-96		
Transportation of Dangerous Goods Act, [R.S.N.W.T. 1988, c. 81 (Supp.)]	Transportation of Dangerous Goods Regulations, 1991, N.W.T. Reg. 095-91		
	Wildlife General Regulations, N.W.T. Reg. 026-92		
	Critical Wildlife Areas Regulations, R.R.N.W.T. 1990 c. W-3		
	Polar Bear Defence Kill Regulations, N.W.T. Reg. 037-93		
	Wildlife Management Barren-Ground Caribou Areas Regulations, N.W.T. Reg. 099-98		
Wildlife Act, [R.S.N.W.T. 1988, c. W-4]	Wildlife Management Grizzly Bear Areas Regulations, N.W.T. Reg. 155-9		
	Wildlife Management Muskox Areas Regulations, R.R.N.W.T. 1990 c. W-11		
	Wildlife Management Polar Bear Areas Regulations, R.R.N.W.T. 1990 c. W-13		
	Wildlife Sanctuaries Regulations, R.R.N.W.T. 1990 c. W-20		
<u>i</u>	Wildlife Preserves Regulations, R.R.N.W.T. 1990 c. W-18		
Workers' Compensation Act, R.S.N.W.T. 1988, c. W-6	Workers' Compensation General Regulations, R.R.N.W.T. 1990 c. W-21		

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#### TABLE 3.1

# BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

#### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN

### ROLES AND RESPONSIBILITIES

Position	Responsibility
Position	- Liaise with Operations Manager and Vice President, Sustainability and Director EHS, providing overall direction of corporate
Executive Vice President,	Communicate with stakeholders and government agencies     Provide media relations, if required
Vice President, Sustainability	- Support the implementation of the CEMP and EPP to facilitate compliance with these documents and environmental permits, regulations and best practices - Transmit management and regulatory decisions to Environmental and Project Managers - Liaise with stakeholders, regulatory agencies and communities - Provide media relations, if required Lead the development and direct the implementation of the Corporate environment policy throughout the Operating Units of the
Director EHS	Providing direction and assistance to the Corporation in developing and implementing its environmental strategies and establishing strategic risk programs and liability management Assist with the preparation of the annual budgets Providing interpretation and guidance to the Corporation to ensure accurate information on environmental regulations and proposed regulations effecting the industry and business enterprise Assuring that all Operating Facilities remain free of any environmental regulatory violations through the initiation of the appropriate audits  Maintain contact with the appropriate Government and Regulatory Authorities
Manager, Sustainable Development	<ul> <li>Assist in the coordination of permit and regulatory submissions</li> <li>Work with Environmental Consultants to establish baseline projects to achieve company objectives</li> <li>Provide guidance on regulatory and baseline work to the Vice President, Sustainable Development on an ongoing basis Provide technical input and support in the development and implementation of a company audit program, for environment</li> </ul>
Operations Manager	Manage site activities including ensuring implementation of the CEMP and EPP     Accountable for compliance with applicable legislation, permit terms and conditions and field level commitments made by Baffinland     Report to the Vice President, Operations and Vice President, Sustainability on environmental incidents, response measures and outcomes     Document the cause of environmental incidents and effectiveness of response, and implement the appropriate measures to prevent a recurrence     Ensure that the situations are resolved and all follow-up communication and reports are filed with the necessary regulatory authorities (including spill reports)
Site Managers	Site Managers are located on site and have responsibility for day-to-day activities on the project. In relation to environmental management, the Site Manager's responsibilities include:  - Ensure environmental considerations are integrated into decision-making for all construction activities  - Liaise with Environmental Superintendent, Site Engineers and Operations Manager to ensure the environmental controls and procedures in the EPP are implemented  - Conduct regular site checks to ensure environmental controls such as silt fences are functioning properly
Site Engineers	Site Engineers will be located at site to oversee key construction activities. The responsibilities of the Site Engineers include the following:  - Ensure environmental considerations are integrated into decision-making for all construction activities  - Direct field work in accordance with the CEMP and EPP  - Conduct regular site checks to ensure environmental controls such as silt fences are functioning properly  - Liaise with Site Managers, Operations Manager and Environmental Superintendent to ensure that the environmental controls and
EHS Superintendent	The EHS Superintendents will report to the Director EHS and will maintain day-to-day contact and support to the Operations Manager and Site Managers.  The principal role of the Environmental Superintendent is to support line management (Operations Manager, Site Managers and Site Engineers) in the satisfactory implementation of the CEMP and EPP, and to monitor environmental compliance. Further, at the discretion of the Vice President Sustainability their responsibilities may include:  - Endorse the CEMP and EPP  - Maintain, assess and monitor the implementation of the CEMP and EPP  - Confirm that all project environmental obligations are met, through the CEMP and EPP, and otherwise  - Provide input and advice to engineers on work method statements  - Assist in the preparation of environmental induction and training materials  - Coordinate site visits by government inspectors  - Ensure procedures are in place to respond to environmental incidents  - Solicit the advise or input of environmental consultants  - Coordinate environmental documents  - Ensure adequate system environmental audits are undertaken  - Review and endorse reports on environmental compliance  - Assist in ways necessary to ensure monitoring of environmental controls, and the monitoring of the subcontractor environmental performance is undertaken  The Environmental Superintendent will maintain copies of regulatory licenses and permits and the CEMP at site. He/she will also maintain records of all inspection reports, environmental field monitoring data and results, employee induction and training records, environmental accidents/incidents/emergency reports, a complaints register, non-conformance reports, and annual reports required by approvals. The Environmental Superintendent will coordinate the preparation, review and distribution, as appropriate, of these documents.



#### TABLE 3.1

# BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

#### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN

### ROLES AND RESPONSIBILITIES

Position	Responsibility
Environmental Consultants	Provide specialist advice and input on environmental matters, reporting to the Vice President, Sustainable Development and supporting the On-site Environmental Superintendent     Conduct environmental baseline and monitoring program     Conduct audits of operations, if requested     Prepare environmental reports
Contractors/Sub-contractors	All contracted project personnel are considered equivalent to Baffinland staff in all aspects of environmental management and control and their responsibilities in this respect mirrors those of Baffinland personnel. Contractor personnel will be included in the on-site induction process.  The responsibilities of the Contractors include but are not limited to the following:  Comply in full with the requirements of the EPP The responsibilities of the Contractor Foremen include the following:  Conduct regular site checks to ensure that regular maintenance is undertaken to minimize environmental impacts  Provide personnel with appropriate environmental toolbox/tailgate meetings and training

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#### TABLE 3.2

# BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

#### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN

### MONITORING AND INSPECTION SUMMARY

Component	Monitoring Task		Status	
		Complete	Ongoing	
METEOROLOGY	Continuous wind speed, direction, temperature, precipitation at Mary River, Milne Inlet, Steensby Inlet		<b>√</b>	
AIR QUALITY	Emissions stack testing of camp waste incineration	✓		
	Air quality monitoring of bulk sample activities at Milne Inlet	✓		
	Air quality monitoring of bulk sample activities at Mary River	✓		
	Air quality monitoring of bulk sample activities along Milne Inlet Tote Road	✓		
	Representative vegetation sampling in vicinity of bulk sample activities	✓		
NOISE	Noise monitoring of bulk sample activities at Milne Inlet	✓		
	Noise monitoring of bulk sample activities at Mary River	✓		
LANDFORMS				
Physical Stability	Inspection of bulk sample pit and residual stockpiles		<b>√</b>	
	Inspection of tote road, water crossings and borrow/quarry areas for physical stability and sediment and erosion control		✓	
	Inspection of polishing waste stabilization ponds		<u>√</u>	
	Inspection of lined bulk fuel containment areas		✓	
TERRESTRIAL WILDLIFE AND BIRDS	To account a more			
General	Incidental wildlife logs		<u> </u>	
0. "	Pre-drilling and post-drilling checklists		✓	
Caribou	Aerial surveys focused on environmental baseline data collection	<b>√</b>	_	
	Provide support to Government of Nunavut regional collaring program		· ·	
Carnivores	Active wolf den inventory and monitoring during bulk sample program	<b>√</b>		
Raptors	Raptor behaviour and breeding success in relation to project activities			
Loons, Ducks and Geese	Behaviour and breeding success of loons in relation to disturbance from project activities	✓ ✓		
Songbirds and Shorebirds	Behaviour and breeding success in relation to disturbance from project activities	✓ ✓		
Seabirds	Monitor the effects of disturbance from the bulk sampling program	٧		
FISHERIES AND AQUATIC RESOURCES	Full-time road construction supervision for overall QA/QC of the implementation of environmental protection measures and compliance			
Fish Habitat	with permit requirements.	1		
risii nabilal		· ·		
	Inspect HADD crossings to confirm presence or absence of spawning sites within 20 m up and downstream.  Monitor construction activities and turbidity at HADD crossings and compensation sites by an environmental inspector during and post			
	worldor construction activities and turbidity at HADD crossings and compensation sites by an environmental inspector during and post construction.	✓		
	Maintain a photographic record of all HADD authorized crossings and fish habitat compensation works before, during and after construction.	✓		
	Monitor fish habitat compensation works to ensure that the works are functioning as intended.		<b>√</b>	
	Wonitor in labilitation with which is definite that the works are intuitioning as interiored.  Monitor construction of water intake and sewage outfalls at Camp Lake and Sheardown Lake.		•	
	Monitor amount of ice build-up in front of the culverts and remove if necessary.	•	<b>√</b>	
	information amount of ice build-up in mont of the curvers and remove if necessary.		•	
Fish Migration	Measure flow depth at all 25 HADD authorized crossings during the low flow period to ensure fish passage in the embedded culvert.	,		
FISH MIGRATION	weasure now depth at all 25 RADD authorized crossings usuling the own low period or ensure his passage in the embedded curver.  Monitor water flow velocity at the four box culvert crossings to ensure crossing installation does not adversely affect upstream or	•		
		1		
MARINE WILDLIFE	downstream fish migration.	· ·		
Polar Bears	Bear monitors will supervise work and camps at the coasts as well as isolated field work		<b>√</b>	
Whales	Behavioural responses of narwhal and bowhead whales to sealift traffic	<b>√</b>	•	
Ringed Seals	Benaviour responses to construction activity and noise in the Milne Inlet area	· /		
WATER QUALITY	Kinged sear responses to construction activity and moise in the willne time, area	•		
Water Supply	Sampling and testing (field and laboratory) of potable water supply sources	Saa "	Γable 4.2	
		Sec .	14010 4.2	
Sewage Effluent	Sampling of final effluent from the Waste Water Treatment Facilities (WWTFs) and Polishing/Waste Stabilization Ponds (PWSPs)	Saa '	Γable 4.2	
Site Runoff	Sampling water quality runoff from bulk fuel storage berms, bulk sample pits, and ore stockpiles		Table 4.2	
Drill Water Run-Off	Sampling water quality from into but lear satings before the state sample bits, and die stockpites  Sampling of water quality in vicinity of exploration drilling	360	1 auic 4.2	
Geotechnical Drilling	Camping or water quarry in vicinity or exponential representation reliming Pre-drilling and post-drilling water quality monitoring for on-ice drilling		· ·	
Geolechincal Drilling	Regional water quality monitoring as part of baseline program; includes site runoff stations in addition to those prescribed by the water		•	
Baseline Water Quality	Regional water quality informing as part or baseline program, includes site forms stations in adultion to those prescribed by the water license in Table 4.3		1	
Kinetic Testing	On-site kinetic testing of ore and waste rock samples			
HYDROLOGY	On-site kinetic testing of one and waster took samples Baseline data collection - seasonal hydrology stations			
III DINOLOGI	Baseline data collection - all season hydrology stations Baseline data collection - all season hydrology stations established with Water Survey of Canada		· ·	
WASTE MANAGEMENT	Description and consolidit an occosi rigations conditioned with system during or canada			
	Non-hazardous solid wastes taken off-site for disposal (i.e., to Pond Inlet's landfill) to be logged; TDG waste manifests for hazardous			
			✓	
Off-Site Waste Disposal	wastes taken off-site to be provided to Environmental Superintendent		- ',	
·	wastes taken off-site to be provided to Environmental Superintendent.  Regular visual inspection of temporary waste storage facilities		✓	
Off-Site Waste Disposal On-Site Waste Disposal	Regular visual inspection of temporary waste storage facilities		<u> </u>	
On-Site Waste Disposal	wastes taken off-site to be provided to Environmental Superintendent. Regular visual inspection of temporary waste storage facilities Landfill Monitoring form			
On-Site Waste Disposal  OPERATIONS MONITORING	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form			
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations		✓	
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations Fuel Management	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations  Regular inspection of fuel storage facilities and operations		✓ ✓	
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations  Regular inspection of fuel storage facilities and operations  General monitoring and inspection to identify any environmental issues of concern, such as non-conformance to the Environmental		✓ ✓	
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations Fuel Management  Environmental Issue Identification	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations  Regular inspection of fuel storage facilities and operations		√ √ √	
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations Fuel Management  Environmental Issue Identification  SOCIO-ECONOMICS	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations  Regular inspection of fuel storage facilities and operations  General monitoring and inspection to identify any environmental issues of concern, such as non-conformance to the Environmental Protection Plan, or the requirement for a new environmental control.		√ √ √	
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations Fuel Management  Environmental Issue Identification  SOCIO-ECONOMICS  Archaeological Resources	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations  Regular inspection of fuel storage facilities and operations  General monitoring and inspection to identify any environmental issues of concern, such as non-conformance to the Environmental Protection Plan, or the requirement for a new environmental control.  Archaeology surveys where ground disturbance activities are proposed, prior to work being conducted		√ √ √	
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations Fuel Management  Environmental Issue Identification  SOCIO-ECONOMICS  Archaeological Resources Human Resources	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations Regular inspection of fuel storage facilities and operations General monitoring and inspection to identify any environmental issues of concern, such as non-conformance to the Environmental Protection Plan, or the requirement for a new environmental control.  Archaeology surveys where ground disturbance activities are proposed, prior to work being conducted Employment duration, turn-over, etc.		<i>V V V V</i>	
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations Fuel Management  Environmental Issue Identification  SOCIO-ECONOMICS  Archaeological Resources Human Resources Skills Inventory of Staff	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations  Regular inspection of fuel storage facilities and operations  General monitoring and inspection to identify any environmental issues of concern, such as non-conformance to the Environmental Protection Plan, or the requirement for a new environmental control.  Archaeology surveys where ground disturbance activities are proposed, prior to work being conducted  Employment duration, turn-over, etc.  Education and skill sets of existing site personnel from local communities		√ √ √ √	
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations Fuel Management  Environmental Issue Identification  SOCIO-ECONOMICS  Archaeological Resources  Human Resources  Skills Inventory of Staff  Training	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations Regular inspection of fuel storage facilities and operations General monitoring and inspection to identify any environmental issues of concern, such as non-conformance to the Environmental Protection Plan, or the requirement for a new environmental control.  Archaeology surveys where ground disturbance activities are proposed, prior to work being conducted Employment duration, turn-over, etc.		√ √ √ √ √	
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations Fuel Management  Environmental Issue Identification  SOCIO-ECONOMICS  Archaeological Resources Human Resources Skills Inventory of Staff Training  REPORTING	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations Regular inspection of fuel storage facilities and operations General monitoring and inspection to identify any environmental issues of concern, such as non-conformance to the Environmental Protection Plan, or the requirement for a new environmental control.  Archaeology surveys where ground disturbance activities are proposed, prior to work being conducted Employment duration, turn-over, etc. Education and skill sets of existing site personnel from local communities Record all training conducted on- and off-site for the project		√ √ √ √ √	
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations Fuel Management Environmental Issue Identification  SOCIO-ECONOMICS Archaeological Resources Human Resources Skills Inventory of Staff Training REPORTING SNP REPORTS	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations  Regular inspection of fuel storage facilities and operations  General monitoring and inspection to identify any environmental issues of concern, such as non-conformance to the Environmental Protection Plan, or the requirement for a new environmental control.  Archaeology surveys where ground disturbance activities are proposed, prior to work being conducted Employment duration, turn-over, etc. Education and skill sets of existing site personnel from local communities  Record all training conducted on- and off-site for the project  Submit Monthly Water License (Surveillance Network Program) Reports		V V V V V V V V V V V V V V V V V V V	
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations Fuel Management  Environmental Issue Identification  SOCIO-ECONOMICS  Archaeological Resources  Human Resources  Skills Inventory of Staff Training  REPORTING  SNP Reports  Borrow Reports	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations Regular inspection of fuel storage facilities and operations General monitoring and inspection to identify any environmental issues of concern, such as non-conformance to the Environmental Protection Plan, or the requirement for a new environmental control.  Archaeology surveys where ground disturbance activities are proposed, prior to work being conducted Employment duration, turn-over, etc. Education and skill sets of existing site personnel from local communities Record all training conducted on- and off-site for the project  Submit Monthly Water License (Surveillance Network Program) Reports Submit Monthly Borrow Reports (QIA and INAC Quarry Authorizations)		/ / / / /	
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations Fuel Management  Environmental Issue Identification  SOCIO-ECONOMICS  Archaeological Resources Human Resources Skills Inventory of Staff Training  REPORTING SNP Reports Borrow Reports BIRB Annual Reports	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations Regular inspection of fuel storage facilities and operations General monitoring and inspection to identify any environmental issues of concern, such as non-conformance to the Environmental Protection Plan, or the requirement for a new environmental control.  Archaeology surveys where ground disturbance activities are proposed, prior to work being conducted Employment duration, turn-over, etc.  Education and skill sets of existing site personnel from local communities Record all training conducted on- and off-site for the project  Submit Monthly Water License (Surveillance Network Program) Reports Submit Monthly Borrow Reports (QIA and INAC Quarry Authorizations) Prepare an annual report that meets the information requirements of the NIRB Screening Decisions		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
On-Site Waste Disposal  OPERATIONS MONITORING  Drilling Operations Fuel Management  Environmental Issue Identification  SOCIO-ECONOMICS  Archaeological Resources  Human Resources  Skills Inventory of Staff Training  REPORTING  SNP Reports  Borrow Reports	Regular visual inspection of temporary waste storage facilities  Landfill Monitoring form  Regular inspection of drill operations Regular inspection of fuel storage facilities and operations General monitoring and inspection to identify any environmental issues of concern, such as non-conformance to the Environmental Protection Plan, or the requirement for a new environmental control.  Archaeology surveys where ground disturbance activities are proposed, prior to work being conducted Employment duration, turn-over, etc. Education and skill sets of existing site personnel from local communities Record all training conducted on- and off-site for the project  Submit Monthly Water License (Surveillance Network Program) Reports Submit Monthly Borrow Reports (QIA and INAC Quarry Authorizations)		/ / / / / / / / /	

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#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

#### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN

#### SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS

		Road	Road Chainage	Water Crossing	Culvert Inv	ert Elevation			Length of C	SP Culverts			Sea	DFO regulated	
later Crossing No.	Culvert No.	Chainage (Design) <sup>(12)</sup>	(Upgraded) <sup>(12)</sup>	Size Classification	Upstream	Downstream	Ø = 1.2 m	Ø = 1.0 m	Ø = 0.5 m	Ø = 0.25 m	Ø = 0.15 m	Ø = 0.10 m	Containers	Water Crossing Modified	Comment from 2009 Tote Road Inspection
		(m)	(m)		(m)	(m)	(m)	(m)	(m)	(m)	(m)*	(m)*		Wodined	
CV183		0+145	A1+023	Extra-Large										Х	Old culvert removed from Water Crossing
CV182		0+480	NA A 1 : 222	Extra-Small											Old culvert removed from Water Crossing
CV181 CV180		0+583 0+796	A1+028 NA	Medium Extra-Small			-							х	Old culvert removed from Water Crossing Old culvert removed from Water Crossing
CV179		1+507	A1+231	Extra-Small	9.254	9.106	1		9						Old culvert removed from water Crossing
CV178		1+776	A1+497	Extra-Small	9.981	9.954		9	Ŭ						
CV177	Α	2+427	A2+138	Extra-Small	50.929	50.413					20.9				US/DS ends damaged and partially buried
	В	2+427	A2+138		50.950	50.418					20.3				
CV176 <sup>(2)</sup>		2+638	A2+349	Small	51.346	51.023		10.8							
CV175 <sup>(7)</sup>		2+867	A2+578	Extra-Small	55.000	55.007									
CV174		3+734	A3+429 A3+877	Extra-Small Additional	55.682 51.303	55.397 51.132			9		11.0	-	ł	-	
Additional <sup>(7)</sup> Additional			A3+987	Additional	50.882	50.728	1				10.3				US/DS ends damaged and partially buried
CV173 <sup>(3)</sup>		4+425	A4+181	Extra-Small	54.044	53.705			12.2		10.0				Corpo ondo damagos ana partially banca
CV173 CV172 <sup>(6)</sup>		4+722	NA	Extra-Small											
CV171		4+867	A4+582	Extra-Small	52.543	52.031					11.0				
CV170		5+267	A4+984	Small	45.630	45.038		12							
CV169		5+427	A5+149	Extra-Small	46.834	46.541	1		9		ļ	ļ			
CV168 <sup>(6)</sup>		5+882	NA AF (672	Extra-Small	40.500	47.004	-		45.4	1	1	1			
CV167 <sup>(3)</sup>	A	5+960 6+056	A5+673 A5+770	Extra-Small Small	48.592 44.239	47.364 43.910	₩	15.3	15.1	-	<b> </b>	<del> </del>		<b> </b>	
CV166 <sup>(3)</sup>	B	6+056	A5+770 A5+770	SIIIaii	44.239	43.910	#	15.3	15.3	t	1	1		<del> </del>	
CV165 <sup>(4)</sup>		7+038	A6+746	Small	43.725	42.568	22.1		10.0						
CV164		7+299	A6+999	Extra-Small	56.994	56.135			18						
Additional			A7+249	Additional	52.511	52.357					10.8				
CV163 <sup>(6)</sup>		7+832	NA	Extra-Small											
CV162 <sup>(2)</sup>		7+922	A7+625	Extra-Small	43.897	43.569		9.5							US end damaged
CV161 <sup>(2)</sup>		8+230	A7+928	Extra-Small	40.280	39.643			9.9						
CV159		8+407	A8+100	Extra-Small	25.564	25.293		12	40			ļ			110
CV158	A B	8+648 8+648	A8+345 A8+347	Extra-Small	33.423 34.004	32.814 31.212			12 18		1	-	ł	-	US end damaged
CV157	A	8+960	A8+657	Small	37.359	37.018		12	10						
01107	В	8+960	A8+662	Cirian	37.357	37.315			12						Partially buried
CV156 <sup>(6)</sup>		9+223	A8+903	Extra-Small											, , , , , , , , , , , , , , , , , , , ,
CV155	Α	9+328	A8+997	Extra-Small	37.418	36.466				12					
	В	9+328	A9+003		37.821	37.214					13.7				
(7)	С	9+328	A9+003	A 1.122 1	37.815	37.353			40		13.7				
Additional <sup>(7)</sup> CV154	A	9+570	A9+145 A9+241	Additional Small	33.294 30.500	32.947 30.154	<b> </b>		12 15	1	1				
CV 154	B	9+570	A9+241 A9+249	Small	30.500	30.154	1	15	15						
CV153	Ā	10+218	A9+892	Small	37.332	37.287	1	10	12						Some of US/DS ends damaged but functional
	В	10+218	A9+848		37.510	37.224			12						
	С	10+218	A9+849		37.518	37.400			12						
	D	10+218	A9+850		37.511	37.382			12						
0)//=0	F. <sup>(7)</sup>	10+218	NA			L	<b> </b>		NA						Culvert ends buried and not functional
CV152	A B	10+280 10+280	A9+950 A9+939	Small	42.678 42.719	41.147 41.060	₩	<del>                                     </del>	22 22	1	<del>                                     </del>	1	l	<del> </del>	Some of US/DS ends damaged but functional
	С	10+280	A9+939 A9+940		42.719	41.060	╂	-	22	1	<del> </del>	<del>                                     </del>		<b>-</b>	
	D	10+280	A9+940 A9+941		42.753	41.183	1	l	22	<del> </del>	1	1	l	t	
	Ē	10+280	A9+943		42.807	41.164		İ	22	İ	i e			1	
CV151	Α	10+460	A10+127	Small	62.772	62.251			12	1	İ				DS end buried
	В	10+460	A10+102		62.789	62.307			12						
CV150	Α	10+507	A10+125	Extra-Small	63.131	62.515	1		12		ļ	ļ			
A 4 422 1	В	10+507	A10+127	A 1.000 1	63.216	62.499			12	1	<b></b>	<b>.</b>			
Additional Additional		<b> </b>	A10+441 A10+609	Additional Additional	61.044 62.864	60.704 62.684	₩	<b>!</b>	12	12	1	<del>                                     </del>		<del>                                     </del>	DS end close to road edge
CV149		10+954	A10+609 A10+623	Extra-Small	62.864	61.896	╂	-	-	12	<del> </del>	<del>                                     </del>		<b>-</b>	DS end close to road edge  DS end buried
CV149 CV148 <sup>(7)</sup>	A	11+180	A10+846	Extra-Small	66.098	65.793	1	1		12	<del> </del>	<del> </del>		<del> </del>	DS end bulled
CV 146	B	11+180	A10+847	Extra-Official	66.004	65.828	1	1		12	1	1			
CV147 <sup>(6)</sup>		1	A10+840					İ		†	i e			1	
CV146	Α	11+348	A11+014	Small	66.383	66.259			12						
	В	11+348	A11+017		66.446	66.226			12						
	С	11+348	A11+019		66.487	66.059	1		12						

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		Road	Road Chainage	Water Crossing	Culvert Inv	ert Elevation			Length of C	SP Culverts			Sea	DFO regulated	
Vater Crossing No.	Culvert No.	Chainage	(Upgraded) <sup>(12)</sup>	Size Classification	Upstream	Downstream	Ø = 1.2 m	Ø = 1.0 m	Ø = 0.5 m	Ø = 0.25 m	Ø = 0.15 m	Ø = 0.10 m	Containers	Water Crossing	Comment from 2009 Tote Road Inspection
		(Design) <sup>(12)</sup> (m)		Classification	(m)	(m)	(m)	(m)	(m)	(m)	(m)*	(m)*		Modified	
	D	11+348	(m) A11+018		66.410	66.225	(,	(,	12	(,	()	(,			
	E	11+348	A11+017		66.437	66.205			12						
CV145 <sup>(6)</sup>		11+208	NA	Extra-Small											
CV144		12+205	A11+856	Extra-Small	83.517	83.426			9						
CV143 <sup>(6)</sup>		12+236	NA	Extra-Small											
CV142 <sup>(6)</sup> CV141 <sup>(6)</sup>		12+266 12+453	NA NA	Extra-Small Extra-Small			-								
CV141 <sup>(6)</sup>		12+501	NA NA	Extra-Small			1								
CV139 <sup>(6)</sup>		12+679	NA	Extra-Small											
CV138 <sup>(6)</sup>		12+784	NA	Extra-Small											
CV137 Additional		13+042	A12+704 A12+848	Extra-Small Additional	95.660 97.386	95.099 96.482	-			12 9					Ends partially buried and damaged
CV136		13+425	A12+646 A13+093	Extra-Small	91.811	91.227	1			18					Ends partially buried and damaged
CV135		13+675	A13+327	Extra-Small	90.799	90.455				12					Ends partially buried and damaged
CV134 <sup>(7)</sup>		14+014	A13+674	Extra-Small	81.258	80.464				12					
Additional			A13+749	Additional	79.198	78.542			12						
Additional CV133		14+201	A13+851 A13+859	Additional	79.064 78.806	78.526 78.240	-			12 12					
Additional		14+201	A13+859 A13+953	Extra-Small Additional	78.806	78.240 77.844	1			9	1	1			
Additional			A14+189	Additional	79.649	79.390			12	- ŭ					
Additional 09	Α		A14+352	Additional	NA	NA				12*					
(4)	В		A14+352		NA	NA				12*					
CV132 <sup>(6)</sup>		14+625 14+709	NA A14+370	Extra-Small Extra-Small	NA	NA	-			18*					
CV131 <sup>(3)</sup> CV195		15+008	A14+666	Extra-Small	79.587	79.506	1			18					
CV130		15+202	A14+871	Extra-Small	79.121	78.794				18					
CV129		15+650	A15+310	Large	78.11	77.92	18								
CV196 <sup>(6)</sup>		15+839	NA	Extra-Small											
Extra-01		17+020 17+486	A16+807	2 Unclassified	75.869	75.613	ļ		12						
CV128 CV127 <sup>(6)</sup>		17+486	A17+117 NA	Extra-Large Extra-Small			ł						20		
CV127		19+243	A18+724	Extra-Small	76.968	76.740	1		12		1				DS end damaged
CV125	Α	20+447	A19+945	Small	78.560	78.505			15						
	B <sup>(3)</sup>	20+447	A19+929		78.095	77.862		15							
CV124		20+626	A20+119	Extra-Small	80.254	80.242			9						110
Additional CV123	A	21+399	A20+509 A20+891	Additional Extra-Small	83.248 82.803	83.165 82.440	ł		12	9	-				US end damaged
CV123	B	21+399	A20+892	LXIIa-Siliali	82.888	82.442			12						
Additional	_		A21+178	Additional	81.687	81.286		12							
CV122 <sup>(6)</sup>		21+949	NA	Extra-Small											
Additional			A21+808	Additional	90.365	90.344			12						
Additional			A22+330	Additional	96.351	96.011			9						Small amount of backfill material on top of culvert, US/DS ends buried
CV121 <sup>(6)</sup>		23+199	NA	Extra-Small											CO/DO CHOS DUNCO
Additional			A22+764	Additional	95.655	95.487				6					DS end buried
Additional			A22+900	Additional	91.824	91.377			9						
CV120	A	23+515	A23+002	Small	86.756	86.721 86.793	ļ		18						
	B C	23+515 23+515	A23+012 A23+013		86.803 86.728	86.793	1		18 18						
	D	23+515	A23+018		86.547	86.505	1	18	10						
CV119	,	24+264	A23+756	Small	97.055	96.345		15							
Additional 09			A24+446	Additional	104.270	103.758					11.8				
Additional <sup>(7)</sup>			A24+470	Additional	104.389	104.070	ļ					7.6			
Additional CV197 <sup>(7)</sup>		25+633	A25+060 A25+133	Additional Extra-Small	105.052 105.959	104.740 105.830	<del> </del>		9		7.5			-	
Additional	Α	231003	A25+155 A25+257	Additional	106.198	105.926	1				7.4	<b> </b>			US/DS ends buried
, toditorial	В		A25+258		106.239	105.812					7.3				50.55 0.10 50.100
CV118 <sup>(6)</sup>		25+878	NA	Extra-Small											
Additional 09			A25+317	Additional	105.888	105.784				12.4					
Additional		26+444	A25+740 A25+939	Additional	104.724 105.597	104.470 105.525	<del> </del>	ļ		12.2	0.2			<b>!</b>	Water Crossing modified after October 2008
CV198 <sup>(7)</sup> CV199 <sup>(6)</sup>		26+444	A25+939 NA	Extra-Small Extra-Small	105.597	105.525	<del> </del>				9.3			-	
Additional	A	20,000	A26+248	Additional	107.397	107.074	1	<del>                                     </del>		l .	10.3	<del> </del>		<del>                                     </del>	1

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#### SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS

		Road	Road Chainage	Water Crossing	Culvert Inv	ert Elevation			Length of C	SP Culverts			Sea	DFO regulated	
Nater Crossing No.	Culvert No.	Chainage	(Upgraded) <sup>(12)</sup>	Size Classification	Upstream	Downstream	Ø = 1.2 m	Ø = 1.0 m	Ø = 0.5 m	Ø = 0.25 m	Ø = 0.15 m	Ø = 0.10 m	Containers	Water Crossing	Comment from 2009 Tote Road Inspection
		(Design) <sup>(12)</sup> (m)		Classification	(m)	(m)	(m)	(m)	(m)	(m)	(m)*	(m)*		Modified	
	В	(111)	(m) A26+248		107.335	107.067	(,	(,	(,	(,	10.4	(,			
CV117	A	27+073	A26+584	Small	107.335	107.067	1	12			10.4				
01111	В	27+073	A26+581	Citian	104.161	103.781			12						
CV116		27+388	A26+890	Extra-Small	102.865	102.834			12						
CV115	A	27+686	A27+193	Small	104.408	104.380			15						
	В	27+686	A27+200		104.004	103.973		15							
Additional		20.020	A28+244	Additional	108.049	107.639	-		12						
CV200 <sup>(6)</sup> Additional 09		28+938	NA A28+325	Extra-Small Additional	107.642	107.403	1				11.6				
Additional			A28+573	Additional	110.846	110.412	-		9		11.0				
CV114		29+647	A29+151	Medium	106.904	106.247		15							
Additional			A29+223	Additional	109.075	108.752			9						
Additional			A29+447	Additional	111.172	110.546					10.4				DS end buried
Additional			A29+632	Additional	112.058	111.648			9						
CV201	A	30+483	A29+982 A30+157	Extra-Small	112.606 113.243	112.265 112.746	1	1	9						
CV113	B B	30+655 30+655	A30+157 A30+153	Small	113.243 113.573	112.746 112.878	1	<del> </del>	15 15			<b>H</b>	-		
	C	30+655	A30+153		113.713	112.950	1	<b>-</b>	12	1	<u> </u>				
	D	30+655	A30+155		113.765	112.911	1	i	15						
Additional 09			A30+565	Additional	110.318	110.086				12.4					
			A30+565		110.411	110.056				12.4					
Additional <sup>(7)</sup>			A30+587	Additional	110.397	109.926					10.3				
CV112	A	31+450	A30+947	Small	112.797	112.427	15								
A 1.190 1	В	31+450	A30+951	A 1.00 1	113.029	112.580			15						
Additional CV111		31+990	A31+410 A31+489	Additional Medium	118.084 115.851	117.551 115.017	-	18	12						
CV111		32+220	A31+726	Extra-Small	117.920	117.546	-	10	12						
Additional		021220	A31+855	Additional	117.084	116.540	1		9		1				
CV109 <sup>(6)</sup>		32+441	NA	Extra-Small											
CV108		32+513	A31+994	Extra-Small	115.167	114.964			9						Sign of bank erosion
Additional 09			A32+047	Additional	115.252	114.563					11.4				
Additional 09			A32+134	Additional	114.045	112.990					15.0				
Additional CV202		32+825	A32+266 A32+336	Additional Small	110.478 109.116	110.351 108.708	-	15	12						
CV202 CV107		32+825	A32+601	Extra-Small	111.293	111.198	ł	15	9		-				
CV107		33+170	A32+681	Small	112.791	112.460	-	15	9						
CV105		33+307	A32+818	Extra-Small	113.481	113.198					12.4				
CV104	Α	33+794	A33+301	Medium	112.917	112.325	15								
	В	33+794	A33+307		112.713	112.152	15								
CV203	Α	34+153	A33+665	Small	115.344	114.653		12							
	В		A33+781		109.860	109.599			12						
Additional	C		A33+782 A34+039	Additional	109.800 110.704	109.604 110.650			12		13.2				
Additional	A B		A34+040	Additional	110.746	110.668	1				13.6				
Additional			A34+277	Additional	112.677	112.192	1				14.0				
CV204		35+154	A34+650	Extra-Small	113.952	113.656					12.5				
Additional 09			A35+102	Additional	110.462	110.046				12.5					
Additional			A35+217	Additional	111.556	111.394	1		9						
Additional		05.005	A35+286	Additional	111.971	111.722	l				10.5				
CV103 CV102	^	35+885 36+028	A35+383 A35+540	Extra-Small	110.650 113.063	110.301 112.454	1	15	8.2	1	1	<b> </b>			
CV 102	A B	36+028 36+028	A35+540 A35+543	Small	113.063 113.065	112.454 112.759	1	15	15			<b>H</b>	-		
	C	36+028	A35+544		113.036	112.771	1	<b> </b>	15						
	D	36+028	A35+545		113.026	112.734	1	i	15			i			
CV101		36+954	A36+469	Extra-Small	114.755	114.590		1	9						
CV100 <sup>(6)</sup>		37+052	NA	Extra-Small											
CV099	Α	37+840	A37+351	Large	119.76	119.31	18								
	В	37+840	A37+343		120.12	119.61	21								
	С	37+840	A37+346		120.14	119.77	21		40		<b>.</b>				
	D E	37+840 37+840	A37+354 A37+355	-	121.09 121.11	121.12 121.06	<del> </del>		12 12						
	E(3)	37+840	A37+355 A37+360		121.11 NA	121.06 NA	1	18	12						

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		Road	Road Chainage	Water Crossing	Culvert Inve	ert Elevation			Length of C	SP Culverts			Sea	DFO regulated	
Water Crossing No.	Culvert No.	Chainage (Design) <sup>(12)</sup>	(Upgraded) <sup>(12)</sup>	Size Classification	Upstream	Downstream	Ø = 1.2 m	Ø = 1.0 m	Ø = 0.5 m	Ø = 0.25 m	Ø = 0.15 m		Containers	Water Crossing Modified	Comment from 2009 Tote Road Inspection
		(m)	(m)		(m)	(m)	(m)	(m)	(m)	(m)	(m)*	(m)*		Wodilica	
CV098	Α	38+525	A38+034	Medium	139.122	139.115		15							
	B <sup>(7)</sup>	38+525	NA						NA						Culvert ends buried and not functional
Additional			A38+188	Additional	140.867	140.783			9						
CV097 Additional		39+028	A38+542 A40+008	Extra-Small Additional	146.456 161.623	146.402 161.061	ļ		12		11.7				
CV096 <sup>(6)</sup>		40+967	NA	Extra-Small	101.023	101.001					11.7				
Additional	A <sup>(7)</sup>	401307	A40+522	Additional	146.216	145.394	1				11.1				
7 taditional	B		A40+522	7 taditional	146.129	145.393					11.0				
CV095 <sup>(6)</sup>		41+100	NA	Extra-Small										1	
Additional			A40+675	Additional	142.555	141.634					12.4				
CV094	A	41+613	A41+112	Large	140.464	139.437	18								
	B <sup>(3)</sup>	41+613	A41+112		141.756	140.986		15.2							
CV093	A	42+216	A41+711	Small	148.080	147.998	1	12	40						Colored and busined and antifunctional
Additional	B <sup>(7)</sup>	42+216	A41+698 A42+274	Additional	148.644 150.008	148.311 149.429			12		11.2				Culvert ends buried and not functional
CV092 & CV091	A	42+949	A42+445	Medium	147.337	147.048	1	12			11.2			1	
CV092 & CV091	B	42+949	A42+445	wedidiii	147.720	147.578	1	12			1				
	C	42+949	A42+445	1	147.728	147.631	l	12		İ		İ		1	
CV205 <sup>(6)</sup>		43+871	NA	Extra-Small						İ		İ			
CV090	Α	44+832	A44+351	Small	168.190	167.940		12					_		
	В	44+832	A44+366		168.500	168.314			12						
CV089 <sup>(6)</sup>		45+016	NA	Extra-Small											
CV088		45+991	A45+506	Extra-Small	169.559	169.266	40	9							
CV087	A B	46+223 46+223	A45+741 A45+737	Medium	168.080 168.085	167.836 167.832	12 12								
	С	46+223	A45+752		168.773	168.306	12		12		1			1	
CV086 <sup>(3)</sup>	U	46+300	A45+805	Small	169.743	169.452		18	12						
CV085		46+422	A45+933	Small	165.472	164.747	1	15							
Additional 09			A46+443	Additional	150.791	150.778				12.2					
CV084		47+045	A46+563	Extra-Small	169.910	169.569			12						
CV083		47+643	A47+169	Small	175.054	174.776		12							
CV206 <sup>(6)</sup>		49+031	NA	Extra-Small											
Additional		40.055	A49+014	Additional	174.820	174.817	40				11.2				
CV082	A B	49+655 49+655	A49+167 A49+173	Small	173.216 173.120	173.026 173.068	12		40						Culvert partially buried
	C	49+655	A49+175		173.120	173.092	1		12 12		1			1	
CV081 <sup>(6)</sup>	Ŭ	49+792	NA NA	Extra-Small	170.141	170.002	1		- 12						
CV080	Α	49+929	A49+436	Extra-Small	178.179	177.841				12.3					Water Crossing installed after October 2008
	В		A49+436		178.178	177.714				12.3				1	<u>,</u>
CV079 <sup>(3)</sup>	Α	50+600	A50+060	Large	148.954	148.864	15.2								
	В	50+600	A50+063		148.602	148.493	15.3								
	C		A50+225		165.903	165.783					14.7				
	D E	1	A50+226		166.760	165.937	╂	1	18.4	1	14.8	1		1	
	F	-	A50+112 A50+157	<b> </b>	149.067 148.770	148.332 148.590	<b> </b>	-	18.4	-	1	-		<b>-</b>	-
	G	1	A50+231	-	147.936	148.631	1	18.2	10.3	<b> </b>		<b> </b>		<b>-</b>	
	H	1	A50+268	<b> </b>	147.883	147.272	1	18.1		<del> </del>	<u> </u>	<del> </del>			
	i		A50+270		147.814	147.441	1	18							
	J		A50+290		147.715	147.597		12.2							
	K		A50+306		147.880	147.506	17.8						_		
CV207 <sup>(8)</sup>		50+762	NA	Extra-Small			I								
CV078	Α (2)	51+171	A50+680	Large	165.786	165.702	15	10.1							
	B <sup>(3)</sup>	51+171	A50+657		149.271	148.980	╂	12.1		1	1	1		<b>!</b>	
	C <sup>(3)</sup>	51+171 51+171	A50+668 A50+670	<b></b>	148.785 148.849	148.463 148.585	<b> </b>	18.2 18.1		-	1	-		<b>-</b>	-
Additional	D'-7	3141/1	A51+126	Additional	171.914	171.666	1	10.1		1	11.1	1		t e	1
CV077	<b>†</b>	52+091	A51+602	Extra-Small	165.55	165.23	1	15		<del> </del>		<del> </del>		i e	
CV076		53+028	A52+536	Small	159.361	159.335	1	15						1	
CV075	Α	53+337	A52+842	Small	160.575	160.301	i		12						
	В	53+337	A52+829		160.664	160.502			12						
	С	53+337	A52+830		160.698	160.542			12						
	D	53+337	A52+831		160.526	160.273	<b> </b>		12						
A 1.122	E	53+337	A52+832	A 4.000	160.806	160.670	₩		12		4				
Additional		ll	A52+937	Additional	159.873	159.334	U				11.2			I	II.



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#### SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS

		Road	Road Chainage	Water Crossing	Culvert Inv	ert Elevation			Length of C	SP Culverts			Sea	DFO regulated	
Vater Crossing No.	Culvert No.	Chainage (Design) <sup>(12)</sup>	(Upgraded) <sup>(12)</sup>	Size Classification	Upstream	Downstream	Ø = 1.2 m	Ø = 1.0 m	Ø = 0.5 m	Ø = 0.25 m	Ø = 0.15 m	Ø = 0.10 m	Containers	Water Crossing	Comment from 2009 Tote Road Inspection
		(m)	(m)		(m)	(m)	(m)	(m)	(m)	(m)	(m)*	(m)*		Modified	
Additional 09			A53+155	Additional	143.726	143.436			12.3						
CV074	Α	53+764	A53+266	Extra-Small	143.981	143.561			15.1						Water Crossing installed after October 2008
	В		A53+266		143.959	143.634			15.3						
CV073 <sup>(6)</sup>	(2)	53+842	NA	Extra-Small		101.00									
CV072	A <sup>(3)</sup>	53+878 53+878	A53+343 A53+345	Large	161.71 161.69	161.28 161.45	15 15								
	B C	53+878	A53+345 A53+379		161.140	160.600	15								
Additional 09		331070	A53+435	Additional	NA	NA	15			1	11*				
CV071		54+144	A53+646	Extra-Small	165.856	165.193					10.9				
CV070 <sup>(6)</sup>		54+173	NA	Extra-Small											
CV069 <sup>(6)</sup>		54+669	NA	Extra-Small											
CV068 <sup>(6)</sup>		54+861	NA	Extra-Small			ļ								
CV067 <sup>(6)</sup>		55+197 55+383	NA NA	Extra-Small Extra-Small			l								
CV066 <sup>(6)</sup> CV065 <sup>(6)</sup>		55+401	NA NA	Extra-Small			-								
CV064		55+469	A54+956	Extra-Small	175.192	175.014					11.1				
CV063 <sup>(6)</sup>		55+524	NA	Extra-Small											
CV062 <sup>(6)</sup>		55+692	NA	Extra-Small									_		
Additional <sup>(7)</sup>			A55+222	Additional	174.395	174.017	<b></b>				11.1				
Additional		<b> </b>	A55+307 A56+280	Additional Additional	172.376 168.452	172.001 168.127	1	1	15.4	1	13.1	<del> </del>			
Additional Additional			A56+280 A56+997	Additional	168.452	168.127	l		15.4						
CV061 <sup>(6)</sup>		57+761	NA	Extra-Small	104.511	104.271	1		12.3						
Additional		37.701	A57+773	Additional	158.890	158.549					11.3				
Additional			A57+774	Additional	158.887	158.526					11.1				
Additional			A57+995	Additional	159.491	159.332					11.0				
CV060	A	58+856	A58+114	Medium	158.533	158.478		15							
01/070	В	58+856	A58+114		158.669	158.739		15							
CV059	A B	59+960 59+960	A59+217 A59+216	Small	160.749 160.688	160.456 160.301	-		12 12						
	C	59+960	A59+216 A59+217		160.688	160.301	l		12						
	D	59+960	A59+218		160.763	160.485	-		12						
CV058	A	60+523	A59+779	Small	161.044	160.434			18						
	В	60+523	A59+773		160.840	160.335	18								
CV057	A	60+712	A59+970	Small	161.854	161.682			15						
	В	60+712	A59+966		161.975	161.884			15						
(7)	С	60+712	A59+967	A 4.000 1	162.011	161.871	ļ		15		44.0				
Additional <sup>(7)</sup> CV056		61+810	A61+052 A61+050	Additional Extra-Small	165.415 148.100	165.075 147.798	l			12.5	11.0				Water Crossing installed after October 200
CV055		61+904	A61+155	Extra-Small	162.493	161.945	-			12.3					Water Crossing installed after October 200 Water Crossing installed after October 200
CV054		62+018	A61+262	Extra-Small	162.649	161.902	1			18.5					Water Crossing installed after October 201
CV053 <sup>(6)</sup>		62+117	NA	Extra-Small											
CV052 <sup>(6)</sup>		62+332	NA	Extra-Small											
CV051 <sup>(6)</sup>		62+390	NA	Extra-Small		ļ	1								
CV050 <sup>(6)</sup>		62+495	NA A O A I O O O	Extra-Small	110.000	110.101	<b> </b>			<b>.</b>	44.0	1			
Additional <sup>(7)</sup> BG50	A (3)	62+804	A61+929 A62+079	Additional Extra-Large	148.329 142.436	148.194 141.949	18	<del>                                     </del>	-	1	11.0	<del> </del>		1	
DUUU	A <sup>(3)</sup> B	62+804	A62+079 A62+081	Extra-Large	142.436	141.757	18	1	<del> </del>	1	<del> </del>	1		1	
	C(3)	62+804	A62+054		174.000	171.131	10	<del> </del>	1	<b>I</b>	1	1	13	ł – – – – – – – – – – – – – – – – – – –	
CV049	A	63+302	A62+550	Large	147.410	147.044	15	İ				İ		х	Water Crossing modified after October 200
	В	63+302	A62+536		147.680	147.388	15								
	С		A62+530		NA	NA			12*						
	D		A62+530		NA	NA	<b> </b>		12*						Culverts installed as overflow
	E	<b> </b>	A62+530		NA NA	NA NA	1	1	12*	1		<del> </del>			
CV048	F A	64+312	A62+530 A63+560	Large	NA 185.224	NA 185.177	15		12*	-		<b> </b>			
CVU40	B	64+312	A63+554	Large	185.224	185.365	15	1		1		1		1	
CV208 <sup>(6)</sup>	ь	64+672	NA	Extra-Small	100.000	100.000	13			<del>                                     </del>		1		1	
CV208 <sup>-6</sup>		64+847	NA NA	Extra-Small			1	İ				İ			
Additional <sup>(7)</sup>			A65+378	Additional	229.495	229.119					10.8	İ			
CV047	Α	66+426	A65+681	Medium	231.882	230.989	15								
	В	66+426	A65+682		232.153	231.293	15								
CV046	Α	66+490	A65+747	Small	233.200	232.542		1	15			1			<u> </u>

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#### SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS

		Road	Road Chainage	Water Crossing	Culvert Inv	ert Elevation			Length of C	SP Culverts			Sea	DFO regulated	
Vater Crossing No.	Culvert No.	Chainage (Design) <sup>(12)</sup>	(Upgraded) <sup>(12)</sup>	Size Classification	Upstream	Downstream	Ø = 1.2 m	Ø = 1.0 m	Ø = 0.5 m	Ø = 0.25 m	Ø = 0.15 m	Ø = 0.10 m	Containers	Water Crossing	Comment from 2009 Tote Road Inspection
		(Design)	(m)	Classification	(m)	(m)	(m)	(m)	(m)	(m)	(m)*	(m)*		Modified	
	В	66+490	A65+738		232.968	232.170	1		15						
	C	66+490	A65+739		233.052	232.057		15							
	D	66+490	A65+740		233.066	232.277			15						
(6)	E	66+490	A65+741	E 1 0	233.187	232.442			15						
CV045 <sup>(6)</sup> CV044		66+873 67+036	NA A66+279	Extra-Small Extra-Small	265.731	265.454	ł		12.3						Water Crossing installed after October 2008
CV044	A	67+469	A66+729	Small	290.256	289.760		15	12.3						Water Grossing installed after October 2000
	В	67+469	A66+736		290.437	289.793			15						
	С	67+469	A66+737		290.541	289.849			15						
CV042 <sup>(6)</sup>		69+294	NA Tab	Extra-Small											
CV041 Additional 09		69+369	A68+796 A69+866	Extra-Small Additional	325.612 311.048	325.414 310.649					11.1 11.6				
Additional		-	A70+613	Additional	289.327	289.096	1				9.5				
Additional 09	Α		A71+090	Additional	276.201	276.023					15.1				
	В		A71+090		276.200	276.008					15.0				
Additional			A71+271	Additional	272.037	271.758					11.1		-		
Additional 09		74 : 074	A71+624	Additional	256.776	256.369	ļ			12.5	0.1			ļ	
CV210 Additional 09		71+871	A71+718 A71+778	Extra-Small Additional	254.154 NA	254.030 252.020	1			12.5*	9.1			<b></b>	
Additional 09		-	A71+778 A71+921	Additional	247.845	247.538	1			12.3				<del>                                     </del>	
Additional			A71+926	Additional	247.623	246.682	1	İ			15.8				
CV040	Α	72+263	A72+062	Large	235.43	235.24	15								
	В	72+263	A72+051		235.45	235.03	15								
-	C <sup>(3)</sup>	72+263	A72+090		236.306	235.960	12.2								
Additional <sup>(7)</sup>			A72+083 A72+084	Additional Additional	235.69 236.14	236.12 235.71	-				11.0				
Additional <sup>(7)</sup> CV039		72+845	A72+084 A72+637	Extra-Small	244.400	235.71	ł				11.1 11.1	-			
CV038	В	721043	A72+731	Extra-Small	243.296	242.877	-			12.4	11.1				Water Crossing modified after October 2008
	A	72+943	A72+734		243.210	243.111					11.0				
Additional			A72+815	Additional	243.409	243.113					11.0				
Additional			A72+858	Additional	243.301	243.102					11.8				
CV037		73+105	A72+896	Extra-Small	243.789	243.457	-				10.9				
CV036 <sup>(6)</sup> Additional 09		73+351	NA A73+072	Extra-Small Additional	_	239.559	ł				9.0*	-			
Additional 09			A73+144	Additional	239.809	239.472	-				15.3				
Additional			A73+414	Additional	223.873	223.726					15.1				
CV211 <sup>(6)</sup>		73+779	NA	Extra-Small											
CV212	C(3)		A74+242	Extra-Small	NA	NA		12*							
	A	74+410	A74+249		209.924	209.598					11.1				
Additional	В	74+410	A74+251 A74+468	Additional	209.986 198.526	209.465 198.026	l				11.1 11.1				
Additional		-	A74+469	Additional	198.535	197.951	1				11.1				
Additional			A74+481	Additional	198.876	198.493					12.9				
Additional 09			A74+482	Additional	199.327	197.832		11.9							
Additional <sup>(7)</sup>			A74+484	Additional	198.689	198.106					12.4		_		
Additional <sup>(7)</sup>		75.700	A74+485	Additional	198.695	198.105	1				12.5				
CV033 Additional		75+783	A75+637 A76+360	Extra-Small Additional	212.488 168.469	212.218 168.064	1	1			14.1 11.2	1		<u> </u>	
Additional		-	A76+360 A76+361	Additional	168.469	167.864	1				11.2			<del>                                     </del>	
Additional		-	A76+508	Additional	156.076	155.671	1		12						
BG33		77+025	A76+996	Extra-Small	147.771	147.399			15						
CV031 <sup>(6)</sup>		77+219	NA	Extra-Small									_		
CV032 <sup>(6)</sup>		77+343	NA	Extra-Small			ļ								
CV030	A	77+506	A77+459 A77+435	Small	143.855 144.052	143.698 143.825	1	15	15			1		<u> </u>	
BG32	B A	77+506 78+161	A77+435 A78+123	Large	144.052	143.825	15	-	15			1		<b>-</b>	
5002	B	78+161	A78+130	Large	141.134	141.023	15	<b>-</b>		1	1				
CV213 <sup>(6)</sup>		78+401	NA NA	Extra-Small			1	İ				1		Ī	
Additional			A78+408	Additional	144.209	143.955				15					
CV214		78+877	A78+837	Extra-Small	142.954	142.410			12						
Additional CV215	A	79+572	A79+073 A79+523	Additional Small	144.147	144.016	1		40	12					
				- amaii	142.714	142.590	11		12		1			•	Ï

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#### SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS

		Road	Road Chainage	Water Crossing	Culvert Inv	ert Elevation			Length of C	SP Culverts			Sea	DFO regulated	
Nater Crossing No.	Culvert No.	Chainage (Design) <sup>(12)</sup>	(Upgraded) <sup>(12)</sup>	Size Classification	Upstream	Downstream	Ø = 1.2 m	Ø = 1.0 m	Ø = 0.5 m	Ø = 0.25 m	Ø = 0.15 m	Ø = 0.10 m	Containers	Water Crossing	Comment from 2009 Tote Road Inspection
		(m)	(m)		(m)	(m)	(m)	(m)	(m)	(m)	(m)*	(m)*		Modified	
	С	79+572	A79+535		142.725	142.587			12						
	D	79+572	A79+536		142.716	142.436			12						
CV217	A	79+915	A79+854	Extra-Large	141.549	141.270	15							х	
	B C	79+915 79+915	A79+831 A79+833		141.452 141.554	141.147 141.218	15 15					1			
	D	79+915	NA NA		141.004	141.210	10						14		Water Crossing modified in 2009
Additional			A80+460	Additional	145.785	145.570					11.2				
CV216	A	80+646	A80+591	Large	142.710	142.656	15								
	B C	80+646 80+646	A80+580 A80+582		143.048 143.057	142.947 142.922	15 15								
Additional		80+646	A80+988	Additional	146.303	146.236	15				10.4				
Additional <sup>(7)</sup>			A81+375	Additional	147.018	146.809				9					
Additional 09			A81+379	Additional	146.467	146.086			12.2						
Additional		00.070	A81+513	Additional	148.032	147.833			10	9					
BG31 Additional		82+076	A82+014 A82+473	Extra-Small Additional	151.687 164.399	150.683 163.945			12	12.5					Water Crossing modified after October 2008
Additional 09			A82+848	Additional	184.330	183.920			12.3	12.5					Water Crossing modified after October 2006
CV023		83+147	A83+094	Small	181.980	181.779		12							
Additional 09			A83+530	Additional	NA	NA					12*				
Additional			A84+005	Additional	163.422	163.311					8.4				
Additional Additional			A84+128 A84+166	Additional Additional	161.884 161.681	161.739 161.458					9.0 9.1				
BG30		84+636	A84+537	Small	155.219	154.188	1	15			9.1				
BG29		84+805	A84+706	Small	151.334	151.288		15							
CV022 <sup>(6)</sup>		85+062	NA	Extra-Small											
CV021		85+079	A84+982	Extra-Small	152.630	152.520			12						
CV020		85+614	A85+513	Extra-Small	163.246	163.183				9					
CV019 <sup>(6)</sup>		85+763 85+813	NA NA	Extra-Small Extra-Small			-			-	-	-			
CV018 <sup>(6)</sup> CV017		85+891	A85+778	Extra-Small	169.872	169.735	1			9	1	1			
BG28	В		A86+132	Extra-Small	159.543	158.815					11.8				Water Crossing modified after October 2008
	A	86+263	A86+135		159.345	158.928				9					-
CV016		86+434	A86+327	Extra-Small	160.468	159.993				9					DS end damaged
BG27	A	86+609 86+609	A86+499 A86+493	Small	159.311 159.304	158.534 158.444			18 18						
	B C	86+609	A86+494		159.304	158.411			18						
CV015		86+765	A86+652	Extra-Small	164.217	163.884					11.1				
CV014		86+834	A86+719	Extra-Small	166.637	166.597					8.5				Water Crossing installed after October 2008
CV013 <sup>(6)</sup>		86+934	NA	Extra-Small											
BG26 <sup>(6)</sup>		86+978 87+054	NA A86+944	Extra-Small	157.831	157.788				40.0					Water Consider and Standard and Containing 2000
BG25	C A <sup>(7)</sup>	87+054	A86+945	Extra-Small	157.631	157.705	1			12.3	10.0				Water Crossing modified after October 2008
	B <sup>(7)</sup>	87+054	A86+945		157.621	157.075					10.1				
CV218 <sup>(6)</sup>	Ŭ	87+617	NA	Extra-Small											
BG24	A	87+710	A87+588	Medium	157.422	157.033	15								
	B C	87+710 87+710	A87+610 A87+612	ļ <b>I</b>	157.384 157.591	156.742 156.999	15 15			-	-			l	
	D <sup>(3)</sup>	8/+/10	A87+612 A87+585		157.591	156.999	18.1	1		1	1	1			
BG23 <sup>(6)</sup>	D.	87+784	NA NA	Extra-Small	100.720	107.720	10.1							i	
Additional			A87+955	Additional	160.996	160.699					9.4				
CV012 <sup>(6)</sup>		88+171	NA	Extra-Small											
CV011 <sup>(6)</sup> CV010		88+232 88+316	NA A88+189	Extra-Small Extra-Small	162.231	161.935	1			9		1			
Additional <sup>(7)</sup>		00+310	A88+189 A88+475	Additional	162.231	161.935	1	1		9	14.3	1			
Additional <sup>(7)</sup>			A88+475	Additional	160.630	160.269	1				13.6			l	
Additional			A88+570	Additional	160.605	160.473				9					
CV009 <sup>(6)</sup>		88+896	NA	Extra-Small											
BG22		89+275	A89+151	Extra-Small	170.397	169.674	<b> </b>			9	45.0	ļ			W. 1 . 0
BG21	B A <sup>(7)</sup>	89+415	A89+304 A89+307	Extra-Small	163.581 163.162	162.847 163.108				9	15.3				Water Crossing modified after October 2008
BG20	A\'''	89+415 89+512	A89+307 A89+389	Extra-Small	163.162	162.460	1	1		9		1		<b>-</b>	
CV008		89+696	A89+557	Extra-Small	161.934	161.764				9				i	
BG19		89+815	A89+671	Extra-Small	162.338	162.162	1	Ì		12	İ	İ		Ī	1

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#### SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS

		Road	Road Chainage	Water Crossing	Culvert Inv	ert Elevation			Length of C	SP Culverts			Sea	DFO regulated	
Nater Crossing No.	Culvert No.	(Design) <sup>(12)</sup>	(Upgraded) <sup>(12)</sup>	Size Classification	Upstream	Downstream	Ø = 1.2 m	Ø = 1.0 m	Ø = 0.5 m	Ø = 0.25 m	Ø = 0.15 m	Ø = 0.10 m	Containers	Water Crossing	Comment from 2009 Tote Road Inspection
		(m)	(m)	Olassineation	(m)	(m)	(m)	(m)	(m)	(m)	(m)*	(m)*		Modified	
Additional 09		` ,	A89+780	Additional	161.057	160.711		12.3							
Additional 09			A89+905	Additional	161.409	160.922				15.3					
BG18 <sup>(5)(7)</sup>		90+092	NA	Extra-Small						12					
BG17	A C	90+167	A90+016 A90+017	Large	158.11 159.756	157.80 159.525	15		12.3					Х	Water Crossing modified after October 2008 Culvert installed as overflow
	В	90+167	A90+019		158.00	157.73	15		12.5						Culvert installed as overflow
BG16 <sup>(7)</sup>		90+218	A90+068	Extra-Small	NA	NA			NA						Culvert buried and not functional
BG15		90+331	A90+185	Extra-Small	161.533	160.772				12					
BG14	A	90+389	A90+246	Extra-Small	161.34	160.85				12					Water Crossing modified after October 2008
Additional	В		A90+247 A90+338	Additional	161.252 162.939	161.112 162.458	1			15.3 12	1	1			
CV007		90+670	A90+510	Extra-Small	161.368	161.260				12					
BG13		90+995	A90+846	Extra-Small	161.993	161.598				12					
Additional 09			A90+936	Additional	162.939	NA				10.2*					
CV006 <sup>(6)</sup>		91+092	NA NA	Extra-Small											
BG12 <sup>(6)</sup> CV005 <sup>(6)</sup>		91+394 91+513	NA NA	Extra-Small Extra-Small			1				1	1			
BG11		91+601	A91+430	Extra-Small	172.201	171.593				12			ì	i	
BG10 <sup>(6)</sup>		91+705	NA	Extra-Small											
BG09 <sup>(6)</sup>		91+890	NA	Extra-Small											
CV219		92+093	A91+949	Extra-Small	162.986	162.832					9.9				
CV220 <sup>(6)</sup>		92+207 92+288	NA NA	Extra-Small Extra-Small			1								
CV221 <sup>(6)</sup> BG08		92+514	A92+335	Extra-Small	160.767	160.308				18.3					Water Crossing installed after October 2008
CV004	Α	92+660	A92+477	Extra-Small	162.725	162.425				10.0	9.9				Water Crossing modified after October 2008
	В		A92+486		161.265	160.968				18.3					<u> </u>
CV003 <sup>(6)</sup>		92+908	NA	Extra-Small											
BG07 CV002		93+123 93+199	A92+955 A93+022	Extra-Small Extra-Small	162.453 165.485	161.705 165.298			12.3		9.6				Water Crossing modified after October 2008
Additional 09		93+199	A93+022 A93+439	Additional	163.447	163.217					11.6				
Additional <sup>(7)</sup>			A93+492	Additional	164.790	164.714					11.2				
Additional			A93+782	Additional	167.495	164.429					9.7				
BG04	Α	94+148	A93+992	Medium	163.785	163.648	15								
(2)	В	94+148	A93+993	0	163.570	163.463	15		45.0						
CV001 <sup>(3)</sup>	A B	94+728 94+728	A94+347 A94+349	Small	165.199 165.010	164.878 164.771		15.3	15.2	-	ļ	-	ł		
	C	94+728	A94+350		165.262	164.887		10.0	15.3						
CV222		95+216	A95+073	Extra-Small	166.006	165.736					14.7				Water Crossing installed after October 2008
BG03		95+735	A95+585	Extra-Small	164.307	163.840				18					
BG02 <sup>(6)</sup>		96+041	NA	Extra-Small											
Additional CV223	A	97+155	A96+817 A97+007	Additional Extra-Large	153.743	153.309	-				13.9		16		
CVZZS	B	97+155	A96+981	LXIIa-Laige	151.827	151.314	15			1	1	1	10		
	С	97+155	A96+983		151.792	151.337	15								
	D	97+155	A96+985		151.859	151.313	15								
	<u>E</u>	97+155	A97+072		152.629	152.615	15								
Additional	F	97+155	A97+074 A97+298	Additional	152.784 157.989	152.669 157.819	15				8.8				
CV224	Α	97+758	A97+576	Medium	153.289	153.131		15		1	0.0	1			
	В	97+758	A98+568		153.466	153.317		15							
CV225	Α	98+989	A98+845	Large	NA	NA		15							
(9)	B	98+989	A98+804	Mark	151.682	151.505	18								
BG01 <sup>(3)</sup>	A B	99+672 99+672	A99+479 A99+481	Medium	158.277 157.426	157.905 157.007	18.2 18.1						<b>-</b>	<b></b>	
	C	99+672	A99+481 A99+483		157.426	157.007	18.2	1				1			
Additional 09		00.0.2	A100+126	Additional	172.306	172.114	10.2		12.2				ì	i	
Additional 09			A100+395	Additional	172.646	172.548			12.3						
Additional 09			A100+652	Additional	172.791	172.785	1		18.3						
CV184 <sup>(5)</sup>		101+557	NA NA	Extra-Small		ļ	-			-	-			l	
CV185 <sup>(5)</sup> CV186 <sup>(3)</sup>	A	101+764 102+812	NA A102+584	Extra-Small Small	177.712	177.037	₩	-	15.4		1	<del>                                     </del>	<b>-</b>	<b>-</b>	
CV18b**		102+812	A102+585	Jiliali	177.447	176.477	1	15.1	10.4	1	1	1			<b> </b>
	В														

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#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

#### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN

#### SUMMARY OF AS-BUILT TOTE ROAD CULVERT INSTALLATIONS

Water Crossing No.	Culvert No.	Road	Road Chainage	Water Crossing	Culvert Inve	ert Elevation			Length of C	SP Culverts			Sea	DFO regulated	Comment from 2009 Tote Road Inspection
water Crossing No.	Cuivert No.	Chainage (Design) <sup>(12)</sup>	(Upgraded) <sup>(12)</sup>	Size Classification	Upstream	Downstream	Ø = 1.2 m	Ø = 1.0 m	Ø = 0.5 m	Ø = 0.25 m	Ø = 0.15 m	Ø = 0.10 m	Containers	Water Crossing	Comment from 2009 Tote Road Inspection
		(m)	(m)		(m)	(m)	(m)	(m)	(m)	(m)	(m)*	(m)*		Modified	
CV187 <sup>(3)</sup>	Α	103+078	A102+857	Small	180.25	180.002			21.1						
	В	103+078	A102+858		180.063	179.829		20.5							
CV188 <sup>(9)</sup>		104+701	A104+485	Extra-Small	NA	NA									
CV189 <sup>(9)</sup>		105+342	NA	Extra-Small											
CV190 <sup>(9)</sup>		105+454	A105+230	Extra-Small	NA	NA									
CV191 <sup>(9)</sup>		106+047	A105+845	Extra-Small	NA	NA									
CV192 <sup>(9)</sup>		106+189	NA	Extra-Small											
CV193 <sup>(9)</sup>		106+216	NA	Extra-Small											
CV194 <sup>(9)</sup>		106+430	NA	Extra-Small											
CVD1-1 <sup>(10)</sup>		NA	A105+575	NA				24							
CVD1-2 <sup>(6)</sup>		NA	NA	NA											
CVD1-3 <sup>(10)</sup>		NA	A106+173	NA				24							
CVD1-4 <sup>(10)</sup>		NA	A106+399	NA				18							
CVD1-5 <sup>(10)</sup>		NA	A106+515	NA				18							
CVD1-5B <sup>(10)</sup>		NA	NA	NA				18							
CVD1-6 <sup>(10)</sup>		NA	A106+731	NA				18							
CVD1-7 <sup>(10)</sup>		NA	A107+149	NA				18							
CVD1-8 <sup>(10)</sup>		NA	A107+430	NA				18							
CVD1-9 <sup>(10)</sup>		NA	A107+689	NA				18							
CVD1-10 <sup>(10)</sup>		NA	A108+004	NA				18							
CVD1-11 <sup>(10)</sup>		NA	A108+334	NA				18							
CVD1-12 <sup>(10)</sup>		NA	A108+618	NA				18							
CVD1-13 <sup>(10)</sup>		NA	A108+886	NA				18							
CVD1-14 <sup>(10)</sup>		NA	A109+677	NA				18							
CVSSR-1 <sup>(10)</sup>		NA	A105+916	NA					NA						
CVSSR-2 <sup>(10)</sup>		NA	A106+389	NA					NA						

- Culvert length surveyed by genial. Lengths followed by "\*" were estimated by hand measurement.
- 2. Existing culvert lengthened by adding extension.
- Culvert with survey information updated in 2009 by Genivar.
- 4. Existing culvert crossing unchanged.
- 5. Culvert location not surveyed by Genivar.
- 6. Culvert not installed.
- 7. Culvert not observed during 2009 tote road inspection.
- 8. Crossing cv-207 and cv-079 are located in the same water body (a braided stream).
- 9. Crossings superseded by cvd1 culvert series installed as and where required.
- 10. Culverts not inspected during 2009 tote road inspection because of inaccessibility.
- 11. Information for extra-small crossings obtained from genial survey and/or Knight Piésold construction records.
- 12. The road chainage (design) is the chainage that was included with the design report based on the original tote road alignment. The road chainage (upgraded) reflects the chainage of the upgraded tote road.
- 13. "NA" Indicates no data available.
- 14. "Additional" refers to extra culverts installed in 2007 to October 2008 beyond those identified in the initial design. "additional 09" refers to extra culverts installed after October 2008 beyond those identified in the initial design, and documented during the 2009 Tote Road inspection.
- 15. "DFO regulated water crossing modified" refers to do regulated water crossings that were modified after October 2008, as documented during the 2009 Tote Road inspection.

  16. "Comment from 2009 tote road inspection" refers to observations made during 2009 Tote Road inspection.

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#### BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

#### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN

#### WATER QUALITY AND QUANTITY MONITORING LOCATIONS

Monitoring Location	Description	UTM Coordin Easting	Northing	Parameters	Maximum Amount/ Average Concentration	Maximum Grab Concentration	Sampling Frequency	Monitoring and Reporting	Reporting Frequency
ID MRY-1	Water Supply for the Mary River Camp at Camp Lake	(m) 557,682	(m) 7,914,693	Daily Volume	< 60 m <sup>3</sup> /d (combined total for all camp usage)	N/A	Daily	Requirement  Water License Part B, Item 5 Part I, Items 7, 19 and 20	Daily Volume Requirement for monthly reporting
MRY-2	Summer Water Supply for the Milne Inlet Camp at Phillips Creek	514,503	7,964,579	Daily Volume	< 60 m³/d (combined total for all camp usage)	N/A	Daily	Water License Part B, Item 5 Part I, Items 7, 19 and 20	Daily Volume Requirement for monthly reporting
MRY-3	Winter Water Supply for the Milne Inlet Camp at km 32 Lake (1)	521,714	7,951,862	Daily Volume	< 60 m <sup>3</sup> /d (combined total for all camp usage)	N/A	Daily	Water License Part B, Item 5 Part I, Items 7, 19 and 20	Daily Volume Requirement for monthly reporting
Unnamed	Water Supply for the Rail Camp at Unnamed Lake Adjacent to Camp	595,547	7,876,328	Daily Volume	< 60 m <sup>3</sup> /d (combined total for all camp usage)	N/A	Daily	Water License Part B, Item 5 Part I, Items 7, 19 and 20	Daily Volume Requirement for monthly reporting
Unnamed	Water Supply for the Steensby Inlet Camp at 3km Lake, 10 km Lake or Ocean	596,585	7,800,231	Daily Volume	< 60 m <sup>3</sup> /d (combined total for all camp usage)	N/A	Daily	Water License Part B, Item 5 Part I, Items 7, 19 and 20	Daily Volume Requirement for monthly reporting
Various	Water Supply for Exploration and Geotechnical Drilling at Various Named and Unnamed Sources Throughout the Project Area	Various locati downstream, i	ons upstream, and near-field.	Daily Volume	< 455 m <sup>9</sup> /d (combined total for all drilling usage)	N/A	Daily	Water License Part B, Item 5 Part I, Items 7, 19 and 20	Daily Volume Requirement for monthly reporting
MILNE-INF	Sewage Influent - WWTF at Milne Inlet Camp	Primary	Chamber	BOD5 Total suspended solids (TSS) Faecal coliforms pH Total Kjeldah Nitrogen (TKN) Ammonia-nitrogen Total phosphorus	N/A	N/A	Every 4 weeks during discharge	Baffinland Requirement	For information only; not reported
MILNE-RC1	Receiving waters of Milne Inlet, adjacent drainage ditch	TBD	TBD	BODs Total suspended solids (TSS) Faecal collforms pH Total Kjeldahl Nitrogen (TKN) Ammonia-nitrogen Total phosphorus	N/A	N/A	Every 4 weeks during discharge	Baffinland Requirement	For information only; not reported
MRY-INF	Sewage Influent - WWTF at Mary River Camp	Primary	Chamber	BODs Total suspended solids (TSS) Faecal coliforms pH Total Kjeldahl Nitrogen (TKN) Ammonia-nitrogen Total phosphorus	N/A	N/A	Every 4 weeks during discharge	Baffinland Requirement	For information only; not reported
Shear-RC1	Sheardown Lake in the vicinity of the sewage outfall	TBD	TBD	BODs Total suspended solids (TSS) Facad collforms pH Total Kjeldahi Nitrogen (TKN) Ammonia-nitrogen Total phosphorus Dissolved oxygen	N/A	N/A	Every 4 weeks during discharge	Baffinland Requirement	For information only; not reported
				BOD <sub>5</sub> TSS pH Faecel Coliforms Oil and Grease Volume	30 mg/L 35 mg/L 6.0 to 9.5 1,000 CFU/100 mL No visible sheen	N/A	Every 4 weeks during discharge; daily for volumes	Water License Part B, Item 5 Part D, Item 10 Part I, Items 3, 19 and 20	Daily Volume Requirement for monthly reporting
MRY-4	Mary River Camp sewage discharge at the WWTF	557,920	7,914,372	Total Kjeldahl Nitrogen (TKN) Ammonia-nitrogen Total phosphorus		N/A	Every 4 weeks during discharge	Baffinland Requirement	For information only; not reported
				Acute lethality to Rainbow Trout and Daphnia magna (Biological Test Methods EPS/1/RM/13 and EPS/1/RM/14)	Non-toxic	N/A	Once annually during open water	Water License Part B, Item 5 Part D, Item 12 Part I, Items 4, 19 and 20	Monthly report following testing; annual report
				BOD <sub>5</sub> TSS pH Faecel Coliforms Oil and Grease Volume	30 mg/L 35 mg/L 6.0 to 9.5 1,000 CFU/100 mL No visible sheen	N/A	Once prior to discharge and every 4 weeks thereafter; daily for volumes	Water License Part B, Item 5 Part D, Item 10 Part I, Items 3, 19 and 20	Daily Volume Requirement for monthly reporting
MRY-4a	Mary River Camp sewage discharge from the PWSPs	558,706	7,913,930	Total Kjeldahl Nitrogen (TKN) Ammonia-nitrogen Total phosphorus		N/A	Every 4 weeks during discharge	Baffinland Requirement	For information only; not reported
				Acute lethality to Rainbow Trout and Daphnia magna (Biological Test Methods EPS/1/RM/13 & EPS/1/RM/14)	Non-taxic	N/A	Once annually during open water	Water License Part B, Item 5 Part D, Item 12 Part I, Items 4, 19 and 20	Monthly report following testing; annual report

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# BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

#### COMPREHENSIVE ENVIRONMENTAL MONITORING PLAN

#### WATER QUALITY AND QUANTITY MONITORING LOCATIONS

Monitoring	Description	UTM Coordin	ates (NAD83)	Parameters	Maximum Amount/	Maximum Grab	Sampling	Monitoring and	Reporting
Location ID		Easting (m)	Northing (m)		Average Concentration	Concentration	Frequency	Reporting Requirement	Frequency
				BOD <sub>5</sub> TSS pH Faecel Coliforms Oil and Grease Volume	100 mg/L 120 mg/L 6.0 to 9.5 10,000 CFU/100 mL No visible sheen	N/A	Every 4 weeks during discharge; daily for volumes	Water License Part B, Item 5 Part D, Item 11 Part I, Items 3, 19 and 20	Daily Volume Requirement for monthly reporting
MRY-5	Milne Inlet Camp sewage discharge at the WWTF	503,462	7,975,764	Total Kjeldahl Nitrogen (TKN) Ammonia-nitrogen Total phosphorus		N/A	Every 4 weeks during discharge	Baffinland Requirement	For information only; not reported
				Acute lethality to Rainbow Trout and Daphnia magna (Biological Test Methods EPS/1/RM/13 and EPS/1/RM/14)	Non-toxic	N/A	Once annually during open water	Water License Part B, Item 5 Part D, Item 12 Part I, Items 4, 19 and 20	Monthly report following testing; annual report
				BOD <sub>5</sub> TSS pH Faecel Coliforms Oil and Grease Volume	100 mg/L 120 mg/L 6.0 to 9.5 10,000 CFU/100 mL No visible sheen	N/A	Once prior to discharge and every 4 weeks thereafter, daily for volumes	Water License Part B, Item 5 Part D, Item 11 Part I, Items 3, 19 and 20	Daily Volume Requirement for monthly reporting
MRY-5a	Milne Inlet Camp sewage discharge from the PWSP	503,344	7,976,118	Total Kjeldahl Nitrogen (TKN) Ammonia-nitrogen Total phosphorus		N/A	Every 4 weeks during discharge	Baffinland Requirement	For information only; not reported
				Acute lethality to Rainbow Trout and Daphnia magna (Biological Test Methods EPS/1/RM/13 and EPS/1/RM/14)	Non-toxic	N/A	Once annually during open water	Water License Part B, Item 5 Part D, Item 12 Part I, Items 4, 19 and 20	Monthly report following testing; annual report
MRY-6	Water collected within the Bulk Fuel Storage Facility at Mary River prior to release	558,186	7,914,780	Benzene Toluene Ethylbenzene Lead Oil and Grease	370 μg/L 2 μg/L 90 μg/L 1 μg/L 15,000 μg/L and no visible sheen	N/A	Monthly during removal of water	Water License Part B, Item 5 Part D, Item 17 Part I, Items 5, 19 and 20	Monthly report following testing; annual report
MRY-7	Water collected within the Bulk Fuel Storage Facility at Milne Inlet prior to release	503,309	7,976,097	Benzene Toluene Ethylbenzene Lead Oil and Grease	370 µg/L 2 µg/L 90 µg/L 1 µg/L 15,000 µg/L and no visible sheen	N/A	Monthly during removal of water	Water License Part B, Item 5 Part D, Item 17 Part I, Items 5, 19 and 20	Monthly report following testing; annual report
MRY-8	Minewater and surface drainage either pumped or released from the Hematite Open Pit				NO LO	NGER REQUIRED	2)		
MRY-9	Minewater and surface drainage either pumped or released from the Magnetite Open Pit <sup>(2)</sup>	563,239	7,914,596	Total Arsenic Total Copper Total Lead Total Nickel Total Zinc TSS Oil and Grease pH (of waste discharged)	As 0.5 mg/L Cu 0.30 mg/L Pb 0.20 mg/L Ni 0.50 mg/L Zn 0.50 mg/L TSS 15 mg/L O&G No visible sheen pH Between 6.0 and 9.5	As 1.00 mg/L Cu 0.60 mg/L Pb 0.40 mg/L Ni 1.00 mg/L Zn 1.00 mg/L TSS 50.0 mg/L	Monthly during periods of flow	Water License Part B, Item 5 Part D, Item 9 Part I, Items 5, 19 and 20	Monthly report following testing; annual report
MRY-10	Surface discharge from the weathered ore stockpile	563,349	7,915,262	Total Arsenic Total Copper Total Lead Total Nickel Total Zinc TSS Oil and Grease pH (of waste discharged)	As 0.5 mg/L Cu 0.30 mg/L Pb 0.20 mg/L Ni 0.50 mg/L Zn 0.50 mg/L TSS 15 mg/L O&G No visible sheen pH Between 6.0 and 9.5	As 1.00 mg/L Cu 0.60 mg/L Pb 0.40 mg/L Ni 1.00 mg/L Zn 1.00 mg/L TSS 50.0 mg/L	Seepage / surface run off - monthly during periods of flow	Water License Part B, Item 5 Part D, Item 9 Part I, Items 5, 19 and 20	Monthly report following testing: annual report
MRY-11	Surface discharge from the lump ore and fine ore stockpiles at the processing area	560,987	7,913,364	Total Arsenic Total Copper Total Lead Total Nickel Total Nickel Total Zinc TSS Oil and Grease pH (of waste discharged)	As 0.5 mg/L Cu 0.30 mg/L Pb 0.20 mg/L Ni 0.50 mg/L Zn 0.50 mg/L TSS 15 mg/L O&G No visible sheen pH Between 6.0 and 9.5	As 1.00 mg/L Cu 0.60 mg/L Pb 0.40 mg/L Ni 1.00 mg/L Zn 1.00 mg/L TSS 50.0 mg/L	Seepage / surface run off - monthly during periods of flow	Water License Part B, Item 5 Part D, Item 9 Part I, Items 5, 19 and 20	Monthly report following testing: annual report
MRY-12	Surface discharge from the lump ore	12a - 503,356	7,976,452	Total Arsenic Total Copper Total Lead Total Nickel	As 0.5 mg/L Cu 0.30 mg/L Pb 0.20 mg/L Ni 0.50 mg/L	As 1.00 mg/L Cu 0.60 mg/L Pb 0.40 mg/L	Seepage / surface run off - monthly during periods of	Water License Part B, Item 5	Monthly report following testing;
	and fine ore stockpiles at Milne Inlet	12b - 503,522	7,976,399	Total Zinc TSS Oil and Grease pH (of waste discharged)	Zn 0.50 mg/L TSS 15 mg/L O&G No visible sheen pH Between 6.0 and 9.5	Ni 1.00 mg/L Zn 1.00 mg/L TSS 50.0 mg/L	flow	Part D, Item 9 Part I, Items 5, 19 and 20	annual report
Landfill Down Gradient	Surface discharge downstream of landfill	560,756	7,912,496	Total Arsenic Total Copper Total Lead Total Nickel Total Zinc TSS Oil and Grease pH	TBD	TBD	TBD	N/A	TBD
Exploration Drill Monitoring		Various location downstream, a		Major ions, total metals, general parameters, flow.	N/A	N/A	Weekly to monthly during drilling.	Annual NIRB Report	Once per year.

- Notes.

  1. Shaded monitoring location ID cells denote Water Licence Monitoring Locations.

  2. Shaded parameters cells denote required parameters to be reported under the Water Licence.

  3. This location is referenced as Km 60 Lake in the Water Licence. This is in error.

  4. There is actually only one but & sample pit now.

  5. More frequent sampling of MRY-4, 4a, 5, 5a, billine-INFL, and MRY-INFL may be undertaken for the purpose of internal process management and early detection of potential upset conditions.

  6. Landfill Down Gradient Sampling location to be finalized after next field visits by INAC Water Resources and QIA Inspectors.

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